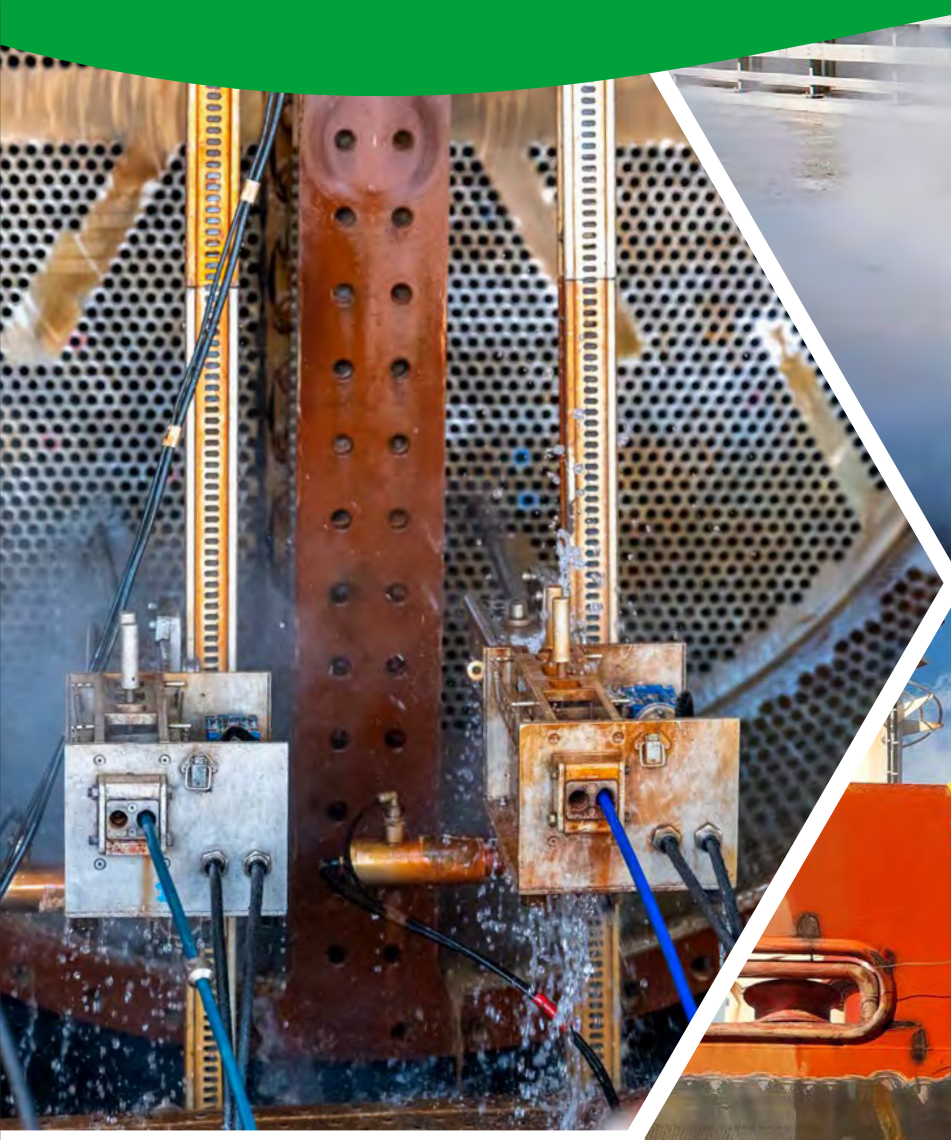

WATERBLAST HOSES

PRODUCT OVERVIEW

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SPIR STAR®

HIGH PRESSURE PERFORMANCE

COMPANY

SPIR STAR® AG is a globally leading manufacturer of thermoplastic ultra-high-pressure hoses with spiraled steel wire for pressures ranging from 250 to 4,000 bar. Our product range is complemented by high-pressure valves, adapters, tubes, and couplings to provide our customers with a comprehensive solution in the ultra-high-pressure sector.

