

Water Relief Valves

A water relief valve is designed to relieve excessive pressures in a water supply system. It is also used in the discharge line of a fire pump to limit the pressure developed by the pump.

Approval specifications require that a valve, set to operate at 100 psi (690 kPa), will discharge the full rated pump capacity without permitting the pressure to rise above 125 psi (860 kPa). It is designed to permit the removal of all working parts without removing the valve from its pipe connections. Sufficient clearance of all moving parts prevents sticking and avoids faulty operation.

Model 50B-4KG1, 2050B-4KG1, 50B-4KG1KOL, 2050B-4KG1KOL

Product Specification

Model No	Valve Size		Description	End Connection	Rated Working Pressure		Relief Pressure Range		Remarks
	in	(mm)			psi	(kPa)	psi	(kPa)	
50B-4KG1 50B-4KG1KOL	3	(80)	Globe	Class 300 Flange Grooved Screwed	400	(2755)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g
50B-4KG1 50B-4KG1KOL	3	(80)	Globe	Class 150 Flange	250	(1720)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g
50B-4KG1 50B-4KG1KOL	4	(100)	Globe	Class 300 Flange Grooved	400	(2755)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g
50B-4KG1 50B-4KG1KOL	4	(100)	Globe	Class 150 Flange	250	(1720)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g
50B-4KG1 50B-4KG1KOL	6	(150)	Globe	Class 300 Flange Grooved	400	(2755)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g
50B-4KG1 50B-4KG1KOL	6	(150)	Globe	Class 150 Flange	250	(1720)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g
50B-4KG1 50B-4KG1KOL	8	(200)	Globe	Class 300 Flange Grooved	400	(2755)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g
50B-4KG1 50B-4KG1KOL	8	(200)	Globe	Class 150 Flange	250	(1720)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g
2050B-4KG1 2050B-4KG1KOL	3	(80)	Angle	Class 300 Flange Grooved Screwed	400	(2755)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g
2050B-4KG1 2050B-4KG1KOL	3	(80)	Angle	Class 150 Flange	250	(1720)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g

2050B-4KG1 2050B-4KG1KOL	4	(100)	Angle	Class 300 Flange Grooved	400	(2755)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g
2050B-4KG1 2050B-4KG1KOL	4	(100)	Angle	Class 150 Flange	250	(1720)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g
2050B-4KG1 2050B-4KG1KOL	6	(150)	Angle	Class 300 Flange Grooved	400	(2755)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g
2050B-4KG1 2050B-4KG1KOL	6	(150)	Angle	Class 150 Flange	250	(1720)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g
2050B-4KG1 2050B-4KG1KOL	8	(200)	Angle	Class 300 Flange Grooved	400	(2755)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g
2050B-4KG1 2050B-4KG1KOL	8	(200)	Angle	Class 150 Flange	250	(1720)	20 to 200, 100 to 300	(135 to 1380, 670 to 2070)	a, b, c, d, e, f, g

Remarks:

- a. Pilot Valve Model CRL available with bronze body and ASTM A216 grade WCB cast steel body
- b. Pilot Valve Model CRL 60 available with bronze body, ASTM A216 grade WCB cast steel body and stainless steel body
- c. Available with 300 Series Stainless Steel cover plate fasteners.
- d. Available with red epoxy coating, add suffix -KC to model no.
- e. Available with body materials, Ductile Iron, ASTM A536 Grade 65-45-12; Nickel Aluminum Bronze (NAB), ASTM B148 Alloy C95800; Super Duplex Stainless Steel, ASTM A890 Grade 5A (CE3MN); Super Austenitic Stainless Steel, ASTM A351 Grade CK3MCuN (SMO 254); 316 Stainless Steel, ASTM A743 Grade CF8M; 316L Stainless Steel, ASTM A743 Grade CF3M; Monel, ASTM A494 Grade M30H.
- f. Available ISO flanged body connections: PN10, 175 psi (12 bar) rated working pressure; PN16, 232 psi (16 bar) rated working pressure; PN25, 363 psi (25 bar) rated working pressure.
- g. Assembly consists of Clayton 100 (globe) or Clayton 2100 (angle) hydraulically operated, diaphragm-actuated valve, pilot valve. Clayton X101C valve position indicator available as optional equipment.

Company Name:	Cla-Val Co.
Company Address:	1701 Placentia, Costa Mesa, California 92627, USA
Company Website:	http://cla-val.com
New/Updated Product Listing:	No
Listing Country:	United States of America
Certification Type:	FM Approved
Class of Work:	1361-Water Pressure Relief Valves