

PSV / PRV Valves

Order: 832.277.1182
sales@hydrorex.com

Technical Datasheet

**MODEL: SV500**

- Adjustable Range 80-7250 Psi
- Release Flow: 80 Lpm
- Pressure Inlet Port 1/2" Female NPT
- Release Port: 3/8" Female NPT
- Material: Brass

**MODEL: SV350**

- Adjustable Range 1000-5057 Psi
- Release Flow: 25 Lpm
- Pressure Inlet Port 3/8" Female NPT
- Release Port: 3/8" Female NPT
- Material: Stainless 316 / Nut Brass

**MODEL: UD555F-YE**

- Adjustable Range 200-2000 Psi
- Release Flow: 26 Lpm
- Pressure Inlet Port 3/8" Female NPT
- Release Port: 3/8" Female NPT
- Material: Brass

**MODEL: UD500F-BLUE**

- Adjustable Range 50-500 Psi
- Release Flow: 26 Lpm
- Pressure Inlet Port 3/8" Female NPT
- Release Port: 3/8" Female NPT
- Material: Brass

**MODEL: UD555F-SS-YE**

- Adjustable Range 200-2000 Psi
- Release Flow: 26 Lpm
- Pressure Inlet Port 3/8" Female NPT
- Release Port: 3/8" Female NPT
- Material: Stainless Steel 316

Relief Valve - Liquids & Gases



SPIR STAR relief valves are made to the highest quality standards and thus achieve high safety and a long service life even under difficult operating conditions. The valves can be used with both gaseous and liquid media.

All relief valves are manually adjustable.

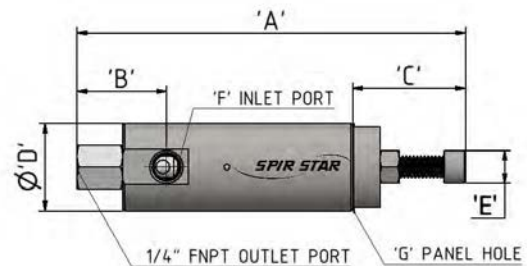
Technical Data:

Material:	Body: 316 Stainless Steel
Max. Working Pressure:	1.380 bar // 20.000 psi
Temperature:	-45°C bis +150°C

PSV (Pressure Safety Valve) 0-1000 PSI to 10,000 PSI

Part Number	Thread Description	Thread Description	Tube Thread	Screw-in Thread	Orifice	Repair Kit	Suitable Tubing
SS-10RV-FA	NF4	NF4		1/4"	-		

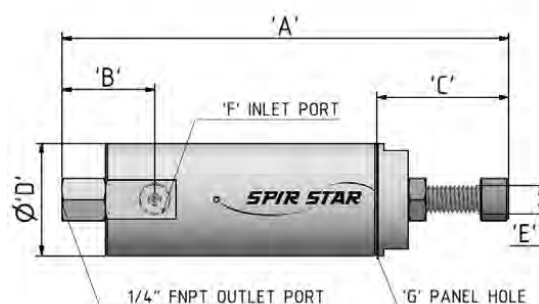
Part Number	Unit	Dimensions												
		A	B	C	DI	D2	E	F	G	H	I	J	K	L
SS-10RV-FA	mm	132,60	39,60	26,90	38,10	-	14,20	-	35,10	-	-	-	-	-
	inch	5,22	1,56	1,06	1,50	-	0,56	-	1,38	-	-	-	-	-



PSV (Pressure Safety Valve) 0-10,000 PSI to 20,000 PSI

Part Number	Thread Description	Thread Description	Tube Thread	Screw-in Thread	Orifice	Repair Kit	Suitable Tubing
SS-20RV-FA	HF4	NF4	1/4"x28UNF LH	9/16"x18UNF	-		TU-HP4-60K

Part Number	Unit	Dimensions												
		A	B	C	DI	D2	E	F	G	H	I	J	K	L
SS-20RV-FA	mm	191,80	54,10	42,70	50,80	-	14,20	-	41,40	-	-	-	-	-
	inch	7,55	2,13	1,68	2,00	-	0,56	-	1,63	-	-	-	-	-





Relief Valves

Metal Seat Relief Valves (Factory Set)

Relief valves are offered in pressure ranges: 1,500 through 60,000 psi.