Our products stand for the highest quality, durability, and safety. They are certified according to international standards such as EN 1829-2 and ISO 19880-5 and meet the demanding requirements of various industries – from waterjet technology and the hydrogen industry to hydraulics, oil & gas, and the automotive sector.

With our many years of experience, innovative technologies, and excellent customer service, SPIR STAR® is a reliable partner for high-pressure applications worldwide.

As a company, we are aware of our responsibility towards the environment and resources and are ISO 14001 certified.

APPLICATIONS

TUBE CLEANING

TANK CLEANING

SURFACE-PREPARATION

CUTTING

DuraLife Flex® Outer Cover – Longer Durability, Maximum Performance

To increase the abrasion resistance of the hose outer cover in challenging applications, we have developed our more robust **DuraLife Flex®** hose cover. Thanks to an innovative manufacturing process, abrasion of the outer cover is significantly reduced during use, leading to a considerably extended service life of the hose assembly.

Ultra-High-Pressure – Maximum Performance for Extreme Pressures

The **UHP®** (Ultra-High-Pressure) hose series has been designed for applications with extremely high pressures of up to 4,000 bar. The perfect combination of maximum pressure and high flow rate ensures particularly efficient and thorough cleaning.

Double Cover – Extended Service Life with a second Outer Cover

As an alternative to traditional PVC protective hoses, we have developed our **Double Cover**. This involves the application of a second outer cover to the hose. This not only provides additional protection for the hose assembly, extending its service life, but also results in weight savings. Additionally, longer hose lengths are possible.

