





STAUFF Spiral Hose Protection HPR-SHP	92 - 93	STAUFF-Strip Hose Strip Bundle with & without Mounting Hole HPR-STRVFE / HPR-STRVF
STAUFF-Spiral Spiral Hose Protector HPR-SHPBK / HPR-SHPYE	92	STAUFF-Wrap Hose Velcro® Wrap HPR-HWV
STAUFF-Spiral ABRA Abrasion Wear Indicator HPR-SHPBK-ABRA	93	Test Mandrel Kits for the ECOVOS Hose Connector System (Hose standards EN 853, EN 856, EN 857) HCS-DOR
STAUFF-Spiral ASTA Antistatic Abrasion Wear Indicator HPR-SHPBK-ASTA	93	STAUFF Clean Pipe, Tube and Hose Cleaning System SC
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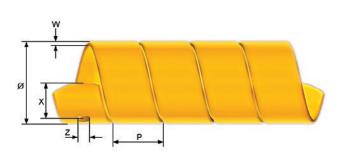
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STAUFF-Spiral Spiral Hose Protector Types HPR-SHP-..-PK / HPR-SHP-..-YE







Technical Features

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Application	Protects hydraulic and pneumatic hoses from abrasion, shocks and general rubbing. Makes hoses more visible, helping to prevent possible accidents. Is easy to install either before or after assembly of the hose. STAUFF-Spiral is made by directly compressing the raw material, High Density Polyethylene. The advantages gained by using this method are: - Greater strength of the spiral - Round edge profile of the spiral
Advantages	- Resistant to acids, oils and solvents - Contains antistatic additive - Flexible - UV-protected - Ø 75mm to 140mm pre-cuts have a hole for lengthening purposes - Recyclable
Working Temperature	Resists frost and heat (temperature range from -50°C up to +100°C)

Black (standa	rd)	Yellow		OD	ID	Hose Type	Weight	Wall	Pitch	Hole Diameter	Hole Diameter	Usage Range
Item No.	Designation	Item No.	Designation	mm	mm		Kg/m	mm	mm	mm (X)	mm (Z)	mm
2020047652	HPR-SHP-16-BK	2020051436	HPR-SHP-16-YE	16	13.4	A	0.06	1.3	12	-	-	13 – 18
2020047653	HPR-SHP-20-BK	2020051435	HPR-SHP-20-YE	20	16.0	A	0.09	2	20	-	-	16 – 22
2020047654	HPR-SHP-25-BK	2020051434	HPR-SHP-25-YE	25	20.6	A	0.15	2.2	25	-	-	20 – 27
2020047655	HPR-SHP-32-BK	2020051433	HPR-SHP-32-YE	32	27.0	A E •	0.19	2.5	22	-	-	27 – 36
2020047656	HPR-SHP-40-BK	2020051432	HPR-SHP-40-YE	40	34.6	▲ ■ •	0.3	2.7	24	-	-	34 – 44
2020047657	HPR-SHP-50-BK	2020051431	HPR-SHP-50-YE	50	43.2	A • E •	0.4	3.4	30	-	-	43 – 55
2020047658	HPR-SHP-63-BK	2020051430	HPR-SHP-63-YE	63	55.6		0.65	3.7	27	-	-	55 – 67
2020047659	HPR-SHP-75-BK	2020051429	HPR-SHP-75-YE	75	66.2	• ■	0.73	4.4	42	35	10	66 – 80



STAUFF-Spiral ABRA Abrasion Wear Indicator Type HPR-SHP-..-BK-ABRA



Technical Features

Application Lengths	yellow colour, you know the spiral needs to be observed and soon replaced. Abrasion of this spiral is very minimal, even though the thickness of the top layer is only 0.5mm. It would take approximately 1000km or 415 hours to wear off, at 1.9 MPa surface pressure (pin-on-disk tester). Per metre, supplied loose or fitted
Colours	Black surface, yellow interior
Material	HD polyethylene (double extruded)



