STAUFF®

Hose Connectors



High-Pressure Hose Connectors



Catalogue 4

STAUFF Hose Connectors

Germany

Walter Stauffenberg GmbH & Co. KG
Im Ehrenfeld 4
58791 Werdohl

www.stauff.com

STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorised distributors and representatives in all major industrial regions of the world.

You can find detailed contact information on the last two pages of this product catalogue or at www.stauff.com/contact.

Please note: Unless otherwise stated, all data and figures in this product catalogue are approximate values and are only valid as references, which are not binding (also in respect to any third parties' rights of protection) and thus do not release the customer / user from checking and testing the suitability of the products for the foreseen purposes. Therefore, data and figures can only be used in a limited sense for construction purposes.

The application of the products is beyond the control possibilities of the manufacturer and, therefore, is exclusively subject to the responsibility of the customer / user.

In the event that a liability is nevertheless considered, any compensation will be limited to the value of the goods supplied by the manufacturer and used by the customer / user. As a matter of course, the manufacturer guarantees the perfect quality of all products in accordance with the General Terms and Conditions of Business and Sale.

Subject to modifications due to the ongoing development and improvement of the products.

With the publication of this product catalogue, previous editions are no longer valid.

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Catalogue 1
STAUFF Clamps

- Block Clamps
- Special Clamps
- Light Series Clamps
- Saddle Clamps
- U-Bolt Clamps
- Metal Clamps
- Construction Series



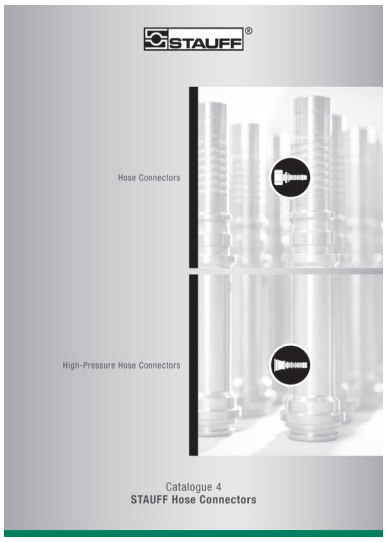
Catalogue 2
STAUFF Connect

- Tube Connectors
- Assembly Tools and Devices



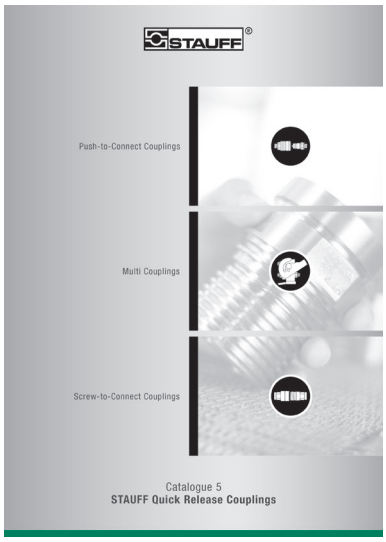
Catalogue 3
STAUFF Flanges

- SAE Flanges
- Gear Pump Flanges



Catalogue 4
STAUFF Hose Connectors

- Hose Connectors
- High-Pressure Hose Connectors



Catalogue 5
STAUFF Quick Release Couplings

- Push-to-Connect Couplings
- Multi Couplings
- Screw-to-Connect Couplings



Catalogue 6
STAUFF Valves

- Two-Way Ball Valves
- Multi-Way Ball Valves
- Flow Control and Check Valves
- Gauge Isolator Valves



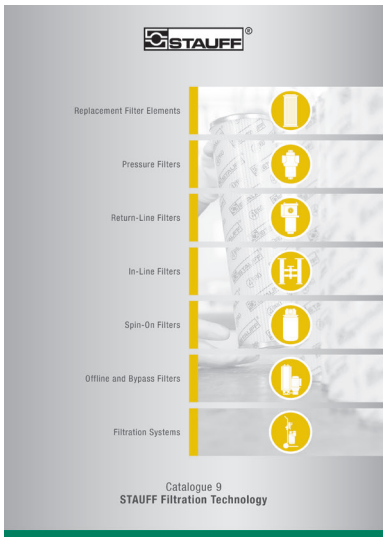
Catalogue 7
STAUFF Test

- Test Couplings
- Test Adaptors
- Test Hoses and Connectors



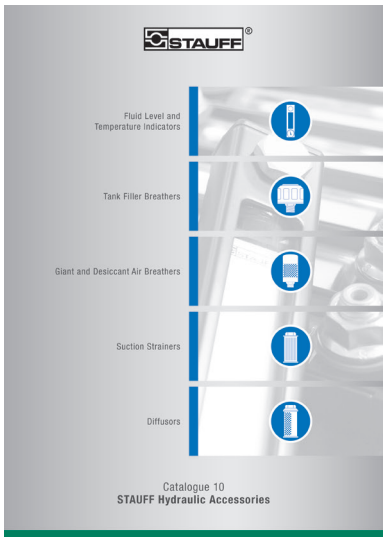
Catalogue 8
STAUFF Diagtronics

- Pressure Gauges
- Hydraulic Testers
- Oil Analysis Equipment



Catalogue 9
STAUFF Filtration Technology

- Replacement Filter Elements
- Pressure Filters
- Return-Line Filters
- In-Line Filters
- Spin-On Filters
- Offline and Bypass Filters
- Filtration Systems



Catalogue 10
STAUFF Hydraulic Accessories

- Fluid Level and Temperature Indicators
- Tank Filler Breathers
- Giant and Desiccant Air Breathers
- Suction Strainers
- Diffusors

For more than 50 years, the companies of STAUFF Group have been developing, manufacturing and distributing pipework equipment and hydraulic components for mechanical and plant engineering and for service and industrial maintenance.

In addition to mobile and industrial hydraulic machinery, typical applications also include commercial and special purpose vehicles, rail transportation and energy technology. Likewise, STAUFF products are used in marine, oil and gas applications and in the process, food and chemical industries.

The overall range currently includes about 50000 standard products as well as numerous special and system solutions according to customer's specifications or based on our in-house development.

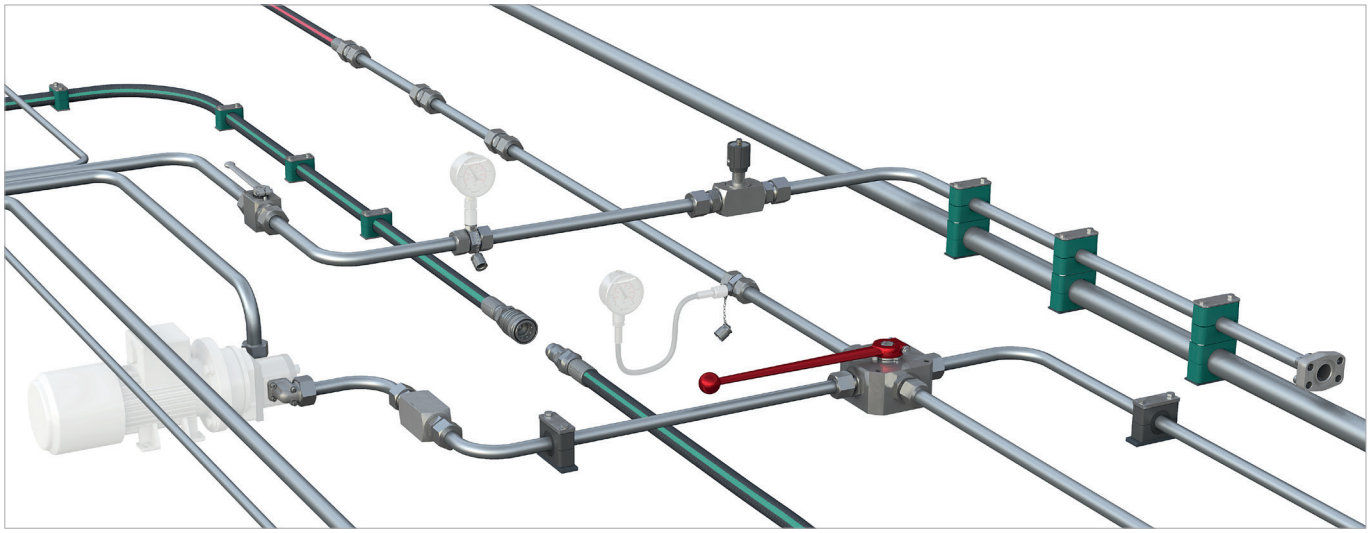
All STAUFF products undergo relevant testing in accordance with international regulations and are governed by the high standards of the in-house quality management system. Furthermore, many items have received certifications and approvals from various international institutes, organisations and authorities who have independently confirmed the quality and performance of the products.

Wholly-owned manufacturing, sales and service facilities in 18 countries and a tight global network of authorised distribution partners ensure high presence and service paired with a maximum of availability.

Lloyd's Register LRQA

Quality Management – ISO 9001:2015
Environmental Management – ISO 14001:2015
Safety Management – ISO 45001:2018
Energy Management – ISO 50001:2018

STAUFF LINE Components



With the seven dedicated **STAUFF Line** product groups

- **STAUFF Clamps**
- **STAUFF Connect**
- **STAUFF Flanges**
- **STAUFF Hose Connectors**
- **STAUFF Quick Release Couplings**
- **STAUFF Valves**
- **STAUFF Test**

from own, in-house development and manufacturing, the companies of the STAUFF Group provide a comprehensive range of components for fastening and connecting pipes, tubes and hoses for mobile and industrial hydraulic applications and many other industries.

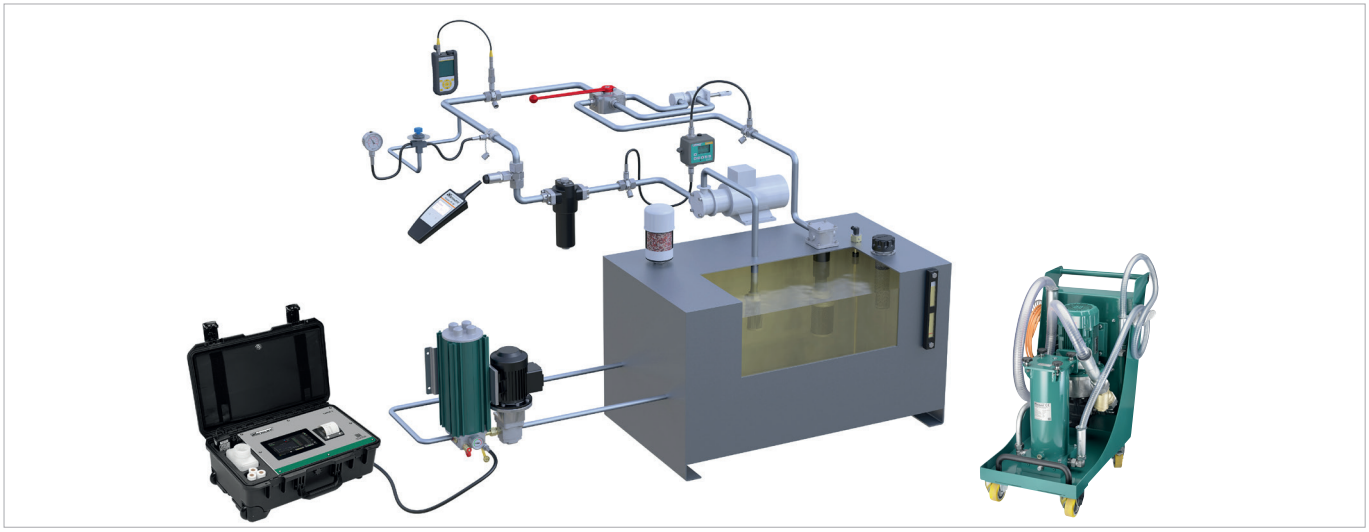
The portfolio is completed by components for shutting-off, regulating, throttling and measuring fluid media.

In order to perfectly match each other, STAUFF Line products are designed and offered on a high, uniform level of quality. A large proportion of the range made from steel comes as standard with the premium STAUFF Zinc/Nickel surface coating, which is also optionally available for many of the other components.

This coating offers the most reliable surface protection far beyond the previous market standards – even after transport, handling and assembly of the components – and meets all current legal requirements.

If desired, Original Equipment Manufacturers can be supported with value-added services, from **technical consultation** to **pre-assembly, assembly and kitting** as well as **logistics services**:

- Support with the **selection of suitable standard components** and ordering options; provision of **customised solutions** according to customer's specifications or based on our in-house development – from prototyping to large scale production
- **Analysis and optimization** of existing and design and developments of new systems aimed at increasing the efficiency and performance of machines and equipment and creating value for customers by reducing the total cost
- **Pre-assembly, assembly and kitting** of individual components to customer-specific system modules
- Individually coordinated **procurement solutions** (e.g. web shop and electronic data interchange) and **supply models** (e.g. from warehousing of customised components to Kanban logistics and just-in-time delivery of pre-fabricated system modules to the assembly lines of the customers) aimed at optimising material flows



Aligned with the needs of the market, the product groups

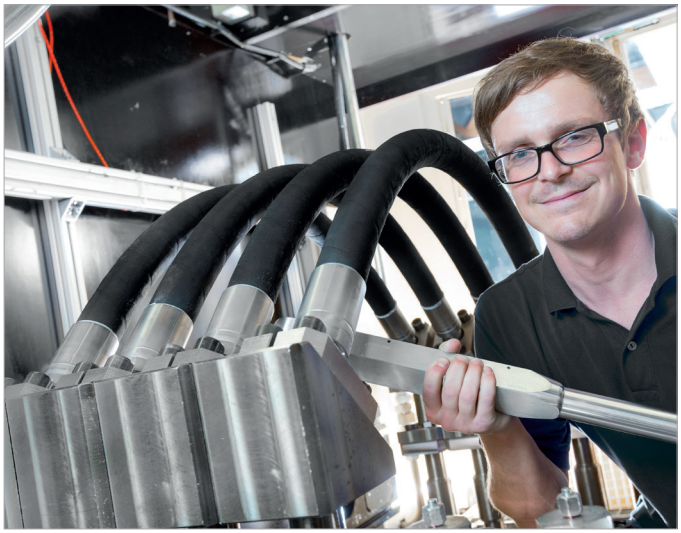
- **STAUFF Test**
- **STAUFF Diagtronics**
- **STAUFF Filtration Technology**
- **STAUFF Hydraulic Accessories**

include a comprehensive range of analogue and digital measuring equipment and devices, filtration systems and replacement filter elements as well as accessories for the construction of tanks, reservoirs, power packs and gear boxes in mobile and industrial hydraulics.

The offer is completed by relevant value-added services:

- Support with the **selection of suitable components** and ordering options; provision of **customised solutions** according to customer's specifications or based on our in-house development – from prototyping to large scale production
- Analysis of existing hydraulic circuits aimed at filtration systems, tank components and monitoring devices that perfectly match to the specific requirements, and developing integrated concepts to increase the efficiency and performance of machines and equipment
- Individually coordinated **procurement solutions** and **supply models**







STAUFF Hose Connectors

The STAUFF **ECOVOS** system of hose connectors enables crimping of many different hose types with only one hose insert profile, which results in an immense reduction of endless product varieties.

The use of identical parts with **ECOVOS** means a reduction of individual components by approximately 45 per cent.

ECOVOS^{+}, the mobile interlocking protection from STAUFF, turns standard ECOVOS components into interlock hose connectors in no time at all, thereby saving inventory costs and increasing economical efficiency.

For larger requirements, **ECOVOS** hose connectors with interlocking protection can also be manufactured as single parts with integrated securing rings.

The **ECOVOS VA** range provides the system of hose connectors in Stainless Steel.

MULTIVOS is the name of the STAUFF range of high-pressure hose connectors which offers customers the opportunity to use two types of hoses (R15 and 4SH) with only one hose insert profile.

POWERVOS is an advanced development of the **MULTIVOS** range. This product series was designed especially for hammer/breaker operation in construction equipment for use in quarries.

POWERVOS is especially designed and constructed using high-performance materials to withstand high impulses. The hose connectors are suitable for use with hose types 4SH/AS and R15/AS.





STAUFF Zinc/Nickel Coating



Layers
- Sealing
- Passivation
- Zinc/Nickel
- Steel

The STAUFF Zinc/Nickel Coating offers excellent surface protection – even after transport, handling and assembly. This was confirmed by testing in the salt-spray chamber according to DIN EN ISO 9227.

Users across all industries and applications benefit from sophisticated technology, which has been developed for and used by the very demanding automotive industry for many years now and that is already the proven standard for a large proportion of STAUFF hose connectors since 2007.

- At least 1200 hours (before crimping) resistance to red rust / base metal corrosion in the salt-spray chamber according to DIN EN ISO 9227
- White rust occurs only by way of a slight grey haze
- Free of hexavalent chrome Cr(VI)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- REACH compliant according to 1907/2006/EC (Registration, Evaluation, Authorisation and Restriction of Chemicals)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)
- Appealing colour scheme with a bright semi-gloss surface finish
- Significantly reduced tendency to corrosion by contact with other metals (such as Aluminium and Stainless Steel)
- Improved abrasion resistance due to the ductility / plastic deformability of the coating
- Little to no risk of triggering allergies – nickel release is down to only a fraction of the statutory limits relating to objects which come into direct and prolonged contact with the skin (independent results of the reference test method according DIN EN 1811 are available on request)
- Good paint adhesion properties
- Resistance against all commonly used hydraulic media



www.stauff.com/catalogues

The STAUFF online catalogue centre at www.stauff.com/catalogues provides fast and direct access to digital versions of this as well as other STAUFF product catalogues in all available languages.

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* may require a suitable app



www.stauff.com

With the STAUFF Digital Platform available at www.stauff.com, commercial customers and users of STAUFF products can not only inform themselves in all detail about the 50000 components typically available from stock, but also directly purchase these online without complex registration.

General information about the companies of STAUFF Group, latest business and product news as well as complete global contact details also be available.

Main Functionalities of the STAUFF Digital Platform:

Around the clock
Check stock availability and pricing for STAUFF products in real time

Cross references
Search by article designations of other manufacturers / suppliers

Live chat
Get directly in touch with the STAUFF customer service and sales team

CAD database
Download 3D models and 2D drawings for STAUFF products

Advantages as a Registered User of the STAUFF Digital Platform:

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Taking customer-specific pricing and delivery conditions into account

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Quick ordering by entering article number, quantity and requested delivery date

File upload
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Notepad function
Create project lists to save interesting products for later

www.stauff.com/cad

Immediate access to and free download of 3D models and 2D drawings for a growing number of STAUFF products

www.filterinterchange.com

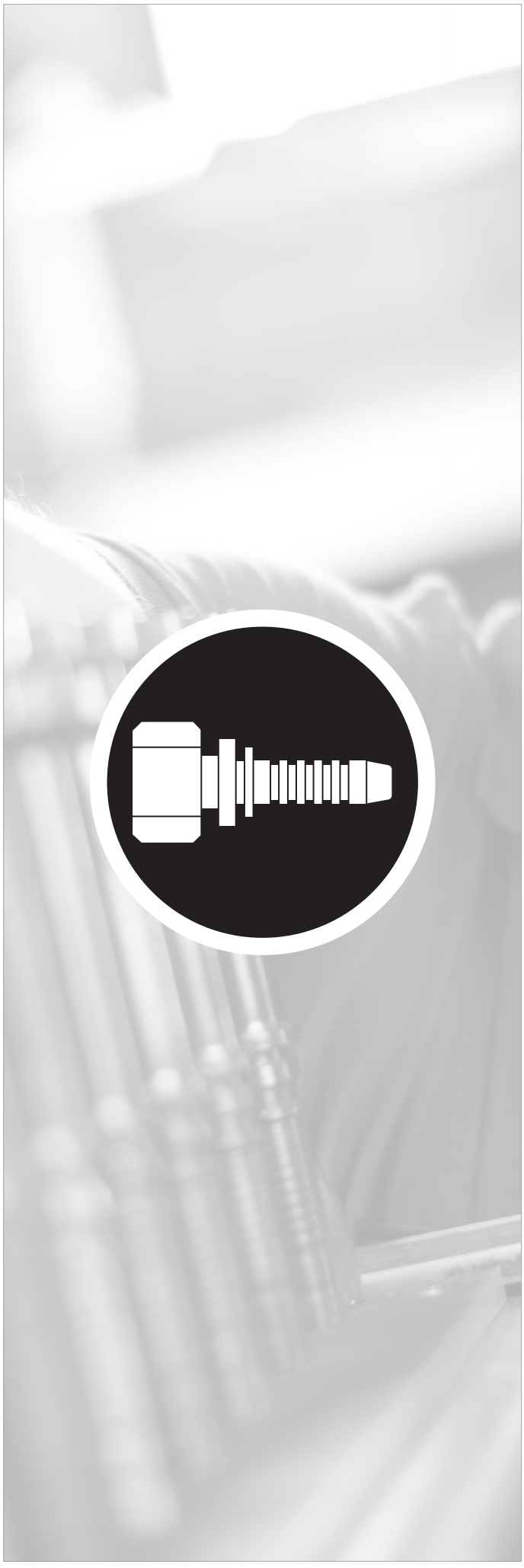
Online database for the quick and easy identification and interchange of almost all common brands and types of replacement filter elements

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Skive/Non-Skive Swage Ferrule
for Braided and Spiral Hose 14
Series 15000 / UVOS



Non-Skive Swage Ferrule for Braided Hose 16
Series 15011



Skive/Non-Skive Swage Ferrule for Braided Hose 17
Series 15021



Skive Swage Ferrule for Braided and Spiral Hose 18
Series 15031



Non-Skive Swage Ferrule for Compact Braided Hose 19
Series 15211 / AGRIVOS



Non-Skive Swage Ferrule for Compact Braided Hose 20
Series 15311 / CVOS



Non-Skive Swage Ferrule for Hose with Textile Insert 21
Series 15330



Straight Insert
with Male Metric Thread and 24° Conical Bore 22
CEL (Light Series)



Straight Insert
with Male Metric Thread and 24° Conical Bore 23
CES (Heavy Series)



Straight Insert
with Female Metric Nut Thread and 24° Taper / O-Ring 24
DKOL (Light Series)



45° Elbow Insert
with Female Metric Nut Thread and 24° Taper / O-Ring 26
DKOL 45° (Light Series)



90° Elbow Insert
with Female Metric Nut Thread and 24° Taper / O-Ring 28
DKOL 90° (Light Series)



Straight Insert
with Female Metric Nut Thread and 24° Taper / O-Ring 30
DKOS (Heavy Series)



45° Elbow Insert
with Female Metric Nut Thread and 24° Taper / O-Ring 32
DKOS 45° (Heavy Series)



90° Elbow Insert
with Female Metric Nut Thread and 24° Taper / O-Ring 34
DKOS 90° (Heavy Series)

A


Straight Insert
with Female Metric Nut Thread and Metal Seat
DKK 44


45° Elbow Insert
with Female Metric Thread and Metal Seat
DKK 45° 45


90° Elbow Insert
with Female Metric Thread and Metal Seat
DKK 90° 46


Straight Insert
with Male BSPP Thread and 60° Conical Bore
AGR 47


Straight Insert
with Male BSPP Thread
AGRF 48


Straight Insert
with Male BSPT Thread
AGRK 49


Straight Insert
with Male UN/UNF Thread and 74° Taper
AGJ 50


Straight Insert
with Male BSPP Thread and 60° Taper
AGJG 51


45° Elbow Insert
with Male BSPP Thread and 60° Taper
AGJG 45° 52


90° Elbow Insert
with Male BSPP Thread and 60° Taper
AGJG 90° 53


Straight Insert
with Male Metric Thread and 60° Taper
AGJM 54


90° Elbow Insert
with Male Metric Thread and 60° Taper
AGJM 90° 55


Straight Insert
with Male NPTF Thread and 60° Conical Bore
AGN 56


Straight Insert
with O-Ring Face Seal Connection
ORFS 57


Straight Insert
with SAE Flange Adaptor
SFL (3000 PSI Series) 58


45° Elbow Insert
with SAE Flange Adaptor
SFL 45° (3000 PSI Series) 59


90° Elbow Insert
with SAE Flange Adaptor
SFL 90° (3000 PSI Series) 60


Straight Insert
with SAE Flange Adaptor
SFS (6000 PSI Series) 61


45° Elbow Insert
with SAE Flange Adaptor
SFS 45° (6000 PSI Series) 62


90° Elbow Insert
with SAE Flange Adaptor
SFS 90° (6000 PSI Series) 63


Straight Insert
with Female BSPP Thread and 60° Taper
DKR 64


45° Elbow Insert
with Female BSPP Thread and 60° Taper
DKR 45° 65


90° Elbow Insert
with Female BSPP Thread and 60° Taper
DKR 90° 66


Straight Insert
with Female BSPP Thread
DKRF 67


90° Elbow Insert
with Female BSPP Thread
DKRF 90° 68


Straight Insert
with Female UN/UNF Thread and 74° Conical Bore
DKJ 69


45° Elbow Insert
with Female UN/UNF Thread and 74° Conical Bore
DKJ 45° 70


90° Elbow Insert
with Female UN/UNF Thread and 74° Conical Bore
DKJ 90° 71


Straight Insert
with Female BSPP Thread and 60° Conical Bore
DKJG 72


45° Elbow Insert
with Female BSPP Thread and 60° Conical Bore
DKJG 45° 73


90° Elbow Insert
with Female BSPP Thread and 60° Conical Bore
DKJG 90° 74


Straight Insert
with Female Metric Thread and 60° Conical Bore
DKJM 75


45° Elbow Insert
with Female Metric Thread and 60° Conical Bore
DKJM 45° 76


90° Elbow Insert
with Female Metric Thread and 60° Conical Bore
DKJM 90° 77


Straight Insert
with Female UN/UNF Thread for O-Ring Face Seal Connection
ORS 78


45° Elbow Insert
with Female UN/UNF Thread for O-Ring Face Seal Connection
ORS 45° 79


90° Elbow Insert
with Female UN/UNF Thread for O-Ring Face Seal Connection
ORS 90° 80


Straight Insert
with Pressure Washer Connector
WCS 81


Straight Insert
with Pressure Washer Connector
WCC 81


Straight Metric Banjo Insert
RGN 82


Straight Imperial Banjo Insert
RGNG 83

A

UVOS Skive/Non-Skive Swage Ferrule for Braided and Spiral Hose

The patented STAUFF UVOS system contains a comprehensive range of skive/non-skive swage ferrules for braided and spiral hose according to EN 853, EN 854, EN 857 and EN 856.

It is available for standard hose sizes from DN 06 to DN 12 (equals 1/4" to 1/2" and -04 to -08) with only one swage ferrule required per nominal size.

- Convincingly simple and extremely easy use
- Flow cross section enlarged by the patented "self-adjusting" design of the ferrule
- Preventing the hose insert from collapsing and constricting the flow due to the ability to adapt to the hose and hose insert parameters
- Providing the prerequisite for reducing the wall thickness of the hose insert and consequently achieving a substantially larger clear flow cross section in the constriction zone
- Resulting in a significant improvement in hydraulic output while achieving excellent connection stability without creating tension in the connection zone which exceeds the yield strength of the hose insert material

Skive



Non-Skive



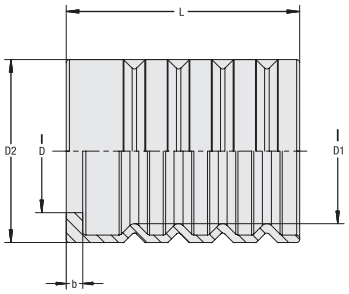
EN 853	EN 854	EN 857	EN 856
1SN/2SN 1ST/2ST (skive)	**2TE/3TE**	**1SC/2SC**	**4SP**

UVOS Skive/Non-Skive Swage Ferrule for Braided and Spiral Hose Series 15000

Suitable for 1SN, 2SN, 1ST, 2ST, 1SC, 2SC, 1SN-K, 2SN-K, 2TE, 3TE, 4SP
Standards EN 853, EN 854, EN 856, EN 857

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Maximum working pressures depending on the type of the hose connector and the hose type.



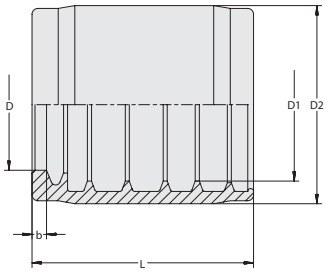


Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
06	1/4"	-04	12,5	15,6	20,6	31,0	2,4	1,9	HF-2000-06-W3
			.49	.61	.81	1.22	.09	4.19	
08	5/16"	-05	14,0	17,5	22,5	31,0	2,4	2,2	HF-2000-08-W3
			.55	.69	.89	1.22	.09	4.85	
10	3/8"	-06	15,0	20,0	26,0	34,0	2,6	3,3	HF-2000-10-W3
			.59	.79	1.02	1.34	.10	7.28	
12	1/2"	-08	19,5	23,0	29,0	37,0	2,6	3,9	HF-2000-12-W3
			.77	.91	1.14	1.46	.10	8.60	

A

Non-Skive Swage Ferrule for Braided Hose
Series 15011





Suitable for 1SN, 2SN, 2SC, 2SN-K
Standards EN 853, EN 857

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Maximum working pressures depending on the type of the hose connector and the hose type.

Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
05	1/8"	-03	9,8	12,5	17,0	27,3	2,0	1,7	HF-1001-05-W3
			.39	.49	.67	1.07	.08	3.64	
05	1/8"	-03	9,8	14,0	18,6	27,3	2,0	2,0	HF-1002-05-W3
			.39	.55	.73	1.07	.08	4.30	
06	1/4"	-04	11,8	15,7	21,0	31,0	2,5	2,6	HF-1000-06-W3
			.46	.62	.83	1.22	.10	5.62	
08	5/16"	-05	13,2	17,3	22,5	31,0	2,5	2,7	HF-1000-08-W3
			.52	.68	.89	1.22	.10	5.84	
10	3/8"	-06	15,5	19,8	26,5	33,0	2,5	4,7	HF-1000-10-W3
			.61	.78	1.04	1.30	.10	10.25	
12	1/2"	-08	19,2	23,0	30,0	36,0	2,5	5,7	HF-1000-12-W3
			.76	.91	1.18	1.42	.10	12.57	
16	5/8"	-10	22,5	26,2	34,0	38,0	2,5	7,8	HF-1000-16-W3
			.89	1.03	1.34	1.50	.10	17.09	
19	3/4"	-12	25,5	30,1	38,0	44,0	3,0	10,4	HF-1000-19-W3
			1.00	1.19	1.50	1.73	.12	22.82	
25	1"	-16	32,8	38,8	47,0	52,0	3,7	16,4	HF-1000-25-W3
			1.29	1.53	1.85	2.05	.15	36.16	
31	1 1/4"	-20	40,5	49,3	57,0	60,0	4,0	21,1	HF-1000-31-W3
			1.59	1.94	2.24	2.36	.16	46.53	
38	1 1/2"	-24	46,6	55,8	65,0	73,0	4,3	37,5	HF-1000-38-W3
			1.83	2.20	2.56	2.87	.17	82.58	
51	2"	-32	58,9	68,5	78,0	80,0	4,3	50,0	HF-1000-51-W3
			2.32	2.70	3.07	3.15	.17	110.25	

Related Products and Accessories



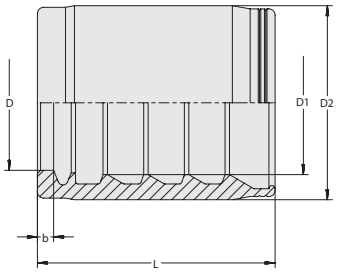
Test Mandrels Pages 185-187

Skive/Non-Skive Swage Ferrule for Braided Hose Series 15021

Suitable for 1SN, 2SC, 2SN-K, 1SC, 1SN-K
Standards EN 853, EN 857

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Maximum working pressures depending on the type of the hose connector and the hose type.





Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
05	1/8"	-03	9,4	10,9	17,3	27,3	2,0	2,4	HF-3001-05-W3
			.37	.43	.68	1.07	.08	5.29	
06	1/4"	-04	11,0	13,2	20,0	31,0	2,5	3,1	HF-2001-06-W3
			.43	.52	.79	1.22	.10	6.84	
08	5/16"	-05	12,6	15,5	20,6	31,0	2,6	2,55	HF-2001-08-W3
			.50	.61	.81	1.22	.10	5.62	
10	3/8"	-06	14,1	16,6	23,6	33,0	2,5	4,3	HF-2001-10-W3
			.56	.65	.93	1.30	.10	9.37	
12	1/2"	-08	17,6	19,5	27,0	35,0	2,5	5,6	HF-2001-12-W3
			.69	.77	1.06	1.38	.10	12.35	
16	5/8"	-10	21,6	23,0	31,0	38,0	2,6	7,5	HF-2001-16-W3
			.85	.91	1.22	1.50	.10	16.54	
19	3/4"	-12	24,5	26,8	35,0	44,0	3,0	10,3	HF-2001-19-W3
			.96	1.06	1.38	1.73	.12	22.60	
25	1"	-16	30,4	34,1	42,0	52,0	3,7	14,3	HF-2001-25-W3
			1.20	1.34	1.65	2.05	.15	31.42	
38	1 1/2"	-24	44,4	51,3	62,0	68,0	4,3	42,4	HF-2001-38-W3
			1.75	2.02	2.44	2.68	.17	93.38	
51	2"	-32	56,7	64,0	75,0	80,0	4,3	62,0	HF-2001-51-W3
			2.23	2.52	2.95	3.15	.17	136.60	

Related Products and Accessories

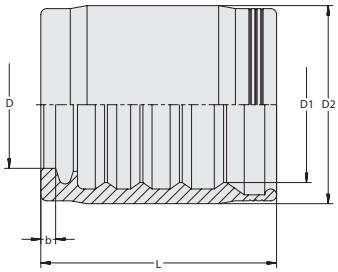


Test Mandrels Pages 185-187

A

Skive Swage Ferrule for Braided and Spiral Hose
Series 15031





Suitable for 2SN, SPC3, 4SP
4SH (DN 19 to DN 31)
Standards EN 853, EN 856

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Maximum working pressures depending on the type of the hose connector and the hose type.

Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
05	1/8"	-03	9,4	12,3	19,0	27,3	2,0	2,8	HF-3002-05-W3
			.37	.48	.75	1.07	.08	6.17	
06	1/4"	-04	10,2	15,5	22,0	34,0	2,5	4,1	HF-3000-06-W3
			.40	.61	.87	1.34	.10	8.93	
08	5/16"	-05	12,7	17,2	23,0	31,0	2,5	3,45	HF-3000-08-W3
			.50	.68	.91	1.22	.10	7.61	
10	3/8"	-06	14,5	18,9	26,0	38,0	2,5	5,5	HF-3000-10-W3
			.57	.74	1.02	1.50	.10	12.13	
12	1/2"	-08	18,5	22,2	30,0	40,0	2,5	7,5	HF-3000-12-W3
			.73	.87	1.18	1.57	.10	16.54	
16	5/8"	-10	21,6	26,4	33,6	40,0	2,5	8,3	HF-3000-16-W3
			.85	1.04	1.32	1.57	.10	18.30	
19	3/4"	-12	25,0	30,2	39,0	50,0	3,0	15,3	HF-3000-19-W3 [1]
			.98	1.19	1.54	1.97	.12	33.63	
25	1"	-16	30,9	36,7	46,0	60,0	3,7	21,8	HF-3000-25-W3 [1]
			1.22	1.44	1.81	2.36	.15	48.07	
31	1 1/4"	-20	38,8	47,0	57,0	65,0	4,0	33,4	HF-3000-31-W3 [1]
			1.53	1.85	2.24	2.56	.16	73.54	
38	1 1/2"	-24	44,4	53,7	65,0	73,0	4,3	51,9	HF-3000-38-W3
			1.75	2.11	2.56	2.87	.17	114.33	
51	2"	-32	57,3	66,6	78,0	80,0	4,3	68,4	HF-3000-51-W3
			2.26	2.62	3.07	3.15	.17	150.71	

[1] Approved for use with spiral hose 4SH according to EN 856.

Related Products and Accessories



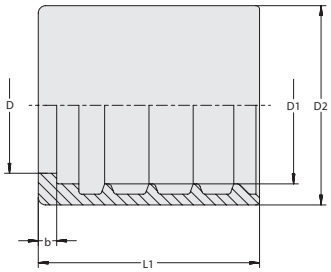
Test Mandrels Pages 185-187

AGRIVOS Non-Skive Swage Ferrule for Compact Braided Hose Series 15211

Suitable for 2SC, 2SN-K
Standard EN 857
Pressure Level Isobaric 250 bar / 25 MPa / 3625 PSI

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Maximum working pressures depending on the type of the hose connector and the hose type.





Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
06	1/4“	-04	11,4	14	18,8	25,0	2,5	1,95	HF-1003-06-W3
			.45	.55	.74	.98	.10	4.30	
08	5/16"	-05	13,6	15,8	20,6	25,0	2,5	2,1	HF-1003-08-W3
			.54	.62	.81	.98	.10	4.63	
10	3/8"	-06	15,0	18,0	23,6	26,5	2,5	3,1	HF-1003-10-W3
			.59	.71	.93	1.04	.10	6.84	
12	1/2"	-08	18,4	21,3	27,0	30,0	2,5	3,8	HF-1003-12-W3
			.72	.84	1.06	1.18	.10	8.27	

Related Products and Accessories

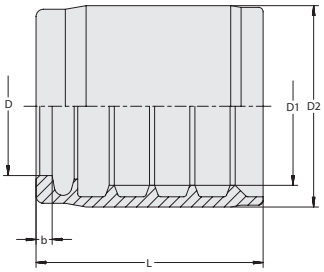


Test Mandrels Pages 185-187

A

CVOS Non-Skive Swage Ferrule for Compact Braided Hose Series 15311





Suitable for 1SC, 2SC, 1SN-K, 2SN-K
Standard EN 857

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Maximum working pressures depending on the type of the hose connector and the hose type.

Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
06	1/4“	-04	11,2	14,5	19,0	26,0	2,2	1,7	HF-1004-06-W3
			.44	.57	.75	1.02	.09	3.75	
08	5/16"	-05	13,2	16,4	21,0	26,0	2,2	2,0	HF-1004-08-W3
			.52	.65	.83	1.02	.09	4.30	
10	3/8"	-06	15,0	18,0	24,0	27,5	2,2	3,2	HF-1004-10-W3
			.59	.71	.94	1.08	.09	7.06	
12	1/2"	-08	18,9	21,6	28,5	31,0	2,2	3,6	HF-1004-12-W3
			.74	1.12	1.12	1.22	.09	7.83	

Related Products and Accessories



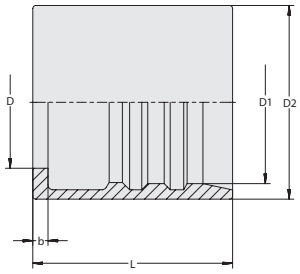
Test Mandrels Pages 185-187

Non-Skive Swage Ferrule for Hose with Textile Insert Series 15330

Suitable for 2TE, 3TE
Standard EN 854

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Maximum working pressures depending on the type of the hose connector and the hose type.





Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
05	1/8"	-03	9,8	12,5	17,0	27,3	2,0	1,65	HF-1001-05-W3
			.39	.49	.67	1.07	.08	3.64	
05	1/8"	-03	9,8	14,0	18,6	27,3	2,0	2,0	HF-1002-05-W3
			.39	.55	.73	1.07	.08	4.30	
06	1/4"	-04	11,6	15,3	19,0	28,0	2,4	1,85	HF-1005-06-W3
			.46	.60	.75	1.10	.09	4.08	
08	5/16"	-05	12,8	17,2	22,3	30,2	2,5	2,9	HF-1005-08-W3
			.50	.68	.88	1.19	.10	6.39	
10	3/8"	-06	14,9	19,2	23,0	29,5	2,4	2,5	HF-1005-10-W3
			.59	.76	.91	1.16	.09	5.51	
12	1/2"	-08	18,5	23,0	27,0	31,0	2,5	3,1	HF-1005-12-W3
			.73	.91	1.06	1.22	.10	6.84	
16	5/8"	-10	21,8	26,9	32,0	33,0	2,5	5,3	HF-1005-16-W3
			.86	1.06	1.26	1.30	.10	11.69	
19	3/4"	-12	24,6	29,9	35,0	37,5	3,0	6,7	HF-1005-19-W3
			.97	1.18	1.38	1.48	.12	14.66	
25	1"	-16	30,8	37,2	42,0	45,5	3,4	9,8	HF-1005-25-W3
			1.21	1.46	1.65	1.79	.13	21.50	
31	1 1/4"	-20	37,9	43,5	48,0	55,0	3,8	12,8	HF-1005-31-W3
			1.49	1.71	1.89	2.17	.15	28.22	
51	2"	-32	56,8	64,5	75,9	78,5	4,0	61,5	HF-1005-51-W3
			2.24	2.54	2.99	3.09	.16	135.50	

Related Products and Accessories

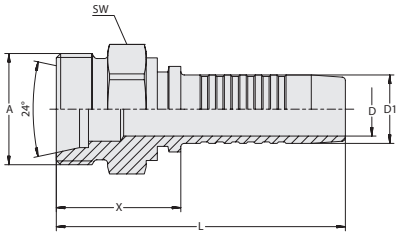


Test Mandrels Pages 185-187

A

Straight Insert with Male Metric Thread and 24° Conical Bore
Type CEL (Light Series)





Connection Type	Male Metric Thread
Sealing Type	24° Conical Bore (Shape W acc. to DIN 3861)
Standard	ISO 8434-1
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
05	1/8''	-03	M12x1,5	-03	2,9	5,1	22,0	47,0	14,0	1,8	HCS-05-CE-06L-M-W3
					.11	.20	.87	1.85	.55	3.97	
06	1/4''	-04	M14x1,5	-04	3,9	6,7	23,5	53,5	14	2,3	HCS-06-CE-08L-M-W3
					.15	.26	.93	2.11	.55	5.07	
06	1/4''	-04	M12x1,5	-03	3,9	6,7	23,5	53,5	14	2,2	HCS-06-CE-06L-M-W3
					.15	.26	.93	2.11	.55	4.85	
06	1/4''	-04	M16x1,5	-05	3,9	6,7	25,5	55,5	17	3,1	HCS-06-CE-10L-M-W3
					.15	.26	1.00	2.19	.67	6.73	
06	1/4''	-04	M18x1,5	-06	3,9	6,7	25,5	55,5	19,0	3,4	HCS-06-CE-12L-M-W3
					.15	.26	1.00	2.19	.75	7.50	
08	5/16''	-05	M16x1,5	-05	5,4	8,2	24,5	54,5	17,0	3,1	HCS-08-CE-10L-M-W3
					.21	.32	.96	2.15	.67	6.84	
08	5/16''	-05	M18x1,5	-06	5,4	8,2	25,5	55,5	19,0	3,6	HCS-08-CE-12L-M-W3
					.21	.32	1.00	2.19	.75	7.83	
10	3/8''	-06	M18x1,5	-06	6,5	9,9	25,5	59,0	19,0	4,1	HCS-10-CE-12L-M-W3
					.26	.39	1.00	2.32	.75	9.04	
10	3/8''	-06	M16x1,5	-05	6,5	9,9	24,5	58,0	17,0	3,7	HCS-10-CE-10L-M-W3
					.26	.39	.96	2.28	.67	8.05	
10	3/8''	-06	M22x1,5	-08	6,5	9,9	27,5	61,0	22,0	5,8	HCS-10-CE-15L-M-W3
					.26	.39	1.08	2.40	.87	12.79	
12	1/2''	-08	M22x1,5	-08	9,5	13,0	28,0	63,5	22,0	6,6	HCS-12-CE-15L-M-W3
					.37	.51	1.10	2.50	.87	14.55	
12	1/2''	-08	M18x1,5	-06	9,5	13,0	26,5	62,0	19,0	5,1	HCS-12-CE-12L-M-W3
					.37	.51	1.04	2.44	.75	11.14	
12	1/2''	-08	M26x1,5	-10	9,5	13,0	29,5	65,0	27,0	9,1	HCS-12-CE-18L-M-W3
					.37	.51	1.16	2.56	1.06	19.96	
16	5/8''	-10	M26x1,5	-10	12,6	16,0	29,0	67,5	27,0	9,3	HCS-16-CE-18L-M-W3
					.50	.63	1.14	2.66	1.06	20.51	
19	3/4''	-12	M30x2	-12	12,6	16,0	32,0	70,5	30,0	11,2	HCS-16-CE-22L-M-W3
					.50	.63	1.26	2.78	1.18	24.70	
19	3/4''	-12	M30x2	-12	14,8	19,1	32,5	78,5	30,0	13,2	HCS-19-CE-22L-M-W3
					.58	.75	1.28	3.09	1.18	29.00	
25	1''	-16	M36x2	-16	20,0	25,9	34,5	89,5	36,0	23,0	HCS-25-CE-28L-M-W3
					.79	1.02	1.36	3.52	1.42	50.60	
19	3/4''	-12	M30x2	-12	20,0	25,9	34,5	89,5	30,0	18,1	HCS-25-CE-22L-M-W3
					.79	1.02	1.36	3.52	1.18	39.91	
31	1 1/4''	-20	M45x2	-20	26,0	32,5	39,5	99,5	46,0	38,5	HCS-31-CE-35L-M-W3
					1.02	1.28	1.56	3.92	1.81	84.89	
38	1 1/2''	-24	M52x2	-24	31,0	38,9	42,5	110,0	55,0	58,3	HCS-38-CE-42L-M-W3
					1.22	1.53	1.67	4.33	2.17	128.44	

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **ECOVOS VA Version** Page 102

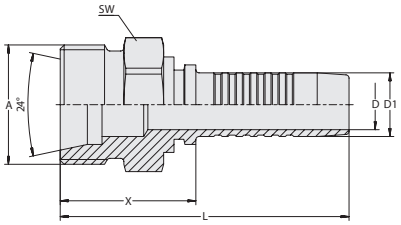
 **MULTIVOS Version** Page 142

Straight Insert with Male Metric Thread and 24° Conical Bore
Type CES (Heavy Series)

Connection Type Male Metric Thread
Sealing Type 24° Conical Bore
(Shape W acc. to DIN 3861)
Standard ISO 8434-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection
(nominal sizes DN 16 to DN 31)





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
05	1/8''	-03	M16x1,5	-03	2,9	5,1	24,0	49,0	17,0	2,9	HCS-05-CE-08S-M-W3
					.11	.20	.94	1.93	.67	6.39	
06	1/4''	-04	M18x1,5	-04	3,9	6,7	26,5	56,5	19	4,0	HCS-06-CE-10S-M-W3
					.15	.26	1.04	2.22	.75	8.82	
06	1/4''	-04	M16x1,5	-03	3,9	6,7	25,5	55,5	17	3,3	HCS-06-CE-08S-M-W3
					.15	.26	1.00	2.19	.67	7.28	
06	1/4''	-04	M20x1,5	-05	3,9	6,7	27,5	57,5	22	5,2	HCS-06-CE-12S-M-W3
					.15	.26	1.08	2.26	.87	11.36	
08	5/16''	-05	M20x1,5	-05	5,4	8,2	27,5	57,5	22,0	5,3	HCS-08-CE-12S-M-W3
					.21	.32	1.08	2.26	.87	11.69	
10	3/8''	-06	M22x1,5	-06	6,5	9,9	29,5	63,0	22,0	6,5	HCS-10-CE-14S-M-W3
					.26	.39	1.16	2.48	.87	14.22	
10	3/8''	-06	M20x1,5	-05	6,5	9,9	27,5	61,0	22,0	5,9	HCS-10-CE-12S-M-W3
					.26	.39	1.08	2.40	.87	13.01	
12	1/2''	-08	M24x1,5	-08	9,5	13,0	30,0	65,5	24,0	8,0	HCS-12-CE-16S-M-W3
					.37	.51	1.18	2.58	.94	17.53	
12	1/2''	-08	M20x1,5	-05	9,5	13,0	28,0	63,5	22,0	6,6	HCS-12-CE-12S-M-W3
					.37	.51	1.10	2.50	.87	14.44	
12	1/2''	-08	M22x1,5	-06	9,5	13,0	30,0	65,5	22,0	7,3	HCS-12-CE-14S-M-W3
					.37	.51	1.18	2.58	.87	16.10	
12	1/2''	-08	M30x2	-10	9,5	13,0	34,0	70,0	30,0	13,1	HCS-12-CE-20S-M-W3
					.37	.51	1.34	2.76	1.18	28.89	
16	5/8''	-10	M30x2	-10	12,6	16,0	34,0	72,5	30,0	12,9	HCS-16-CE-20S-M-W3
					.50	.63	1.34	2.85	1.18	28.33	
16	5/8''	-10	M36x2	-12	12,6	16,0	37,0	75,5	36,0	19,7	HCS-16-CE-25S-M-W3
					.50	.63	1.46	2.97	1.42	43.44	
19	3/4''	-12	M36x2	-12	14,8	19,1	37,5	83,5	36,0	20,4	HCS-19-CE-25S-M-W3
					.58	.75	1.48	3.29	1.42	44.87	
19	3/4''	-12	M30x2	-10	14,8	19,1	34,5	80,5	30,0	14,8	HCS-19-CE-20S-M-W3
					.58	.75	1.36	3.17	1.18	32.63	
25	1''	-16	M42x2	-16	20,0	25,9	42,5	97,5	46,0	36,4	HCS-25-CE-30S-M-W3
					.79	1.02	1.67	3.84	1.81	80.26	
25	1''	-16	M36x2	-12	20,0	25,9	38,5	93,5	36,0	25,5	HCS-25-CE-25S-M-W3
					.79	1.02	1.52	3.68	1.42	56.23	
25	1''	-16	M52x2	-20	20,0	25,9	46,5	101,5	55,0	55,7	HCS-25-CE-38S-M-W3
					.79	1.02	1.83	4.00	2.17	122.71	
31	1 1/4''	-20	M52x2	-20	26,0	32,5	47,5	107,5	55,0	57,30	HCS-31-CE-38S-M-W3
					1.02	1.28	1.87	4.23	2.17	126.35	
25	1''	-16	M52x2	-20	20,0	25,9	46,5	101,5	55,0	55,7	HCS-25-CE-38S-M-W3
					.79	1.02	1.83	4.00	2.17	122.71	

Related Products and Accessories


Swage Ferrules Pages 14-21

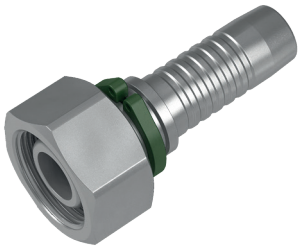

Mobile Interlocking Protection Page 88

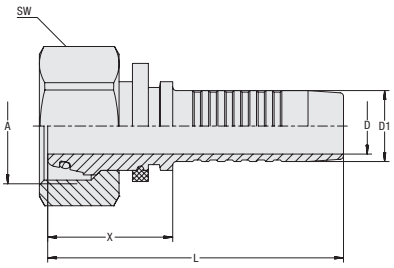

ECOVOS VA Version Page 103


MULTIVOS Version Page 143

A

Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring
Type DKOL (Light Series)





Connection Type	Female Metric Nut Thread
Sealing Type	24° Taper with O-Ring
Standard	ISO 8434-1
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating
Sealing Material	NBR (Buna-N®)

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
05	1/8"	-03	M12x1,5	-03	2,9	5,1	24,5	49,0	14,0	2,1	HCS-05-DKO-06L-S-OR-B-M-W3
					.11	.20	.96	1.93	.55	4.63	
06	1/4"	-04	M14x1,5	-04	3,9	6,7	24,5	54,0	17,0	3,3	HCS-06-DKO-08L-S-OR-B-M-W3
					.15	.26	.96	2.13	.67	7.17	
06	1/4"	-04	M12x1,5	-03	3,9	6,7	21,0	51,0	14,0	2,3	HCS-06-DKO-06L-W-OR-B-M-W3
					.15	.26	.83	2.01	.55	5.07	
06	1/4"	-04	M12x1,5	-03	3,9	6,7	21,0	51,0	17,0	3,2	HCS-06-DKO-06L-W-OR-B-M-W3-SW17
					.15	.26	.83	2.01	.67	7.06	
06	1/4"	-04	M16x1,5	-05	3,9	6,7	26,0	55,5	19,0	4,0	HCS-06-DKO-10L-S-OR-B-M-W3
					.15	.26	1.02	2.19	.75	8.82	
06	1/4"	-04	M18x1,5	-08	3,9	6,7	26,0	56,2	22,0	5,3	HCS-06-DKO-12L-S-OR-B-M-W3
					.15	.26	1.02	2.21	.87	11.69	
08	5/16"	-05	M16x1,5	-05	5,4	8,2	26,0	55,5	19,0	4,2	HCS-08-DKO-10L-S-OR-B-M-W3
					.21	.32	1.02	2.19	.75	9.26	
08	5/16"	-05	M14x1,5	-04	5,4	8,2	22,0	52,0	17,0	3,3	HCS-08-DKO-08L-W-OR-B-M-W3
					.21	.32	.87	2.05	.67	7.28	
08	5/16"	-05	M18x1,5	-06	5,4	8,2	30,0	60,0	22,0	5,7	HCS-08-DKO-12L-S-OR-B-M-W3
					.21	.32	1.18	2.36	.87	12.46	
10	3/8"	-06	M18x1,5	-06	6,5	9,9	26,0	59,0	22,0	6,0	HCS-10-DKO-12L-S-OR-B-M-W3
					.26	.39	1.02	2.32	.87	13.12	
10	3/8"	-06	M16x1,5	-05	6,5	9,9	22,5	56,0	19,0	4,6	HCS-10-DKO-10L-W-OR-B-M-W3
					.26	.39	.89	2.20	.75	10.14	
10	3/8"	-06	M22x1,5	-08	6,5	9,9	25,0	58,5	27,0	8,7	HCS-10-DKO-15L-S-OR-B-M-W3
					.26	.39	.98	2.30	1.06	19.18	
12	1/2"	-08	M22x1,5	-08	9,5	13,0	25,5	61,0	27,0	8,9	HCS-12-DKO-15L-S-OR-B-M-W3
					.37	.51	1.00	2.40	1.06	19.51	
12	1/2"	-08	M18x1,5	-06	9,5	13,0	24,0	59,5	22,0	6,50	HCS-12-DKO-12L-W-OR-B-M-W3
					.37	.51	.94	2.34	.87	14.33	
12	1/2"	-08	M26x1,5	-10	9,5	13,0	34,5	70,0	32,0	13,15	HCS-12-DKO-18L-S-OR-B-M-W3
					.37	.51	1.36	2.76	1.26	29.00	
16	5/8"	-10	M26x1,5	-10	12,6	16,0	28,0	66,5	32,0	12,5	HCS-16-DKO-18L-S-OR-B-M-W3
					.50	.63	1.10	2.62	1.26	27.56	
16	5/8"	-10	M30x2	-12	12,6	16,0	34,5	73,0	36,0	17,1	HCS-16-DKO-22L-S-OR-B-M-W3
					.50	.63	1.36	2.87	1.42	37.71	
16	5/8"	-10	M22x1,5	-08	12,6	16,0	44,5	83,0	27,0	13,8	HCS-16-DKO-15L-S-OR-B-B-W3
					.50	.63	1.75	3.27	1.06	30.43	
16	5/8"	-10	M26x1,5	-10	12,6	16,0	28,0	66,5	32,0	12,5	HCS-16-DKO-18L-S-OR-B-M-W3
					.50	.63	1.10	2.62	1.26	27.56	
16	5/8"	-10	M30x2	-12	12,6	16,0	34,5	73,0	36,0	17,1	HCS-16-DKO-22L-S-OR-B-M-W3
					.50	.63	1.36	2.87	1.42	37.71	
16	5/8"	-10	M22x1,5	-08	12,6	16,0	44,5	83,0	27,0	13,8	HCS-16-DKO-15L-S-OR-B-B-W3
					.50	.63	1.75	3.27	1.06	30.43	

Related Products and Accessories


Swage Ferrules Pages 14-21


45° Version Pages 26-27


ECOVOS VA Version Page 107

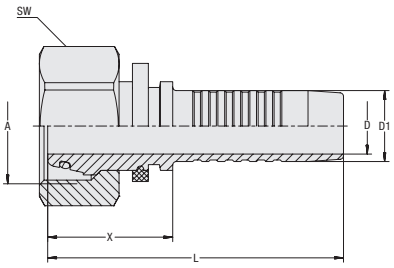

90° Version Pages 28-29

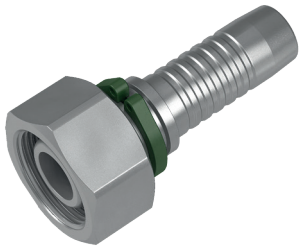

MULTIVOS Version Page 144

Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOL (Light Series)

Connection Type Female Metric Nut Thread
Sealing Type 24° Taper with O-Ring
Standard ISO 8434-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
19	3/4"	-12	M30x2	-12	14,8	19,1	30,0	76,0	36,0	18,4	HCS-19-DKO-22L-S-OR-B-M-W3
					.58	.75	1.18	2.99	1.42	40.57	
19	3/4"	-12	M22x1,5	-08	14,8	19,1	24,0	70,0	27,0	11,9	HCS-19-DKO-15L-W-OR-B-M-W3
					.58	.75	.94	2.76	1.06	26.13	
19	3/4"	-12	M26x1,5	-10	14,8	19,1	25,5	71,5	32,0	14,4	HCS-19-DKO-18L-W-OR-B-M-W3
					.58	.75	1.00	2.81	1.26	31.64	
19	3/4"	-12	M36x2	-16	14,8	19,1	34,0	78,0	41,0	25,0	HCS-19-DKO-28L-S-OR-B-M-W3
					.58	.75	1.34	3.07	1.61	55.13	
25	1"	-16	M36x2	-16	20,0	25,9	33,0	88,0	41,0	28,0	HCS-25-DKO-28L-S-OR-B-M-W3
					.79	1.02	1.30	3.46	1.61	61.74	
25	1"	-16	M45x2	-20	20,0	25,9	36,0	91,0	50,0	42,2	HCS-25-DKO-35L-S-OR-B-M-W3
					.79	1.02	1.42	3.58	1.97	92.94	
25	1"	-16	M30x2	-12	20,0	25,9	45,0	100,0	36,0	32,7	HCS-25-DKO-22L-S-OR-B-B-W3
					.79	1.02	1.77	3.94	1.42	72.10	
31	1 1/4"	-20	M45x2	-20	26,0	32,5	37,0	97,0	50,0	43,8	HCS-31-DKO-35L-S-OR-B-M-W3
					1.02	1.28	1.46	3.82	1.97	96.47	
31	1 1/4"	-20	M36x2	-16	26,0	32,5	47,5	107,5	50,0	47,3	HCS-31-DKO-28L-S-OR-B-B-W3
					1.02	1.28	1.87	4.23	1.97	104.30	
31	1 1/4"	-20	M52x2	-24	26,0	32,5	55,0	115,0	60,0	73,8	HCS-31-DKO-42L-S-OR-B-B-W3
					1.02	1.28	2.17	4.53	2.36	162.73	
38	1 1/2"	-24	M52x2	-24	31,0	38,9	35,5	103,0	60,0	66,0	HCS-38-DKO-42L-S-OR-B-M-W3
					1.22	1.53	1.40	4.06	2.36	145.53	
38	1 1/2"	-24	M45x2	-20	31,0	38,9	56,0	123,5	50,0	71,5	HCS-38-DKO-35L-S-OR-B-B-W3
					1.22	1.53	2.20	4.86	1.97	157.66	
51	2"	-32	M52x2	-24	40,0	51,6	59,5	134,5	60,0	132,8	HCS-51-DKO-42L-S-OR-B-B-W3
					1.57	2.03	2.34	5.30	2.36	292.82	

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **45° Version** Pages 26-27

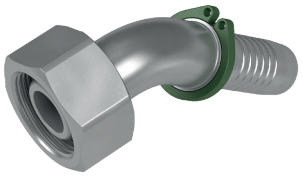
 **ECOVOS VA Version** Page 107

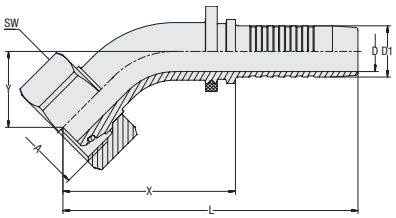
 **90° Version** Pages 28-29

 **MULTIVOS Version** Page 144

A

45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOL 45° (Light Series)





Connection Type	Female Metric Nut Thread
Sealing Type	24° Taper with O-Ring
Standard	ISO 8434-1
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating
Sealing Material	NBR (Buna-N®)

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
05	1/8"	-03	M12x1,5	-03	2,9	5,1	31,8	56,5	15,0	14,0	2,3	HCS-05-DKO-06L-045-S-OR-B-M-W3
					.11	.20	1.25	2.22	.59	.55	5.07	
06	1/4"	-04	M12x1,5	-03	3,9	6,7	36,5	66,5	18,0	14,0	3,1	HCS-06-DKO-06L-045-W-OR-B-M-W3
					.15	.26	1.44	2.62	.71	.55	6.73	
06	1/4"	-04	M14x1,5	-04	3,9	6,7	36,0	66,0	16,0	17,0	3,6	HCS-06-DKO-08L-045-S-OR-B-M-W3
					.15	.26	1.42	2.60	.63	.67	7.94	
06	1/4"	-04	M16x1,5	-05	3,9	6,7	38,5	68,5	18,5	19,0	4,9	HCS-06-DKO-10L-045-S-OR-B-M-W3
					.15	.26	1.52	2.70	.73	.75	10.69	
06	1/4"	-04	M18x1,5	-06	3,9	6,7	39,5	69,5	18,5	22,0	6,0	HCS-06-DKO-12L-045-S-OR-B-M-W3
					.15	.26	1.56	2.74	.73	.87	13.23	
08	5/16"	-05	M16x1,5	-05	5,4	8,2	38,5	68,5	18,5	19,0	5,0	HCS-08-DKO-10L-045-S-OR-B-M-W3
					.21	.32	1.52	2.70	.73	.75	10.91	
08	5/16"	-05	M18x1,5	-06	5,4	8,2	40,0	70,0	18,0	22,0	6,3	HCS-08-DKO-12L-045-S-OR-B-M-W3
					.21	.32	1.57	2.76	.71	.87	13.89	
08	5/16"	-05	M14x1,5	-04	5,4	8,2	50,0	80,0	20,0	17,0	5,7	HCS-08-DKO-08L-045-S-OR-B-B-W3
					.21	.32	1.97	3.15	.79	.67	12.57	
10	3/8"	-06	M16x1,5	-05	6,5	9,9	44,0	77,0	19,5	19,0	6,5	HCS-10-DKO-10L-045-W-OR-B-M-W3
					.26	.39	1.73	3.03	.77	.75	14.33	
10	3/8"	-06	M18x1,5	-06	6,5	9,9	41,5	74,5	17,5	22,0	7,2	HCS-10-DKO-12L-045-S-OR-B-M-W3
					.26	.39	1.63	2.93	.69	.87	15.88	
10	3/8"	-06	M22x1,5	-08	6,5	9,9	48,0	82,0	19,5	27,0	11,4	HCS-10-DKO-15L-045-S-OR-B-B-W3
					.26	.39	1.89	3.23	.77	1.06	25.14	
12	1/2"	-08	M22x1,5	-08	9,5	13,0	46,0	81,5	21,0	27,0	11,1	HCS-12-DKO-15L-045-S-OR-B-M-W3
					.37	.51	1.81	3.21	.83	1.06	24.48	
12	1/2"	-08	M18x1,5	-06	9,5	13,0	49,5	85,0	19,5	22,0	11,0	HCS-12-DKO-12L-045-W-OR-B-B-W3
					.37	.51	1.95	3.35	.77	.87	24.26	
12	1/2"	-08	M26x1,5	-10	9,5	13,0	67,0	102,5	27,5	32,0	20,5	HCS-12-DKO-18L-045-S-OR-B-B-W3
					.37	.51	2.64	4.04	1.08	1.26	45.20	
16	5/8"	-10	M26x1,5	-10	12,6	16,0	54,0	92,0	24,0	32,0	15,9	HCS-16-DKO-18L-045-S-OR-B-M-W3
					.50	.63	2.13	3.62	.94	1.26	35.06	
16	5/8"	-10	M22x1,5	-08	12,6	16,0	56,5	95,0	22,0	27,0	16,2	HCS-16-DKO-15L-045-S-OR-B-B-W3
					.50	.63	2.22	3.74	.87	1.06	35.72	
16	5/8"	-10	M30x2	-12	12,6	16,0	72,0	110,5	29,5	36,0	29,20	HCS-16-DKO-22L-045-S-OR-B-B-W3
					.50	.63	2.83	4.35	1.16	1.42	64.39	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


Swage Ferrules Pages 14-21


Straight Version Pages 24-25


ECOVOS VA Version Page 108

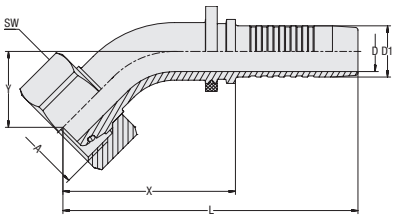

90° Version Pages 28-29

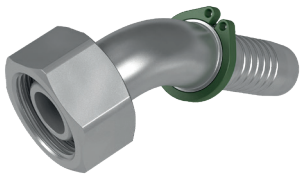

MULTIVOS Version Page 145

45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOL 45° (Light Series)

Connection Type Female Metric Nut Thread
Sealing Type 24° Taper with O-Ring
Standard ISO 8434-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
19	3/4"	-12	M30x2	-12	14,8	19,1	67,0	113,0	25,5	36,0	25,70	HCS-19-DKO-22L-045-S-OR-B-M-W3
					.58	.75	2.64	4.45	1.00	1.42	56.67	
19	3/4"	-12	M26x1,5	-10	14,8	19,1	67,5	113,5	27,5	32,0	24,20	HCS-19-DKO-18L-045-S-OR-B-B-W3
					.58	.75	2.66	4.47	1.08	1.26	53.36	
19	3/4"	-12	M36x2	-16	14,8	19,1	73,5	119,5	29,5	41,0	34,80	HCS-19-DKO-28L-045-S-OR-B-B-W3
					.58	.75	2.89	4.70	1.16	1.61	76.73	
25	1"	-16	M36x2	-16	20,0	25,9	80,0	135,0	33,0	41,0	41,80	HCS-25-DKO-28L-045-S-OR-B-M-W3
					.79	1.02	3.15	5.31	1.30	1.61	92.17	
25	1"	-16	M30x2	-12	20,0	25,9	74,5	129,5	29,5	36,0	39,03	HCS-25-DKO-22L-045-S-OR-B-B-W3
					.79	1.02	2.93	5.10	1.16	1.42	86.06	
25	1"	-16	M45x2	-20	20,0	25,9	82,5	138,0	34,5	50,0	58,00	HCS-25-DKO-35L-045-S-OR-B-B-W3
					.79	1.02	3.25	5.43	1.36	1.97	127.89	
31	1 1/4"	-20	M45x2	-20	26,0	32,5	99,5	159,5	39,5	50,0	70,70	HCS-31-DKO-35L-045-S-OR-B-M-W3
					1.02	1.28	3.92	6.28	1.56	1.97	155.89	
31	1 1/4"	-20	M36x2	-16	26,0	32,5	85,0	145,0	33,0	41,0	59,05	HCS-31-DKO-28L-045-S-OR-B-B-W3
					1.02	1.28	3.35	5.71	1.30	1.61	130.21	
31	1 1/4"	-20	M52x2	-24	26,0	32,5	117,0	177,0	47,5	60,0	101,35	HCS-31-DKO-42L-045-S-OR-B-B-W3
					1.02	1.28	4.61	6.97	1.87	2.36	223.48	
38	1 1/2"	-24	M52x2	-24	31,0	38,9	107,5	175,0	38,5	60,0	102,30	HCS-38-DKO-42L-045-S-OR-B-M-W3
					1.22	1.53	4.23	6.89	1.52	2.36	225.57	
38	1 1/2"	-24	M45x2	-20	31,0	38,9	106,5	174,5	43,0	50,0	91,75	HCS-38-DKO-35L-045-S-OR-B-B-W3
					1.22	1.53	4.19	6.87	1.69	1.97	202.31	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **Straight Version** Pages 24-25

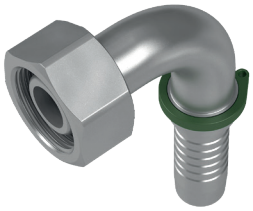
 **ECOVOS VA Version** Page 108

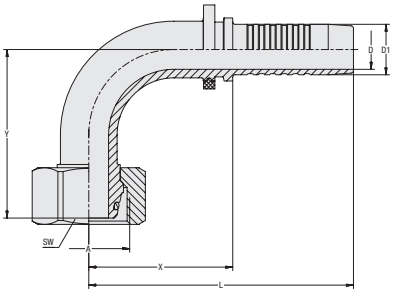
 **90° Version** Pages 28-29

 **MULTIVOS Version** Page 145

A

90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring
Type DKOL 90° (Light Series)





Connection Type	Female Metric Nut Thread
Sealing Type	24° Taper with O-Ring
Standard	ISO 8434-1
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating
Sealing Material	NBR (Buna-N®)

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
05	1/8"	-03	M12x1,5	-03	2,9	5,1	23,5	48,0	27,0	14,0	2,5	HCS-05-DKO-06L-090-S-OR-B-M-W3
					.11	.20	.93	1.89	1.06	.55	5.51	
06	1/4"	-04	M12x1,5	-03	3,9	6,7	25,0	55,0	32,5	14	3,3	HCS-06-DKO-06L-090-W-OR-B-M-W3
					.15	.26	.98	2.17	1.28	.55	7.28	
06	1/4"	-04	M14x1,5	-04	3,9	6,7	29,5	59,5	29,0	17	3,9	HCS-06-DKO-08L-090-S-OR-B-M-W3
					.15	.26	1.16	2.34	1.14	.67	8.60	
06	1/4"	-04	M16x1,5	-05	3,9	6,7	31,0	61,0	31,5	19	5,4	HCS-06-DKO-10L-090-S-OR-B-M-W3
					.15	.26	1.22	2.40	1.24	.75	11.91	
06	1/4"	-04	M18x1,5	-06	3,9	6,7	30,5	60,5	33,0	22	6,5	HCS-06-DKO-12L-090-S-OR-B-M-W3
					.15	.26	1.20	2.38	1.30	.87	14.33	
08	5/16"	-05	M14x1,5	-04	5,4	8,2	31,0	61,0	35,5	17	5,2	HCS-08-DKO-08L-090-W-OR-B-M-W3
					.21	.32	1.22	2.40	1.40	.67	11.47	
08	5/16"	-05	M16x1,5	-05	5,4	8,2	31,0	61,0	31,5	19	5,5	HCS-08-DKO-10L-090-S-OR-B-M-W3
					.21	.32	1.22	2.40	1.24	.75	12.02	
08	5/16"	-05	M18x1,5	-06	5,4	8,2	31,0	61,0	33,0	22	6,8	HCS-08-DKO-12L-090-S-OR-B-M-W3
					.21	.32	1.22	2.40	1.30	.87	14.99	
10	3/8"	-06	M16x1,5	-05	6,5	9,9	38,5	71,5	39,0	19	7,7	HCS-10-DKO-10L-090-W-OR-B-M-W3
					.26	.39	1.52	2.81	1.54	.75	16.98	
10	3/8"	-06	M18x1,5	-06	6,5	9,9	37,5	71,0	36,0	22	8,4	HCS-10-DKO-12L-090-S-OR-B-M-W3
					.26	.39	1.48	2.80	1.42	.87	18.41	
10	3/8"	-06	M22x1,5	-08	6,5	9,9	39,0	72,5	38,5	27	12,3	HCS-10-DKO-15L-090-S-OR-B-B-W3
					.26	.39	1.54	2.85	1.52	1.06	27.01	
12	1/2"	-08	M22x1,5	-08	9,5	13,0	40,5	76,0	42,5	27	12,9	HCS-12-DKO-15L-090-S-OR-B-M-W3
					.37	.51	1.59	2.99	1.67	1.06	28.42	
12	1/2"	-08	M26x1,5	-10	9,5	13,0	55,5	91,0	54,0	32	22,8	HCS-12-DKO-18L-090-S-OR-B-B-W3
					.37	.51	2.19	3.58	2.13	1.26	50.27	
16	5/8"	-10	M26x1,5	-10	12,6	16,0	46,0	84,0	53,5	32	18,4	HCS-16-DKO-18L-090-S-OR-B-M-W3
					.50	.63	1.81	3.31	2.11	1.26	40.57	
16	5/8"	-10	M22x1,5	-08	12,6	16,0	46,5	85,0	44,5	27	17,7	HCS-16-DKO-15L-090-S-OR-B-B-W3
					.50	.63	1.83	3.35	1.75	1.06	38.92	
16	5/8"	-10	M30x2	-12	12,6	16,0	62,5	101,0	61,0	36	33,3	HCS-16-DKO-22L-090-S-OR-B-B-W3
					.50	.63	2.46	3.98	2.40	1.42	73.43	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **Straight Version** Pages 24-25