Standard materials include 316 stainless steel bodies and removable seat glands with 17-4PH stainless steel removable stem and stem seats. Standard O-ring material on the stem is Viton. Valves may be used up to 400°F.

Inlet connections are for $\frac{9}{16}$ " O.D. tubing (HF9) with adapters for other sizes available. Outlet connections are $\frac{1}{2}$ " NPT.

These valves are not recommended for use below 1,500 psi, and are not readily adjustable in the field without proper test equipment. Pressure settings are made at the factory and valves are tagged accordingly.

To order, simply specify catalog number and set pressure.

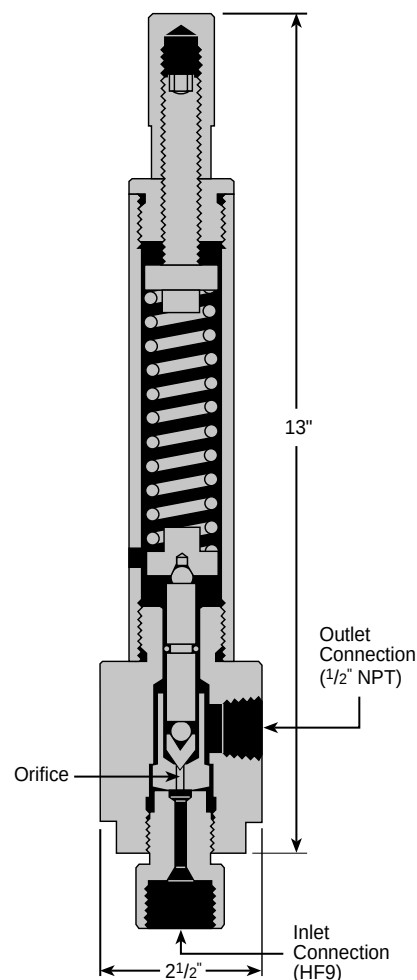
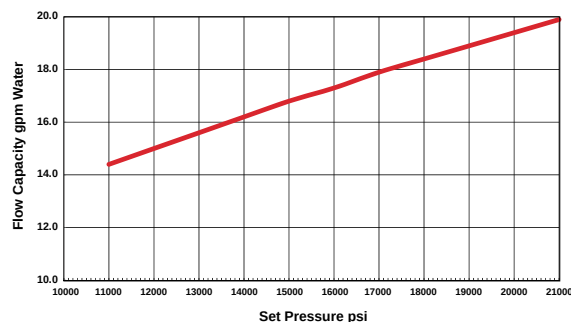
- Metal Seated - Catalog Number: 402633
- Minimum Temperature: 0°F
- Maximum Temperature with standard Viton O-ring: 400°F
- Maximum Temperature with Kalrez O-ring: 500°F

Metal Seat Relief Valves (Factory Set)

Pressure Range	Orifice Size	Type of Service*	Assembly Part No.	Max Flow Capacity H ₂ O (GPM)
1,500 to 2,999 psi	1/4"	GAS OR LIQUID	402633-03	13
3,000 to 10,999 psi	1/4"	GAS OR LIQUID	402633-10	25
11,000 to 20,999 psi	3/16"	GAS OR LIQUID	402633-20	20
21,000 to 30,000 psi	1/8"	GAS OR LIQUID	402633-30	10
30,001 to 45,000 psi	7/64"	GAS OR LIQUID	402633-45	10
45,001 to 60,000 psi	3/32"	GAS OR LIQUID	402633-60	8

*Valves not bubble tight on gas service.

402633-20 Relief Valve (Factory Set)



CE Marked Relief Valves

HiP relief valves are now available with CE marking. These products will proudly be marked with the CE symbol, signifying they comply with the stringent requirements of the Pressure Equipment Directive (PED). To order, add -CE to your relief valve part number.

RELIEF VALVES

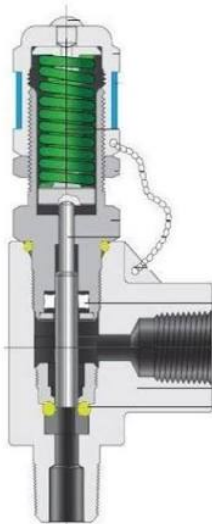
SRVH Series

FEATURES

- Compact design
- Cracking pressure adjustable externally
- Lock wire feature secures a given pressure setting
- Each and every valve is tested at the factory

SET PRESSURE

- Set pressure is the upstream pressure at which the first indication of flow occurs. Set pressure of each valve after initial relief is repeatable within $\pm 5\%$ at room temperature.