Item No.	Designation	OD mm	ID mm	Hose Type	Weight Kg/m	Wall	Pitch mm	Usage Range mm
2020074845	HPR-SHP-20-BK-ABRA	20	16.0	A	0.09	2.0	20	16-22
2020074846	HPR-SHP-25-BK-ABRA	25	20.6	A	0.15	2.2	21.5	20-27
2020074847	HPR-SHP-32-BK-ABRA	32	27.0	A E •	0.19	2.5	22	27-36
2020074848	HPR-SHP-40-BK-ABRA	40	34.6	A E •	0.30	2.7	24	34-44
2020074849	HPR-SHP-50-BK-ABRA	50	43.2	A • E •	0.40	3.4	30	43-55
2020074850	HPR-SHP-63-BK-ABRA	63	55.6		0.65	3.7	27	55-67
2020074851	HPR-SHP-75-BK-ABRA	75	66.2	• ■	0.73	4.4	42	66-80

STAUFF-Spiral ASTA Antistatic Abrasion Wear Indicator Type HPR-SHP-..-BK-ASTA



Technical Features

Application	STAUFF-Spiral ASTA is a 2-coloured permanently antistatic spiral which is designed for underground mines and other special environments that demand surface conductivity.
Lengths	Per metre, supplied loose or fitted
Colours	Black surface, green interior
Material	HD polyethylene (double extruded)

Item No.	Designation	OD mm	ID mm	Hose Type	Weight Kg/m	Wall mm	Pitch mm	Usage Range mm
6100024897	HPR-SHP-20-BK-ASTA	20	16.0	A	0.11	2.0	20	16-22
6100024898	HPR-SHP-25-BK-ASTA	25	20.6	A	0.17	2.2	21	20-27
6100024899	HPR-SHP-32-BK-ASTA	32	27.0	A E •	0.23	2.5	22	27-36
6100024903	HPR-SHP-40-BK-ASTA	40	34.6	A E •	0.29	2.7	24	34-44
6100024904	HPR-SHP-50-BK-ASTA	50	43.2	A • E •	0.41	3.4	30	43-55
6100024905	HPR-SHP-63-BK-ASTA	63	55.6		0.70	3.7	27	55-67
6100024906	HPR-SHP-75-BK-ASTA	75	66.2	• ■	0.88	4.4	42	66-80

STAUFF-Sleeve MSHA Hose Sleeve Protector Type HPR-SLE-..-STF-MSHA



Technical Features

Application	Easy to install, textile MSHA-approved STAUFF-Sleeve is produced from polyester which is recyclable material. STAUFF-Sleeve MSHA has excellent pressure resistance and protects people in close proximity to a hose failure and meets the requirements of standards EN ISO 3457 and EN 12999.
Advantages	- UV-protected - Very low electrical conductivity - Excellent Abrasion resistance
Colours	Black with white printing. Customised printing is available
Working Temperature	Recommended temperature range: -40 +120°C

Item No.	Designation	Inner Diameter / Flat (mm)	Roll Length
2020047159	HPR-SLE-17-STF-MSHA	17/30	
2020047160	HPR-SLE-23-STF-MSHA	23/40	
2020047161	HPR-SLE-27-STF-MSHA	27/45	
2020047162	HPR-SLE-30-STF-MSHA	30/50	
2020047163	HPR-SLE-36-STF-MSHA	36/60	
2020047164	HPR-SLE-39-STF-MSHA	39/65	HPR-SLE Sleeve is available in
2020047165	HPR-SLE-46-STF-MSHA	46/75	bulk rolls of 50m otherwise charged by the metre.
2020047166	HPR-SLE-55-STF-MSHA	55/90	
2020047167	HPR-SLE-62-STF-MSHA	62/100	
2020047168	HPR-SLE-78-STF-MSHA	78/125	
2020047169	HPR-SLE-109-STF-MSHA	109/175	
2020047170	HPR-SLE-125-STF-MSHA	125/200	

To select the correct Double Ear Clamp for sleeve crimping, refer to your hose assembly crimp diameter on page 102.