 **ECOVOS VA Version** Page 109

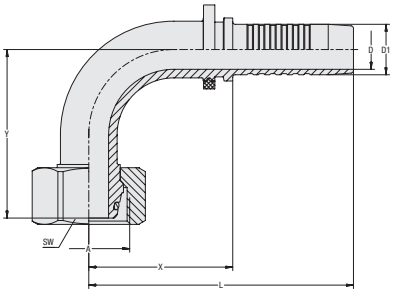
 **45° Version** Pages 26-27

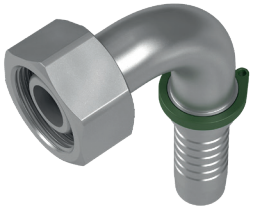
 **MULTIVOS Version** Page146

90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOL 90° (Light Series)

Connection Type Female Metric Nut Thread
Sealing Type 24° Taper with O-Ring
Standard ISO 8434-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
19	3/4"	-12	M30x2	-12	14,8	19,1	57,5	103,0	57,0	36	29,6	HCS-19-DKO-22L-090-S-OR-B-M-W3
					.58	.75	2.26	4.06	2.24	1.42	65.16	
19	3/4"	-12	M26x1,5	-10	14,8	19,1	56,0	102,0	54,0	32	26,5	HCS-19-DKO-18L-090-S-OR-B-B-W3
					.58	.75	2.20	4.02	2.13	1.26	58.43	
19	3/4"	-12	M36x2	-16	14,8	19,1	63,0	109,0	61,0	41	38,9	HCS-19-DKO-28L-090-S-OR-B-B-W3
					.58	.75	2.48	4.29	2.40	1.61	85.77	
25	1"	-16	M36x2	-16	20,0	25,9	72,0	127,0	63,0	41	48,2	HCS-25-DKO-28L-090-S-OR-B-M-W3
					.79	1.02	2.83	5.00	2.48	1.61	106.17	
25	1"	-16	M30x2	-12	20,0	25,9	64,0	119,0	61,0	36	43,2	HCS-25-DKO-22L-090-S-OR-B-B-W3
					.79	1.02	2.52	4.69	2.40	1.42	95.15	
25	1"	-16	M45x2	-20	20,0	25,9	74,0	129,0	73,0	50	65,9	HCS-25-DKO-35L-090-S-OR-B-B-W3
					.79	1.02	2.91	5.08	2.87	1.97	145.20	
31	1 1/4"	-20	M45x2	-20	26,0	32,5	90,5	150,5	81,0	50	82,6	HCS-31-DKO-35L-090-S-OR-B-M-W3
					1.02	1.28	3.56	5.93	3.19	1.97	182.13	
31	1 1/4"	-20	M36x2	-16	26,0	32,5	76,5	136,5	71,0	41	66,8	HCS-31-DKO-28L-090-S-OR-B-B-W3
					1.02	1.28	3.01	5.37	2.80	1.61	147.29	
31	1 1/4"	-20	M52x2	-24	26,0	32,5	104,5	164,5	102,0	60	118,0	HCS-31-DKO-42L-090-S-OR-B-B-W3
					1.02	1.28	4.11	6.48	4.02	2.36	260.08	
38	1 1/2"	-24	M52x2	-24	31,0	38,9	101,0	168,5	88,0	60	117,9	HCS-38-DKO-42L-090-S-OR-B-M-W3
					1.22	1.53	3.98	6.63	3.46	2.36	259.97	
38	1 1/2"	-24	M45x2	-20	31,0	38,9	94,5	162,5	91,0	50	104,3	HCS-38-DKO-35L-090-S-OR-B-B-W3
					1.22	1.53	3.72	6.40	3.58	1.97	229.98	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


Swage Ferrules Pages 14-21


Straight Version Pages 24-25

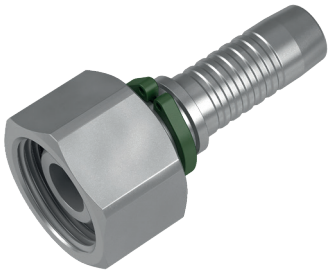

ECOVOS VA Version Page 109

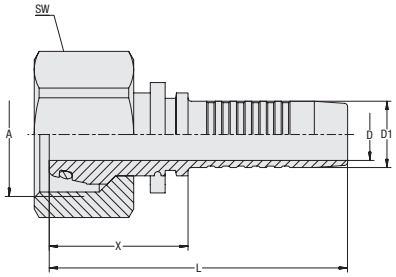

45° Version Pages 26-27


MULTIVOS Version Page146

A

Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring
Type DKOS (Heavy Series)





Connection Type	Female Metric Nut Thread
Sealing Type	24° Taper with O-Ring
Standard	ISO 8434-1
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating
Sealing Material	NBR (Buna-N®)

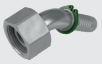
Suitable for use with mobile interlocking protection
(nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
05	1/8"	-03	M16x1,5	-03	2,9	5,1	26,0	50,5	19,0	3,6	HCS-05-DKO-08S-S-OR-B-M-W3
					.11	.20	1.02	1.99	.75	7.94	
06	1/4"	-04	M18x1,5	-04	3,9	6,7	26,0	55,5	22,0	5,3	HCS-06-DKO-10S-S-OR-B-M-W3
					.15	.26	1.02	2.19	.87	11.69	
06	1/4"	-04	M14x1,5	-02	3,9	6,7	26,0	56,0	17,0	3,5	HCS-06-DKO-06S-W-OR-B-M-W3
					.15	.26	1.02	2.20	.67	7.72	
06	1/4"	-04	M16x1,5	-03	3,9	6,7	24,5	54,0	19,0	3,9	HCS-06-DKO-08S-S-OR-B-M-W3
					.15	.26	.96	2.13	.75	8.49	
06	1/4"	-04	M20x1,5	-05	3,9	6,7	44,5	74,5	24,0	8,2	HCS-06-DKO-12S-S-OR-B-B-W3
					.15	.26	1.75	2.93	.94	17.97	
08	1/2"	-08	M20x1,5	-05	5,4	8,2	30,0	60,0	24	6,6	HCS-08-DKO-12S-S-OR-B-M-W3
					.21	.32	1.18	2.36	.94	14.55	
08	1/2"	-08	M18x1,5	-04	5,4	8,2	26,0	55,5	22	5,4	HCS-08-DKO-10S-S-OR-B-M-W3
					.21	.32	1.02	2.19	.87	11.91	
08	1/2"	-08	M18x1,5	-06	5,4	8,2	30,0	60,0	22,0	5,7	HCS-08-DKO-12S-S-OR-B-M-W3
					.21	.32	1.18	2.36	.87	12.46	
10	3/8"	-06	M22x1,5	-06	6,5	9,9	30,5	64,0	27	9,7	HCS-10-DKO-14S-S-OR-B-M-W3
					.26	.39	1.20	2.52	1.06	21.39	
10	3/8"	-06	M20x1,5	-05	6,5	9,9	26,0	59,0	24	6,9	HCS-10-DKO-12S-S-OR-B-M-W3
					.26	.39	1.02	2.32	.94	15.21	
10	3/8"	-06	M24x1,5	-08	6,5	9,9	32,0	65,5	30	11,7	HCS-10-DKO-16S-S-OR-B-M-W3
					.26	.39	1.26	2.58	1.18	25.80	
10	3/8"	-06	M18x1,5	-04	6,5	9,9	44,0	77,5	22	8,3	HCS-10-DKO-10S-S-OR-B-B-W3
					.26	.39	1.73	3.05	.87	18.30	
12	1/2"	-08	M24x1,5	-08	9,5	13,0	32,0	67,5	30	12,5	HCS-12-DKO-16S-S-OR-B-M-W3
					.37	.51	1.26	2.66	1.18	27.56	
12	5/16"	-05	M20x1,5	-05	9,5	13,0	24,5	60,0	24	7,2	HCS-12-DKO-12S-W-OR-B-M-W3
					.37	.51	.96	2.36	.94	15.88	
12	1/2"	-08	M22x1,5	-06	9,5	13,0	26,5	62,0	27	9,8	HCS-12-DKO-14S-W-OR-B-M-W3
					.37	.51	1.04	2.44	1.06	21.61	
12	1/2"	-08	M30x2	-10	9,5	13,0	63,5	99,0	36	25,1	HCS-12-DKO-20S-S-OR-B-B-W3
					.37	.51	2.50	3.90	1.42	55.24	
16	5/8"	-10	M30x2	-10	12,6	16,0	33,5	72,0	36	18,7	HCS-16-DKO-20S-S-OR-B-M-W3
					.50	.63	1.32	2.83	1.42	41.12	
16	5/8"	-10	M24x1,5	-08	12,6	16,0	26,5	65,0	30	12,5	HCS-16-DKO-16S-W-OR-B-M-W3
					.50	.63	1.04	2.56	1.18	27.56	
16	5/8"	-10	M36x2	-12	12,6	16,0	52,0	90,5	46	40,1	HCS-16-DKO-25S-S-OR-B-B-W3
					.50	.63	2.05	3.56	1.81	88.31	

Related Products and Accessories


Swage Ferrules Pages 14-21


Mobile Interlocking Protection Page 88


45° Version Pages 32-33


90° Version Pages 34-35


ECOVOS VA Version Page 110


MULTIVOS Version Page 147

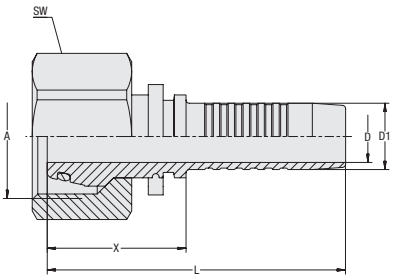

POWERVOS Version Page 180

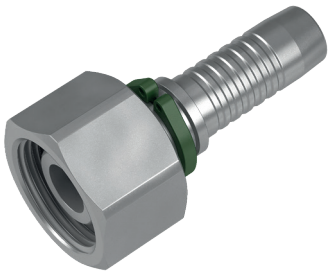
Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOS (Heavy Series)

Connection Type Female Metric Nut Thread
Sealing Type 24° Taper with O-Ring
Standard ISO 8434-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)



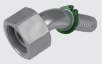


Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
19	3/4"	-12	M36x2	-12	14,8	19,1	37,0	83,0	41	27,2	HCS-19-DKO-25S-S-OR-B-M-W3
					.58	.75	1.46	3.27	1.61	59.98	
19	3/4"	-12	M30x2	-10	14,8	19,1	32,0	78,0	36	20,9	HCS-19-DKO-20S-W-OR-B-M-W3
					.58	.75	1.26	3.07	1.42	46.08	
19	3/4"	-12	M36x2	-12	14,8	19,1	37,0	83,0	46	35,0	HCS-19-DKO-25S-S-OR-B-M-W3-SW46
					.58	.75	1.46	3.27	1.81	77.18	
19	3/4"	-12	M42x2	-16	14,8	19,1	53,0	99,0	50	46,6	HCS-19-DKO-30S-S-OR-B-B-W3
					.58	.75	2.09	3.90	1.97	102.64	
25	1"	-16	M42x2	-16	20,0	25,9	40,0	95,0	50	45,4	HCS-25-DKO-30S-S-OR-B-M-W3
					.79	1.02	1.57	3.74	1.97	100.11	
25	1"	-16	M36x2	-12	20,0	25,9	53,5	108,5	41	42,1	HCS-25-DKO-25S-S-OR-B-B-W3
					.79	1.02	2.11	4.27	1.61	92.72	
25	1"	-16	M52x2	-20	20,0	25,9	56,5	111,5	60	73,3	HCS-25-DKO-38S-S-OR-B-B-W3
					.79	1.02	2.22	4.39	2.36	161.63	
31	1 1/4"	-20	M52x2	-20	26,0	32,5	44	104	60	69,0	HCS-31-DKO-38S-S-OR-B-M-W3
					1.02	1.28	1.73	4.10	2.36	152.15	
31	1 1/4"	-20	M42x2	-16	26,0	32,5	66,5	126,5	50	68,8	HCS-31-DKO-30S-S-OR-B-B-W3
					1.02	1.28	2.62	4.98	1.97	151.59	
38	1 1/2"	-24	M52x2	-20	31,0	38,9	72,0	139,5	60	101,6	HCS-38-DKO-35S-S-OR-B-B-W3
					1.22	1.53	2.83	5.49	2.36	224.03	

Related Products and Accessories


Swage Ferrules Pages 14-21


Mobile Interlocking Protection Page 88


45° Version Pages 32-33


90° Version Pages 34-35

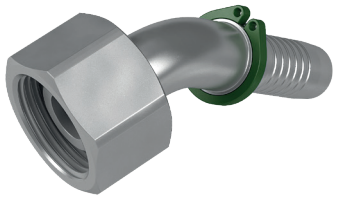

ECOVOS VA Version Page 110

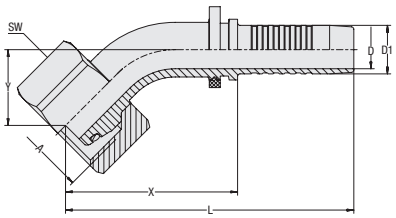

MULTIVOS Version Page 147


POWERVOS Version Page 180

A

45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring
Type DKOS 45° (Heavy Series)





Connection Type Female Metric Nut Thread
Sealing Type 24° Taper with O-Ring
Standard ISO 8434-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)

Suitable for use with mobile interlocking protection
(nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
05	1/8"	-03	M16x1,5	-03	2,9	5,1	34,0	58,5	14,0	19	3,8	HCS-05-DKO-08S-045-S-OR-B-M-W3
					.11	.20	1.34	2.30	.55	.75	8.38	
06	1/4"	-04	M16x1,5	-03	3,9	6,7	36,0	66,0	16,0	19	4,3	HCS-06-DKO-08S-045-S-OR-B-M-W3
					.15	.26	1.42	2.60	.63	.75	9.37	
06	1/4"	-04	M18x1,5	-04	3,9	6,7	38,5	68,5	18,5	22	6,2	HCS-06-DKO-10S-045-S-OR-B-M-W3
					.15	.26	1.52	2.70	.73	.87	13.67	
06	1/4"	-04	M14x1,5	-02	3,9	6,7	43,0	73,0	17,0	17	6,8	HCS-06-DKO-06S-045-S-OR-B-B-W3
					.15	.26	1.69	2.87	.67	.67	14.99	
06	1/4"	-04	M20x1,5	-05	3,9	6,7	44,5	74,5	19,0	24	8,5	HCS-06-DKO-12S-045-S-OR-B-B-W3
					.15	.26	1.75	2.93	.75	.94	18.63	
08	5/16"	-05	M18x1,5	-04	5,4	8,2	38,5	68,5	18,5	22	6,3	HCS-08-DKO-10S-045-S-OR-B-M-W3
					.21	.32	1.52	2.70	.73	.87	13.78	
08	5/16"	-05	M20x1,5	-05	5,4	8,2	40,0	70,0	18,0	24	7,2	HCS-08-DKO-12S-045-S-OR-B-M-W3
					.21	.32	1.57	2.76	.71	.94	15.88	
10	3/8"	-06	M20x1,5	-05	6,5	9,9	41,5	74,5	17,5	24	8,2	HCS-10-DKO-12S-045-S-OR-B-M-W3
					.26	.39	1.63	2.93	.69	.94	18.08	
10	3/8"	-06	M22x1,5	-06	6,5	9,9	46,0	79,0	20,0	27	11,1	HCS-10-DKO-14S-045-S-OR-B-M-W3
					.26	.39	1.81	3.11	.79	1.06	24.37	
10	3/8"	-06	M18x1,5	-04	6,5	9,9	44,0	77,5	19,0	22	8,6	HCS-10-DKO-10S-045-S-OR-B-B-W3
					.26	.39	1.73	3.05	.75	.87	18.96	
10	3/8"	-06	M24x1,5	-08	6,5	9,9	58,5	92,0	24,0	30	17,7	HCS-10-DKO-16S-045-S-OR-B-B-W3
					.26	.39	2.30	3.62	.94	1.18	39.03	
12	1/2"	-08	M24x1,5	-08	9,5	13,0	50,5	86,0	24,0	30	14,7	HCS-12-DKO-16S-045-S-OR-B-M-W3
					.37	.51	1.99	3.39	.94	1.18	32.41	
12	1/2"	-08	M22x1,5	-06	9,5	13,0	51,5	87,0	22,0	27	14,8	HCS-12-DKO-14S-045-S-OR-B-B-W3
					.37	.51	2.03	3.43	.87	1.06	32.52	
12	1/2"	-08	M30x2	-10	9,5	13,0	69,5	105,0	30,0	36	27,0	HCS-12-DKO-20S-045-S-OR-B-B-W3
					.37	.51	2.74	4.13	1.18	1.42	59.42	
16	5/8"	-10	M30x2	-10	12,6	16,0	56,5	95,0	25,0	36	21,8	HCS-16-DKO-20S-045-S-OR-B-M-W3
					.50	.63	2.22	3.74	.98	1.42	47.96	
16	5/8"	-10	M24x1,5	-08	12,6	16,0	57,0	95,5	23,5	30	19,6	HCS-16-DKO-16S-045-S-OR-B-B-W3
					.50	.63	2.24	3.76	.93	1.18	43.22	
16	5/8"	-10	M36x2	-12	12,6	16,0	74,5	113,0	32,0	41	37,7	HCS-16-DKO-25S-045-S-OR-B-B-W3
					.50	.63	2.93	4.45	1.26	1.61	83.13	

Dimension Y ± 2,5 mm / .10 in

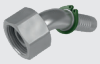
Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **Mobile Interlocking Protection** Page 88

 **Straight Version** Pages 30-31

 **90° Version** Pages 34-35

 **ECOVOS VA Version** Page 111

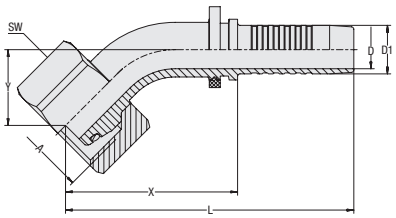
 **MULTIVOS Version** Page 148

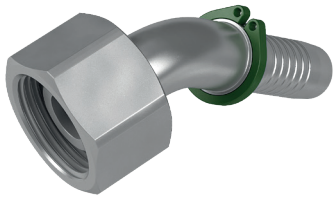
45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOS 45° (Heavy Series)

Connection Type Female Metric Nut Thread
Sealing Type 24° Taper with O-Ring
Standard ISO 8434-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
19	3/4"	-12	M36x2	-12	14,8	19,1	66,0	111,5	29,0	41	33,0	HCS-19-DKO-25S-045-S-OR-B-M-W3
					.58	.75	2.60	4.39	1.14	1.61	72.65	
19	3/4"	-12	M36x2	-12	14,8	19,1	66,0	111,5	29,0	46	33,0	HCS-19-DKO-25S-045-S-OR-B-M-W3-SW46
					.58	.75	2.60	4.39	1.14	1.81	72.77	
19	3/4"	-12	M30x2	-10	14,8	19,1	71,5	117,5	30,5	36	30,8	HCS-19-DKO-20S-045-S-OR-B-B-W3
					.58	.75	2.81	4.63	1.20	1.42	67.91	
19	3/4"	-12	M42x2	-16	14,8	19,1	75,0	121,0	32,0	50	52,0	HCS-19-DKO-30S-045-S-OR-B-B-W3
					.58	.75	2.95	4.76	1.26	1.97	114.66	
25	1"	-16	M42x2	-16	20,0	25,9	83,0	138,0	36,5	50	58,6	HCS-25-DKO-30S-045-S-OR-B-M-W3
					.79	1.02	3.27	5.43	1.44	1.97	129.10	
25	1"	-16	M36x2	-12	20,0	25,9	75,5	131,0	32,0	41	47,5	HCS-25-DKO-25S-045-S-OR-B-B-W3
					.79	1.02	2.97	5.16	1.26	1.61	104.74	
25	1"	-16	M52x2	-20	20,0	25,9	86,0	141,0	37,5	60	83,6	HCS-25-DKO-38S-045-S-OR-B-B-W3
					.79	1.02	3.39	5.55	1.48	2.36	184.23	
31	1 1/4"	-20	M52x2	-20	26,0	32,5	101,5	161,5	41,5	60	92,6	HCS-31-DKO-38S-045-S-OR-B-M-W3
					1.02	1.28	4.00	6.36	1.63	2.36	204.18	
31	1 1/4"	-20	M42x2	-16	26,0	32,5	86,5	146,5	35,5	50	76,6	HCS-31-DKO-30S-045-S-OR-B-B-W3
					1.02	1.28	3.41	5.77	1.40	1.97	168.90	
38	1 1/2"	-24	M52x2	-20	31,0	38,9	107,0	174,5	44,5	60	117,3	HCS-38-DKO-38S-045-S-OR-B-B-W3
					1.22	1.53	4.21	6.87	1.75	2.36	258.65	

Dimension Y ± 2,5 mm / .10 in

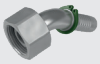
Related Products and Accessories


Swage Ferrules Pages 14-21


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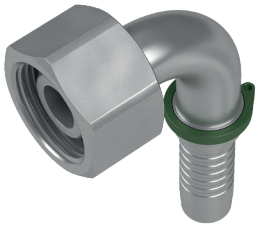

90° Version Pages 34-35

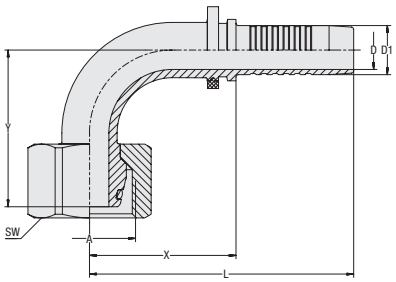

ECOVOS VA Version Page 111


MULTIVOS Version Page 148

A

90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOS 90° (Heavy Series)





Connection Type Female Metric Nut Thread
Sealing Type 24° Taper with O-Ring
Standard ISO 8434-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
05	1/8"	-03	M16x1,5	-03	2,9	5,1	26,5	51,0	27,5	19	4,0	HCS-05-DKO-08S-090-S-OR-B-M-W3
					.11	.20	1.04	2.01	1.08	.75	8.82	
06	1/4"	-04	M14x1,5	-02	3,9	6,7	33,5	63,5	29,0	17	4,2	HCS-06-DKO-06S-090-W-OR-B-M-W3
					.15	.26	1.32	2.50	1.14	.67	9.26	
06	1/4"	-04	M16x1,5	-03	3,9	6,7	29,5	59,5	29,0	19	4,5	HCS-06-DKO-08S-090-S-OR-B-M-W3
					.15	.26	1.16	2.34	1.14	.75	9.92	
06	1/4"	-04	M18x1,5	-04	3,9	6,7	31,0	61,0	31,5	22	6,6	HCS-06-DKO-10S-090-S-OR-B-M-W3
					.15	.26	1.22	2.40	1.24	.87	14.44	
06	1/4"	-04	M20x1,5	-05	3,9	6,7	34,5	64,5	35,0	24	8,9	HCS-06-DKO-12S-090-S-OR-B-B-W3
					.15	.26	1.36	2.54	1.38	.94	19.62	
08	5/16"	-05	M18x1,5	-04	5,4	8,2	31,0	61,0	31,5	22	6,7	HCS-08-DKO-10S-090-S-OR-B-M-W3
					.21	.32	1.22	2.40	1.24	.87	14.77	
08	5/16"	-05	M20x1,5	-05	5,4	8,2	31,0	61,0	33,0	24	7,8	HCS-08-DKO-12S-090-S-OR-B-M-W3
					.21	.32	1.22	2.40	1.30	.94	17.09	
10	3/8"	-06	M20x1,5	-05	6,5	9,9	37,5	71,0	36,0	24	9,3	HCS-10-DKO-12S-090-S-OR-B-M-W3
					.26	.39	1.48	2.80	1.42	.94	20.51	
10	3/8"	-06	M22x1,5	-06	6,5	9,9	38,5	72,0	40,0	27	12,2	HCS-10-DKO-14S-090-S-OR-B-M-W3
					.26	.39	1.52	2.83	1.57	1.06	26.79	
10	3/8"	-06	M18x1,5	-04	6,5	9,9	34,0	67,5	35,0	22	9,1	HCS-10-DKO-10S-090-S-OR-B-B-W3
					.26	.39	1.34	2.66	1.38	.87	19.96	
10	3/8"	-06	M24x1,5	-08	6,5	9,9	46,0	80,0	47,5	30	19,2	HCS-10-DKO-16S-090-S-OR-B-B-W3
					.26	.39	1.81	3.15	1.87	1.18	42.34	
12	1/2"	-08	M24x1,5	-08	9,5	13,0	40,0	75,5	47,0	30	16,1	HCS-12-DKO-16S-090-S-OR-B-M-W3
					.37	.51	1.57	2.97	1.85	1.18	35.50	
12	1/2"	-08	M22x1,5	-06	9,5	13,0	40,5	76,0	41,0	27	15,6	HCS-12-DKO-14S-090-S-OR-B-B-W3
					.37	.51	1.59	2.99	1.61	1.06	34.40	
12	1/2"	-08	M30x2	-10	9,5	13,0	55,5	91,0	58,0	36	29,3	HCS-12-DKO-20S-090-S-OR-B-B-W3
					.37	.51	2.19	3.58	2.28	1.42	64.61	
16	5/8"	-10	M30x2	-10	12,6	16,0	49,0	86,5	52,0	36	23,9	HCS-16-DKO-20S-090-S-OR-B-M-W3
					.50	.63	1.93	3.41	2.05	1.42	52.70	
16	5/8"	-10	M24x1,5	-08	12,6	16,0	45,5	84,0	46,5	30	21,1	HCS-16-DKO-16S-090-S-OR-B-B-W3
					.50	.63	1.79	3.31	1.83	1.18	46.42	
16	5/8"	-10	M36x2	-12	12,6	16,0	61,5	100,0	64,5	41	41,8	HCS-16-DKO-25S-090-S-OR-B-B-W3
					.50	.63	2.42	3.94	2.54	1.61	92.17	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **Mobile Interlocking Protection** Page 88

 **Straight Version** Pages 30-31

 **45° Version** Pages 32-33

 **ECOVOS VA Version** Page 112

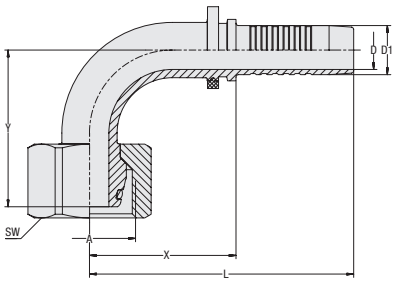
 **MULTIVOS Version** Page 149

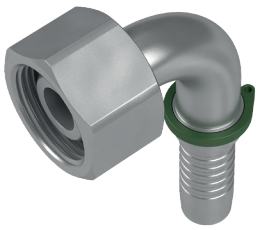
90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOS 90° (Heavy Series)

Connection Type Female Metric Nut Thread
Sealing Type 24° Taper with O-Ring
Standard ISO 8434-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
19	3/4"	-12	M36x2	-12	14,8	19,1	57,0	102,5	58,5	41	37,5	HCS-19-DKO-25S-090-S-OR-B-M-W3
					.58	.75	2.24	4.04	2.30	1.61	82.69	
19	3/4"	-12	M36x2	-12	14,8	19,1	57,0	102,5	58,5	46	37,5	HCS-19-DKO-25S-090-S-OR-B-M-W3-SW46
					.58	.75	2.24	4.04	2.30	1.81	82.69	
19	3/4"	-12	M30x2	-10	14,8	19,1	56,0	102,0	58,0	36	33,1	HCS-20-DKO-20S-090-S-OR-B-B-W3
					.58	.75	2.20	4.02	2.28	1.42	72.88	
19	3/4"	-12	M42x2	-16	14,8	19,1	62,0	108,0	65,0	50	56,1	HCS-20-DKO-25S-090-S-OR-B-B-W3
					.58	.75	2.44	4.25	2.56	1.97	123.70	
25	1"	-16	M42x2	-16	20,0	25,9	70,5	125,5	74,0	50	66,2	HCS-25-DKO-30S-090-S-OR-B-M-W3
					.79	1.02	2.78	4.94	2.91	1.97	145.86	
25	1"	-16	M36x2	-12	20,0	25,9	63,0	118,0	64,5	41	51,6	HCS-25-DKO-25S-090-S-OR-B-B-W3
					.79	1.02	2.48	4.65	2.54	1.61	113.78	
25	1"	-16	M52x2	-20	20,0	25,9	73,0	128,0	77,5	60	91,3	HCS-25-DKO-38S-090-S-OR-B-B-W3
					.79	1.02	2.87	5.04	3.05	2.36	201.32	
31	1 1/4"	-20	M52x2	-16	26,0	32,5	88,0	147,5	87,0	60	105,6	HCS-31-DKO-38S-090-S-OR-B-M-W3
					1.02	1.28	3.46	5.81	3.43	2.36	232.74	
31	1 1/4"	-20	M42x2	-16	26,0	32,5	75,5	135,5	75,0	50	84,4	HCS-31-DKO-30S-090-S-OR-B-B-W3
					1.02	1.28	2.97	5.33	2.95	1.97	186.10	
38	1 1/2"	-24	M52x2	-20	31,0	38,9	93,5	161,0	93,5	60	129,8	HCS-38-DKO-38S-090-S-OR-B-B-W3
					1.22	1.53	3.68	6.34	3.68	2.36	286.21	

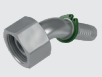
Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


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ECOVOS VA Version Page 112


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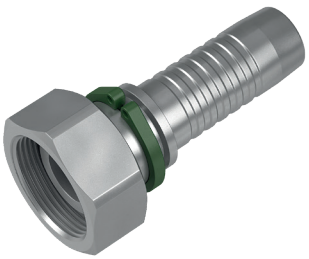
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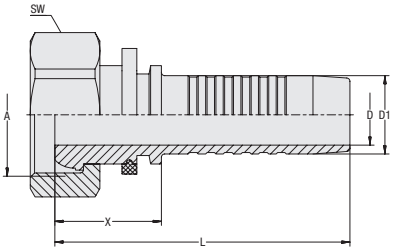
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Straight Insert with Female Metric Nut Thread and Metal Seat
Type DKK





Connection Type Female Metric Nut Thread
Sealing Type 60° Metal Seat (suitable for bore type Y)
Standard DIN 3863-B

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
19	3/4"	-12	M30x1,5	-12	14,8	19,1	26,0	72,0	36	16,5	HCS-19-DKK-22LL-S-M-W3
					.58	.75	1.02	2.83	1.42	36.38	
25	1"	-16	M38x1,5	-16	20,0	25,9	27,0	82,0	46	29,8	HCS-25-DKK-28LL-S-M-W3
					.79	1.02	1.06	3.23	1.81	65.71	
31	1 1/4"	-20	M45x1,5	-20	26,0	32,5	28,0	88,0	50	37,1	HCS-31-DKK-35LL-S-M-W3
					1.02	1.28	1.10	3.46	1.97	81.81	
38	1 1/2"	-24	M52x1,5	-24	31,0	38,9	28,5	96,0	60	56,0	HCS-38-DKK-42LL-S-M-W3
					1.22	1.53	1.12	3.78	2.36	123.48	
51	2"	-32	M65x2	-32	40,0	51,6	32,5	107,5	75	113,2	HCS-51-DKK-50LL-S-M-W3
					1.57	2.03	1.28	4.23	2.95	249.61	

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **45° Version** Page 45

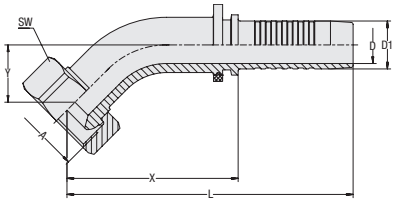
 **90° Version** Page 46

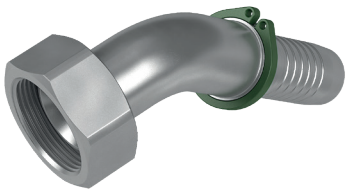
 **ECOVOS VA Version** Page 113

45° Elbow Insert with Female Metric Thread and Metal Seat
Type DKK 45°

Connection Type Female Metric Nut Thread
Sealing Type 60° Metal Seat (suitable for bore type Y)
Standard DIN 3863-B

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
19	3/4"	-12	M30x1,5	-12	14,8	19,1	68,0	114,0	26,0	36	24,4	HCS-19-DKK-22LL-045-S-M-W3
					.58	.75	2.68	4.49	1.02	1.42	53.80	
25	1"	-16	M38x1,5	-16	20,0	25,9	88,5	143,5	32,5	46	46,4	HCS-25-DKK-28LL-045-S-M-W3
					.79	1.02	3.48	5.65	1.28	1.81	102.31	
31	1 1/4"	-20	M45x1,5	-20	26,0	32,5	109,5	169,0	36,0	50	68,7	HCS-31-DKK-35LL-045-S-M-W3
					1.02	1.28	4.31	6.65	1.42	1.97	151.48	
38	1 1/2"	-24	M52x1,5	-24	31,0	38,9	131,5	199,0	52,0	60	116,7	HCS-38-DKK-42LL-045-S-M-W3
					1.22	1.53	5.18	7.83	2.05	2.36	257.32	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

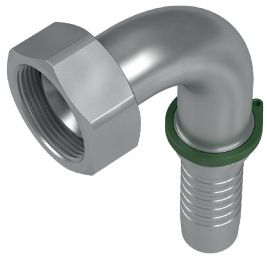

Swage Ferrules Pages 14-21

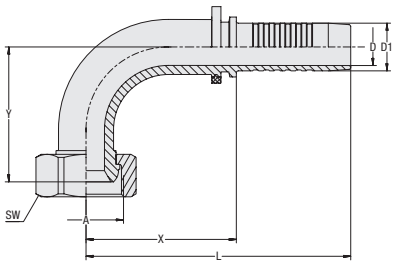

Straight Version Page 44


90° Version Page 46

A

90° Elbow Insert with Female Metric Thread and Metal Seat
Type DKK 90°





Connection Type	Female Metric Nut Thread
Sealing Type	60° Metal Seat (suitable for bore type Y)
Standard	DIN 3863-B
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
19	3/4"	-12	M30x1,5	-12	14,8	19,1	60,2	106,0	54,0	36	28,0	HCS-19-DKK-22LL-090-S-M-W3
					.58	.75	2.37	4.17	2.13	1.42	61.74	
25	1"	-16	M38x1,5	-16	20,0	25,9	78,0	133,0	70,9	46	53,9	HCS-25-DKK-28LL-090-S-M-W3
					.79	1.02	3.07	5.24	2.79	1.81	118.85	
31	1 1/4"	-20	M45x1,5	-20	26,0	32,5	102,0	162,0	81,0	50	81,5	HCS-31-DKK-35LL-090-S-M-W3
					1.02	1.28	4.02	6.38	3.19	1.97	179.71	
38	1 1/2"	-24	M52x1,5	-24	31,0	38,9	112,5	180,0	108,5	60	138,0	HCS-38-DKK-42LL-090-S-M-W3
					1.22	1.53	4.43	7.09	4.27	2.36	304.29	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **Straight Version** Page 44

 **45° Version** Page 45

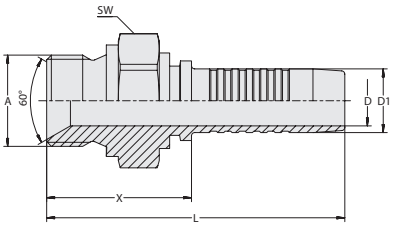
 **ECOVOS VA Version** Page 115

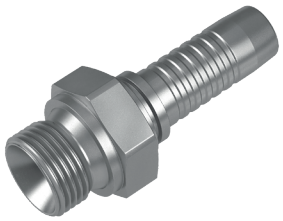
Straight Insert with Male BSPP Thread and 60° Conical Bore Type AGR

Connection Type Male BSPP Thread
Sealing Type 60° Conical Bore
Standard ISO 8434-6, BS 5200

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	G 1/4"	-04	3,9	6,7	29,0	59,0	19	3,9	HCS-06-AGR-04-M-W3
					.15	.26	1.14	2.32	.75	8.49	
06	1/4"	-04	G 3/8"	-06	3,9	6,7	30,5	60,5	22	5,3	HCS-06-AGR-06-M-W3
					.15	.26	1.20	2.38	.87	11.69	
06	1/4"	-04	G 1/2"	-08	3,9	6,7	33,5	64,0	27	8,8	HCS-06-AGR-08-M-W3
					.15	.26	1.32	2.52	1.06	19.29	
08	5/16"	-05	G 1/4"	-04	5,4	8,2	28,5	59,0	19	4,0	HCS-08-AGR-04-M-W3
					.21	.32	1.12	2.32	.75	8.82	
08	5/16"	-05	G 3/8"	-06	5,4	8,2	30,0	60,5	22	5,5	HCS-08-AGR-06-M-W3
					.21	.32	1.18	2.38	.87	12.13	
08	5/16"	-05	G 1/2"	-08	5,4	8,2	33,5	64,0	27	9,0	HCS-08-AGR-08-M-W3
					.21	.32	1.32	2.52	1.06	19.85	
10	3/8"	-06	G 3/8"	-06	6,5	9,9	30,0	63,5	22	6,3	HCS-10-AGR-06-M-W3
					.26	.39	1.18	2.50	.87	13.78	
10	3/8"	-06	G 1/2"	-08	6,5	9,9	33,5	67,0	27	9,0	HCS-10-AGR-08-M-W3
					.26	.39	1.32	2.64	1.06	19.85	
12	1/2"	-08	G 1/2"	-08	9,5	13,0	34,5	70,0	27	10,1	HCS-12-AGR-08-M-W3
					.37	.51	1.36	2.76	1.06	22.27	
12	1/2“	-08	G 3/8"	-06	9,5	13,0	31,0	66,5	22	6,7	HCS-12-AGR-06-M-W3
					.26	.38	1.10	2.74	.87	14.99	
12	1/2“	-08	G 5/8"	-10	9,5	13,0	36,5	72,0	28	11,7	HCS-12-AGR-10-M-W3
					.37	.51	1.44	2.83	1.10	25.69	
12	1/2“	-08	G 3/4"	-12	9,5	13,0	37,0	72,6	32	13,3	HCS-12-AGR-12-M-W3
					.37	.51	1.46	2.86	1.26	29.33	
16	5/8"	-10	G 5/8"	-10	12,6	16,0	36,5	75,0	30	12,4	HCS-16-AGR-10-M-W3
					.50	.63	1.44	2.95	1.18	27.34	
16	5/8"	-10	G 3/4"	-12	12,6	16,0	37,5	76,0	32	13,9	HCS-16-AGR-12-M-W3
					.50	.63	1.48	2.99	1.26	30.65	
19	3/4"	-12	G 3/4"	-12	14,8	19,1	38,0	84,0	32	16,6	HCS-19-AGR-12-M-W3
					.58	.75	1.50	3.31	1.26	36.60	
19	3/4"	-12	G 1"	-16	14,8	19,1	42,0	88,0	41	24,4	HCS-19-AGR-16-M-W3
					.58	.75	1.65	3.46	1.61	53.69	
25	5/16"	-05	G 1"	-16	20,0	25,9	43,0	98,5	41	30,8	HCS-25-AGR-16-M-W3
					.79	1.02	1.69	3.88	1.61	67.91	
25	5/16"	-05	G 1 1/4"	-20	20,0	25,9	45,5	100,5	50	40,2	HCS-25-AGR-20-M-W3
					.79	1.02	1.79	3.96	1.97	88.64	
31	1 1/4"	-20	G 1 1/4"	-20	26,0	32,5	46,5	106,5	50	47,1	HCS-31-AGR-20-M-W3
					1.02	1.28	1.83	4.19	1.97	103.90	
38	1 1/2"	-24	G 1 1/2"	-24	31,0	38,9	52,5	120,5	55	69,3	HCS-38-AGR-24-M-W3
					1.22	1.53	2.07	4.74	2.17	152.81	
51	2"	-32	G 2"	-32	40,0	51,6	60,0	135,5	70	134,6	HCS-51-AGR-32-M-W3
					1.57	2.03	2.36	5.33	2.76	296.79	

Related Products and Accessories


Swage Ferrules Pages 14-21

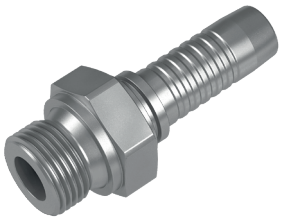

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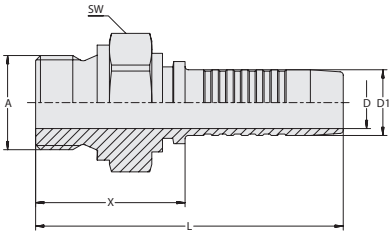

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Mobile Interlocking Protection Page 88

A

Straight Insert with Male BSPP Thread
Type AGRF





Connection Type Male BSPP Thread
Sealing Type Sealing Surface

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	G 1/4"	-04	3,9	6,7	19,5	54,5	19	3,1	HCS-06-AGRF-04-M-W3
					.15	.26	.77	2.15	.75	6.90	
10	3/8"	-06	G 1/4"	-04	6,5	9,9	20,0	58,3	19	3,7	HCS-10-AGRF-04-M-W3
					.26	.39	.79	2.30	.75	8.16	
10	3/8"	-06	G 3/8"	-06	6,5	9,9	23,3	61,6	22	5,6	HCS-10-AGRF-06-M-W3
					.26	.39	.92	2.43	.87	12.35	
10	3/8"	-06	G 1/2"	-08	6,5	9,9	25,9	64,2	27	8,5	HCS-10-AGRF-08-M-W3
					.26	.39	1.02	2.53	1.06	18.74	
12	1/2"	-08	G 3/8"	-06	9,5	13,0	22,7	63,7	22	5,8	HCS-12-AGRF-06-M-W3
					.37	.51	.89	2.51	.87	12.79	
12	1/2"	-08	G 1/2"	-08	9,5	13,0	25,3	66,3	27	8,5	HCS-12-AGRF-08-M-W3
					.37	.51	1.00	2.61	1.06	18.74	
12	1/2"	-08	G 3/4"	-12	9,5	13,0	30,6	71,6	32	14,5	HCS-12-AGRF-12-M-W3
					.37	.51	1.20	2.82	1.26	31.97	
16	5/8"	-10	G 3/4"	-12	12,6	16,0	30,6	74,6	32	14,0	HCS-16-AGRF-12-M-W3
					.50	.63	1.20	2.94	1.26	30.87	
19	3/4"	-12	G 3/4"	-12	14,8	19,1	30,7	82,7	32	15,0	HCS-19-AGRF-12-M-W3
					.58	.75	1.21	3.26	1.26	33.08	
19	3/4"	-12	G 1"	-16	14,8	19,1	36,5	88,5	41	28,5	HCS-19-AGRF-16-M-W3
					.58	.75	1.44	3.48	1.61	62.84	
25	1"	-16	G 1"	-16	20,0	25,9	37,8	99,8	41	30,9	HCS-25-AGRF-16-M-W3
					.79	1.02	1.49	3.93	1.61	68.13	
25	1"	-16	G 1 1/4"	-20	20,0	25,9	40,2	102,2	50	48,7	HCS-25-AGRF-20-M-W3
					.79	1.02	1.58	4.02	1.97	107.38	
31	1 1/4"	-20	G 1 1/4"	-20	26,0	32,5	48,2	108,2	50	48,6	HCS-31-AGRF-20-M-W3
					1.02	1.28	1.90	4.26	1.97	107.16	

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **Mobile Interlocking Protection** Page 88

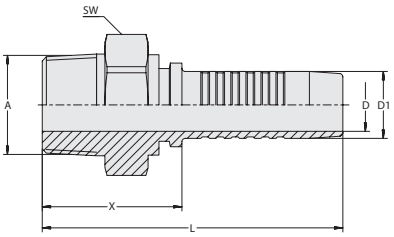
 **ECOVOS VA Version** Page 118

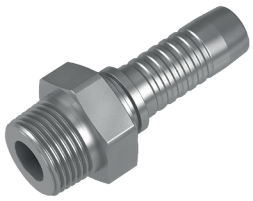
Straight Insert with Male BSPT Thread
Type AGRK

Connection Type Male BSPT Thread
Sealing Type Tapered Thread

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	R 1/8"	-03	3,9	6,7	23,4	53,6	14	2,0	HCS-06-AGRK-03-M-W3
					.15	.26	.92	2.11	.55	4.41	
06	1/4"	-04	R 1/4"	-04	3,9	6,7	30,8	61,0	17	3,1	HCS-06-AGRK-04-M-W3
					.15	.26	1.21	2.40	.67	6.84	
06	1/4"	-04	R 3/8"	-06	3,9	6,7	30,5	60,7	19	4,8	HCS-06-AGRK-06-M-W3
					.15	.26	1.20	2.39	.75	10.58	
08	5/16"	-05	R 3/8"	-06	5,4	8,0	30,9	61,1	19	4,5	HCS-08-AGRK-06-M-W3
					.21	.31	1.22	2.41	.75	9.92	
10	3/8"	-06	R 3/8"	-06	6,5	9,6	30,3	63,8	19	5,1	HCS-10-AGRK-06-M-W3
					.26	.38	1.19	2.51	.75	11.25	
10	3/8"	-06	R 1/2"	-08	6,5	9,6	36,7	70,2	22	8,6	HCS-10-AGRK-08-M-W3
					.26	.38	1.44	2.76	.87	18.96	
12	1/2"	-08	R 1/2"	-08	9,5	12,8	37,4	72,9	22	8,6	HCS-12-AGRK-08-M-W3
					.37	.50	1.47	2.87	.87	18.96	
16	5/8"	-10	R 5/8"	-10	12,6	16,0	39,3	77,8	27	11,3	HCS-16-AGRK-10-M-W3
					.50	.63	1.55	3.06	1.06	24.92	
16	5/8"	-10	R 3/4"	-12	12,6	16,0	41,6	80,1	30	15,0	HCS-16-AGRK-12-M-W3
					.50	.63	1.64	3.15	1.18	33.08	
19	3/4"	-12	R 3/4"	-12	14,8	19,1	40,6	86,6	30	15,8	HCS-19-AGRK-12-M-W3
					.58	.75	1.60	3.41	1.18	34.84	
25	1"	-16	R 1"	-16	20,0	25,9	55,2	104,3	36	28,6	HCS-25-AGRK-16-M-W3
					.79	1.02	2.17	4.11	1.42	63.06	
31	1 1/4"	-20	R 1 1/4"	-20	26,0	32,5	60,0	116,0	46	50,0	HCS-31-AGRK-20-M-W3
					1.02	1.28	2.36	4.57	1.81	110.25	
38	1 1/2"	-24	R 1 1/2"	-24	31,0	38,9	57,8	125,5	50	66,5	HCS-38-AGRK-24-M-W3
					1.22	1.53	2.28	4.94	1.97	146.63	

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

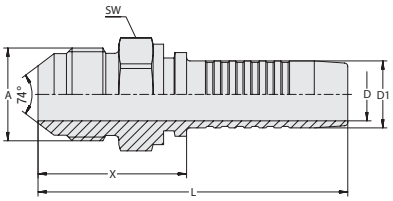
 **Mobile Interlocking Protection** Page 88

 **ECOVOS VA Version** Page 119

A

Straight Insert with Male UN/UNF Thread and 74° Taper
Type AGJ





Connection Type Male UN/UNF Thread
Sealing Type 74° Taper
Standard ISO 8434-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	7/16"-20 UNF	-04	3,9	6,7	28,0	58,0	14	2,4	HCS-06-AGJ-04-M-W3
					.15	.26	1.10	2.28	.55	.09	
06	1/4"	-04	1/2"-20 UNF	-05	3,9	6,7	28,0	58,0	14	2,5	HCS-06-AGJ-05-M-W3
					.15	.26	1.10	2.28	.55	.10	
06	1/4"	-04	9/16"-18 UNF	-06	3,9	6,7	28,0	58,0	17	3,1	HCS-06-AGJ-06-M-W3
					.15	.26	1.10	2.28	.67	.12	
08	5/16"	-05	1/2"-20 UNF	-05	5,4	8,2	28,0	58,0	14	2,7	HCS-08-AGJ-05-M-W3
					.21	.32	1.10	2.28	.55	.11	
08	5/16"	-05	9/16"-18 UNF	-06	5,4	8,2	28,0	58,0	17	3,2	HCS-08-AGJ-06-M-W3
					.21	.32	1.10	2.28	.67	.12	
08	5/16"	-05	3/4"-16 UNF	-08	5,4	8,2	31,5	62,0	22	5,3	HCS-08-AGJ-08-M-W3
					.21	.32	1.24	2.44	.87	.21	
10	3/8"	-06	9/16"-18 UNF	-06	6,5	9,9	28,0	61,5	17	3,9	HCS-10-AGJ-06-M-W3
					.26	.39	1.10	2.42	.67	.15	
10	3/8"	-06	1/2"-20 UNF	-05	6,5	9,9	29,0	62,5	14	3,1	HCS-10-AGJ-05-M-W3
					.26	.39	1.14	2.46	.55	.12	
10	3/8"	-06	3/4"-16 UNF	-08	6,5	9,9	31,5	65,0	22	5,9	HCS-10-AGJ-08-M-W3
					.26	.39	1.24	2.56	.87	.23	
10	3/8"	-06	7/8"-14 UNF	-10	6,5	9,9	35,0	68,5	24	7,5	HCS-10-AGJ-10-M-W3
					.26	.39	1.38	2.70	.94	.29	
12	1/2"	-08	3/4"-16 UNF	-08	9,5	13,0	32,5	68,0	22	6,7	HCS-12-AGJ-08-M-W3
					.37	.51	1.28	2.68	.87	.26	
12	1/2"	-08	7/8"-14 UNF	-10	9,5	13,0	35,5	71,0	24	8,3	HCS-12-AGJ-10-M-W3
					.37	.51	1.40	2.80	.94	.32	
12	1/2"	-08	1 1/16"-12 UN	-12	9,5	13,0	40,0	75,5	30	13,0	HCS-12-AGJ-12-M-W3
					.37	.51	1.57	2.97	1.18	.51	
16	5/8"	-10	7/8"-14 UNF	-10	12,6	16,0	35,5	74,0	24	8,8	HCS-16-AGJ-10-M-W3
					.50	.63	1.40	2.91	.94	.34	
16	5/8"	-10	1 1/16"-12 UN	-12	12,6	16,0	40,0	78,5	30	13,2	HCS-16-AGJ-12-M-W3
					.50	.63	1.57	3.09	1.18	.52	
19	3/4"	-12	1 1/16"-12 UN	-12	14,8	19,1	40,5	86,5	30	15,5	HCS-19-AGJ-12-M-W3
					.58	.75	1.59	3.41	1.18	.61	
19	3/4"	-12	1 5/16"-12 UN	-16	14,8	19,1	43,0	89,0	36	20,4	HCS-19-AGJ-16-M-W3
					.58	.75	1.69	3.50	1.42	.80	
25	1"	-16	1 5/16"-12 UN	-16	20,0	25,9	44,5	99,5	36	22,6	HCS-25-AGJ-16-M-W3
					.79	1.02	1.75	3.92	1.42	.89	
25	1"	-16	1 5/8"-12 UN	-20	20,0	25,9	48,0	103,0	46	44,0	HCS-25-AGJ-20-M-W3
					.79	1.02	1.89	4.06	1.81	1.73	
31	1 1/4"	-20	1 5/8"-12 UN	-20	26,0	32,5	49,0	109,0	46	43,6	HCS-31-AGJ-20-M-W3
					1.02	1.28	1.93	4.29	1.81	1.72	
31	1 1/4"	-20	1 7/8"-12 UN	-24	26,0	32,5	54,0	114,0	50	60,3	HCS-31-AGJ-24-M-W3
					1.02	1.28	2.13	4.49	1.97	2.37	
38	1 1/2"	-24	1 7/8"-12 UN	-24	31,0	38,9	55,5	123,0	50	61,1	HCS-38-AGJ-24-M-W3
					1.22	1.53	2.19	4.84	1.97	2.41	
51	2"	-32	2.1/2"-12 UN	-32	40,0	51,6	67,0	142,0	65	129,0	HCS-51-AGJ-32-M-W3
					1.57	2.03	2.64	5.59	2.56	5.08	

Related Products and Accessories


Swage Ferrules Pages 14-21


ECOVOS VA Version Page 117


MULTIVOS Version Page 151

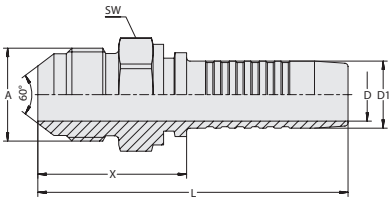

Mobile Interlocking Protection Page 88

Straight Insert with Male BSPP Thread and 60° Taper Type AGJG

Connection Type Male BSPP Thread
Sealing Type 60° Taper
Standard JIS 8363 (KOMATSU)

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal size DN 19)





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	G 1/4"	-04	3,9	6,7	28,3	58,5	17	3,2	HCS-06-AGJG-04-M-W3-KOM
					.15	.26	1.11	2.30	.67	.12	
08	5/16"	-05	G 3/8"	-06	5,4	8,2	31,3	61,5	19	4,0	HCS-08-AGJG-06-M-W3-KOM
					.21	.32	1.23	2.42	.75	.16	
10	3/8"	-06	G 3/8"	-06	6,5	9,9	31,3	64,8	19	5,3	HCS-10-AGJG-06-M-W3-KOM
					.26	.39	1.23	2.55	.75	.21	
12	1/2"	-08	G 1/2"	-08	9,5	13,0	35,6	71,1	22	5,9	HCS-12-AGJG-08-M-W3-KOM
					.37	.51	1.40	2.80	.87	.23	
19	3/4"	-12	G 3/4"	-12	14,8	19,1	39,7	85,7	30	13,1	HCS-19-AGJG-12-M-W3-KOM
					.58	.75	1.56	3.37	1.18	.52	

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

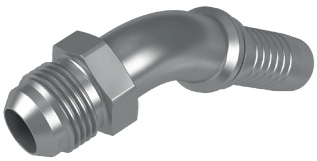
 **Mobile Interlocking Protection** Page 88

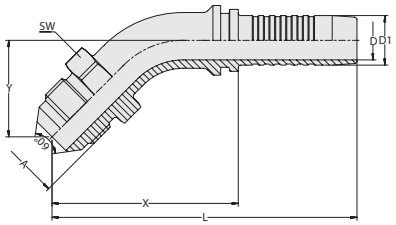
 **45° Version** Page 52

 **90° Version** Page 53

A

45° Elbow Insert with Male BSPP Thread and 60° Taper
Type AGJG 45°





Connection Type Male BSPP Thread
Sealing Type 60° Taper
Standard JIS 8363 (KOMATSU)

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal size DN 19)

Hose Size			Connection Size		Dimensions ($^{mm}/_{in}$)						Weight ($^{kg}/_{lbs}$) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	G 1/4"	-04	3,9	6,7	50,4	80,6	26,5	17	3,6	HCS-06-AGJG-04-045-M-W3-KOM
					.15	.26	1.98	3.17	1.04	.67	7.94	
08	5/16"	-05	G 3/8"	-06	5,4	8,2	51,3	81,5	28,0	19	5,0	HCS-08-AGJG-06-045-M-W3-KOM
					.21	.32	2.02	3.21	1.10	.75	10.91	
10	3/8"	-06	G 3/8"	-06	6,5	9,9	53,4	87,2	25,5	19	6,5	HCS-10-AGJG-06-045-M-W3-KOM
					.26	.39	2.10	3.43	1.00	.75	14.33	
12	1/2"	-08	G 1/2"	-08	9,5	13,0	55,4	90,9	29,0	22	7,2	HCS-12-AGJG-08-045-M-W3-KOM
					.37	.51	2.18	3.58	1.14	.87	15.88	
19	3/4"	-12	G 3/4"	-12	14,8	19,1	72,2	118,7	39,5	30	15,9	HCS-19-AGJG-12-045-M-W3-KOM
					.58	.75	2.84	4.67	1.56	1.18	35.06	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **Mobile Interlocking Protection** Page 88

 **Straight Version** Page 51

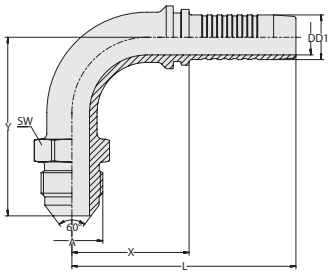
 **90° Version** Page 53

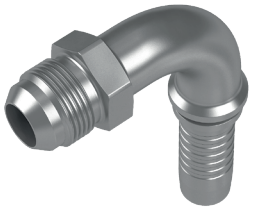
90° Elbow Insert with Male BSPP Thread and 60° Taper
Type AGJG 90°

Connection Type Male BSPP Thread
Sealing Type 60° Taper
Standard JIS 8363 (KOMATSU)

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal size DN 19)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	G 1/4"	-04	3,9	6,7	32,8	63,0	46,1	17	3,9	HCS-06-AGJG-04-090-M-W3-KOM
					.15	.26	1.29	2.48	1.81	.67	8.60	
08	5/16"	-05	G 3/8"	-06	5,4	8,2	32,3	62,5	48,0	19	5,4	HCS-08-AGJG-06-090-M-W3-KOM
					.21	.32	1.27	2.46	1.89	.75	11.91	
10	3/8"	-06	G 3/8"	-06	6,5	9,9	37,0	70,5	51,9	19	7,7	HCS-10-AGJG-06-090-M-W3-KOM
					.26	.39	1.46	2.78	2.04	.75	16.98	
12	1/2"	-08	G 1/2"	-08	9,5	13,0	38,5	74,0	53,6	22	8,4	HCS-12-AGJG-08-090-M-W3-KOM
					.37	.51	1.52	2.91	2.11	.87	18.41	
19	3/4"	-12	G 3/4"	-12	14,8	19,1	62,8	108,8	74,9	30	18,4	HCS-19-AGJG-12-090-M-W3-KOM
					.58	.75	2.47	4.28	2.95	1.18	40.57	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **Mobile Interlocking Protection** Page 88

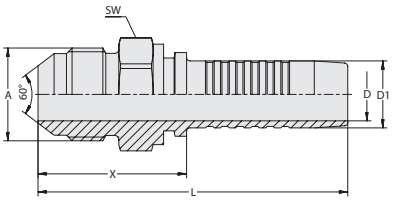
 **Straight Version** Page 51

 **45° Version** Page 52

A

Straight Insert with Male Metric Thread and 60° Taper Type AGJM





Connection Type Male Metric Thread
Sealing Type 60° Taper
Standard JIS 8363 (KOMATSU)

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)

Hose Size			Connection Size	Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	M14x1,5	3,9	6,7	29,6	59,8	14	2,7	HCS-06-AGJM-M14-M-W3-KOM
				.15	.26	1.17	2.35	.55	5.95	
06	1/4"	-04	M16x1,5	3,9	6,7	30,6	60,8	17	4,0	HCS-06-AGJM-M16-M-W3-KOM
				.15	.26	1.20	2.39	.67	8.82	
10	3/8"	-06	M16x1,5	6,5	9,9	30,6	69,1	17	4,0	HCS-10-AGJM-M16-M-W3-KOM
				.26	.39	1.20	2.72	.67	8.82	
10	3/8"	-06	M18x1,5	6,5	9,9	31,4	64,9	19	5,0	HCS-10-AGJM-M18-M-W3-KOM
				.26	.39	1.24	2.56	.75	11.03	
10	3/8"	-06	M20x1,5	6,5	9,9	34,6	68,1	22	7,0	HCS-10-AGJM-M20-M-W3-KOM
				.26	.39	1.36	2.68	.87	15.44	
12	1/2"	-08	M22x1,5	9,5	13,0	36,2	71,7	22	8,2	HCS-12-AGJM-M22-M-W3-KOM
				.37	.51	1.43	2.82	.87	18.08	
12	1/2"	-08	M24x1,5	9,5	13,0	38,4	73,9	24	10,2	HCS-12-AGJM-M24-M-W3-KOM
				.37	.51	1.51	2.91	.94	22.49	
16	5/8"	-10	M24x1,5	12,6	16,0	39,0	77,5	24	9,7	HCS-16-AGJM-M24-M-W3-KOM
				.50	.63	1.54	3.05	.94	21.39	
16	5/8"	-10	M28x1,5	12,6	16,0	42,2	80,7	30	15,3	HCS-16-AGJM-M28-M-W3-KOM
				.50	.63	1.66	3.18	1.18	33.74	
19	3/4"	-12	M30x1,5	14,8	19,1	44,8	90,8	30	18,3	HCS-19-AGJM-M30-M-W3-KOM
				.58	.75	1.76	3.57	1.18	40.35	
25	1"	-16	M33x1,5	20,0	25,9	53,5	108,7	36	28,2	HCS-25-AGJM-M33-M-W3-KOM
				.79	1.02	2.11	4.28	1.42	62.18	
31	1 1/4"	-20	M36x1,5	26,0	32,5	58,2	118,2	41	42,1	HCS-31-AGJM-M36-M-W3-KOM
				1.02	1.28	2.29	4.65	1.61	92.83	
38	1 1/2"	-24	M42x1,5	31,0	38,9	60,6	128,3	46	52,7	HCS-38-AGJM-M42-M-W3-KOM
				1.22	1.53	2.39	5.05	1.81	116.20	

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

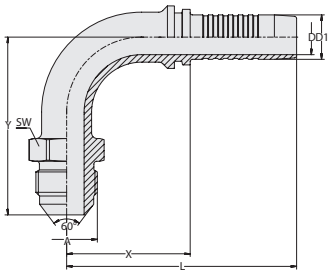
 **Mobile Interlocking Protection** Page 88

 **90° Version** Page 55

90° Elbow Insert with Male Metric Thread and 60° Taper
Type AGJM 90°

Connection Type Male Metric Thread
Sealing Type 60° Taper
Standard JIS 8363 (KOMATSU)

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size	Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	D	D1	X	L	Y	SW (Hex)	per 100	
10	3/8"	-06	M18x1,5	6,5	9,9	37,0	70,5	52,5	19	8,3	HCS-10-AGJM-M18-090-M-W3-KOM
				.26	.39	1.46	2.78	2.07	.75	18.30	
10	3/8"	-06	M20x1,5	6,5	9,9	37,0	70,5	55,7	22	10,2	HCS-10-AGJM-M20-090-M-W3-KOM
				.26	.39	1.46	2.78	2.19	.87	22.49	
12	1/2"	-08	M20x1,5	9,5	13,0	38,5	74,0	55,7	22	11,4	HCS-12-AGJM-M20-090-M-W3-KOM
				.37	.51	1.52	2.91	2.19	.87	25.14	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

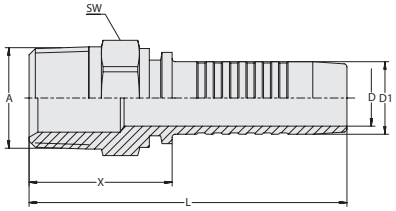

Swage Ferrules Pages 14-21


Straight Version Page 54

A

Straight Insert with Male NPTF Thread and 60° Conical Bore
Type AGN





Connection Type Male NPTF Thread
Sealing Type Tapered Thread and 60° Conical Bore
Standard SAE J 516

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	1/4"-18 NPTF	-04	3,9	6,7	28,0	58,0	14	2,8	HCS-06-AGN-04-M-W3
					.15	.26	1.10	2.28	.55	6.06	
06	1/4"	-04	1/8"-27 NPTF	-03	3,9	6,7	23,0	53,0	12	1,9	HCS-06-AGN-03-M-W3
					.15	.26	.91	2.09	.47	4.08	
06	1/4"	-04	3/8"-18 NPTF	-06	3,9	6,7	28,5	58,5	19	3,9	HCS-06-AGN-06-M-W3
					.15	.26	1.12	2.30	.75	8.49	
08	5/16"	-05	1/4"-18 NPTF	-04	5,4	8,2	28,0	58,0	14	3,0	HCS-08-AGN-04-M-W3
					.21	.32	1.10	2.28	.55	6.50	
08	5/16"	-05	3/8"-18 NPTF	-06	5,4	8,2	28,5	59,0	19	4,1	HCS-08-AGN-06-M-W3
					.21	.32	1.12	2.32	.75	8.93	
10	3/8"	-06	3/8"-18 NPTF	-06	6,5	9,9	28,5	62,0	19	4,6	HCS-10-AGN-06-M-W3
					.26	.39	1.12	2.44	.75	10.14	
10	3/8"	-06	1/4"-18 NPTF	-04	6,5	9,9	29,0	62,5	14	3,6	HCS-10-AGN-04-M-W3
					.26	.39	1.14	2.46	.55	7.83	
10	3/8"	-06	1/2"-14 NPTF	-08	6,5	9,9	34,5	68,0	22	6,7	HCS-10-AGN-08-M-W3
					.26	.39	1.36	2.68	.87	14.77	
12	5/16"	-05	1/2"-14 NPTF	-08	9,5	13,0	35,0	70,5	22	7,5	HCS-12-AGN-08-M-W3
					.37	.51	1.38	2.78	.87	16.54	
12	5/16"	-05	3/8"-18 NPTF	-06	9,5	13,0	29,5	65,0	19	5,6	HCS-12-AGN-06-M-W3
					.37	.51	1.16	2.56	.75	12.35	
12	5/16"	-05	3/4"-14 NPTF	-12	9,5	13,0	37,0	72,5	27	10,4	HCS-12-AGN-12-M-W3
					.37	.51	1.46	2.85	1.06	22.82	
16	5/8"	-10	1/2"-14 NPTF	-08	12,6	16,0	36,0	74,5	22	8,4	HCS-16-AGN-08-M-W3
					.50	.63	1.42	2.93	.87	18.52	
16	5/8"	-10	3/4"-14 NPTF	-12	12,6	16,0	37,0	75,5	27	11,1	HCS-16-AGN-12-M-W3
					.50	.63	1.46	2.97	1.06	24.37	
19	3/4"	-12	3/4"-14 NPTF	-12	14,8	19,1	37,5	83,5	27	13,0	HCS-19-AGN-12-M-W3
					.58	.75	1.48	3.29	1.06	28.67	
19	3/4"	-12	1"-11,5 NPTF	-16	14,8	19,1	42,5	88,5	36	20,6	HCS-19-AGN-16-M-W3
					.58	.75	1.67	3.48	1.42	45.42	
25	5/16"	-05	1"-11,5 NPTF	-16	20,0	25,9	44,0	99,0	36	24,8	HCS-25-AGN-16-M-W3
					.79	1.02	1.73	3.90	1.42	54.68	
25	1"	-16	3/4"-14 NPTF	-12	20,0	25,9	39,0	94,0	32	20,4	HCS-25-AGN-12-M-W3
					.79	1.02	1.54	3.70	1.26	44.98	
25	5/16"	-05	1 1/4"-11,5 NPTF	-20	20,0	25,9	46,0	101,0	46	33,4	HCS-25-AGN-20-M-W3
					.79	1.02	1.81	3.98	1.81	73.65	
31	1 1/4"	-20	1 1/4"-11,5 NPTF	-20	26,0	32,5	47,0	107,0	46	39,1	HCS-31-AGN-20-M-W3
					1.02	1.28	1.85	4.21	1.81	86.11	
38	1 1/2"	-24	1 1/2"-11,5 NPTF	-24	31,0	38,9	51,0	118,5	50	53,7	HCS-38-AGN-24-M-W3
					1.22	1.53	2.01	4.67	1.97	118.41	
51	2"	-32	2"-11,5 NPTF	-32	40,0	51,6	56,0	131,0	65	119,6	HCS-51-AGN-32-M-W3
					1.57	2.03	2.20	5.16	2.56	263.61	

Related Products and Accessories


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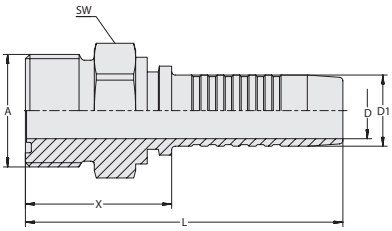

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Straight Insert with O-Ring Face Seal Connection Type ORFS

Connection Type Male UN/UNF Thread
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard ISO 8434-3

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection
(nominal sizes DN 16 to DN 31)





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	9/16-18 UNF	-04	3,9	6,7	24,5	54,5	17	3,0	HCS-06-ORFS-04-M-W3
					.15	.26	.96	2.15	.67	6.62	
10	3/8"	-06	11/16-16 UN	-06	6,5	9,9	26,5	60,0	22	5,8	HCS-10-ORFS-06-M-W3
					.26	.39	1.04	2.36	.87	12.79	
10	3/8"	-06	13/16-16 UN	-08	6,5	9,9	28,0	61,5	22	6,8	HCS-10-ORFS-08-M-W3
					.26	.39	1.10	2.42	.87	14.99	
10	3/8"	-06	1-14 UNS	-10	6,5	9,9	32,0	65,5	27	9,9	HCS-10-ORFS-10-M-W3
					.26	.39	1.26	2.58	1.06	21.72	
12	1/2"	-08	13/16-16 UN	-08	9,5	13,0	30,5	64,5	22	7,1	HCS-12-ORFS-08-M-W3
					.37	.51	1.20	2.54	.87	15.66	
16	5/8"	-10	1-14 UNS	-10	12,6	16,0	35,0	73,5	30	12,5	HCS-16-ORFS-10-M-W3
					.50	.63	1.38	2.89	1.18	27.56	
16	5/8"	-10	1 3/16-12 UN	-12	12,6	16,0	35,0	73,5	32	16,7	HCS-16-ORFS-12-M-W3
					.50	.63	1.38	2.89	1.26	36.71	
19	3/4"	-12	1 3/16-12 UN	-12	14,8	19,1	37,5	81,8	36	17,2	HCS-19-ORFS-12-M-W3
					.58	.75	1.48	3.22	1.42	37.93	
25	1"	-16	1 7/16-12 UN	-16	20,0	25,9	43,0	98,5	41	28,5	HCS-25-ORFS-16-M-W3
					.79	1.02	1.69	3.88	1.61	62.84	
31	1 1/4"	-20	1 11/16-12 UN	-20	26,0	32,5	43,5	103,5	46	44,6	HCS-31-ORFS-20-M-W3
					1.02	1.28	1.71	4.07	1.81	98.23	
38	1 1/2"	-24	2 -12 UN	-24	31,0	38,9	44,0	111,5	55	65,6	HCS-38-ORFS-24-M-W3
					1.22	1.53	1.73	4.39	2.17	144.54	

Related Products and Accessories

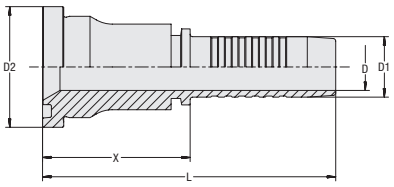

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Mobile Interlocking Protection Page 88

A

Straight Insert with SAE Flange Adaptor
Type SFL (3000 PSI Series)





Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection
(nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	per 100	
12	1/2"	-8	1/2"	-08	9,5	13,0	30,2	45,5	81,0	11,7	HCS-12-SFL-08-M-W3
					.37	.51	1.19	1.79	3.19	25.80	
12	1/2"	-8	3/4"	-12	9,5	13,0	38,1	57,5	93,0	19,4	HCS-12-SFL-12-B-W3
					.37	.51	1.50	2.26	3.66	42.78	
12	1/2"	-8	1"	-16	9,5	13,0	44,5	57,5	93,0	24,8	HCS-12-SFL-16-B-W3
					.37	.51	1.75	2.26	3.66	54.68	
16	5/8"	-10	3/4"	-12	12,6	16,0	38,1	46,0	84,5	17,8	HCS-16-SFL-12-M-W3
					.50	.63	1.50	1.81	3.33	39.25	
16	5/8"	-10	1/2"	-08	12,6	16,0	30,2	54,5	93,0	14,4	HCS-16-SFL-08-B-W3
					.50	.63	1.19	2.15	3.66	31.75	
16	5/8"	-10	1"	-16	12,6	16,0	44,5	45,5	84,0	25,1	HCS-16-SFL-16-B-W3
					.50	.63	1.75	1.79	3.31	55.35	
19	3/4"	-12	3/4"	-12	14,8	19,1	38,1	46,5	92,5	21,2	HCS-19-SFL-12-M-W3
					.58	.75	1.50	1.83	3.64	46.75	
19	3/4"	-12	1"	-16	14,8	19,1	44,5	49,0	95,0	29,4	HCS-19-SFL-16-M-W3
					.58	.75	1.75	1.93	3.74	64.72	
19	3/4"	-12	1 1/4"	-20	14,8	19,1	50,8	44,0	90,0	29,0	HCS-19-SFL-20-B-W3
					.58	.75	2.00	1.73	3.54	63.95	
25	1"	-16	1"	-16	20,0	25,9	44,5	48,0	103,0	32,9	HCS-25-SFL-16-M-W3
					.79	1.02	1.75	1.89	4.06	72.54	
25	1"	-16	1 1/4"	-20	20,0	25,9	50,8	68,0	123,5	49,0	HCS-25-SFL-20-M-W3
					.79	1.02	2.00	2.68	4.86	108.05	
25	1"	-16	3/4"	-12	20,0	25,9	38,1	57,0	112,0	31,7	HCS-25-SFL-12-B-W3
					.79	1.02	1.50	2.24	4.41	69.79	
25	1"	-16	1 1/2"	-24	20,0	25,9	60,3	58,0	113,0	50,2	HCS-25-SFL-24-B-W3
					.79	1.02	2.37	2.28	4.45	110.69	
31	1 1/4"	-20	1 1/4"	-20	26,0	32,5	50,8	69,5	129,5	49,9	HCS-31-SFL-20-M-W3
					1.02	1.28	2.00	2.74	5.10	110.03	
31	1 1/4"	-20	1"	-16	26,0	32,5	44,5	59,5	119,5	47,8	HCS-31-SFL-16-B-W3
					1.02	1.28	1.75	2.34	4.70	105.29	
31	1 1/4"	-20	1 1/2"	-24	26,0	32,5	60,3	50,5	110,5	55,1	HCS-31-SFL-24-B-W3
					1.02	1.28	2.37	1.99	4.35	121.50	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,9	60,3	59,5	127,0	64,6	HCS-38-SFL-24-M-W3
					1.22	1.53	2.37	2.34	5.00	142.44	
38	1 1/2"	-24	1 1/4"	-20	31,0	38,9	71,4	64,5	132,0	65,40	HCS-38-SFL-20-B-W3
					1.22	1.53	2.81	2.54	5.20	144.21	
38	1 1/2"	-24	2"	-32	31,0	38,9	71,4	51,5	119,0	83,20	HCS-38-SFL-32-B-W3
					1.22	1.53	2.81	2.03	4.69	183.46	
51	2"	-32	2"	-32	40,0	51,6	71,4	72,0	147,0	127,85	HCS-51-SFL-32-M-W3
					1.57	2.03	2.81	2.83	5.79	281.91	
51	2"	-32	1 1/2"	-24	40,0	51,6	60,3	69,5	144,5	120,30	HCS-51-SFL-24-B-W3
					1.57	2.03	2.37	2.74	5.69	265.26	

Related Products and Accessories

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 **45° Version** Page 59

 **90° Version** Page 60

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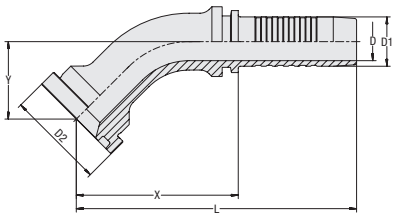
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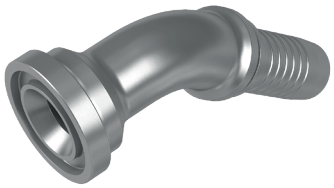
45° Elbow Insert with SAE Flange Adaptor
Type SFL 45° (3000 PSI Series)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection
(nominal sizes DN 16 to DN 31)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
12	1/2"	-08	1/2"	-08	9,5	13,0	30,2	50,0	85,5	20,5	10,6	HCS-12-SFL-08-045-M-W3
					.37	.51	1.19	1.97	3.37	.81	23.26	
12	1/2"	-08	3/4"	-12	9,5	13,0	38,1	55,0	90,5	26,0	15,7	HCS-12-SFL-12-045-M-W3
					.37	.51	1.50	2.17	3.56	1.02	34.62	
16	5/8"	-10	3/4"	-12	12,6	16,0	38,1	60,5	99,0	28,5	18,5	HCS-16-SFL-12-045-M-W3
					.50	.63	1.50	2.38	3.90	1.12	40.79	
16	5/8"	-10	1/2"	-08	12,6	16,0	30,2	63,0	101,5	24,5	16,4	HCS-16-SFL-08-045-B-W3
					.50	.63	1.19	2.48	4.00	.96	36.05	
16	5/8"	-10	1"	-16	12,6	16,0	44,5	69,5	108,0	27,0	30,6	HCS-16-SFL-16-045-B-W3
					.50	.63	1.75	2.74	4.25	1.06	67.47	
19	3/4"	-12	3/4"	-12	14,8	19,1	38,1	62,5	108,5	30,0	22,3	HCS-19-SFL-12-045-M-W3
					.58	.75	1.50	2.46	4.27	1.18	49.17	
19	3/4"	-12	1"	-16	14,8	19,1	44,5	66,5	112,5	29,0	28,8	HCS-19-SFL-16-045-M-W3
					.58	.75	1.75	2.62	4.43	1.14	63.50	
19	3/4"	-12	1 1/4"	-20	14,8	19,1	50,8	72,5	118,5	29,5	35,3	HCS-19-SFL-20-045-B-W3
					.58	.75	2.00	2.85	4.67	1.16	77.73	
25	1"	-16	1"	-16	20,0	25,9	44,5	82,5	137,5	35,0	40,7	HCS-25-SFL-16-045-M-W3
					.79	1.02	1.75	3.25	5.41	1.38	89.74	
25	1"	-16	1 1/4"	-20	20,0	25,9	50,8	92,5	147,5	37,5	48,5	HCS-25-SFL-20-045-M-W3
					.79	1.02	2.00	3.64	5.81	1.48	106.94	
25	1"	-16	3/4"	-12	20,0	25,9	38,1	71,0	126,0	27,0	35,5	HCS-25-SFL-12-045-B-W3
					.79	1.02	1.50	2.80	4.96	1.06	78.28	
25	1"	-16	1 1/2"	-24	20,0	25,9	60,3	79,5	135,0	31,5	58,1	HCS-25-SFL-24-045-B-W3
					.79	1.02	2.37	3.13	5.31	1.24	128.11	
31	1 1/4"	-20	1 1/4"	-20	26,0	32,5	50,8	97,0	157,0	35,0	60,4	HCS-31-SFL-20-045-M-W3
					1.02	1.28	2.00	3.82	6.18	1.38	133.07	
31	1 1/4"	-20	1"	-16	26,0	32,5	44,5	81,5	141,5	30,5	55,6	HCS-31-SFL-16-045-B-W3
					1.02	1.28	1.75	3.21	5.57	1.20	122.60	
31	1 1/4"	-20	1 1/2"	-24	26,0	32,5	60,3	102,5	162,5	40,0	75,4	HCS-31-SFL-24-045-B-W3
					1.02	1.28	2.37	4.04	6.40	1.57	166.15	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,9	60,3	127,5	195,0	44,0	105,5	HCS-38-SFL-24-045-M-W3
					1.22	1.53	2.37	5.02	7.68	1.73	232.52	
38	1 1/2"	-24	1 1/4"	-20	31,0	38,9	50,8	101,5	169,0	39,0	81,1	HCS-38-SFL-20-045-B-W3
					1.22	1.53	2.00	4.00	6.65	1.54	178.72	
38	1 1/2"	-24	2"	-32	31,0	38,9	71,4	113,0	180,5	44,5	110,75	HCS-38-SFL-32-045-B-W3
					1.22	1.53	2.81	4.45	7.11	1.75	244.20	
51	2"	-32	2"	-32	40,0	51,6	71,4	149,0	224,0	67,0	173,20	HCS-51-SFL-32-045-M-W3
					1.57	2.03	2.81	5.87	8.82	2.64	381.91	
51	2"	-32	1 1/2"	-24	40,0	51,6	60,3	116,0	191,5	44,0	142,50	HCS-51-SFL-24-045-B-W3
					1.57	2.03	2.37	4.57	7.54	1.73	314.21	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


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Straight Version Page 58


90° Version Page 60

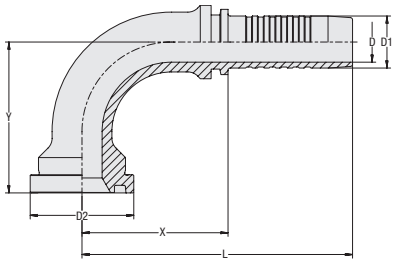

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A

90° Elbow Insert with SAE Flange Adaptor
Type SFL 90° (3000 PSI Series)





Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection
(nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
12	1/2"	-08	1/2"	-08	9,5	13,0	30,2	41,2	76,5	44,5	12,1	HCS-12-SFL-08-090-M-W3
					.37	.51	1.19	1.62	3.01	1.75	26.57	
12	1/2"	-08	3/4"	-12	9,5	13,0	38,1	40,7	76,0	50,5	17,1	HCS-12-SFL-12-090-M-W3
					.37	.51	1.50	1.60	2.99	1.99	37.60	
16	5/8"	-10	3/4"	-12	12,6	16,0	38,1	49,2	87,5	55,5	20,7	HCS-16-SFL-12-090-M-W3
					.50	.63	1.50	1.94	3.44	2.19	45.53	
16	5/8"	-10	1/2"	-08	12,6	16,0	30,2	54,5	93,0	50,0	18,7	HCS-16-SFL-08-090-B-W3
					.50	.63	1.19	2.15	3.66	1.97	41.12	
16	5/8"	-10	1"	-16	12,6	16,0	44,5	61,5	100,0	58,0	34,7	HCS-16-SFL-16-090-B-W3
					.50	.63	1.75	2.42	3.94	2.28	76.51	
19	3/4"	-12	3/4"	-12	14,8	19,1	38,1	53,7	99,5	55,5	25,8	HCS-19-SFL-12-090-M-W3
					.58	.75	1.50	2.11	3.92	2.19	56.78	
19	3/4"	-12	1"	-16	14,8	19,1	44,5	66,0	112,0	61,5	34,7	HCS-19-SFL-16-090-M-W3
					.58	.75	1.75	2.60	4.41	2.42	76.51	
19	3/4"	-12	1 1/4"	-20	14,8	19,1	50,8	62,0	108,0	61,0	39,4	HCS-19-SFL-20-090-B-W3
					.58	.75	2.00	2.44	4.25	2.40	86.77	
25	1"	-16	1"	-16	20,0	25,9	44,5	70,0	125,0	72,0	47,4	HCS-25-SFL-16-090-M-W3
					.79	1.02	1.75	2.76	4.92	2.83	104.41	
25	1"	-16	1 1/4"	-20	20,0	25,9	50,8	82,0	137,0	79,0	58,0	HCS-25-SFL-20-090-M-W3
					.79	1.02	2.00	3.23	5.39	3.11	127.89	
25	1"	-16	3/4"	-12	20,0	25,9	38,1	63,0	118,0	58,0	39,6	HCS-25-SFL-12-090-B-W3
					.79	1.02	1.50	2.48	4.65	2.28	87.32	
25	1"	-16	1 1/2"	-24	20,0	25,9	60,3	73,0	128,0	69,0	65,9	HCS-25-SFL-24-090-B-W3
					.79	1.02	2.37	2.87	5.04	2.72	145.20	
31	1 1/4"	-20	1 1/4"	-20	26,0	32,5	50,8	88,5	148,5	76,5	72,7	HCS-31-SFL-20-090-M-W3
					1.02	1.28	2.00	3.48	5.85	3.01	160.30	
31	1 1/4"	-20	1"	-16	26,0	32,5	44,5	75,5	135,5	68,0	63,4	HCS-31-SFL-16-090-B-W3
					1.02	1.28	1.75	2.97	5.33	2.68	139.69	
31	1 1/4"	-20	1 1/2"	-24	26	32,5	60,3	93,5	153,5	87,0	87,9	HCS-31-SFL-24-090-B-W3
					1.02	1.28	2.37	3.68	6.04	3.43	193.82	
38	1 1/2"	-24	1 1/2"	-24	31	38,9	60,3	116,0	178,5	110,0	130,8	HCS-38-SFL-24-090-M-W3
					1.22	1.53	2.37	4.57	7.03	4.33	288.41	
38	1 1/2"	-24	1 1/4"	-20	31	38,9	50,8	93	161	86	93,6	HCS-38-SFL-20-090-B-W3
					1.22	1.53	2.00	3.66	6.34	3.39	206.39	
38	1 1/2"	-24	2"	-32	31	38,9	71,4	103,5	171	98	127,35	HCS-38-SFL-32-090-B-W3
					1.22	1.53	2.81	4.07	6.73	3.86	280.81	
51	2"	-32	2"	-32	40	51,6	71,4	127,5	200	140	205,8	HCS-51-SFL-32-090-M-W3
					1.57	2.03	2.81	5.02	7.87	5.51	453.79	
51	2"	-32	1 1/2"	-24	40	51,6	60,3	107,5	182,5	97	159,1	HCS-51-SFL-24-090-B-W3
					1.57	2.03	2.37	4.23	7.19	3.82	350.82	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **Mobile Interlocking Protection** Page 88

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 **ECOVOS VA Version** Page 123

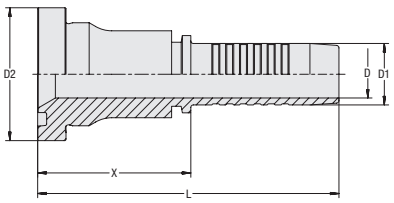
 **MULTIVOS Version** Page 155

Straight Insert with SAE Flange Adaptor Type SFS (6000 PSI Series)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection
(nominal sizes DN 16 to DN 31)





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	per 100	
12	1/2"	-08	1/2"	-08	9,5	13,0	31,8	45,5	81,0	11,3	HCS-12-SFS-08-M-W3
					.37	.51	1.25	1.79	3.19	24.92	
12	1/2"	-08	3/4"	-12	9,5	13,0	41,3	49,0	84,5	18,9	HCS-12-SFS-12-M-W3
					.37	.51	1.63	1.93	3.33	41.67	
16	5/8"	-10	1/2"	-08	12,6	16,0	31,8	51,5	90,0	13,4	HCS-16-SFS-08-M-W3
					.50	.63	1.25	2.03	3.54	29.55	
16	5/8"	-10	3/4"	-12	12,6	16,0	41,3	45,5	84,0	20,9	HCS-16-SFS-12-M-W3
					.50	.63	1.63	1.79	3.31	46.08	
16	5/8"	-10	1"	-16	12,6	16,0	47,6	46,5	85,0	25,9	HCS-16-SFS-16-M-W3
					.50	.63	1.87	1.83	3.35	57.11	
19	3/4"	-12	3/4"	-12	14,8	19,1	41,3	47,5	93,5	23,7	HCS-19-SFS-12-M-W3
					.58	.75	1.63	1.87	3.68	52.26	
19	3/4"	-12	1/2"	-08	14,8	19,1	31,8	55,0	101,0	18,4	HCS-19-SFS-08-B-W3
					.58	.75	1.25	2.17	3.98	40.57	
19	3/4"	-12	1"	-16	14,8	19,1	47,6	50,0	96,0	32,8	HCS-19-SFS-16-M-W3
					.58	.75	1.87	1.97	3.78	72.32	
19	3/4"	-12	1 1/4"	-20	14,8	19,1	54,0	65,0	111,0	43,2	HCS-19-SFS-20-B-W3
					.58	.75	2.13	2.56	4.37	95.26	
25	1"	-16	1"	-16	20,0	25,9	47,6	47,8	103,0	35,1	HCS-25-SFS-16-M-W3
					.79	1.02	1.87	1.88	4.06	77.40	
25	1"	-16	3/4"	-12	20,0	25,9	41,3	60,0	115,0	35,0	HCS-25-SFS-12-B-W3
					.79	1.02	1.63	2.36	4.53	77.18	
25	1"	-16	1 1/4"	-20	20,0	25,9	54,0	60,5	116,0	49,6	HCS-25-SFS-20-M-W3
					.79	1.02	2.13	2.38	4.57	109.37	
25	1"	-16	1 1/2"	-24	20,0	25,9	63,5	73,0	128,0	73,6	HCS-25-SFS-24-B-W3
					.79	1.02	2.50	2.87	5.04	162.29	
31	1 1/4"	-20	1 1/4"	-20	26,0	32,5	54,0	72,5	132,5	54,9	HCS-31-SFS-20-M-W3
					1.02	1.28	2.13	2.85	5.22	121.05	
31	1 1/4"	-20	1"	-16	26,0	32,5	47,6	64,5	124,5	54,4	HCS-31-SFS-16-B-W3
					1.02	1.28	1.87	2.54	4.90	119.95	
31	1 1/4"	-20	1 1/2"	-24	26,0	32,5	63,5	78,5	138,5	81,0	HCS-31-SFS-24-B-W3
					1.02	1.28	2.50	3.09	5.45	178.61	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,9	63,5	72,5	140,0	83,8	HCS-38-SFS-24-M-W3
					1.22	1.53	2.50	2.85	5.51	184.78	
38	1 1/2"	-24	1 1/4"	-20	31,0	38,9	54,0	73,5	141,0	74,4	HCS-38-SFS-20-B-W3
					1.22	1.53	2.13	2.89	5.55	164.05	
38	1 1/2"	-24	2"	-32	31,0	38,9	79,4	71,5	139,0	138,8	HCS-38-SFS-32-B-W3
					1.22	1.53	3.13	2.81	5.47	306.05	
51	2"	-32	2"	-32	40,0	51,6	79,4	75,0	150,0	159,7	HCS-51-SFS-32-M-W3
					1.57	2.03	3.13	2.95	5.91	352.14	

Related Products and Accessories


Swage Ferrules Pages 14-21


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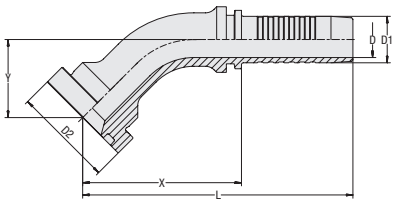

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A

45° Elbow Insert with SAE Flange Adaptor
Type SFS 45° (6000 PSI Series)





Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection
(nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
12	1/2"	-08	1/2"	-08	9,5	13,0	31,8	45,5	81,0	23,0	11,5	HCS-12-SFS-08-045-M-W3
					.37	.51	1.25	1.79	3.19	.91	25.36	
12	1/2"	-08	3/4"	-12	9,5	13,0	41,3	55,0	90,5	27,0	18,0	HCS-12-SFS-12-045-M-W3
					.37	.51	1.63	2.17	3.56	1.06	39.69	
16	5/8"	-10	1/2"	-08	12,6	16,0	31,8	60,5	99,0	26,0	14,4	HCS-16-SFS-08-045-M-W3
					.50	.63	1.25	2.38	3.90	1.02	31.75	
16	5/8"	-10	3/4"	-12	12,6	16,0	41,3	60,5	99,0	28,0	20,3	HCS-16-SFS-12-045-M-W3
					.50	.63	1.63	2.38	3.90	1.10	44.76	
16	5/8"	-10	1"	-16	12,6	16,0	47,6	67,5	106,0	29,0	31,9	HCS-16-SFS-16-045-B-W3
					.50	.63	1.87	2.66	4.17	1.14	70.34	
19	3/4"	-12	1/2"	-08	14,8	19,1	31,8	63,5	109,5	24,5	20,3	HCS-19-SFS-08-045-B-W3
					.58	.75	1.25	2.50	4.31	.96	44.76	
19	3/4"	-12	3/4"	-12	14,8	19,1	41,3	65,0	111,0	32,0	25,8	HCS-19-SFS-12-045-M-W3
					.58	.75	1.63	2.56	4.37	1.26	56.89	
19	3/4"	-12	1"	-16	14,8	19,1	47,6	64,2	114,0	30,5	32,3	HCS-19-SFS-16-045-M-W3
					.58	.75	1.87	2.53	4.49	1.20	71.22	
19	3/4"	-12	1 1/4"	-20	14,8	19,1	54,0	76,5	122,5	33,5	47,1	HCS-19-SFS-20-045-B-W3
					.58	.75	2.13	3.01	4.82	1.32	103.86	
25	1"	-16	3/4"	-12	20,0	25,9	41,3	73,0	128,5	29,5	38,8	HCS-25-SFS-12-045-B-W3
					.79	1.02	1.63	2.87	5.06	1.16	85.55	
25	1"	-16	1"	-16	20,0	25,9	47,6	83,5	138,5	36,0	43,7	HCS-25-SFS-16-045-M-W3
					.79	1.02	1.87	3.29	5.45	1.42	96.36	
25	1"	-16	1 1/4"	-20	20,0	25,9	54,0	97,0	152,0	41,0	58,2	HCS-25-SFS-20-045-M-W3
					.79	1.02	2.13	3.82	5.98	1.61	128.33	
25	1"	-16	1 1/2"	-24	20,0	25,9	63,5	90,5	145,5	42,0	81,5	HCS-25-SFS-24-045-B-W3
					.79	1.02	2.50	3.56	5.73	1.65	179.71	
31	1 1/4"	-20	1"	-16	26,0	32,5	47,6	85,5	145,5	34,5	62,3	HCS-31-SFS-16-045-B-W3
					1.02	1.28	1.87	3.37	5.73	1.36	137.37	
31	1 1/4"	-20	1 1/4"	-20	26,0	32,5	54,0	101,5	161,0	40,0	67,8	HCS-31-SFS-20-045-M-W3
					1.02	1.28	2.13	4.00	6.34	1.57	149.50	
31	1 1/4"	-20	1 1/2"	-24	26,0	32,5	63,5	111,5	171,5	49,0	96,7	HCS-31-SFS-24-045-B-W3
					1.02	1.28	2.50	4.39	6.75	1.93	213.22	
38	1 1/2"	-24	1 1/4"	-20	31,0	38,9	54,0	108,0	175,5	45,5	90,0	HCS-38-SFS-20-045-B-W3
					1.22	1.53	2.13	4.25	6.91	1.79	198.45	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,9	63,5	119,5	187,0	53,5	113,9	HCS-38-SFS-24-045-M-W3
					1.22	1.53	2.50	4.70	7.36	2.11	251.15	
38	1 1/2"	-24	2"	-32	31,0	38,9	79,4	127,0	195,0	59,0	166,4	HCS-38-SFS-32-045-B-W3
					1.22	1.53	3.13	5.00	7.68	2.32	366.91	
51	2"	-32	2"	-32	40,0	51,6	79,4	150,0	223,5	65,5	207,7	HCS-51-SFS-32-045-M-W3
					1.57	2.03	3.13	5.91	8.80	2.58	457.98	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


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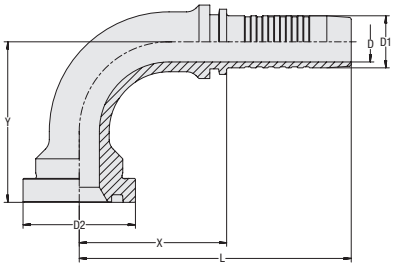

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90° Elbow Insert with SAE Flange Adaptor Type SFS 90° (6000 PSI Series)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
12	1/2"	-08	1/2"	-08	9,5	13,0	31,8	39,0	74,5	46,5	13,0	HCS-12-SFS-08-090-M-W3
					.37	.51	1.25	1.54	2.93	1.83	28.67	
12	1/2"	-08	3/4"	-12	9,5	13,0	41,3	43,2	78,5	50,0	20,8	HCS-12-SFS-12-090-M-W3
					.37	.51	1.63	1.70	3.09	1.97	45.86	
16	5/8"	-10	1/2"	-08	12,6	16,0	31,8	52,0	90,5	52,5	16,7	HCS-16-SFS-08-090-M-W3
					.50	.63	1.25	2.05	3.56	2.07	36.82	
16	5/8"	-10	3/4"	-12	12,6	16,0	41,3	47,5	86,0	57,0	23,2	HCS-16-SFS-12-090-M-W3
					.50	.63	1.63	1.87	3.39	2.24	51.16	
16	5/8"	-10	1"	-16	12,6	16,0	47,6	54,5	93,0	56,0	34,3	HCS-16-SFS-16-090-B-W3
					.50	.63	1.87	2.15	3.66	2.20	75.63	
19	3/4"	-12	1/2"	-08	14,8	19,1	31,8	55,0	101,0	50,0	22,6	HCS-19-SFS-08-090-B-W3
					.58	.75	1.25	2.17	3.98	1.97	49.83	
19	3/4"	-12	3/4"	-12	14,8	19,1	41,3	54,0	100,0	59,0	29,3	HCS-19-SFS-12-090-M-W3
					.58	.75	1.63	2.13	3.94	2.32	64.61	
19	3/4"	-12	1"	-16	14,8	19,1	47,6	61,5	107,5	68,0	38,2	HCS-19-SFS-16-090-M-W3
					.58	.75	1.87	2.42	4.23	2.68	84.23	
19	3/4"	-12	1 1/4"	-20	14,8	19,1	54,0	62,0	108,0	67,0	51,2	HCS-19-SFS-20-090-B-W3
					.58	.75	2.13	2.44	4.25	2.64	112.90	
25	1"	-16	3/4"	-12	20,0	25,9	41,3	63,0	118,0	61,0	43,0	HCS-25-SFS-12-090-B-W3
					.79	1.02	1.63	2.48	4.65	2.40	94.82	
25	1"	-16	1"	-16	20,0	25,9	47,6	70,5	125,5	73,0	47,4	HCS-25-SFS-16-090-M-W3
					.79	1.02	1.87	2.78	4.94	2.87	104.52	
25	1"	-16	1 1/4"	-20	20,0	25,9	54,0	81,0	136,0	80,5	65,6	HCS-25-SFS-20-090-M-W3
					.79	1.02	2.13	3.19	5.35	3.17	144.65	
25	1"	-16	1 1/2"	-24	20,0	25,9	63,5	73,0	128,0	84,0	89,3	HCS-25-SFS-24-090-B-W3
					.79	1.02	2.50	2.87	5.04	3.31	196.91	
31	1 1/4"	-20	1"	-16	26,0	32,5	47,6	75,5	135,5	73,0	70,0	HCS-31-SFS-16-090-B-W3
					1.02	1.28	1.87	2.97	5.33	2.87	154.35	
31	1 1/4"	-20	1 1/4"	-20	26,0	32,5	54,0	88,5	148,5	84,0	79,5	HCS-31-SFS-20-090-M-W3
					1.02	1.28	2.13	3.48	5.85	3.31	175.30	
31	1 1/4"	-20	1 1/2"	-24	26,0	32,5	63,5	93,5	153,5	100,0	109,2	HCS-31-SFS-24-090-B-W3
					1.02	1.28	2.50	3.68	6.04	3.94	240.79	
38	1 1/2"	-24	1 1/4"	-20	31,0	39,9	54,0	93,5	161,0	95,0	102,6	HCS-38-SFS-20-090-B-W3
					1.22	1.57	2.13	3.68	6.34	3.74	226.23	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,9	63,5	100,5	168,0	109,5	135,6	HCS-38-SFS-24-090-M-W3
					1.22	1.53	2.50	3.96	6.61	4.31	299.00	
38	1 1/2"	-24	2"	-32	31,0	38,9	79,4	103,5	171,0	118,0	183,0	HCS-38-SFS-32-090-B-W3
					1.22	1.53	3.13	4.07	6.73	4.65	403.52	
51	2"	-32	2"	-32	40,0	51,6	79,4	126,0	201,0	137,5	240,4	HCS-51-SFS-32-090-M-W3
					1.57	2.03	3.13	4.96	7.91	5.41	530.08	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


Swage Ferrules Pages 14-21


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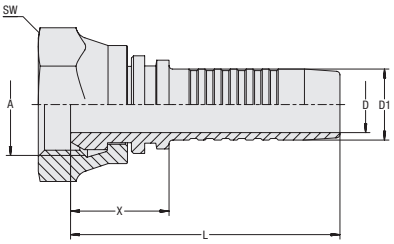

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A

Straight Insert with Female BSPP Thread and 60° Taper
Type DKR





Connection Type Female BSPP Nut Thread
Sealing Type 60° Taper
Standard ISO 8434-6, BS 5200

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
05	1/8"	-03	G 1/4"	-04	2,9	5,1	24,0	49,0	19	3,6	HCS-05-DKR-04-S-M-W3
					.11	.20	.94	1.93	.75	7.94	
06	1/4"	-04	G 1/4"	-04	3,9	6,7	22,5	52,5	19	4,0	HCS-06-DKR-04-S-M-W3
					.15	.26	.89	2.07	.75	8.82	
06	1/4"	-04	G 1/8"	-03	3,9	6,7	15,5	46,0	17	2,6	HCS-06-DKR-03-C-M-W3
					.15	.26	.61	1.81	.67	5.73	
06	1/4"	-04	G 3/8"	-06	3,9	6,7	25,5	56,0	22	5,4	HCS-06-DKR-06-S-M-W3
					.15	.26	1.00	2.20	.87	11.91	
08	5/16"	-05	G 1/4"	-04	5,4	8,2	18,0	48,0	19	3,5	HCS-08-DKR-04-C-M-W3
					.21	.32	.71	1.89	.75	7.72	
08	5/16"	-05	G 3/8"	-06	5,4	8,2	26,5	57,0	22	5,7	HCS-08-DKR-06-S-M-W3
					.21	.32	1.04	2.24	.87	12.57	
10	3/8"	-06	G 3/8"	-06	6,5	9,9	23,5	57,0	22	6,2	HCS-10-DKR-06-S-M-W3
					.26	.39	.93	2.24	.87	13.56	
10	3/8"	-06	G 1/4"	-04	6,5	9,9	20,0	53,5	19	4,3	HCS-10-DKR-04-C-M-W3
					.26	.39	.79	2.11	.75	9.37	
10	3/8"	-06	G 1/2"	-08	6,5	9,9	22,0	55,5	27	8,2	HCS-10-DKR-08-C-M-W3
					.26	.39	.87	2.19	1.06	18.08	
12	1/2"	-08	G 1/2"	-08	9,5	13,0	27,0	62,5	27	10,2	HCS-12-DKR-08-S-M-W3
					.37	.51	1.06	2.46	1.06	22.38	
12	1/2"	-08	G 3/8"	-06	9,5	13,0	21,0	56,5	22	6,4	HCS-12-DKR-06-C-M-W3
					.37	.51	.83	2.22	.87	14.00	
12	1/2"	-08	G 5/8"	-10	9,5	13,0	26,0	61,5	30	12,4	HCS-12-DKR-10-C-M-W3
					.37	.51	1.02	2.42	1.18	27.23	
12	1/2"	-08	G 3/4"	-12	9,5	13,0	30,0	65,5	32	14,2	HCS-12-DKR-12-C-M-W3
					.37	.51	1.18	2.58	1.26	31.20	
16	5/8"	-10	G 5/8"	-10	12,6	16,0	22,0	60,5	30	10,5	HCS-16-DKR-10-C-M-W3
					.50	.63	.87	2.38	1.18	23.15	
16	5/8"	-10	G 1/2"	-08	12,6	16,0	23,0	61,5	27	10,2	HCS-16-DKR-08-C-M-W3
					.50	.63	.91	2.42	1.06	22.38	
16	5/8"	-10	G 3/4"	-12	12,6	16,0	24,0	62,5	32	13,1	HCS-16-DKR-12-C-M-W3
					.50	.63	.94	2.46	1.26	28.89	
19	3/4"	-12	G 3/4"	-12	14,8	19,1	24,5	70,5	32	14,5	HCS-19-DKR-12-C-M-W3
					.58	.75	.96	2.78	1.26	31.86	
19	3/4"	-12	G 1"	-16	14,8	19,1	29,0	75,0	41	27,6	HCS-19-DKR-16-C-M-W3
					.58	.75	1.14	2.95	1.61	60.86	
25	1"	-16	G 1"	-16	20,0	25,9	25,0	80,5	41	22,5	HCS-25-DKR-16-C-M-W3
					.79	1.02	.98	3.17	1.61	49.61	
25	1"	-16	G 1 1/4"	-20	20,0	25,9	31,5	87,0	50	42,2	HCS-25-DKR-20-W-M-W3
					.79	1.02	1.24	3.43	1.97	92.94	
31	1 1/4"	-20	G 1 1/4"	-20	26,0	32,5	32,0	92,0	50	48,7	HCS-31-DKR-20-W-M-W3
					1.02	1.28	1.26	3.62	1.97	107.38	
38	1 1/2"	-24	G 1 1/2"	-24	31,0	38,9	33,5	101,0	55	65,0	HCS-38-DKR-24-W-M-W3
					1.22	1.53	1.32	3.98	2.17	143.21	
51	2"	-32	G 2"	-32	40,0	51,6	31,0	106,0	70	118,7	HCS-51-DKR-32-W-M-W3
					1.57	2.03	1.22	4.17	2.76	261.62	

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **Mobile Interlocking Protection** Page 88

 **45° Version** Page 65

 **90° Version** Page 66

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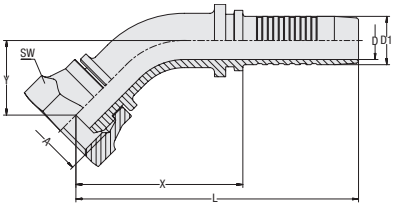
 **MULTIVOS Version** Page 162

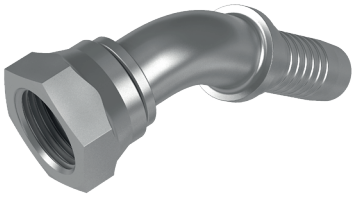
45° Elbow Insert with Female BSPP Thread and 60° Taper Type DKR 45°

Connection Type Female BSPP Nut Thread
Sealing Type 60° Taper
Standard ISO 8434-6, BS 5200

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
05	1/8"	-03	G 1/4"	-04	2,9	5,1	33,0	57,5	13,5	19	3,9	HCS-05-DKR-04-045-C-M-W3
					.11	.20	1.30	2.26	.53	.75	8.60	
06	1/4"	-04	G 1/4"	-04	3,9	6,7	36,0	66,0	15,5	19	4,3	HCS-06-DKR-04-045-C-M-W3
					.15	.26	1.42	2.60	.61	.75	9.48	
06	1/4"	-04	G 3/8"	-06	3,9	6,7	37,5	67,5	16,0	22	6,4	HCS-06-DKR-06-045-C-M-W3
					.15	.26	1.48	2.66	.63	.87	14.11	
08	5/16"	-05	G 3/8"	-06	5,4	8,2	38,0	68,0	16,0	22	6,4	HCS-08-DKR-06-045-C-M-W3
					.21	.32	1.50	2.68	.63	.87	14.00	
10	3/8"	-06	G 3/8"	-06	6,5	9,9	41,0	74,5	18,0	22	7,2	HCS-10-DKR-06-045-C-M-W3
					.26	.39	1.61	2.93	.71	.87	15.88	
10	3/8"	-06	G 1/2"	-08	6,5	9,9	40,5	74,0	19,5	27	10,5	HCS-10-DKR-08-045-C-M-W3
					.26	.39	1.59	2.91	.77	1.06	23.15	
12	1/2"	-08	G 3/8"	-06	9,5	13,0	53,5	89,0	23,5	22	10,1	HCS-12-DKR-06-045-C-M-W3
					.37	.51	2.11	3.50	.93	.87	22.27	
12	1/2"	-08	G 1/2"	-08	9,5	13,0	50,5	85,5	20,0	27	12,2	HCS-12-DKR-08-045-C-M-W3
					.37	.51	1.99	3.37	.79	1.06	26.79	
12	1/2"	-08	G 5/8"	-10	9,5	13,0	45,5	81,0	19,5	30	14,4	HCS-12-DKR-10-045-C-M-W3
					.37	.51	1.79	3.19	.77	1.18	31.64	
12	1/2"	-08	G 3/4"	-12	9,5	13,0	46,0	81,5	23,5	32	16,3	HCS-12-DKR-12-045-C-M-W3
					.37	.51	1.81	3.21	.93	1.26	35.83	
16	5/8"	-10	G 5/8"	-10	12,6	16,0	55,5	93,5	24,5	30	15,6	HCS-16-DKR-10-045-C-M-W3
					.50	.63	2.19	3.68	.96	1.18	34.40	
16	5/8"	-10	G 3/4"	-12	12,6	16,0	55,5	94,0	25,0	32	18,7	HCS-16-DKR-12-045-C-M-W3
					.50	.63	2.19	3.70	.98	1.26	41.12	
19	3/4"	-12	G 3/4"	-12	14,8	19,1	63,5	109,5	31,0	32	24,8	HCS-19-DKR-12-045-C-M-W3
					.58	.75	2.50	4.31	1.22	1.26	54.57	
19	3/4"	-12	G 1"	-16	14,8	19,1	63,0	109,0	30,0	41	35,4	HCS-19-DKR-16-045-C-M-W3
					.58	.75	2.48	4.29	1.18	1.61	78.06	
25	1"	-16	G 1"	-16	20,0	25,9	89,0	144,0	38,0	38	48,0	HCS-25-DKR-16-045-C-M-W3
					.79	1.02	3.50	5.67	1.50	1.50	105.73	
25	1"	-16	G 1 1/4"	-20	20,0	25,9	89,5	144,5	40,0	50	59,1	HCS-25-DKR-20-045-W-M-W3
					.79	1.02	3.52	5.69	1.57	1.97	130.32	
31	1 1/4"	-20	G 1 1/4"	-20	26,0	32,5	102,0	161,5	39,5	50	82,9	HCS-31-DKR-20-045-W-M-W3
					1.02	1.28	4.02	6.36	1.56	1.97	182.79	
38	1 1/2"	-24	G 1 1/2"	-24	31,0	38,9	129,5	197,0	50,0	55	122,4	HCS-38-DKR-24-045-W-M-W3
					1.22	1.53	5.10	7.76	1.97	2.17	269.89	
51	2"	-32	G 2"	-32	40,0	51,6	135,0	210,0	60,5	70	195,1	HCS-51-DKR-32-045-W-M-W3
					1.57	2.03	5.31	8.27	2.38	2.76	430.20	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


Swage Ferrules Pages 14-21


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90° Version Page 66

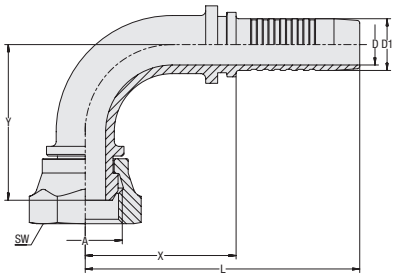

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MULTIVOS Version Page 163

A

90° Elbow Insert with Female BSPP Thread and 60° Taper
Type DKR 90°





Connection Type Female BSPP Nut Thread
Sealing Type 60° Taper
Standard ISO 8434-6, BS 5200

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
05	1/8"	-03	G 1/4"	-04	2,9	5,1	26,5	51,0	26,0	19	4,1	HCS-03-DKR-04-090-C-M-W3
					.11	.20	1.04	2.01	1.02	.75	9.04	
06	1/4"	-04	G 1/8"	-03	3,9	6,7	28,0	58,0	30,5	17	4,1	HCS-06-DKR-03-090-C-M-W3
					.15	.26	1.10	2.28	1.20	.67	9.04	
06	1/4"	-04	G 1/4"	-04	3,9	6,7	27,0	57,0	28,5	19	4,6	HCS-06-DKR-04-090-C-M-W3
					.15	.26	1.06	2.24	1.12	.75	10.14	
06	1/4"	-04	G 3/8"	-06	3,9	6,7	29,0	59,0	31,0	22	6,9	HCS-06-DKR-06-090-C-M-W3
					.15	.26	1.14	2.32	1.22	.87	15.10	
08	5/16"	-05	G 3/8"	-06	5,4	8,2	29,5	59,5	31,5	22	6,8	HCS-08-DKR-06-090-C-M-W3
					.21	.32	1.16	2.34	1.24	.87	14.99	
10	3/8"	-06	G 3/8"	-06	6,5	9,9	33,0	66,5	40,5	22	8,3	HCS-10-DKR-06-090-C-M-W3
					.26	.39	1.30	2.62	1.59	.87	18.30	
10	3/8"	-06	G 1/2"	-08	6,5	9,9	35,5	69,0	38,0	27	11,6	HCS-10-DKR-08-090-C-M-W3
					.26	.39	1.40	2.72	1.50	1.06	25.47	
12	1/2"	-08	G 3/8"	-06	9,5	13,0	42,0	77,5	42,5	22	14,5	HCS-12-DKR-06-090-C-M-W3
					.37	.51	1.65	3.05	1.67	.87	31.97	
12	1/2"	-08	G 1/2"	-08	9,5	13,0	41,0	76,5	42,0	27	13,7	HCS-12-DKR-08-090-C-M-W3
					.37	.51	1.61	3.01	1.65	1.06	30.21	
12	1/2"	-08	G 5/8"	-10	9,5	13,0	41,0	76,5	40,5	30	16,0	HCS-12-DKR-10-090-C-M-W3
					.37	.51	1.61	3.01	1.59	1.18	35.17	
12	1/2"	-08	G 3/4"	-12	9,5	13,0	38,0	73,5	45,5	32	17,9	HCS-12-DKR-12-090-C-M-W3
					.37	.51	1.50	2.89	1.79	1.26	39.36	
16	5/8"	-10	G 5/8"	-10	12,6	16,0	46,5	85,0	48,0	30	17,5	HCS-16-DKR-10-090-C-M-W3
					.50	.63	1.83	3.35	1.89	1.18	38.59	
16	5/8"	-10	G 3/4"	-12	12,6	16,0	45,0	84,0	54,0	32	20,2	HCS-16-DKR-12-090-C-M-W3
					.50	.63	1.77	3.31	2.13	1.26	44.54	
19	3/4"	-12	G 3/4"	-12	14,8	19,1	50,0	94,3	52,0	32	22,2	HCS-19-DKR-12-090-C-M-W3
					.58	.75	1.97	3.71	2.05	1.26	48.95	
19	3/4"	-12	G 1"	-16	14,8	19,1	54,0	100,0	56,0	41	39,1	HCS-19-DKR-16-090-C-M-W3
					.58	.75	2.13	3.94	2.20	1.61	86.22	
25	1"	-16	G 1"	-16	20,0	25,9	75,5	130,5	73,5	41	58,1	HCS-25-DKR-16-090-C-M-W3
					.79	1.02	2.97	5.14	2.89	1.61	128.11	
25	1"	-16	G 1 1/4"	-20	20,0	25,9	76,0	131,0	79,5	50	67,2	HCS-25-DKR-20-090-W-M-W3
					.79	1.02	2.99	5.16	3.13	1.97	148.18	
31	1 1/4"	-20	G 1 1/4"	-20	26,0	32,5	92,2	152,0	88,5	50	96,5	HCS-31-DKR-20-090-W-M-W3
					1.02	1.28	3.63	5.98	3.48	1.97	212.78	
38	1 1/2"	-24	G 1 1/2"	-24	31,0	38,9	117,0	184,5	105,5	55	146,3	HCS-38-DKR-24-090-W-M-W3
					1.22	1.53	4.61	7.26	4.15	2.17	322.48	
51	2"	-32	G 2"	-32	40,0	51,6	121,5	196,5	125,0	70	227,1	HCS-51-DKR-32-090-W-M-W3
					1.57	2.03	4.78	7.74	4.92	2.76	500.65	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


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Straight Version Page 64


45° Version Page 65


ECOVOS VA Version Page 129

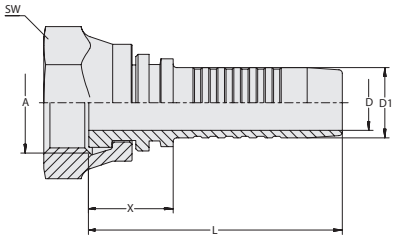

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Straight Insert with Female BSPP Thread
Type DKRF

Connection Type Female BSPP Nut Thread
Sealing Type Flat-Sealing

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	G 1/4"	-04	3,9	6,7	14,0	44,2	19	2,9	HCS-06-DKRF-04-C-M-W3
					.15	.26	.55	1.74	.75	6.39	
08	5/16"	-05	G 3/8"	-06	5,4	8,2	19,3	49,5	22	4,8	HCS-08-DKRF-06-C-M-W3
					.21	.32	.76	1.95	.87	10.58	
08	5/16"	-05	G 1/2"	-08	5,4	8,2	20,9	51,1	27	7,5	HCS-08-DKRF-08-C-M-W3
					.21	.32	.82	2.01	1.06	16.54	
10	3/8"	-06	G 1/4"	-04	6,5	9,9	16,4	49,9	19	3,8	HCS-10-DKRF-04-C-M-W3
					.26	.39	.65	1.96	.75	8.38	
10	3/8"	-06	G 3/8"	-06	6,5	9,9	16,3	49,8	22	4,9	HCS-10-DKRF-06-C-M-W3
					.26	.39	.64	1.96	.87	10.80	
10	3/8"	-06	G 1/2"	-08	6,5	9,9	21,8	55,3	27	8,1	HCS-10-DKRF-08-S-M-W3
					.26	.39	.86	2.18	1.06	17.86	
12	1/2"	-08	G 3/8"	-06	9,5	13,0	19,4	54,9	22	5,8	HCS-12-DKRF-06-C-M-W3
					.37	.51	.76	2.16	.87	12.79	
12	1/2"	-08	G 1/2"	-08	9,5	13,0	18,6	54,1	27	8,2	HCS-12-DKRF-08-C-M-W3
					.37	.51	.73	2.13	1.06	18.08	
12	1/2"	-08	G 3/4"	-12	9,5	13,0	20,1	55,6	32	11,6	HCS-12-DKRF-12-C-M-W3
					.37	.51	.79	2.19	1.26	25.58	
16	5/8"	-10	G 3/4"	-12	12,6	16,0	20,2	58,7	32	11	HCS-16-DKRF-12-C-M-W3
					.50	.63	.80	2.31	1.26	24.26	
19	3/4"	-12	G 3/4"	-12	14,8	19,1	18,2	64,2	32	12,4	HCS-19-DKRF-12-C-M-W3
					.58	.75	.72	2.53	1.26	27.34	
19	3/4"	-12	G 1"	-16	14,8	19,1	25,3	71,3	41	22,5	HCS-19-DKRF-16-C-M-W3
					.58	.75	1.00	2.81	1.61	49.61	
25	1"	-16	G 1"	-16	20,0	25,9	23,6	78,8	41	30,2	HCS-25-DKRF-16-C-M-W3
					.79	1.02	.93	3.10	1.61	66.59	
31	1 1/4"	-20	G 1 1/4"	-20	26,0	32,5	23,4	83,4	50	39	HCS-31-DKRF-20-W-M-W3
					1.02	1.28	.92	3.28	1.97	86.00	

Related Products and Accessories


Swage Ferrules Pages 14-21


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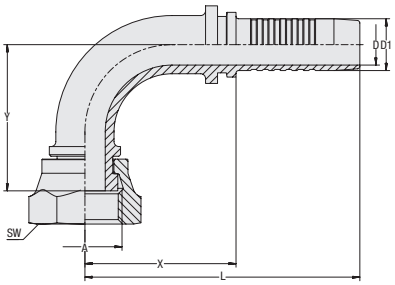

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Mobile Interlocking Protection Page 88

A

90° Elbow Insert with Female BSPP Thread
Type DKRF 90°





Connection Type Female BSPP Nut Thread
Sealing Type Flat-Sealing

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	G 1/4"	-04	3,9	6,7	32,8	63,0	35,2	19	4,5	HCS-06-DKRF-04-090-C-M-W3
					.15	.26	1.29	2.48	1.39	.75	9.92	
10	3/8"	-06	G 3/8"	-06	6,5	9,9	42,5	74,0	36,5	22	8,3	HCS-10-DKRF-06-090-C-M-W3
					.26	.39	1.67	2.91	1.44	.87	18.30	
12	1/2"	-08	G 1/2"	-08	9,5	13,0	48,0	83,5	41,0	27	13,3	HCS-12-DKRF-08-090-C-M-W3
					.37	.51	1.89	3.29	1.61	1.06	29.33	
12	1/2"	-08	G 3/4"	-12	9,5	13,0	48,0	83,5	41,0	32	17,9	HCS-12-DKRF-12-090-C-M-W3
					.37	.51	1.89	3.29	1.61	1.26	39.47	
16	5/8"	-10	G 3/4"	-12	12,6	16,0	45,0	83,5	51,1	32	20,2	HCS-16-DKRF-12-090-C-M-W3
					.50	.63	1.77	3.29	2.01	1.26	44.54	
19	3/4"	-12	G 3/4"	-12	14,8	19,1	60,6	106,6	54,0	32	24,0	HCS-19-DKRF-12-090-C-M-W3
					.58	.75	2.39	4.20	2.13	1.26	52.92	
25	1"	-16	G 1"	-16	20,0	25,9	61,4	116,6	70,3	41	45,5	HCS-25-DKRF-16-090-C-M-W3
					.79	1.02	2.42	4.59	2.77	1.61	100.33	
31	1 1/4"	-20	G 1 1/4"	-20	26,0	32,5	76,3	136,3	79,9	50	82,0	HCS-31-DKRF-20-090-W-M-W3
					1.02	1.28	3.00	5.37	3.15	1.97	180.81	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


Swage Ferrules Pages 14-21


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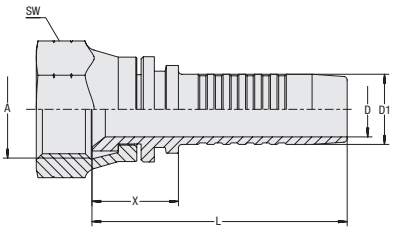

Mobile Interlocking Protection Page 88

Straight Insert with Female UN/UNF Thread and 74° Conical Bore
Type DKJ

Connection Type Female UN/UNF Nut Thread
Sealing Type 74° Conical Bore
Standard ISO 8434-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	7/16"-20 UNF	-04	3,9	6,7	15,5	45,5	14	2,1	HCS-06-DKJ-04-C-M-W3
					.15	.26	.61	1.79	.55	4.63	
06	1/4"	-04	1/2"-20 UNF	-05	3,9	6,7	14,5	41,0	17	2,4	HCS-06-DKJ-05-C-M-W3
					.15	.26	.57	1.61	.67	5.29	
06	1/4"	-04	9/16"-18 UNF	-06	3,9	6,7	17,0	47,0	19	3,5	HCS-06-DKJ-06-C-M-W3
					.15	.26	.67	1.85	.75	7.61	
06	1/4"	-04	3/4"-16 UNF	-08	3,9	6,7	22,0	52,0	24	5,8	HCS-06-DKJ-08-C-M-W3
					.15	.26	.87	2.05	.94	12.79	
08	5/16"	-05	1/2"-20 UNF	-05	5,4	8,2	15,0	45,0	17	2,9	HCS-08-DKJ-05-C-M-W3
					.21	.32	.59	1.77	.67	6.39	
08	5/16"	-05	9/16"-18 UNF	-06	5,4	8,2	19,0	49,0	19	4,0	HCS-08-DKJ-06-C-M-W3
					.21	.32	.75	1.93	.75	8.82	
08	5/16"	-05	3/4"-16UNF	-08	5,4	8,2	16,0	42,5	24	5,1	HCS-08-DKJ-08-C-M-W3
					.21	.32	.63	1.67	.94	11.25	
10	3/8"	-06	9/16"-18 UNF	-06	6,5	9,9	17,0	50,5	19	4,1	HCS-10-DKJ-06-C-M-W3
					.26	.39	.67	1.99	.75	9.04	
10	3/8"	-06	1/2"-20 UNF	-05	6,5	9,9	17,0	50,5	17	3,5	HCS-10-DKJ-05-C-M-W3
					.26	.39	.67	1.99	.67	7.72	
10	3/8"	-06	3/4"-16 UNF	-08	6,5	9,9	17,0	50,5	24	5,9	HCS-10-DKJ-08-C-M-W3
					.26	.39	.67	1.99	.94	12.90	
10	3/8"	-06	7/8"-14 UNF	-10	6,5	9,9	19,0	52,5	27	7,7	HCS-10-DKJ-10-C-M-W3
					.26	.39	.75	2.07	1.06	16.98	
12	1/2"	-08	3/4"-16 UNF	-08	9,5	13,0	19,5	55,0	22	6,0	HCS-12-DKJ-08-C-M-W3
					.37	.51	.77	2.17	.87	13.23	
12	1/2"	-08	7/8"-14 UNF	-10	9,5	13,0	20,0	55,5	27	7,4	HCS-12-DKJ-10-C-M-W3
					.37	.51	.79	2.19	1.06	16.32	
12	1/2"	-08	1 1/16"-12 UN	-12	9,5	13,0	24,5	60,0	32	12,7	HCS-12-DKJ-12-C-M-W3
					.37	.51	.96	2.36	1.26	28.00	
16	5/8"	-10	7/8"-14 UNF	-10	12,6	16,0	19,5	58,0	27	8,9	HCS-16-DKJ-10-C-M-W3
					.50	.63	.77	2.28	1.06	19.62	
16	5/8"	-10	1 1/16"-12 UN	-12	12,6	16,0	23,0	61,5	32	13,2	HCS-16-DKJ-12-C-M-W3
					.50	.63	.91	2.42	1.26	29.11	
19	3/4"	-12	1 1/16"-12 UN	-12	14,8	19,1	22,6	66,9	32	12,9	HCS-19-DKJ-12-C-M-W3
					.58	.75	.89	2.63	1.26	28.44	
19	3/4"	-12	7/8"-14 UNF	-10	14,8	19,1	22,3	66,6	27	13,5	HCS-19-DKJ-10-C-M-W3
					.58	.75	.88	2.62	1.06	29.77	
19	3/4"	-12	1 5/16"-12 UN	-16	14,8	19,1	24,3	68,6	41	20,0	HCS-19-DKJ-16-C-M-W3
					.58	.75	.96	2.70	1.61	44.10	
25	1"	-16	1 5/16"-12 UN	-16	20,0	25,9	24,8	79,1	41	24,0	HCS-25-DKJ-16-C-M-W3
					.79	1.02	.98	3.11	1.61	52.92	
25	1"	-16	1 1/16"-12UN	-12	20,0	25,9	25,5	80,5	32	21,3	HCS-25-DKJ-12-C-M-W3
					.79	1.02	1.00	3.17	1.26	46.97	
25	1"	-16	1 5/8"-12UN	-20	20,0	25,9	41,5	96,5	50	46,3	HCS-25-DKJ-20-W-M-W3
					.79	1.02	1.63	3.80	1.97	101.98	
31	1 1/4"	-20	1 5/8"-12UN	-20	26,0	32,5	28,1	86,0	50	43,2	HCS-31-DKJ-20-W-M-W3
					1.02	1.28	1.11	3.39	1.97	95.26	
31	1 1/4"	-20	1 7/8"-12 UN	-24	26,0	32,5	47,5	107,5	60	77,6	HCS-31-DKJ-24-W-M-W3
					1.02	1.28	1.87	4.23	2.36	171.11	
38	1 1/2"	-24	1 7/8"-12 UN	-24	31,0	38,9	36,0	103,5	60	81,4	HCS-38-DKJ-24-W-M-W3
					1.22	1.53	1.42	4.07	2.36	179.38	
51	2"	-32	2 1/2"-12 UN	-32	40,0	51,6	43,5	118,5	75	153,7	HCS-51-DKJ-32-W-M-W3
					1.57	2.03	1.71	4.67	2.95	338.80	

Related Products and Accessories


Swage Ferrules Pages 14-21


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45° Version Page 70


90° Version Page 71


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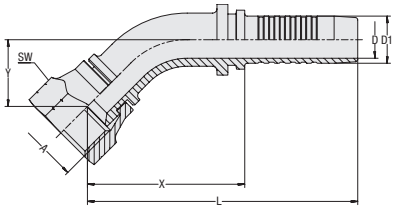

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A

45° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore
Type DKJ 45°





Connection Type	Female UN/UNF Nut Thread
Sealing Type	74° Conical Bore
Standard	ISO 8434-2
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	7/16"-20 UNF	-04	3,9	6,7	35,0	65,0	16,5	14	2,9	HCS-06-DKJ-04-045-C-M-W3
					.15	.26	1.38	2.56	.65	.55	6.28	
06	1/4"	-04	1/2"-20 UNF	-05	3,9	6,7	33,5	63,5	14,0	19	2,1	HCS-06-DKJ-05-045-C-M-W3
					.15	.26	1.32	2.50	.55	.75	4.63	
06	1/4"	-04	9/16"-18 UNF	-06	3,9	6,7	33,5	63,5	14,0	19	4,3	HCS-06-DKJ-06-045-C-M-W3
					.15	.26	1.32	2.50	.55	.75	9.48	
08	5/16"	-05	1/2"-20 UNF	-05	5,4	8,2	38,5	68,5	16,5	17	4,4	HCS-08-DKJ-05-045-C-M-W3
					.21	.32	1.52	2.70	.65	.67	9.59	
08	5/16"	-05	9/16"-18 UNF	-06	5,4	8,2	52,0	78,5	16,0	19	4,9	HCS-08-DKJ-06-045-C-M-W3
					.21	.32	2.05	3.09	.63	.75	10.80	
10	3/8"	-06	9/16"-18 UNF	-06	6,5	9,9	40,0	73,5	16,5	19	6,2	HCS-10-DKJ-06-045-C-M-W3
					.26	.39	1.57	2.89	.65	.75	13.56	
10	3/8"	-06	3/4"-16 UNF	-08	6,5	9,9	42,0	75,0	15,5	24	8,2	HCS-10-DKJ-08-045-C-M-W3
					.26	.39	1.65	2.95	.61	.94	17.97	
10	3/8"	-06	7/8"-14 UNF	-10	6,5	9,9	39,5	73,0	17,5	27	9,9	HCS-10-DKJ-10-045-C-M-W3
					.26	.39	1.56	2.87	.69	1.06	21.72	
12	1/2"	-08	3/4"-16 UNF	-08	9,5	13,0	45,0	80,5	21,5	22	9,2	HCS-12-DKJ-08-045-C-M-W3
					.37	.51	1.77	3.17	.85	.87	20.18	
12	1/2"	-08	7/8"-14 UNF	-10	9,5	13,0	64,0	96,5	21,0	27	11,8	HCS-12-DKJ-10-045-C-M-W3
					.37	.51	2.52	3.80	.83	1.06	26.02	
12	1/2"	-08	1 1/16"-12 UN	-12	9,5	13,0	47,0	82,5	21,5	32	15,3	HCS-12-DKJ-12-045-C-M-W3
					.37	.51	1.85	3.25	.85	1.26	33.63	
16	5/8"	-10	7/8"-14 UNF	-10	12,6	16,0	53,5	91,5	22,5	27	13,6	HCS-16-DKJ-10-045-C-M-W3
					.50	.63	2.11	3.60	.89	1.06	29.99	
16	5/8"	-10	1 1/16"-12 UN	-12	12,6	16,0	58,5	96,5	27,0	32	18,9	HCS-16-DKJ-12-045-C-M-W3
					.50	.63	2.30	3.80	1.06	1.26	41.56	
19	3/4"	-12	1 1/16"-12 UN	-12	14,8	19,1	60,2	106,0	27,5	32	23,8	HCS-19-DKJ-12-045-C-M-W3
					.58	.75	2.37	4.17	1.08	1.26	52.37	
19	3/4"	-12	1 5/16"-12 UN	-16	14,8	19,1	64,0	110,0	25,5	41	32,6	HCS-19-DKJ-16-045-C-M-W3
					.58	.75	2.52	4.33	1.00	1.66	71.88	
25	1"	-16	1 5/16"-12 UN	-16	20,0	25,9	83,5	138,5	32,5	41	46,5	HCS-25-DKJ-16-045-C-M-W3
					.79	1.02	3.29	5.45	1.28	1.61	102.53	
25	1"	-16	1 5/8"-12 UN	-20	20,0	25,9	90,0	144,5	35,0	50	60,5	HCS-25-DKJ-20-045-W-M-W3
					.79	1.02	3.54	5.69	1.38	1.97	133.40	
31	1 1/4"	-20	1 5/8"-12UN	-20	26,0	32,5	109,0	168,5	45,5	50	88,1	HCS-31-DKJ-20-045-W-M-W3
					1.02	1.28	4.29	6.63	1.79	1.97	194.15	
31	1 1/4"	-20	1 7/8"-12 UN	-24	26,0	32,5	110,0	170,0	46,5	60	104,0	HCS-31-DKJ-24-045-W-M-W3
					1.02	1.28	4.33	6.69	1.83	2.36	229.32	
38	1 1/2"	-24	1 7/8"-12 UN	-24	31,0	38,9	134,5	202,0	58,5	60	141,8	HCS-38-DKJ-24-045-W-M-W3
					1.22	1.53	5.30	7.95	2.30	2.36	312.67	
51	2"	-32	2 1/2"-12 UN	-32	40,0	51,6	151,0	226,0	67,0	75	235,0	HCS-51-DKJ-32-045-W-M-W3
					1.57	2.03	5.94	8.90	2.64	2.95	518.18	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


Swage Ferrules Pages 14-21


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Straight Version Page 69


90° Version Page 71


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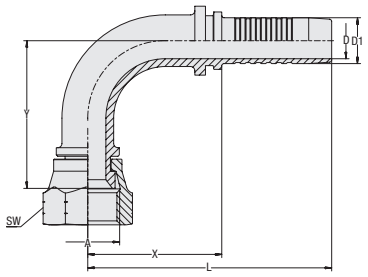

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90° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore
Type DKJ 90°

Connection Type Female UN/UNF Nut Thread
Sealing Type 74° Conical Bore
Standard ISO 8434-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	7/16"-20 UNF	-04	3,9	6,7	25,5	55,5	31,5	14	3,2	HCS-06-DKJ-04-090-C-M-W3
					.15	.26	1.00	2.19	1.24	.55	6.95	
06	1/4"	-04	1/2"-20 UNF	-05	3,9	6,7	27,0	57,0	27,5	17	4,0	HCS-06-DKJ-05-090-C-M-W3
					.15	.26	1.06	2.24	1.08	.67	8.71	
06	1/4"	-04	9/16"-18 UNF	-06	3,9	6,7	32,5	62,5	30,0	19	4,7	HCS-06-DKJ-06-090-C-M-W3
					.15	.26	1.28	2.46	1.18	.75	10.36	
08	5/16"	-05	1/2"-20 UNF	-05	5,4	8,2	28,5	58,5	30,0	17	4,7	HCS-08-DKJ-05-090-C-M-W3
					.21	.32	1.12	2.30	1.18	.67	10.25	
08	5/16"	-05	9/16"-18 UNF	-06	5,4	8,2	31,8	61,8	30,7	19	4,9	HCS-08-DKJ-06-090-C-M-W3
					.21	.32	1.25	2.43	1.21	.75	10.80	
08	5/16"	-05	3/4"-16 UNF	-08	5,4	8,2	33,0	59,5	33,0	24	0,0	HCS-08-DKJ-08-090-C-M-W3
					.21	.32	1.30	2.34	1.30	.94	.00	
10	3/8"	-06	9/16"-18 UNF	-06	6,5	9,9	35,0	69,0	36,5	19	7,3	HCS-10-DKJ-06-090-C-M-W3
					.26	.39	1.38	2.72	1.44	.75	16.10	
10	3/8"	-06	3/4"-16 UNF	-08	6,5	9,9	37,0	70,0	33,0	24	9,2	HCS-10-DKJ-08-090-C-M-W3
					.26	.39	1.46	2.76	1.30	.94	20.18	
10	3/8"	-06	7/8"-14 UNF	-10	6,5	9,9	38,5	72,0	38,5	27	11,2	HCS-10-DKJ-10-090-C-M-W3
					.26	.39	1.52	2.83	1.52	1.06	24.70	
12	1/2"	-08	3/4"-16 UNF	-08	9,5	13,0	39,5	75,0	42,0	22	10,7	HCS-12-DKJ-08-090-C-M-W3
					.37	.51	1.56	2.95	1.65	.87	23.59	
12	1/2"	-08	7/8"-14 UNF	-10	9,5	13,0	39,0	77,0	43,5	27	13,6	HCS-12-DKJ-10-090-C-M-W3
					.37	.51	1.54	3.03	1.71	1.06	29.99	
12	1/2"	-08	1 1/16"-12 UN	-12	9,5	13,0	40,0	75,5	43,0	32	16,8	HCS-12-DKJ-12-090-C-M-W3
					.37	.51	1.57	2.97	1.69	1.26	37.04	
16	5/8"	-10	7/8"-14 UNF	-10	12,6	16,0	46,5	85,0	51,5	27	16,2	HCS-16-DKJ-10-090-C-M-W3
					.50	.63	1.83	3.35	2.03	1.06	35.61	
16	5/8"	-10	1 1/16"-12 UN	-12	12,6	16,0	45,0	83,5	48,5	32	20,3	HCS-16-DKJ-12-090-C-M-W3
					.50	.63	1.77	3.29	1.91	1.26	44.76	
19	3/4"	-12	1 1/16"-12 UN	-12	14,8	19,1	54,0	100,0	54,5	32	28,1	HCS-19-DKJ-12-090-C-M-W3
					.58	.75	2.13	3.94	2.15	1.26	61.85	
19	3/4"	-12	1 5/16"-12 UN	-16	14,8	19,1	54,0	100,0	55,0	41	36,3	HCS-19-DKJ-16-090-C-M-W3
					.58	.75	2.13	3.94	2.17	1.61	79.93	
25	1"	-16	1 5/16"-12 UN	-16	20,0	25,9	72,0	126,3	67,0	41	43,0	HCS-25-DKJ-16-090-C-M-W3
					.79	1.02	2.83	4.97	2.64	1.61	94.82	
25	1"	-16	1 5/8"-12 UN	-20	20,0	25,9	82,0	137,0	74,0	50	68,9	HCS-25-DKJ-20-090-W-M-W3
					.79	1.02	3.23	5.39	2.91	1.97	151.92	
31	1 1/4"	-20	1 5/8"-12UN	-20	26,0	32,5	91,5	151,5	99,0	50	102,7	HCS-31-DKJ-20-090-W-M-W3
					1.02	1.28	3.60	5.96	3.90	1.97	226.34	
31	1 1/4"	-20	1 7/8"-12 UN	-24	26,0	32,5	91,0	151,0	93,0	60	115,7	HCS-31-DKJ-24-090-W-M-W3
					1.02	1.28	3.58	5.94	3.66	2.36	255.01	
38	1 1/2"	-24	1 7/8"-12 UN	-24	31,0	38,9	116,5	184,0	110,0	60	163,4	HCS-38-DKJ-24-090-W-M-W3
					1.22	1.53	4.59	7.24	4.33	2.36	360.19	
51	2"	-32	2 1/2"-12 UN	-32	40,0	51,6	122,0	197,0	140,0	75	261,0	HCS-51-DKJ-32-090-W-M-W3
					1.57	2.03	4.80	7.76	5.51	2.95	575.39	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


Swage Ferrules Pages 14-21


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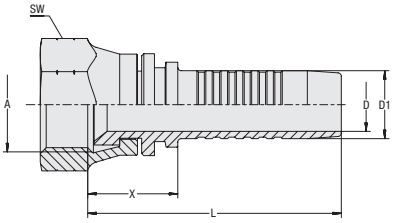

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A

Straight Insert with Female BSPP Thread and 60° Conical Bore
Type DKJG





Connection Type Female BSPP Nut Thread
Sealing Type 60° Conical Bore
Standard JIS 8363 (KOMATSU)

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal size DN 19 to DN 25)

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	G 1/4"	-04	3,9	6,7	14,1	44,3	19	2,9	HCS-06-DKJG-04-M-W3-KOM
					.15	.26	.56	1.74	.75	6.39	
08	5/16"	-05	G 3/8"	-06	5,4	8,2	19,3	49,5	22	4,8	HCS-08-DKJG-06-M-W3-KOM
					.21	.32	.76	1.95	.87	10.58	
10	3/8"	-06	G 3/8"	-06	6,5	9,9	16,3	49,8	22	4,9	HCS-10-DKJG-06-M-W3-KOM
					.26	.39	.64	1.96	.87	10.80	
12	1/2"	-08	G 1/2"	-08	9,5	13,0	18,6	54,1	27	8,2	HCS-12-DKJG-08-M-W3-KOM
					.37	.51	.73	2.13	1.06	18.08	
19	3/4"	-12	G 3/4"	-12	14,8	19,1	18,7	64,7	32	12,4	HCS-19-DKJG-12-M-W3-KOM
					.58	.75	.74	2.55	1.26	27.34	
25	1"	-16	G 1"	-16	20,0	25,9	22,7	77,9	41	22,5	HCS-25-DKJG-16-M-W3-KOM
					.79	1.02	.89	3.07	1.61	49.61	

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **45° Version** Page 73

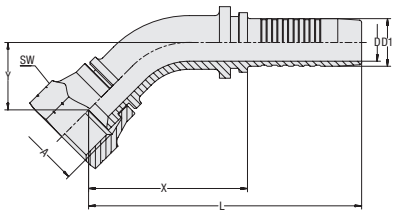
 **90° Version** Page 74

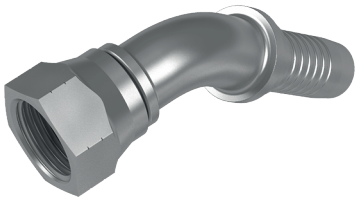
 **Mobile Interlocking Protection** Page 88

45° Elbow Insert with Female BSPP Thread and 60° Conical Bore
Type DKJG 45°

Connection Type Female BSPP Nut Thread
Sealing Type 60° Conical Bore
Standard JIS 8363 (KOMATSU)

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	G 1/4"	-04	3,9	6,7	42,8	73,0	18,8	19	2,9	HCS-06-DKJG-04-045-M-W3-KOM
					.15	.26	1.69	2.87	.74	.75	6.39	
08	5/16"	-05	G 3/8"	-06	5,4	8,2	44,3	73,7	14,0	22	5,6	HCS-08-DKJG-06-045-M-W3-KOM
					.21	.32	1.74	2.90	.55	.87	12.35	
10	3/8"	-06	G 3/8"	-06	6,5	9,9	34,5	78,0	20,1	22	6,2	HCS-10-DKJG-06-045-M-W3-KOM
					.26	.39	1.36	3.07	.79	.87	13.67	
12	1/2"	-08	G 1/2"	-08	9,5	13,0	45,9	81,4	19,5	27	11,6	HCS-12-DKJG-08-045-M-W3-KOM
					.37	.51	1.81	3.20	.77	1.06	25.58	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

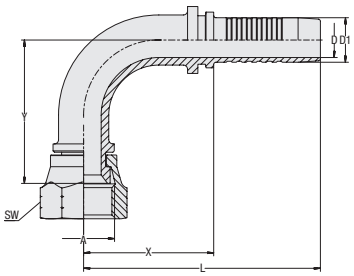
 **Straight Version** Page 72

 **90° Version** Page 74

A

90° Elbow Insert with Female BSPP Thread and 60° Conical Bore
Type DKJG 90°





Connection Type	Female BSPP Nut Thread
Sealing Type	60° Conical Bore
Standard	JIS 8363 (KOMATSU)
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	G 1/4"	-04	3,9	6,7	32,8	63,0	35,5	19	4,3	HCS-06-DKJG-04-090-M-W3-KOM
					.15	.26	1.29	2.48	1.40	.75	9.48	
08	5/16"	-05	G 3/8"	-06	5,4	8,2	32,3	62,5	36,0	22	5,2	HCS-08-DKJG-06-090-M-W3-KOM
					.21	.32	1.27	2.46	1.42	.87	11.47	
10	3/8"	-06	G 3/8"	-06	6,5	9,9	36,0	69,5	40,9	22	7,3	HCS-10-DKJG-06-090-M-W3-KOM
					.26	.39	1.42	2.74	1.61	.87	16.10	
12	1/2"	-08	G 1/2"	-08	9,5	13,0	45,5	81,0	40,0	27	13,3	HCS-12-DKJG-08-090-M-W3-KOM
					.37	.51	1.79	3.19	1.57	1.06	29.33	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

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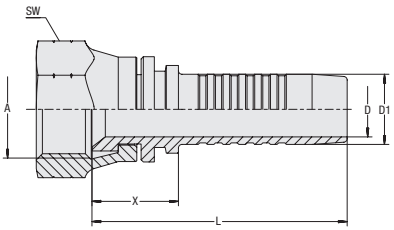
 **45° Version** Page 73

Straight Insert with Female Metric Thread and 60° Conical Bore Type DKJM

Connection Type Female Metric Nut Thread
Sealing Type 60° Conical Bore
Standard JIS 8363 (KOMATSU)

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)





