

## VALVES | FITTINGS TUBING | COUPLERS

690 bar to 4.140 bar (10.000 psi to 60.000 psi)

**S**★ Product Overview

**SPIR STAR®**

HIGH PRESSURE PERFORMANCE

SPIR STAR® offers premium-quality VALVES for various applications such as in test facilities and plant construction. Here, needle valves, ball valves, check valves, relief valves and pneumatically operated valves are part of our product portfolio.

## NEEDLE VALVES

Besides standard needle valves, which can be opened by 4 ½ turns, SPIR STAR® offers quick-opening needle valves as an alternative. These valves can be opened by just 1 ¾ turns.

Pneumatic drives are also possible for all needle valves.



<b>Thread types:</b>	High-Pressure, Medium-Pressure and NPT
<b>Body styles:</b>	Two-Way Straight, Two-Way Angle, Three-Way (two on pressure), Three-Way (one on pressure), Three-Way Two Stem, replaceable seat
<b>Max. working pressure:</b>	4.140 bar   60.000 psi
<b>Material:</b>	316 stainless steel body, 17-4PH stem and aluminium handle
<b>Temperature range:</b>	-18°C to +204°C   0°F to 400°F
<b>Options:</b>	Air operated valves, quick open valves (1 ¾ turns only), various materials, repair kit, stainless steel handle

## BALL VALVES

In order to increase the quality and service life of the valves, SPIR STAR® offers trunnion-style ball valves.

Pneumatic and electric drives are also available upon request.



<b>Thread types:</b>	High-Pressure, Medium-Pressure and NPT
<b>Flow patterns:</b>	Two-Way Straight, Three-Way Switching, Three-Way/Diverting
<b>Max. working pressure:</b>	1.380 bar   20.000 psi
<b>Material:</b>	316 stainless steel body
<b>Temperature range:</b>	-28°C to +204°C   -20°F to 400°F
<b>Options:</b>	different orifice sizes are possible, different materials, air operated valves, repair kit

## ULTRA-HIGH-PRESSURE VALVES | FITTINGS | TUBING | COUPLERS

SPIR STAR® AG is an international leader in the manufacture of thermoplastic ultra-high-pressure hoses with spiralized reinforcement made of steel wire suitable for pressures ranging from 250 bar to 4,000 bar and with inner diameters ranging from 3 mm to 32 mm. The company is firmly established in the industrial segments of water blasting, hydraulics, hydrogen, oil & gas and the automotive industry.

As a reliable partner of the high-pressure area, SPIR STAR® completes its product portfolio by valves, fittings, tubing and couplers (VFT) for high-pressure applications. The valves with a maximum working pressure of 4,140 bar have been specially developed for applications with liquid and gaseous media and are available as needle, ball, relief or check valves with a great variety of thread types and sizes. In addition to this, SPIR STAR® AG offers various quick-disconnect couplings as cross-industrial solutions for working pressures of up to 2,070 bar. Fittings and tubing provide flexible connection and adaptation possibilities for applications with liquid and gaseous media in the areas of oil & gas, hydraulics and in the water-blasting industry.

SPIR STAR®'s VFT products are mainly made of cold-forged stainless steel in order to resist the high temperatures and pressures typical of these applications.

Since 1989, SPIR STAR®, headquartered in Rimbach, has been offering highest product quality combined with outstanding customer service.

### ADAPTER

SPIR STAR® offers a great variety of fittings and couplings with various thread combinations. Unless otherwise specified, the articles are made of grade 316 stainless steel as a standard.



<b>Thread types:</b>	High-Pressure, Medium-Pressure, Type-M, Metric, BSPP, NPT and JIC
<b>Max. working pressure:</b>	4.140 bar   60.000 psi
<b>Connections:</b>	Male x Male, Female x Female, Female x Male
<b>Product types:</b>	Adapters, Union Couplings, Bulkheads, Slimline Couplers, Nipples, Plugs, Caps, Gland Nuts, Collars, Anti-Vibration Gland & Collar Assemblies
<b>Elbows, Tees, Crosses:</b>	Available in High-Pressure, Medium-Pressure and NPT

## CHECK VALVES

Check valves prevent return flow and damage to the pressure system. The ball check valve is metal-to-metal sealing and is used in high temperatures and dynamic applications.

The opening pressure of all check valves is 1 bar.

The O-ring check valve is frequently used in gas applications.



<b>Thread types:</b>	High-Pressure, Medium-Pressure and NPT
<b>Max. working pressure:</b>	4.140 bar   60.000 psi
<b>Material:</b>	316 stainless steel body
<b>Temperature range:</b>	Soft seated: -46°C to +204°C   -50°F to 400°F Ball seated: -80°C to +260°C   -110°F to 500°F

## RELIEF VALVES

Relief valves can prevent pressure peaks in systems.

All valves are manually adjustable.



<b>Material:</b>	316 stainless steel body		
<b>Temperature range:</b>	-28°C to +150°C   -20°F to 300°F		
<b>Options:</b>	Inlet: 1/4" High-Pressure	Outlet: 1/4" NPT	WP: 1.380 bar   20.000 psi
	Inlet: 1/4" NPT	Outlet: 1/4" NPT	WP: 690 bar   10.000 psi

## SPEZIAL-VALVES

Double-block and bleed valves as well as manifolds are also available upon request.

## TUBING

The standard length of SPIR STAR® tubing is 6 meters.

If required, the tubing can be cut to any length.

<b>Thread types:</b>	1/4" - 9/16" High-Pressure 1/4" - 1" Medium-Pressure
<b>Max. working pressure:</b>	4.140 bar   60.000 psi
<b>Material:</b>	316 stainless steel body
<b>Temperature range:</b>	-28°C to +204°C   -20°F to 400°F





SPIR STAR® couplings are used in the areas of hydraulics, oil & gas and in the water-blasting industry.

## SPC-QUICK DISCONNECT COUPLERS

<b>Thread types:</b>	High-Pressure, Medium-Pressure, Type-M, NPT and JIC
<b>Max. working pressure:</b>	2.070 bar   30.000 psi
<b>Material:</b>	316 stainless steel body
<b>Bore size:</b>	6 mm



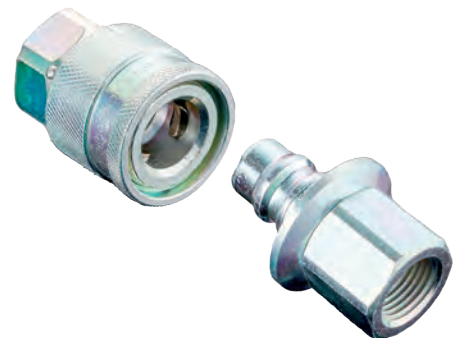
## QRC-QUICK DISCONNECTORS

<b>Thread types:</b>	BSPP Female for 100° cone, NPT Female
<b>Max. working pressure:</b>	1.500 bar   21.750 psi
<b>Material:</b>	High tensile steel with anti-corrosion finish, NBR sealing
<b>Temperature range:</b>	-25°C to +100°C   -10°F to 210°F
<b>Visual check:</b>	Safety ring



## PUSH/PULL-QUICK DISCONNECTORS

<b>Thread types:</b>	NPT
<b>Max. working pressure:</b>	690 bar   10.000 psi
<b>Material:</b>	Steel



## SCREW TYPE QUICK DISCONNECTS

<b>Thread types:</b>	Medium-Pressure, NPT
<b>Max. working pressure:</b>	1.380 bar   20.000 psi
<b>Material:</b>	Stainless steel





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