Double Ear Clamp to suit HPR-SLE Type HPR-HB



Item No.	Designation	ID mm
6100296594	HPR-HB-15/18	15-18
6100296595	HPR-HB-17/20	17-20
6100296596	HPR-HB-20/23	20-23
6100296597	HPR-HB-23/27	23-27
6100296598	HPR-HB-25/28	25-28
6100296599	HPR-HB-31/34	31-34
6100296600	HPR-HB-37/40	37-40
6100296601	HPR-HB-40/43	40-43
6100296602	HPR-HB-43/46	43-46

Heat Shrink to suit HPR-SLE Type HPR-HSTMG



Item No.	Designation	ID mm
6100149735	HPR-HSTMG-40/12-BK-MSHA-CAASMDW40/12TK	12-40
6100149734	HPR-HSTMG-56/17-BK-MSHA-CAASMDW56/17TK	17-56
6100259604	HPR-HSTMG-95/25-BK-MSHA-CAASMDW95/25TK	25-95





STAUFF-Strip **Hose Strip Bundle** Type HPR-STR-..-VFE / HPR-STR-..-VF



Technical Features

Application	STAUFF-Strip bundles hose lines again and again. It is produced from polypropylene and has Velcro® -brand fasteners. Maximum force of STAUFF-Strip is average of 1500 Nm. The buckle is stainless steel and this product is available in three versions: buckle fastener, velcro® and velcro® with eyelet.
Sizes	Available for bundles of diameter: max: 70mm, 100mm, 125mm, 155mm, 180mm



With Mounting Hole

Item No.	Designation	ID mm			
2020050810	HPR-STR-70-VFE	70			
2020050811	HPR-STR-100-VFE	100			
2020050812	HPR-STR-125-VFE	125			
2020050813	HPR-STR-155-VFE	155			
2020050814	HPR-STR-180-VFE	180			

Without Mounting Hole

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Item No.	Designation	ID mm			
2020050805	HPR-STR-70-VF	70			
2020050806	HPR-STR-100-VF	100			
2020050807	HPR-STR-125-VF	125			
2020050808	HPR-STR-155-VF	155			
2020050809	HPR-STR-180-VF	180			

STAUFF-Wrap **Hose Velcro® Wrap** Type HPR-HWV-..



Item No.	Designation	ID mm
2020051584	HPR-HVW-40	40
2020073889	HPR-HVW-60	60
2020073890	HPR-HVW-80	80
2020051585	HPR-HVW-100	100
2020051586	HPR-HVW-120	120

Technical Features

Application	STAUFF-Wrap is produced from 100% polyamide 6.6 with PU coating and Velcro® -brand fasteners which make it very easy to install on hose lines after assembly/installation and repeatedly when required. Its tensile strength is excellent (EN ISO 13934-1) and water repellence of the fabric is 100% (EN 24920).
Lengths	Per metre, supplied loose or fitted



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

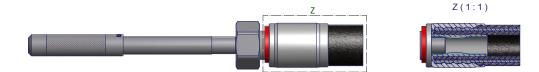




Fig. 1:

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!

Fig. 2: Maximum reduction of nipple diameter reached

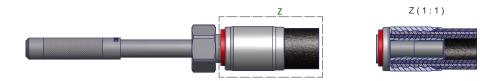


Fig. 2:

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

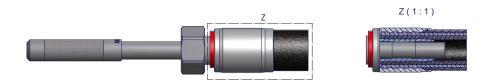


Fig. 3:

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





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:

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			Item No.	Designation	
DN	inch	Dash			
6	1/4"	-4			
8	5/16"	-5			
10	3/8"	-6		HCS-DOR-0625	
12	1/2"	-8	6100116914		
16	5/8"	-10			
19	3/4"	-12			
25	1"	-16			
31	1 1/4"	-20			
38	1 1/2"	-24	6100116922	HCS-DOR-3151	
51	2"	-32			





STAUFF Clean Pipe, Tube and Hose Cleaning System

Product Description

The STAUFF Clean System comprises of a pneumatic launcher and a range of specially designed nozzles and projectiles.