Hose Size			Connection Size	Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	M14x1,5	3,9	6,7	16,7	46,9	19	3,1	HCS-06-DKJM-M14-C-M-W3-KOM
				.15	.26	.66	1.85	.75	6.84	
06	1/4"	-04	M16x1,5	3,9	6,7	19,8	50,0	19	3,4	HCS-06-DKJM-M16-C-M-W3-KOM
				.15	.26	.78	1.97	.75	7.50	
10	3/8"	-06	M16x1,5	6,5	9,9	17,3	50,8	19	3,6	HCS-10-DKJM-M16-C-M-W3-KOM
				.26	.39	.68	2.00	.75	7.94	
10	3/8"	-06	M18x1,5	6,5	9,9	17,5	51,0	22	5,3	HCS-10-DKJM-M18-C-M-W3-KOM
				.26	.39	.69	2.01	.87	11.69	
10	3/8"	-06	M20x1,5	6,5	9,9	17,6	51,1	24	6,0	HCS-10-DKJM-M20-C-M-W3-KOM
				.26	.39	.69	2.01	.94	13.23	
12	1/2"	-08	M22x1,5	9,5	13,0	21,0	56,5	27	8,5	HCS-12-DKJM-M22-C-M-W3-KOM
				.37	.51	.83	2.22	1.06	18.74	
12	1/2"	-08	M24x1,5	9,5	13,0	24,2	59,7	30	11,2	HCS-12-DKJM-M24-C-M-W3-KOM
				.37	.51	.95	2.35	1.18	24.70	
16	5/8"	-10	M24x1,5	12,6	16,0	21,8	60,3	30	11,0	HCS-16-DKJM-M24-C-M-W3-KOM
				.50	.63	.86	2.37	1.18	24.26	
16	5/8"	-10	M28x1,5	12,6	16,0	23,0	61,5	36	16,0	HCS-16-DKJM-M28-C-M-W3-KOM
				.50	.63	.91	2.42	1.42	35.28	
19	3/4"	-12	M30x1,5	14,8	19,1	22,2	68,2	36	17,6	HCS-19-DKJM-M30-C-M-W3-KOM
				.58	.75	.87	2.69	1.42	38.81	
25	1"	-16	M33x1,5	20,0	25,9	24,6	79,8	41	0,0	HCS-25-DKJM-M33-C-M-W3-KOM
				.79	1.02	.97	3.14	1.61	.00	
31	1 1/4"	-20	M36x1,5	26,0	32,5	27,4	87,4	46	37,3	HCS-31-DKJM-M36-C-M-W3-KOM
				1.02	1.28	1.08	3.44	1.81	82.25	
38	1 1/2"	-24	M42x1,5	31,0	38,9	26,5	94,2	50	51,5	HCS-38-DKJM-M42-C-M-W3-KOM
				1.22	1.53	1.04	3.71	1.97	113.56	

Related Products and Accessories

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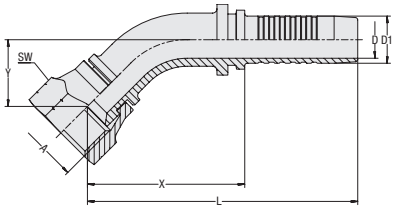
 **90° Version** Page 77

 **Mobile Interlocking Protection** Page 88

A

45° Elbow Insert with Female Metric Thread and 60° Conical Bore
Type DKJM 45°





Connection Type Female Metric Nut Thread
Sealing Type 60° Conical Bore
Standard JIS 8363 (KOMATSU)

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 25)

Hose Size			Connection Size	Dimensions ($^{mm}/_{in}$)						Weight ($^{kg}/_{lbs}$) ca.	Ordering Codes
DN	inch	Dash	Thread	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	M14x1,5	3,9	6,7	44,6	74,8	20,6	19	4,5	HCS-06-DKJM-M14-045-C-M-W3-KOM
				.15	.26	1.76	2.94	.81	.75	9.92	
10	3/8"	-06	M14x1,5	6,5	9,9	46,2	79,7	20,5	19	6,1	HCS-10-DKJM-M14-045-C-M-W3-KOM
				.26	.39	1.82	3.14	.81	.75	13.45	
10	3/8"	-06	M16x1,5	6,5	9,9	44,8	78,3	20,5	19	6,0	HCS-10-DKJM-M16-045-C-M-W3-KOM
				.26	.39	1.76	3.08	.81	.75	13.23	
10	3/8"	-06	M18x1,5	6,5	9,9	45,7	79,2	21,4	22	7,8	HCS-10-DKJM-M18-045-C-M-W3-KOM
				.26	.39	1.80	3.12	.84	.87	17.20	
12	1/2"	-08	M22x1,5	9,5	13,0	50,0	85,5	24,5	27	12,3	HCS-12-DKJM-M22-045-C-M-W3-KOM
				.37	.51	1.97	3.37	.96	1.06	27.12	
16	5/8"	-10	M24x1,5	12,6	16,0	54,4	92,9	25,0	30	16,3	HCS-16-DKJM-M24-045-C-M-W3-KOM
				.50	.63	2.14	3.66	.98	1.18	35.94	
19	3/4"	-12	M30x1,5	14,8	19,1	64,1	110,1	31,0	36	25,7	HCS-19-DKJM-M30-045-C-M-W3-KOM
				.58	.75	2.52	4.33	1.22	1.42	56.67	
25	1"	-16	M33x1,5	20,0	25,9	71,8	127,0	34,0	41	39,5	HCS-25-DKJM-M33-045-C-M-W3-KOM
				.79	1.02	2.83	5.00	1.34	1.61	87.10	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

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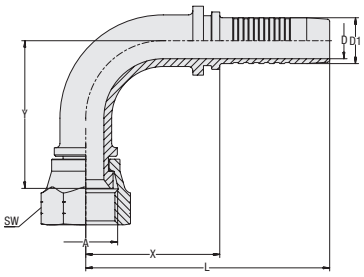
 **Mobile Interlocking Protection** Page 88

90° Elbow Insert with Female Metric Thread and 60° Conical Bore
Type DKJM 90°

Connection Type Female Metric Nut Thread
Sealing Type 60° Conical Bore
Standard JIS 8363 (KOMATSU)

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 25)





Hose Size			Connection Size	Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	M14x1,5	3,9	6,7	32,8	63,0	37,9	19	4,9	HCS-06-DKJM-M14-090-C-M-W3-KOM
				.15	.26	1.29	2.48	1.49	.75	10.80	
10	3/8"	-06	M14x1,5	6,5	9,9	37,0	70,5	41,4	19	7,1	HCS-10-DKJM-M14-090-C-M-W3-KOM
				.26	.39	1.46	2.78	1.63	.75	15.66	
10	3/8"	-06	M16x1,5	6,5	9,9	36,0	69,5	40,8	19	6,9	HCS-10-DKJM-M16-090-C-M-W3-KOM
				.26	.39	1.42	2.74	1.61	.75	15.21	
10	3/8"	-06	M18x1,5	6,5	9,9	40,5	74,0	37,4	22	8,8	HCS-10-DKJM-M18-090-C-M-W3-KOM
				.26	.39	1.59	2.91	1.47	.87	19.40	
10	3/8"	-06	M20x1,5	6,5	9,9	40,5	74,0	43,0	24	9,6	HCS-10-DKJM-M20-090-C-M-W3-KOM
				.26	.39	1.59	2.91	1.69	.94	21.17	
10	3/8"	-06	M22x1,5	6,5	9,9	51,0	84,5	46,8	27	11,8	HCS-10-DKJM-M22-090-C-M-W3-KOM
				.26	.39	2.01	3.33	1.84	1.06	26.02	
12	1/2"	-08	M22x1,5	9,5	13,0	49,0	84,5	43,2	27	13,7	HCS-12-DKJM-M22-090-C-M-W3-KOM
				.37	.51	1.93	3.33	1.70	1.06	30.21	
16	5/8"	-10	M24x1,5	12,6	16,0	55,0	93,5	54,2	30	18,2	HCS-16-DKJM-M24-090-C-M-W3-KOM
				.50	.63	2.17	3.68	2.13	1.18	40.13	
19	3/4"	-12	M30x1,5	14,8	19,1	63,4	109,4	62,6	36	29,3	HCS-19-DKJM-M30-090-C-M-W3-KOM
				.58	.75	2.50	4.31	2.46	1.42	64.61	
25	1"	-16	M33x1,5	20,0	25,9	77,8	133,0	71,3	41	45,5	HCS-25-DKJM-M33-090-C-M-W3-KOM
				.79	1.02	3.06	5.24	2.81	1.61	100.33	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

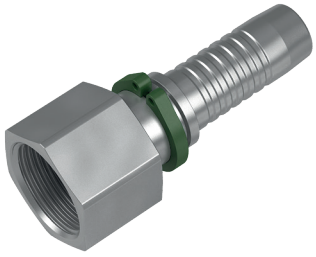
 **Straight Version** Page 75

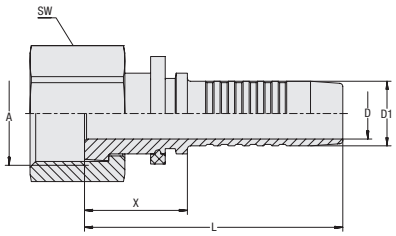
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 **Mobile Interlocking Protection** Page 88

A

Straight Insert with Female UN/UNF Thread for O-Ring Face Seal Connection Type ORS





Connection Type Female UN/UNF Nut Thread
Sealing Type O-Ring Face Seal
Standard ISO 8434-3

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	9/16"-18 UNF	-04	3,9	6,7	24,5	54,5	17	3,2	HCS-06-ORS-04-S-M-W3
					.15	.26	.96	2.15	.67	.13	
06	1/4"	-04	11/16"-16 UN	-06	3,9	6,7	30,0	60,0	22	6,4	HCS-06-ORS-06-S-M-W3
					.15	.26	1.18	2.36	.87	.25	
08	5/16"	-05	11/16"-16 UN	-06	5,4	8,2	31,0	61,0	22	6,3	HCS-08-ORS-06-S-M-W3
					.21	.32	1.22	2.40	.87	.25	
10	3/8"	-06	11/16"-16 UN	-06	6,5	9,9	21,5	55,0	22	6,1	HCS-10-ORS-06-S-M-W3
					.26	.39	.85	2.17	.87	.24	
10	3/8"	-06	13/16"-16 UN	-08	6,5	9,9	28,5	62,0	24	7,7	HCS-10-ORS-08-S-M-W3
					.26	.39	1.12	2.44	.94	.30	
12	1/2"	-08	13/16"-16 UN	-08	9,5	13,0	23,5	59,0	24	8,1	HCS-12-ORS-08-S-M-W3
					.37	.51	.93	2.32	.94	.32	
12	1/2"	-08	1"-14 UNS	-10	9,5	13,0	33,0	68,5	30	13,5	HCS-12-ORS-10-S-M-W3
					.37	.51	1.30	2.70	1.18	.53	
16	5/8"	-10	1"-14 UNS	-10	12,6	16,0	25,5	64,0	30	12,7	HCS-16-ORS-10-S-M-W3
					.50	.63	1.00	2.52	1.18	.50	
16	5/8"	-10	1 3/16"-12 UN	-12	12,6	16,0	25,5	64,0	36	19,3	HCS-16-ORS-12-S-M-W3
					.50	.63	1.00	2.52	1.42	.76	
19	3/4"	-12	1 3/16"-12 UN	-12	14,8	19,1	41,6	87,6	36	22,8	HCS-19-ORS-12-S-M-W3
					.58	.75	1.64	3.45	1.42	.90	
19	3/4"	-12	1 7/16"-12 UN	-16	14,8	19,1	37,5	83,5	41	30,1	HCS-19-ORS-16-S-M-W3
					.58	.75	1.48	3.29	1.61	1.19	
25	1"	-16	1 7/16"-12 UN	-16	20,0	25,9	40,3	95,5	41	33,2	HCS-25-ORS-16-S-M-W3
					.79	1.02	1.59	3.76	1.61	1.31	
25	1"	-16	1 11/16"-12 UN	-20	20,0	25,9	38,5	93,5	50	46,3	HCS-25-ORS-20-S-M-W3
					.79	1.02	1.52	3.68	1.97	1.82	
31	1 1/4"	-20	1 11/16"-12 UN	-20	26,0	32,5	41,5	101,5	50	50,0	HCS-31-ORS-20-S-M-W3
					1.02	1.28	1.63	4.00	1.97	1.97	
38	1 1/2"	-24	2"-12 UN	-24	31,0	38,9	41,8	109,5	60	71,8	HCS-38-ORS-24-S-M-W3
					1.22	1.53	1.65	4.31	2.36	2.83	

Related Products and Accessories

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 **ECOVOS VA Version** Page 135

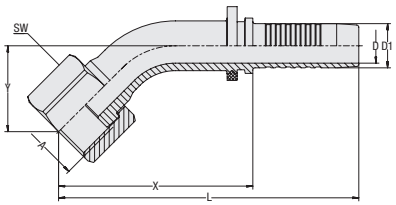
 **MULTIVOS Version** Page 169

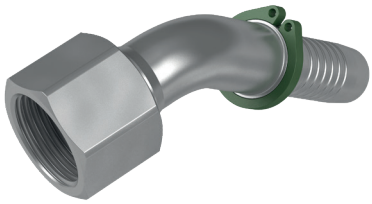
45° Elbow Insert with Female UN/UNF Thread for O-Ring Face Seal Connection Type ORS 45°

Connection Type Female UN/UNF Nut Thread
Sealing Type O-Ring Face Seal
Standard ISO 8434-3

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	9/16"-18 UNF	-04	3,9	6,7	41,2	71,4	17,2	17	3,7	HCS-06-ORS-04-045-S-M-W3
					.15	.26	1.62	2.81	.68	.67	8.16	
06	1/4"	-04	11/16"-16 UN	-06	3,9	6,7	43,4	73,6	19,4	22	5,9	HCS-06-ORS-06-045-S-M-W3
					.15	.26	1.71	2.90	.76	.87	13.01	
08	5/16"	-05	11/16"-16 UN	-06	5,4	8,2	42,1	72,3	18,6	22	0,0	HCS-08-ORS-06-045-S-M-W3
					.21	.32	1.66	2.85	.73	.87	.00	
10	3/8"	-06	11/16"-16 UN	-06	6,5	9,9	43,0	76,5	18,0	22	7,6	HCS-10-ORS-06-045-S-M-W3
					.26	.39	1.69	3.01	.71	.87	16.76	
10	3/8"	-06	13/16"-16 UN	-08	6,5	9,9	44,5	78,0	19,5	22	8,9	HCS-10-ORS-08-045-S-M-W3
					.26	.39	1.75	3.07	.77	.87	19.62	
12	1/2"	-08	13/16"-16 UN	-08	9,5	13,0	47,5	82,5	21,0	24	10,2	HCS-12-ORS-08-045-S-M-W3
					.37	.51	1.87	3.25	.83	.94	22.49	
12	1/2"	-08	1"-14 UNS	-10	9,5	13,0	45,3	80,8	19,1	30	14,4	HCS-12-ORS-10-045-S-M-W3
					.37	.51	1.78	3.18	.75	1.18	31.75	
16	5/8"	-10	1"-14 UNS	-10	12,6	16,0	52,5	91,0	23,5	30	16,0	HCS-16-ORS-10-045-S-M-W3
					.50	.63	2.07	3.58	.93	1.18	35.28	
19	3/4"	-12	1 3/16"-12 UN	-12	14,8	19,1	60,8	106,8	27,3	36	26,9	HCS-19-ORS-12-045-S-M-W3
					.58	.75	2.39	4.20	1.07	1.42	59.29	
25	1"	-16	1 7/16"-12 UN	-16	20,0	25,9	89	144	37,5	41	0,0	HCS-25-ORS-16-045-S-M-W3
					.79	1.02	3.50	5.67	1.48	1.61	.00	
25	1"	-16	1 11/16"-12 UN	-20	20,0	25,9	80,5	135,5	34,0	50	55,6	HCS-25-ORS-20-045-S-M-W3
					.79	1.02	3.17	5.33	1.34	1.97	122.60	
31	1 1/4"	-20	1 11/16"-12 UN	-20	26,0	32,5	79,8	139,8	33,5	50	72,3	HCS-31-ORS-20-045-S-M-W3
					1.02	1.28	3.14	5.50	1.32	1.97	159.42	
38	1 1/2"	-24	2"-12 UN	-24	31,0	38,9	79,8	147,5	32,6	60	108,1	HCS-38-ORS-24-045-S-M-W3
					1.22	1.53	3.14	5.81	1.28	2.36	238.36	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


Swage Ferrules Pages 14-21


Straight Version Page 77

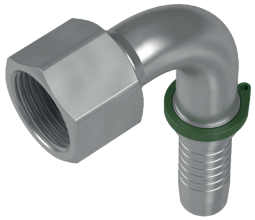

MULTIVOS Version Page 169

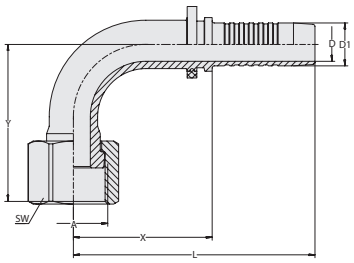

Mobile Interlocking Protection Page 88


90° Version Page 79

A

90° Elbow Insert with Female UN/UNF Thread for O-Ring Face Seal Connection Type ORS 90°





Connection Type Female UN/UNF Nut Thread
Sealing Type O-Ring Face Seal
Standard ISO 8434-3

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Suitable for use with mobile interlocking protection (nominal sizes DN 16 to DN 31)

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	9/16"-18 UNF	-04	3,9	6,7	32,8	63,0	33,1	17	3,7	HCS-06-ORS-04-090-S-M-W3
					.15	.26	1.29	2.48	1.30	.67	8.16	
06	1/4"	-04	11/16"-16 UN	-06	3,9	6,7	32,8	63,0	36,3	22	0,0	HCS-06-ORS-06-090-S-M-W3
					.15	.26	1.29	2.48	1.43	.87	.00	
08	5/16"	-05	11/16"-16 UN	-06	5,4	8,2	32,3	62,5	35,1	22	0,0	HCS-08-ORS-06-090-S-M-W3
					.21	.32	1.27	2.46	1.38	.87	.00	
10	3/8"	-06	11/16"-16 UN	-06	6,5	9,9	37,0	70,5	37,0	22	8,9	HCS-10-ORS-06-090-S-M-W3
					.26	.39	1.46	2.78	1.46	.87	19.51	
10	3/8"	-06	13/16"-16 UN	-08	6,5	9,9	37,0	70,5	39,5	24	9,3	HCS-10-ORS-08-090-S-M-W3
					.26	.39	1.46	2.78	1.56	.94	20.51	
12	1/2"	-08	13/16"-16 UN	-08	9,5	13,0	40,5	76,0	43,5	24	14,6	HCS-12-ORS-08-090-S-M-W3
					.37	.51	1.59	2.99	1.71	.94	32.08	
12	1/2"	-08	1"-14 UNS	-10	9,5	13,0	38,5	74,0	39,4	30	14,5	HCS-12-ORS-10-090-S-M-W3
					.37	.51	1.52	2.91	1.55	1.18	31.97	
16	5/8"	-10	1"-14 UNS	-10	12,6	16,0	45,0	83,5	49,0	30	18,8	HCS-16-ORS-10-090-S-M-W3
					.50	.63	1.77	3.29	1.93	1.18	41.34	
19	3/4"	-12	1 3/16"-12 UN	-12	14,8	19,1	52,8	98,8	58,0	36	29,4	HCS-19-ORS-12-090-S-M-W3
					.58	.75	2.08	3.89	2.28	1.42	64.83	
25	1"	-16	1 7/16"-12 UN	-16	20,0	25,9	61,4	116,6	66,5	41	0,0	HCS-25-ORS-16-090-S-M-W3
					.79	1.02	2.42	4.59	2.62	1.61	.00	
25	1"	-16	1 11/16"-12 UN	-20	20,0	25,9	70,5	125,5	70,5	50	62,8	HCS-25-ORS-20-090-S-M-W3
					.79	1.02	2.78	4.94	2.78	1.97	138.36	
31	1 1/4"	-20	1 11/16"-12 UN	-20	26,0	32,5	76,3	136,3	78,2	50	67,1	HCS-31-ORS-20-090-S-M-W3
					1.02	1.28	3.00	5.37	3.08	1.97	147.96	
38	1 1/2"	-24	2"-12 UN	-24	31,0	38,9	82,3	150,0	81,3	60	132,1	HCS-38-ORS-24-090-S-M-W3
					1.22	1.53	3.24	5.91	3.20	2.36	291.28	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 14-21

 **Straight Version** Page 78

 **MULTIVOS Version** Page 170

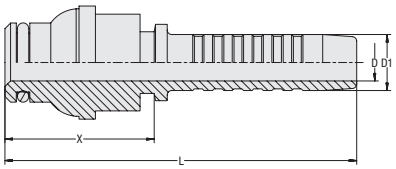
 **Mobile Interlocking Protection** Page 88

 **45° Version** Page 79

Straight Insert with Pressure Washer Connector Type WCS

Connection Type Pressure Washer Connector (without Slip Nut)
Sealing Type Spherical Head

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)



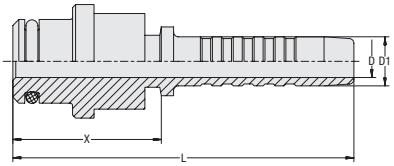


Hose Size			Dimensions (mm/in)				Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	X	L	per 100	
06	1/4"	-04	3,9	6,7	32,5	63,0	4,8	HCS-06-WCS-14-04-OR-B-M-W3
			.15	.26	1.28	2.48	10.47	
08	5/16"	-05	5,4	8,2	32,5	63,0	4,8	HCS-08-WCS-14-05-OR-B-M-W3
			.21	.32	1.28	2.48	10.47	
10	3/8"	-06	6,5	9,9	28,5	62,0	4,7	HCS-10-WCS-14-06-OR-B-M-W3
			.26	.39	1.12	2.44	10.25	

Straight Insert with Pressure Washer Connector Type WCC

Connection Type Pressure Washer Connector (without Slip Nut)
Sealing Type Cylindrical

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)



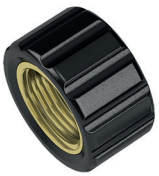


Hose Size			Dimensions (mm/in)				Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	X	L	per 100	
06	1/4"	-04	3,9	6,7	29,5	59,5	3,9	HCS-06-WCC-14-04-OR-B-M-W3
			.15	.26	1.16	2.34	8.60	
08	5/16"	-05	5,4	8,2	27,0	57,0	3,7	HCS-08-WCC-14-05-OR-B-M-W3
			.21	.32	1.06	2.24	8.05	

Slip Nut for Straight Insert with Pressure Washer Connector Type SN-WC

Thread M22x1,5
Material Brass / Plastic

Ordering Codes
SN-WC-M22x1.5-W69



Related Products and Accessories

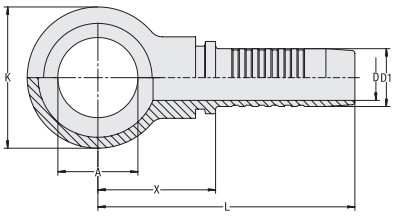


Swage Ferrules Pages 14-21

A

Straight Metric Banjo Insert
Type RGN





Connection Type	Banjo for Metric Banjo Bolts
Sealing Type	Copper Ring
Standard	DIN 7642
Material	Carbon Steel
Surface Finishing	Zinc-Plating and Thick-Film-Passivation

Hose Size			Banjo Bolt		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	AØ	D	D1	K	X	L	per 100	
05	1/8"	-03	M10	-03	10,1	3,0	5,1	17,0	24,8	47,8	1,5	HCS-05-RGN-03-M-W66V
					.40	.12	.20	.67	.98	1.88	3.31	
05	1/8"	-03	M12	-04	12,1	3,0	5,1	20,0	21,5	44,5	1,6	HCS-05-RGN-04-M-W66V
					.48	.12	.20	.79	.85	1.75	3.53	
06	1/4"	-04	M12	-04	12,1	4,0	6,8	20,0	28,3	54,8	2,7	HCS-06-RGN-04-M-W66V
					.48	.16	.27	.79	1.11	2.16	5.95	
06	1/4"	-04	M10	-03	10,1	4,0	6,8	17,0	24,8	51,3	1,6	HCS-06-RGN-03-M-W66V
					.40	.16	.27	.67	.98	2.02	3.53	
06	1/4"	-04	M14	-05	14,1	4,0	6,8	24,0	24,8	51,3	2,9	HCS-06-RGN-05-M-W66V
					.56	.16	.27	.94	.98	2.02	6.39	
06	1/4"	-04	M16	-06	16,1	4,0	6,8	28,0	26,7	53,2	3,2	HCS-06-RGN-06-M-W66V
					.63	.16	.27	1.10	1.05	2.09	7.06	
06	1/4"	-04	M18	-08	18,1	4,0	6,8	32,0	31,9	58,4	3,4	HCS-06-RGN-08-M-W66V
					.71	.16	.27	1.26	1.26	2.30	7.50	
08	5/16"	-05	M14	-05	14,1	5,5	8,3	24,0	23,3	49,8	3,2	HCS-08-RGN-05-M-W66V
					.56	.22	.33	.94	.92	1.96	7.06	
08	5/16"	-05	M12	-04	12,1	5,5	8,3	20,0	28,1	54,6	2,8	HCS-08-RGN-04-M-W66V
					.48	.22	.33	.79	1.11	2.15	6.17	
08	5/16"	-05	M16	-06	16,1	5,5	8,3	28,0	26,8	53,3	4,6	HCS-08-RGN-06-M-W66V
					.63	.22	.33	1.10	1.06	2.10	10.14	
08	5/16"	-05	M18	-08	18,1	5,5	8,3	32,0	31,7	58,2	8,1	HCS-08-RGN-08-M-W66V
					.71	.22	.33	1.26	1.25	2.29	17.86	
10	3/8"	-06	M16	-06	16,1	7,0	9,9	28,0	26,9	57,4	4,9	HCS-10-RGN-06-M-W66V
					.63	.28	.39	1.10	1.06	2.26	10.80	
10	3/8"	-06	M14	-05	14,1	7,0	9,9	24,0	25,4	55,9	3,5	HCS-10-RGN-05-M-W66V
					.56	.28	.39	.94	1.00	2.20	7.72	
10	3/8"	-06	M18	-08	18,1	7,0	9,9	32,0	32,3	62,8	8,0	HCS-10-RGN-08-M-W66V
					.71	.28	.39	1.26	1.27	2.47	17.64	
10	3/8"	-06	M22	-10	22,1	7,0	9,9	36,0	32,3	62,8	9,5	HCS-10-RGN-10-M-W66V
					.87	.28	.39	1.42	1.27	2.47	20.95	
12	1/2"	-08	M18	-08	18,1	9,5	13,1	32,0	29,3	61,8	8,5	HCS-12-RGN-08-M-W66V
					.71	.37	.52	1.26	1.15	2.43	18.74	
12	1/2"	-08	M22	-10	22,1	9,5	13,1	36,0	29,6	62,1	9,6	HCS-12-RGN-10-M-W66V
					.87	.37	.52	1.42	1.17	2.44	21.17	
16	5/8"	-10	M22	-10	22,1	12,0	16,2	36,0	30,5	70,5	10,9	HCS-16-RGN-10-M-W66V
					.87	.47	.64	1.42	1.20	2.78	24.03	
16	5/8"	-10	M26	-12	26,1	12,0	16,2	45,0	38,0	78,0	16,0	HCS-16-RGN-12-M-W66V
					1.03	.47	.64	1.77	1.50	3.07	35.28	
19	3/4"	-12	M26	-12	26,1	15,0	19,3	45,0	38,0	82,3	17,5	HCS-19-RGN-12-M-W66V
					1.03	.59	.76	1.77	1.50	3.24	38.59	

Related Products and Accessories

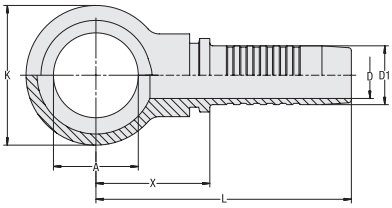


Swage Ferrules Pages 14-21

Straight Imperial Banjo Insert Type RGNG

Connection Type Banjo for Imperial Banjo Bolts
Sealing Type Copper Ring
Standard DIN 7642

Material Carbon Steel
Surface Finishing Zinc-Plating and Thick-Film-Passivation





Hose Size			Banjo Bolt		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	AØ	D	D1	K	X	L	per 100	
05	1/8"	-03	R 1/8"	-03	10,1	3,0	5,1	17,0	24,8	47,8	1,45	HCS-06-RGNG-03-M-W66V
					.40	.12	.20	.67	.98	1.88	3.20	
06	1/4"	-04	R 1/4"	-04	13,2	4,0	6,8	24,0	23,3	49,8	3,20	HCS-06-RGNG-04-M-W66V
					.52	.16	.27	.94	.92	1.96	7.06	
06	1/4"	-04	R 3/8"	-06	16,7	4,0	6,8	28,0	26,8	53,3	4,95	HCS-06-RGNG-06-M-W66V
					.66	.16	.27	1.10	1.06	2.10	10.91	
08	5/16"	-05	R 1/4"	-04	13,2	5,5	8,3	24,0	28,1	54,6	3,50	HCS-08-RGNG-04-M-W66V
					.52	.22	.33	.94	1.11	2.15	7.72	
08	5/16"	-05	R 3/8"	-06	16,7	5,5	8,3	28,0	26,8	53,3	5,05	HCS-08-RGNG-06-M-W66V
					.66	.22	.33	1.10	1.06	2.10	11.14	
08	5/16"	-05	R 1/2"	-08	21	5,5	8,3	36,0	28,9	55,4	8,85	HCS-10-RGNG-08-M-W66V
					.83	.22	.33	1.42	1.14	2.18	19.51	
10	3/8"	-06	R 3/8"	-06	16,7	7,0	9,9	28,0	26,9	57,4	5,50	HCS-10-RGNG-06-M-W66V
					.66	.28	.39	1.10	1.06	2.26	12.13	
10	3/8"	-06	R 1/4"	-04	13,2	7,0	9,9	24,0	23,4	53,9	4,00	HCS-10-RGNG-04-M-W66V
					.52	.28	.39	.94	.92	2.12	8.82	
10	3/8"	-06	R 1/2"	-08	21	7,0	9,9	36,0	29,0	59,5	9,25	HCS-10-RGNG-08-M-W66V
					.83	.28	.39	1.42	1.14	2.34	20.40	
12	1/2"	-08	R 1/2"	-08	21	9,5	13,1	36,0	29,6	62,1	9,60	HCS-12-RGNG-08-M-W66V
					.83	.37	.52	1.42	1.17	2.44	21.17	
12	1/2"	-08	R 3/8"	-06	16,7	9,5	13,1	28,0	27,5	60,0	6,35	HCS-12-RGNG-06-M-W66V
					.66	.37	.52	1.10	1.08	2.36	14.00	
12	1/2"	-08	R 3/4"	-12	26,35	9,5	13,1	45,0	39,0	71,5	15,65	HCS-12-RGNG-12-M-W66V
					1.04	.37	.52	1.77	1.54	2.81	34.51	
16	5/8"	-10	R 5/8"	-10	23	12,0	16,2	45,0	37,0	77,0	10,65	HCS-16-RGNG-10-M-W66V
					.91	.47	.64	1.77	1.46	3.03	23.48	
16	5/8"	-10	R 1/2"	-08	21	12,0	16,2	on request				HCS-16-RGNG-08-M-W66V
					.83	.47	.64					
16	5/8"	-10	R 3/4"	-12	26,5	12,0	16,2	45,0	39,0	79,0	20,40	HCS-16-RGNG-12-M-W66V
					1.04	.47	.64	1.77	1.54	3.11	44.98	
19	3/4"	-12	R 3/4"	-12	26,5	15,0	19,3	45,0	40,0	84,3	17,20	HCS-19-RGNG-12-M-W66V
					1.04	.59	.76	1.77	1.57	3.32	37.93	
19	3/4"	-12	R 1"	-16	33,3	15,0	19,3	58,0	46,6	90,9	34,70	HCS-19-RGNG-16-M-W66V
					1.31	.59	.76	2.28	1.83	3.58	76.51	
25	1"	-16	R 1"	-16	33,3	20,0	25,6	58,0	47,0	101,3	39,85	HCS-25-RGNG-16-M-W66V
					1.31	.79	1.01	2.28	1.85	3.99	87.87	

Related Products and Accessories



Swage Ferrules Pages 14-21



	Introduction	**86**
	**Skive Swage Ferrule for Spiral Hose** Series 15037	**88**
	**Mobile Interlocking Protection Ring**	**88**
	**Assembly Tools** (Conical Sleeve and Plastic Slider)	**89**
	Assembly Instructions	**89**

B

- **Maximum coverage with few standard components**
- **Reduction in investments costs for initial equipment and warehouse**
- **More space in the warehouse and hydraulic express service vehicles**
- **No need to duplicate stock-keeping of similar components with a high likelihood of confusion**
- **Gain in flexibility and rapidity to the customer's advantage**

The mobile interlocking protection from STAUFF turns a regular ECOVOS hose insert into an interlock connector in no time at all, thereby avoiding double warehouse-keeping.

Up to now, special accessories have been required for interlocking hose connections. In order to ensure rapid delivery, all nominal widths had to be kept available in duplicate, one as a standard version and a second as an interlock version.

With the mobile interlocking protection from STAUFF, only standard ECOVOS hose inserts are now required.

The number of components now to be kept on hand is thereby reduced by more than 50 %.

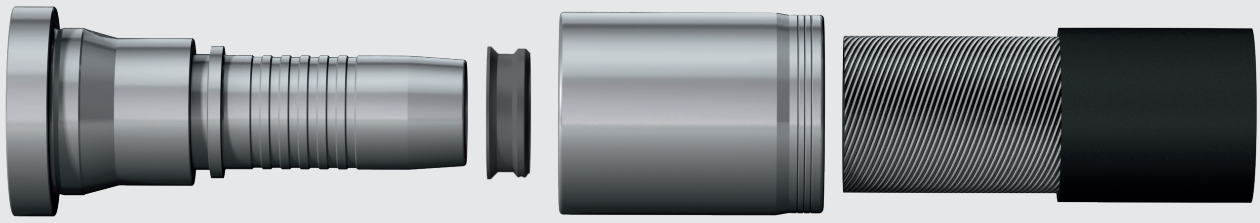
Ranging from textile hoses, including skived and non-skived hoses with wire mesh to interlock applications with a multispiral hose, the same now applies: a single hose connector system for all applications.

For the initial equipment of new sites, this means: maximum coverage with fewer components, reduction in investments costs for initial equipment and warehouse.

Hydraulic express service with mobile workshops particularly benefits from the new system: On the one hand as a result of the gain in space in the emergency vehicles, on the other hand through the ability to cover with the modular system a product range that was hitherto inconceivable.

A gain in flexibility and rapidity to the customer's advantage is guaranteed.

With a standard ECOVOS hose insert, the mobile interlocking protection ring and the appropriate swage ferrule from the ECOVOS+ range, you can configure your own interlocking hose connection while remaining flexible.

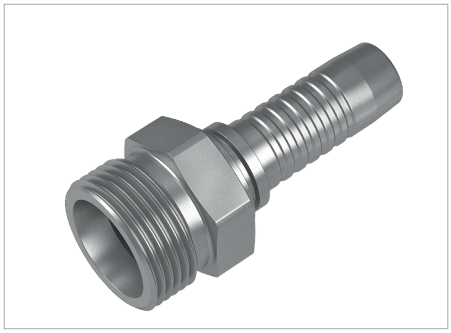


Standard ECOVOS Hose Insert | Mobile Interlocking Protection Ring | ECOVOS+ Swage Ferrule | Hose

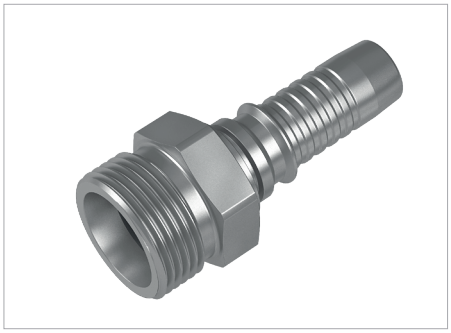
For large-scale applications for which particularly rational manufacture is essential, ECOVOS+ hose insert with integrated interlocking protection rings are also available upon request.

The swage ferrule used from the ECOVOS+ range is the same for both versions.

Whatever version you decide on: the result is always interlocking hose connections of highest quality and reliability.



ECOVOS Straight Hose Insert
without Interlocking Protection



ECOVOS+ Straight Hose Insert
with Integrated Interlocking Protection Ring



ECOVOS+ Hose Insert
with Integrated Interlocking Protection Ring

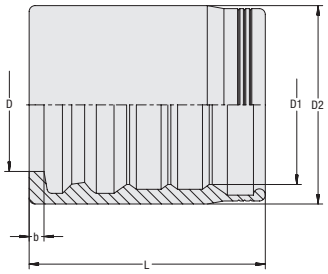
ECOVOS+
Swage Ferrule

Hose

B

Internal & External Skive Swage Ferrule for Spiral Hose Series 15037





Ferrule Type with Pull-Out Protection (Interlock)

Suitable for 4SP, 4SH, R15 (DN 19 / DN 25)

Standards EN 856, SAE 100 R15

Material Carbon Steel

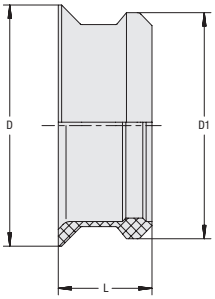
Surface Finishing Zinc/Nickel-Plating

Maximum working pressures depending on the type of the hose connector and the hose type.

Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
16	5/8"	-10	22,6	27	33,6	40,0	2,5	7,55	HF-5002-16-W3
			.89	1.06	1.32	1.57	.10	16.65	
19	3/4"	-12	25,5	30,2	39,0	50,0	3,0	15,5	HF-5002-19-W3
			1.00	1.19	1.54	1.97	.12	34.18	
25	1"	-16	31,0	36,7	46,0	60,0	3,7	22,9	HF-5002-25-W3
			1.22	1.44	1.81	2.36	.15	50.49	
31	1 1/4"	-20	39,2	47,0	57,0	65,0	4,0	34,1	HF-5002-31-W3
			1.54	1.85	2.24	2.56	.16	75.19	
38	1 1/2"	-24	45,0	53,7	65,0	73,0	4,3	52,1	HF-5002-38-W3
			1.77	2.11	2.56	2.87	.17	114.88	
51	2"	-32	58,5	66,0	78,0	80,0	4,3	70,2	HF-5002-51-W3
			2.30	2.60	3.07	3.15	.17	154.79	

Mobile Interlocking Protection Ring Type AS





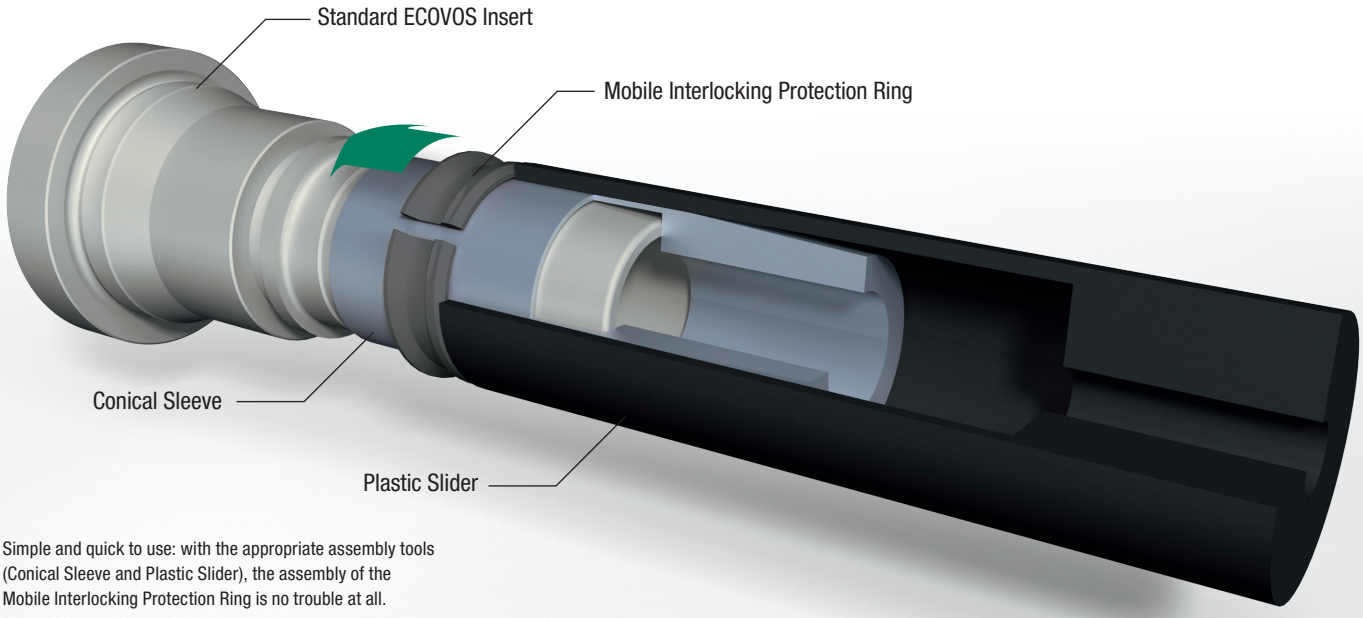
Hose Size			Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	D3	L	L1	per 100	
16	5/8"	-10	20,0	16,8	15,3	19,5	7,5	5,0	5,5	HCE-AS-16-PEK
			.79	.66	.60	.77	.30	.20	12.13	
19	3/4"	-12	24,0	20,1	18,5	22,5	9,5	5,9	9,6	HCE-AS-19-PEK
			.94	.79	.73	.89	.37	.23	21.17	
25	1"	-16	30,0	26,7	25,2	29,1	9,5	5,9	11,9	HCE-AS-25-PEK
			1.18	1.05	.99	1.15	.37	.23	26.24	
31	1 1/4"	-20	37,5	33,4	31,8	36,1	11,5	7,8	20,2	HCE-AS-31-PEK
			1.48	1.31	1.25	1.42	.45	.31	44.54	
38	1 1/2"	-24	43,8	39,5	37,9	42,4	15,5	10,8	33,8	HCE-AS-38-PEK
			1.72	1.56	1.49	1.67	.61	.43	74.53	
51	2"	-32	56,0	53,1	50,6	52,6	15,5	10,8	51,0	HCE-AS-51-PEK
			2.20	2.09	1.99	2.07	.61	.43	112.46	

Assembly Tools (Conical Sleeve and Plastic Slider)



Hose Size			Ordering Codes
DN	inch	Dash	
16	5/8"	-10	HCE-AS-16-AT
19	3/4"	-12	HCE-AS-19-AT
25	1"	-16	HCE-AS-25-AT
31	1 1/4"	-20	HCE-AS-31-AT
38	1 1/2"	-24	HCE-AS-38-AT
51	2"	-32	HCE-AS-51-AT

Assembly Instructions



Simple and quick to use: with the appropriate assembly tools (Conical Sleeve and Plastic Slider), the assembly of the Mobile Interlocking Protection Ring is no trouble at all.

The Mobile Interlocking Protection Ring is pushed over the Conical Sleeve using the Plastic Slider until it reaches the end position where it engages securely with a positive fit.

Swaging with a skived spiral hose and ferrule is subsequently performed as usual with the same tools and machines.





Non-Skive Swage Ferrule for Braided Hose

Series 15011 **92**



Skive/Non-Skive Swage Ferrule for Braided Hose

Series 15021 **93**



Skive Swage Ferrule for Braided and Spiral Hose

Series 15031 **94**



Non-Skive Swage Ferrule for Hose with Textile Insert

Series 15330 **95**


Straight Insert with Standpipe **BEL** (Light Series) 96


45° Elbow Insert with Standpipe **BEL** 45° (Light Series) 97


90° Elbow Insert with Standpipe **BEL** 90° (Light Series) 98


Straight Insert with Standpipe BES (Heavy Series) 99


45° Elbow Insert with Standpipe BES 45° (Heavy Series) 100


90° Elbow Insert with Standpipe BES 90° (Heavy Series) 101


Straight Insert with Male Metric Thread and 24° Conical Bore CEL (Light Series) 102


Straight Insert with Male Metric Thread and 24° Conical Bore CES (Heavy Series) 103


Straight Insert with Female Metric Nut Thread and 24° Taper DKL (Light Series) 104


45° Elbow Insert with Female Metric Nut Thread and 24° Taper DKL 45° (Light Series) 105


90° Elbow Insert with Female Metric Nut Thread and 24° Taper DKL 90° (Light Series) 106


Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring DKOL (Light Series) 107


45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring DKOL 45° (Light Series) 109


90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring DKOL 90° (Light Series) 109


Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring DKOS (Heavy Series) 110


45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring DKOS 45° (Heavy Series) 111


90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring DKOS 90° (Heavy Series) 112


Straight Insert with Female Metric Nut Thread and Metal Seat DKK 113


90° Elbow Insert with Female Metric Thread and Metal Seat DKK 90° 114


Straight Insert with Male BSPP Thread and 60° Conical Bore AGR 116


Straight Insert with Male UN/UNF Thread and 74° Taper AGJ 117


Straight Insert with Male BSPP Thread AGRF 118


Straight Insert with Male BSPT Thread AGRK 119


Straight Insert with Male NPTF Thread and 60° Conical Bore AGN 120


Straight Insert with SAE Flange Adaptor SFL (3000 PSI Series) 121


45° Elbow Insert with SAE Flange Adaptor SFL 45° (3000 PSI Series) 122


90° Elbow Insert with SAE Flange Adaptor SFL 90° (3000 PSI Series) 123


Straight Insert with SAE Flange Adaptor SFS (6000 PSI Series) 124


45° Elbow Insert with SAE Flange Adaptor SFS 45° (6000 PSI Series) 125


90° Elbow Insert with SAE Flange Adaptor SFS 90° (6000 PSI Series) 126


Straight Insert with Female BSPP Thread and 60° Taper DKR 127


45° Elbow Insert with Female BSPP Thread and 60° Taper DKR 45° 128


90° Elbow Insert with Female BSPP Thread and 60° Taper DKR 90° 129


Straight Insert with Female BSPP Thread DKRF 130


90° Elbow Insert with Female BSPP Thread DKRF 90° 131


Straight Insert with Female UN/UNF Thread and 74° Conical Bore DKJ 132


45° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore DKJ 45° 133

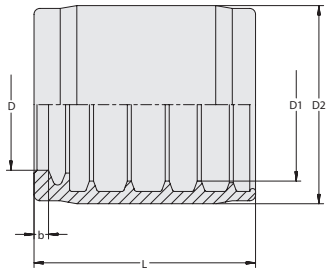

90° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore DKJ 90° 134


Straight Insert with Female UN/UNF Thread for O-Ring Face Seal Connection ORS 135


Straight Insert with Female BSPP Thread and 60° Taper / O-Ring DKOR 136

Non-Skive Swage Ferrule for Braided Hose
Series 15011





Suitable for 1SN, 2SN, 2SC, 2SN-K
Standards EN 853, EN 857

Material Stainless Steel

Maximum working pressures depending on the type of the hose connector and the hose type.

C

Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
06	1/4"	-04	11,3	15,7	21,0	31,0	2,5	2,7	HF-1000-06-W5
			-.16	.62	.83	1.22	.10	5.93	
08	5/16"	-05	12,7	17,3	22,5	31,0	2,5	2,9	HF-1000-08-W5
			-.20	.68	.89	1.22	.10	6.28	
10	3/8"	-06	15,0	19,8	26,5	33,0	2,6	5,0	HF-1000-10-W5
			-.24	.78	1.04	1.30	.10	10.91	
12	1/2"	-08	18,3	23,0	30,0	36,0	2,6	6,2	HF-1000-12-W5
			-.31	.91	1.18	1.42	.10	13.67	
16	5/8"	-10	22,0	26,2	34,0	38,0	2,6	8,2	HF-1000-16-W5
			-.39	1.03	1.34	1.50	.10	17.97	
19	3/4"	-12	25,0	30,1	38,0	44,0	3,0	10,8	HF-1000-19-W5
			-.47	1.19	1.50	1.73	.12	23.81	
25	1"	-16	32,3	38,8	47,0	52,0	3,8	17,3	HF-1000-25-W5
			-.63	1.53	1.85	2.05	.15	38.15	
31	1 1/4"	-20	40,0	49,3	57,0	60,0	4,1	23,0	HF-1000-31-W5
			-.79	1.94	2.24	2.36	.16	50.72	
38	1 1/2"	-24	46,6	55,8	65,0	73,0	4,2	41,1	HF-1000-38-W5
			-.94	2.20	2.56	2.87	.17	90.52	
51	2"	-32	58,9	68,5	78,0	80,0	4,4	52,5	HF-1000-51-W5
			-1.26	2.70	3.07	3.15	.17	115.76	

Related Products and Accessories



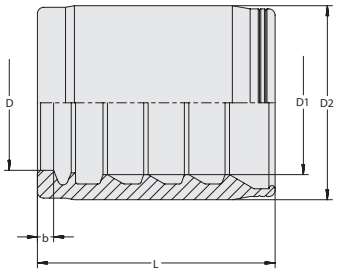
Test Mandrels Pages 185-187

Skive/Non-Skive Swage Ferrule for Braided Hose Series 15021

Suitable for 1SN, 2SC, 2SN-K, 1SC, 1SN-K
Standards EN 853, EN 857

Material Stainless Steel

Maximum working pressures depending on the type of the hose connector and the hose type.





C

Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
06	1/4"	-04	11,0	13,2	20,0	31,0	2,5	3,1	HF-2001-06-W5
			.43	.52	.79	1.22	.10	6.84	
08	5/16"	-05	12,6	15,5	20,6	31,0	2,5	8,3	HF-2001-08-W5
			.50	.61	.81	1.22	.10	18.30	
10	3/8"	-06	14,1	16,6	23,6	33,0	2,5	4,4	HF-2001-10-W5
			.56	.65	.93	1.30	.10	9.59	
12	1/2"	-08	17,6	19,5	27,0	35,0	2,5	5,7	HF-2001-12-W5
			.69	.77	1.06	1.38	.10	12.57	
16	5/8"	-10	21,6	23,0	31,0	38,0	2,5	7,7	HF-2001-16-W5
			.85	.91	1.22	1.50	.10	17.04	
19	3/4"	-12	24,5	26,8	35,0	44,0	3,0	10,4	HF-2001-19-W5
			.96	1.06	1.38	1.73	.12	22.82	
25	1"	-16	30,4	34,1	42,0	52,0	3,7	28,6	HF-2001-25-W5
			1.20	1.34	1.65	2.05	.15	62.95	
38	1 1/2"	-24	44,4	51,3	62,0	68,0	4,3	41,9	HF-2001-38-W5
			1.75	2.02	2.44	2.68	.17	92.28	
51	2"	-32	56,7	64,0	75,0	80,0	4,3	62,9	HF-2001-51-W5
			2.23	2.52	2.95	3.15	.17	138.69	

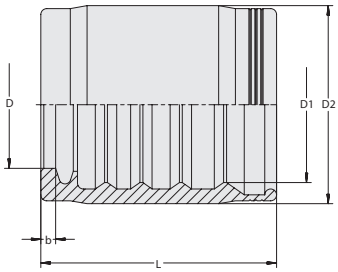
Related Products and Accessories



Test Mandrels Pages 185-187

Skive Swage Ferrule for Braided and Spiral Hose
Series 15031





Suitable for 2SN, SPC3, 4SP
Standards EN 853, EN 856

Material Stainless Steel

Maximum working pressures depending on the type of the hose connector and the hose type.

C

Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
06	1/4"	-04	11,0	15,5	22,0	34,0	2,5	4,0	HF-3000-06-W5
			.43	.61	.87	1.34	.10	.16	
08	5/16"	-05	12,1	17,2	23,0	31,0	2,5	3,7	HF-3000-08-W5
			.48	.68	.91	1.22	.10	.14	
10	3/8"	-06	14,2	18,9	26,0	38,0	2,5	5,7	HF-3000-10-W5
			.56	.74	1.02	1.50	.10	.22	
12	1/2"	-08	18,5	22,2	30,0	40,0	2,5	7,7	HF-3000-12-W5
			.73	.87	1.18	1.57	.10	.30	
16	5/8"	-10	21,6	26,4	33,6	40,0	2,5	8,6	HF-3000-16-W5
			.85	1.04	1.32	1.57	.10	.34	
19	3/4"	-12	24,6	30,2	39,0	50,0	3,0	15,7	HF-3000-19-W5
			.97	1.19	1.54	1.97	.12	.62	
25	1"	-16	30,9	37,3	45,5	60,0	3,7	19,7	HF-3000-25-W5
			1.22	1.47	1.79	2.36	.15	.77	
31	1 1/4"	-20	38,7	46,8	58,0	70,0	4,0	42,6	HF-3000-31-W5
			1.52	1.84	2.28	2.76	.16	1.68	
38	1 1/2"	-24	44,2	53,7	65,0	73,0	4,3	53,5	HF-3000-38-W5
			1.74	2.11	2.56	2.87	.17	2.10	
51	2"	-32	57,3	66,6	78,0	80,0	4,3	72,2	HF-3000-51-W5
			2.26	2.62	3.07	3.15	.17	2.84	

Related Products and Accessories



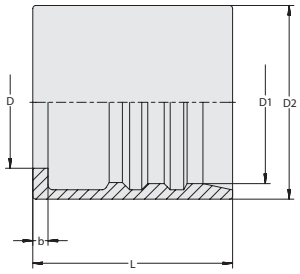
Test Mandrels Pages 185-187

Non-Skive Swage Ferrule for Hose with Textile Insert Series 15330

Suitable for 2TE, 3TE
Standard EN 854

Material Stainless Steel

Maximum working pressures depending on the type of the hose connector and the hose type.





C

Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
05	1/8"	-03	9,8	12,5	17,0	27,3	2,5	1,7	HF-1001-05-W5
			.39	.49	.67	1.07	.10	.07	
05	1/8"	-03	9,8	14,0	18,6	27,3	2,5	2,0	HF-1002-05-W5
			.39	.55	.73	1.07	.10	.08	
06	1/4"	-04	11,6	15,3	19,0	28,0	2,5	2,7	HF-1000-06-W5
			.46	.60	.75	1.10	.10	.11	
08	5/16"	-05	13,0	17,2	22,3	31,0	2,5	3,3	HF-1005-08-W5
			.51	.68	.88	1.22	.10	.13	
10	3/8"	-06	14,2	19,2	24,0	33,0	2,5	3,7	HF-1005-10-W5
			.56	.76	.94	1.30	.10	.15	
12	1/2"	-08	17,8	23,0	28,0	36,0	2,5	5,0	HF-1005-12-W5
			.70	.91	1.10	1.42	.10	.20	
16	5/8"	-10	21,8	26,9	33,0	38,0	2,5	7,8	HF-1005-16-W5
			.86	1.06	1.30	1.50	.10	.31	
19	3/4"	-12	24,6	29,9	36,0	44,0	3,0	9,8	HF-1005-19-W5
			.97	1.18	1.42	1.73	.12	.39	
25	1"	-16	30,8	37,2	43,0	52,0	3,7	15,6	HF-1005-25-W5
			1.21	1.46	1.69	2.05	.15	.61	
31	1 1/4"	-20	37,7	43,5	49,0	60,0	4,0	16,7	HF-1005-31-W5
			1.48	1.71	1.93	2.36	.16	.66	

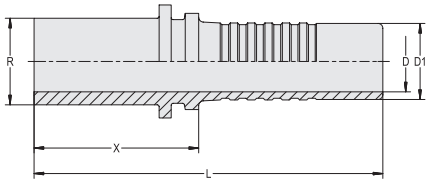
Related Products and Accessories



Test Mandrels Pages 185-187

Straight Insert with Standpipe
Type BEL (Light Series)





Connection Type Standpipe
Sealing Type 24° Cutting Ring
Standard ISO 8434-1, DIN 3861

Material Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)				Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	R (mm/in)	Dash	D	D1	X	L	per 100	
06	1/4"	-04	08	-04	3,9	6,7	29,5	59,5	1,6	HCS-06-BE-08L-M-W5
			.31		.15	.26	1.16	2.34	.06	
06	1/4"	-04	06	-03	3,9	6,7	29,5	59,5	1,3	HCS-06-BE-06L-M-W5
			.24		.15	.26	1.16	2.34	.05	
08	5/16"	-05	10	-05	5,4	8,0	30,5	60,5	2,1	HCS-08-BE-10L-M-W5
			.39		.21	.31	1.20	2.38	.08	
08	5/16"	-05	08	-04	5,4	8,0	29,5	59,5	1,6	HCS-08-BE-08L-M-W5
			.31		.21	.31	1.16	2.34	.06	
10	3/8"	-06	12	-06	6,5	9,6	30,5	64,0	3,1	HCS-10-BE-12L-M-W5
			.47		.26	.38	1.20	2.52	.12	
10	3/8"	-06	10	-05	6,5	9,6	30,5	64,0	2,5	HCS-10-BE-10L-M-W5
			.39		.26	.38	1.20	2.52	.10	
10	3/8"	-06	15	-08	6,5	9,6	30,5	64,0	4,3	HCS-10-BE-15L-M-W5
			.59		.26	.38	1.20	2.52	.17	
12	1/2"	-08	15	-08	9,5	12,8	33,5	69,0	4,7	HCS-12-BE-15L-M-W5
			.59		.37	.50	1.32	2.72	.19	
12	1/2"	-08	12	-06	9,5	12,8	33,0	68,5	4,1	HCS-12-BE-12L-M-W5
			.47		.37	.50	1.30	2.70	.16	
16	5/8"	-10	18	-10	12,6	16,0	34,0	72,5	6,2	HCS-16-BE-18L-M-W5
			.71		.50	.63	1.34	2.85	.24	
19	3/4"	-12	22	-12	14,8	19,1	36,5	82,5	10,3	HCS-19-BE-22L-M-W5
			.87		.58	.75	1.44	3.25	.41	
25	1"	-16	28	-16	20,0	25,9	39,5	94,5	19,0	HCS-25-BE-28L-M-W5
			1.10		.79	1.02	1.56	3.72	.75	
31	1 1/4"	-20	35	-20	26,0	32,5	46,5	106,5	30,7	HCS-31-BE-35L-M-W5
			1.38		1.02	1.28	1.83	4.19	1.21	
38	1 1/2"	-24	42	-24	31,0	38,9	48,5	116,0	47,9	HCS-38-BE-42L-M-W5
			1.65		1.22	1.53	1.91	4.57	1.89	

Related Products and Accessories

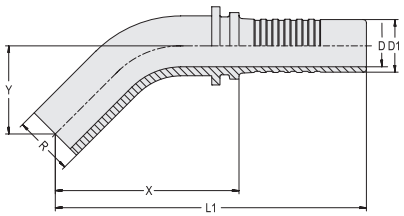


Swage Ferrules Pages 92-95

45° Elbow Insert with Standpipe
Type BEL 45° (Light Series)

Connection Type Standpipe
Sealing Type 24° Cutting Ring
Standard ISO 8434-1, DIN 3861

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	R (mm/in)	Dash	D	D1	X	L	Y	per 100	
06	1/4"	-04	8	-04	3,9	6,7	43,5	73,5	19,0	1,8	HCS-06-BE-08L-045-M-W5
			.31		.15	.26	1.71	2.89	.75	3.97	
08	5/16"	-05	10	-05	5,4	8,0	52,5	82,5	23,0	3,4	HCS-08-BE-10L-045-M-W5
			.39		.21	.31	2.07	3.25	.91	7.50	
10	3/8"	-06	12	-06	6,5	9,8	58,5	92,0	25,0	4,6	HCS-10-BE-12L-045-M-W5
			.47		.26	.39	2.30	3.62	.98	10.14	
12	1/2"	-08	15	-08	9,5	12,8	68,5	104,0	27,0	7,1	HCS-12-BE-15L-045-M-W5
			.59		.37	.50	2.70	4.09	1.06	15.66	
16	5/8"	-10	18	-10	12,6	16,0	69,5	108,0	41,0	9,1	HCS-16-BE-18L-045-M-W5
			.71		.50	.63	2.74	4.25	1.61	20.07	
19	3/4"	-12	22	-12	14,8	19,1	73,0	119,0	29,0	18,9	HCS-19-BE-22L-045-M-W5
			.87		.58	.75	2.87	4.69	1.14	41.67	
25	1"	-16	28	-16	20,0	25,9	83,0	138,0	34,0	36,3	HCS-25-BE-28L-045-M-W5
			1.10		.79	1.02	3.27	5.43	1.34	80.04	

Dimension Y ± 2,5 mm / .10 in

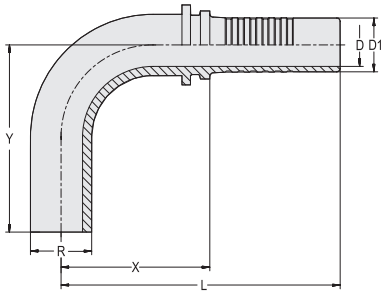
Related Products and Accessories



Swage Ferrules Pages 92-95

90° Elbow Insert with Standpipe
Type BEL 90° (Light Series)





Connection Type	Standpipe
Sealing Type	24° Cutting Ring
Standard	ISO 8434-1, DIN 3861
Material	Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	R (mm/in)	Dash	D	D1	X	L	Y	per 100	
06	1/4"	-04	8	-04	3,9	6,7	27,2	56,5	31,0	2,0	HCS-06-BE-08L-090-M-W5
			.31		.15	.26	1.07	2.22	1.22	4.41	
08	5/16"	-05	10	-05	5,4	8,0	31,5	61,5	37,5	31,0	HCS-08-BE-10L-090-M-W5
			.39		.21	.31	1.24	2.42	1.48	68.36	
10	3/8"	-06	12	-06	6,5	9,8	33,0	66,5	43,5	4,6	HCS-10-BE-12L-090-M-W5
			.47		.26	.39	1.30	2.62	1.71	10.14	
12	1/2"	-08	15	-08	9,5	12,8	41,0	76,5	51,0	9,5	HCS-12-BE-15L-090-M-W5
			.59		.37	.50	1.61	3.01	2.01	20.95	
16	5/8"	-10	18	-10	12,6	16,0	44,0	82,5	55,0	11,0	HCS-16-BE-18L-090-M-W5
			.71		.50	.63	1.73	3.25	2.17	24.26	
19	3/4"	-12	22	-12	14,8	19,1	63,0	109,0	61,0	23,0	HCS-19-BE-22L-090-M-W5
			.87		.58	.75	2.48	4.29	2.40	50.72	
25	1"	-16	28	-16	20,0	25,9	74,0	129,0	72,0	40,7	HCS-25-BE-28L-090-M-W5
			1.10		.79	1.02	2.91	5.08	2.83	89.74	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

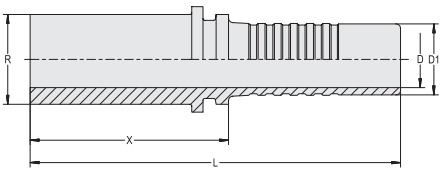


Swage Ferrules Pages 92-95

Straight Insert with Standpipe
Type BES (Heavy Series)

Connection Type Standpipe
Sealing Type 24° Cutting Ring
Standard ISO 8434-1, DIN 3861

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)				Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	R (mm/in)	Dash	D	D1	X	L	per 100	
06	1/4"	-04	10	-04	3,9	6,7	33,5	63,5	2,1	HCS-06-BE-10S-M-W5
			.39		.15	.26	1.32	2.50	4.63	
06	1/4"	-04	08	-03	3,9	6,7	33,5	63,5	1,7	HCS-06-BE-08S-M-W5
			.31		.15	.26	1.32	2.50	3.75	
06	1/4"	-04	12	-05	3,9	6,7	33,5	63,5	2,8	HCS-06-BE-12S-M-W5
			.47		.15	.26	1.32	2.50	6.17	
08	5/16"	-05	12	-05	5,4	8,0	33,5	63,5	2,6	HCS-08-BE-12S-M-W5
			.47		.21	.31	1.32	2.50	5.73	
10	3/8"	-06	14	-06	6,5	9,6	36,5	70,0	4,1	HCS-10-BE-14S-M-W5
			.55		.26	.38	1.44	2.76	9.04	
10	3/8"	-06	12	-05	6,5	9,6	33,5	67,0	2,9	HCS-10-BE-12S-M-W5
			.47		.26	.38	1.32	2.64	6.39	
10	3/8"	-06	16	-08	6,5	9,6	37,5	71,0	5,1	HCS-10-BE-16S-M-W5
			.63		.26	.38	1.48	2.80	11.25	
12	1/2"	-08	16	-08	9,5	12,8	38,0	73,5	5,7	HCS-12-BE-16S-M-W5
			.63		.37	.50	1.50	2.89	12.57	
16	5/8"	-10	20	-10	12,6	16,0	44,0	82,5	9,0	HCS-16-BE-20S-M-W5
			.79		.50	.63	1.73	3.25	19.85	
16	5/8"	-10	16	-08	12,6	16,0	38,0	76,5	6,7	HCS-16-BE-16S-M-W5
			.63		.50	.63	1.50	3.01	14.77	
19	3/4"	-12	25	-12	14,8	19,1	48,5	94,5	15,9	HCS-19-BE-25S-M-W5
			.98		.58	.75	1.91	3.72	35.06	
19	3/4"	-12	20	-10	14,8	19,1	44,5	90,5	9,8	HCS-19-BE-20S-M-W5
			.79		.58	.75	1.75	3.56	21.61	
19	3/4"	-12	30	-16	14,8	19,1	52,5	98,5	20,3	HCS-19-BE-30S-M-W5
			1.18		.58	.75	2.07	3.88	44.76	
25	1"	-16	30	-16	20,0	25,9	53,5	108,5	25,6	HCS-25-BE-30S-M-W5
			1.18		.79	1.02	2.11	4.27	56.45	
31	1 1/4"	-20	38	-20	26,0	32,5	58,5	118,5	41,5	HCS-31-BE-38S-M-W5
			1.50		1.02	1.28	2.30	4.67	91.51	

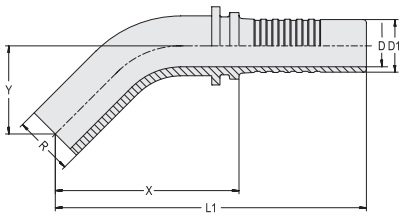
Related Products and Accessories



Swage Ferrules Pages 92-95

45° Elbow Insert with Standpipe
Type BES 45° (Heavy Series)





Connection Type	Standpipe
Sealing Type	24° Cutting Ring
Standard	ISO 8434-1, DIN 3861
Material	Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	R (mm/in)	Dash	D	D1	X	L	Y	per 100	
06	1/4"	-04	10	-04	3,9	6,7	52,0	82,0	23,5	3,2	HCS-06-BE-10S-045-M-W5
			.39		.15	.26	2.05	3.23	.93	7.06	
08	5/16"	-05	12	-06	5,4	8,0	62,0	92,0	25,0	4,8	HCS-08-BE-12S-045-M-W5
			.47		.21	.31	2.44	3.62	.98	10.58	
10	3/8"	-06	14	-06	6,5	9,8	53,0	86,5	27,0	5,7	HCS-10-BE-14S-045-M-W5
			.55		.26	.39	2.09	3.41	1.06	12.57	
12	1/2"	-08	16	-08	9,5	12,8	67,5	103,0	30,0	9,6	HCS-12-BE-16S-045-M-W5
			.63		.37	.50	2.66	4.06	1.18	21.17	
16	5/8"	-10	20	-10	12,6	16,0	72,0	111,0	34,0	14,6	HCS-16-BE-20S-045-M-W5
			.79		.50	.63	2.83	4.37	1.34	32.19	
19	3/4"	-12	25	-12	14,8	19,1	87,0	133,0	39,0	24,6	HCS-19-BE-25S-045-M-W5
			.98		.58	.75	3.43	5.24	1.54	54.24	
25	1"	-16	30	-16	20,0	25,9	99,0	154,0	44,0	40,2	HCS-25-BE-30S-045-M-W5
			1.18		.79	1.02	3.90	6.06	1.73	88.64	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

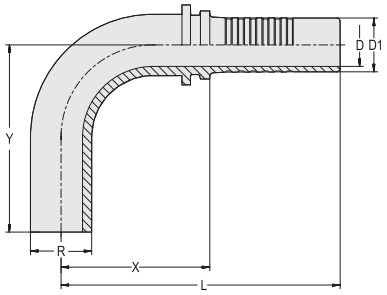


Swage Ferrules Pages 92-95

90° Elbow Insert with Standpipe
Type BES 90° (Heavy Series)

Connection Type Standpipe
Sealing Type 24° Cutting Ring
Standard ISO 8434-1, DIN 3861

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	R (mm/in)	Dash	D	D1	X	L	Y	per 100	
06	1/4"	-04	10	-04	3,9	6,7	30,0	60,0	38,0	3,0	HCS-06-BE-10S-090-M-W5
			.39		.15	.26	1.18	2.36	1.50	6.62	
08	5/16"	-05	12	-06	5,4	8,0	38,0	68,0	41,5	4,8	HCS-08-BE-12S-090-M-W5
			.47		.21	.31	1.50	2.68	1.63	10.58	
10	3/8"	-06	14	-06	6,5	9,8	38,0	77,5	41,5	7,0	HCS-10-BE-14S-090-M-W5
			.55		.26	.39	1.50	3.05	1.63	15.44	
12	1/2"	-08	16	-08	9,5	12,8	60,5	94,0	58,5	8,2	HCS-12-BE-16S-090-M-W5
			.63		.37	.50	2.38	3.70	2.30	18.08	
16	5/8"	-10	20	-10	12,6	16,0	56,5	95,0	66,0	16,7	HCS-16-BE-20S-090-M-W5
			.79		.50	.63	2.22	3.74	2.60	36.82	
19	3/4"	-12	25	-12	14,8	19,1	69,5	115,0	77,0	24,6	HCS-19-BE-25S-090-M-W5
			.98		.58	.75	2.74	4.53	3.03	54.24	
25	1"	-16	30	-16	20,0	25,9	81,0	136,0	89,0	40,2	HCS-25-BE-30S-090-M-W5
			1.18		.79	1.02	3.19	5.35	3.50	88.64	

Abmessung Y ± 2,5 mm / .10 in

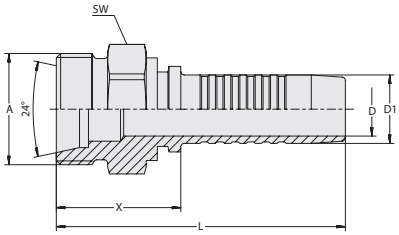
Related Products and Accessories



Swage Ferrules Pages 92-95

Straight Insert with Male Metric Thread and 24° Conical Bore
Type CEL (Light Series)





Connection Type	Male Metric Thread
Sealing Type	24° Conical Bore (Shape W acc. to DIN 3861)
Standard	ISO 8434-1
Material	Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4''	-04	M14x1,5	-04	3,9	6,7	23,5	53,5	14	2,4	HCS-06-CE-08L-M-W5
					.15	.26	.93	2.11	.55	5.29	
06	1/4''	-04	M12x1,5	-03	3,9	6,7	23,5	53,5	14	2,3	HCS-06-CE-06L-M-W5
					.15	.26	.93	2.11	.55	4.96	
06	1/4''	-04	M12x1,5	-03	3,9	6,7	23,5	53,5	14	3,2	HCS-06-CE-06L-M-W5
					.15	.26	.93	2.11	.55	6.95	
06	1/4''	-04	M18x1,5	-06	3,9	6,7	25,5	55,5	19	3,5	HCS-06-CE-12L-M-W5
					.15	.26	1.00	2.19	.75	7.61	
08	5/16''	-05	M16x1,5	-05	5,4	8,0	24,5	54,5	17	3,1	HCS-08-CE-10L-M-W5
					.21	.31	.96	2.15	.67	6.84	
08	5/16''	-05	M18x1,5	-06	5,4	8,0	25,5	55,5	19	3,6	HCS-08-CE-12L-M-W5
					.21	.31	1.00	2.19	.75	7.87	
10	3/8''	-06	M18x1,5	-06	6,5	9,6	25,5	59,0	19	4,1	HCS-10-CE-12L-M-W5
					.26	.38	1.00	2.32	.75	9.04	
10	3/8''	-06	M16x1,5	-05	6,5	9,6	24,5	58,0	17	3,7	HCS-10-CE-10L-M-W5
					.26	.38	.96	2.28	.67	8.05	
10	3/8''	-06	M22x1,5	-08	6,5	9,6	27,5	61,0	22	5,9	HCS-10-CE-15L-M-W5
					.26	.38	1.08	2.40	.87	12.90	
12	1/2''	-08	M22x1,5	-08	9,5	12,8	28,5	63,5	22	6,7	HCS-12-CE-15L-M-W5
					.37	.50	1.12	2.50	.87	14.66	
12	1/2''	-08	M18x1,5	-06	9,5	12,8	26,5	62,0	19	5,0	HCS-12-CE-12L-M-W5
					.37	.50	1.04	2.44	.75	11.03	
12	1/2''	-08	M26x1,5	-10	9,5	12,8	29,5	65,0	27	9,2	HCS-12-CE-18L-M-W5
					.37	.50	1.16	2.56	1.06	20.18	
16	5/8''	-10	M26x1,5	-10	12,6	16,0	29,5	67,5	27	9,6	HCS-16-CE-18L-M-W5
					.50	.63	1.16	2.66	1.06	21.17	
19	3/4''	-12	M30x2	-12	14,8	19,1	33,0	78,5	30	13,5	HCS-19-CE-22L-M-W5
					.58	.75	1.30	3.09	1.18	29.77	
25	1''	-16	M36x2	-16	20,0	25,9	34,5	89,5	36	23,7	HCS-25-CE-28L-M-W5
					.79	1.02	1.36	3.52	1.42	52.26	
31	1 1/4''	-20	M45x2	-20	26,0	32,5	39,5	99,5	46	39,9	HCS-31-CE-35L-M-W5
					1.02	1.28	1.56	3.92	1.81	87.98	
38	1 1/2''	-24	M52x2	-24	31,0	38,9	42,5	110,0	55	60,1	HCS-38-CE-42L-M-W5
					1.22	1.53	1.67	4.33	2.17	132.52	