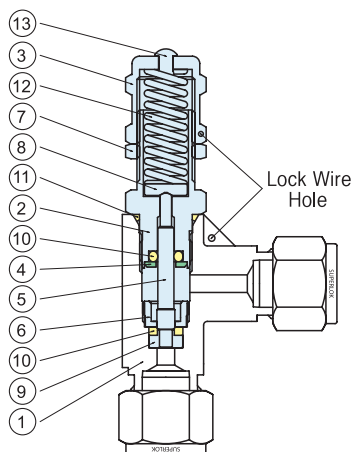


- ❖ Pressure Relief Valves Adjustable or Set
- ❖ Inlet Port: Pressure inlet 1/4" Male NPT
- ❖ Outlet Port: Pressure release 1/4" Female NPT
- ❖ Material: All Stainless ASTM A182 F316 - ISO Tapered
- ❖ Manufacturer: Superlok USA

SUPERLOKUSA

SRVH Series

High Pressure Relief Valve



TECHNICAL DATA

- Maximum working Pressure : 6000 psig (413 bar)
- Cracking Pressure Range : 225~6000 psig (15.5~414 bar)
- Orifice size: 4.8mm
- Multiple springs for a selection of set pressure ranges

SRVH Series Spring

Spring Designator	Spring Color	Cracking Pressure		
		psig	bar	kPa
Y	Yellow	225~750	15.5~51.5	1550~5150
P	Purple	750~1500	51.5~103	5150~10300
O	Orange	1500~2250	103~155	10300~15500
B	Brown	2250~3000	155~206	15500~20600
W	White	3000~4000	206~275	20600~27500
R	Red	4000~5000	275~344	27500~34400
G	Green	5000~6000	344~414	34400~41400

※ If required spring kit, mention part no : RVL - * - ex)RVH-Y

MATERIALS OF CONSTRUCTION

No.	Description	Material	No.	Description	Material
1	Body	SS 316	8	Spring Support	SS 316
2	Bonnet	SS 316	9	Stem Retainer	SS 316
3	Cracking Pressure Adjusting Nut	SS 316	10	O-Ring	Viton
4	Retainer	SS 316	11	O-Ring	Viton
5	Stem Shaft	SS 316	12	Spring	SS 304
6	Stem Guide	SS 316	13	Cap	Polypropylene
7	Lock Nut	SS 316			



HYDROREX

PSV / PRV Valves

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Cypress TX USA 77429



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Technical Datasheet

SAFETY PRESSURE RELIEF VALVES

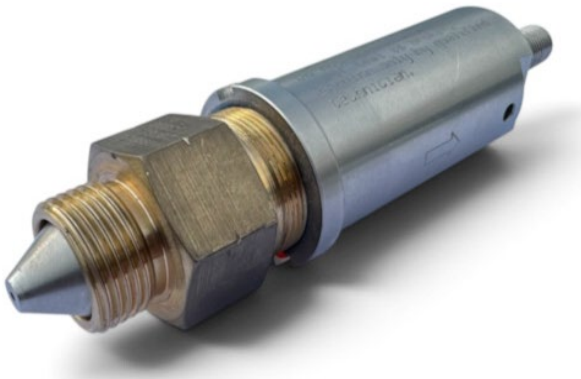
Inlet Connection 9/16-12 UNF – Ultra High pressure

MODEL: 5V241-55

- Adjustable Range: 30000-55000 Psi
- Pressure Inlet: Port 9/16" Male HP
- Release Port: 1/4" Male NPT
- Material: Stainless / Brass

MODEL: 5V241-40

- Adjustable Range: 20000-45000 Psi
- Pressure Inlet: Port 9/16" Male HP
- Release Port: 1/4" Male NPT
- Material: Stainless / Brass



Applications



- ◆ High-pressure water-jetting units
- ◆ Hydrostatic testing units
- ◆ Hydro-demolition
- ◆ Pipeline, vessel, and exchanger cleaning
- ◆ Skid-mounted and trailer-mounted pumping assemblies
- ◆ Offshore platform maintenance
- ◆ Surface preparation
- ◆ High-pressure wash-down stations

Engineered to Relieve
Pressure & Built to Protect

HydraBlast
technologies