The launcher uses standard industrial compressed air pressure between 6 and 8 bar / 87 and 116 PSI to propel a foam projectile through the nozzle and into the pipe, tube or hose bore to have their inside surface cleanedfrom any unwanted contamination.

This provides a safe and environmentally friendly tool that requires little formal expertise to operate and apply.

The **launcher** is the part of the system that controls the air supply to propel the projectile from start to finish of the cleaning job.

The nozzles are specially designed to affect an airtight seal on any pipe, tube or hose with or without end fittings. Its main purpose is to compress the foam projectile allowing it to enter the internal diameter of the pipe, tube or hose to be cleaned.

The **projectile** is the part of the system that does the cleaning: The foam projectile is sized to be approximately 15 % larger than the internal diameter of the pipe, tube or hose to be cleaned. The compression of the projectile against the internal wall cleans the internal surface and expels any loose contaminants from the end of the pipe, tube or hose.

The STAUFF Clean System is available as separate components or in a variety of kit forms comprising various nozzle types, adaptor and launcher, all contained in a heavy duty carrying case.







STAUFF Clean Launchers / Launcher Kits



Characteristics

- Pneumatic pistol-grip launcher
- Light-weight and ergonomic design
- Easy to operate and apply
- Connection to air suppy with quick release coupling
- Suitable for any type of nozzle
- Delivered separately or in a variety of kit forms including carrying case, adaptor ring and nozzles (if required)

Technical Data

- Air compressor requirement: 6 ... 8 bar / 87 ... 116 PSI
- Effective air volume: 250 ... 400 I/min / 66 ... 106 US GPM

Ordering Designations

SC-LG Launcher only Launcher kit (launcher, kit and adaptor) SC-LK

• Kit with set of 10 Universal nozzles SC-10UV-K Kit with set of 18 Metric Tube nozzles SC-18MT-K • Kit with set of 10 JIC nozzles SC-10J-K

 Adaptor ring SC-UV-AR

Contact STAUFF for alternative connection adaptors and couplings.





STAUFF Clean Nozzles / Nozzle Sets

Universal Nozzle Set (SCN-U)

The Universal Nozzle is designed with a tapered seat that will allow it to suit for 90% of applications, including Hose, Tube and Pipe, with or without fittings, in hydraulic and pneumatic pipe systems, condenser tubes, boiler tubes and food lines.

The Universal Nozzle kit fits all and will accommodate applications with JIC, SAE and BSP end fittings.

The set of 10 nozzles consists of the following sizes: 6 mm, 8 mm, 10 mm, 13 mm, 16 mm, 19 mm, 25 mm and 32 mm.

JIC Nozzle Set (SCN-J)

The JIC Nozzle is designed specifically for use with JIC and SAE type fittings. The nozzles are machined to accommodate both male and female configuration, ensuring a perfect airtight seal every time.

The set of 10 nozzles consist of the following sizes: 6 mm, 8 mm, 10 mm, 13 mm, 16 mm, 19 mm, 25 mm, $32 \, \text{mm}$, $38 \, \text{mm}$ and $50 \, \text{mm}$.

Metric Tube Nozzle Set (SCN-M)

The Metric Tube Nozzle is intended for use specifically with Metric sized tube and is designed to fit over the outside of the tube or pipe being cleaned.

The inside diameter of the nozzle is reduced to match the inside diameter of the tube. The nozzles are machined from solid bar stock and designed for superior strength.

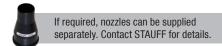
The set of 18 nozzles consist of the following sizes: 6 mm, 8 mm, 10 mm, 12 mm, 14 mm, 15 mm, 16 mm, 18 mm, 20 mm, 22 mm, 25 mm, 28 mm, 30 mm, 35 mm, 38 mm, 42 mm, 50 mm and 60 mm.