Related Products and Accessories


Swage Ferrules Pages 92-95

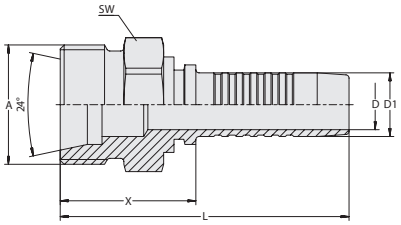

ECOVOS Version Page 22


MULTIVOS Version Page 142

Straight Insert with Male Metric Thread and 24° Conical Bore
Type CES (Heavy Series)

Connection Type Male Metric Thread
Sealing Type 24° Conical Bore (Shape W acc. to DIN 3861)
Standard ISO 8434-1

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4''	-04	M18x1,5	-04	3,9	6,7	26,5	56,5	19	4,1	HCS-06-CE-10S-M-W5
					.15	.26	1.04	2.22	.75	9.04	
06	1/4''	-04	M16x1,5	-03	3,9	6,7	25,5	55,5	17	3,4	HCS-06-CE-08S-M-W5
					.15	.26	1.00	2.19	.67	7.50	
08	5/16''	-05	M20x1,5	-05	5,4	8,0	27,5	57,5	22	5,4	HCS-08-CE-12S-M-W5
					.21	.31	1.08	2.26	.87	11.91	
08	5/16''	-05	M18x1,5	-04	5,4	8,0	26,5	56,5	22	4,3	HCS-08-CE-10S-M-W5
					.21	.31	1.04	2.22	.87	9.37	
10	3/8''	-06	M22x1,5	-06	6,5	9,6	29,5	63,0	22	6,5	HCS-10-CE-14S-M-W5
					.26	.38	1.16	2.48	.87	14.33	
10	3/8''	-06	M20x1,5	-05	6,5	9,6	27,5	61,0	22	5,9	HCS-10-CE-12S-M-W5
					.26	.38	1.08	2.40	.87	13.01	
10	3/8''	-06	M24x1,5	-08	6,5	9,6	29,5	63,0	24	7,2	HCS-10-CE-16S-M-W5
					.26	.38	1.16	2.48	.94	15.88	
12	1/2''	-08	M24x1,5	-08	9,5	12,8	30,5	65,5	24	8,1	HCS-12-CE-16S-M-W5
					.37	.50	1.20	2.58	.94	17.75	
12	1/2''	-08	M30x2	-10	9,5	12,8	34,5	70,0	30	13,4	HCS-12-CE-20S-M-W5
					.37	.50	1.36	2.76	1.18	29.44	
16	5/8''	-10	M30x2	-10	12,6	16,0	34,5	72,5	30	13,2	HCS-16-CE-20S-M-W5
					.50	.63	1.36	2.85	1.18	29.11	
19	3/4''	-12	M36x2	-12	14,8	19,1	38,0	83,5	36	20,9	HCS-19-CE-25S-M-W5
					.58	.75	1.50	3.29	1.42	46.08	
19	3/4''	-12	M30x2	-10	14,8	19,1	35,0	80,5	30	15,3	HCS-19-CE-20S-M-W5
					.58	.75	1.38	3.17	1.18	33.63	
25	1''	-16	M42x2	-16	20,0	25,9	42,5	97,5	46	37,50	HCS-25-CE-30S-M-W5
					.79	1.02	1.67	3.84	1.81	82.69	
25	1''	-16	M36x2	-12	20,0	25,9	38,5	93,5	36	26,30	HCS-25-CE-25S-M-W5
					.79	1.02	1.52	3.68	1.42	57.99	
25	1''	-16	M52x2	-20	20,0	25,9	46,5	101,5	55	57,15	HCS-25-CE-38S-M-W5
					.79	1.02	1.83	4.00	2.17	126.02	

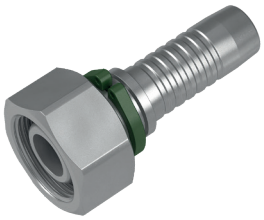
Related Products and Accessories

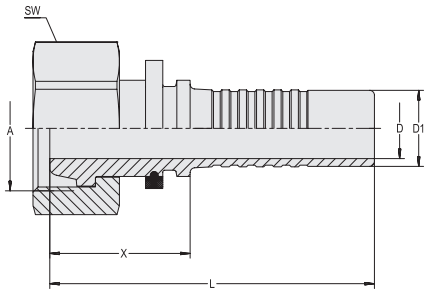
 **Swage Ferrules** Pages 92-95

 **ECOVOS Version** Page 23

 **MULTIVOS Version** Page 143

Straight Insert with Female Metric Nut Thread and 24° Taper
Type DKL (Light Series)





Connection Type	Female Metric Nut Thread
Sealing Type	24° Taper
Standard	ISO 8434-1
Material	Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4''	-04	M14x1,5	-04	3,9	6,7	25,0	55,0	17	3,5	HCS-06-DK-08L-S-M-W5
					.15	.26	.98	2.17	.67	7.61	
06	1/4''	-04	M12x1,5	-03	3,9	6,7	19,5	49,5	17	2,4	HCS-06-DK-06L-W-M-W5
					.15	.26	.77	1.95	.67	5.18	
06	1/4''	-04	M16x1,5	-05	3,9	6,7	26,0	56,0	19	4,2	HCS-06-DK-10L-S-M-W5
					.15	.26	1.02	2.20	.75	9.26	
08	5/16''	-05	M16x1,5	-05	5,4	8,0	26,0	56,0	19	4,4	HCS-08-DK-10L-S-M-W5
					.21	.31	1.02	2.20	.75	9.59	
08	5/16''	-05	M14x1,5	-04	5,4	8,0	20,0	50,0	17	3,3	HCS-08-DK-08L-W-M-W5
					.21	.31	.79	1.97	.67	7.17	
10	3/8''	-06	M18x1,5	-06	6,5	9,6	26,5	60,0	22	6,2	HCS-10-DK-12L-S-M-W5
					.26	.38	1.04	2.36	.87	13.67	
10	3/8''	-06	M16x1,5	-05	6,5	9,6	20,0	53,5	19	4,4	HCS-10-DK-10L-W-M-W5
					.26	.38	.79	2.11	.75	9.70	
12	1/2''	-08	M22x1,5	-08	9,5	12,8	26,5	62,0	27	9,4	HCS-12-DK-15L-S-M-W5
					.37	.50	1.04	2.44	1.06	20.62	
12	1/2''	-08	M18x1,5	-06	9,5	12,8	22,0	57,5	22	6,6	HCS-12-DK-12L-W-M-W5
					.37	.50	.87	2.26	.87	14.44	
16	5/8''	-10	M26x1,5	-10	12,6	16,0	29,0	67,5	32	13,5	HCS-16-DK-18L-S-M-W5
					.50	.63	1.14	2.66	1.26	29.66	
19	3/4''	-12	M30x2	-12	14,8	19,1	33,0	78,5	36	19,8	HCS-19-DK-22L-S-M-W5
					.58	.75	1.30	3.09	1.42	43.55	
25	1''	-16	M36x2	-16	20,0	25,9	34,5	89,5	41	29,7	HCS-25-DK-28L-S-M-W5
					.79	1.02	1.36	3.52	1.61	65.49	
31	1 1/4''	-20	M45x2	-20	26,0	32,5	41,0	100,5	50	47,9	HCS-31-DK-35L-S-M-W5
					1.02	1.28	1.61	3.96	1.97	105.51	
38	1 1/2''	-24	M52x2	-24	31,0	38,9	31,0	98,5	60	66,6	HCS-38-DK-42L-S-M-W5
					1.22	1.53	1.22	3.88	2.36	146.85	

Related Products and Accessories

 **Swage Ferrules** Pages 92-95

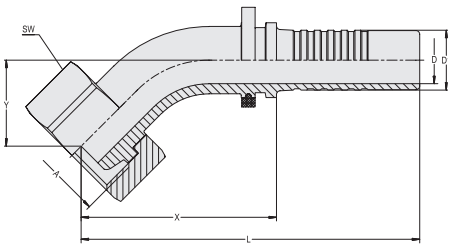
 **45° Version** Page 105

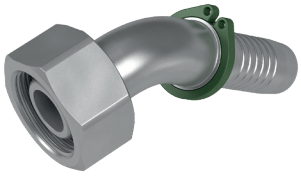
 **90° Version** Page 106

45° Elbow Insert with Female Metric Nut Thread and 24° Taper
Type DKL 45° (Light Series)

Connection Type Female Metric Nut Thread
Sealing Type 24° Taper
Standard ISO 8434-1

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	M14x1,5	-04	3,9	6,7	36,0	66,0	15,0	17	3,8	HCS-06-DK-08L-045-S-M-W5
					.15	.26	1.42	2.60	.59	.67	8.38	
08	5/16"	-05	M16x1,5	-05	5,4	8,0	37,5	67,5	17,0	19	5,0	HCS-08-DK-10L-045-S-M-W5
					.21	.31	1.48	2.66	.67	.75	11.03	
10	3/8"	-06	M18x1,5	-06	6,5	9,6	40,5	74,0	17,5	22	7,4	HCS-10-DK-12L-045-S-M-W5
					.26	.38	1.59	2.91	.69	.87	16.21	
12	1/2"	-08	M22x1,5	-08	9,5	12,8	45,0	80,5	20,0	27	11,4	HCS-12-DK-15L-045-S-M-W5
					.37	.50	1.77	3.17	.79	1.06	25.03	
16	5/8"	-10	M26x1,5	-10	12,6	16,0	52,0	90,5	23,0	32	16,5	HCS-16-DK-18L-045-S-M-W5
					.50	.63	2.05	3.56	.91	1.26	36.38	
19	3/4"	-12	M30x2	-12	14,8	19,1	68,0	113,5	26,0	36	26,7	HCS-19-DK-22L-045-S-M-W5
					.58	.75	2.68	4.47	1.02	1.42	58.87	

Dimension Y ± 2,5 mm / .10 in

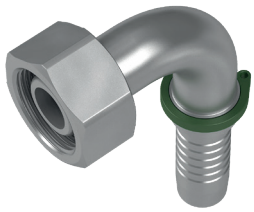
Related Products and Accessories

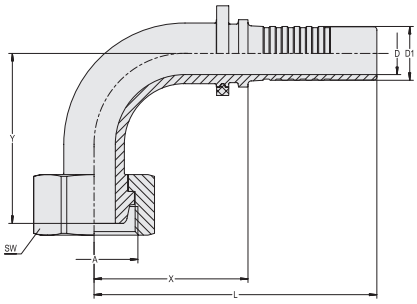
 **Swage Ferrules** Pages 92-95

 **Straight Version** Page 104

 **90° Version** Page 106

90° Elbow Insert with Female Metric Nut Thread and 24° Taper
Type DKL 90° (Light Series)





Connection Type Female Metric Nut Thread
Sealing Type 24° Taper
Standard ISO 8434-1

Material Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	M12x1,5	-03	3,9	6,7	25,0	55,0	32,5	14	3,5	HCS-06-DK-06L-090-W-M-W5
					.15	.26	.98	2.17	1.28	.55	7.61	
06	1/4"	-04	M14x1,5	-04	3,9	6,7	29,0	59,0	29,0	17	4,1	HCS-06-DK-08L-090-S-M-W5
					.15	.26	1.14	2.32	1.14	.67	8.93	
08	5/16"	-05	M16x1,5	-05	5,4	8,0	31,5	61,5	29,0	19	5,5	HCS-08-DK-10L-090-S-M-W5
					.21	.31	1.24	2.42	1.14	.75	12.13	
10	3/8"	-06	M18x1,5	-06	6,5	9,6	36,5	70,0	36,0	22	8,5	HCS-10-DK-12L-090-S-M-W5
					.26	.38	1.44	2.76	1.42	.87	18.74	
12	1/2	-08	M22x1,5	-08	9,5	12,8	41,0	76,5	41,0	27	13,1	HCS-12-DK-15L-090-S-M-W5
					.37	.50	1.61	3.01	1.61	1.06	28.89	
16	5/8"	-10	M26x1,5	-10	12,6	16,0	45,5	84,0	50,5	32	19,0	HCS-16-DK-18L-090-S-M-W5
					.50	.63	1.79	3.31	1.99	1.26	41.78	
19	3/4"	-12	M30x2	-12	14,8	19,1	57,0	103,0	58,0	36	30,8	HCS-19-DK-22L-090-S-M-W5
					.58	.75	2.24	4.06	2.28	1.42	67.80	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 92-95

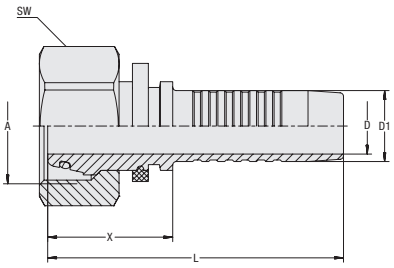
 **Straight Version** Page 104

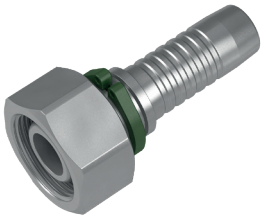
 **45° Version** Page 105

Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOL (Light Series)

Connection Type Female Metric Nut Thread
Sealing Type 24° Taper / O-Ring
Standard ISO 8434-1

Material Stainless Steel
Sealing Material FKM (Viton®)





C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4''	-04	M14x1,5	-04	3,9	6,7	27,0	57,0	17	3,5	HCS-06-DKO-08L-S-OR-V-M-W5
					.15	.26	1.06	2.24	.67	7.72	
06	1/4''	-04	M12x1,5	-03	3,9	6,7	21,0	51,0	14	2,35	HCS-06-DKO-06L-W-OR-V-M-W5
					.15	.26	.83	2.01	.55	5.18	
06	1/4''	-04	M16x1,5	-05	3,9	6,7	28,5	58,5	19	4,3	HCS-06-DKO-10L-S-OR-V-M-W5
					.15	.26	1.12	2.30	.75	9.48	
06	1/4''	-04	M18x1,5	-06	3,9	6,7	29,0	59,0	22	5,5	HCS-06-DKO-12L-S-OR-V-M-W5
					.15	.26	1.14	2.32	.87	12.13	
08	5/16''	-05	M16x1,5	-05	5,4	8,0	28,5	58,5	19	4,4	HCS-08-DKO-10L-S-OR-V-M-W5
					.21	.31	1.12	2.30	.75	9.70	
08	5/16''	-05	M14x1,5	-04	5,4	8,0	22,0	52,0	17	3,3	HCS-08-DKO-08L-W-OR-V-M-W5
					.21	.31	.87	2.05	.67	7.28	
08	5/16''	-05	M18x1,5	-06	5,4	8,0	30,0	60,0	22	5,8	HCS-08-DKO-12L-S-OR-V-M-W5
					.21	.31	1.18	2.36	.87	12.68	
10	3/8''	-06	M18x1,5	-06	6,5	9,8	29,0	62,5	22	6,3	HCS-10-DKO-12L-S-OR-V-M-W5
					.26	.39	1.14	2.46	.87	13.89	
10	3/8''	-06	M16x1,5	-05	6,5	9,8	22,5	56,0	19	4,6	HCS-10-DKO-10L-W-OR-V-M-W5
					.26	.39	.89	2.20	.75	10.14	
10	3/8''	-06	M22x1,5	-08	6,5	9,8	30,5	64,0	27	8,9	HCS-10-DKO-15L-S-OR-V-M-W5
					.26	.39	1.20	2.52	1.06	19.51	
12	1/2''	-08	M22x1,5	-08	9,5	12,8	28,5	64,0	27	9,4	HCS-12-DKO-15L-S-OR-V-M-W5
					.37	.50	1.12	2.52	1.06	20.62	
12	1/2''	-08	M18x1,5	-06	9,5	12,8	24,0	59,5	22	6,6	HCS-12-DKO-12L-W-OR-V-M-W5
					.37	.50	.94	2.34	.87	14.55	
16	5/8''	-10	M26x1,5	-10	12,6	16,0	31,5	70,0	32	13,6	HCS-12-DKO-18L-S-OR-V-M-W5
					.50	.63	1.24	2.76	1.26	29.88	
19	3/4''	-12	M30x2	-12	14,8	19,1	33,0	78,5	36	18,0	HCS-19-DKO-22L-S-OR-V-M-W5
					.58	.75	1.30	3.09	1.42	39.58	
19	3/4''	-12	M26x1,5	-10	14,8	19,1	25,5	71,5	32	14,6	HCS-19-DKO-18L-W-OR-V-M-W5
					.58	.75	1.00	2.81	1.26	32.19	
19	3/4''	-12	M36x2	-16	14,8	19,1	34,0	80,0	41	26,8	HCS-19-DKO-28L-S-OR-V-M-W5
					.58	.75	1.34	3.15	1.61	58.98	
25	1''	-16	M36x2	-16	20,0	25,9	36,5	91,5	41	30,4	HCS-25-DKO-28L-S-OR-V-M-W5
					.79	1.02	1.44	3.60	1.61	66.92	
31	1 1/4''	-20	M45x2	-20	26,0	32,5	41,0	100,5	50	45,20	HCS-31-DKO-35L-S-OR-V-M-W5
					1.02	1.28	1.61	3.96	1.97	99.67	
38	1 1/2''	-24	M52x2	-24	31,0	38,9	35,5	103,0	60	68,35	HCS-38-DKO-42L-S-OR-V-M-W5
					1.22	1.53	1.40	4.06	2.36	150.71	

Related Products and Accessories

 **Swage Ferrules** Pages 92-95

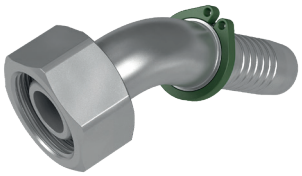
 **45° Version** Page 108

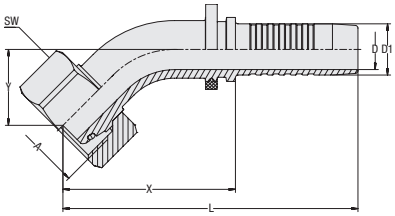
 **90° Version** Page 109

 **ECOVOS Version** Pages 24-25

 **MULTIVOS Version** Page 144

45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring
Type DKOL 45° (Light Series)





Connection Type	Female Metric Nut Thread
Sealing Type	24° Taper / O-Ring
Standard	ISO 8434-1
Material	Stainless Steel
Sealing Material	FKM (Viton®)

C

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	M12x1,5	-03	3,9	6,7	36,5	66,5	18,0	14	3,2	HCS-06-DKO-06L-045-W-OR-V-M-W5
					.15	.26	1.44	2.62	.71	.55	6.95	
06	1/4"	-04	M14x1,5	-04	3,9	6,7	37,0	67,0	17,0	17	3,8	HCS-06-DKO-08L-045-S-OR-V-M-W5
					.15	.26	1.46	2.64	.67	.67	8.38	
06	1/4"	-04	M16x1,5	-05	3,9	6,7	39,0	69,0	19,0	19	5,0	HCS-06-DKO-10L-045-S-OR-V-M-W5
					.15	.26	1.54	2.72	.75	.75	11.03	
08	5/16"	-05	M16x1,5	-05	5,4	8,0	39,0	69,0	19,0	19	5,1	HCS-08-DKO-10L-045-S-OR-V-M-W5
					.21	.31	1.54	2.72	.75	.75	11.25	
08	5/16"	-05	M18x1,5	-06	5,4	8,0	40,0	70,0	18,0	22	6,3	HCS-08-DKO-12L-045-S-OR-V-M-W5
					.21	.31	1.57	2.76	.71	.87	13.89	
10	3/8"	-06	M16x1,5	-05	6,5	9,8	43,5	77,0	19,5	19	6,6	HCS-10-DKO-10L-045-W-OR-V-M-W5
					.26	.39	1.71	3.03	.77	.75	14.44	
10	3/8"	-06	M18x1,5	-06	6,5	9,8	41,5	74,5	17,5	22	7,4	HCS-10-DKO-12L-045-S-OR-V-M-W5
					.26	.39	1.63	2.93	.69	.87	16.21	
10	3/8"	-06	M22x1,5	-08	6,5	9,8	41,5	74,5	17,5	27	9,8	HCS-10-DKO-15L-045-S-OR-V-M-W5
					.26	.39	1.63	2.93	.69	1.06	21.65	
12	1/2"	-08	M22x1,5	-08	9,5	12,8	47,0	82,0	21,5	27	11,3	HCS-12-DKO-15L-045-S-OR-V-M-W5
					.37	.50	1.85	3.23	.85	1.06	24.81	
16	5/8"	-10	M26x1,5	-10	12,6	16,0	54,0	92,0	24,0	32	16,5	HCS-16-DKO-18L-045-S-OR-V-M-W5
					.50	.63	2.13	3.62	.94	1.26	36.38	
19	3/4"	-12	M30x2	-12	14,8	19,1	67,0	113,0	25,5	36	26,4	HCS-19-DKO-22L-045-S-OR-V-M-W5
					.58	.75	2.64	4.45	1.00	1.42	58.21	
25	1"	-16	M36x2	-16	20,0	25,9	80,0	135,0	33,0	41	43,4	HCS-25-DKO-28L-045-S-OR-V-M-W5
					.79	1.02	3.15	5.31	1.30	1.61	95.59	
31	1 1/4"	-20	M45x2	-20	26,0	32,5	99,5	159,5	39,5	50	72,3	HCS-31-DKO-35L-045-S-OR-V-M-W5
					1.02	1.28	3.92	6.28	1.56	1.97	159.31	
38	1 1/2"	-24	M52x2	-24	31,0	38,9	108,5	176,0	41,0	60	103,7	HCS-38-DKO-42L-045-S-OR-V-M-W5
					1.22	1.53	4.27	6.93	1.61	2.36	228.66	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 92-95

 **Straight Version** Page 107

 **ECOVOS Version** Pages 26-27

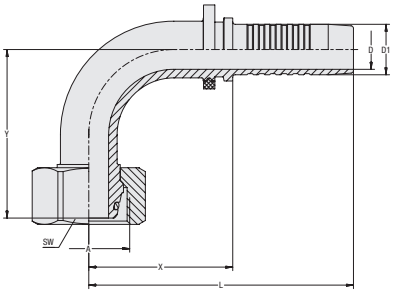
 **90° Version** Page 109

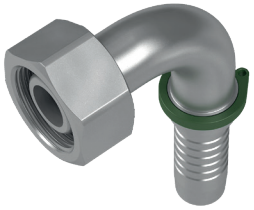
 **MULTIVOS Version** Page 145

90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOL 90° (Light Series)

Connection Type Female Metric Nut Thread
Sealing Type 24° Taper / O-Ring
Standard ISO 8434-1

Material Stainless Steel
Sealing Material FKM (Viton®)





C

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	M12x1,5	-03	3,9	6,7	25,0	55,0	33,0	14	3,4	HCS-06-DKO-06L-090-W-OR-V-M-W5
					.15	.26	.98	2.17	1.30	.55	7.50	
06	1/4"	-04	M14x1,5	-04	3,9	6,7	29,5	59,5	30,0	17	4,1	HCS-06-DKO-08L-090-S-OR-V-M-W5
					.15	.26	1.16	2.34	1.18	.67	9.04	
06	1/4"	-04	M16x1,5	-05	3,9	6,7	31,0	61,0	32,5	19	5,5	HCS-06-DKO-10L-090-S-OR-V-M-W5
					.15	.26	1.22	2.40	1.28	.75	12.13	
06	1/4"	-04	M18x1,5	-06	3,9	6,7	30,5	60,5	34,5	22	6,8	HCS-06-DKO-12L-090-S-OR-V-M-W5
					.15	.26	1.20	2.38	1.36	.87	14.99	
08	5/16"	-05	M16x1,5	-05	5,4	8,0	31,0	61,0	32,5	19	5,5	HCS-08-DKO-10L-090-S-OR-V-M-W5
					.21	.31	1.22	2.40	1.28	.75	12.13	
08	5/16"	-05	M18x1,5	-06	5,4	8,0	31,0	61,0	33,0	22	6,8	HCS-08-DKO-12L-090-S-OR-V-M-W5
					.21	.31	1.22	2.40	1.30	.87	14.99	
10	3/8"	-06	M16x1,5	-05	6,5	9,8	38,0	71,5	39,0	19	7,7	HCS-10-DKO-10L-090-W-OR-V-M-W5
					.26	.39	1.50	2.81	1.54	.75	16.98	
10	3/8"	-06	M18x1,5	-06	6,5	9,8	37,5	71,0	37,5	22	8,6	HCS-10-DKO-12L-090-S-OR-V-M-W5
					.26	.39	1.48	2.80	1.48	.87	18.96	
10	3/8"	-06	M22x1,5	-08	6,5	9,8	39,0	72,5	38,5	27	11,3	HCS-10-DKO-15L-090-S-OR-V-M-W5
					.26	.39	1.54	2.85	1.52	1.06	24.92	
12	1/2"	-08	M18x1,5	-06	9,5	12,8	40,5	76,0	47,5	22	11,4	HCS-12-DKO-12L-090-W-OR-V-M-W5
					.37	.50	1.59	2.99	1.87	.87	25.14	
12	1/2"	-08	M22x1,5	-08	9,5	12,8	40,5	76,0	43,0	27	13,1	HCS-12-DKO-15L-090-S-OR-V-M-W5
					.37	.50	1.59	2.99	1.69	1.06	28.78	
16	5/8"	-10	M26x1,5	-10	12,6	16,0	46,0	84,0	53,5	32	19,1	HCS-16-DKO-18L-090-S-OR-V-M-W5
					.50	.63	1.81	3.31	2.11	1.26	42.12	
19	3/4"	-12	M30x2	-12	14,8	19,1	57,0	103,0	57,0	36	30,4	HCS-19-DKO-22L-090-S-OR-V-M-W5
					.58	.75	2.24	4.06	2.24	1.42	67.03	
25	1"	-16	M36x2	-16	20,0	25,9	72,0	127,0	65,0	41	50,0	HCS-25-DKO-28L-090-S-OR-V-M-W5
					.79	1.02	2.83	5.00	2.56	1.61	110.25	
31	1 1/4"	-20	M45x2	-20	26,0	32,5	90,5	150,5	81,0	50	85,3	HCS-31-DKO-35L-090-S-OR-V-M-W5
					1.02	1.28	3.56	5.93	3.19	1.97	187.98	
38	1 1/2"	-24	M52x2	-24	31,0	38,9	101,0	168,5	88,0	60	121,1	HCS-38-DKO-42L-090-S-OR-V-M-W5
					1.22	1.53	3.98	6.63	3.46	2.36	267.03	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 92-95

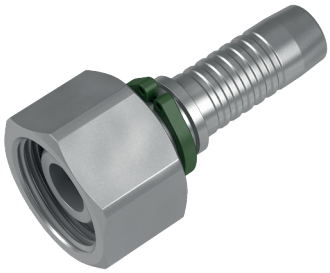
 **Straight Version** Page 107

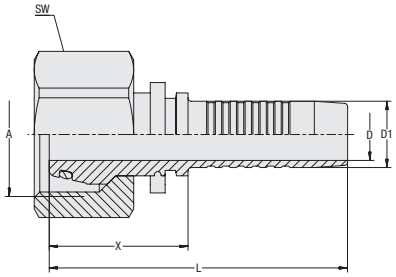
 **45° Version** Page 108

 **ECOVOS Version** Pages 28-29

 **MULTIVOS Version** Page 146

Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring
Type DKOS (Heavy Series)





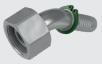
Connection Type	Female Metric Nut Thread
Sealing Type	24° Taper / O-Ring
Standard	ISO 8434-1
Material	Stainless Steel
Sealing Material	FKM (Viton®)

C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4''	-04	M18x1,5	-04	3,9	6,7	28,5	58,5	22	5,6	HCS-06-DKO-10S-S-OR-V-M-W5
					.15	.26	1.12	2.30	.87	12.35	
06	1/4''	-04	M14x1,5	-02	3,9	6,7	26,0	56,0	17	3,6	HCS-06-DKO-06S-S-OR-V-M-W5
					.15	.26	1.02	2.20	.67	7.94	
06	1/4''	-04	M16x1,5	-03	3,9	6,7	27,0	57,0	19	4,1	HCS-06-DKO-08S-W-OR-V-M-W5
					.15	.26	1.06	2.24	.75	9.04	
06	1/4''	-04	M20x1,5	-05	3,9	6,7	29,0	59,0	24	6,5	HCS-06-DKO-12S-S-OR-V-M-W5
					.15	.26	1.14	2.32	.94	14.33	
08	5/16''	-05	M20x1,5	-05	5,4	8,0	30,0	60,0	24	6,8	HCS-08-DKO-12S-S-OR-V-M-W5
					.21	.31	1.18	2.36	.94	14.88	
08	5/16''	-05	M16x1,5	-03	5,4	8,0	23,0	53,0	19	4,3	HCS-08-DKO-08S-W-OR-V-M-W5
					.21	.31	.91	2.09	.75	9.37	
08	5/16''	-05	M18x1,5	-04	5,4	8,0	28,5	58,5	22	5,7	HCS-08-DKO-10S-W-OR-V-M-W5
					.21	.31	1.12	2.30	.87	12.57	
10	3/8''	-06	M22x1,5	-06	6,5	9,6	30,5	64,0	27	9,8	HCS-10-DKO-14S-S-OR-V-M-W5
					.26	.38	1.20	2.52	1.06	21.61	
10	3/8''	-06	M18x1,5	-04	6,5	9,6	25,0	58,5	22	6,2	HCS-10-DKO-10S-W-OR-V-M-W5
					.26	.38	.98	2.30	.87	13.56	
10	3/8''	-06	M20x1,5	-05	6,5	9,8	29,0	62,5	24	7,3	HCS-10-DKO-12S-W-OR-V-M-W5
					.26	.39	1.14	2.46	.94	16.10	
10	3/8''	-06	M24x1,5	-08	6,5	9,6	32,0	65,5	30	11,9	HCS-10-DKO-16S-S-OR-V-M-W5
					.26	.38	1.26	2.58	1.18	26.24	
12	1/2''	-08	M24x1,5	-08	9,5	12,8	32,0	67,5	30	12,7	HCS-12-DKO-16S-S-OR-V-M-W5
					.37	.50	1.26	2.66	1.18	28.00	
12	1/2''	-08	M20x1,5	-05	9,5	12,8	25,0	60,5	24	7,8	HCS-12-DKO-12S-W-OR-V-M-W5
					.37	.50	.98	2.38	.94	17.09	
12	1/2''	-08	M30x2	-10	9,5	12,8	35,5	71,0	36	19,6	HCS-12-DKO-20S-S-OR-V-M-W5
					.37	.50	1.40	2.80	1.42	43.22	
16	5/8''	-10	M30x2	-10	12,6	16,0	35,5	74,0	36	19,5	HCS-16-DKO-20S-S-OR-V-M-W5
					.50	.63	1.40	2.91	1.42	42.89	
16	5/8''	-10	M24x1,5	-08	12,6	16,0	26,5	65,0	30	13,1	HCS-16-DKO-16S-W-OR-V-M-W5
					.50	.63	1.04	2.56	1.18	28.89	
16	5/8''	-10	M36x2	-12	12,6	16,0	36,5	75,0	41	34,6	HCS-16-DKO-25S-S-OR-V-M-W5
					.50	.63	1.44	2.95	1.61	76.29	
19	3/4''	-12	M36x2	-12	14,8	19,1	37,0	83,0	41	35,50	HCS-19-DKO-25S-S-OR-V-M-W5
					.58	.75	1.46	3.27	1.61	78.28	
19	3/4''	-12	M30x2	-10	14,8	19,1	32,0	78,0	36	22,15	HCS-19-DKO-20S-W-OR-V-M-W5
					.58	.75	1.26	3.07	1.42	48.84	
19	3/4''	-12	M42x2	-16	14,8	19,1	41,0	87,0	50	45,55	HCS-19-DKO-30S-S-OR-V-M-W5
					.58	.75	1.61	3.43	1.97	100.44	
25	1''	-16	M42x2	-16	20,0	25,9	42,0	97,0	50	47,25	HCS-25-DKO-30S-S-OR-V-M-W5
					.79	1.02	1.65	3.82	1.97	104.19	
25	1''	-16	M36x2	-12	20,0	25,9	34,0	89,0	41	34,45	HCS-25-DKO-25S-W-OR-V-M-W5
					.79	1.02	1.34	3.50	1.61	75.96	
31	1 1/4''	-20	M52x2	-20	26,0	32,5	47,0	107,0	60	72,35	HCS-31-DKO-38S-S-OR-V-M-W5
					1.02	1.28	1.85	4.21	2.36	159.53	

Related Products and Accessories


Swage Ferrules Pages 92-95


45° Version Page 111


90° Version Page 112


ECOVOS Version Pages 30-31

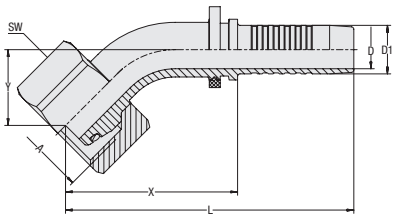

MULTIVOS Version Page 147

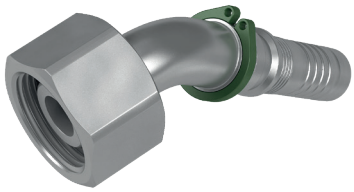

POWERVOS Version Page 180

45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOS 45° (Heavy Series)

Connection Type Female Metric Nut Thread
Sealing Type 24° Taper / O-Ring
Standard ISO 8434-1

Material Stainless Steel
Sealing Material FKM (Viton®)





C

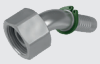
Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	M14x15	-02	3,9	6,7	37,0	67,0	17,0	17	4,0	HCS-06-DKO-06S-045-W-OR-V-M-W5
					.15	.26	1.46	2.64	.67	.67	8.82	
06	1/4"	-04	M16x1,5	-03	3,9	6,7	37,0	67,0	17,0	19	4,4	HCS-06-DKO-08S-045-S-OR-V-M-W5
					.15	.26	1.46	2.64	.67	.75	9.70	
06	1/4"	-04	M18x1,5	-04	3,9	6,7	39,0	69,0	19,0	22	6,3	HCS-06-DKO-10S-045-S-OR-V-M-W5
					.15	.26	1.54	2.72	.75	.87	13.89	
08	5/16"	-05	M20x1,5	-05	5,4	8,0	40,0	70,0	18,0	24	7,4	HCS-08-DKO-12S-045-S-OR-V-M-W5
					.21	.31	1.57	2.76	.71	.94	16.32	
10	3/8"	-06	M20x1,5	-05	6,5	9,8	41,5	74,5	17,5	24	8,4	HCS-10-DKO-12S-045-S-OR-V-M-W5
					.26	.39	1.63	2.93	.69	.94	18.41	
10	3/8"	-06	M22x1,5	-06	6,5	9,8	46,0	79,0	20,0	27	11,2	HCS-10-DKO-14S-045-S-OR-V-M-W5
					.26	.39	1.81	3.11	.79	1.06	24.70	
12	1/2"	-08	M24x1,5	-08	9,5	12,8	50,5	86,0	24,0	30	14,9	HCS-12-DKO-16S-045-S-OR-V-M-W5
					.37	.50	1.99	3.39	.94	1.18	32.85	
16	5/8"	-10	M30x2	-10	12,6	16,0	56,5	95,0	25,0	36	22,3	HCS-16-DKO-20S-045-S-OR-V-M-W5
					.50	.63	2.22	3.74	.98	1.42	49.17	
19	3/4"	-12	M36x2	-12	14,8	19,1	66,0	111,5	29,0	46	41,4	HCS-19-DKO-25S-045-S-OR-V-M-W5
					.58	.75	2.60	4.39	1.14	1.81	91.29	
25	1"	-16	M42x2	-16	20,0	25,9	83,0	138,0	36,5	50	60,1	HCS-25-DKO-30S-045-S-OR-V-M-W5
					.79	1.02	3.27	5.43	1.44	1.97	132.52	
31	1 1/4"	-20	M52x2	-20	26,0	32,5	101,5	161,5	41,5	60	93,8	HCS-31-DKO-38S-045-S-OR-V-M-W5
					1.02	1.28	4.00	6.36	1.63	2.36	206.72	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 92-95

 **Straight Version** Page 110

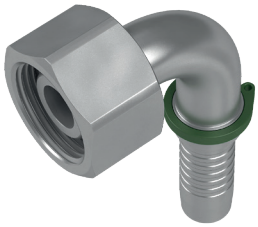
 **ECOVOS Version** Pages 32-33

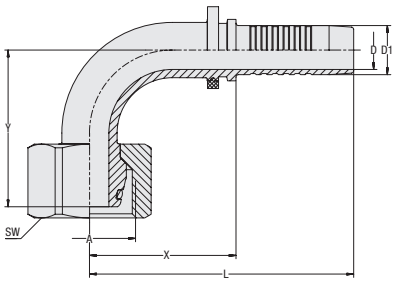
 **90° Version** Page 112

 **MULTIVOS Version** Page 148

C

90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOS 90° (Heavy Series)





Connection Type Female Metric Nut Thread
Sealing Type 24° Taper / O-Ring
Standard ISO 8434-1

Material Stainless Steel
Sealing Material FKM (Viton®)

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	M14x1,5	-02	3,9	6,7	33,5	63,5	29,0	17	4,3	HCS-06-DKO-06S-090-W-OR-V-M-W5
					.15	.26	1.32	2.50	1.14	.67	9.48	
06	1/4"	-04	M16x1,5	-03	3,9	6,7	29,5	59,5	30,0	19	4,7	HCS-06-DKO-08S-090-S-OR-V-M-W5
					.15	.26	1.16	2.34	1.18	.75	10.36	
06	1/4"	-04	M18x1,5	-04	3,9	6,7	31,0	61,0	32,5	22	6,8	HCS-06-DKO-10S-090-S-OR-V-M-W5
					.15	.26	1.22	2.40	1.28	.87	14.99	
06	1/4"	-04	M20x1,5	-05	3,9	6,7	30,5	60,5	34,5	24	7,8	HCS-06-DKO-12S-090-S-OR-V-M-W5
					.15	.26	1.20	2.38	1.36	.94	17.09	
08	5/16"	-05	M20x1,5	-05	5,4	8,0	31,0	61,0	33,0	24	7,9	HCS-08-DKO-12S-090-S-OR-V-M-W5
					.21	.31	1.22	2.40	1.30	.94	17.42	
10	3/8"	-06	M20x1,5	-05	6,5	9,8	37,5	71,0	37,5	24	9,6	HCS-10-DKO-12S-090-S-OR-V-M-W5
					.26	.39	1.48	2.80	1.48	.94	21.17	
10	3/8"	-06	M22x1,5	-06	6,5	9,8	38,5	72,0	40,0	27	12,4	HCS-10-DKO-14S-090-S-OR-V-M-W5
					.26	.39	1.52	2.83	1.57	1.06	27.23	
12	1/2"	-08	M24x1,5	-08	9,5	12,8	40,0	75,5	47,0	30	16,4	HCS-12-DKO-16S-090-S-OR-V-M-W5
					.37	.50	1.57	2.97	1.85	1.18	36.16	
12	1/2"	-08	M30x2	-10	9,5	12,8	40,0	75,5	48,5	30	22,8	HCS-12-DKO-20S-090-S-OR-V-M-W5
					.37	.50	1.57	2.97	1.91	1.18	50.16	
16	5/8"	-10	M30x2	-10	12,6	16,0	48,0	86,0	53,0	36	24,5	HCS-16-DKO-20S-090-S-OR-V-M-W5
					.50	.63	1.89	3.39	2.09	1.42	54.02	
19	3/4"	-12	M30x2	-10	14,8	19,1	57,0	103,0	61,0	36	34,8	HCS-19-DKO-20S-090-W-OR-V-M-W5
					.58	.75	2.24	4.06	2.40	1.42	76.62	
19	3/4"	-12	M36x2	-12	14,8	19,1	57,0	102,5	58,5	46	45,6	HCS-19-DKO-25S-090-S-OR-V-M-W5
					.58	.75	2.24	4.04	2.30	1.81	100.44	
25	1"	-16	M42x2	-16	20,0	25,9	70,5	125,5	74,0	50	67,9	HCS-25-DKO-30S-090-S-OR-V-M-W5
					.79	1.02	2.78	4.94	2.91	1.97	149.61	
31	1 1/4"	-20	M52x2	-20	26,0	32,5	88,0	147,5	87,0	60	106,7	HCS-31-DKO-38S-090-S-OR-V-M-W5
					1.02	1.28	3.46	5.81	3.43	2.36	235.27	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 92-95

 **Straight Version** Page 110

 **ECOVOS Version** Pages 34-35

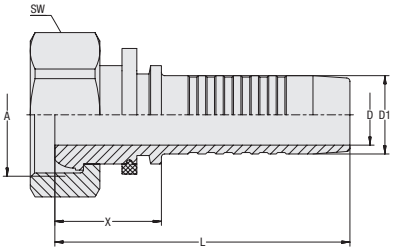
 **45° Version** Page 111

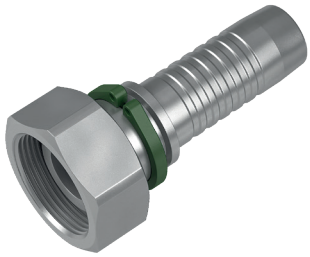
 **MULTIVOS Version** Page 149

Straight Insert with Female Metric Nut Thread and Metal Seat Type DKK

Connection Type Female Metric Nut Thread
Sealing Type 60° Metal Seat (suitable for bore type Y)
Standard DIN 3863-B

Material Stainless Steel





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
19	3/4“	-12	M30x1,5	-12	14,8	19,1	26,0	72,0	36	18,3	HCS-19-DKK-22LL-S-M-W5
					.58	.75	1.02	2.83	1.42	40.35	
19	3/4"	-12	M38x1,5	-16	14,8	19,1	26,0	72,0	46	25,3	HCS-19-DKK-28LL-S-M-W5
					.58	.75	1.02	2.83	1.81	55.79	
25	1"	-16	M38x1,5	-16	20,0	25,9	27,0	82,0	46	30,0	HCS-25-DKK-28LL-S-M-W5
					.79	1.02	1.06	3.23	1.81	66.15	
31	1 1/4"	-20	M45x1,5	-20	26,0	32,5	28,0	88,0	50	37,5	HCS-31-DKK-35LL-S-M-W5
					1.02	1.28	1.10	3.46	1.97	82.69	
38	1 1/2"	-24	M52x1,5	-24	31,0	38,9	28,5	96,0	60	57,8	HCS-38-DKK-42LL-S-M-W5
					1.22	1.53	1.12	3.78	2.36	127.45	
51	2"	-32	M65x2	-32	40,0	51,6	32,5	107,5	75	116,4	HCS-51-DKK-50LL-S-M-W5
						2.03	1.28	4.23	2.95	256.66	

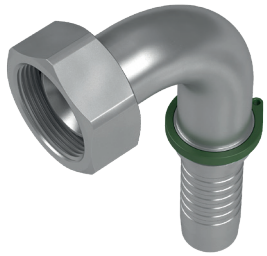
Related Products and Accessories

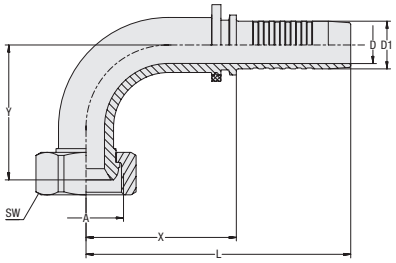
 **Swage Ferrules** Pages 92-95

 **90° Version** Page 114

 **ECOVOS Version** Page 44

90° Elbow Insert with Female Metric Thread and Metal Seat
Type DKK 90°





Connection Type Female Metric Nut Thread
Sealing Type 60° Metal Seat (suitable for bore type Y)
Standard DIN 3863-B

Material Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
19	3/4"	-12	M30x1,5	-12	14,8	19,1	60,0	106,0	54,0	36	30,4	HCS-19-DKK-22LL-090-S-M-W5
					.58	.75	2.36	4.17	2.13	1.42	67.03	
25	1"	-16	M38x1,5	-16	20,0	25,9	78,0	133,0	71,0	46	55,3	HCS-25-DKK-28LL-090-S-M-W5
					.79	1.02	3.07	5.24	2.80	1.81	121.83	
31	1 1/4"	-20	M45x1,5	-20	26,0	32,5	102,0	162,0	81,0	50	83,7	HCS-31-DKK-35LL-090-S-M-W5
					1.02	1.28	4.02	6.38	3.19	1.97	184.56	
38	1 1/2"	-24	M52x1,5	-24	31,0	38,9	112,5	180,0	108,5	60	141,7	HCS-38-DKK-42LL-090-S-M-W5
					1.22	1.53	4.43	7.09	4.27	2.36	312.34	
51	2"	-32	M65x2	-32	40,0	51,6	134,0	209,0	122,0	75	226,1	HCS-51-DKK-50LL-090-S-M-W5
					1.57	2.03	5.28	8.23	4.80	2.95	498.55	

Dimension Y ± 2,5 mm / .10 in

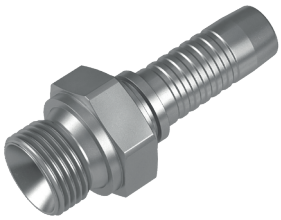
Related Products and Accessories

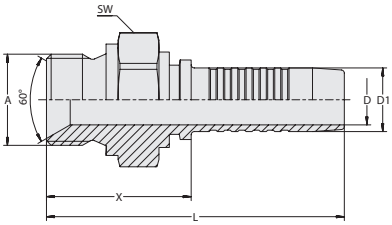

Swage Ferrules Pages 92-95


Straight Version Page 113


ECOVOS Version Page 46

Straight Insert with Male BSPP Thread and 60° Conical Bore
Type AGR





Connection Type	Male BSPP Thread
Sealing Type	60° Conical Bore
Standard	ISO 8434-6, BS 5200
Material	Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4''	-03	G1/4"	-04	3,9	6,7	29,0	59,0	19	3,9	HCS-06-AGR-04-M-W5
					.15	.26	1.14	2.32	.75	8.60	
06	1/4''	-03	G1/8"	-03	3,9	6,7	23,5	53,5	14	2,2	HCS-06-AGR-03-M-W5
					.15	.26	.93	2.11	.55	4.85	
06	1/4''	-03	G3/8"	-06	3,9	6,7	30,5	60,5	22	5,4	HCS-06-AGR-06-M-W5
					.15	.26	1.20	2.38	.87	11.91	
08	5/16''	-05	G1/4"	-04	5,4	8,0	29,0	59,0	19	4,1	HCS-08-AGR-04-M-W5
					.21	.31	1.14	2.32	.75	9.04	
08	5/16''	-05	G3/8"	-06	5,4	8,0	30,5	60,5	22	5,6	HCS-08-AGR-06-M-W5
					.21	.31	1.20	2.38	.87	12.35	
10	3/8''	-06	G3/8"	-06	6,5	9,6	30,5	63,5	22	6,3	HCS-10-AGR-06-M-W5
					.26	.38	1.20	2.50	.87	13.89	
10	3/8''	-06	G1/4"	-04	6,5	9,6	29,0	62,0	19	4,6	HCS-10-AGR-04-M-W5
					.26	.38	1.14	2.44	.75	10.14	
10	3/8''	-06	G1/2"	-08	6,5	9,6	34,0	67,0	27	9,1	HCS-10-AGR-08-M-W5
					.26	.38	1.34	2.64	1.06	20.07	
12	1/2''	-06	G1/2"	-08	9,5	12,8	34,5	70,0	27	10,3	HCS-12-AGR-08-M-W5
					.37	.50	1.36	2.76	1.06	22.60	
12	1/2''	-08	G3/8"	-06	9,5	12,8	31,5	66,5	22	6,8	HCS-12-AGR-06-M-W5
					.37	.50	1.24	2.62	.87	14.99	
12	1/2''	-08	G3/4"	-12	9,5	12,8	37,5	72,5	32	13,5	HCS-12-AGR-12-M-W5
					.37	.50	1.48	2.85	1.26	29.77	
16	5/8''	-10	G1/2"	-08	12,6	16,0	34,5	73,0	30	10,3	HCS-16-AGR-08-M-W5
					.50	.63	1.36	2.87	1.18	22.71	
16	5/8''	-10	G3/4"	-12	12,6	16,0	37,5	76,0	32	14,2	HCS-16-AGR-12-M-W5
					.50	.63	1.48	2.99	1.26	31.31	
19	3/4''	-12	G3/4"	-12	14,8	19,1	38,0	84,0	32	17,0	HCS-19-AGR-12-M-W5
					.58	.75	1.50	3.31	1.26	37.49	
19	3/4''	-12	G1"	-16	14,8	19,1	42,0	88,0	41	24,8	HCS-19-AGR-16-M-W5
					.58	.75	1.65	3.46	1.61	54.68	
25	1''	-16	G1"	-16	20,0	25,9	43,5	98,5	41	31,7	HCS-25-AGR-16-M-W5
					.79	1.02	1.71	3.88	1.61	69.90	
25	1''	-16	G1 1/4"	-20	20,0	25,9	45,5	100,5	50	41,0	HCS-25-AGR-20-M-W5
					.79	1.02	1.79	3.96	1.97	90.41	
31	1 1/4''	-20	G1 1/4"	-20	26,0	32,5	46,5	106,5	50	48,7	HCS-31-AGR-20-M-W5
					1.02	1.28	1.83	4.19	1.97	107.38	
31	1 1/4''	-20	G1"	-16	26,0	32,5	44,0	104,0	41	38,0	HCS-31-AGR-16-M-W5
					1.02	1.28	1.73	4.09	1.61	83.79	
38	1 1/2''	-24	G1 1/2"	-24	31,0	38,9	53,0	120,5	55	71,0	HCS-38-AGR-24-M-W5
					1.22	1.53	2.09	4.74	2.17	156.56	
51	2''	-32	G2"	-32	40,0	51,6	60,5	135,5	70	138,3	HCS-51-AGR-32-M-W5
					1.57	2.03	2.38	5.33	2.76	304.95	

Related Products and Accessories

 **Swage Ferrules** Pages 92-95

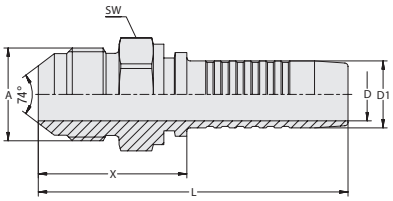
 **ECOVOS Version** Page 47

 **MULTIVOS Version** Page 150

Straight Insert with Male UN/UNF Thread and 74° Taper Type AGJ

Connection Type Male UN/UNF Thread
Sealing Type 74° Taper
Standard ISO 8434-2

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	7/16"-20 UNF	-04	3,9	6,7	28,0	58,0	14	2,4	HCS-06-AGJ-04-M-W5
					.15	.26	1.10	2.28	.55	5.29	
06	1/4"	-04	9/16"-18 UNF	-06	3,9	6,7	28,0	58,0	17	3,2	HCS-06-AGJ-06-M-W5
					.15	.26	1.10	2.28	.67	7.06	
08	5/16"	-05	1/2"-20 UNF	-05	5,4	8,0	28,0	58,0	14	2,7	HCS-08-AGJ-05-M-W5
					.21	.31	1.10	2.28	.55	5.95	
08	5/16"	-05	9/16"-18 UNF	-06	5,4	8,0	28,0	58,0	17	3,2	HCS-08-AGJ-06-M-W5
					.21	.31	1.10	2.28	.67	7.06	
10	3/8"	-06	9/16"-18 UNF	-06	6,5	9,6	28,0	61,5	17	3,8	HCS-10-AGJ-06-M-W5
					.26	.38	1.10	2.42	.67	8.38	
10	3/8"	-06	3/4"-16 UNF	-08	6,5	9,6	32,0	64,0	22	5,9	HCS-10-AGJ-08-M-W5
					.26	.38	1.26	2.52	.87	13.01	
12	1/2"	-08	3/4"-16 UNF	-08	9,5	12,8	32,5	68,0	22	6,8	HCS-12-AGJ-08-M-W5
					.37	.50	1.28	2.68	.87	14.99	
12	1/2"	-08	7/8"-14 UNF	-10	9,5	12,8	35,5	71,0	24	8,4	HCS-12-AGJ-10-M-W5
					.37	.50	1.40	2.80	.94	18.52	
16	5/8"	-10	7/8"-14 UNF	-10	12,6	16,0	35,5	74,0	24	9,0	HCS-16-AGJ-10-M-W5
					.50	.63	1.40	2.91	.94	19.85	
19	3/4"	-12	1 1/16"-12 UN	-12	14,8	19,1	41,0	86,5	30	15,9	HCS-19-AGJ-12-M-W5
					.58	.75	1.61	3.41	1.18	35.06	
25	1"	-16	1 5/16"-12 UN	-16	20,0	25,9	44,5	99,5	36	27,5	HCS-25-AGJ-16-M-W5
					.79	1.02	1.75	3.92	1.42	60.64	
31	1 1/4"	-20	1 5/8"-12 UN	-20	26,0	32,5	49,0	109,0	46	45,0	HCS-31-AGJ-20-M-W5
					1.02	1.28	1.93	4.29	1.81	99.23	
38	1 1/2"	-24	1 7/8"-12 UN	-24	31,0	38,9	55,5	123,0	50	62,8	HCS-38-AGJ-24-M-W5
					1.22	1.53	2.19	4.84	1.97	138.47	

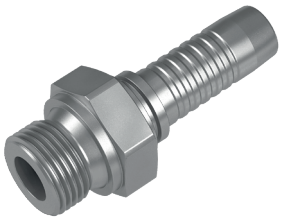
Related Products and Accessories

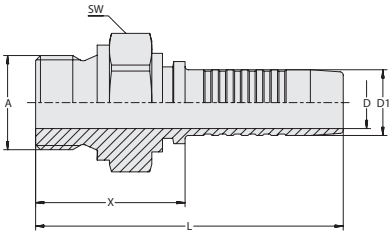
 **Swage Ferrules** Pages 92-95

 **ECOVOS Version** Page 50

 **MULTIVOS Version** Page 151

Straight Insert with Male BSPP Thread
Type AGRF





Connection Type Male BSPP Thread
Sealing Type Sealing Surface

Material Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	G1/4"	-04	3,9	6,7	29,0	59,0	19	4,2	HCS-06-AGRF-04-M-W5
					.15	.26	1.14	2.32	.75	9.26	
08	5/16"	-05	G1/2"	-08	5,4	8,0	34,0	64,0	27	8,9	HCS-08-AGRF-08-M-W5
					.21	.31	1.34	2.52	1.06	19.62	
10	3/8"	-06	G3/8"	-06	6,5	9,6	30,5	63,5	22	6,3	HCS-10-AGRF-06-M-W5
					.26	.38	1.20	2.50	.87	13.89	
10	3/8"	-06	G1/2"	-08	6,5	9,6	34,0	67,0	27	9,1	HCS-10-AGRF-08-M-W5
					.26	.38	1.34	2.64	1.06	20.07	
12	1/2"	-08	G3/8"	-06	9,5	12,8	31,5	66,5	22	6,9	HCS-12-AGRF-06-M-W5
					.37	.50	1.24	2.62	.87	15.21	
12	1/2"	-08	G1/2"	-08	9,5	12,8	34,5	70,0	27	10,7	HCS-12-AGRF-08-S-M-W5
					.37	.50	1.36	2.76	1.06	23.59	
16	5/8"	-10	G3/4"	-12	12,6	16,0	37,5	76,0	32	14,6	HCS-16-AGRF-12-S-M-W5
					.50	.63	1.48	2.99	1.26	32.19	
16	5/8"	-10	G1"	-16	12,6	16,0	41,5	79,5	41	25,1	HCS-16-AGRF-16-S-M-W5
					.50	.63	1.63	3.13	1.61	55.35	
19	3/4"	-12	G3/4"	-12	14,8	19,1	38,0	84,0	32	17,6	HCS-19-AGRF-12-W-M-W5
					.58	.75	1.50	3.31	1.26	38.81	
25	1"	-16	G1"	-16	20,0	25,9	43,5	98,5	41	32,6	HCS-25-AGRF-16-W-M-W5
					.79	1.02	1.71	3.88	1.61	71.88	
31	1 1/4"	-20	G1 1/4"	-20	26,0	32,5	46,5	106,5	50	50,5	HCS-31-AGRF-20-W-M-W5
					1.02	1.28	1.83	4.19	1.97	111.35	
38	1 1/2"	-24	G1 1/2"	-24	31,0	38,9	53,0	120,5	55	71,0	HCS-38-AGRF-24-W-M-W5
					1.22	1.53	2.09	4.74	2.17	156.56	
51	2"	-32	G2"	-32	40,0	51,6	60,5	135,5	70	138,3	HCS-51-AGRF-32-W-M-W5
					1.57	2.03	2.38	5.33	2.76	304.95	

Related Products and Accessories



Swage Ferrules Pages 92-95

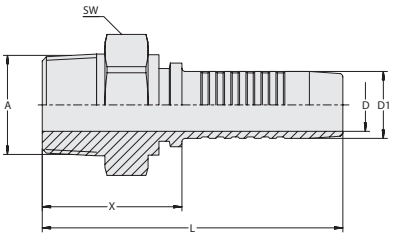


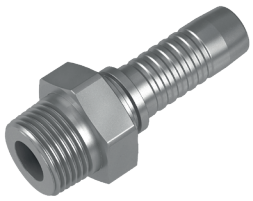
ECOVOS Version Page 48

Straight Insert with Male BSPT Thread
Type AGRK

Connection Type Male BSPT Thread
Sealing Type Tapered Thread

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	R1/8"	-03	3,9	6,7	21,5	51,5	12	1,7	HCS-06-AGRK-03-M-W5
					.15	.26	.85	2.03	.47	3.75	
06	1/4"	-04	R1/4"	-04	3,9	6,7	26,0	56,0	14	2,9	HCS-06-AGRK-04-M-W5
					.15	.26	1.02	2.20	.55	6.39	
08	5/16"	-05	R1/4"	-04	5,4	8,0	26,0	56,0	14	2,9	HCS-08-AGRK-04-M-W5
					.21	.31	1.02	2.20	.55	6.39	
08	5/16"	-05	R3/8"	-06	5,4	8,0	26,5	56,5	17	4,2	HCS-08-AGRK-06-M-W5
					.21	.31	1.04	2.22	.67	9.26	
10	3/8"	-06	R1/4"	-04	6,5	9,6	25,5	59,0	14	4,6	HCS-10-AGRK-04-M-W5
					.26	.38	1.00	2.32	.55	10.14	
10	3/8"	-06	R3/8"	-06	6,5	9,6	26,5	59,8	17	6,3	HCS-10-AGRK-06-M-W5
					.26	.38	1.04	2.35	.67	13.89	
12	1/2"	-08	R1/2"	-08	9,5	12,8	30,5	65,5	22	7,8	HCS-12-AGRK-08-M-W5
					.37	.50	1.20	2.58	.87	17.20	
16	5/8"	-10	R3/4"	-12	12,6	16,0	34,5	72,5	27	14,2	HCS-16-AGRK-12-M-W5
					.50	.63	1.36	2.85	1.06	31.31	
19	3/4"	-12	R3/4"	-12	14,8	19,1	35,0	80,5	27	17,0	HCS-19-AGRK-12-M-W5
					.58	.75	1.38	3.17	1.06	37.49	
19	3/4"	-12	R1"	-16	14,8	19,1	37,0	82,5	36	24,8	HCS-19-AGRK-16-M-W5
					.58	.75	1.46	3.25	1.42	54.68	
25	1"	-16	R1"	-16	20,0	25,9	38,0	93,0	36	31,7	HCS-25-AGRK-16-M-W5
					.79	1.02	1.50	3.66	1.42	69.90	
31	1 1/4"	-20	R1 1/4"	-20	26,0	32,5	43,0	103,0	46	48,7	HCS-31-AGRK-20-M-W5
					1.02	1.28	1.69	4.06	1.81	107.38	
38	1 1/2"	-24	R1 1/2"	-24	31,0	38,9	47,5	115,0	50	71,0	HCS-38-AGRK-24-M-W5
					1.22	1.53	1.87	4.53	1.97	156.56	
51	2"	-32	R2"	-32	40,0	51,6	54,0	129,0	65	138,3	HCS-51-AGRK-32-M-W5
					1.57	2.03	2.13	5.08	2.56	304.95	

Related Products and Accessories



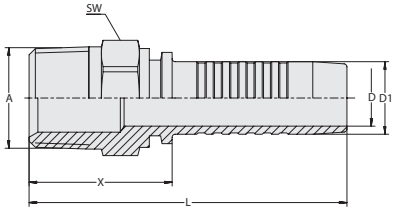
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ECOVOS Version Page 49

Straight Insert with Male NPTF Thread and 60° Conical Bore
Type AGN





Connection Type	Male NPTF Thread
Sealing Type	Tapered Thread and 60° Conical Bore
Standard	SAE J 516
Material	Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	1/4"-18 NPT	-04	3,9	6,7	28,0	58,0	14	2,8	HCS-06-AGN-04-M-W5
					.15	.26	1.10	2.28	.55	6.17	
06	1/4"	-04	1/8"-18 NPT	-03	3,9	6,7	23,0	53,0	12	1,9	HCS-06-AGN-03-M-W5
					.15	.26	.91	2.09	.47	4.19	
06	1/4"	-04	3/8"-18 NPT	-06	3,9	6,7	28,5	58,5	19	3,9	HCS-06-AGN-06-M-W5
					.15	.26	1.12	2.30	.75	8.60	
08	5/16"	-05	3/8"-18 NPT	-06	5,4	8,0	29,0	59,0	19	4,1	HCS-08-AGN-06-M-W5
					.21	.31	1.14	2.32	.75	9.04	
10	3/8"	-06	3/8"-18 NPT	-06	6,5	9,6	29,0	62,0	19	4,6	HCS-10-AGN-06-M-W5
					.26	.38	1.14	2.44	.75	10.14	
10	3/8"	-06	1/4"-18 NPT	-04	6,5	9,6	29,0	62,5	14	3,5	HCS-10-AGN-04-M-W5
					.26	.38	1.14	2.46	.55	7.72	
10	3/8"	-06	1/2"-14 NPT	-08	6,5	9,6	34,5	68,0	22	6,7	HCS-10-AGN-08-M-W5
					.26	.38	1.36	2.68	.87	14.77	
12	1/2"	-08	1/2"-14 NPT	-08	9,5	12,8	35,5	70,5	22	7,6	HCS-12-AGN-08-M-W5
					.37	.50	1.40	2.78	.87	16.76	
16	5/8"	-10	1/2"-14 NPT	-08	12,6	16,0	36,5	74,5	22	8,6	HCS-16-AGN-08-M-W5
					.50	.63	1.44	2.93	.87	18.96	
16	5/8"	-10	3/4"-14 NPT	-12	12,6	16,0	37,5	75,5	27	11,4	HCS-16-AGN-12-M-W5
					.50	.63	1.48	2.97	1.06	25.14	
19	3/4"	-12	3/4"-14 NPT	-12	14,8	19,1	38,0	83,5	27	13,3	HCS-19-AGN-12-M-W5
					.58	.75	1.50	3.29	1.06	29.33	
19	3/4"	-12	1"-11,5 NPT	-16	14,8	19,1	43,0	88,5	36	19,7	HCS-19-AGN-16-M-W5
					.58	.75	1.69	3.48	1.42	43.44	
25	1"	-16	1"-11,5 NPT	-16	20,0	25,9	44,0	99,0	36	25,6	HCS-25-AGN-16-M-W5
					.79	1.02	1.73	3.90	1.42	56.45	
25	1"	-16	1 1/4"-11,5 NPT	-20	20,0	25,9	46,0	101,0	46	34,4	HCS-25-AGN-20-M-W5
					.79	1.02	1.81	3.98	1.81	75.85	
31	1 1/4"	-20	1 1/4"-11,5 NPT	-20	26,0	32,5	47,0	107,0	46	40,4	HCS-31-AGN-20-M-W5
					1.02	1.28	1.85	4.21	1.81	89.08	
38	1 1/2"	-24	1 1/2"-11,5 NPT	-24	31,0	38,9	51,0	118,5	50	55,5	HCS-38-AGN-24-M-W5
					1.22	1.53	2.01	4.67	1.97	122.38	
51	2"	-32	2"-11,5 NPT	-32	40,0	51,6	57,0	132,0	65	125,0	HCS-51-AGN-32-M-W5
					1.57	2.03	2.24	5.20	2.56	275.63	

Related Products and Accessories

 **Swage Ferrules** Pages 92-95

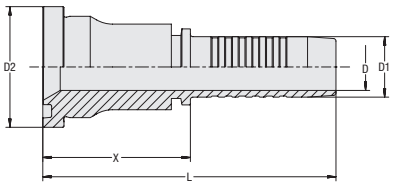
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 **MULTIVOS Version** Page 152

Straight Insert with SAE Flange Adaptor Type SFL (3000 PSI Series)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-1

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	per 100	
12	1/2"	-08	1/2"	-08	9,5	12,8	30,2	45,5	81,0	11,9	HCS-12-SFL-08-M-W5
					.37	.50	1.19	1.79	3.19	26.24	
12	1/2"	-08	3/4"	-12	9,5	12,8	38,1	46,5	81,5	18,4	HCS-12-SFL-12-M-W5
					.37	.50	1.50	1.83	3.21	40.57	
16	5/8"	-10	3/4"	-12	12,6	16,0	38,1	46,5	84,5	18,6	HCS-16-SFL-12-M-W5
					.50	.63	1.50	1.83	3.33	40.90	
19	3/4"	-12	3/4"	-12	14,8	19,1	38,1	47,0	92,5	21,8	HCS-19-SFL-12-M-W5
					.58	.75	1.50	1.85	3.64	48.07	
19	3/4"	-12	1"	-16	14,8	19,1	44,5	49,5	95,0	28,0	HCS-19-SFL-16-M-W5
					.58	.75	1.75	1.95	3.74	61.74	
25	1"	-16	1"	-16	20,0	25,9	44,5	48,0	103,0	34,0	HCS-25-SFL-16-M-W5
					.79	1.02	1.75	1.89	4.06	74.97	
25	1"	-16	1 1/4"	-20	20,0	25,9	50,8	68,5	123,5	47,5	HCS-25-SFL-20-M-W5
					.79	1.02	2.00	2.70	4.86	104.74	
31	1 1/4"	-20	1 1/4"	-20	26,0	32,5	50,8	69,5	129,5	53,5	HCS-31-SFL-20-M-W5
					1.02	1.28	2.00	2.74	5.10	117.97	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,9	60,3	59,5	127,0	66,6	HCS-38-SFL-24-M-W5
					1.22	1.53	2.37	2.34	5.00	146.85	
38	1 1/2"	-24	2"	-32	31,0	38,9	71,4	72,0	139,5	111,2	HCS-38-SFL-32-M-W5
					1.22	1.53	2.81	2.83	5.49	245.20	
51	2"	-32	2"	-32	40,0	51,6	71,4	72,0	147,0	131,4	HCS-51-SFL-32-M-W5
					1.57	2.03	2.81	2.83	5.79	289.74	

Related Products and Accessories

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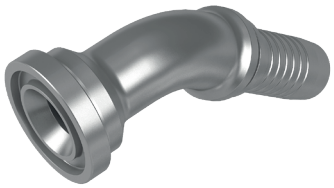
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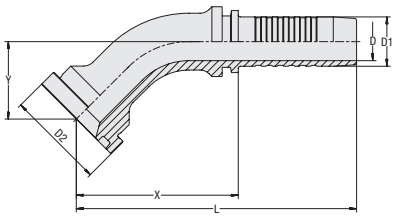
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 **MULTIVOS Version** Page 153

45° Elbow Insert with SAE Flange Adaptor
Type SFL 45° (3000 PSI Series)





Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-1

Material Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
12	1/2"	-08	1/2"	-08	9,5	12,8	30,2	50,0	85,5	20,5	10,9	HCS-12-SFL-08-045-M-W5
					.37	.50	1.19	1.97	3.37	.81	24.03	
12	1/2"	-08	3/4"	-12	9,5	12,8	38,1	55,0	90,5	26,0	16,0	HCS-12-SFL-12-045-M-W5
					.37	.50	1.50	2.17	3.56	1.02	35.17	
16	5/8"	-12	3/4"	-12	12,6	16,0	38,1	60,5	99,0	28,5	19,0	HCS-16-SFL-12-045-M-W5
					.50	.63	1.50	2.38	3.90	1.12	41.90	
19	3/4"	-12	3/4"	-12	14,8	19,1	38,1	62,5	108,5	30,0	22,9	HCS-19-SFL-12-045-M-W5
					.58	.75	1.50	2.46	4.27	1.18	50.49	
19	3/4"	-12	1"	-16	14,8	19,1	44,5	66,5	112,5	29,0	29,6	HCS-19-SFL-16-045-M-W5
					.58	.75	1.75	2.62	4.43	1.14	65.27	
25	1"	-16	1"	-16	20,0	25,9	44,5	82,5	137,5	35,0	41,9	HCS-25-SFL-16-045-M-W5
					.79	1.02	1.75	3.25	5.41	1.38	92.28	
31	1 1/4"	-20	1 1/4"	-20	26,0	32,5	50,8	98,5	158,5	36,5	63,0	HCS-31-SFL-20-045-M-W5
					1.02	1.28	2.00	3.88	6.24	1.44	138.80	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,9	60,3	130,5	198,0	47,0	110,6	HCS-38-SFL-24-045-M-W5
					1.22	1.53	2.37	5.14	7.80	1.85	243.76	
51	2"	-32	2"	-32	40,0	51,6	71,4	149,0	224,0	67,0	177,8	HCS-51-SFL-32-045-M-W5
					1.57	2.03	2.81	5.87	8.82	2.64	392.05	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


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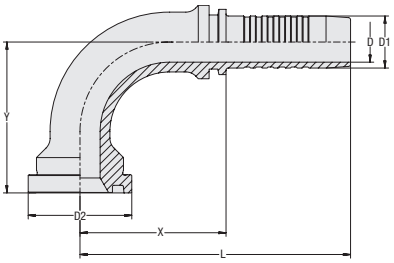

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90° Elbow Insert with SAE Flange Adaptor Type SFL 90° (3000 PSI Series)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-1

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
12	1/2"	-08	1/2"	-08	9,5	12,8	30,2	41,0	76,5	44,5	12,3	HCS-12-SFL-08-090-M-W5
					.37	.50	1.19	1.61	3.01	1.75	27.12	
16	5/8"	-10	3/4"	-12	12,6	16,0	38,1	49,0	87,5	55,5	21,2	HCS-16-SFL-12-090-M-W5
					.50	.63	1.50	1.93	3.44	2.19	46.75	
16	5/8"	-10	1"	-16	12,6	16,0	44,5	48,5	87,0	59,0	27,2	HCS-16-SFL-16-090-M-W5
					.50	.63	1.75	1.91	3.43	2.32	59.87	
19	3/4"	-12	3/4"	-12	14,8	19,1	38,1	53,5	99,5	55,5	26,5	HCS-19-SFL-12-090-M-W5
					.58	.75	1.50	2.11	3.92	2.19	58.32	
19	3/4"	-12	1"	-16	14,8	19,1	44,5	66,0	112,0	61,5	35,6	HCS-19-SFL-16-090-M-W5
					.58	.75	1.75	2.60	4.41	2.42	78.50	
25	1"	-16	1"	-16	20,0	25,9	44,5	70,0	125,0	72,0	48,6	HCS-25-SFL-16-090-M-W5
					.79	1.02	1.75	2.76	4.92	2.83	107.16	
31	1 1/4"	-20	1 1/4"	-20	26,0	32,5	50,8	88,5	148,5	84,0	77,4	HCS-31-SFL-20-090-M-W5
					1.02	1.28	2.00	3.48	5.85	3.31	170.67	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,9	60,3	111,0	178,5	110,0	134,3	HCS-38-SFL-24-090-M-W5
					1.22	1.53	2.37	4.37	7.03	4.33	296.13	
51	2"	-32	2"	-32	40,0	51,6	71,4	125,0	200,0	138,0	211,4	HCS-51-SFL-32-090-M-W5
					1.57	2.03	2.81	4.92	7.87	5.43	466.14	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

