

Applications

Hydraulics: Bolt Tensioning Tools, Hydraulic Jacks, Tooling Panels

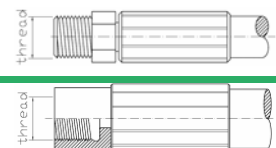
Inner Core: Polyamide (PA)
Pressure Support: multi layers of high-tensile steel wire and open synthetic fibrons
Outer Cover: Polyurethane (PUR)
Colour: luminous yellow, other colours upon request
Temperature: -22°F to 140°F [-30°C to +60°C]



Ø ID	Ø OD	Working Pressure*)	Min. Burst Pressure	Min. Bend Radius	Weight	Nipple Ø ID	Sleeve	Sleeve Ø OD
0,24 inch	0,49 inch	10.150 psi	26.100 psi	3,15 inch	0,138 lbs/ft	0,16 inch	VIPER-S carbon steel	0,57 inch
6,1mm	12,5 mm	700 bar	1.800 bar	80 mm	0,206 kg/m	4,0 mm		14,4 mm

Fittings:

Description	Size	Material	Part Number
male fitting	1/4"x18 NPTF	carbon steel	VIPER-M-1/4x18NPTF
male fitting	3/8"x18 NPTF	carbon steel	VIPER-M-3/8x18NPTF
female fitting	1/4"x18 NPTF	carbon steel	VIPER-F-1/4x18NPTF



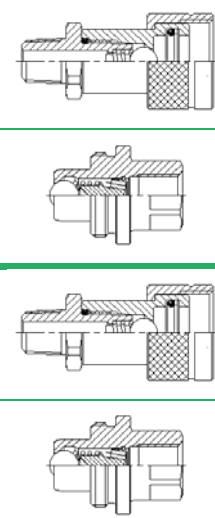
---- Additional fittings are available upon request. ----

Bend restrictor shown below is suitable for hose type 

Description	Size	Material	Part Number
bend restrictor	30x14,5mm	rubber	1.9518600
crimp ring	30mm	carbon steel	1003135

The  hose is usable for the following SPIR STAR coupler:

Description	Thread/Size (hose connection)	Material	Part Number
High Pressure Screw Coupler max WP 700 bar	male 1/4" NPT	carbon steel	C-700-1452
Metal cap for 700 bar for coupler	male 1/4" NPT	carbon steel	C-700-1452-m-cap
High Pressure Plug max WP 700 bar	female 1/4" NPT	carbon steel	C-700-6402
Metal cap for 700 bar for plug	female 1/4" NPT	carbon steel	C-700-6402-fm-cap
High Pressure Screw Coupler max WP 700 bar	male 3/8" NPT	carbon steel	C-700-1454
Metal cap for 700 bar for coupler	male 3/8" NPT	carbon steel	C-700-1454-m-cap
High Pressure Plug max WP 700 bar	female 3/8" NPT	carbon steel	C-700-6404
Metal cap for 700 bar for plug	female 3/8" NPT	carbon steel	C-700-6404-fm-cap



*) Production related variations up to 5 % are possible

*) The safety factors between the burst pressure and the working pressure as well as the test pressure depend on the operating conditions. For gaseous media the outer cover is to be pinpricked. Regarding the safety factor for gaseous media please contact your local SPIR STAR[®] assembling center. The indicated working pressure refers to the hose only. Depending on the used fitting the permitted working pressure of a hose assembly can be less. We reserve our rights for changes without notice.



Hose Type **Viper twin**



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Inner Core: Polyamide (PA)
Pressure Support: multi- layers of high-tensile steel wire and open synthetic fibrons
Outer Cover: Polyurethane (PUR)
Colour: luminous yellow and purple red, other colours upon request
Temperature: -22°F to 140°F [-30°C to +60°C]



Ø ID	Ø OD	Working Pressure*)	Min. Burst Pressure	Min. Bend Radius	Weight	Nipple Ø ID	Sleeve	Sleeve Ø OD
0,24 inch	0,49 inch	10.150 psi	26.100 psi	3,15 inch	0,276 lbs/ft	0,16 inch	VIPER-S carbon steel	0,57 inch
6,1mm	12,5 mm	700 bar	1.800 bar	80 mm	0,412 kg/m	4,0 mm		14,4 mm

Fittings:

Description	Size	Material	Part Number
male fitting	1/4"x18 NPTF	carbon steel	VIPER-M-1/4x18NPTF
male fitting	3/8"x18 NPTF	carbon steel	VIPER-M-3/8x18NPTF
female fitting	1/4"x18 NPTF	carbon steel	VIPER-F-1/4x18NPTF

---- Additional fittings are available upon request. ----

Bend restrictor shown below is suitable for hose type **Viper-Twin**:

Description	Size	Material	Part Number
bend restrictor	30x14,5mm	rubber	1.9518600
crimp ring	30mm	carbon steel	1003135

The **Viper-Twin** hose is usable for the following SPIR STAR coupler:

Description	Thread/Size (hose connection)	Material	Part Number
High Pressure Screw Coupler max WP 700 bar	male 1/4" NPT	carbon steel	C-700-1452
Metal cap for 700 bar for coupler	male 1/4" NPT	carbon steel	C-700-1452-m-cap
High Pressure Plug max WP 700 bar	female 1/4" NPT	carbon steel	C-700-6402
Metal cap for 700 bar for plug	female 1/4" NPT	carbon steel	C-700-6402-fm-cap
High Pressure Screw Coupler max WP 700 bar	male 3/8" NPT	carbon steel	C-700-1454
Metal cap for 700 bar for coupler	male 3/8" NPT	carbon steel	C-700-1454-m-cap
High Pressure Plug max WP 700 bar	female 3/8" NPT	carbon steel	C-700-6404
Metal cap for 700 bar for plug	female 3/8" NPT	carbon steel	C-700-6404-fm-cap

*) Production related variations up to 5 % are possible

*) The safety factors between the burst pressure and the working pressure as well as the test pressure depend on the operating conditions. For gaseous media the outer cover is to be pinpricked. Regarding the safety factor for gaseous media please contact your local SPIR STAR[®] assembling center. The indicated working pressure refers to the hose only. Depending on the used fitting the permitted working pressure of a hose assembly can be less. We reserve our rights for changes without notice.