BSP Nozzle Set (SCN-B)

The BSP Nozzle is designed specifically for BSP configuration fittings. The nozzles are machined to accommodate both male and female configurations, ensuring a perfect airtight seal every time.

The set of 7 nozzles consist of the following sizes: 6 mm, 10 mm, 13 mm, 16 mm, 19 mm, 25 mm and 32 mm.







NPT Nozzle Set (SCN-N)

The NPT Nozzle is designed specifically for NPT configuration fittings. The nozzles are machined to accommodate both male and female configurations, ensuring a perfect airtight seal every time.

The set of 7 nozzles consist of the following sizes: 1/4 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in, 1 in and 1 1/4 in.

STAUFF Clean Projectiles

Standard Series Type SCP-S

Intended for the cleaning of hose, tube or pipe without end fittings or restrictions.



Coupling Series Type SCP-C

Intended for the cleaning of hose assemblies or the removal of loose contamination from pipe, tube or hose.



Abrasive Series Type SCP-A

Intended for the internal cleaning of metal pipe and tube to remove light contaminants (rust and scale).



Grinding Series Type SCP-G

Intended for the internal cleaning of metal pipe and tube to remove medium and heavy contamination (rust and scale).



Size	Pipe / Tu	be / Hose ID	Standard Serie	s (SCP-S)	Coupling Series	s (SCP-C)	Abrasive Series	s (SCP-A)	Grinding Series	(SCP-G)
	(mm)	(in)	Item No	Designation	Item No	Designation	Item No	Designation	Item No	Designation
07	4.8	3/16	1910021294	SCP-S-07-V100	1910021282	SCP-C-07-V100	1910021274	SCP-A-07-V100	1910021286	SCP-G-07-V100
10	6.4	1/4	1910021296	SCP-S-10-V100	1910003718	SCP-C-10-V100	1910021275	SCP-A-10-V100	1910021287	SCP-G-10-V100
12	7.9	5/16	1910021297	SCP-S-12-V100	1910003719	SCP-C-12-V100	1910003758	SCP-A-12-V100	1910003766	SCP-G-12-V100
14	9.5	3/8	1910021298	SCP-S-14-V100	1910003757	SCP-C-14-V100	1910003759	SCP-A-14-V100	1910003767	SCP-G-14-V100
16	11.1	7/16	1910003746	SCP-S-16-V100	1910003720	SCP-C-16-V100	1910003760	SCP-A-16-V100	1910003768	SCP-G-16-V100
18	12.7	1/2	1910021299	SCP-S-18-V100	1910003344	SCP-C-18-V100	1910003761	SCP-A-18-V100	1910003769	SCP-G-18-V100
20	14.3	9/16	1910021300	SCP-S-20-V100	1910003721	SCP-C-20-V100	1910003762	SCP-A-20-V100	1910003770	SCP-G-20-V100
22	15.9	5/8	1910021301	SCP-S-22-V100	1910003722	SCP-C-22-V100	1910003763	SCP-A-22-V100	1910003771	SCP-G-22-V100
26	19.1	3/4	1910021302	SCP-S-26-V50	1910003345	SCP-C-26-V50	1910003764	SCP-A-26-V50	1910003772	SCP-G-26-V50
30	22.2	7/8	1910021303	SCP-S-30-V40	1910003724	SCP-C-30-V40	1910003779	SCP-A-30-V40	1910003780	SCP-G-30-V40
33	25.4	1	1910021304	SCP-S-33-V40	1910003725	SCP-C-33-V40	1910021276	SCP-A-33-V40	1910021288	SCP-G-33-V40
36	26 / 27	1-1/16	1910021305	SCP-S-36-V30	1910021283	SCP-C-36-V30	1910021277	SCP-A-36-V30	1910021289	SCP-G-36-V30
40	31.8	1-1/4	1910021306	SCP-S-40-V30	1910003726	SCP-C-40-V30	1910021278	SCP-A-40-V30	1910021290	SCP-G-40-V30
45	34.9	1-3/8	1910021307	SCP-S-45-V20	1910021284	SCP-C-45-V20	1910021279	SCP-A-45-V20	1910021291	SCP-G-45-V20
50	38.1	1-1/2	1910021308	SCP-S-50-V20	1910003727	SCP-C-50-V20	1910021280	SCP-A-50-V20	1910021292	SCP-G-50-V20
60	50.8	2	1910021309	SCP-S-60-V15	1910003728	SCP-C-60-V15	1910021281	SCP-A-60-V15	1910021293	SCP-G-60-V15