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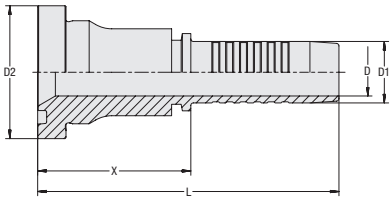
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Straight Insert with SAE Flange Adaptor
Type SFS (6000 PSI Series)





Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-2

Material Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	D2	X	L	per 100	
12	1/2"	-08	1/2"	-08	9,5	12,8	31,8	45,5	81,0	11,5	HCS-12-SFS-08-M-W5
					.37	.50	1.25	1.79	3.19	25.25	
12	1/2"	-08	3/4"	-12	9,5	12,8	41,3	49,0	84,5	19,2	HCS-12-SFS-12-M-W5
					.37	.50	1.63	1.93	3.33	42.34	
16	5/8"	-10	1/2"	-08	12,6	16,0	31,8	51,5	90,0	13,7	HCS-16-SFS-08-M-W5
					.50	.63	1.25	2.03	3.54	30.21	
16	5/8"	-10	3/4"	-12	12,6	16,0	41,3	45,5	84,0	21,4	HCS-16-SFS-12-M-W5
					.50	.63	1.63	1.79	3.31	47.19	
19	3/4"	-12	3/4"	-12	14,8	19,1	41,3	48,0	93,5	24,3	HCS-19-SFS-12-M-W5
					.58	.75	1.63	1.89	3.68	53.47	
19	3/4"	-12	1"	-16	14,8	19,1	47,6	51,0	96,5	31,4	HCS-19-SFS-16-M-W5
					.58	.75	1.87	2.01	3.80	69.24	
25	1"	-16	1"	-16	20,0	25,9	47,6	48,0	103,0	36,2	HCS-25-SFS-16-M-W5
					.79	1.02	1.87	1.89	4.06	79.82	
25	1"	-16	1 1/4"	-20	20,0	25,9	54,0	70,5	125,5	53,0	HCS-25-SFS-20-M-W5
					.79	1.02	2.13	2.78	4.94	116.87	
31	1 1/4"	-20	1 1/4"	-20	26,0	32,5	54,0	73,2	133,2	59,0	HCS-31-SFS-20-M-W5
					1.02	1.28	2.13	2.88	5.24	130.10	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,9	63,5	72,5	140,0	88,0	HCS-38-SFS-24-M-W5
					1.22	1.53	2.50	2.85	5.51	194.04	
51	2"	-32	2"	-32	40,0	51,6	79,4	75,0	150,0	162,4	HCS-51-SFS-32-M-W5
					1.57	2.03	3.13	2.95	5.91	358.09	

Related Products and Accessories


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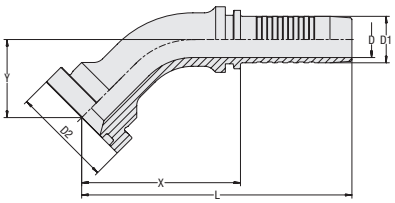

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45° Elbow Insert with SAE Flange Adaptor
Type SFS 45° (6000 PSI Series)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-2

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
12	1/2"	-08	1/2"	-08	9,5	12,8	31,8	49,5	85,0	23,0	11,7	HCS-12-SFS-08-045-M-W5
					.37	.50	1.25	1.95	3.35	.91	25.69	
12	1/2"	-08	3/4"	-12	9,5	12,8	41,3	55,0	90,5	27,0	18,4	HCS-12-SFS-12-045-M-W5
					.37	.50	1.63	2.17	3.56	1.06	40.46	
16	5/8"	-10	1/2"	-08	12,6	16,0	31,8	60,5	99,0	26,0	14,8	HCS-16-SFS-08-045-M-W5
					.50	.63	1.25	2.38	3.90	1.02	32.52	
16	5/8"	-10	3/4"	-12	12,6	16,0	41,3	60,5	99,0	28,0	20,9	HCS-16-SFS-12-045-M-W5
					.50	.63	1.63	2.38	3.90	1.10	45.97	
19	3/4"	-12	3/4"	-12	14,8	19,1	41,3	65,0	111,0	32,0	26,5	HCS-19-SFS-12-045-M-W5
					.58	.75	1.63	2.56	4.37	1.26	58.32	
19	3/4"	-12	1"	-16	14,8	19,1	47,6	68,0	114,0	30,5	33,1	HCS-19-SFS-16-045-M-W5
					.58	.75	1.87	2.68	4.49	1.20	72.88	
25	1"	-16	1"	-16	20,0	25,9	47,6	83,5	138,5	36,0	44,9	HCS-25-SFS-16-045-M-W5
					.79	1.02	1.87	3.29	5.45	1.42	98.89	
25	1"	-16	1 1/4"	-20	20,0	25,9	54,0	97,0	152,0	41,0	59,8	HCS-25-SFS-20-045-M-W5
					.79	1.02	2.13	3.82	5.98	1.61	131.75	
31	1 1/4"	-20	1 1/4"	-20	26,0	32,5	54,0	101,5	161,0	40,0	69,9	HCS-31-SFS-20-045-M-W5
					1.02	1.28	2.13	4.00	6.34	1.57	154.13	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,9	63,5	127,5	195,0	53,5	121,2	HCS-38-SFS-24-045-M-W5
					1.22	1.53	2.50	5.02	7.68	2.11	267.14	
51	2"	-32	2"	-32	40,0	51,6	79,4	150,0	223,5	65,5	213,1	HCS-51-SFS-32-045-M-W5
					1.57	2.03	3.13	5.91	8.80	2.58	469.78	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


Swage Ferrules Pages 92-95


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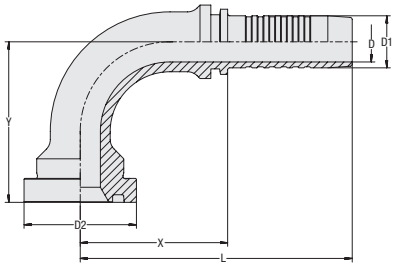

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90° Version Page 63


MULTIVOS Version Page 157

90° Elbow Insert with SAE Flange Adaptor
Type SFS 90° (6000 PSI Series)





Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-2

Material Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
12	1/2"	-08	1/2"	-08	9,5	12,8	31,8	39,0	74,5	46,5	13,2	HCS-12-SFS-08-090-M-W5
					.37	.50	1.25	1.54	2.93	1.83	29.11	
12	1/2"	-08	3/4"	-12	9,5	12,8	41,3	43,2	78,5	50,0	21,2	HCS-12-SFS-12-090-M-W5
					.37	.50	1.63	1.70	3.09	1.97	46.64	
16	5/8"	-10	1/2"	-08	12,6	16,0	31,8	52,0	90,5	52,5	17,2	HCS-16-SFS-08-090-M-W5
					.50	.63	1.25	2.05	3.56	2.07	37.82	
16	5/8"	-10	3/4"	-12	12,6	16,0	41,3	47,5	86,0	57,0	23,8	HCS-16-SFS-12-090-M-W5
					.50	.63	1.63	1.87	3.39	2.24	52.48	
19	3/4"	-12	3/4"	-12	14,8	19,1	41,3	54,0	100,0	59,0	30,1	HCS-19-SFS-12-090-M-W5
					.58	.75	1.63	2.13	3.94	2.32	66.37	
19	3/4"	-12	1"	-16	14,8	19,1	47,6	61,5	107,5	68,0	39,1	HCS-19-SFS-16-090-M-W5
					.58	.75	1.87	2.42	4.23	2.68	86.22	
25	1"	-16	1"	-16	20,0	25,9	47,6	70,5	125,5	73,0	48,7	HCS-25-SFS-16-090-M-W5
					.79	1.02	1.87	2.78	4.94	2.87	107.27	
25	1"	-16	1 1/4"	-20	20,0	25,9	54,0	81,0	136,0	80,5	67,3	HCS-25-SFS-20-090-M-W5
					.79	1.02	2.13	3.19	5.35	3.17	148.40	
31	1 1/4"	-20	1 1/4"	-20	26,0	32,5	54,0	92,0	152,0	84,0	83,1	HCS-31-SFS-20-090-M-W5
					1.02	1.28	2.13	3.62	5.98	3.31	183.24	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,9	63,5	108,5	176,0	109,5	143,5	HCS-38-SFS-24-090-M-W5
					1.22	1.53	2.50	4.27	6.93	4.31	316.31	
51	2"	-32	2"	-32	40,0	51,6	79,4	126,0	201,0	137,5	246,5	HCS-51-SFS-32-090-M-W5
					1.57	2.03	3.13	4.96	7.91	5.41	543.53	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


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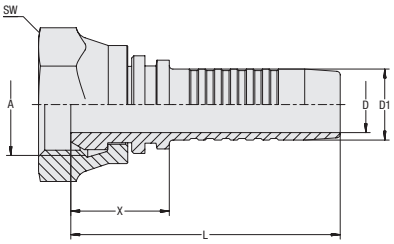

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Straight Insert with Female BSPP Thread and 60° Taper Type DKR

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-2

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4''	-04	G1/4"	-04	3,9	6,7	22,5	52,5	19	4,1	HCS-06-DKR-04-C-M-W5
					.15	.26	.89	2.07	.75	9.04	
06	1/4''	-04	G1/8"	-03	3,9	6,7	18,0	48,0	17	3,3	HCS-06-DKR-03-C-M-W5
					.15	.26	.71	1.89	.67	7.28	
06	1/4''	-04	G3/8"	-06	3,9	6,7	26,0	56,0	22	5,5	HCS-06-DKR-06-C-M-W5
					.15	.26	1.02	2.20	.87	12.13	
08	5/16''	-05	G1/4"	-04	5,4	8,0	19,5	49,5	19	4,2	HCS-08-DKR-04-C-M-W5
					.21	.31	.77	1.95	.75	9.26	
08	5/16''	-05	G3/8"	-06	5,4	8,0	27,0	57,0	22,0	5,8	HCS-08-DKR-06-C-M-W5
					.21	.31	1.06	2.24	.87	12.79	
08	5/16''	-05	G1/2"	-08	5,4	8,0	24,5	54,5	27,0	9,1	HCS-08-DKR-08-C-M-W5
					.21	.31	.96	2.15	1.06	20.07	
10	3/8''	-06	G3/8"	-06	6,5	9,6	24,0	57,0	22,0	6,2	HCS-10-DKR-06-C-M-W5
					.26	.38	.94	2.24	.87	13.67	
10	3/8''	-06	G1/4"	-04	6,5	9,6	19,5	53,0	19,0	4,7	HCS-10-DKR-04-C-M-W5
					.26	.38	.77	2.09	.75	10.36	
10	3/8''	-06	G1/2"	-08	6,5	9,6	30,0	63,5	27,0	9,9	HCS-10-DKR-08-C-M-W5
					.26	.38	1.18	2.50	1.06	21.83	
12	1/2''	-08	G1/2"	-08	9,5	12,8	27,5	62,5	27,0	10,3	HCS-12-DKR-08-C-M-W5
					.37	.50	1.08	2.46	1.06	22.71	
12	1/2''	-08	G3/8"	-06	9,5	12,8	21,5	57,0	22,0	8,3	HCS-12-DKR-06-C-M-W5
					.37	.50	.85	2.24	.87	18.30	
12	1/2''	-08	G3/4"	-12	9,5	12,8	30,5	65,5	32,0	14,4	HCS-12-DKR-12-C-M-W5
					.37	.50	1.20	2.58	1.26	31.75	
16	5/8''	-10	G5/8"	-10	12,6	16,0	24,0	62,5	30,0	13,8	HCS-16-DKR-10-C-M-W5
					.50	.63	.94	2.46	1.18	30.43	
16	5/8''	-10	G1/2"	-08	12,6	16,0	22,5	60,5	27,0	11,0	HCS-16-DKR-08-C-M-W5
					.50	.63	.89	2.38	1.06	24.26	
16	5/8''	-10	G3/4"	-12	12,6	16,0	24,0	62,5	32,0	14,4	HCS-16-DKR-12-C-M-W5
					.50	.63	.94	2.46	1.26	31.64	
19	3/4''	-12	G3/4"	-12	14,8	19,1	28,0	74,0	32,0	22,5	HCS-19-DKR-12-C-M-W5
					.58	.75	1.10	2.91	1.26	49.61	
19	3/4''	-12	G1"	-16	14,8	19,1	29,0	75,0	41,0	28,2	HCS-19-DKR-16-C-M-W5
					.58	.75	1.14	2.95	1.61	62.18	
25	1''	-16	G1"	-16	20,0	25,9	31,5	86,5	41,0	33,40	HCS-25-DKR-16-C-M-W5
					.79	1.02	1.24	3.41	1.61	73.65	
25	1''	-16	G1 1/4"	-20	20,0	25,9	31,5	86,5	50,0	43,30	HCS-25-DKR-20-W-M-W5
					.79	1.02	1.24	3.41	1.97	95.48	
31	1 1/4''	-20	G1 1/4"	-20	26,0	32,5	36,5	96,5	50,0	52,00	HCS-31-DKR-20-W-M-W5
					1.02	1.28	1.44	3.80	1.97	114.66	
31	1 1/4''	-20	G1 1/2"	-24	26,0	32,5	39,0	99,0	55,0	66,90	HCS-31-DKR-24-W-M-W5
					1.02	1.28	1.54	3.90	2.17	147.51	
38	1 1/2''	-24	G1 1/2"	-24	31,0	38,9	35,5	103,0	55,0	68,50	HCS-38-DKR-24-W-M-W5
					1.22	1.53	1.40	4.06	2.17	151.04	
38	1 1/2''	-24	G2"	-32	31,0	38,9	35,5	106,0	70,0	118,55	HCS-38-DKR-32-W-M-W5
					1.22	1.53	1.40	4.17	2.76	261.40	
51	2''	-32	G2"	-32	40,0	51,6	37,5	112,5	70,0	135,70	HCS-51-DKR-32-W-M-W5
					1.57	2.03	1.48	4.43	2.76	299.22	

Related Products and Accessories

 **Swage Ferrules** Pages 92-95

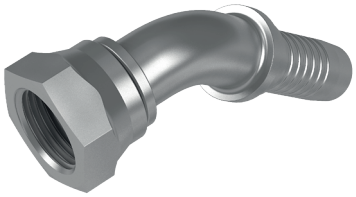
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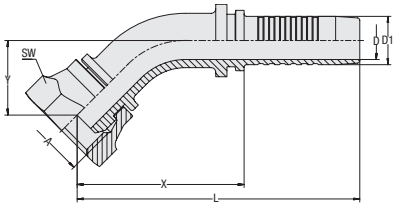
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 **90° Version** Page 129

 **MULTIVOS Version** Page 162

45° Elbow Insert with Female BSPP Thread and 60° Taper
Type DKR 45°





Connection Type Female BSPP Nut Thread
Sealing Type 60° Taper
Standard ISO 8434-6, BS 5200

Material Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	G1/4"	-04	3,9	6,7	33,0	63,0	16,0	19	4,5	HCS-06-DKR-04-045-S-M-W5
					.15	.26	1.30	2.48	.63	.75	9.81	
06	1/4"	-04	G3/8"	-06	3,9	6,7	36,0	66,0	16,5	22	6,6	HCS-06-DKR-06-045-S-M-W5
					.15	.26	1.42	2.60	.65	.87	14.44	
08	5/16"	-05	G3/8"	-06	5,4	8,0	38,0	68,0	16,0	22	6,5	HCS-08-DKR-06-045-S-M-W5
					.21	.31	1.50	2.68	.63	.87	14.22	
10	3/8"	-06	G3/8"	-06	6,5	9,6	40,0	73,5	16,0	22	7,6	HCS-10-DKR-06-045-S-M-W5
					.26	.38	1.57	2.89	.63	.87	16.65	
10	3/8"	-06	G1/2"	-08	6,5	9,6	40,5	74,0	19,5	27	10,7	HCS-10-DKR-08-045-S-M-W5
					.26	.38	1.59	2.91	.77	1.06	23.48	
12	1/2"	-08	G3/8"	-06	9,5	12,8	52,0	87,0	22,0	22	11,8	HCS-12-DKR-06-045-S-M-W5
					.37	.50	2.05	3.43	.87	.87	25.91	
12	1/2"	-08	G1/2"	-08	9,5	12,8	48,0	81,5	20,0	27	12,4	HCS-12-DKR-08-045-S-M-W5
					.37	.50	1.89	3.21	.79	1.06	27.23	
12	1/2"	-08	G5/8"	-10	9,5	12,8	45,5	81,0	19,5	30	14,6	HCS-12-DKR-10-045-S-M-W5
					.37	.50	1.79	3.19	.77	1.18	32.08	
16	5/8"	-10	G5/8"	-10	12,6	16,0	57,0	95,0	27,0	30	19,4	HCS-16-DKR-10-045-W-M-W5
					.50	.63	2.24	3.74	1.06	1.18	42.67	
16	5/8"	-10	G3/4"	-12	12,6	16,0	56,5	95,0	23,0	32	18,5	HCS-16-DKR-12-045-S-M-W5
					.50	.63	2.22	3.74	.91	1.26	40.68	
19	3/4"	-12	G3/4"	-12	14,8	19,1	62,5	108,5	30,0	36	31,2	HCS-19-DKR-12-045-W-M-W5
					.58	.75	2.46	4.27	1.18	1.42	68.69	
19	3/4"	-12	G1"	-16	14,8	19,1	62,5	108,5	30,0	41	36,3	HCS-19-DKR-16-045-S-M-W5
					.58	.75	2.46	4.27	1.18	1.61	79.93	
25	1"	-16	G1"	-16	20,0	25,9	88,0	143,0	37,0	41	51,5	HCS-25-DKR-16-045-W-M-W5
					.79	1.02	3.46	5.63	1.46	1.61	113.56	
31	1 1/4"	-20	G1 1/4"	-20	26,0	32,5	103,0	163,0	42,0	50	84,4	HCS-31-DKR-20-045-W-M-W5
					1.02	1.28	4.06	6.42	1.65	1.97	186.10	
38	1 1/2"	-24	G1 1/2"	-24	31,0	38,9	131,0	198,0	51,5	55	128,6	HCS-38-DKR-24-045-W-M-W5
					1.22	1.53	5.16	7.80	2.03	2.17	283.45	
51	2"	-32	G2"	-32	40,0	51,6	139,5	214,5	65,0	75	238,1	HCS-51-DKR-32-045-W-M-W5
					1.57	2.03	5.49	8.44	2.56	2.95	525.01	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

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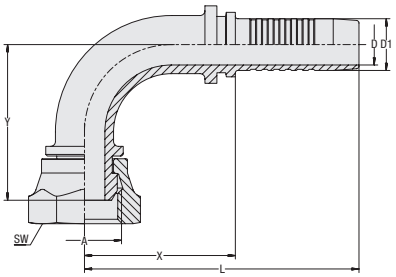
 **90° Version** Page 129

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90° Elbow Insert with Female BSPP Thread and 60° Taper Type DKR 90°

Connection Type Female BSPP Nut Thread
Sealing Type 60° Taper
Standard ISO 8434-6, BS 5200

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	G1/4"	-04	3,9	6,7	27,0	57,0	28,5	19	4,8	HCS-06-DKR-04-090-S-M-W5
					.15	.26	1.06	2.24	1.12	.75	10.47	
06	1/4"	-04	G3/8"	-06	3,9	6,7	28,0	58,0	31,0	22	7,1	HCS-06-DKR-06-090-S-M-W5
					.15	.26	1.10	2.28	1.22	.87	15.55	
08	5/16"	-05	G3/8"	-06	5,4	8,0	28,0	58,0	31,5	22	6,9	HCS-08-DKR-06-090-S-M-W5
					.21	.31	1.10	2.28	1.24	.87	15.21	
10	3/8"	-06	G3/8"	-06	6,5	9,6	34,0	67,5	37,0	22	8,7	HCS-10-DKR-06-090-S-M-W5
					.26	.38	1.34	2.66	1.46	.87	19.07	
10	3/8"	-06	G1/2"	-08	6,5	9,6	35,5	69,0	38,0	27	11,7	HCS-10-DKR-08-090-S-M-W5
					.26	.38	1.40	2.72	1.50	1.06	25.80	
12	1/2"	-08	G3/8"	-06	9,5	12,8	42,0	77,5	44,0	24	13,7	HCS-12-DKR-06-090-W-M-W5
					.37	.50	1.65	3.05	1.73	.94	30.10	
12	1/2"	-08	G1/2"	-08	9,5	12,8	41,0	76,5	40,5	27	14,0	HCS-12-DKR-08-090-S-M-W5
					.37	.50	1.61	3.01	1.59	1.06	30.76	
12	1/2"	-08	G5/8"	-10	9,5	12,8	41,0	76,5	40,0	30	16,3	HCS-12-DKR-10-090-S-M-W5
					.37	.50	1.61	3.01	1.57	1.18	35.83	
16	5/8"	-10	G5/8"	-10	12,6	16,0	46,5	85,0	53,0	30	21,6	HCS-16-DKR-10-090-W-M-W5
					.50	.63	1.83	3.35	2.09	1.18	47.63	
16	5/8"	-10	G3/4"	-12	12,6	16,0	46,5	85,0	50,0	32	20,5	HCS-16-DKR-12-090-S-M-W5
					.50	.63	1.83	3.35	1.97	1.26	45.20	
19	3/4"	-12	G3/4"	-12	14,8	19,1	54,0	100,0	59,5	36	35,8	HCS-19-DKR-12-090-W-M-W5
					.58	.75	2.13	3.94	2.34	1.42	78.83	
19	3/4"	-12	G1"	-16	14,8	19,1	54,0	100,0	57,0	41	40,1	HCS-19-DKR-16-090-S-M-W5
					.58	.75	2.13	3.94	2.24	1.61	88.31	
25	1"	-16	G1"	-16	20,0	25,9	75,5	130,5	71,5	41	59,0	HCS-25-DKR-16-090-W-M-W5
					.79	1.02	2.97	5.14	2.81	1.61	129.98	
31	1 1/4"	-20	G1 1/4"	-20	26,0	32,5	92,0	152,0	87,0	50	98,7	HCS-31-DKR-20-090-W-M-W5
					1.02	1.28	3.62	5.98	3.43	1.97	217.52	
38	1 1/2"	-24	G1 1/2"	-24	31,0	38,9	117,5	185,0	105,0	55	151,8	HCS-38-DKR-24-090-W-M-W5
					1.22	1.53	4.63	7.28	4.13	2.17	334.61	
51	2"	-32	G2"	-32	40,0	51,6	121,5	196,5	131,5	70	249,4	HCS-51-DKR-32-090-W-M-W5
					1.57	2.03	4.78	7.74	5.18	2.76	549.93	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

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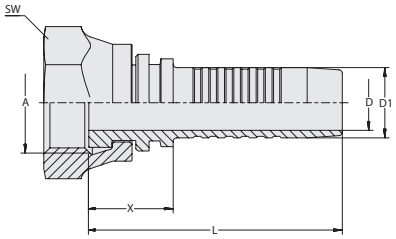
 **ECOVOS Version** Page 66

 **45° Version** Page 128

 **MULTIVOS Version** Page 164

Straight Insert with Female BSPP Thread
Type DKRF





Connection Type Female BSPP Nut Thread
Sealing Type Flat-Sealing

Material Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	G1/4"	-04	3,9	6,7	17,5	47,5	19	3,9	HCS-06-DKRF-04-S-M-W5
					.15	.26	.69	1.87	.75	8.49	
08	5/16"	-05	G1/4"	-04	5,4	8,0	16,0	46,0	19	4,1	HCS-08-DKRF-04-W-M-W5
					.21	.31	.63	1.81	.75	9.04	
10	3/8"	-06	G1/2"	-08	6,5	9,6	25,5	59,0	27	9,3	HCS-10-DKRF-08-S-M-W5
					.26	.38	1.00	2.32	1.06	20.40	
12	1/2"	-08	G1/2"	-08	9,5	12,8	20,5	56,0	27	9,6	HCS-12-DKRF-08-S-M-W5
					.37	.50	.81	2.20	1.06	21.06	
12	1/2"	-08	G3/4"	-12	9,5	12,8	25,5	61,0	32	13,3	HCS-12-DKRF-12-S-M-W5
					.37	.50	1.00	2.40	1.26	29.22	
16	5/8"	-10	G3/4"	-12	12,6	16,0	19,5	57,5	32	13,5	HCS-16-DKRF-12-S-M-W5
					.50	.63	.77	2.26	1.26	29.66	
19	3/4"	-12	G3/4"	-12	14,8	19,1	23,5	69,0	32	21,7	HCS-19-DKRF-12-W-M-W5
					.58	.75	.93	2.72	1.26	47.85	
25	1"	-16	G1"	-16	20,0	25,9	26,5	81,5	41	32,2	HCS-25-DKRF-16-W-M-W5
					.79	1.02	1.04	3.21	1.61	71.00	
31	1 1/4"	-20	G1 1/4"	-20	26,0	32,5	28,0	87,5	50	49,6	HCS-31-DKRF-20-W-M-W5
					1.02	1.28	1.10	3.44	1.97	109.37	
38	1 1/2"	-24	G1 1/2"	-24	31,0	38,9	28,5	96,0	55	65,4	HCS-38-DKRF-24-W-M-W5
					1.22	1.53	1.12	3.78	2.17	144.21	
51	2"	-32	G2"	-32	40,0	51,6	31,5	106,5	70	130,9	HCS-51-DKRF-32-W-M-W5
					1.57	2.03	1.24	4.19	2.76	288.63	

Related Products and Accessories

 **Swage Ferrules** Pages 92-95

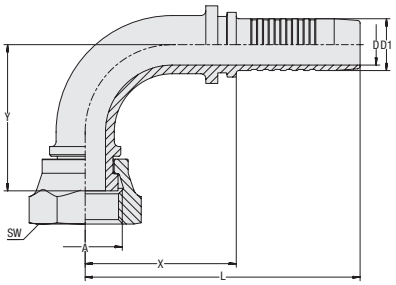
 **90° Version** Page 131

 **ECOVOS Version** Page 67

90° Elbow Insert with Female BSPP Thread
Type DKRF 90°

Connection Type Female BSPP Nut Thread
Sealing Type Flat-Sealing

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
06	1/4"	-04	G1/4"	-04	3,9	6,7	27,0	57,0	25,0	19	4,6	HCS-06-DKRF-04-090-S-M-W5
					.15	.26	1.06	2.24	.98	.75	10.14	
08	5/16"	-05	G3/8"	-06	5,4	8,0	28,0	58,0	27,5	22	6,6	HCS-08-DKRF-06-090-S-M-W5
					.21	.31	1.10	2.28	1.08	.87	14.44	
10	3/8"	-06	G3/8"	-06	6,5	9,6	34,0	67,5	33,0	22	8,4	HCS-10-DKRF-06-090-S-M-W5
					.26	.38	1.34	2.66	1.30	.87	18.41	
10	3/8"	-06	G1/2"	-08	6,5	9,6	35,5	69,0	33,5	27	11,2	HCS-10-DKRF-08-090-S-M-W5
					.26	.38	1.40	2.72	1.32	1.06	24.59	
12	1/2"	-08	G1/2"	-08	9,5	12,8	41,0	76,5	36,0	27	13,5	HCS-12-DKRF-08-090-S-M-W5
					.37	.50	1.61	3.01	1.42	1.06	29.66	
12	1/2"	-08	G3/4"	-12	9,5	12,8	38,0	73,5	41,0	32	17,1	HCS-12-DKRF-12-090-S-M-W5
					.37	.50	1.50	2.89	1.61	1.26	37.60	
16	5/8"	-10	G3/4"	-12	12,6	16,0	46,5	85,0	45,5	32	19,5	HCS-16-DKRF-12-090-S-M-W5
					.50	.63	1.83	3.35	1.79	1.26	42.89	
19	3/4"	-12	G3/4"	-12	14,8	19,1	54,0	100,0	54,5	36	35,1	HCS-19-DKRF-12-090-W-M-W5
					.58	.75	2.13	3.94	2.15	1.42	77.29	
25	1"	-16	G1"	-16	20,0	25,9	75,5	130,5	66,5	41	57,8	HCS-25-DKRF-16-090-W-M-W5
					.79	1.02	2.97	5.14	2.62	1.61	127.45	
31	1 1/4"	-20	G1 1/4"	-20	26,0	32,5	92,0	152,0	80,0	50	96,3	HCS-31-DKRF-20-090-W-M-W5
					1.02	1.28	3.62	5.98	3.15	1.97	212.23	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

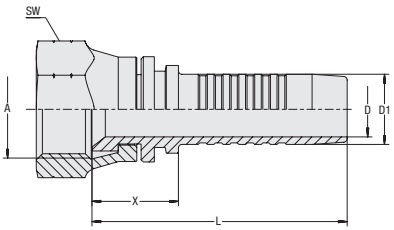
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 **Straight Version** Page 130

 **ECOVOS Version** Page 68

Straight Insert with Female UN/UNF Thread and 74° Conical Bore Type DKJ





Connection Type	Female UN/UNF Nut Thread
Sealing Type	74° Conical Bore
Standard	ISO 8434-2
Material	Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	7/16"-20 UNF	-04	3,9	6,7	17,5	47,5	17	3,7	HCS-06-DKJ-04-W-M-W5
					.15	.26	.69	1.87	.67	8.16	
06	1/4"	-04	1/2"-20 UNF	-05	3,9	6,7	19,0	49,0	17	3,2	HCS-06-DKJ-05-S-M-W5
					.15	.26	.75	1.93	.67	7.06	
06	1/4"	-04	9/16"-18 UNF	-06	3,9	6,7	19,0	49,0	19	4,0	HCS-06-DKJ-06-S-M-W5
					.15	.26	.75	1.93	.75	8.82	
06	1/4"	-04	3/4"-16 UNF	-08	3,9	6,7	22,0	52,0	24	6,0	HCS-06-DKJ-08-S-M-W5
					.15	.26	.87	2.05	.94	13.23	
08	5/16"	-05	1/2"-20 UNF	-05	5,4	8,0	17,0	47,0	19	4,4	HCS-08-DKJ-05-W-M-W5
					.21	.31	.67	1.85	.75	9.70	
08	5/16"	-05	9/16"-18 UNF	-06	5,4	8,0	19,0	49,0	22	4,1	HCS-08-DKJ-06-S-M-W5
					.21	.31	.75	1.93	.87	9.04	
10	3/8"	-06	9/16"-18 UNF	-06	6,5	9,6	18,5	52,0	22	6,5	HCS-10-DKJ-06-W-M-W5
					.26	.38	.73	2.05	.87	14.33	
10	3/8"	-06	3/4"-16 UNF	-08	6,5	9,6	22,0	55,5	24	6,7	HCS-10-DKJ-08-S-M-W5
					.26	.38	.87	2.19	.94	14.66	
10	3/8"	-06	7/8"-14 UNF	-10	6,5	9,6	23,5	57,0	27	8,6	HCS-10-DKJ-10-S-M-W5
					.26	.38	.93	2.24	1.06	18.96	
12	1/2"	-08	3/4"-16 UNF	-08	9,5	12,8	21,5	56,5	24	10,8	HCS-12-DKJ-08-W-M-W5
					.37	.50	.85	2.22	.94	23.81	
12	1/2"	-08	7/8"-14 UNF	-10	9,5	12,8	24,0	59,5	27	9,5	HCS-12-DKJ-10-S-M-W5
					.37	.50	.94	2.34	1.06	20.84	
12	1/2"	-08	1 1/16"-12 UN	-12	9,5	12,8	24,5	60,0	32	12,9	HCS-12-DKJ-12-S-M-W5
					.37	.50	.96	2.36	1.26	28.44	
16	5/8"	-10	7/8"-14 UNF	-10	12,6	16,0	21,5	59,5	27	13,6	HCS-16-DKJ-10-W-M-W5
					.50	.63	.85	2.34	1.06	29.99	
16	5/8"	-10	3/4"-16 UNF	-08	12,6	16,0	21,5	59,5	27	11,8	HCS-16-DKJ-08-W-M-W5
					.50	.63	.85	2.34	1.06	26.02	
16	5/8"	-10	1 1/16"-12 UN	-12	12,6	16,0	24,5	63,0	32	13,7	HCS-16-DKJ-12-S-M-W5
					.50	.63	.96	2.48	1.26	30.21	
19	3/4"	-12	1 1/16"-12 UN	-12	14,8	19,1	23,0	68,5	36	21,3	HCS-19-DKJ-12-W-M-W5
					.58	.75	.91	2.70	1.42	46.97	
19	3/4"	-12	7/8"-14 UNF	-10	14,8	19,1	22,0	67,5	27	15,9	HCS-19-DKJ-10-W-M-W5
					.58	.75	.87	2.66	1.06	35.06	
19	3/4"	-12	1 5/16"-12 UN	-16	14,8	19,1	27,0	72,5	41	24,6	HCS-19-DKJ-16-S-M-W5
					.58	.75	1.06	2.85	1.61	54.24	
25	1"	-16	1 5/16"-12 UN	-16	20,0	25,9	27,0	82,0	41	32,1	HCS-25-DKJ-16-W-M-W5
					.79	1.02	1.06	3.23	1.61	70.78	
31	1 1/4"	-20	1 5/8"-12 UN	-20	26,0	32,5	32,0	92,0	50	53,1	HCS-31-DKJ-20-W-M-W5
					1.02	1.28	1.26	3.62	1.97	117.09	
38	1 1/2"	-24	1 7/8"-12 UN	-24	31,0	38,9	33,5	101,0	60	70,8	HCS-38-DKJ-24-W-M-W5
					1.22	1.53	1.32	3.98	2.36	156.11	
51	2"	-32	2 1/2"-12 UN	-32	40,0	51,6	40,0	115,0	75	163,5	HCS-51-DKJ-32-W-M-W5
					1.57	2.03	1.57	4.53	2.95	360.52	

Related Products and Accessories


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90° Version Page 134


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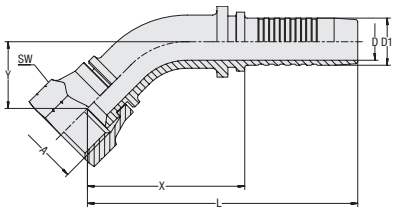

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POWERVOS Version Page 181

45° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore
Type DKJ 45°

Connection Type Female UN/UNF Nut Thread
Sealing Type 74° Conical Bore
Standard ISO 8434-2

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	D2	X	L	Y	per 100	
06	1/4"	-04	7/16"-20 UNF	-04	3,9	6,7	35,5	65,5	18,0	17	4,45	HCS-06-DKJ-04-045-W-M-W5
					.15	.26	1.40	2.58	.71	.67	.18	
06	1/4"	-04	1/2"-20 UNF	-05	3,9	6,7	33,5	63,5	13,5	17	3,8	HCS-06-DKJ-05-045-S-M-W5
					.15	.26	1.32	2.50	.53	.67	.15	
06	1/4"	-04	9/16"-18 UNF	-06	3,9	6,7	33,5	63,5	13,5	19	4,4	HCS-06-DKJ-06-045-S-M-W5
					.15	.26	1.32	2.50	.53	.75	.17	
08	5/16"	-05	1/2"-20 UNF	-05	5,4	8,0	40,0	70,0	18,0	19	5,9	HCS-08-DKJ-05-045-W-M-W5
					.21	.31	1.57	2.76	.71	.75	.23	
08	5/16"	-05	9/16"-18 UNF	-06	5,4	8,0	31,0	65,0	17,0	19	5,5	HCS-08-DKJ-06-045-S-M-W5
					.21	.31	1.22	2.56	.67	.75	.22	
10	3/8"	-06	9/16"-18 UNF	-06	6,5	9,6	40,0	73,5	20,5	22	8,65	HCS-10-DKJ-06-045-W-M-W5
					.26	.38	1.57	2.89	.81	.87	.34	
10	3/8"	-06	3/4"-16 UNF	-08	6,5	9,6	42,0	75,0	15,5	24	8,2	HCS-10-DKJ-08-045-S-M-W5
					.26	.38	1.65	2.95	.61	.94	.32	
12	1/2"	-08	3/4"-16 UNF	-08	9,5	12,8	46,5	82,0	23,0	27	9,95	HCS-12-DKJ-08-045-W-M-W5
					.37	.50	1.83	3.23	.91	1.06	.39	
12	1/2"	-08	7/8"-14 UNF	-10	9,5	12,8	43,5	79,0	17,5	27	13,95	HCS-12-DKJ-10-045-S-M-W5
					.37	.50	1.71	3.11	.69	1.06	.55	
16	5/8"	-10	7/8"-14 UNF	-10	12,6	16,0	54,0	92,0	26,5	30	19,0	HCS-16-DKJ-10-045-W-M-W5
					.50	.63	2.13	3.62	1.04	1.18	.75	
19	3/4"	-12	1 1/16"-12 UN	-12	14,8	19,1	59,0	105,0	26,0	36	29,9	HCS-19-DKJ-12-045-W-M-W5
					.58	.75	2.32	4.13	1.02	1.42	1.18	
25	1"	-16	1 5/16"-12 UN	-16	20,0	25,9	83,0	138,0	32,0	41	49,8	HCS-25-DKJ-16-045-W-M-W5
					.79	1.02	3.27	5.43	1.26	1.61	1.96	
31	1 1/4"	-20	1 5/8"-12 UN	-20	26,0	32,5	107,0	166,5	43,5	50	91,95	HCS-31-DKJ-20-045-W-M-W5
					1.02	1.28	4.21	6.56	1.71	1.97	3.62	
38	1 1/2"	-24	1 7/8"-12 UN	-24	31,0	38,9	133,0	200,5	57,0	55	131,85	HCS-38-DKJ-24-045-W-M-W5
					1.22	1.53	5.24	7.89	2.24	2.17	5.19	
51	2"	-32	2 1/2"-12 UN	-32	40,0	51,6	142,5	217,5	59,0	75	241,7	HCS-51-DKJ-32-045-W-M-W5
					1.57	2.03	5.61	8.56	2.32	2.95	9.52	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 92-95

 **Straight Version** Page 132

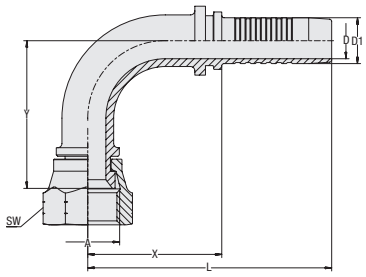
 **ECOVOS Version** Page 70

 **90° Version** Page 134

 **MULTIVOS Version** Page 166

90° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore
Type DKJ 90°





Connection Type	Female UN/UNF Nut Thread
Sealing Type	74° Conical Bore
Standard	ISO 8434-2
Material	Stainless Steel

C

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	D2	X	L	Y	per 100	
06	1/4"	-04	7/16"-20	-04	3,9	6,7	25,5	55,5	33,5	17	4,8	HCS-06-DKJ-04-090-W-M-W5
					.15	.26	1.00	2.19	1.32	.67	10.47	
06	1/4"	-04	1/2"-20	-05	3,9	6,7	28,0	58,0	27,5	17	4,1	HCS-06-DKJ-05-090-S-M-W5
					.15	.26	1.10	2.28	1.08	.67	8.93	
06	1/4"	-04	9/16"-18	-06	3,9	6,7	28,0	58,0	27,5	19	4,7	HCS-06-DKJ-06-090-S-M-W5
					.15	.26	1.10	2.28	1.08	.75	10.25	
08	5/16"	-05	1/2"-20	-05	5,4	8,0	28,5	58,5	32,0	19	6,2	HCS-08-DKJ-05-090-W-M-W5
					.21	.31	1.12	2.30	1.26	.75	13.67	
08	5/16"	-05	9/16"-18	-06	5,4	8,0	30,0	60,0	27,0	22	5,5	HCS-08-DKJ-06-090-S-M-W5
					.21	.31	1.18	2.36	1.06	.87	12.02	
10	3/8"	-06	9/16"-18	-06	6,5	9,6	35,0	68,5	38,0	22	9,8	HCS-10-DKJ-06-090-W-M-W5
					.26	.38	1.38	2.70	1.50	.87	21.50	
10	3/8"	-06	3/4"-16	-08	6,5	9,6	38,0	71,5	34,5	24	9,3	HCS-10-DKJ-08-090-S-M-W5
					.26	.38	1.50	2.81	1.36	.94	20.40	
12	1/2"	-08	3/4"-16	-08	9,5	12,8	39,5	75,0	44,0	27	15,5	HCS-12-DKJ-08-090-S-M-W5
					.37	.50	1.56	2.95	1.73	1.06	34.18	
12	1/2"	-08	7/8"-14	-10	9,5	12,8	40,5	76,0	41,0	27	13,3	HCS-12-DKJ-10-090-S-M-W5
					.37	.50	1.59	2.99	1.61	1.06	29.22	
16	5/8"	-10	7/8"-14	-10	12,6	16,0	45,5	84,0	52,5	30	21,5	HCS-16-DKJ-10-090-W-M-W5
					.50	.63	1.79	3.31	2.07	1.18	47.30	
19	3/4"	-12	1 1/16"-12	-12	14,8	19,1	54,0	100,0	53,5	36	34,5	HCS-19-DKJ-12-090-W-M-W5
					.58	.75	2.13	3.94	2.11	1.42	75.96	
19	3/4"	-12	1 5/16"-12	-16	14,8	19,1	54,0	100,0	55,0	41	37,2	HCS-19-DKJ-16-090-S-M-W5
					.58	.75	2.13	3.94	2.17	1.61	81.92	
25	1"	-16	1 5/16"-12	-16	20,0	25,9	75,0	130,0	68,5	41	57,3	HCS-25-DKJ-16-090-W-M-W5
					.79	1.02	2.95	5.12	2.70	1.61	126.35	
31	1 1/4"	-20	1 5/8"-12	-20	26,0	32,5	91,5	151,5	93,5	50	107,3	HCS-31-DKJ-20-090-W-M-W5
					1.02	1.28	3.60	5.96	3.68	1.97	236.60	
38	1 1/2"	-24	1 7/8"-12	-24	31,0	38,9	116,5	184,0	107,5	55	156,2	HCS-38-DKJ-24-090-W-M-W5
					1.22	1.53	4.59	7.24	4.23	2.17	344.42	
51	2"	-32	2 1/2"-12	-32	40,0	51,6	121,5	196,5	134,0	75	275,5	HCS-51-DKJ-32-090-W-M-W5
					1.57	2.03	4.78	7.74	5.28	2.95	607.48	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


Swage Ferrules Pages 92-95


Straight Version Page 132


ECOVOS Version Page 71

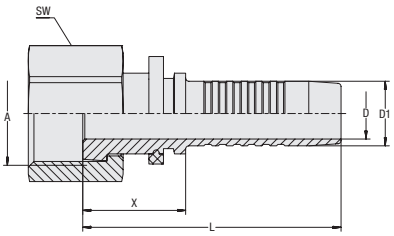

45° Version Page 133

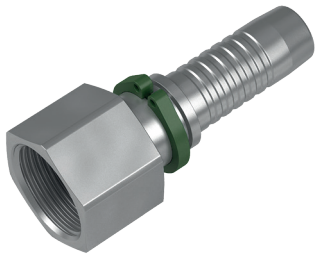

MULTIVOS Version Page 167

Straight Insert with Female UN/UNF Thread for O-Ring Face Seal Connection Type ORS

Connection Type Female UN/UNF Nut Thread
Sealing Type O-Ring Face Seal
Standard ISO 8434-3

Material Stainless Steel





C

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
10	3/8"	-06	11/16"-16 UN	-06	6,5	9,6	21,5	55,0	22	6,1	HCS-10-ORS-06-S-M-W5
					.26	.38	.85	2.17	.87	13.45	
10	3/8"	-06	13/16"-16 UN	-08	6,5	9,6	23,0	56,5	27	10,3	HCS-10-ORS-08-S-M-W5
					.26	.38	.91	2.22	1.06	22.71	
12	1/2"	-08	13/16"-16 UN	-08	9,5	12,8	23,5	59,0	27	10,5	HCS-12-ORS-08-S-M-W5
					.37	.50	.93	2.32	1.06	23.15	
16	5/8"	-10	1"-14 UNF	-10	12,6	16,0	25,5	64,0	30	13,1	HCS-16-ORS-10-S-M-W5
					.50	.63	1.00	2.52	1.18	28.78	

Related Products and Accessories

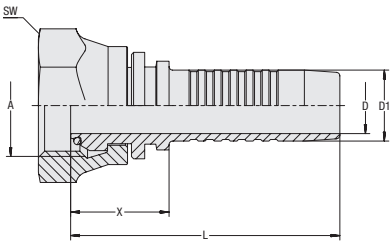
 **Swage Ferrules** Pages 92-95

 **ECOVOS Version** Page 78

 **MULTIVOS Version** Page 168

Straight Insert with Female BSPP Thread and 60° Taper / O-Ring Type DKOR





Connection Type	Female BSPP Nut Thread
Sealing Type	60° Taper with O-Ring
Standard	ISO 8434-6, BS 5200
Material	Stainless Steel
Sealing Material	FKM (Viton®)

C

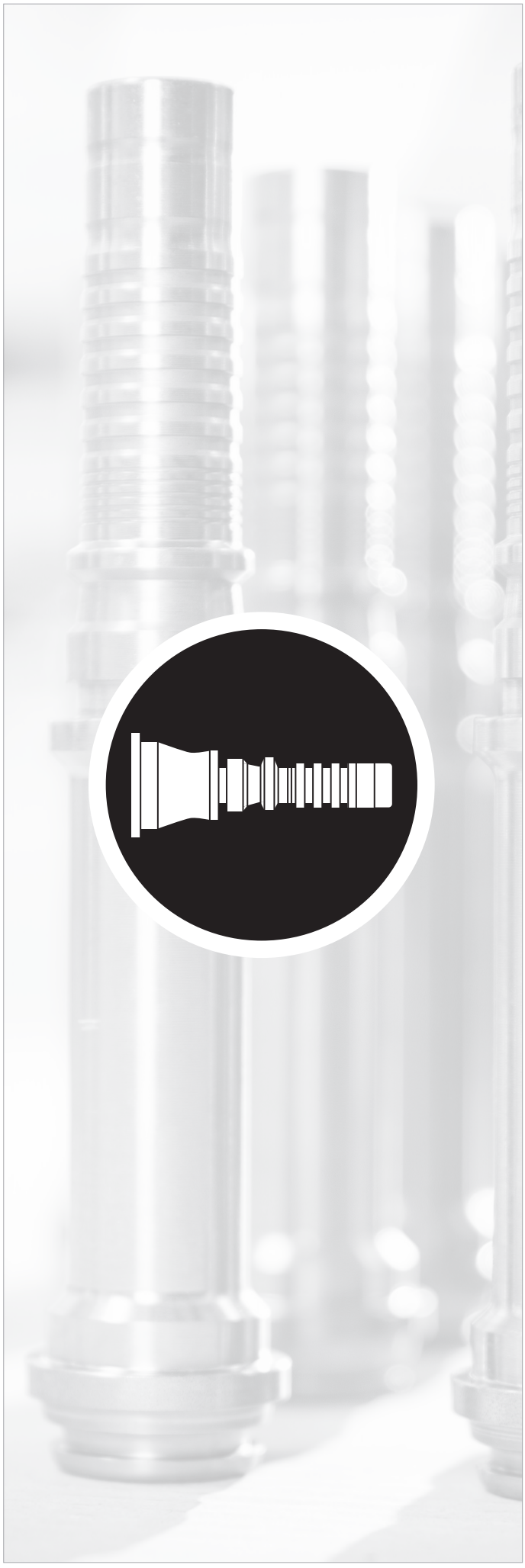
Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
06	1/4"	-04	G1/4"	-04	3,9	6,7	22,5	52,5	19	4,1	HCS-06-DKOR-04-S-OR-V-M-W5
					.15	.26	.89	2.07	.75	9.04	
08	5/16"	-05	G3/8"	-06	5,4	8,0	27,0	57,0	22	5,8	HCS-08-DKOR-06-S-OR-V-M-W5
					.21	.31	1.06	2.24	.87	12.68	
10	3/8"	-06	G3/8"	-06	6,5	9,6	24,0	57,0	22	6,2	HCS-10-DKOR-06-S-OR-V-M-W5
					.26	.38	.94	2.24	.87	13.56	
12	1/2"	-08	G1/2"	-08	9,5	12,8	27,5	62,5	27	10,2	HCS-12-DKOR-08-S-OR-V-M-W5
					.37	.50	1.08	2.46	1.06	22.49	
16	5/8"	-10	G5/8"	-10	12,6	16,0	24,0	62,5	30	13,6	HCS-16-DKOR-10-S-OR-V-M-W5
					.50	.63	.94	2.46	1.18	29.99	
16	5/8"	-10	G3/4"	-12	12,6	16,0	24,0	62,5	32	14,2	HCS-16-DKOR-12-W-OR-V-M-W5
					.50	.63	.94	2.46	1.26	31.20	
20	3/4"	-12	G3/4"	-12	14,8	19,1	28,0	74,0	32	22,4	HCS-19-DKOR-12-W-OR-V-M-W5
					.58	.75	1.10	2.91	1.26	49.28	
25	1"	-16	G1"	-16	14,8	19,1	31,5	86,5	41	33,1	HCS-25-DKOR-16-W-OR-V-M-W5
					.58	.75	1.24	3.41	1.61	72.99	
32	1 1/4"	-20	G1 1/4"	-20	26,0	32,5	35,0	94,5	50	51,9	HCS-31-DKOR-20-W-OR-V-M-W5
					1.02	1.28	1.38	3.72	1.97	114.44	
40	1 1/2"	-24	G1 1/2"	-24	31,0	38,9	35,5	103,0	55	68,3	HCS-38-DKOR-24-W-OR-V-M-W5
					1.22	1.53	1.40	4.06	2.17	150.60	
50	1 1/2"	-24	G2"	-32	40,0	51,6	37,5	112,5	70	135,4	HCS-51-DKOR-32-W-OR-V-M-W5
					1.57	2.03	1.48	4.43	2.76	298.45	

Related Products and Accessories

 **Swage Ferrules** Pages 92-95

 **MULTIVOS Version** Page 171

 **POWERVOS Version** Page 182





Skive Swage Ferrule for Spiral Hose
Suitable for Spiral Hose 4SP and 4SH **140**



Skive Swage Ferrule for Spiral Hose
Suitable for Spiral Hose R15 **141**



Straight Insert
with Male Metric Thread and 24° Conical Bore
CEL (Light Series) **142**



Straight Insert
with Male Metric Thread and 24° Conical Bore
CES (Heavy Series) **143**



Straight Insert
with Female Metric Nut Thread and 24° Taper / O-Ring
DKOL (Light Series) **144**



45° Elbow Insert
with Female Metric Nut Thread and 24° Taper / O-Ring
DKOL 45° (Light Series) **145**



90° Elbow Insert
with Female Metric Nut Thread and 24° Taper / O-Ring
DKOL 90° (Light Series) **146**



Straight Insert
with Female Metric Nut Thread and 24° Taper / O-Ring
DKOS (Heavy Series) **147**



45° Elbow Insert
with Female Metric Nut Thread and 24° Taper / O-Ring
DKOS 45° (Heavy Series) **148**



90° Elbow Insert
with Female Metric Nut Thread and 24° Taper / O-Ring
DKOS 90° (Heavy Series) **149**


Straight Insert
with Male BSPP Thread and 60° Conical Bore
AGR
150


Straight Insert
with Male UN/UNF Thread and 74° Taper
AGJ
151


Straight Insert
with Male NPTF Thread and 60° Conical Bore
AGN
152


Straight Insert
with SAE Flange Adaptor
SFL (3000 PSI Series)
153


45° Elbow Insert
with SAE Flange Adaptor
SFL 45° (3000 PSI Series)
154


90° Elbow Insert
with SAE Flange Adaptor
SFL 90° (3000 PSI Series)
155


Straight Insert
with SAE Flange Adaptor
SFS (6000 PSI Series)
156


45° Elbow Insert
with SAE Flange Adaptor
SFS 45° (6000 PSI Series)
157


90° Elbow Insert
with SAE Flange Adaptor
SFS 90° (6000 PSI Series)
158


Straight Insert
with SAE Flange Adaptor
SFC (9000 PSI Series)
159


45° Elbow Insert
with SAE Flange Adaptor
SFC 45° (9000 PSI Series)
160


90° Elbow Insert
with SAE Flange Adaptor
SFC 90° (9000 PSI Series)
161


Straight Insert
with Female BSPP Thread and 60° Taper
DKR
162


45° Elbow Insert
with Female BSPP Thread and 60° Taper
DKR 45°
163


90° Elbow Insert
with Female BSPP Thread and 60° Taper
DKR 90°
164


Straight Insert
with Female UN/UNF Thread and 74° Conical Bore
DKJ
165


45° Elbow Insert
with Female UN/UNF Thread and 74° Conical Bore
DKJ 45°
166


90° Elbow Insert
with Female UN/UNF Thread and 74° Conical Bore
DKJ 90°
167


Straight Insert
with Female UN/UNF Thread for O-Ring Face Seal Connection
ORS
168


45° Elbow Insert
with Female UN/UNF Thread for O-Ring Face Seal Connection
ORS 45°
169


90° Elbow Insert
with Female UN/UNF Thread for O-Ring Face Seal Connection
ORS 90°
170


Straight Insert
with Female BSPP Thread and 60° Taper / O-Ring
DKOR
171


45° Elbow Insert
with Female BSPP Thread and 60° Taper / O-Ring
DKOR 45°
172


90° Elbow Insert
with Female BSPP Thread and 60° Taper / O-Ring
DKOR 90°
173


Skive Swage Ferrule for Spiral Hose
Suitable for Spiral Hose R15
174


Straight Insert
with Male UN/UNF Thread and 74° Taper
AGJ
174


Straight Insert
with SAE Flange Adaptor
SFL (3000 PSI Series)
175


45° Elbow Insert
with SAE Flange Adaptor
SFL 45° (3000 PSI Series)
175


90° Elbow Insert
with SAE Flange Adaptor
SFL 90° (3000 PSI Series)
175


Straight Insert
with SAE Flange Adaptor
SFS (6000 PSI Series)
176


45° Elbow Insert
with SAE Flange Adaptor
SFS 45° (6000 PSI Series)
176


90° Elbow Insert
with SAE Flange Adaptor
SFS 90° (6000 PSI Series)
176


Straight Insert
with Female UN/UNF Thread and 74° Taper / O-Ring
DKOJ
177

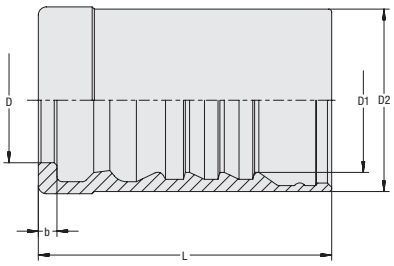

45° Elbow Insert
with Female UN/UNF Thread and 74° Taper / O-Ring
DKOJ 45°
177


90° Elbow Insert
with Female UN/UNF Thread and 74° Taper / O-Ring
DKOJ 90°
177

D

Internal & External Skive Swage Ferrule for Spiral Hose 4SP and 4SH





Ferrule Type with Pull-Out Protection (Interlock)

Suitable for 4SP, 4SH
Standards EN 856

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Maximum working pressures depending on the type of the hose connector and the hose type.

D

Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
10	3/8"	-06	14,4	19,8	27,0	41,0	3,0	6,9	HF-5000-10-W3
			.57	.78	1.06	1.61	.12	15.21	
12	1/2"	-08	16,8	21,7	29,0	47,0	3,0	8,8	HF-5000-12-W3
			.66	.85	1.14	1.85	.12	19.40	
16	5/8"	-10	23,4	27,0	34,2	55,0	3,5	11,45	HF-5000-16-W3
			.92	1.06	1.35	2.17	.14	25.25	
19	3/4"	-12	26,0	30,6	38,8	68,0	4,4	17,3	HF-6000-19-W3
			1.02	1.20	1.53	2.68	.17	38.15	
25	1"	-16	31,9	39,0	50,0	73,0	4,4	33,9	HF-6000-25-W3
			1.26	1.54	1.97	2.87	.17	74.75	
31	1 1/4"	-20	37,5	44,8	55,6	81,0	4,9	44,6	HF-5000-31-W3
			1.48	1.76	2.19	3.19	.19	98.34	
38	1 1/2"	-24	44,0	51,6	62,4	96,0	4,9	58,4	HF-5000-38-W3
			1.73	2.03	2.46	3.78	.19	128.77	
51	2"	-32	58,0	66,0	77,4	98,5	5,9	85,1	HF-5001-51-W3
			2.28	2.60	3.05	3.88	.23	187.65	

Related Products and Accessories



Test Mandrels Pages 185-187

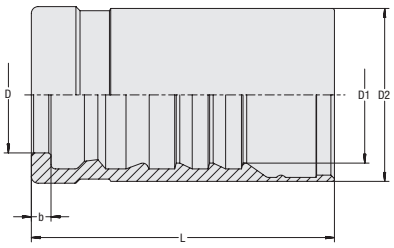
Internal & External Skive Swage Ferrule for Spiral Hose R15

Ferrule Type with Pull-Out Protection (Interlock)

Suitable for R15
Standards SAE 100 R15

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Maximum working pressures depending on the type of the hose connector and the hose type.





Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
19	3/4"	-12	26	30,6	38,8	68,0	4,4	17,3	HF-6000-19-W3
			1.02	1.20	1.53	2.68	.17	38.15	
25	1"	-16	31,9	39,0	50,0	73,0	4,4	33,9	HF-6000-25-W3
			1.26	1.54	1.97	2.87	.17	74.75	
31	1 1/4"	-20	41,3	48,6	61,4	81,0	4,9	43,3	HF-6001-31-W3
			1.63	1.91	2.42	3.19	.19	95.48	
38	1 1/2"	-24	46,7	58,5	69,5	92,0	4,9	68,9	HF-6000-38-W3
			1.84	2.30	2.74	3.62	.19	151.92	
51	2"	-32	58,0	71,1	82,5	98,5	5,9	92,9	HF-6001-51-W3 [1]
			2.28	2.80	3.25	3.88	.23	204.73	

[1] Designed for use with spiral hose R13 according to SAE 100 R13.

Please see pages 174-177 for the MULTIVOS-8 range in DN 51, designed for use with spiral hose R15 according to SAE 100 R15.

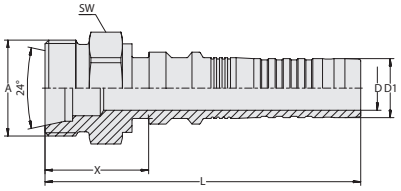
Related Products and Accessories



Test Mandrels Pages 185-187

Straight Insert with Male Metric Thread and 24° Conical Bore
Type CEL (Light Series)





Insert Type	with Pull-Out Protection (Interlock)
Connection Type	Male Metric Thread
Sealing Type	24° Conical Bore (Shape W acc. to DIN 3861)
Standard	ISO 8434-1
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating

D

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
10	3/8"	-06	M18X1,5	-06	6,5	9,6	24,5	66,0	19,0	4,5	HCI-10-CE-12L-M-W3
					.26	.38	.96	2.60	.75	9.81	
12	1/2"	-08	M22X1,5	-08	9,0	12,5	26,0	73,0	22,0	7,4	HCI-12-CE-15L-M-W3
					.35	.49	1.02	2.87	.87	16.21	
16	5/8"	-10	M26x1,5	-10	12,0	16,0	28,0	85,5	27,0	11,6	HCI-16-CE-18L-M-W3
					.47	.63	1.10	3.37	1.06	25.58	
19	3/4"	-12	M30x2	-12	14,8	18,8	31,5	104,0	30,0	17,4	HCI-19-CE-22L-M-W3
					.58	.74	1.24	4.09	1.18	38.26	
25	1"	-16	M36x2	-16	19,5	25,1	32,0	111,5	36,0	27,7	HCI-25-CE-28L-M-W3
					.77	.99	1.26	4.39	1.42	61.08	
25	1"	-16	M45x2	20	19,5	25,1	36,0	115,5	46,0	38,7	HCI-25-CE-35L-M-W3
					.77	.99	1.42	4.55	1.81	85.33	
31	1 1/4"	-20	M45x2	-20	25,0	31,8	37,0	115,0	46,0	45,4	HCI-31-CE-35L-M-W3
					.98	1.25	1.46	4.53	1.81	100.00	

Related Products and Accessories

 **Swage Ferrules** Pages 140-141

 **ECOVOS Version** Page 22

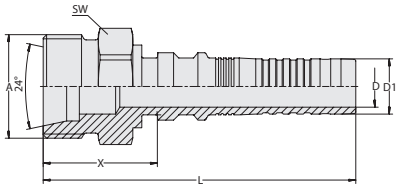
 **ECOVOS VA Version** Page 102

Straight Insert with Male Metric Thread and 24° Conical Bore
Type CES (Heavy Series)

Insert Type with Pull-Out Protection (Interlock)

Connection Type Male Metric Thread
Sealing Type 24° Conical Bore
(Shape W acc. to DIN 3861)
Standard ISO 8434-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
10	3/8''	-06	M22x1,5	-06	6,5	9,6	28,0	69,5	22,0	6,8	HCI-10-CE-14S-M-W3
					.26	.38	1.10	2.74	.87	14.99	
10	3/8''	-06	M20x1,5	-05	6,5	9,6	26,0	67,5	22	6,2	HCI-10-CE-12S-M-W3
					.26	.38	1.02	2.66	.87	13.67	
12	1/2''	-08	M24x1,5	-08	9,0	12,5	28,0	75,0	24	8,7	HCI-12-CE-16S-M-W3
					.35	.49	1.10	2.95	.94	19.18	
12	1/2''	-08	M30x2	-10	9,0	12,5	32,0	79,0	30	13,0	HCI-12-CE-20S-M-W3
					.35	.49	1.26	3.11	1.18	28.67	
16	5/8''	-10	M30x2	-10	12,0	16,0	33,0	90,5	30,0	15,2	HCI-16-CE-20S-M-W3
					.47	.63	1.30	3.56	1.18	33.52	
19	3/4''	-12	M36x2	-12	14,8	18,8	36,5	109,0	36,0	23,5	HCI-19-CE-25S-M-W3
					.58	.74	1.44	4.29	1.42	51.82	
19	3/4''	-12	M30x2	-10	14,8	18,8	33,5	106,0	30,0	17,9	HCI-19-CE-20S-M-W3
					.58	.74	1.32	4.17	1.18	39.47	
25	1''	-16	M42x2	-16	19,5	25,1	39,5	119,0	46,0	39,6	HCI-25-CE-30S-M-W3
					.77	.99	1.56	4.69	1.81	87.32	
31	1 1/4''	-20	M52x2	-20	25,0	31,8	45,0	123,0	55,0	64,1	HCI-31-CE-38S-M-W3
					.98	1.25	1.77	4.84	2.17	141.34	

D

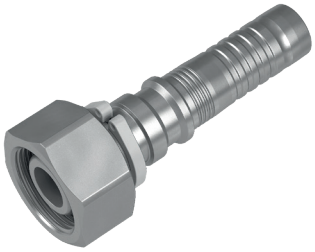
Related Products and Accessories

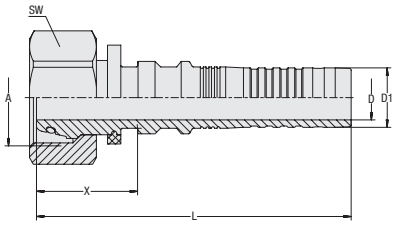

Swage Ferrules Pages 140-141


ECOVOS Version Page 23


ECOVOS VA Version Page 103

Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring
Type DKOL (Light Series)





Insert Type	with Pull-Out Protection (Interlock)
Connection Type	Female Metric Nut Thread
Sealing Type	24° Taper with O-Ring
Standard	ISO 8434-1
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating
Sealing Material	NBR (Buna-N®)

D

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
10	3/8"	-06	M18x1,5	-06	6,5	9,6	25,0	66,5	22,0	6,3	HCI-10-DKO-12L-S-OR-B-M-W3
					.26	.38	.98	2.62	.87	13.78	
12	1/2"	-08	M22x1,5	-08	9,0	12,5	23,5	70,5	27,0	9,7	HCI-12-DKO-15L-S-OR-B-M-W3
					.35	.49	.93	2.78	1.06	21.28	
16	5/8"	-10	M26x1,5	-10	12,0	16,0	27,0	84,5	32,0	14,9	HCI-16-DKO-18L-S-OR-B-M-W3
					.47	.63	1.06	3.33	1.26	32.85	
16	5/8"	-10	M30x2	-12	12,0	16,0	28,5	86,0	36,0	19,3	HCI-16-DKO-22L-S-OR-B-M-W3
					.47	.63	1.12	3.39	1.42	42.56	
31	1 1/4"	-20	M45x2	-20	25,0	31,8	34,0	112,0	50,0	50,9	HCI-31-DKO-35L-S-OR-B-M-W3
					.98	1.25	1.34	4.41	1.97	112.12	

Related Products and Accessories


Swage Ferrules Pages 140-141


45° Version Page 145


90° Version Page146


ECOVOS Version Pages 24-25

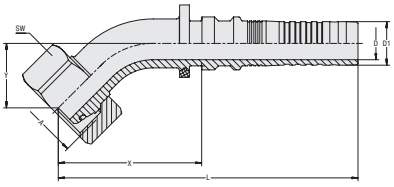

ECOVOS VA Version Page 107

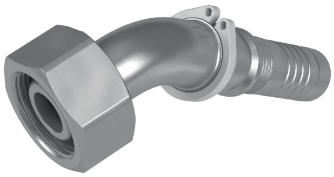
45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOL 45° (Light Series)

Insert Type with Pull-Out Protection (Interlock)

Connection Type Female Metric Nut Thread
Sealing Type 24° Taper with O-Ring
Standard ISO 8434-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
10	3/8"	-06	M18x1,5	-06	6,5	9,6	40,0	81,5	17,5	22,0	7,6	HCI-10-DKO-12L-045-S-OR-B-M-W3
					.26	.38	1.57	3.21	.69	.87	16.65	
10	3/8"	-06	M22x1,5	-08	6,5	9,6	40,0	81,5	18,5	27	10,0	HCI-10-DKO-15L-045-S-OR-B-M-W3
					.26	.38	1.57	3.21	.73	1.06	21.94	
12	1/2"	-08	M22x1,5	-08	9,0	12,5	44	91	21,0	27	12,1	HCI-12-DKO-15L-045-S-OR-B-M-W3
					.35	.49	1.73	3.58	.83	1.06	26.57	
16	5/8"	-10	M26x1,5	-10	12,0	16,0	52,5	110,0	24,0	32	18,7	HCI-16-DKO-18L-045-S-OR-B-M-W3
					.47	.63	2.07	4.33	.94	1.26	41.12	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 140-141

 **Straight Version** Page 144

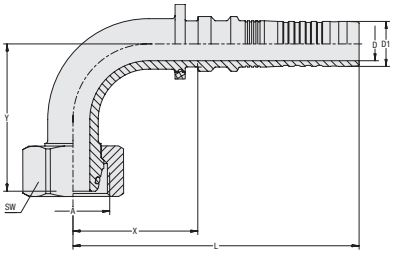
 **90° Version** Page 146

 **ECOVOS Version** Pages 26-27

 **ECOVOS VA Version** Page 108

90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOL 90° (Light Series)





Insert Type with Pull-Out Protection (Interlock)

Connection Type Female Metric Nut Thread
Sealing Type 24° Taper with O-Ring
Standard ISO 8434-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)

D

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
10	3/8"	-06	M18x1,5	-06	6,5	9,6	36,0	77,5	36,0	22,0	8,7	HCI-10-DKO-12L-090-S-OR-B-M-W3
					.26	.38	1.42	3.05	1.42	.87	19.07	
10	3/8"	-06	M22x1,5	-08	6,5	9,6	36,0	77,5	36,0	27	11,1	HCI-10-DKO-15L-090-S-OR-B-M-W3
					.26	.38	1.42	3.05	1.42	1.06	24.37	
12	1/2"	-08	M22x1,5	-08	9,0	12,5	38,5	85,5	42,0	27	13,8	HCI-12-DKO-15L-090-S-OR-B-M-W3
					.35	.49	1.52	3.37	1.65	1.06	30.43	
16	5/8"	-10	M26x1,5	-10	12,0	16,0	49,0	102,0	52,5	32	21,3	HCI-16-DKO-18L-090-S-OR-B-M-W3
					.47	.63	1.93	4.02	2.07	1.26	46.97	
19	3/4"	-12	M30x2	-12	14,8	18,8	55,5	128,0	57,0	36	32,5	HCI-19-DKO-22L-090-S-OR-B-M-W3
					.58	.74	2.19	5.04	2.24	1.42	71.66	
31	1 1/4"	-20	M45x2	-20	25,0	31,8	87,5	165,5	81,0	50	93,3	HCI-31-DKO-35L-090-S-OR-B-M-W3
					.98	1.25	3.44	6.52	3.19	1.97	205.62	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 140-141

 **Straight Version** Page 144

 **45° Version** Page 145

 **ECOVOS Version** Pages 28-29

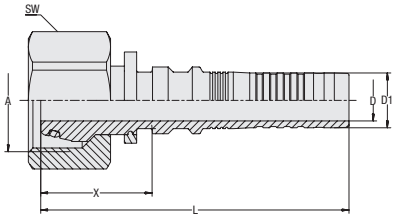
 **ECOVOS VA Version** Page

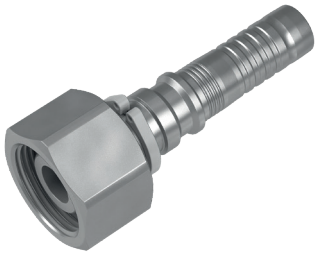
Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOS (Heavy Series)

Insert Type with Pull-Out Protection (Interlock)

Connection Type Female Metric Nut Thread
Sealing Type 24° Taper with O-Ring
Standard ISO 8434-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
10	3/8"	-06	M22x1,5	-06	6,5	9,6	29,0	70,5	27	10,0	HCI-10-DKO-14S-S-OR-B-M-W3
					.26	.38	1.14	2.78	1.06	22.05	
10	3/8"	-06	M18x1,5	-04	6,5	9,6	27,0	68,5	22	6,6	HCI-10-DKO-10S-W-OR-B-M-W3
					.26	.38	1.06	2.70	.87	14.44	
10	3/8"	-06	M20x1,5	-05	6,5	9,6	25,0	66,5	24	7,3	HCI-10-DKO-12S-S-OR-B-M-W3
					.26	.38	.98	2.62	.94	15.99	
12	1/2"	-08	M24x1,5	-08	9,0	12,5	30,0	77,0	30	13,4	HCI-12-DKO-16S-S-OR-B-M-W3
					.35	.49	1.18	3.03	1.18	29.44	
12	1/2"	-08	M30x2	-10	9,0	12,5	31,5	78,5	36	20,1	HCI-12-DKO-20S-S-OR-B-M-W3
					.35	.49	1.24	3.09	1.42	44.21	
16	5/8"	-10	M30x2	-10	12,0	16,0	32,5	90,0	36	21,2	HCI-16-DKO-20S-S-OR-B-M-W3
					.47	.63	1.28	3.54	1.42	46.64	
16	5/8"	-10	M24x1,5	-08	12,0	16,0	26,0	83,5	30	15,0	HCI-16-DKO-16S-W-OR-B-M-W3
					.47	.63	1.02	3.29	1.18	33.08	
16	5/8"	-10	M36x2	-12	12,0	16,0	31,5	89,0	41	28,9	HCI-16-DKO-25S-S-OR-B-M-W3
					.47	.63	1.24	3.50	1.61	63.61	
19	3/4"	-12	M36x2	-12	14,8	18,8	35,5	108	41	30,1	HCI-19-DKO-25S-S-OR-B-M-W3-SW41
					.58	.74	1.40	4.25	1.61	66.37	
19	3/4"	-12	M30x2	-10	14,8	18,8	30,5	103,0	36	23,9	HCI-19-DKO-20S-W-OR-B-M-W3
					.58	.74	1.20	4.06	1.42	52.59	
19	3/4"	-12	M42x2	-16	14,8	18,8	37,5	110,0	50	46,6	HCI-19-DKO-30S-S-OR-B-M-W3
					.58	.74	1.48	4.33	1.97	102.75	
19	3/4"	-12	M36x2	-12	14,8	18,8	31,5	104,0	46	38,0	HCI-19-DKO-25S-S-OR-B-M-W3
					.58	.74	1.24	4.09	1.81	83.68	
25	1"	-16	M42x2	-16	19,5	25,1	37,5	117,0	50	49,9	HCI-25-DKO-30S-S-OR-B-M-W3
					.77	.99	1.48	4.61	1.97	110.03	
25	1"	-16	M36x2	-12	19,5	25,1	31,5	111,0	41	37,0	HCI-25-DKO-25S-W-OR-B-M-W3
					.77	.99	1.24	4.37	1.61	81.47	
25	1"	-16	M52x2	-20	19,5	25,1	41,0	120,5	60	74,5	HCI-25-DKO-38S-S-OR-B-M-W3
					.77	.99	1.61	4.74	2.36	164.27	
31	1 1/4"	-20	M52x2	-20	25,0	31,8	41,5	119,5	60	76,5	HCI-31-DKO-38S-S-OR-B-M-W3
					.98	1.25	1.63	4.70	2.36	168.57	
31	1 1/4"	-20	M42x2	-16	25,0	31,8	33,5	111,5	50	58,1	HCI-31-DKO-30S-W-OR-B-M-W3
					.98	1.25	1.32	4.39	1.97	128.11	
19	3/4"	-12	M42x2	-16	14,8	18,8	48,5	121,0	50	47,3	HCI-19-DKO-30S-S-OR-B-B-W3
					.58	.74	1.91	4.76	1.97	104.30	
25	1"	-16	M36x2	-12	19,5	25,1	64,0	143,5	46	61,5	HCI-25-DKO-25S-S-OR-B-B-W3
					.77	.99	2.52	5.65	1.81	135.61	
25	1"	-16	M52x2	-20	19,5	25,1	55,0	134,5	60	76,3	HCI-25-DKO-38S-S-OR-B-B-W3
					.77	.99	2.17	5.30	2.36	168.24	
31	1 1/4"	-20	M42x2	-16	25,0	31,8	72,0	150,0	50	86,2	HCI-31-DKO-30S-S-OR-B-B-W3
					.98	1.25	2.83	5.91	1.97	190.07	
38	1 1/2"	-24	M52x2	-20	31,0	38,3	70,5	163,5	60	118,0	HCI-38-DKO-38S-S-OR-B-B-W3
					1.22	1.51	2.78	6.44	2.36	260.08	