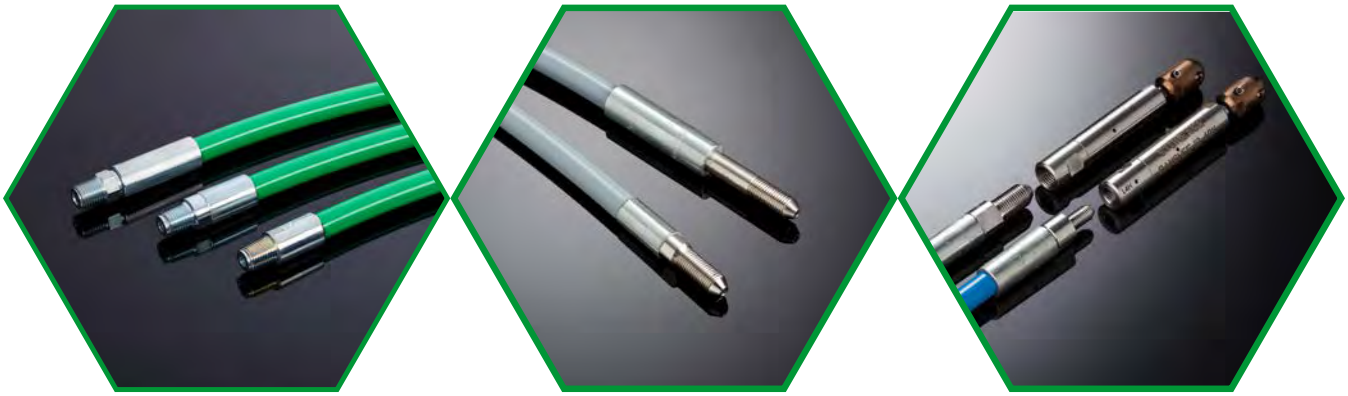
Product Overview - Waterblasting

Type	Hose Size				Pressure Rating				Bend Radius		Weight		Insert ID		Sleeve OD	
	ID		OD		Working		Burst									
	[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[mm]	[in]	[kg/m]	[lbs/ft]	[mm]	[in]	[mm]	[in]
Tube Cleaning up to 1.200 bar / 17.400 psi																
Application:	Heat exchanger tube cleaning, cleaning with automated rigid lances, flex lances or manual rigid lances															
3/2	3,4	0,13	6,9	0,27	1.000	14.500	2.500	36.250	60	2,36	0,072	0,048	2,0	0,08	8,9	0,35
3/2-1100	3,4	0,13	7,0	0,28	1.100	15.950	2.750	39.875	60	2,36	0,072	0,048	2,0	0,08	8,9	0,35
4/2	4,0	0,16	8,0	0,31	1.200	17.400	3.000	43.500	75	2,95	0,110	0,074	2,5	0,10	10,1	0,39
5/2	5,0	0,20	9,4	0,37	1.040	15.080	2.600	37.700	95	3,74	0,125	0,084	3,0	0,12	12,9	0,50
5/3	5,0	0,20	10,3	0,41	1.120	16.240	2.800	40.600	95	3,74	0,218	0,146	3,0	0,12	12,9	0,50
6/2	6,3	0,25	11,5	0,45	1.000	14.500	2.500	36.250	110	4,33	0,175	0,117	4,0	0,16	13,9	0,54
6/2-1100	6,3	0,25	11,6	0,46	1.100	15.950	2.750	39.875	110	4,33	0,175	0,117	4,0	0,16	13,9	0,54
6/3	6,1	0,24	12,3	0,48	1.040	15.080	2.600	37.700	110	4,33	0,280	0,188	4,0	0,16	14,1	0,55
8/2	8,1	0,32	13,3	0,52	900	13.050	2.250	32.625	130	5,12	0,200	0,134	5,5	0,22	17,8	0,70
8/2-1000	8,1	0,32	13,3	0,52	1.000	14.500	2.500	36.250	110	4,33	0,200	0,134	5,5	0,22	17,8	0,70
10/2	10,1	0,40	15,5	0,61	690	10.005	1.725	25.010	160	6,30	0,280	0,188	6,5	0,26	20,8	0,81
13/2	12,9	0,51	19,3	0,76	690	10.005	1.725	25.010	200	7,87	0,435	0,291	8,5	0,33	26,0	1,02
16/4	16,0	0,63	25,5	1,00	1.040	15.080	2.600	37.700	250	9,84	1,002	0,671	10,5	0,41	32,7	1,28
20/2	19,0	0,75	26,2	1,03	520	7.540	1.300	18.850	240	9,45	0,750	0,503	13,0	0,51	34,2	1,34
20/4	18,8	0,74	28,8	1,13	1.040	15.080	2.600	37.700	250	9,84	1,350	0,905	13,0	0,51	36,9	1,45
25/2	24,8	0,98	33,5	1,32	440	6.380	1.100	15.950	300	11,81	0,950	0,636	16,5	0,65	40,0	1,57
25/4	24,8	0,98	36,3	1,43	900	13.050	2.250	32.625	300	11,81	1,715	1,149	19,0	0,75	45,9	1,80
8/4HW-1000	8,0	0,31	14,6	0,57	1.000	14.500	3.800	55.100	200	7,87	0,390	0,261	4,5	0,18	20,3	0,79