Please note: For optimum cleaning, it is recommended that projectiles are used once and then discarded and disposed of in an appropriate way.

Safety note: A mesh collection bag should be secured to the pipe, tube or hose exit to avoid possible injury to personnel by the projectile exiting at high velocity.

Always wear protective safety glasses, ear protection and a dust mask when operating this system.





STAUFF Serviceline Plugs



STAUFF Serviceline plugs offer an environmental and material protection system preventing oil and chemical spills and

Applications in hydraulic maintenance, heavy industry, offshore, forestry, construction, lifting, shipping, demolition, military, transportation, automotive, motorcycles.

STAUFF Aqualine Plugs



STAUFF Aqualine plugs are the optimal tool for any water based usage

Applications range from sanitary/plumbing works through to heating, boilers, radiators. All hoses and piping systems in and outdoors.

STAUFF Foodline Plugs



STAUFF Foodline plugs are produced from an FDA approved material. Foodline is to be used where mediums like food, drinks and pharmacies are involved.

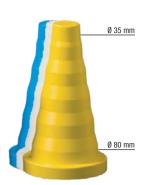
Applications are in commercial and industrial areas such as restaurant, bar, café, hotel, private homes, dairy, brewery, bakery, chemical factory.

Plug Sizes:

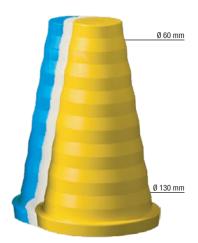
■ STAUFF Serviceline Plugs

STAUFF Aqualine Plugs

☐ STAUFF Foodline Plugs



INDUSTRIAL: 35-80 mm



INDUSTRIAL: 60-130 mm

Packaging Quantities:



Ø 1 mm

Ø 10 mm

MICRO: 1-10 mm

MICRO: 20 pieces



Ø 5 mm

Ø 22 mm

STD: 5-22 mm

STD:10 pieces



Ø 13 mm

Ø 42 mm

XL:13-42 mm

XL: 4 pieces



MIXBOX: 4 x MICRO, 4 x STD, 2 x XL





INDUSTRIAL 35-80: 1 piece INDUSTRIAL 60-130: 1 piece

3 Easy Steps

Insert











STAUFF Serviceline Plug Type SSP-..-YE



SSP-01/10-YE-PK20

SSP-05/22-YE-PK10

SSP-13/42-YE-PK4

SSP-35/80-YE

SSP-60/130-YE

SSP-01/42-YE-MIXB0X

TAUFF Aqualine Plu /pe SSPBL	ig 1144
em No.	Designation

31.	
Item No.	Designation
6100107832	SSP-01/10-BL-PK20
6100107831	SSP-05/22-BL-PK10
6100107967	SSP-13/42-BL-PK4
6100107972	SSP-01/42-BL-MIXB0X
6100107973	SSP-35/80-BL
6100107974	SSP-60/130-BL

STAUFF Foodline Plug Type SSP-..-WH

Item No.	Designation
6100108058	SSP-01/10-WH-PK20
6100108096	SSP-05/22-WH-PK10
6100108113	SSP-13/42-WH-PK4
6100108134	SSP-01/42-WH-MIXB0X
6100108138	SSP-35/80-WH
6100108139	SSP-60/130-WH

2020073453

2020067695

2020067696

2020076472

6100108136

6100108137