D

Related Products and Accessories


Swage Ferrules Pages 140-141


45° Version Page 148

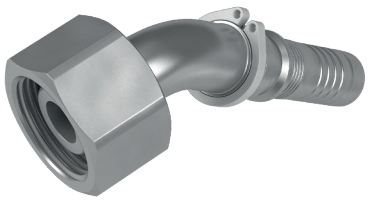

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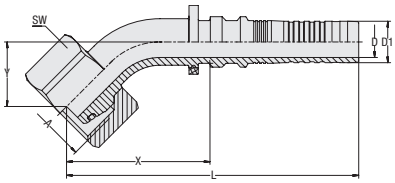

ECOVOS Version Pages 30-31


ECOVOS VA Version Page 108


POWERVOS Version Page 180

45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOS 45° (Heavy Series)





Insert Type	with Pull-Out Protection (Interlock)
Connection Type	Female Metric Nut Thread
Sealing Type	24° Taper with O-Ring
Standard	ISO 8434-1
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating
Sealing Material	NBR (Buna-N®)

D

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
10	3/8"	-06	M20x1,5	-05	6,5	9,6	40,0	81,5	17,5	24	8,5	HCI-10-DKO-12S-045-S-OR-B-M-W3
					.26	.38	1.57	3.21	.69	.94	18.74	
10	3/8"	-06	M22x1,5	-06	6,5	9,6	43,5	85,0	21,0	27	11,4	HCI-10-DKO-14S-045-S-OR-B-M-W3
					.26	.38	1.71	3.35	.83	1.06	25.03	
12	1/2"	-08	M24x1,5	-08	9,0	12,5	49,0	95,0	22,5	30	15,7	HCI-12-DKO-16S-045-S-OR-B-M-W3
					.35	.49	1.93	3.74	.89	1.18	34.51	
12	1/2"	-08	M30x2	-10	9,0	12,5	52,5	99,5	27,5	30	22,5	HCI-12-DKO-20S-045-W-OR-B-M-W3
					.35	.49	2.07	3.92	1.08	1.18	49.61	
16	5/8"	-10	M30x2	-10	12,0	16,0	55,5	113,0	25,0	36	24,6	HCI-16-DKO-20S-045-S-OR-B-M-W3
					.47	.63	2.19	4.45	.98	1.42	54.13	
19	3/4"	-12	M30x2	-10	14,8	18,8	70,0	142,5	30,5	36	36,0	HCI-19-DKO-20S-045-S-OR-B-B-W3
					.58	.74	2.76	5.61	1.20	1.42	79.38	
19	3/4"	-12	M36x2	-12	14,8	18,8	64,5	137,5	29,0	46	43,9	HCI-19-DKO-25S-045-S-OR-B-M-W3
					.58	.74	2.54	5.41	1.14	1.81	96.69	
19	3/4"	-12	M42x2	-16	14,8	18,8	80,5	153,0	35,0	50	60,0	HCI-19-DKO-30S-045-S-OR-B-B-W3
					.58	.74	3.17	6.02	1.38	1.97	132.30	
19	3/4"	-12	M36x2	-12	14,8	18,8	64,5	137,5	29,0	41	36,0	HCI-19-DKO-25S-045-S-OR-B-M-W3-SW41
					.58	.74	2.54	5.41	1.14	1.61	79.38	
25	1"	-16	M36x2	-12	19,5	25,1	83,0	162,5	35,0	46	68,2	HCI-25-DKO-25S-045-S-OR-B-B-W3
					.77	.99	3.27	6.40	1.38	1.81	150.27	
25	1"	-16	M42x2	-16	19,5	25,1	80,5	160,0	36,5	50	63,9	HCI-25-DKO-30S-045-S-OR-B-M-W3
					.77	.99	3.17	6.30	1.44	1.97	140.79	
25	1"	-16	M52x2	-20	19,5	25,1	94,0	173,5	39,5	60	100,1	HCI-25-DKO-38S-045-S-OR-B-B-W3
					.77	.99	3.70	6.83	1.56	2.36	220.72	
31	1 1/4"	-20	M42x2	-16	25,0	31,8	96,0	174,0	39,0	50	98,1	HCI-31-DKO-30S-045-S-OR-B-B-W3
					.98	1.25	3.78	6.85	1.54	1.97	216.20	
31	1 1/4"	-20	M52x2	-20	25,0	31,8	98,5	176,5	41,5	60	102,3	HCI-31-DKO-38S-045-S-OR-B-M-W3
					.98	1.25	3.88	6.95	1.63	2.36	225.46	
38	1 1/2"	-24	M52x2	-20	31,0	38,3	113,5	206,0	47,5	60	147,0	HCI-38-DKO-38S-045-S-OR-B-B-W3
					1.22	1.51	4.47	8.11	1.87	2.36	324.14	

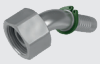
Dimension Y ± 2,5 mm / .10 in

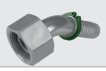
Related Products and Accessories


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90° Version Page 149


ECOVOS Version Pages 32-33

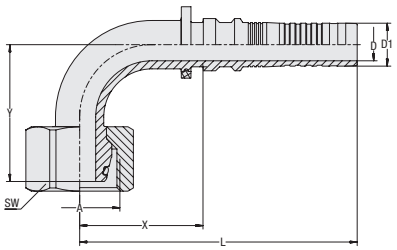

ECOVOS VA Version Page 111

90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOS 90° (Heavy Series)

Insert Type with Pull-Out Protection (Interlock)

Connection Type Female Metric Nut Thread
Sealing Type 24° Taper with O-Ring
Standard ISO 8434-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
10	3/8"	-06	M20x1,5	-05	6,5	9,6	36,0	77,5	36,0	24	9,6	HCI-10-DKO-12S-090-S-OR-B-M-W3
					.26	.38	1.42	3.05	1.42	.94	21.17	
10	3/8"	-06	M22x1,5	-06	6,5	9,6	37,0	77,5	41,0	27	12,5	HCI-10-DKO-14S-090-S-OR-B-M-W3
					.26	.38	1.46	3.05	1.61	1.06	27.56	
12	1/2"	-08	M24x1,5	-08	9,0	12,5	40,0	87,0	46,0	30	17,4	HCI-12-DKO-16S-090-S-OR-B-M-W3
					.35	.49	1.57	3.43	1.81	1.18	38.26	
12	1/2"	-08	M30x2	-10	9,0	12,5	39,5	86,5	51,5	36	24,1	HCI-12-DKO-20S-090-S-OR-B-M-W3
					.35	.49	1.56	3.41	2.03	1.42	53.14	
16	5/8"	-10	M30x2	-10	12,0	16,0	46,0	103,5	51,5	36	26,8	HCI-16-DKO-20S-090-S-OR-B-M-W3
					.47	.63	1.81	4.07	2.03	1.42	59.09	
19	3/4"	-12	M36x2	-12	14,8	18,8	54,5	127,0	58,5	46	47,7	HCI-19-DKO-25S-090-S-OR-B-M-W3
					.58	.74	2.15	5.00	2.30	1.81	105.18	
19	3/4"	-12	M36x2	-12	14,8	18,8	54,5	127,0	58,5	41	39,8	HCI-19-DKO-25S-090-S-OR-B-M-W3-SW41
					.58	.74	2.15	5.00	2.30	1.61	87.76	
19	3/4"	-12	M30x2	-10	14,8	18,8	54,5	127,0	58,0	36	38,3	HCI-19-DKO-20S-090-S-OR-B-B-W3
					.58	.74	2.15	5.00	2.28	1.42	84.45	
19	3/4"	-12	M42x2	-16	14,8	18,8	67,0	139,5	71,5	50	66,1	HCI-19-DKO-30S-090-S-OR-B-B-W3
					.58	.74	2.64	5.49	2.81	1.97	145.75	
25	1"	-16	M42x2	-16	19,5	25,1	68,0	147,5	74,0	50	71,9	HCI-25-DKO-30S-090-S-OR-B-M-W3
					.77	.99	2.68	5.81	2.91	1.97	158.43	
25	1"	-16	M36x2	-12	19,5	25,1	70,0	149,5	71,0	46	74,1	HCI-25-DKO-25S-090-S-OR-B-B-W3
					.77	.99	2.76	5.89	2.80	1.81	163.39	
25	1"	-16	M52x2	-20	19,5	25,1	80,5	160,0	82,5	60	111,0	HCI-25-DKO-38S-090-S-OR-B-B-W3
					.77	.99	3.17	6.30	3.25	2.36	244.64	
31	1 1/4"	-20	M52x2	-20	25,0	31,8	84,5	162,5	87,0	60	115,2	HCI-31-DKO-38S-090-S-OR-B-M-W3
					.98	1.25	3.33	6.40	3.43	2.36	254.02	
31	1 1/4"	-20	M42x2	-16	25,0	31,8	83,0	161,0	82,0	50	108,9	HCI-31-DKO-30S-090-S-OR-B-B-W3
					.98	1.25	3.27	6.34	3.23	1.97	240.12	
38	1 1/2"	-24	M52x2	-20	31,0	38,3	99,0	192,0	100,5	60	168,2	HCI-38-DKO-38S-090-S-OR-B-B-W3
					1.22	1.51	3.90	7.56	3.96	2.36	370.88	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 92-95

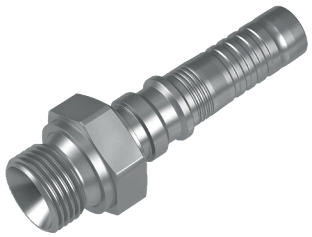
 **Straight Version** Page 147

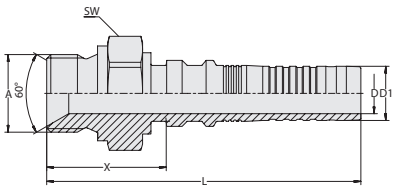
 **45° Version** Page 148

 **ECOVOS Version** Pages 34-35

 **ECOVOS VA Version** Page 112

Straight Insert with Male BSPP Thread and 60° Conical Bore
Type AGR





Insert Type	with Pull-Out Protection (Interlock)
Connection Type	Male BSPP Thread
Sealing Type	60° Conical Bore
Standard	ISO 8434-6, BS 5200
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating

D

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
10	3/8"	-06	G 3/8"	-06	6,5	9,6	29,0	70,5	22	6,6	HCI-10-AGR-06-M-W3
					.26	.38	1.14	2.78	.87	14.55	
12	1/2"	-08	G1/2"	-08	9,0	12,5	32,5	79,5	27	11,0	HCI-12-AGR-08-M-W3
					.35	.49	1.28	3.13	1.06	24.14	
16	5/8"	-10	G5/8"	-10	12,0	16,0	35,5	93,0	30	15,0	HCI-16-AGR-10-M-W3
					.47	.63	1.40	3.66	1.18	33.08	
19	3/4"	-12	G 3/4"	-12	14,8	18,8	37,0	109,5	32	19,7	HCI-19-AGR-12-M-W3
					.58	.74	1.46	4.31	1.26	43.44	
25	1"	-16	G 1"	-16	19,5	25,1	41,5	121,0	41	35,7	HCI-25-AGR-16-M-W3
					.77	.99	1.63	4.76	1.61	78.61	
31	1 1/4"	-20	G 1 1/4"	-20	25,0	31,8	44,0	122,0	50	54,5	HCI-31-AGR-20-M-W3
					.98	1.25	1.73	4.80	1.97	120.17	
38	1 1/2"	-24	G 1 1/2"	-24	31,0	38,3	49,5	142,5	55	73,9	HCI-38-AGR-24-M-W3
					1.22	1.51	1.95	5.61	2.17	162.84	
51	2"	-32	G 2"	-32	40,0	50,6	58,0	154,0	70	140,3	HCI-51-AGR-32-M-W3
					1.57	1.99	2.28	6.06	2.76	309.25	

Related Products and Accessories

 **Swage Ferrules** Pages 140-141

 **ECOVOS Version** Page 47

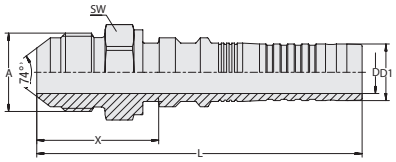
 **ECOVOS VA Version** Page 116

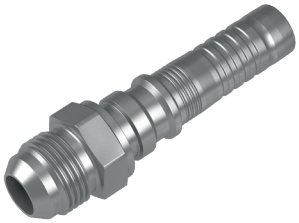
Straight Insert with Male UN/UNF Thread and 74° Taper Type AGJ

Insert Type with Pull-Out Protection (Interlock)

Connection Type Male UN/UNF Thread
Sealing Type 74° Taper
Standard ISO 8434-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
10	3/8"	-06	9/16"-18UNF	-06	6,5	9,6	26,5	68,0	17	4,2	HCI-10-AGJ-06-M-W3
					.26	.38	1.04	2.68	.67	.16	
10	3/8"	-06	3/4"-16 UNF	-08	6,5	9,6	30,5	72,0	22	6,4	HCI-10-AGJ-08-M-W3
					.26	.38	1.20	2.83	.87	.25	
12	1/2"	-08	3/4"-16 UNF	-08	9,0	12,5	30,5	77,0	22	7,6	HCI-12-AGJ-08-M-W3
					.35	.49	1.20	3.03	.87	.30	
12	1/2"	-08	7/8"-14 UNF	-10	9,0	12,5	33,5	80,5	24	10,0	HCI-12-AGJ-10-M-W3
					.35	.49	1.32	3.17	.94	.39	
16	5/8"	-10	7/8"-14 UNF	-10	12,0	16,0	34,5	92,0	24	11,3	HCI-16-AGJ-10-M-W3
					.47	.63	1.36	3.62	.94	.44	
16	5/8"	-10	1.1/16"-12 UN	-12	12,0	16,0	39,5	97,0	30	17,6	HCI-16-AGJ-12-M-W3
					.47	.63	1.56	3.82	1.18	.69	
19	3/4"	-12	1.1/16"-12 UN	-12	14,8	18,8	39,5	112,0	30	18,6	HCI-19-AGJ-12-M-W3
					.58	.74	1.56	4.41	1.18	.73	
25	1"	-16	1.5/16"-12 UN	-16	19,5	25,1	42,0	121,5	36	31,3	HCI-25-AGJ-16-M-W3
					.77	.99	1.65	4.78	1.42	1.23	
31	1 1/4"	-20	1.5/8"-12 UN	-20	25,0	31,8	46,5	124,5	46	51,4	HCI-31-AGJ-20-M-W3
					.98	1.25	1.83	4.90	1.81	2.02	
38	1 1/2"	-24	1.7/8"-12 UN	-24	31,0	38,3	52,0	145,0	50	69,0	HCI-38-AGJ-24-M-W3
					1.22	1.51	2.05	5.71	1.97	2.72	
51	2"	-32	2 1/2"-12 UN	-32	40,0	50,6	64,5	160,5	65	143,4	HCI-51-AGJ-32-M-W3
					1.57	1.99	2.54	6.32	2.56	5.65	

Related Products and Accessories

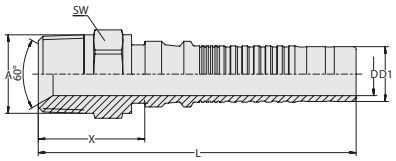
 **Swage Ferrules** Pages 140-141

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 **ECOVOS VA Version** Page 117

Straight Insert with Male NPTF Thread and 60° Conical Bore
Type AGN





Insert Type with Pull-Out Protection (Interlock)

Connection Type Male NPTF Thread
Sealing Type Tapered Thread and 60° Conical Bore
Standard SAE J 516

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

D

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
19	3/4"	-12	3/4"-14 NPTF	-12	14,8	18,8	36,5	109,0	27	17,5	HCI-19-AGN-12-M-W3
					.58	.74	1.44	4.29	1.06	38.59	
25	1"	-16	1"-11,5 NPTF	-16	19,5	25,1	41,5	121,0	36	32,1	HCI-25-AGN-16-M-W3
					.77	.99	1.63	4.76	1.42	70.67	
25	1"	-16	1 1/4"-11,5 NPTF	-20	19,5	25,1	45,5	125,0	46	48,7	HCI-25-AGN-20-M-W3
					.77	.99	1.79	4.92	1.81	107.38	
31	1 1/4"	-20	1 1/4"-11,5 NPTF	-20	25,0	31,8	44,5	122,5	46	52,1	HCI-31-AGN-20-M-W3
					.98	1.25	1.75	4.82	1.81	114.77	
31	1 1/4"	-20	2"-11,5 NPTF	-32	25,0	31,8	53,5	131,5	65	102,6	HCI-31-AGN-32-M-W3
					.98	1.25	2.11	5.18	2.56	226.12	
38	1 1/2"	-24	1 1/2"-11,5 NPTF	-24	31,0	38,3	47,5	140,5	50	67,3	HCI-38-AGN-24-M-W3
					1.22	1.51	1.87	5.53	1.97	148.29	
51	2"	-32	2"-11,5 NPTF	-32	40,0	50,6	53,5	149,5	65	134,0	HCI-51-AGN-32-M-W3
					1.57	1.99	2.11	5.89	2.56	295.47	

Related Products and Accessories

 **Swage Ferrules** Pages 140-141

 **ECOVOS Version** Page 56

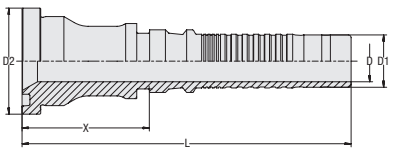
 **ECOVOS VA Version** Page 120

Straight Insert with SAE Flange Adaptor Type SFL (3000 PSI Series)

Insert Type with Pull-Out Protection (Interlock)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	per 100	
12	1/2"	-08	1/2"	-08	9,0	12,5	30,2	43,5	90,5	12,7	HCI-12-SFL-08-M-W3
					.35	.49	1.19	1.71	3.56	27.89	
12	1/2"	-08	3/4"	-12	9,0	12,5	38,1	44,0	91,0	18,9	HCI-12-SFL-12-M-W3
					.35	.49	1.50	1.73	3.58	41.67	
16	5/8"	-10	3/4"	-12	12,0	16,0	38,1	45,0	102,5	20,6	HCI-16-SFL-12-M-W3
					.47	.63	1.50	1.77	4.04	45.42	
16	5/8"	-10	1"	-16	12,0	16,0	44,5	45,5	103,0	26,2	HCI-16-SFL-16-M-W3
					.47	.63	1.75	1.79	4.06	57.77	
19	3/4"	-12	3/4"	-12	14,8	18,8	38,1	45,5	118,0	23,4	HCI-19-SFL-12-M-W3
					.58	.74	1.50	1.79	4.65	51.49	
19	3/4"	-12	1"	-16	14,8	18,8	44,5	40,5	113,0	25,1	HCI-19-SFL-16-B-W3
					.58	.74	1.75	1.59	4.45	55.35	
25	1"	-16	1"	-16	19,5	25,1	44,5	50,0	129,5	37,2	HCI-25-SFL-16-M-W3
					.77	.99	1.75	1.97	5.10	81.92	
25	1"	-16	3/4"	-12	19,5	25,1	38,1	57,5	137,0	31,7	HCI-25-SFL-12-B-W3
					.77	.99	1.50	2.26	5.39	69.90	
25	1"	-16	1 1/4"	-20	19,5	25,1	50,8	46,5	126,0	39,1	HCI-25-SFL-20-B-W3
					.77	.99	2.00	1.83	4.96	86.22	
31	1 1/4"	-20	1 1/4"	-20	25,0	31,8	50,8	66,5	144,5	57,9	HCI-31-SFL-20-M-W3
					.98	1.25	2.00	2.62	5.69	127.56	
31	1 1/4"	-20	1"	-16	25,0	31,8	44,5	64,0	142,0	49,7	HCI-31-SFL-16-B-W3
					.98	1.25	1.75	2.52	5.59	109.59	
31	1 1/4"	-20	1 1/2"	-24	25,0	31,8	60,3	49,0	127,0	58,9	HCI-31-SFL-24-B-W3
					.98	1.25	2.37	1.93	5.00	129.76	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,3	60,3	56,0	149,0	70,1	HCI-38-SFL-24-M-W3
					1.22	1.51	2.37	2.20	5.87	154.46	
38	1 1/2"	-24	1 1/4"	-20	31,0	38,3	50,8	62,0	155,0	66,4	HCI-38-SFL-20-B-W3
					1.22	1.51	2.00	2.44	6.10	146.41	
38	1 1/2"	-24	2"	-32	31,0	38,3	71,4	50,0	143,0	85,7	HCI-38-SFL-32-B-W3
					1.22	1.51	2.81	1.97	5.63	188.97	
51	2"	-32	2"	-32	40,0	50,6	71,4	69,5	165,5	138,4	HCI-51-SFL-32-M-W3
					1.57	1.99	2.81	2.74	6.52	305.06	

Related Products and Accessories


Swage Ferrules Pages 140-141


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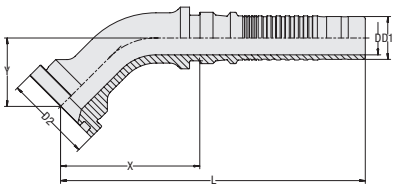

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45° Elbow Insert with SAE Flange Adaptor
Type SFL 45° (3000 PSI Series)





Insert Type	with Pull-Out Protection (Interlock)
Connection Type	SAE Flange Adaptor
Sealing Type	O-Ring Face Seal (O-Ring not included in delivery.)
Standard	SAE J 518, ISO 6162-1
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating

D

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
12	1/2"	-08	1/2"	-08	9,0	12,5	30,2	48,0	95,0	20,5	11,7	HCI-12-SFL-08-045-M-W3
					.35	.49	1.19	1.89	3.74	.81	25.80	
12	1/2"	-08	3/4"	-12	9,0	12,5	38,1	53,5	100,5	26,0	16,7	HCI-12-SFL-12-045-M-W3
					.35	.49	1.50	2.11	3.96	1.02	36.71	
16	5/8"	-10	3/4"	-12	12,0	16,0	38,1	59,5	117,0	28,5	21,3	HCI-16-SFL-12-045-M-W3
					.47	.63	1.50	2.34	4.61	1.12	46.97	
19	3/4"	-12	3/4"	-12	14,8	18,8	38,1	61,0	133,5	30,0	25,3	HCI-19-SFL-12-045-M-W3
					.58	.74	1.50	2.40	5.26	1.18	55.68	
19	3/4"	-12	1"	-16	14,8	18,8	44,5	74,5	147,0	29,5	37,9	HCI-19-SFL-16-045-B-W3
					.58	.74	1.75	2.93	5.79	1.16	83.57	
25	1"	-16	1"	-16	-16	25,1	44,5	80,5	160,0	35,0	46,0	HCI-25-SFL-16-045-M-W3
					-.63	.99	1.75	3.17	6.30	1.38	101.32	
25	1"	-16	3/4"	-12	19,5	25,1	38,1	78,0	157,5	30,0	48,1	HCI-25-SFL-12-045-B-W3
					.77	.99	1.50	3.07	6.20	1.18	106.06	
25	1"	-16	1 1/4"	-20	19,5	25,1	50,8	88,0	167,5	33,5	62,9	HCI-25-SFL-20-045-B-W3
					.77	.99	2.00	3.46	6.59	1.32	138.69	
31	1 1/4"	-20	1 1/4"	-20	25,0	31,8	50,8	106,0	184,0	38,5	78,9	HCI-31-SFL-20-045-M-W3
					.98	1.25	2.00	4.17	7.24	1.52	173.97	
31	1 1/4"	-20	1"	-16	25,0	31,8	44,5	90,5	168,5	33,5	75,3	HCI-31-SFL-16-045-B-W3
					.98	1.25	1.75	3.56	6.63	1.32	166.04	
31	1 1/4"	-20	1 1/2"	-24	25,0	31,8	60,3	108,5	186,5	43,0	104,0	HCI-31-SFL-24-045-B-W3
					.98	1.25	2.37	4.27	7.34	1.69	229.32	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,3	60,3	125,0	218,0	52,5	113,2	HCI-38-SFL-24-045-M-W3
					1.22	1.51	2.37	4.92	8.58	2.07	249.50	
38	1 1/2"	-24	1 1/4"	-20	31,0	38,3	50,8	107,0	200,0	41,5	112,4	HCI-38-SFL-20-045-B-W3
					1.22	1.51	2.00	4.21	7.87	1.63	247.84	
38	1 1/2"	-24	2"	-32	31,0	38,3	71,4	117,0	209,5	46,5	145,9	HCI-38-SFL-32-045-B-W3
					1.22	1.51	2.81	4.61	8.25	1.83	321.60	
51	2"	-32	2"	-32	40,0	50,6	71,4	162,5	258,5	72,5	245,4	HCI-51-SFL-32-045-M-W3
					1.57	1.99	2.81	6.40	10.18	2.85	541.00	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

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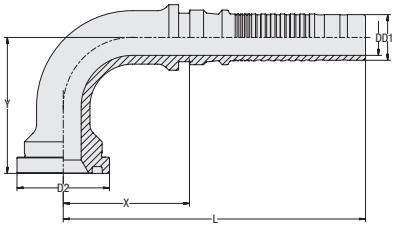
 **ECOVOS VA Version** Page 122

90° Elbow Insert with SAE Flange Adaptor Type SFL 90° (3000 PSI Series)

Insert Type with Pull-Out Protection (Interlock)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
12	1/2"	-08	1/2"	-08	9,0	12,5	30,2	40,5	87,5	42,5	13,1	HCI-12-SFL-08-090-M-W3
					.35	.49	1.19	1.59	3.44	1.67	28.89	
12	1/2"	-08	3/4"	-12	9,0	12,5	38,1	49,0	96,0	51,0	19,1	HCI-12-SFL-12-090-M-W3
					.35	.49	1.50	1.93	3.78	2.01	42.12	
16	5/8"	-10	3/4"	-12	12,0	16,0	38,1	48,0	105,5	55,5	23,7	HCI-16-SFL-12-090-M-W3
					.47	.63	1.50	1.89	4.15	2.19	52.26	
19	3/4"	-12	3/4"	-12	14,8	18,8	38,1	52,0	124,5	56,0	29,1	HCI-19-SFL-12-090-M-W3
					.58	.74	1.50	2.05	4.90	2.20	64.17	
19	3/4"	-12	1"	-16	14,8	18,8	44,5	67,0	139,5	63,5	44,0	HCI-19-SFL-16-090-B-W3
					.58	.74	1.75	2.64	5.49	2.50	96.91	
25	1"	-16	1"	-16	19,5	25,1	44,5	69,0	148,5	72,0	53,8	HCI-25-SFL-16-090-M-W3
					.77	.99	1.75	2.72	5.85	2.83	118.63	
25	1"	-16	3/4"	-12	19,5	25,1	38,1	70,0	149,5	64,5	53,9	HCI-25-SFL-12-090-B-W3
					.77	.99	1.50	2.76	5.89	2.54	118.85	
25	1"	-16	1 1/4"	-20	19,5	25,1	50,8	80,5	160,0	74,0	74,1	HCI-25-SFL-20-090-B-W3
					.77	.99	2.00	3.17	6.30	2.91	163.39	
31	1 1/4"	-20	1 1/4"	-20	25,0	31,8	50,8	95,0	173,0	86,0	95,0	HCI-31-SFL-20-090-M-W3
					.98	1.25	2.00	3.74	6.81	3.39	209.48	
31	1 1/4"	-20	1"	-16	25,0	31,8	44,5	83,0	161,0	74,0	86,1	HCI-31-SFL-16-090-B-W3
					.98	1.25	1.75	3.27	6.34	2.91	189.85	
31	1 1/4"	-20	1 1/2"	-24	25,0	31,8	60,3	99,0	177,0	94,0	125,2	HCI-31-SFL-24-090-B-W3
					.98	1.25	2.37	3.90	6.97	3.70	276.07	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,3	60,3	108,0	201,0	108,0	135,4	HCI-38-SFL-24-090-M-W3
					1.22	1.51	2.37	4.25	7.91	4.25	298.56	
38	1 1/2"	-24	1 1/4"	-20	31,0	38,3	50,8	99,0	192,0	92,0	133,6	HCI-38-SFL-20-090-B-W3
					1.22	1.51	2.00	3.90	7.56	3.62	294.59	
38	1 1/2"	-24	2"	-32	31,0	38,3	71,4	107,0	200,0	103,0	172,3	HCI-38-SFL-32-090-B-W3
					1.22	1.51	2.81	4.21	7.87	4.06	379.92	
51	2"	-32	2"	-32	40,0	50,6	71,4	141,0	237,0	150,0	303,9	HCI-51-SFL-32-090-M-W3
					1.57	1.99	2.81	5.55	9.33	5.91	669.99	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

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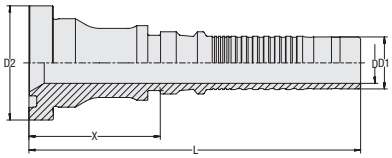
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Straight Insert with SAE Flange Adaptor
Type SFS (6000 PSI Series)





Insert Type	with Pull-Out Protection (Interlock)
Connection Type	SAE Flange Adaptor
Sealing Type	O-Ring Face Seal (O-Ring not included in delivery.)
Standard	SAE J 518, ISO 6162-2
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating

D

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	per 100	
12	1/2"	-08	1/2"	-08	9,0	12,5	31,8	43,5	90,5	13,4	HCI-12-SFS-08-M-W3
					.35	.49	1.25	1.71	3.56	29.55	
12	1/2"	-08	3/4"	-12	9,0	12,5	41,3	47,0	94,0	21,4	HCI-12-SFS-12-M-W3
					.35	.49	1.63	1.85	3.70	47.19	
16	5/8"	-10	1/2"	-08	12,0	16,0	31,8	50,5	108,0	16,0	HCI-16-SFS-08-M-W3
					.47	.63	1.25	1.99	4.25	35.28	
16	5/8"	-10	3/4"	-12	12,0	16,0	41,3	44,5	102,0	23,5	HCI-16-SFS-12-M-W3
					.47	.63	1.63	1.75	4.02	51.71	
16	5/8"	-10	1"	-16	12,0	16,0	47,6	45,5	103,0	28,4	HCI-16-SFS-16-M-W3
					.47	.63	1.87	1.79	4.06	62.62	
19	3/4"	-12	3/4"	-12	14,8	18,8	41,3	47,5	120,0	26,1	HCI-19-SFS-12-M-W3
					.58	.74	1.63	1.87	4.72	57.55	
19	3/4"	-12	1"	-16	14,8	18,8	47,6	48,5	121,0	35,7	HCI-19-SFS-16-M-W3
					.58	.74	1.87	1.91	4.76	78.61	
25	1"	-16	1"	-16	19,5	25,1	47,6	51,5	131,0	40,2	HCI-25-SFS-16-M-W3
					.77	.99	1.87	2.03	5.16	88.64	
25	1"	-16	3/4"	-12	19,5	25,1	41,3	50,5	130,0	35,8	HCI-25-SFS-12-M-W3
					.77	.99	1.63	1.99	5.12	78.83	
25	1"	-16	1 1/4"	-20	19,5	25,1	54,0	58,0	137,5	54,3	HCI-25-SFS-20-M-W3
					.77	.99	2.13	2.28	5.41	119.62	
31	1 1/4"	-20	1 1/4"	-20	25,0	31,8	54,0	69,5	147,5	63,0	HCI-31-SFS-20-M-W3
					.98	1.25	2.13	2.74	5.81	138.80	
31	1 1/4"	-20	1"	-16	25,0	31,8	47,6	70,0	148,0	59,8	HCI-31-SFS-16-M-W3
					.98	1.25	1.87	2.76	5.83	131.75	
31	1 1/4"	-20	1 1/2"	-24	25,0	31,8	63,5	74,0	152,0	93,5	HCI-31-SFS-24-M-W3
					.98	1.25	2.50	2.91	5.98	206.06	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,3	63,5	69,0	162,0	89,2	HCI-38-SFS-24-M-W3
					1.22	1.51	2.50	2.72	6.38	196.69	
38	1 1/2"	-24	1 1/4"	-20	31,0	38,3	54,0	69,0	162,0	76,9	HCI-38-SFS-20-M-W3
					1.22	1.51	2.13	2.72	6.38	169.45	
38	1 1/2"	-24	2"	-32	31,0	38,3	79,4	69,0	162,0	131,0	HCI-38-SFS-32-M-W3
					1.22	1.51	3.13	2.72	6.38	288.74	
51	2"	-32	2"	-32	40,0	50,6	79,4	72,5	168,5	174,6	HCI-51-SFS-32-M-W3
					1.57	1.99	3.13	2.85	6.63	384.88	

Related Products and Accessories

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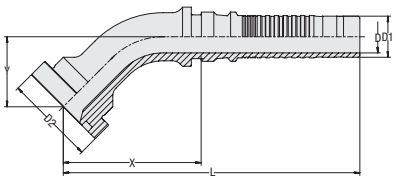
 **ECOVOS VA Version** Page 124

45° Elbow Insert with SAE Flange Adaptor Type SFS 45° (6000 PSI Series)

Insert Type with Pull-Out Protection (Interlock)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
12	1/2"	-08	1/2"	-08	9,0	12,5	31,8	48,0	95,0	22,5	12,6	HCI-12-SFS-08-045-M-W3
					.35	.49	1.25	1.89	3.74	.89	27.78	
12	1/2"	-08	3/4"	-12	9,0	12,5	41,3	53,5	100,5	27,0	20,3	HCI-12-SFS-12-045-M-W3
					.35	.49	1.63	2.11	3.96	1.06	44.76	
16	5/8"	-10	1/2"	-08	12,0	16,0	31,8	57,5	115,0	22,5	16,3	HCI-16-SFS-08-045-M-W3
					.47	.63	1.25	2.26	4.53	.89	35.94	
16	5/8"	-10	3/4"	-12	12,0	16,0	41,3	60,0	117,5	25,0	23,1	HCI-16-SFS-12-045-M-W3
					.47	.63	1.63	2.36	4.63	.98	50.83	
16	5/8"	-10	1"	-16	12,0	16,0	47,6	63,5	121,0	29,0	29,3	HCI-16-SFS-16-045-M-W3
					.47	.63	1.87	2.50	4.76	1.14	64.61	
20	3/4"	-12	3/4"	-12	14,8	18,8	41,3	63,0	135,5	32,0	28,6	HCI-19-SFS-12-045-M-W3
					.58	.74	1.63	2.48	5.33	1.26	63.06	
20	3/4"	-12	1"	-16	14,8	18,8	47,6	67,5	140,0	31,0	35,6	HCI-19-SFS-16-045-M-W3
					.58	.74	1.87	2.66	5.51	1.22	78.50	
25	1"	-16	3/4"	-12	19,5	25,1	41,3	90,0	169,0	37,0	45,6	HCI-25-SFS-12-045-M-W3
					.77	.99	1.63	3.54	6.65	1.46	100.55	
25	1"	-16	1"	-16	19,5	25,1	47,6	81,5	161,5	36,0	49,0	HCI-25-SFS-16-045-M-W3
					.77	.99	1.87	3.21	6.36	1.42	108.05	
25	1"	-16	1 1/4"	-20	19,5	25,1	54,0	88,0	167,5	42,5	60,9	HCI-25-SFS-20-045-M-W3
					.77	.99	2.13	3.46	6.59	1.67	134.28	
31	1 1/4"	-20	1"	-16	25,0	31,8	47,6	107,0	185,0	47,0	78,6	HCI-31-SFS-16-045-M-W3
					.98	1.25	1.87	4.21	7.28	1.85	173.31	
31	1 1/4"	-20	1 1/4"	-20	25,0	31,8	54,0	98,5	176,5	41,5	80,9	HCI-31-SFS-20-045-M-W3
					.98	1.25	2.13	3.88	6.95	1.63	178.38	
31	1 1/4"	-20	1 1/2"	-24	25,0	31,8	63,5	108,0	186,0	47,5	101,0	HCI-31-SFS-24-045-M-W3
					.98	1.25	2.50	4.25	7.32	1.87	222.59	
38	1 1/2"	-24	1 1/4"	-20	31,0	38,3	54,0	126,0	219,0	51,5	108,2	HCI-38-SFS-20-045-M-W3
					1.22	1.51	2.13	4.96	8.62	2.03	238.58	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,3	63,5	120,0	213,0	47,0	120,0	HCI-38-SFS-24-045-M-W3
					1.22	1.51	2.50	4.72	8.39	1.85	264.60	
38	1 1/2"	-24	2"	-32	31,0	38,3	79,4	131,5	224,5	53,5	161,2	HCI-38-SFS-32-045-M-W3
					1.22	1.51	3.13	5.18	8.84	2.11	355.45	
51	2"	-32	2"	-32	40,0	50,6	79,4	160,0	256,0	70,0	272,0	HCI-51-SFS-32-045-M-W3
					1.57	1.99	3.13	6.30	10.08	2.76	599.76	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


Swage Ferrules Pages 140-141


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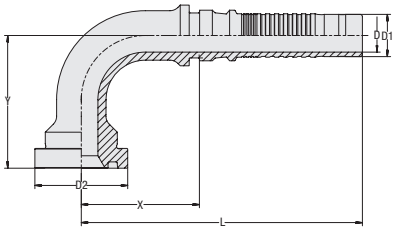

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90° Elbow Insert with SAE Flange Adaptor
Type SFS 90° (6000 PSI Series)





Insert Type with Pull-Out Protection (Interlock)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

D

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
12	1/2"	-08	1/2"	-08	9,0	12,5	31,8	39,0	86,0	45,0	14,2	HCI-12-SFS-08-090-M-W3
					.35	.49	1.25	1.54	3.39	1.77	31.31	
12	1/2"	-08	3/4"	-12	9,0	12,5	41,3	41,5	88,5	50,0	22,0	HCI-12-SFS-12-090-M-W3
					.35	.49	1.63	1.63	3.48	1.97	48.51	
16	5/8"	-10	1/2"	-08	12,0	16,0	31,8	50,5	108,0	48,0	18,7	HCI-16-SFS-08-090-M-W3
					.47	.63	1.25	1.99	4.25	1.89	41.12	
16	5/8"	-10	3/4"	-12	12,0	16,0	41,3	50,5	108,0	52,5	25,5	HCI-16-SFS-12-090-M-W3
					.47	.63	1.63	1.99	4.25	2.07	56.23	
16	5/8"	-10	1"	-16	12,0	16,0	47,6	50,5	108,0	57,0	31,7	HCI-16-SFS-16-090-M-W3
					.47	.63	1.87	1.99	4.25	2.24	69.90	
19	3/4"	-12	3/4"	-12	14,8	18,8	41,3	52,5	125,0	59,0	32,6	HCI-19-SFS-12-090-M-W3
					.58	.74	1.63	2.07	4.92	2.32	71.77	
19	3/4"	-12	1"	-16	14,8	18,8	47,6	54,5	127,0	61,5	39,7	HCI-19-SFS-16-090-M-W3
					.58	.74	1.87	2.15	5.00	2.42	87.54	
25	1"	-16	3/4"	-12	19,5	25,1	41,3	69,0	148,5	70,5	50,2	HCI-25-SFS-12-090-M-W3
					.77	.99	1.63	2.72	5.85	2.78	110.69	
25	1"	-16	1"	-16	19,5	25,1	47,6	69,0	148,5	73,0	56,2	HCI-25-SFS-16-090-M-W3
					.77	.99	1.87	2.72	5.85	2.87	123.92	
25	1"	-16	1 1/4"	-20	19,5	25,1	54,0	68,5	148,0	81,5	67,8	HCI-25-SFS-20-090-M-W3
					.77	.99	2.13	2.70	5.83	3.21	149.50	
31	1 1/4"	-20	1"	-16	25,0	31,8	47,6	93,0	171,0	95,0	95,4	HCI-31-SFS-16-090-M-W3
					.98	1.25	1.87	3.66	6.73	3.74	210.36	
31	1 1/4"	-20	1 1/4"	-20	25,0	31,8	54,0	91,0	169,0	85,0	97,2	HCI-31-SFS-20-090-M-W3
					.98	1.25	2.13	3.58	6.65	3.35	214.33	
31	1 1/4"	-20	1 1/2"	-24	25,0	31,8	63,5	89,5	167,5	97,0	116,7	HCI-31-SFS-24-090-M-W3
					.98	1.25	2.50	3.52	6.59	3.82	257.21	
38	1 1/2"	-24	1 1/4"	-20	31,0	38,3	54,0	111,2	204,0	108,0	131,7	HCI-38-SFS-20-090-M-W3
					1.22	1.51	2.13	4.38	8.03	4.25	290.40	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,3	63,5	105,0	198,0	99,0	141,5	HCI-38-SFS-24-090-M-W3
					1.22	1.51	2.50	4.13	7.80	3.90	312.01	
38	1 1/2"	-24	2"	-32	31,0	38,3	79,4	105,0	198,0	113,0	182,5	HCI-38-SFS-32-090-M-W3
					1.22	1.51	3.13	4.13	7.80	4.45	402.41	
51	2"	-32	2"	-32	40,0	50,6	79,4	136,0	234,0	150,0	326,2	HCI-51-SFS-32-090-M-W3
					1.57	1.99	3.13	5.35	9.21	5.91	719.27	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 140-141

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 **ECOVOS Version** Page 63

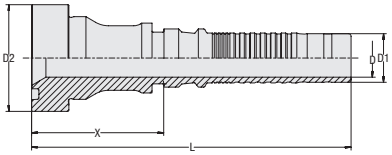
 **ECOVOS VA Version** Page 126

Straight Insert with SAE Flange Adaptor Type SFC (9000 PSI Series)

Insert Type with Pull-Out Protection (Interlock)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard Caterpillar

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	per 100	
19	3/4"	-12	3/4"	-12	14,8	18,8	41,3	51,0	123,5	30,4	HCI-19-SFC-12-M-W3
					.58	.74	1.63	2.01	4.86	67.03	
19	3/4"	-12	1"	-16	19,5	25,1	47,6	56,5	129,0	40,0	HCI-19-SFC-16-M-W3
					.77	.99	1.87	2.22	5.08	88.20	
25	1"	-16	1"	-16	19,5	25,1	47,6	55,0	134,5	45,0	HCI-25-SFC-16-M-W3
					.77	.99	1.87	2.17	5.30	99.23	
25	1"	-16	3/4"	-12	19,5	25,1	41,3	56,5	136,0	40,5	HCI-25-SFC-12-M-W3
					.77	.99	1.63	2.22	5.35	89.30	
25	1"	-16	1 1/4"	-20	25,0	31,8	54,0	51,5	131,0	55,4	HCI-25-SFC-20-M-W3
					.98	1.25	2.13	2.03	5.16	122.05	
31	1 1/4"	-20	1 1/4"	-20	25,0	31,8	54,0	72,5	150,5	67,9	HCI-31-SFC-20-M-W3
					.98	1.25	2.13	2.85	5.93	149.61	
31	1 1/4"	-20	1"	-16	19,5	25,1	47,6	73,0	151,0	63,7	HCI-31-SFC-16-M-W3
					.77	.99	1.87	2.87	5.94	140.35	
31	1 1/4"	-20	1 1/2"	-24	25,0	31,8	63,5	75,5	153,5	95,6	HCI-31-SFC-24-M-W3
					.98	1.25	2.50	2.97	6.04	210.69	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,3	63,5	71,0	164,0	92,7	HCI-38-SFC-24-M-W3
					1.22	1.51	2.50	2.80	6.46	204.29	
38	1 1/2"	-24	1 1/4"	-20	31,0	38,3	54,0	70,0	163,0	78,1	HCI-38-SFC-20-B-W3
					1.22	1.51	2.13	2.76	6.42	172.10	

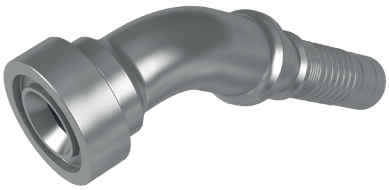
Related Products and Accessories

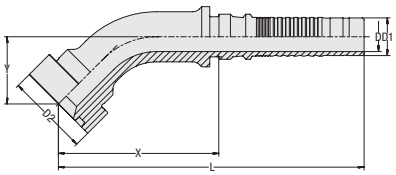

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90° Version Page 161

45° Elbow Insert with SAE Flange Adaptor
Type SFC 45° (9000 PSI Series)





Insert Type with Pull-Out Protection (Interlock)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard Caterpillar

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

D

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
19	3/4"	-12	3/4"	-12	14,8	18,8	41,3	80,0	152,5	33,5	41,4	HCI-19-SFC-12-045-M-W3
					.58	.74	1.63	3.15	6.00	1.32	91.29	
19	3/4"	-12	1"	-16	14,8	18,8	47,6	82,0	154,5	35,0	48,6	HCI-19-SFC-16-045-M-W3
					.58	.74	1.87	3.23	6.08	1.38	107.05	
25	1"	-16	3/4"	-12	19,5	25,1	41,3	96,0	175,5	37,5	54,9	HCI-25-SFC-12-045-M-W3
					.77	.99	1.63	3.78	6.91	1.48	121.05	
25	1"	-16	1"	-16	19,5	25,1	47,6	94,5	174,0	37,0	62,3	HCI-25-SFC-16-045-M-W3
					.77	.99	1.87	3.72	6.85	1.46	137.37	
25	1"	-16	1 1/4"	-20	19,5	25,1	54,0	97,5	177,0	40,0	71,3	HCI-25-SFC-20-045-M-W3
					.77	.99	2.13	3.84	6.97	1.57	157.11	
31	1 1/4"	-20	1"	-16	25,0	31,8	47,6	107,0	185,0	45,0	80,2	HCI-31-SFC-16-045-M-W3
					.98	1.25	1.87	4.21	7.28	1.77	176.84	
31	1 1/4"	-20	1 1/4"	-20	25,0	31,8	54,0	105,5	183,5	46,5	88,0	HCI-31-SFC-20-045-M-W3
					.98	1.25	2.13	4.15	7.22	1.83	194.04	
31	1 1/4"	-20	1 1/2"	-24	25,0	31,8	63,5	117,5	185,5	52,0	104,1	HCI-31-SFC-24-045-M-W3
					.98	1.25	2.50	4.63	7.30	2.05	229.43	
38	1 1/2"	-24	1 1/2"	-24	31,0	38,3	63,5	127,0	220,0	52,0	128,2	HCI-38-SFC-24-045-M-W3
					1.22	1.51	2.50	5.00	8.66	2.05	282.68	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


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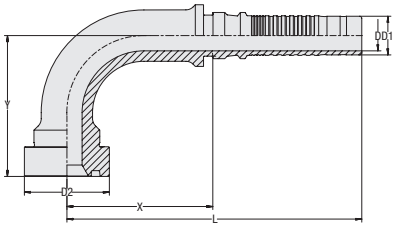

90° Version Page 161

90° Elbow Insert with SAE Flange Adaptor Type SFC 90° (9000 PSI Series)

Insert Type with Pull-Out Protection (Interlock)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard Caterpillar

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
19	3/4"	-12	3/4"	-12	14,8	18,8	41,3	71,0	143,5	68,5	49,2	HCI-19-SFC-12-090-M-W3
					.58	.74	1.63	2.80	5.65	2.70	108.49	
19	3/4"	-12	1"	-16	14,8	18,8	47,6	71,5	144,0	71,0	56,5	HCI-19-SFC-16-090-M-W3
					.58	.74	1.87	2.81	5.67	2.80	124.47	
25	1"	-16	3/4"	-12	19,5	25,1	41,3	82,5	162,0	81,5	66,1	HCI-25-SFC-12-090-M-W3
					.77	.99	1.63	3.25	6.38	3.21	145.75	
25	1"	-16	1"	-16	19,5	25,1	47,6	82,5	162,0	82,0	74,0	HCI-25-SFC-16-090-M-W3
					.77	.99	1.87	3.25	6.38	3.23	163.17	
25	1"	-16	1 1/4"	-20	19,5	25,1	54,0	85,5	165,0	83,5	83,3	HCI-25-SFC-20-090-M-W3
					.77	.99	2.13	3.37	6.50	3.29	183.57	
31	1 1/4"	-20	1"	-16	25,0	31,8	47,6	92,5	170,5	95,5	97,4	HCI-31-SFC-16-090-M-W3
					.98	1.25	1.87	3.64	6.71	3.76	214.66	
31	1 1/4"	-20	1 1/4"	-20	25,0	31,8	54,0	91,5	169,5	96,0	105,6	HCI-31-SFC-20-090-M-W3
					.98	1.25	2.13	3.60	6.67	3.78	232.74	
31	1 1/4"	-20	1 1/2"	-24	25,0	31,8	63,5	93,0	171,0	96,0	120,3	HCI-31-SFC-24-090-M-W3
					.98	1.25	2.50	3.66	6.73	3.78	265.15	
38	1 1/2"	-24	1 1/4"	-20	31,0	38,3	54,0	99,0	192,0	100,0	142,2	HCI-38-SFC-20-090-B-W3
					1.22	1.51	2.13	3.90	7.56	3.94	313.55	

Dimension Y ± 2,5 mm / .10 in

D

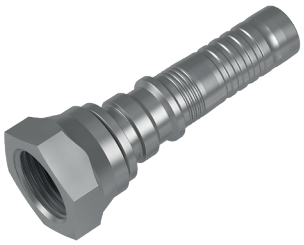
Related Products and Accessories

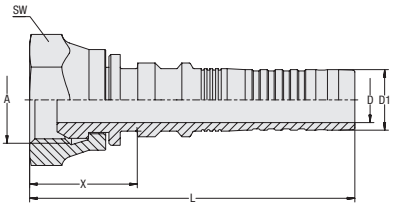

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Straight Version Page 159


45° Version Page 160

Straight Insert with Female BSPP Thread and 60° Taper
Type DKR





Insert Type with Pull-Out Protection (Interlock)

Connection Type Female BSPP Nut Thread
Sealing Type 60° Taper
Standard ISO 8434-6, BS 5200

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

D

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
16	5/8"	-10	G 5/8"	-10	12,0	16,0	24,0	81,5	30	14,7	HCI-16-DKR-10-C-M-W3
					.47	.63	.94	3.21	1.18	32.41	
16	5/8"	-10	G 1/2"	-08	12,0	16,0	22,0	79,5	27	12,4	HCI-16-DKR-08-C-M-W3
					.47	.63	.87	3.13	1.06	27.34	
16	5/8"	-10	G 3/4"	-12	12,0	16,0	23,0	80,5	32	16,4	HCI-16-DKR-12-C-M-W3
					.47	.63	.91	3.17	1.26	36.05	
19	3/4"	-12	G 3/4"	-12	14,8	18,8	28,0	100,5	32	19,2	HCI-19-DKR-12-C-M-W3
					.58	.74	1.10	3.96	1.26	42.34	
25	1"	-16	G 1"	-16	19,5	25,1	31,0	110,5	41	34,7	HCI-25-DKR-16-C-M-W3
					.77	.99	1.22	4.35	1.61	76.51	
31	1 1/4"	-20	G 1 1/4"	-20	25,0	31,8	33,5	111,5	50	55,0	HCI-31-DKR-20-W-M-W3
					.98	1.25	1.32	4.39	1.97	121.28	

Related Products and Accessories


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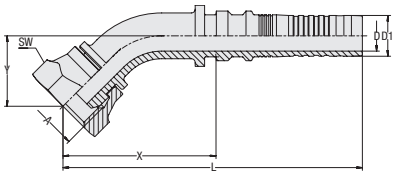

ECOVOS VA Version Page 127

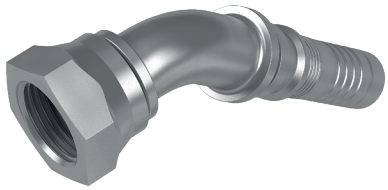
45° Elbow Insert with Female BSPP Thread and 60° Taper Type DKR 45°

Insert Type with Pull-Out Protection (Interlock)

Connection Type Female BSPP Nut Thread
Sealing Type 60° Taper
Standard ISO 8434-6, BS 5200

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
16	5/8"	-10	G 5/8"	-10	12,0	16,0	59,5	117,0	26,5	30	20,8	HCI-16-DKR-10-045-C-M-W3
					.47	.63	2.34	4.61	1.04	1.18	45.75	
16	5/8"	-10	G 3/4"	-12	12,0	16,0	56,5	114,0	23,5	32	21,0	HCI-16-DKR-12-045-C-M-W3
					.47	.63	2.22	4.49	.93	1.26	46.19	
19	3/4"	-12	G 3/4"	-12	14,8	18,8	67,0	139,5	35,5	32	28,7	HCI-19-DKR-12-045-C-M-W3
					.58	.74	2.64	5.49	1.40	1.26	63.28	
25	1"	-16	G 1"	-16	19,5	25,1	84,5	164,0	45,5	41	53,5	HCI-25-DKR-16-045-C-M-W3
					.77	.99	3.33	6.46	1.79	1.61	117.97	
31	1 1/4"	-20	G 1 1/4"	-20	25,0	31,8	104,0	182,0	53,0	50	95,1	HCI-31-DKR-20-045-W-M-W3
					.98	1.25	4.09	7.17	2.09	1.97	209.70	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

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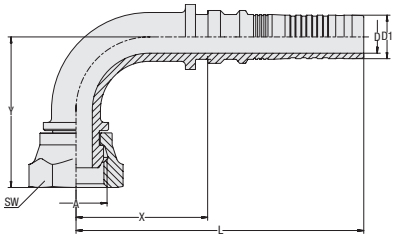
 **90° Version** Page 129

 **ECOVOS Version** Page 65

 **ECOVOS VA Version** Page 128

90° Elbow Insert with Female BSPP Thread and 60° Taper
Type DKR 90°





Insert Type with Pull-Out Protection (Interlock)

Connection Type Female BSPP Nut Thread
Sealing Type 60° Taper
Standard ISO 8434-6, BS 5200

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

D

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
16	5/8"	-10	G 5/8"	-10	12,0	16,0	48,0	105,5	54,0	30	23,1	HCI-16-DKR-10-090-C-M-W3
					.47	.63	1.89	4.15	2.13	1.18	50.94	
16	5/8"	-10	G 3/4"	-12	12,0	16,0	44,0	101,5	52,0	32	23,1	HCI-16-DKR-12-090-C-M-W3
					.47	.63	1.73	4.00	2.05	1.26	50.94	
19	3/4"	-12	G 3/4"	-12	14,8	18,8	52,5	125,0	63,5	32	32,4	HCI-19-DKR-12-090-C-M-W3
					.58	.74	2.07	4.92	2.50	1.26	71.44	
25	1"	-16	G 1"	-16	19,5	25,1	65,0	144,5	83,0	41	60,6	HCI-25-DKR-16-090-C-M-W3
					.77	.99	2.56	5.69	3.27	1.61	133.62	
31	1 1/4"	-20	G 1 1/4"	-20	25,0	31,8	84,5	162,5	101,0	50	111,0	HCI-31-DKR-20-090-W-M-W3
					.98	1.25	3.33	6.40	3.98	1.97	244.64	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

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 **45° Version** Page 163

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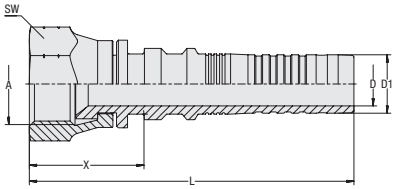
 **ECOVOS VA Version** Page 129

Straight Insert with Female UN/UNF Thread and 74° Conical Bore Type DKJ

Insert Type with Pull-Out Protection (Interlock)

Connection Type Female UN/UNF Nut Thread
Sealing Type 74° Conical Bore
Standard ISO 8434-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
10	3/8"	-06	9/16"-18 UNF	-06	6,5	9,6	15,5	57,0	19	4,5	HCI-10-DKJ-06-C-M-W3
					.26	.38	.61	2.24	.75	9.92	
10	3/8"	-06	3/4"-16 UNF	-08	6,5	9,6	21,0	62,5	24	6,9	HCI-10-DKJ-08-C-M-W3
					.26	.38	.83	2.46	.94	15.21	
12	1/2"	-08	3/4" -16 UNF	-08	9,0	12,5	17,5	64,0	24	6,8	HCI-12-DKJ-08-C-M-W3
					.35	.49	.69	2.52	.94	14.99	
12	1/2"	-08	7/8"-14 UNF	-10	9,0	12,5	22,0	69,0	27	10,0	HCI-12-DKJ-10-C-M-W3
					.35	.49	.87	2.72	1.06	22.05	
16	5/8"	-10	7/8"-14 UNF	-10	12,0	16,0	21,5	79,0	27	12,3	HCI-16-DKJ-10-C-M-W3
					.47	.63	.85	3.11	1.06	27.01	
16	5/8"	-10	1.1/16"-12 UN	-12	12,0	16,0	23,5	81,0	32	15,6	HCI-16-DKJ-12-C-M-W3
					.47	.63	.93	3.19	1.26	34.29	
19	3/4"	-12	1.1/16"-12 UN	-12	14,8	18,8	23,0	95,5	32	18,3	HCI-19-DKJ-12-C-M-W3
					.58	.74	.91	3.76	1.26	40.24	
25	1"	-16	1.5/16"-12 UN	-16	19,5	25,1	22,5	102,5	41	32,0	HCI-25-DKJ-16-C-M-W3
					.77	.99	.89	4.04	1.61	70.56	
31	1 1/4"	-20	1.5/8"-12 UN	-20	25,0	31,8	25,5	103,5	50	55,2	HCI-31-DKJ-20-W-M-W3
					.98	1.25	1.00	4.07	1.97	121.72	
38	1 1/2"	-24	1.7/8"-12 UN	-24	31,0	38,3	32,5	125,5	60	86,7	HCI-38-DKJ-24-W-M-W3
					1.22	1.51	1.28	4.94	2.36	191.17	
51	2"	-32	2.1/2"-12 UN	-32	40,0	50,6	41,0	137,0	75	168,3	HCI-51-DKJ-32-W-M-W3
					1.57	1.99	1.61	5.39	2.95	371.10	

D

Related Products and Accessories


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45° Version Page 166


90° Version Page 167

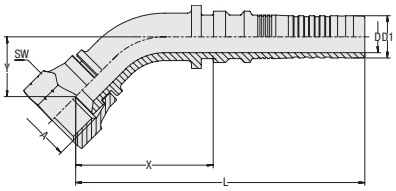

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ECOVOS VA Version Page 132


POWERVOS Version Page 181

45° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore
Type DKJ 45°





Insert Type with Pull-Out Protection (Interlock)

Connection Type Female UN/UNF Nut Thread
Sealing Type 74° Conical Bore
Standard ISO 8434-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

D

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
12	1/2"	-08	3/4"-16 UNF	-08	9,0	12,5	44,5	91,5	20,0	24	10,3	HCI-12-DKJ-08-045-C-M-W3
					.35	.49	1.75	3.60	.79	.94	22.71	
12	1/2"	-08	7/8"-14 UNF	-10	9,0	12,5	44,0	91,0	18,0	27	12,8	HCI-12-DKJ-10-045-C-M-W3
					.35	.49	1.73	3.58	.71	1.06	28.11	
16	5/8"	-10	7/8"-14 UNF	-10	12,0	16,0	59,0	116,5	25,0	27	18,5	HCI-16-DKJ-10-045-C-M-W3
					.47	.63	2.32	4.59	.98	1.06	40.79	
16	5/8"	-10	1 1/16"-12 UN	-12	12,0	16,0	56,5	114,0	23,5	32	20,4	HCI-16-DKJ-12-045-C-M-W3
					.47	.63	2.22	4.49	.93	1.26	44.87	
19	3/4"	-12	1 1/16"-12 UN	-12	14,8	18,8	64,5	136,5	31,0	32	28,3	HCI-19-DKJ-12-045-C-M-W3
					.58	.74	2.54	5.37	1.22	1.26	62.29	
25	1"	-16	1 5/16"-12 UN	-16	19,5	25,1	83,5	163,0	33,0	41	51,1	HCI-25-DKJ-16-045-C-M-W3
					.77	.99	3.29	6.42	1.30	1.61	112.68	
31	1 1/4"	-20	1 5/8"-12 UN	-20	25,0	31,8	107,5	185,5	44,0	50	93,4	HCI-31-DKJ-20-045-W-M-W3
					.98	1.25	4.23	7.30	1.73	1.97	205.95	
38	1 1/2"	-24	1 7/8"-12 UN	-24	31,0	38,3	132,0	225,0	52,0	60	146,3	HCI-38-DKJ-24-045-W-M-W3
					1.22	1.51	5.20	8.86	2.05	2.36	322.59	
51	2"	-32	2 1/2"-12 UN	-32	40,0	50,6	167,5	263,5	79,5	70	303,6	HCI-51-DKJ-32-045-W-M-W3
					1.57	1.99	6.59	10.37	3.13	2.76	669.44	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories


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90° Version Page 167

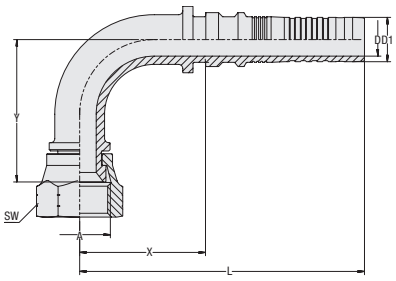

ECOVOS VA Version Page 133

90° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore
Type DKJ 90°

Insert Type with Pull-Out Protection (Interlock)

Connection Type Female UN/UNF Nut Thread
Sealing Type 74° Conical Bore
Standard ISO 8434-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
12	1/2"	-08	3/4"-16 UNF	-08	9,0	12,5	38,5	85,5	41,5	24	12,0	HCI-12-DKJ-08-090-C-M-W3
					.35	.49	1.52	3.37	1.63	.94	26.46	
12	1/2"	-08	7/8"-14 UNF	-10	9,0	12,5	38,5	85,5	41,0	27	14,5	HCI-12-DKJ-10-090-C-M-W3
					.35	.49	1.52	3.37	1.61	1.06	31.97	
16	5/8"	-10	7/8"-14 UNF	-10	12,0	16,0	51,5	109,0	51,0	27	21,0	HCI-16-DKJ-10-090-C-M-W3
					.47	.63	2.03	4.29	2.01	1.06	46.31	
16	5/8"	-10	1 1/16"-12 UN	-12	12,0	16,0	50,0	107,5	50,0	32	22,9	HCI-16-DKJ-12-090-C-M-W3
					.47	.63	1.97	4.23	1.97	1.26	50.49	
19	3/4"	-12	1 1/16"-12 UN	-12	14,8	18,8	52,5	125,0	58,5	32	31,7	HCI-19-DKJ-12-090-C-M-W3
					.58	.74	2.07	4.92	2.30	1.26	69.79	
25	1"	-16	1 5/16"-12 UN	-16	19,5	25,1	73,0	152,5	69,0	41	58,1	HCI-25-DKJ-16-090-C-M-W3
					.77	.99	2.87	6.00	2.72	1.61	128.11	
31	1 1/4"	-20	1 5/8"-12 UN	-20	25,0	31,8	88,5	166,5	96,0	50	113,4	HCI-31-DKJ-20-090-W-M-W3
					.98	1.25	3.48	6.56	3.78	1.97	249.94	
38	1 1/2"	-24	1 7/8"-12 UN	-24	31,0	38,3	113,0	206,0	110,5	60	168,9	HCI-38-DKJ-24-090-W-M-W3
					1.22	1.51	4.45	8.11	4.35	2.36	372.42	
51	2"	-32	2 1/2"-12 UN	-32	40,0	50,6	140,5	236,5	158,5	75	362,2	HCI-51-DKJ-32-090-W-M-W3
					1.57	1.99	5.53	9.31	6.24	2.95	798.65	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

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 **Straight Version** Page 165

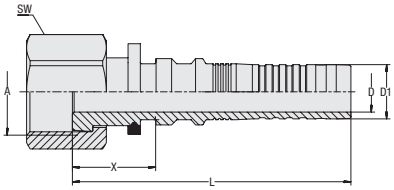
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Straight Insert with Female UN/UNF Thread for O-Ring Face Seal Connection Type ORS





Insert Type	with Pull-Out Protection (Interlock)
Connection Type	Female UN/UNF Nut Thread
Sealing Type	O-Ring Face Seal
Standard	ISO 8434-3
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating

D

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
10	3/8"	-06	11/16"-16 UN	-06	6,5	9,6	20,0	61,5	22	6,4	HCI-10-ORS-06-S-M-W3
					.26	.38	.79	2.42	.87	.25	
10	3/8"	-06	13/16"-16 UN	-08	6,5	9,6	21,5	63,0	27	10,1	HCI-10-ORS-08-S-M-W3
					.26	.38	.85	2.48	1.06	.40	
12	1/2"	-08	13/16"-16 UN	-08	9,0	12,5	19,0	66,0	27	8,8	HCI-12-ORS-08-S-M-W3
					.35	.49	.75	2.60	1.06	.35	
16	5/8"	-10	1"-14 UN	-10	12,0	16,0	24,5	82,0	30	15,1	HCI-16-ORS-10-S-M-W3
					.47	.63	.96	3.23	1.18	.59	
16	5/8"	-10	1 3/16"-12 UN	-12	12,0	16,0	24,5	82,0	36	21,5	HCI-16-ORS-12-S-M-W3
					.47	.63	.96	3.23	1.42	.84	
19	3/4"	-12	1 3/16"-12 UN	-12	14,8	18,8	34,5	107,0	36	25,3	HCI-19-ORS-12-S-M-W3
					.58	.74	1.36	4.21	1.42	1.00	
19	3/4"	-12	1 7/16"-12 UN	-16	14,8	18,8	36,0	108,5	41	33,1	HCI-19-ORS-16-S-M-W3
					.58	.74	1.42	4.27	1.61	1.30	
25	1"	-16	1 7/16"-12 UN	-16	19,5	25,1	36,0	115,5	41	36,5	HCI-25-ORS-16-S-M-W3
					.77	.99	1.42	4.55	1.61	1.44	
31	1 1/4"	-20	1 11/16"-12 UN	-20	25,0	31,8	36,5	114,5	50	55,2	HCI-31-ORS-20-S-M-W3
					.98	1.25	1.44	4.51	1.97	2.17	

Related Products and Accessories

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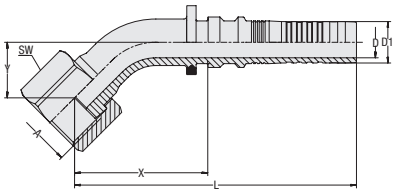
 **ECOVOS VA Version** Page 135

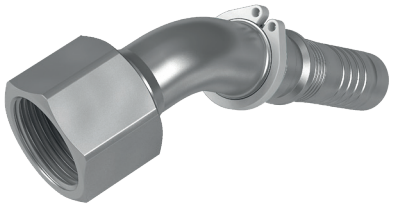
45° Elbow Insert with Female UN/UNF Thread for O-Ring Face Seal Connection Type ORS 45°

Insert Type with Pull-Out Protection (Interlock)

Connection Type Female UN/UNF Nut Thread
Sealing Type O-Ring Face Seal
Standard ISO 8434-3

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
12	1/2"	-08	13/16"-16 UN	-08	9,0	12,5	44,5	91,5	21,5	27	13,9	HCI-12-ORS-08-045-S-M-W3
					.35	.49	1.75	3.60	.85	1.06	30.65	
16	5/8"	-10	1"-14 UN	-10	12,0	16,0	51,5	109,0	21,5	30	19,0	HCI-16-ORS-10-045-S-M-W3
					.47	.63	2.03	4.29	.85	1.18	41.90	
19	3/4"	-12	1 3/16"-12 UN	-12	14,8	18,8	71,0	143,5	29,5	36	29,6	HCI-19-ORS-12-045-S-M-W3
					.58	.74	2.80	5.65	1.16	1.42	65.16	
25	1"	-16	1 7/16"-12 UN	-16	19,5	25,1	86,5	166,0	37,5	41	47,4	HCI-25-ORS-16-045-S-M-W3
					.77	.99	3.41	6.54	1.48	1.61	104.41	
31	1 1/4"	-20	1 11/16"-12 UN	-20	25,0	31,8	106,5	184,5	46,0	50	75,1	HCI-31-ORS-20-045-S-M-W3
					.98	1.25	4.19	7.26	1.81	1.97	165.60	

Dimension Y ± 2,5 mm / .10 in

D

Related Products and Accessories

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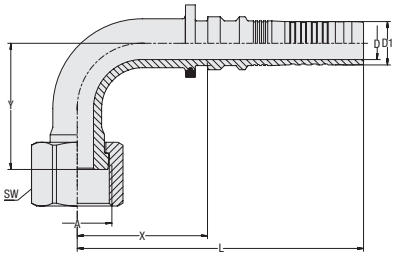
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90° Elbow Insert with Female UN/UNF Thread for O-Ring Face Seal Connection Type ORS 90°





Insert Type with Pull-Out Protection (Interlock)

Connection Type Female UN/UNF Nut Thread
Sealing Type O-Ring Face Seal
Standard ISO 8434-3

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

D

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
12	1/2"	-08	13/16"-16 UN	-08	9,0	12,5	38,5	85,5	42,5	27	15,6	HCI-12-ORS-08-090-S-M-W3
					.35	.49	1.52	3.37	1.67	1.06	34.29	
16	5/8"	-10	1"-14 UN	-10	12,0	16,0	48,0	105,5	46,5	30	21,9	HCI-16-ORS-10-090-S-M-W3
					.47	.63	1.89	4.15	1.83	1.18	48.29	
19	3/4"	-12	1 3/16"-12 UN	-12	14,8	18,8	57,5	130,0	59,5	36	32,1	HCI-19-ORS-12-090-S-M-W3
					.58	.74	2.26	5.12	2.34	1.42	70.67	
25	1"	-16	1 7/16"-12 UN	-16	19,5	25,1	75,5	155,0	75,0	41	53,4	HCI-25-ORS-16-090-S-M-W3
					.77	.99	2.97	6.10	2.95	1.61	117.75	
31	1 1/4"	-20	1 11/16"-12 UN	-20	25,0	31,8	88,0	166,0	94,0	50	84,4	HCI-31-ORS-20-090-S-M-W3
					.98	1.25	3.46	6.54	3.70	1.97	186.10	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

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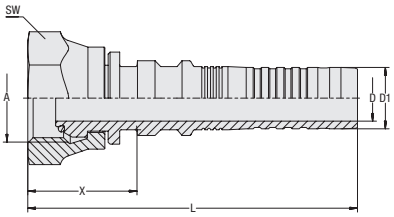
 **ECOVOS Version** Page 80

Straight Insert with Female BSPP Thread and 60° Taper / O-Ring Type DKOR

Insert Type with Pull-Out Protection (Interlock)

Connection Type Female BSPP Nut Thread
Sealing Type 60° Taper with O-Ring
Standard ISO 8434-6, BS 5200

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
10	3/8"	-06	G 3/8"	-06	6,5	9,6	22,5	64,0	22	6,4	HCI-10-DKOR-06-C-OR-B-M-W3
					.26	.38	.89	2.52	.87	14.11	
12	1/2"	-08	G 1/2"	-08	9,0	12,5	25,0	72,0	27	10,9	HCI-12-DKOR-08-C-OR-B-M-W3
					.35	.49	.98	2.83	1.06	24.03	
16	5/8"	-10	G 5/8"	-10	12,0	16,0	24,0	81,5	30	14,5	HCI-16-DKOR-10-C-OR-B-M-W3
					.47	.63	.94	3.21	1.18	31.97	
19	3/4"	-12	G 3/4"	-12	14,8	18,8	28,0	100,5	32	19,1	HCI-19-DKOR-12-C-OR-B-M-W3
					.58	.74	1.10	3.96	1.26	42.12	
25	1"	-16	G 1"	-16	19,5	25,1	31,0	110,5	41	34,5	HCI-25-DKOR-16-C-OR-B-M-W3
					.77	.99	1.22	4.35	1.61	76.07	
31	1 1/4"	-20	G 1 1/4"	-20	25,0	31,8	33,5	111,5	50	54,8	HCI-31-DKOR-20-W-OR-B-M-W3
					.98	1.25	1.32	4.39	1.97	120.83	
38	1 1/2"	-24	G 1 1/2"	-24	31,0	38,3	38,0	131,0	55	76,9	HCI-38-DKOR-24-W-OR-B-M-W3
					1.22	1.51	1.50	5.16	2.17	169.56	
38	1 1/2"	-24	G 2"	-32	31,0	38,3	46,5	144,5	70	131,5	HCI-38-DKOR-32-W-OR-B-M-W3
					1.22	1.51	1.83	5.69	2.76	289.96	
51	2"	-32	G 2"	-32	40,0	50,6	41,0	137,0	70	152,5	HCI-51-DKOR-32-W-OR-B-M-W3
					1.57	1.99	1.61	5.39	2.76	336.15	

Related Products and Accessories

 **Swage Ferrules** Pages 140-141

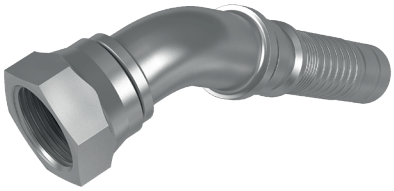
 **45° Version** Page 172

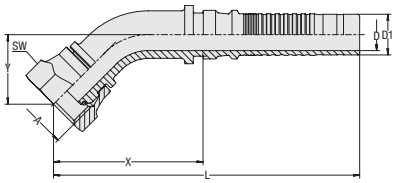
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 **90° Version** Page 173

 **POWERVOS Version** Page 182

45° Elbow Insert with Female BSPP Thread and 60° Taper / O-Ring Type DKOR 45°





Insert Type	with Pull-Out Protection (Interlock)
Connection Type	Female BSPP Nut Thread
Sealing Type	60° Taper with O-Ring
Standard	ISO 8434-6, BS 5200
Material	Carbon Steel
Surface Finishing	Zinc/Nickel-Plating
Sealing Material	NBR (Buna-N®)

D

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
10	3/8"	-06	G 3/8"	-06	6,5	9,6	36,5	78,0	18,0	22	7,7	HCI-10-DKOR-06-045-C-OR-B-M-W3
					.26	.38	1.44	3.07	.71	.87	16.87	
12	1/2"	-08	G 1/2"	-08	9,0	12,5	44,5	91,5	20,0	27	13,1	HCI-12-DKOR-08-045-C-OR-B-M-W3
					.35	.49	1.75	3.60	.79	1.06	28.89	
19	3/4"	-12	G 3/4"	-12	14,8	18,8	67,0	141,0	30,5	32	28,6	HCI-19-DKOR-12-045-C-OR-B-M-W3
					.58	.74	2.64	5.55	1.20	1.26	63.06	
25	1"	-16	G 1"	-16	19,5	25,1	93,0	172,5	42,5	41	55,3	HCI-25-DKOR-16-045-C-OR-B-M-W3
					.77	.99	3.66	6.79	1.67	1.61	121.83	
31	1 1/4"	-20	G 1 1/4"	-20	25,0	31,8	109,0	187,0	47,5	50	98,9	HCI-31-DKOR-20-045-W-OR-B-M-W3
					.98	1.25	4.29	7.36	1.87	1.97	218.07	
38	1 1/2"	-24	G 1 1/2"	-24	31,0	38,3	138,0	231,0	53,0	55	138,4	HCI-38-DKOR-24-045-W-OR-B-M-W3
					1.22	1.51	5.43	9.09	2.09	2.17	305.17	
51	2"	-32	G 2"	-32	40,0	50,6	167,0	263,0	77,0	70	289,4	HCI-51-DKOR-32-045-W-OR-B-M-W3
					1.57	1.99	6.57	10.35	3.03	2.76	638.02	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories

 **Swage Ferrules** Pages 140-141

 **Straight Version** Page 171

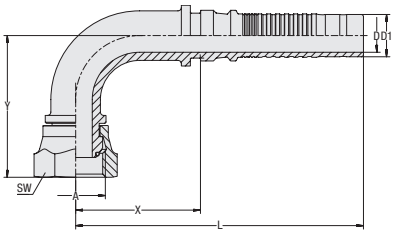
 **90° Version** Page 173

90° Elbow Insert with Female BSPP Thread and 60° Taper / O-Ring Type DKOR 90°

Insert Type with Pull-Out Protection (Interlock)

Connection Type Female BSPP Nut Thread
Sealing Type 60° Taper with O-Ring
Standard ISO 8434-6, BS 5200

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
10	3/8"	-06	G 3/8"	-06	6,5	9,6	31,5	73,0	37,0	22	8,8	HCI-10-DKOR-06-090-C-OR-B-M-W3
					.26	.38	1.24	2.87	1.46	.87	19.29	
12	1/2"	-08	G 1/2"	-08	9,0	12,5	38,5	85,5	41,5	27	14,8	HCI-12-DKOR-08-090-C-OR-B-M-W3
					.35	.49	1.52	3.37	1.63	1.06	32.52	
19	3/4"	-12	G 3/4"	-12	14,8	18,8	55,0	127,5	60,5	32	32,5	HCI-19-DKOR-12-090-C-OR-B-M-W3
					.58	.74	2.17	5.02	2.38	1.26	71.66	
25	1"	-16	G 1"	-16	19,5	25,1	75,5	155,0	85,0	41	63,7	HCI-25-DKOR-16-090-C-OR-B-M-W3
					.77	.99	2.97	6.10	3.35	1.61	140.35	
31	1 1/4"	-20	G 1 1/4"	-20	25,0	31,8	92,0	170,0	96,5	50	114,0	HCI-31-DKOR-20-090-W-OR-B-M-W3
					.98	1.25	3.62	6.69	3.80	1.97	251.37	
38	1 1/2"	-24	G 1 1/2"	-24	31,0	38,3	118,0	211,0	116,0	55	160,4	HCI-38-DKOR-24-090-W-OR-B-M-W3
					1.22	1.51	4.65	8.31	4.57	2.17	353.57	
51	2"	-32	G 2"	-32	40,0	50,6	143,0	239,0	157,0	70	351,4	HCI-51-DKOR-32-090-W-OR-B-M-W3
					1.57	1.99	5.63	9.41	6.18	2.76	774.84	

Dimension Y ± 2,5 mm / .10 in

D

Related Products and Accessories

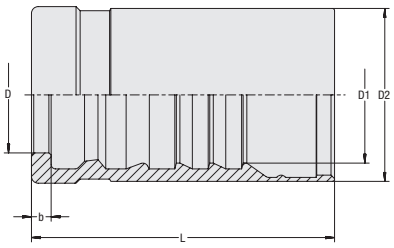
 **Swage Ferrules** Pages 140-141

 **Straight Version** Page 171

 **45° Version** Page 172

Internal & External Skive Swage Ferrule for Spiral Hose R15





Ferrule Type with Pull-Out Protection (Interlock)

Suitable for R15
Standards SAE 100 R15

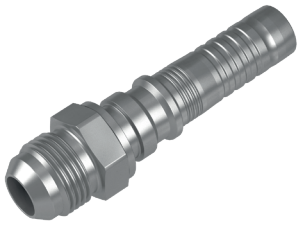
Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

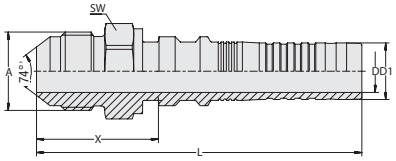
Maximum working pressures depending on the type of the hose connector and the hose type.