Tube Cleaning up to 2.200 bar / 32.000 psi																
Application:	Heat exchanger tube cleaning,cleaning with automated rigid lances, flex lances or manual rigid lances															
4/2H-1400	4,0	0,16	8,1	0,32	1.400	20.300	3.500	50.750	75	2,95	0,112	0,075	2,5	0,10	10,1	0,39
4/4	4,0	0,16	10,3	0,41	2.200	31.900	5.500	79.750	90	3,54	0,234	0,157	1,8	0,07	14,7	0,57
5/2H-1400	4,9	0,19	9,5	0,37	1.400	20.300	3.500	50.750	95	3,74	0,148	0,099	3,0	0,12	12,9	0,50
5/4	5,0	0,20	11,2	0,44	1.800	26.100	4.500	65.250	150	5,91	0,260	0,174	2,5	0,10	15,0	0,59
6/4	6,3	0,25	12,6	0,50	1.500	21.750	3.800	55.100	180	7,09	0,295	0,198	3,5	0,14	16,4	0,64
6/4-1650	6,3	0,25	12,6	0,50	1.650	23.925	4.125	59.812	180	7,09	0,295	0,198	3,5	0,14	16,4	0,64
8/4	8,0	0,31	14,6	0,57	1.500	21.750	3.800	55.100	200	7,87	0,390	0,261	4,5	0,18	20,3	0,79
13/4H	12,8	0,50	22,0	0,87	1.400	20.300	3.500	50.750	200	7,87	0,880	0,590	7,5	0,30	29,5	1,16
Tube Cleaning up to 3.050 bar / 44.000 psi																
Application:	Heat exchanger tube cleaning, cleaning with automated rigid lances, flex lances or manual rigid lances															
3/6	3,0	0,12	9,1	0,36	2.800	40.600	7.000	101.500	150	5,91	0,222	0,149	1,8	0,07	15,3	0,60
4/6	4,0	0,16	11,5	0,45	2.800	40.600	7.000	101.500	175	6,89	0,365	0,245	1,8	0,07	17,1	0,67
4/4UHP-X-3035	4,0	0,16	9,9	0,39	3.035	44.000	6.100	88.450	90	3,54	0,234	0,157	2,5	0,10	14,7	0,58
5/6	4,8	0,19	13,2	0,52	2.500	36.250	6.250	90.625	200	7,87	0,450	0,302	2,5	0,10	17,8	0,70
5/6H	4,6	0,18	14,4	0,57	2.800	40.600	7.000	101.500	220	8,66	0,563	0,377	2,5	0,10	17,9	0,70
5/6HDC1	4,6	0,18	18,4	0,72	2.800	40.600	7.000	101.500	220	8,66	0,687	0,460	2,5	0,10	17,9	0,70
5/6UHP-X-3035	4,8	0,19	13,3	0,52	3.035	44.000	7.000	101.500	210	8,27	0,450	0,302	2,5	0,10	17,8	0,91
8/6UHP	7,6	0,30	19,3	0,76	2.800	40.600	7.000	101.500	300	11,81	1,055	0,707	4,5	0,18	23,7	0,93
13mmUHP	12,8	0,50	27,7	1,09	2.800	40.600	6.000	87.000	350	13,78	2,085	1,397	7,5	0,30	34,6	1,36
13mmUHPDC	12,8	0,50	32,1	1,26	2.800	40.600	6.000	87.000	350	13,78	2,280	1,532	7,5	0,30	34,6	1,36

