

Relief Valves: Pressures to 75,000 psi (5170 bar)

Ordering and Specifications:

FIGURE 1: RVP & PRVP Metal Seat Series Relief Valve (PRVP is NPT Inlet version)

Catalog Number*	Connection Size and Type		Orifice Diameter Inches (mm)	Pressure Rating psi (bar) @ 100°F (38°C)			Dimension Inches (mm)	Repair Kit ¹
	Inlet Connection	Outlet Connection		Minimum Setting	Maximum Setting	Maximum Back Pressure	"A"	
5PRVP8072	1/2" FNPT	3/4 FNPT	0.312 (7.92)	3,000 (210)	5,000 (345)	500 (35)	10.47 (266)	R5PRVP
10PRVP8072	1/2" FNPT	3/4 FNPT	0.250 (6.35)	5,000 (345)	10,000 (690)	500 (35)	10.47 (266)	R10PRVP
15PRVP8072	1/2" FNPT	3/4 FNPT	0.188 (4.78)	10,000 (690)	15,000 (1035)	500 (35)	10.47 (266)	R15RVP
5RVP9072	SF562CX (9/16" MP)	3/4 FNPT	0.312 (7.92)	3,000 (210)	5,000 (345)	500 (35)	9.40 (238)	R5RVP
10RVP9072	SF562CX (9/16" MP)	3/4 FNPT	0.250 (6.35)	5,000 (345)	10,000 (690)	500 (35)	9.40 (238)	R10RVP
15RVP9072	SF562CX (9/16" MP)	3/4 FNPT	0.188 (4.78)	10,000 (690)	15,000 (1035)	500 (35)	9.40 (238)	R15RVP
20RVP9072	SF562CX (9/16" MP)	3/4 FNPT	0.156 (3.96)	15,000 (1035)	20,000 (1380)	500 (35)	9.40 (238)	R20RVP
30RVP6072	F375C (3/8" HP)	3/4 FNPT	0.125 (3.18)	15,000 (1035)	30,000 (2070)	500 (35)	9.52 (241)	R30RVP
45RVP9072	F562C (9/16" HP)	3/4 FNPT	0.093 (2.36)	25,000 (1725)	45,000 (3100)	500 (35)	9.52 (241)	R45RVP
60RVP6072	F375C (3/8" HP)	3/4 FNPT	0.078 (1.98)	30,000 (2070)	60,000 (4140)	500 (35)	9.52 (241)	R60RVP
75RVP5072	F312C150 (5/16" UHP)	3/4 FNPT	0.062 (1.57)	37,000 (2550)	75,000 (5170)	500 (35)	9.83 (249)	R75RVP

FIGURE 2: RVS & PRVS Soft Seat Series Relief Valve (PRVS is NPT Inlet version)

Catalog Number*	Connection Size and Type		Orifice Diameter Inches (mm)	Pressure Rating psi (bar) @ 100°F (38°C)			Dimension Inches (mm)	Repair Kit ¹
	Inlet Connection	Outlet Connection		Minimum Setting	Maximum Setting	Maximum Back Pressure	"A"	
5PRVS8072	1/2" FNPT	3/4 FNPT	0.312 (7.92)	1,500 (103)	5,000 (345)	500 (35)	10.47 (266)	R5PRVS
10PRVS8072	1/2" FNPT	3/4 FNPT	0.250 (6.35)	5,000 (345)	10,000 (690)	500 (35)	10.47 (266)	R10PRVS
15PRVS8072	1/2" FNPT	3/4 FNPT	0.188 (4.78)	10,000 (690)	15,000 (1035)	500 (35)	10.47 (266)	R15PRVS
5RVS9072	SF562CX (9/16" MP)	3/4 FNPT	0.312 (7.92)	1,500 (105)	5,000 (345)	500 (35)	9.40 (238.76)	R5RVS
10RVS9072	SF562CX (9/16" MP)	3/4 FNPT	0.250 (6.35)	5,000 (345)	10,000 (690)	500 (35)	9.40 (238.76)	R10RVS
20RVS9072	SF562CX (9/16" MP)	3/4 FNPT	0.156 (3.96)	10,000 (690)	20,000 (1378)	500 (35)	9.40 (238.76)	R20RVS

* Maximum pressure rating based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower. Note: For pressure rating see selection chart.

¹ Include suffix from original valve for correct options

Suffix	Relief Valve Options (add as suffix to Catalog number listed above)
HT	High Temperature Spring to 750°F (399°C) (RVP or PRVP Series only)
K	Antivibration Gland Fitting (Cone & Thread Connections)
HYG (RVS Only)	Modified for use with Hydrogen/Helium (seat surface and helium seat tested - no material changes)
CE	CE Mark/PED Category IV (not available with PRVP or PRVS models)
SOG	Materials used are NACE Capable & Hardness verified (Maximum pressure reduction possible)
2507	UNS S32750 2507 Super Duplex Wetted Materials
HC	UNS N10276 Hastelloy C-276 Wetted Materials
IN625	UNS N06625 Inconel 625 Wetted Materials

(See "Technical Brochure" for Pressure/Temperature effect on temperatures above ambient.)

Note: use of optional material only changes "wetted parts" to selected material. Items like collars and glands remain CW 316/316L SS. Use **-SOG** (Includes hardness check for NACE) or **-AP** suffix