D

Hose Size			Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	D	D1	D2	L	b	per 100	
51	2"	-32	87,0	59,5	71,7	107,0	6,4	127,0	HF-8000-51-W3
			3.43	2.34	2.82	4.21	.25	279.92	

Straight Insert with Male UN/UNF Thread and 74° Taper Type AGJ





Insert Type with Pull-Out Protection (Interlock)

Connection Type Male UN/UNF Thread
Sealing Type 74° Taper
Standard ISO 8434-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

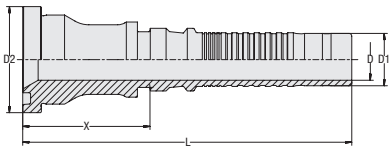
Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
51	2"	-32	2 1/2"-12 UN	-32	40,0	50,8	65,0	173,0	65	160,3	HCM-51-AGJ-32-M-W3
					1.57	2.00	2.56	6.81	2.56	353.35	

Straight Insert with SAE Flange Adaptor Type SFL (3000 PSI Series)

Insert Type with Pull-Out Protection (Interlock)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	per 100	
51	2"	-32	2"	-32	40,0	50,8	71,4	70,0	177,5	143,9	HCM-51-SFL-32-M-W3
					1.57	2.00	2.81	2.76	6.99	317.19	

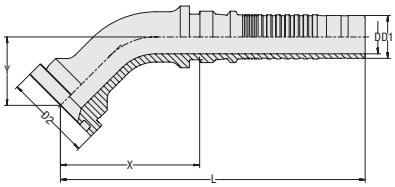
D

45° Elbow Insert with SAE Flange Adaptor Type SFL 45° (3000 PSI Series)

Insert Type with Pull-Out Protection (Interlock)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
51	2"	-32	2"	-32	40,0	50,8	71,4	163,0	207,5	72,5	250,8	HCM-51-SFL-32-045-M-W3
					1.57	2.00	2.81	6.42	8.17	2.85	553.01	

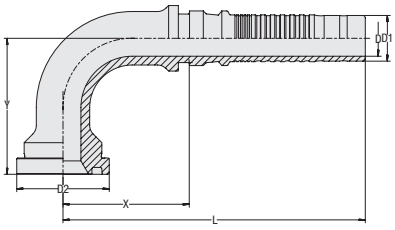
Dimension Y ± 2,5 mm / .10 in

90° Elbow Insert with SAE Flange Adaptor Type SFL 90° (3000 PSI Series)

Insert Type with Pull-Out Protection (Interlock)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-1

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
51	2"	-32	2"	-32	40,0	50,8	79,4	138,5	246,0	150,0	336,5	HCM-51-SFS-32-090-M-W3
					1.57	2.00	3.13	5.45	9.69	5.91	741.87	

Dimension Y ± 2,5 mm / .10 in

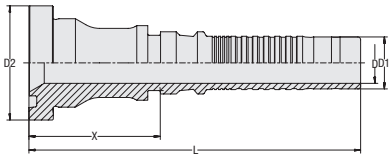
Related Products and Accessories



Swage Ferrule Page 174

Straight Insert with SAE Flange Adaptor
Type SFS (6000 PSI Series)





Insert Type with Pull-Out Protection (Interlock)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-2

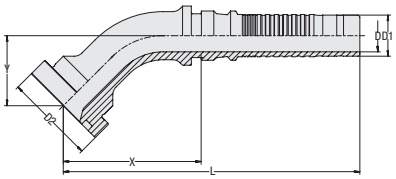
Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

D

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	per 100	
51	2"	-32	2"	-32	40,0	50,8	79,4	73,5	181,0	180,3	HCM-51-SFS-32-M-W3
					1.57	2.00	3.13	2.89	7.13	397.56	

45° Elbow Insert with SAE Flange Adaptor
Type SFS 45° (6000 PSI Series)





Insert Type with Pull-Out Protection (Interlock)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-2

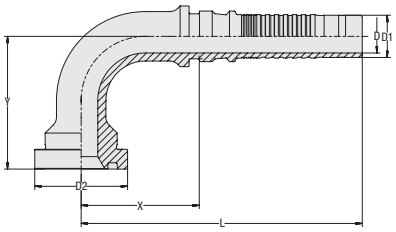
Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
51	2"	-32	2"	-32	40,0	50,8	79,4	160,5	268,0	70,0	277,5	HCM-51-SFS-32-045-M-W3
					1.57	2.00	3.13	6.32	10.55	2.76	611.78	

Dimension Y ± 2,5 mm / .10 in

90° Elbow Insert with SAE Flange Adaptor
Type SFS 90° (6000 PSI Series)





Insert Type with Pull-Out Protection (Interlock)

Connection Type SAE Flange Adaptor
Sealing Type O-Ring Face Seal
(O-Ring not included in delivery.)
Standard SAE J 518, ISO 6162-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating

Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	inch	Dash	D	D1	D2	X	L	Y	per 100	
51	2"	-32	2"	-32	40,0	50,8	79,4	138,5	246,0	150,0	336,5	HCM-51-SFS-32-090-M-W3
					1.57	2.00	3.13	5.45	9.69	5.91	741.87	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories



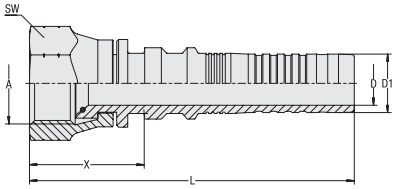
Swage Ferrule Page 174

Straight Insert with Female UN/UNF Thread and 74° Conical Bore/ O-Ring Type DKOJ

Insert Type with Pull-Out Protection (Interlock)

Connection Type Female UN/UNF Nut Thread
Sealing Type 74° Conical Bore
Standard ISO 8434-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
51	2"	-32	2 1/2"-12 UN	-32	40,0	50,8	28,0	135,5	70	135,1	HCM-51-DKOJ-32-W-OR-B-M-W3
					1.57	2.00	1.10	5.33	2.76	297.79	

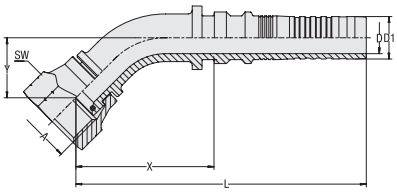
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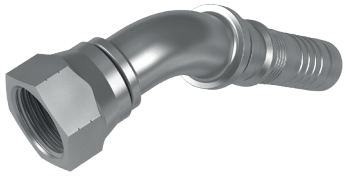
45° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore / O-Ring Type DKOJ 45°

Insert Type with Pull-Out Protection (Interlock)

Connection Type Female UN/UNF Nut Thread
Sealing Type 74° Conical Bore
Standard ISO 8434-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
51	2"	-32	2 1/2"-12 UN	-32	40,0	50,8	156,0	263,5	67,5	70	268,6	HCM-51-DKOJ-32-045-W-OR-B-M-W3
					1.57	2.00	6.14	10.37	2.66	2.76	592.26	

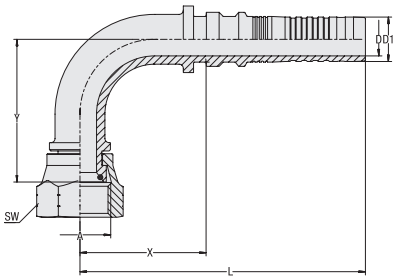
Dimension Y ± 2,5 mm / .10 in

90° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore / O-Ring Type DKOJ 90°

Insert Type with Pull-Out Protection (Interlock)

Connection Type Female UN/UNF Nut Thread
Sealing Type 74° Conical Bore
Standard ISO 8434-2

Material Carbon Steel
Surface Finishing Zinc/Nickel-Plating
Sealing Material NBR (Buna-N®)





Hose Size			Connection Size		Dimensions (mm/in)						Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	Y	SW (Hex)	per 100	
51	2"	-32	2 1/2"-12 UN	-32	40,0	50,8	141,0	248,5	144,0	70	329,4	HCM-51-DKOJ-32-090-W-OR-B-M-W3
					1.57	2.00	5.55	9.78	5.67	2.76	726.33	

Dimension Y ± 2,5 mm / .10 in

Related Products and Accessories



Swage Ferrule Page 174





Straight Insert
with Female Metric Nut Thread and 24° Taper
DKOS (Heavy Series) **180**



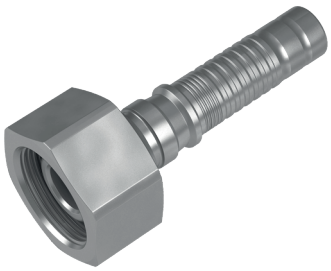
Straight Insert
with Female UN/UNF Thread and 74° Conical Bore
DKJ **181**

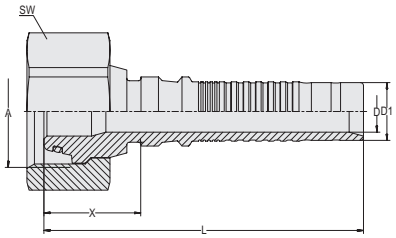


Straight Insert
with Female BSPP Thread and 60° Taper / O-Ring
DKOR **182**

E

Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring Type DKOS (Heavy Series)





Insert Type	with Pull-Out Protection (Interlock) for Hammer/Breaker Operation
Connection Type	Female Metric Nut Thread
Sealing Type	24° Taper with O-Ring
Standard	ISO 8434-1
Material	High-Performance Steel
Surface Finishing	Zinc/Nickel-Plating
Sealing Material	NBR (Buna-N®)

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
19	3/4"	-12	M36x2	-12	13,5	18,8	31,5	104,0	46	39,6	HCP-19-DKO-25S-S-OR-B-M-W3-VP
					.53	.74	1.24	4.09	1.81	87.32	
25	1"	-16	M42x2	-16	17,8	25,1	31,5	111,0	50	52,3	HCP-25-DKO-30S-S-OR-B-M-W3-VP
					.70	.99	1.24	4.37	1.97	115.32	
31	1 1/4"	-20	M52x2	-20	23,0	31,8	36,0	114,0	60	81,5	HCP-31-DKO-38S-S-OR-B-M-W3-VP
					.91	1.25	1.42	4.49	2.36	179.60	

Related Products and Accessories


MULTIVOS Swage Ferrules Pages 140-141


ECOVOS Version Pages 30-31


ECOVOS VA Version Page 108

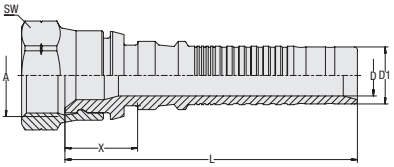

MULTIVOS Version Page 147

Straight Insert with Female UN/UNF Thread and 74° Conical Bore
Type DKJ

Insert Type with Pull-Out Protection (Interlock) for Hammer/Breaker Operation

Connection Type Female UN/UNF Nut Thread
Sealing Type 74° Conical Bore
Standard ISO 8434-2

Material High-Performance Steel
Surface Finishing Zinc/Nickel-Plating





Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
19	3/4"	-12	1 1/16"-12 UN	-12	13,5	18,8	24,0	96,5	32	20,2	HCP-19-DKJ-12-C-M-W3-VP
					.53	.74	.94	3.80	1.26	44.54	
25	1"	-16	1 5/16"-12 UN	-16	17,8	25,1	25,5	105,0	41	36,3	HCP-25-DKJ-16-C-M-W3-VP
					.70	.99	1.00	4.13	1.61	79.93	
25	1"	-16	1 5/8"-12 UN	-20	17,8	25,1	38,5	118,0	50	54,2	HCP-25-DKJ-20-W-M-W3-VP
					.70	.99	1.52	4.65	1.97	119.40	
31	1 1/4"	-20	1 5/8"-12 UN	-20	23,0	31,8	34,0	112,0	50	60,9	HCP-31-DKJ-20-W-M-W3-VP
					.91	1.25	1.34	4.41	1.97	134.28	

E

Related Products and Accessories


MULTIVOS Swage Ferrules Pages 140-141

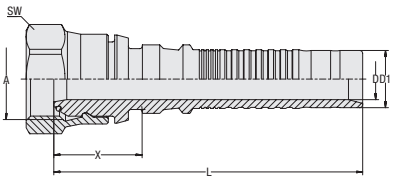

ECOVOS Version Page 69


ECOVOS VA Version Page 132


MULTIVOS Version Page 165

Straight Insert with Female BSPP Thread and 60° Taper / O-Ring Type DKOR





Insert Type	with Pull-Out Protection (Interlock) for Hammer/Breaker Operation
Connection Type	Female BSPP Nut Thread
Sealing Type	60° Taper with O-Ring
Standard	ISO 8434-6, BS 5200
Material	High-Performance Steel
Surface Finishing	Zinc/Nickel-Plating
Sealing Material	NBR (Buna-N®)

Hose Size			Connection Size		Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes
DN	inch	Dash	Thread	Dash	D	D1	X	L	SW (Hex)	per 100	
19	3/4"	-12	G 3/4"	-12	13,5	18,8	29,0	101,5	32	21,75	HCP-19-DKOR-12-C-OR-B-M-W3-VP
					.53	.74	1.14	4.00	1.26	47.96	
25	1"	-16	G 1"	-16	17,8	25,1	30,5	110,0	41	37,55	HCP-25-DKOR-16-C-OR-B-M-W3-VP
					.70	.99	1.20	4.33	1.61	82.80	
31	1 1/4"	-20	G 1 1/4"	-20	23,0	31,8	36,0	114,0	50	61,40	HCP-31-DKOR-20-W-OR-B-M-W3-VP
					.91	1.25	1.42	4.49	1.97	135.39	

E

Related Products and Accessories


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Checking the Operability of Crimped Hose Connectors by Measuring the Reduction of the Nipple Diameter 186

Test Mandrel Kits for the ECOVOS Hose Connector System 187

Test Mandrel Kits for the MULTIVOS Hose Connector System 187

Checking the Operability of Crimped Hose Connectors by Measuring the Reduction of the Nipple Diameter

Fig. 1: Excessive crimping, maximum reduction of nipple diameter exceeded

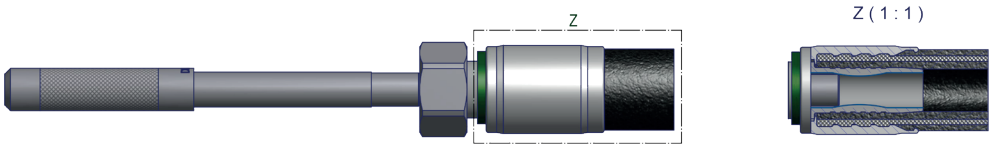


Fig. 1:
The inside nipple diameter is reduced excessively in the sealing zone through the crimp dimension, which is too tight.
ATTENTION: This crimped connector is not functional. This error might result in premature failure of the hose line.
The crimp diameter must be increased by several tenths of a millimeter!

F

Fig. 2: Maximum reduction of nipple diameter reached

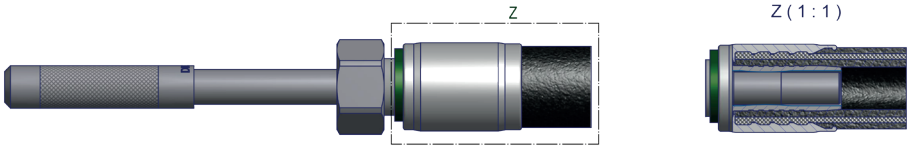


Fig. 2:
This illustration shows the maximum permissible reduction of the inside nipple.
The crimp diameter should not be reduced any further, since otherwise there might be the risk of a premature failure of the hose line!

Fig. 3: Ideal reduction of nipple diameter

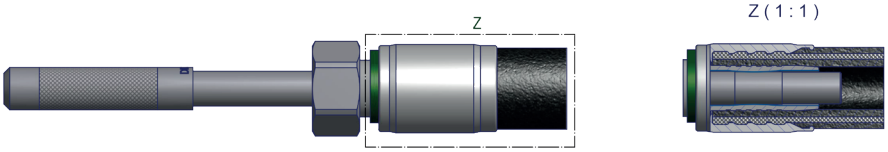


Fig. 3:
The perfect reduction of the nipple diameter has been reached. The crimp diameter should not be changed any more.
It must, however, be checked prior to any change of the hose batch.
The reached crimp dimension will correspond to the standard crimp dimension as determined from the press dimension table.

Checking the Operability of Crimped Hose Connectors by Measuring the Reduction of the Nipple Diameter

Fig. 4: Minimum reduction of nipple diameter

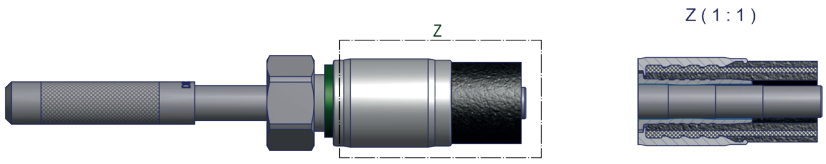


Fig. 4:
This illustration shows the minimum permissible reduction of the inside nipple diameter.
In this case, it is still possible to reduce the crimping diameter by a few tenth of a millimeter!

Fig. 5: No reduction of nipple diameter

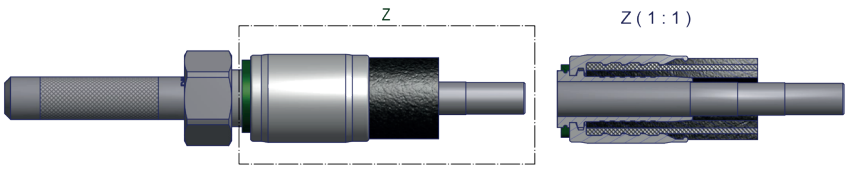


Fig. 5:
Crimping did not cause any reduction of the inside nipple diameter. The crimping diameter is too large.
ATTENTION: This crimped connector is not functional. There is a risk of a leak or of the hose slipping off the crimped connector.
It is necessary to decrease the crimping diameter by several tenths of a millimeter!

Test Mandrel Kits
for the ECOVOS Hose Connector System
(Hose standards EN 853, EN 856, EN 857)

Hose Size			Ordering Codes
DN	inch	Dash	
6	1/4"	-4	HCS-DOR-0625
8	5/16"	-5	
10	3/8"	-6	
12	1/2"	-8	
16	5/8"	-10	
19	3/4"	-12	
25	1"	-16	
31	1 1/4"	-20	HCS-DOR-3151
38	1 1/2"	-24	
51	2"	-32	

Test Mandrel Kits
for the MULTIVOS Hose Connector System
(Hose standards EN 856, SAE 100 R13, SAE 100 R15)

Hose Size			Ordering Codes
DN	inch	Dash	
6	1/4"	-4	HCI-DOR-0651
10	3/8"	-6	
12	1/2"	-8	
16	5/8"	-10	
19	3/4"	-12	
25	1"	-16	
31	1 1/4"	-20	
38	1 1/2"	-24	
51	2"	-32	



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Correct Installation Techniques

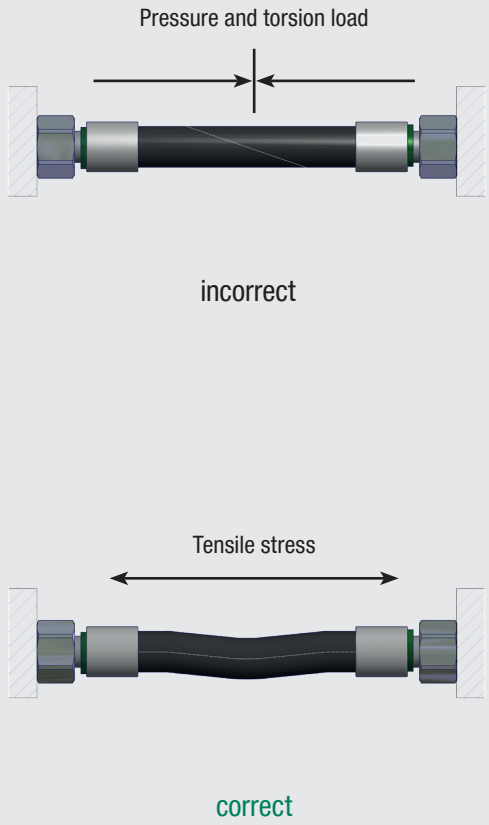


Fig. 1

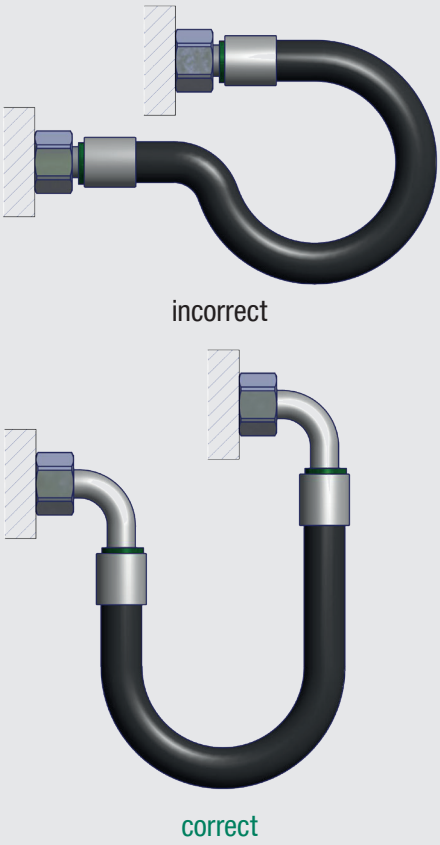


Fig. 2

Avoid twisting the hose. Hoses must be installed in such a way there is no resultant tensile stress except from the own weight of hose (see Fig. 1).

Wherever possible, hoses should be installed in accordance with their natural position, whereby the bending radius must not be less than the minimum permitted bending radius (see Fig. 2).

Hose assemblies –
requirements, installation according to DIN 20066

Hose assemblies must conform to the requirements of the relevant hose and hose connector standards.

However, if the hose and the hose connectors have different nominal pressures, only the lower nominal pressure may be used as the maximum permitted working pressure.

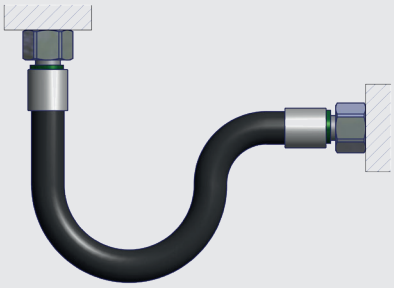
All hose connectors used must conform to the requirements of the dynamic pressure test as per ISO 6803 when interconnected with the hoses to be used in the application.

Hose connectors must conform to the requirements stipulated in DIN 20066 Part 1.

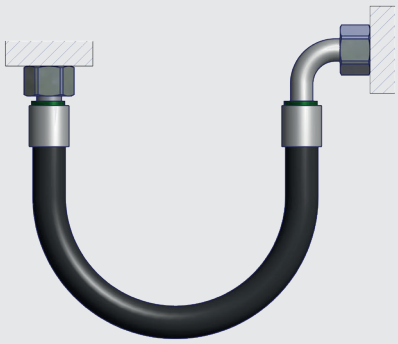
Ready assembled hose assemblies must not display any defects during a test in accordance with ISO 6803. Temporary drip formation between the insert and the socket is permitted during a pressure test with the prescribed test pressure.

All hose assemblies must display the markings of the hose manufacturer, the date of manufacture (year and month) and the max. permitted working pressure for the assembly.

Correct Installation Techniques

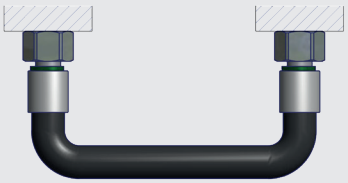


incorrect

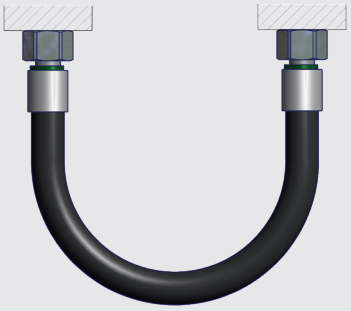


correct

Fig. 3



incorrect



correct

Fig. 4

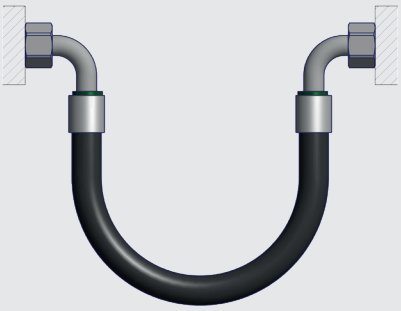
If the hose is to be installed bent, select a length that prevents the design bending of the hose from starting until after a length of approximately 1.5 d.

If necessary, install an anti-kinking device (see Fig 3 and 4).

Correct Installation Techniques



incorrect



correct

Fig. 5



incorrect

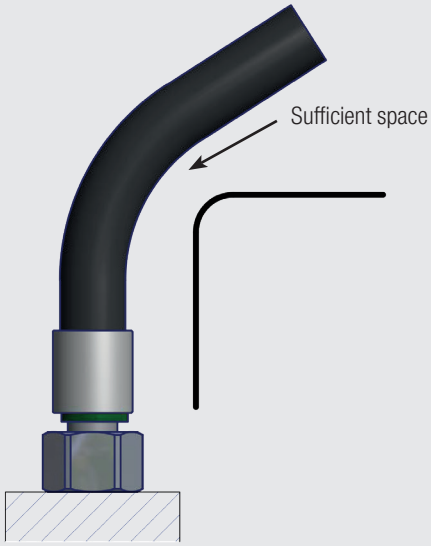


correct

Fig. 6

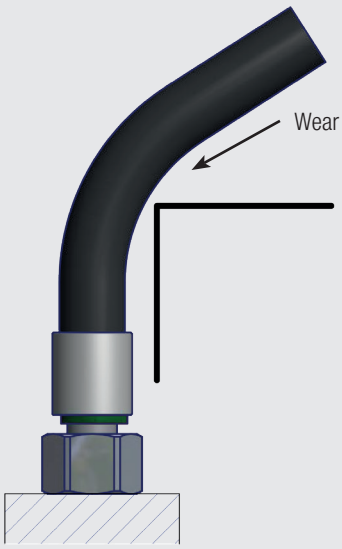
Use suitable hose connectors or connection pieces to prevent additional loads on the hose (see Fig. 5 and 6).

Correct Installation Techniques



correct

Fig. 7



incorrect

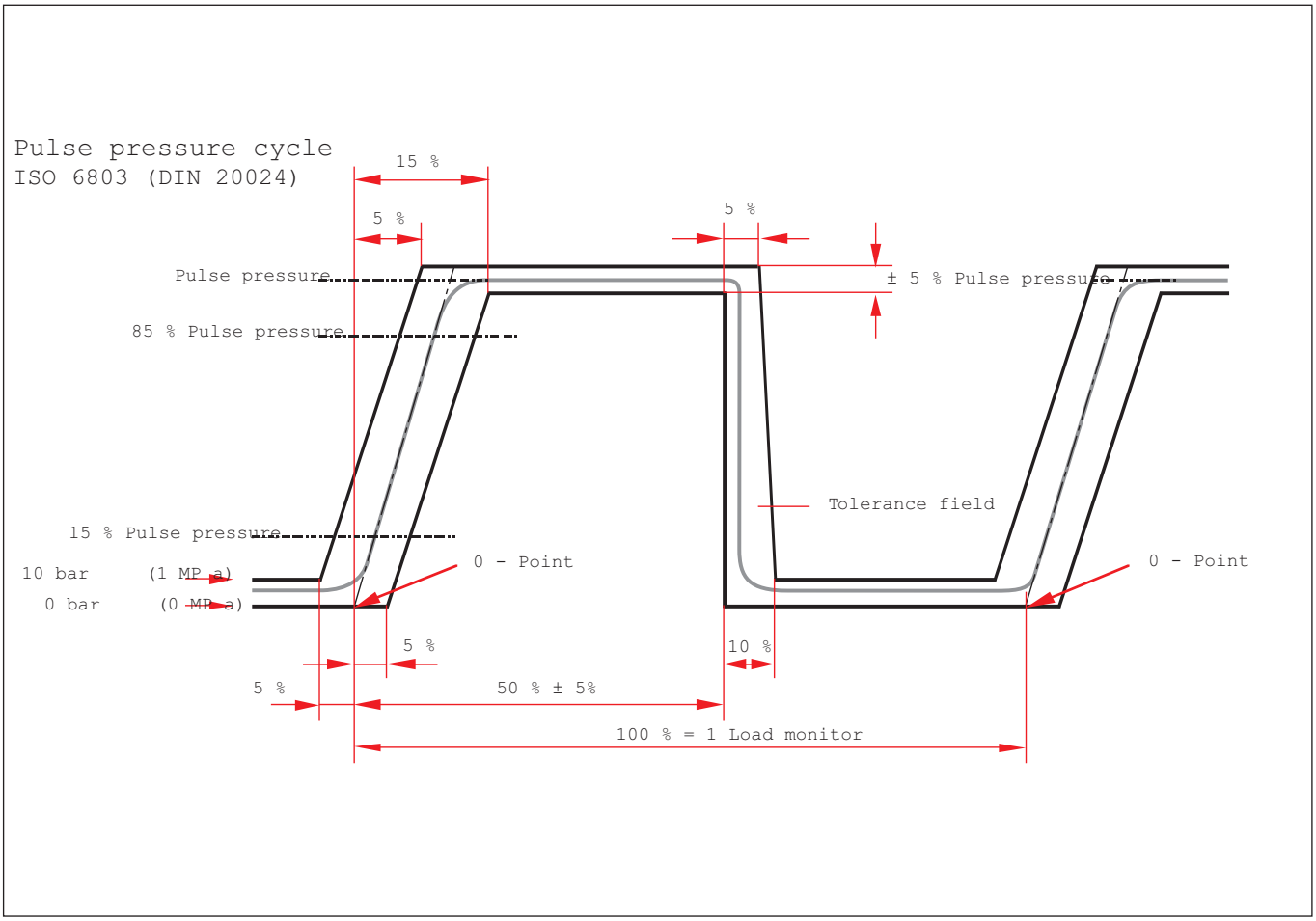
Fig. 8

Avoid external mechanical effects on the hose, and prevent the hoses from rubbing against each other or other components, by installing and attaching them correctly (see Fig. 7).

If necessary, secure the hoses with protective coverings.
Always cover sharp edges (see Fig. 8).

The above requirements, shown here as extracts, must be complied with to guarantee the reliability of hoses and to ensure that their service life is not reduced by additional stress.

Pulse Testing



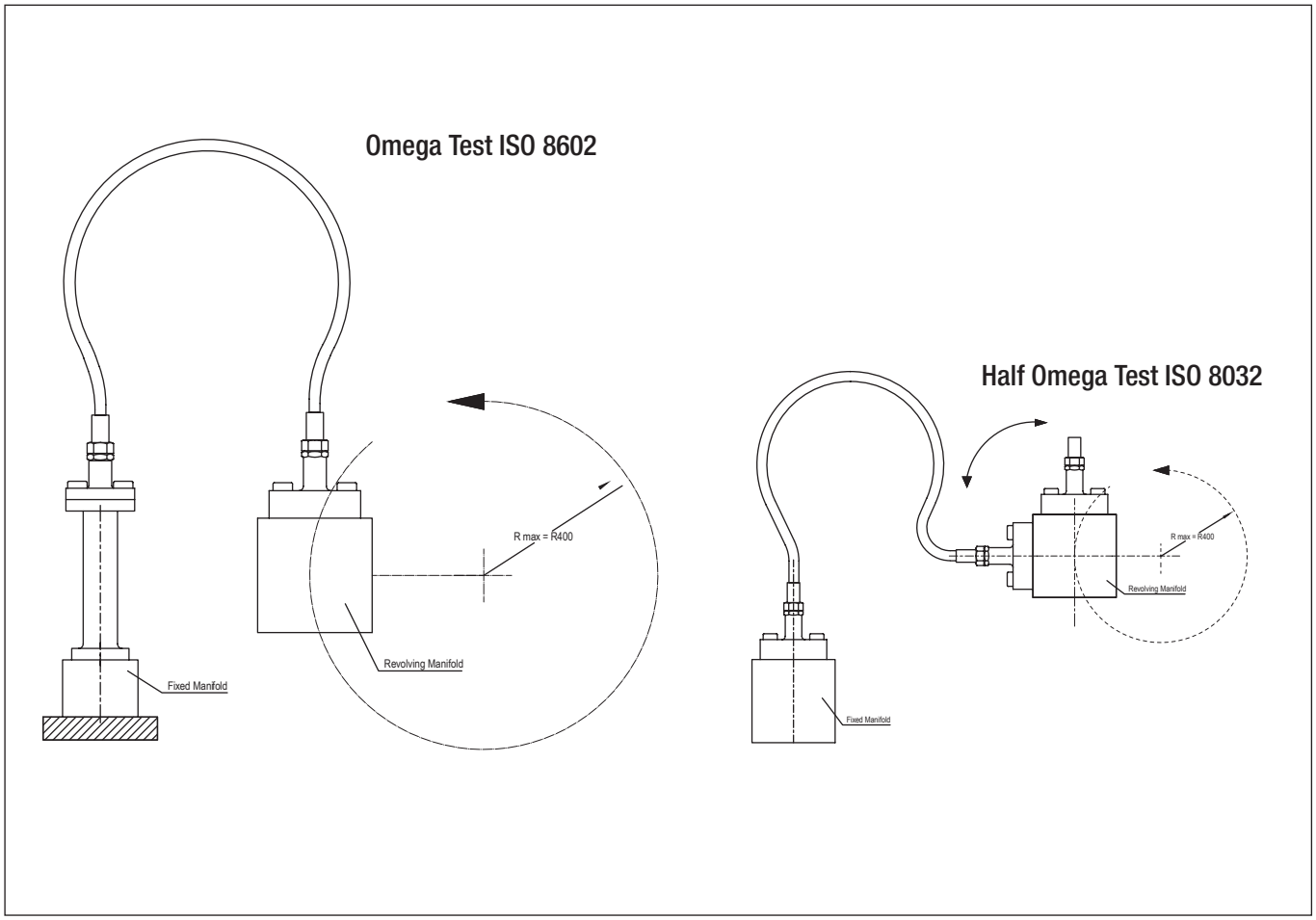
The pulse test is a service life test for hose assemblies. It comes very close to conditions encountered in practice. STAUFF hose connectors are mounted on hoses of various manufactures and pulse tested in order to guarantee the best possible production quality.

During the test, the test samples are exposed – usually under static bending loads and installation at 90° or 180° - to continually increasing loads between almost zero pressure and a value, depending on the type of hose, of 20% to 33% above working pressure. The load change frequency is 1±0,25 Hz. The decisive statement of the pulse test is the number of load changes until failure of the hose assembly occurs.

The pulse pressure test is made with a testing liquid according to the ISO viscosity class 46 and at a test temperature of 100°C or 120°C according to the displayed trapezoid curve.

STAUFF is not only able to realize pulse tests according to ISO 6803 but also pursuant to ISO 6802 (OMEGA TEST), ISO 8032 (HALF OMEGA TEST) with dynamic alternating bending loads, and there is also the opportunity to realize the well known KOMATSU TEST. These dynamic tests can be performed according to customers' requests.

Standard values and other information on pulse test methods can be found in the standards SAE J343, ISO S1436, ISO 8032, ISO 6802 and ISO 6803.



Working and Test Pressure

The working pressure corresponds to about 25% of the specified bursting pressure, achieving a safety factor of 4. In case of special hoses or very large nominal diameters the safety factor may be somewhat reduced, but should never be lower than safety factor 3. However, this falls under the responsibility of the hose manufacturers.

The test pressure that every finished hose assembly should be subjected to is generally 70% of the bursting pressure, so that the hose is required to prove a sufficient safety factor during the test.

Burst Pressure

The burst pressure of a hose line is a theoretic value without use for the operator. The burst pressure indication itself is not very informative due to its various definition types. In practice this value must never be reached - even not approximately – due to the security specifications for each installation.

The test procedures for the hydrostatic test pressure and for the burst pressure test are defined in the standards EN ISO 1402 and SAE J343.

Working Pressures for Hose Connectors (bar)

Hose Size											
DN	05	06	08	10	12	16	19	25	31	38	51
Dash	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
Standard Connection Size											
BSP	1/8“	1/4“	5/16“	3/8“	1/2“	5/8“	3/4“	1“	1 1/4“	1 1/2“	2“
UN/UNF	3/8“-24 UNF	7/16“-20 UNF	1/2“-20 UNF	9/16“-18 UNF	3/4“-16 UNF	7/8“-14 UNF	1 1/16“-12 UN	1 5/16“-12 UN	1 5/8“-12 UN	1 7/8“-12 UN	2 1/2“-12 UN
ORFS		9/16“-18 UNF	11/16“-16 UN	13/16“-16 UN	13/16“-16 UN	1“-14 UNS	1 3/16“-12 UN	1 7/16“-12 UN	1 11/16“-12 UN	2“-12 UN	
NPT	1/8“-27 NPTF	1/4“-18 NPTF		3/8“-18 NPTF	1/2“-14 NPTF		3/4“-14 NPTF	1“-12.5 NPTF	1 1/4“-11.5 NPTF	1 1/2“-11.5 NPTF	2“-11.5 NPTF
Metr. (L)	M12x1,5 Tube Ø 6 mm	M14x1,5 Tube Ø 8 mm	M16x1,5 Tube Ø 10 mm	M18x1,5 Tube Ø 12 mm	M22x1,5 Tube Ø 15 mm	M26x1,5 Tube Ø 18 mm	M30x2 Tube Ø 22 mm	M36x2 Tube Ø 28 mm	M45x2 Tube Ø 35 mm	M52x2 Tube Ø 42 mm	
Metr. (S)	M16x1,5 Tube Ø 8 mm	M18x1,5 Tube Ø 10 mm	M20x1,5 Tube Ø 12 mm	M20x1,5 [1] Tube Ø 12 mm	M24x1,5 Tube Ø 16 mm	M30x2 Tube Ø 20 mm	M36x2 Tube Ø 25 mm	M42x2 Tube Ø 30 mm	M52x2 Tube Ø 38 mm		
Connection Type and Working Pressure (bar)											
CEL	420	450	420	385	350	290	280	200	175	100	
DKOL	420	450	420	385	350	290	280	200	175	100	
CES	630	630	630	630	450	420	420	420	420		
DKOS	630	630	630	630	450	420	420	420	420		
DKK							M30x1,5	M38x1,5	M45x1,5	M52x1,5	M65x2
							63	63	63	63	40
SFL					345	345	345	345	272	207	207
SFS					413	413	413	413	413	413	413
AGR	350	350	350	350	315	315	250	200	180	125	80
DKR	350	350	350	350	315	315	250	200	180	125	80
DKOR	400	400	400	400	350	350	315	250	200	160	125
AGJ	345	310	276	276	276	210	210	170	140	105	80
DKJ	345	310	276	276	276	210	210	170	140	105	80
AGN	345	310	276	276	276	210	210	170	140	105	80
ORFS	413	413	413	413	413	413	413	345	345	275	207
RGN(G) [2]	300	270	250	200	180	165	150	135			
Hose Type and Working Pressure (bar)											
2TE EN 854	80	75	68	63	58	50	45	40			
3TE EN 854	160	145	130	110	93	80	70	55	45	40	33
1ST / 1SN / 1SC EN 853 / EN 857	250	225	215	180	180	130	105	88	63	50	40
2ST / 2SN / 2SC EN 853 / EN 857	415	400	350	330	275	250	215	165	125	90	80
4SP EN 856		450		445	415	350	350	280	210	185	165
4SH EN 856						450	420	380	325	290	250
R15 SAE 100 R15						414	414	414	414	414	414

[1] Connection size 14S (M22x1,5) has been replaced by connection size 12S (M20x1,5) in DIN EN 20066.
[2] The indicated working pressure has been determined empirically and under laboratory conditions respectively (burst pressure : 4 x 0,9).

Working Pressures for Hose Connectors (PSI)

Hose Size											
DN	05	06	08	10	12	16	19	25	31	38	51
Dash	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
Standard Connection Size											
BSP	1/8“	1/4“	5/16“	3/8“	1/2“	5/8“	3/4“	1“	1 1/4“	1 1/2“	2“
UN/UNF	3/8“-24 UNF	7/16“-20 UNF	1/2“-20 UNF	9/16“-18 UNF	3/4“-16 UNF	7/8“-14 UNF	1 1/16“-12 UN	1 5/16“-12 UN	1 5/8“-12 UN	1 7/8“-12 UN	2 1/2“-12 UN
ORFS			9/16“-18 UNF		11/16“-16 UN	13/16“-16 UN	1“-14 UNS	1 3/16“-12 UN	1 7/16“-12 UN	1 11/16“-12 UN	2“-12 UN
NPT	1/8“-27 NPTF	1/4“-18 NPTF		3/8“-18 NPTF	1/2“-14 NPTF		3/4“-14 NPTF	1“-12.5 NPTF	1 1/4“-11.5 NPTF	1 1/2“-11.5 NPTF	2“-11.5 NPTF
Metr. (L)	M12x1,5 Tube Ø 6 mm	M14x1,5 Tube Ø 8 mm	M16x1,5 Tube Ø 10 mm	M18x1,5 Tube Ø 12 mm	M22x1,5 Tube Ø 15 mm	M26x1,5 Tube Ø 18 mm	M30x2 Tube Ø 22 mm	M36x2 Tube Ø 28 mm	M45x2 Tube Ø 35 mm	M52x2 Tube Ø 42 mm	
Metr. (S)	M16x1,5 Tube Ø 8 mm	M18x1,5 Tube Ø 10 mm	M20x1,5 Tube Ø 12 mm	M20x1,5 [1] Tube Ø 12 mm	M24x1,5 Tube Ø 16 mm	M30x2 Tube Ø 20 mm	M36x2 Tube Ø 25 mm	M42x2 Tube Ø 30 mm	M52x2 Tube Ø 38 mm		
Connection Type and Working Pressure (PSI)											
CEL	6092	6527	6092	5584	5076	4206	4061	2901	2538	1450	
DKOL	6092	6527	6092	5584	5076	4206	4061	2901	2538	1450	
CES	9137	9137	9137	9137	6527	6092	6092	6092	6092		
DKOS	9137	9137	9137	9137	6527	6092	6092	6092	6092		
DKK							M30x1,5	M38x1,5	M45x1,5	M52x1,5	M65x2
							914	914	914	914	580
SFL					5000	5000	5000	5000	4000	3000	3000
SFS					6000	6000	6000	6000	6000	6000	6000
AGR	5075	5075	5075	5075	4568	4568	3625	2900	2610	1813	1160
DKR	5075	5075	5075	5075	4568	4568	3625	2900	2610	1813	1160
DKOR	5800	5800	5800	5800	5075	5075	4568	3625	2900	2320	1813
AGJ	5000	5000	4000	4000	4000	3000	3000	2500	2000	1500	1160
DKJ	5000	5000	4000	4000	4000	3000	3000	2500	2000	1500	1160
AGN	5000	5000	4000	4000	4000	3000	3000	2500	2000	1500	1160
ORFS	6000	6000	6000	6000	6000	6000	6000	5000	5000	4000	3000
RGN(G) [2]	4350	3915	3625	2900	2610	2393	2175	1958			
Hose Type and Working Pressure (PSI)											
2TE EN 854	1160	1088	986	914	841	725	653	580			
3TE EN 854	2320	2103	1885	1595	1349	1160	1015	798	653	580	479
1ST / 1SN / 1SC EN 853 / EN 857	3625	3263	3118	2610	2610	1885	1523	1276	914	725	580
2ST / 2SN / 2SC EN 853 / EN 857	6018	5800	5075	4785	3988	3625	3118	2393	1813	1305	1160
4SP EN 856		6525		6453	6018	5075	5075	4060	3045	2683	2393
4SH EN 856						6525	6090	5510	4713	4205	3625
R15 SAE 100 R15						6000	6000	6000	6000	6000	6000

[1] Connection size 14S (M22x1,5) has been replaced by connection size 12S (M20x1,5) in DIN EN 20066.
[2] The indicated working pressure has been determined empirically and under laboratory conditions respectively (burst pressure : 4 x 0,9).



Product-Specific Abbreviations 200

Global Contact Directory 202

Product-Specific Abbreviations

Abbreviation	Product Category	Product Description	Page
15000	ECOVOS Carbon Steel Hose Connectors	UVOS Skive/Non-Skive Swage Ferrule for Braided and Spiral Hose	14
15011	ECOVOS Carbon Steel Hose Connectors	Non-Skive Swage Ferrule for Braided Hose	16
15011	ECOVOS VA Stainless Steel Hose Connectors	Non-Skive Swage Ferrule for Braided Hose	92
15021	ECOVOS Carbon Steel Hose Connectors	Skive/Non-Skive Swage Ferrule for Braided Hose	17
15021	ECOVOS VA Stainless Steel Hose Connectors	Skive/Non-Skive Swage Ferrule for Braided Hose	93
15031	ECOVOS Carbon Steel Hose Connectors	Skive Swage Ferrule for Braided and Spiral Hose	18
15031	ECOVOS VA Stainless Steel Hose Connectors	Skive Swage Ferrule for Braided and Spiral Hose	94
15037	ECOVOS^{+} Interlocking Protection for Hose Connectors	Skive Swage Ferrule for Spiral Hose	88
15211	ECOVOS Carbon Steel Hose Connectors	AGRIVOS Non-Skive Swage Ferrule for Compact Braided Hose	19
15311	ECOVOS Carbon Steel Hose Connectors	CVOS Non-Skive Swage Ferrule for Compact Braided Hose	20
15330	ECOVOS Carbon Steel Hose Connectors	Non-Skive Swage Ferrule for Hose with Textile Insert	21
15330	ECOVOS VA Stainless Steel Hose Connectors	Non-Skive Swage Ferrule for Hose with Textile Insert	95
15415	MULTIVOS High-Pressure Carbon Steel Hose Connectors	Skive Swage Ferrule for Spiral Hose	140
15425	MULTIVOS High-Pressure Carbon Steel Hose Connectors	Skive Swage Ferrule for Spiral Hose	140
15435	MULTIVOS High-Pressure Carbon Steel Hose Connectors	Skive Swage Ferrule for Spiral Hose	141
15445	MULTIVOS High-Pressure Carbon Steel Hose Connectors	Skive Swage Ferrule for Spiral Hose	141
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AGJ	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Male UN/UNF Thread and 74° Taper	117
AGJ	MULTIVOS High-Pressure Carbon Steel Hose Connectors	Straight Insert with Male UN/UNF Thread and 74° Taper	151 / 174
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AGJG 90°	ECOVOS Carbon Steel Hose Connectors	90° Elbow Insert with Male BSPP Thread and 60° Taper	53
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AGN	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Male NPTF Thread and 60° Conical Bore	120
AGN	MULTIVOS High-Pressure Carbon Steel Hose Connectors	Straight Insert with Male NPTF Thread and 60° Conical Bore	152
AGR	ECOVOS Carbon Steel Hose Connectors	Straight Insert with Male BSPP Thread and 60° Conical Bore	47
AGR	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Male BSPP Thread and 60° Conical Bore	116
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AGRF	ECOVOS Carbon Steel Hose Connectors	Straight Insert with Male BSPP Thread	48
AGRF	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Male BSPP Thread	118
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AS	ECOVOS^{+} Interlocking Protection for Hose Connectors	Mobile Interlocking Protection Ring	88
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BEL 90°	ECOVOS VA Stainless Steel Hose Connectors	90° Elbow Insert with Standpipe	98
BES	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Standpipe	99
BES 45°	ECOVOS VA Stainless Steel Hose Connectors	45° Elbow Insert with Standpipe	100
BES 90°	ECOVOS VA Stainless Steel Hose Connectors	90° Elbow Insert with Standpipe	101
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CEL	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Male Metric Thread and 24° Conical Bore	102
CEL	MULTIVOS High-Pressure Carbon Steel Hose Connectors	Straight Insert with Male Metric Thread and 24° Conical Bore	142
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CES	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Male Metric Thread and 24° Conical Bore	103
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DKJ	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Female UN/UNF Thread and 74° Conical Bore	132
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DKJ 45°	ECOVOS Carbon Steel Hose Connectors	45° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore	70
DKJ 45°	ECOVOS VA Stainless Steel Hose Connectors	45° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore	133
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DKJ 90°	ECOVOS Carbon Steel Hose Connectors	90° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore	71
DKJ 90°	ECOVOS VA Stainless Steel Hose Connectors	90° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore	134
DKJ 90°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	90° Elbow Insert with Female UN/UNF Thread and 74° Conical Bore	167
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DKJG 45°	ECOVOS Carbon Steel Hose Connectors	45° Elbow Insert with Female BSPP Thread and 60° Conical Bore	73
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DKJM	ECOVOS Carbon Steel Hose Connectors	Straight Insert with Female Metric Thread and 60° Conical Bore	75
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DKK 90°	ECOVOS Carbon Steel Hose Connectors	90° Elbow Insert with Female Metric Thread and Metal Seat	46
DKK 90°	ECOVOS VA Stainless Steel Hose Connectors	90° Elbow Insert with Female Metric Thread and Metal Seat	115
DKL	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Female Metric Nut Thread and 24° Taper	104
DKL 45°	ECOVOS VA Stainless Steel Hose Connectors	45° Elbow Insert with Female Metric Nut Thread and 24° Taper	105
DKL 90°	ECOVOS VA Stainless Steel Hose Connectors	90° Elbow Insert with Female Metric Nut Thread and 24° Taper	106

Product-Specific Abbreviations

Abbreviation	Product Category	Product Description	Page
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DKOJ 45°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	45° Elbow Insert with Female UN/UNF Thread and 74° Taper / O-Ring	177
DKOJ 90°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	90° Elbow Insert with Female UN/UNF Thread and 74° Taper / O-Ring	177
DKOL	ECOVOS Carbon Steel Hose Connectors	Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring	24
DKOL	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring	107
DKOL	MULTIVOS High-Pressure Carbon Steel Hose Connectors	Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring	144
DKOL 45°	ECOVOS Carbon Steel Hose Connectors	45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring	26
DKOL 45°	ECOVOS VA Stainless Steel Hose Connectors	45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring	108
DKOL 45°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring	145
DKOL 90°	ECOVOS Carbon Steel Hose Connectors	90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring	28
DKOL 90°	ECOVOS VA Stainless Steel Hose Connectors	90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring	109
DKOL 90°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring	146
DKOR	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Female BSPP Thread and 60° Taper / O-Ring	136
DKOR	MULTIVOS High-Pressure Carbon Steel Hose Connectors	Straight Insert with Female BSPP Thread and 60° Taper / O-Ring	171
DKOR	POWERVOS High-Performance Steel Hose Connectors	Straight Insert with Female BSPP Thread and 60° Taper / O-Ring	183
DKOR 45°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	45° Elbow Insert with Female BSPP Thread and 60° Taper / O-Ring	172
DKOR 90°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	90° Elbow Insert with Female BSPP Thread and 60° Taper / O-Ring	173
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DKOS	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring	110
DKOS	MULTIVOS High-Pressure Carbon Steel Hose Connectors	Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring	147
DKOS	POWERVOS High-Performance Steel Hose Connectors	Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring	184
DKOS 45°	ECOVOS Carbon Steel Hose Connectors	45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring	32
DKOS 45°	ECOVOS VA Stainless Steel Hose Connectors	45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring	111
DKOS 45°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	45° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring	148
DKOS 90°	ECOVOS Carbon Steel Hose Connectors	90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring	34
DKOS 90°	ECOVOS VA Stainless Steel Hose Connectors	90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring	112
DKOS 90°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	90° Elbow Insert with Female Metric Nut Thread and 24° Taper / O-Ring	149
DKR	ECOVOS Carbon Steel Hose Connectors	Straight Insert with Female BSPP Thread and 60° Taper	64
DKR	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Female BSPP Thread and 60° Taper	127
DKR	MULTIVOS High-Pressure Carbon Steel Hose Connectors	Straight Insert with Female BSPP Thread and 60° Taper	162
DKR 45°	ECOVOS Carbon Steel Hose Connectors	45° Elbow Insert with Female BSPP Thread and 60° Taper	65
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DKR 45°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	45° Elbow Insert with Female BSPP Thread and 60° Taper	163
DKR 90°	ECOVOS Carbon Steel Hose Connectors	90° Elbow Insert with Female BSPP Thread and 60° Taper	66
DKR 90°	ECOVOS VA Stainless Steel Hose Connectors	90° Elbow Insert with Female BSPP Thread and 60° Taper	129
DKR 90°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	90° Elbow Insert with Female BSPP Thread and 60° Taper	164
DKRF	ECOVOS Carbon Steel Hose Connectors	Straight Insert with Female BSPP Thread	67
DKRF	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Female BSPP Thread	130
DKRF 90°	ECOVOS Carbon Steel Hose Connectors	90° Elbow Insert with Female BSPP Thread	68
DKRF 90°	ECOVOS VA Stainless Steel Hose Connectors	90° Elbow Insert with Female BSPP Thread	131
ORFS	ECOVOS Carbon Steel Hose Connectors	Straight Insert with O-Ring Face Seal Connection	57
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ORS	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with Female UN/UNF Thread for O-Ring Face Seal Connection	135
ORS	MULTIVOS High-Pressure Carbon Steel Hose Connectors	Straight Insert with Female UN/UNF Thread for O-Ring Face Seal Connection	168
ORS 45°	ECOVOS Carbon Steel Hose Connectors	45° Elbow Insert with Female UN/UNF Thread for O-Ring Face Seal Connection	79
ORS 45°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	45° Elbow Insert with Female UN/UNF Thread for O-Ring Face Seal Connection	169
ORS 90°	ECOVOS Carbon Steel Hose Connectors	90° Elbow Insert with Female UN/UNF Thread for O-Ring Face Seal Connection	80
ORS 90°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	90° Elbow Insert with Female UN/UNF Thread for O-Ring Face Seal Connection	170
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RGNG	ECOVOS Carbon Steel Hose Connectors	Straight Imperial Banjo Insert	83
SFC	MULTIVOS High-Pressure Carbon Steel Hose Connectors	Straight Insert with SAE Flange Adaptor (9000 PSI Series)	159
SFC 45°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	45° Elbow Insert with SAE Flange Adaptor (9000 PSI Series)	160
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SFL	ECOVOS Carbon Steel Hose Connectors	Straight Insert with SAE Flange Adaptor (3000 PSI Series)	58
SFL	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with SAE Flange Adaptor (3000 PSI Series)	121
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SFL 45°	ECOVOS Carbon Steel Hose Connectors	45° Elbow Insert with SAE Flange Adaptor (3000 PSI Series)	59
SFL 45°	ECOVOS VA Stainless Steel Hose Connectors	45° Elbow Insert with SAE Flange Adaptor (3000 PSI Series)	122
SFL 45°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	45° Elbow Insert with SAE Flange Adaptor (3000 PSI Series)	154 / 175
SFL 90°	ECOVOS Carbon Steel Hose Connectors	90° Elbow Insert with SAE Flange Adaptor (3000 PSI Series)	60
SFL 90°	ECOVOS VA Stainless Steel Hose Connectors	90° Elbow Insert with SAE Flange Adaptor (3000 PSI Series)	123
SFL 90°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	90° Elbow Insert with SAE Flange Adaptor (3000 PSI Series)	155 / 175
SFS	ECOVOS Carbon Steel Hose Connectors	Straight Insert with SAE Flange Adaptor (6000 PSI Series)	61
SFS	ECOVOS VA Stainless Steel Hose Connectors	Straight Insert with SAE Flange Adaptor (6000 PSI Series)	124
SFS	MULTIVOS High-Pressure Carbon Steel Hose Connectors	Straight Insert with SAE Flange Adaptor (6000 PSI Series)	156 / 176
SFS 45°	ECOVOS Carbon Steel Hose Connectors	45° Elbow Insert with SAE Flange Adaptor (6000 PSI Series)	62
SFS 45°	ECOVOS VA Stainless Steel Hose Connectors	45° Elbow Insert with SAE Flange Adaptor (6000 PSI Series)	125
SFS 45°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	45° Elbow Insert with SAE Flange Adaptor (6000 PSI Series)	157 / 176
SFS 90°	ECOVOS Carbon Steel Hose Connectors	90° Elbow Insert with SAE Flange Adaptor (6000 PSI Series)	63
SFS 90°	ECOVOS VA Stainless Steel Hose Connectors	90° Elbow Insert with SAE Flange Adaptor (6000 PSI Series)	126
SFS 90°	MULTIVOS High-Pressure Carbon Steel Hose Connectors	90° Elbow Insert with SAE Flange Adaptor (6000 PSI Series)	158 / 176
SN-WC	ECOVOS Carbon Steel Hose Connectors	Union Nut for Straight Insert with Pressure Washer Connector	81
WCC	ECOVOS Carbon Steel Hose Connectors	Straight Insert with Pressure Washer Connector	81
WCS	ECOVOS Carbon Steel Hose Connectors	Straight Insert with Pressure Washer Connector	81

Global Contact Directory

STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorised distributors and representatives in all major industrial regions of the world.

Contact information on this page may be subject to changes and additions over time. Frequently updated and complete contact information can always be found at www.stauff.com.

Germany



Walter Stauffenberg GmbH & Co. KG
Im Ehrenfeld 4
58791 Werdohl
www.stauff.com/contact

www.stauff.com



Neuenrade-Küntrop Logistics Centre
Wasserburgstraße 35
58809 Neuenrade



Plettenberg-Ohle Production Site
Lennestraße 2
58840 Plettenberg



Meinerzhagen Production Site
Neugrünental 1
58540 Meinerzhagen



STAUFF Digital
Phoenixplatz 3
44263 Dortmund

Europe

France

STAUFF S.A.S.
230, Avenue du Grain d'Or
Z.I. de Vineuil - Blois Sud
41354 Vineuil-cedex
Tel.: +33 2 54 50 55 50
Fax: +33 2 54 42 29 19
E-Mail: direction@stauffsa.com
www.stauff.fr

Ireland

STAUFF UK Ltd.
Block B, 9 Ferguson Drive
Knockmore Hill Industrial Estate
Lisburn, County Antrim, BT28 2EX
Tel.: +44 2892 60 69 00
Fax: +44 2892 60 26 88
E-Mail: sales@stauffireland.com
www.stauff.co.uk

Italy

STAUFF Italia s.r.l
Via Como, 9
23846 Garbagnate Monastero (LC)

Tel.: +39 031 65 84 94
Fax: +39 031 65 50 05
E-Mail: sales@stauff.it
www.stauff.it

Poland

STAUFF Polska Sp. z o.o.
Miszewko 43 A
80-297 Banino

Tel.: +48 58 660 11 60
Fax: +48 58 629 79 52
E-Mail: sales@stauff.pl
www.stauff.pl

Russian Federation

STAUFF LLC
Building 1
19, Leninskaya Sloboda
Moscow, 115280
Tel.: +7 495 276 16 50
Fax: +7 495 276 16 51
E-Mail: sales@stauff.ru
www.stauff.ru

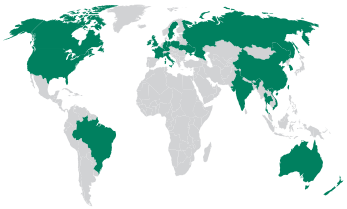
Further branch offices in
Engels, Volzhskiy, Magnitogorsk,
Nizhny Novgorod and St. Petersburg.

United Kingdon

STAUFF UK Ltd.
500, Carlisle Street East
Off Downgate Drive
Sheffield, S4 8BS
Tel.: +44 114 251 85 18
Fax: +44 114 251 85 19
E-Mail: sales@stauff.co.uk
www.stauff.co.uk

STAUFF UK Ltd.
Badentoy Avenue
Badentoy Industrial Estate
Portlethen, Aberdeen, AB12 4YB
Tel.: +44 1224 78 61 66
Fax: +44 1224 78 61 77
E-Mail: sales@stauffscotland.co.uk
www.stauff.co.uk

Global Contact Directory



North America

Canada

STAUFF Canada Ltd.
866 Milner Avenue
Scarborough
Ontario M1B 5N7
Tel.: +1 416 282 46 08
Fax: +1 416 282 30 39
E-Mail: sales@stauffcanada.com
www.stauffcanada.com

United States

STAUFF Corporation
7 Wm. Demarest Place
Waldwick, 07463-1542
New Jersey
Tel.: +1 201 444 78 00
Fax: +1 201 444 78 52
E-Mail: sales@stauffusa.com
www.stauffusa.com

Further branch office in
Canton, Michigan.

South America

Brazil

STAUFF Brasil Ltda.
Avenida Gupê 10767
Galpão 2 - Bloco A
Barueri, São Paulo, CEP 06422-120
Tel.: +55 11 47 72 72 00
Fax: +55 11 47 72 72 10
E-Mail: stauff@stauffbrasil.com
www.stauffbrasil.com

Asia

China

STAUFF CHINA
Building 8, No. 1698, Minyi Road
Songjiang District,
Shanghai, 201612
Tel.: +86 21 68 18 70 00
Fax: +86 21 68 18 71 36
E-Mail: info@stauff.com.cn
www.stauff.com.cn

Further branch offices in Beijing, Changsha, Chengdu, Changchun, Chongqing, Jinan, Harbin, Guangzhou, Shenyang, Wuhan, Xian and Xuzhou.

India

STAUFF India Pvt. Ltd.
Gat no. 26/1 & 27, Sanghar Warehousing
Pune - Nagar Road
Lonikand - 412216
Tel.: +91 20 6731 4900
Fax: +91 20 6731 4905
E-Mail: sales@stauffindia.com
www.stauffindia.com

Korea

STAUFF Korea Ltd.
105, Hwajeonsandan 5-ro
Gangseo-gu
Busan, 46739
Tel.: +82 51 266 6666
Fax: +82 51 266 8866
E-Mail: info@stauff.co.kr
www.stauff.co.kr

Singapore

STAUFF (SEA) Pte. Ltd.
128 Joo Seng Road #02-01
Singapore 368356
Tel.: +65 62 44 61 68
E-Mail: sales_sg@stauff.com
www.stauff.com.sg

Thailand

STAUFF (Thailand) Co., Ltd.
10 Soi On-Nut 74/4
Pravet District
Bangkok 10250
Tel.: +66 2 721 73 23 / 24
Fax: +66 2 721 73 35
E-Mail: sales@stauff.co.th
www.stauff.co.th

Vietnam

STAUFF Vietnam Ltd.
8th Floor, Qunimex Building
28 Nguyen Thi Dieu
District 3, Ho Chi Minh City
Tel.: +84 8 3948 10 41 / 42
Fax: +84 8 3948 10 44
E-Mail: sales@stauff.com.vn
www.stauff.com.vn

Oceania

Australia

STAUFF Corporation Pty Ltd
24-26 Doyle Avenue
Unanderra NSW 2526

Tel.: +61 2 4271 9000
Fax: +61 2 4271 8432
E-Mail: sales@stauff.com.au
www.stauff.com.au

Further branch offices in
Adelaide, Brisbane, Melbourne
and Sydney.

New Zealand

STAUFF Corporation (NZ) Ltd.
Unit D, 103 Harris Road
East Tamaki, Auckland 2013

Tel.: +64 9 912 1530
Fax: +64 9 912 1531
E-Mail: sales@stauff.co.nz
www.stauff.co.nz

Introduction

ecovos™
Carbon Steel Hose Connectors

ecovos+
Mobile Interlocking Protection

ecovos™va
Stainless Steel Hose Connectors

multivos™
High-Pressure Carbon Steel Hose Connectors

powervos™
High-Pressure High-Performance Steel Hose Connectors

Test Mandrels and Mandrel Kits

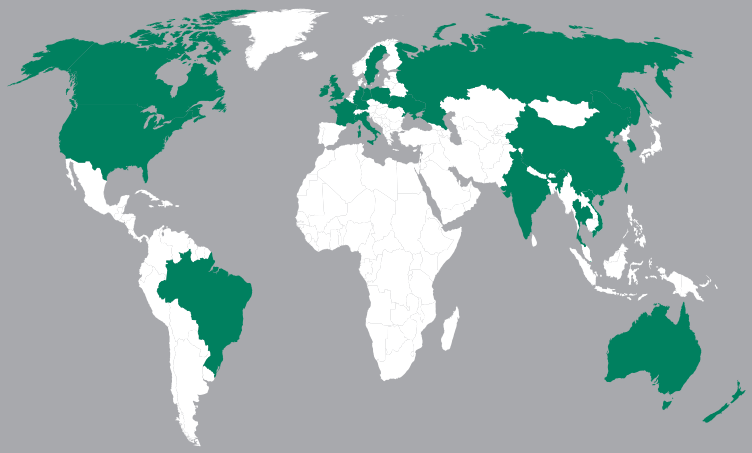
Technical Appendix

Appendix

STAUFF®

Catalogue 4

STAUFF Hose Connectors



Germany

Walter Stauffenberg GmbH & Co. KG
Im Ehrenfeld 4
58791 Werdohl

STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorised distributors and representatives in all major industrial regions of the world.

Contact STAUFF:

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