Product Overview - Waterblasting

Type	Hose Size				Pressure Rating				Bend Radius		Weight		Insert ID		Sleeve OD	
	ID		OD		Working		Burst									
	[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[mm]	[in]	[kg/m]	[lbs/ft]	[mm]	[in]	[mm]	[in]
Tank Cleaning up to 2.500 bar / 36.250 psi																
Application: Tank and vessel cleaning, cleaning with booms																
8/6H	7,7	0,30	18,8	0,74	2.500	36.250	6.250	90.625	260	10,24	0,925	0,620	4,5	0,18	22,8	0,90
13/4H	12,8	0,50	22,0	0,87	1.400	20.300	3.500	50.750	200	7,87	0,880	0,590	7,5	0,30	29,5	1,16
Surface Preparation up to 4.000 bar / 58.000 psi																
Application: Concrete removal, surface cleaning, paint removal, cleaning with hydro mowers, hand-held surface cleaner or hand guns																
4/4UHP-X-3035	4,0	0,16	9,9	0,39	3.035	44.000	6.100	88.450	90	3,54	0,234	0,157	2,5	0,10	14,7	0,58
5/6H	4,6	0,18	14,4	0,57	2.800	40.600	7.000	101.500	220	8,66	0,563	0,377	2,5	0,10	17,9	0,70
5/6HDC1	4,6	0,18	18,4	0,72	2.800	40.600	7.000	101.500	220	8,66	0,687	0,460	2,5	0,10	17,9	0,70
5/6UHP-X-3035	4,8	0,19	13,3	0,52	3.035	44.000	7.000	101.500	210	8,27	0,450	0,302	2,5	0,10	17,8	0,91
5mmUHP	4,5	0,18	15,3	0,60	3.200	46.400	8.000	116.000	250	9,84	0,693	0,464	2,5	0,10	19,7	0,77
5mmUHP-X	4,5	0,18	15,3	0,60	4.000	58.000	8.000	116.000	250	9,84	0,693	0,464	2,5	0,10	19,7	0,77
6mmUHP	5,8	0,23	18,6	0,73	3.200	46.400	8.000	116.000	280	11,02	1,060	0,710	3,0	0,12	23,7	0,93
8/6H	7,7	0,30	18,8	0,74	2.500	36.250	6.250	90.625	260	10,24	0,925	0,620	4,5	0,18	22,8	0,90
8/6HDC1	7,7	0,30	22,8	0,90	2.500	36.250	6.250	90.625	260	10,24	1,085	0,727	4,5	0,18	22,8	0,90
8/6UHP	7,6	0,30	19,3	0,76	2.800	40.600	7.000	101.500	300	11,81	1,055	0,707	4,5	0,18	23,7	0,93
8/6UHP-X	7,6	0,30	19,3	0,76	3.035	44.000	7.000	101.500	300	11,81	1,055	0,707	4,5	0,18	23,7	0,93
8/6UHP-XDC	7,6	0,30	23,3	0,76	3.035	44.000	7.000	101.500	300	11,81	1,240	0,833	4,5	0,18	23,7	0,93
8mmUHP-X-3800	7,8	0,31	22,1	0,87	3.800	55.100	8.000	116.000	280	11,02	1,560	1,048	4,0	0,16	28,4	1,12
10mmUHP-X-3035	9,8	0,39	24,0	0,94	3.035	44.000	6.100	88.450	320	12,60	1,730	1,163	6,0	0,24	31,0	1,22
13/2WR	12,8	0,50	22,2	0,87	1.040	15.080	2.600	37.700	150	5,91	0,590	0,395	7,5	0,30	27,5	1,08
13/4H	12,8	0,50	22,0	0,87	1.400	20.300	3.500	50.750	200	7,87	0,880	0,590	7,5	0,30	29,5	1,16
13mmUHP	12,8	0,50	27,7	1,09	2.800	40.600	6.000	87.000	350	13,78	2,085	1,397	7,5	0,30	34,6	1,36
13mmUHPDC	12,8	0,50	32,1	1,26	2.800	40.600	6.000	87.000	350	13,78	2,280	1,532	7,5	0,30	34,6	1,36
16mmUHP	15,9	0,63	31,8	1,25	2.000	29.000	5.000	72.500	400	15,75	2,523	1,690	10,5	0,41	38,0	1,49
20/6	18,8	0,74	32,8	1,29	1.400	20.300	3.500	50.750	350	13,78	2,170	1,454	13,0	0,51	42,9	1,68
20/6-1600	18,8	0,74	32,8	1,29	1.600	23.200	4.000	58.000	350	13,78	2,170	1,454	13,0	0,51	42,9	1,68
25/6	24,8	0,98	39,8	1,57	1.400	20.300	3.000	43.500	600	23,62	2,800	1,876	17,5	0,69	49,0	1,92
Cutting and Demolition up to 3.200 bar / 46.400 psi																
Application: Cutting and demolition of armoured concrete, pipelines, paper or steel, cleaning with hand guns, cutting systems																
3/4	3,4	0,13	8,0	0,31	2.000	29.000	5.000	72.500	110	4,33	0,135	0,090	2,0	0,08	12,1	0,47
3/4-2100	3,4	0,13	8,1	0,32	2.100	30.450	5.250	76.215	110	4,33	0,135	0,090	2,0	0,08	12,1	0,47
3/6	3,0	0,12	9,1	0,36	2.800	40.600	7.000	101.500	150	5,91	0,222	0,149	1,8	0,07	15,3	0,60
4/6	4,0	0,16	11,5	0,45	2.800	40.600	7.000	101.500	175	6,89	0,365	0,245	1,8	0,07	17,1	0,67
4/8	4,0	0,16	12,8	0,50	3.200	46.400	8.000	116.000	175	6,89	0,540	0,362	1,8	0,07	19,5	0,76
8/6H	7,7	0,30	18,8	0,74	2.500	36.250	6.250	90.625	260	10,24	0,925	0,620	4,5	0,18	22,8	0,90
8/6HDC1	7,7	0,30	22,8	0,90	2.500	36.250	6.250	90.625	260	10,24	1,085	0,727	4,5	0,18	22,8	0,90
13mmUHP	12,8	0,50	27,7	1,09	2.800	40.600	6.000	87.000	350	13,78	2,085	1,397	7,5	0,30	34,6	1,36
13mmUHPDC	12,8	0,50	32,1	1,26	2.800	40.600	6.000	87.000	350	13,78	2,280	1,532	7,5	0,30	34,6	1,36
20/6	18,8	0,74	32,8	1,29	1.400	20.300	3.500	50.750	350	13,78	2,170	1,454	13,0	0,51	42,9	1,68
20/6-1600	18,8	0,74	32,8	1,29	1.600	23.200	4.000	58.000	350	13,78	2,170	1,454	13,0	0,51	42,9	1,68

TUBE CLEANING FITTINGS



SPIR STAR FITTING DESIGN FOR TUBE CLEANING

Our innovative tube cleaning fittings offer maximum efficiency and outstanding performance for demanding cleaning tasks. Thanks to their compact design and state-of-the-art technology, they optimize the cleaning process and significantly reduce operation times.

YOUR BENEFITS AT A GLANCE:

Compact Design: Reduces the outer diameter of the fitting compared to standard fittings, making it easier to clean small pipes and navigate tight pipe bends.

Increased Efficiency: By allowing the use of larger hose inner diameters, cleaning performance is significantly improved, and operation times are further reduced.

OnePiece Fittings®: Designed for operating pressures from **900 bar to 1,400 bar.**

Blast-Pro®: Designed for operating pressures from **1,500 bar to 3,035 bar.**

Special Fitting: Specifically designed for use with a **Banshee nozzle from StoneAge**. Suitable for pressures **up to 2,800 bar**.

Easy Handling:
The optimized design simplifies nozzle installation.

ACCESSORIES

The accessories complement your hose assembly and provide increased safety and service life

1. **Protection Hose:** abrasive protection
2. **Bend Restrictor:** prevents „buckling“ and tensioning of the hose, adjusted to hose assembly
3. **Hose Securing Grip:** secures high-pressure hoses which are connected to the pump or aggregate - prevent whipping of the hose assemblies in case of hose failure
4. **Adapters and Tubing:** complement your assembly with various connection combinations: adapters, elbows, tees, crosses and tubing
5. **Stop Sleeves and Marking Rings:** relevant safety item for automated and manuel cleaning for Waterblast standards

SPIR STAR®

GERMANY
Headquarters
SPIR STAR® AG

USA
SPIR STAR® Ltd.

FRANCE
SPIR STAR® FRANCE SAS

ASIA
SPIR STAR® ASIA PTE Ltd.

CHINA
SPIR STAR® CHINA CO., Ltd.

SPIR STAR® AG - WORLDWIDE

www.spirstar.de

SPIR STAR® AG
Auf der Rut 7
64668 Rimbach
GERMANY
info@spirstar.de

SPIR STAR® FRANCE SAS
6, rue Clément Ader
67500 Haguenau
FRANCE
spirstar@spirstar.fr

SPIR STAR® Ltd.
10002 Sam Houston Center Dr.
Houston, 77064 TX
USA
sales@spirstar.com

SPIR STAR® ASIA PTE. Ltd.
16 Kian Teck Dr
Singapur 628833
ASIA
sales@spirstarasia.com

SPIR STAR® CHINA CO., Ltd.
#10 Building No.1699 Duhui Rd.
201108, Shanghai
CHINA
sales@spirstarchina.com