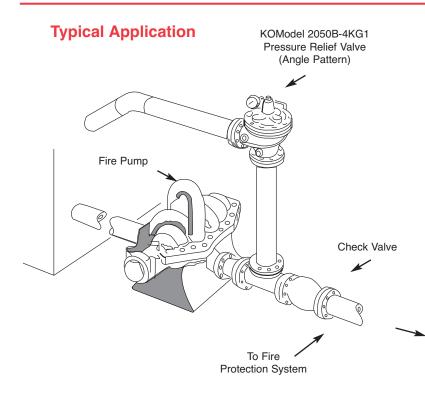




2050B-4KG1 (Angle)



- U.L. Listed / U.L.C. Listed
- Factory Mutual Approved
- Fast Opening to Maintain Steady Line Pressure
- Accommodates Wide Range of Flow Rates
- · Closes Gradually for Surge-Free Operation
- Adjustable Pressure Settings, Not Affected by
 Pressure At Valve Discharge

The Cla-Val Model 50B-4KG1 Globe / 2050B-4KG1 Angle Pressure Relief Valve is designed specifically to automatically relieve excess pressure in fire protection pumping systems. Pilot controlled, it maintains constant system pressure at the pump discharge within very close limits as demands change. The 50B-4KG1 and 2050B-4KG1 can be supplied with optional internal and external epoxy coating of the main valve wetted surfaces.

> U.L. Listed.....Sizes 3" thru 8" F.M. Approved.....Sizes 3" thru 8" U.L.C. Listed....Sizes 2" thru 10"

Operation Sequence

At pump start, Cla-Val Relief Valve modulates to relieve excess pump capacity, maintaining positive system pressure at the pump discharge.

When fire demand slows or ceases, Cla-Val Model 50B-4KG1 opens, diverting entire pump output to discharge, allowing fire pump to be stopped without causing surging in the lines.

(Please note that if the Model 50B-4KG1 is to be used on a continuous duty basis to maintain fire-system pressure, suitable back pressure must be provided on the valve to prevent cavitation damage. Consult the factory for details.)

"Fluid Control at It's Best"



Specifications

	<i>Globe:</i> 2" - 10" flanged <i>Angle:</i> 2" - 10" flanged				
End Details	150 and 300 ANSI B16.42				
Pressure Ratings	class - 175 psi Max. class - 300 psi Max				
	Water, to 180°F Max.				
Materials	Main Valve Body & Cover Ductile Iron ASTM A-536 Naval Bronze ASTM B61 Other Material Available Standard Main Valve Trim: Bronze Seat, Teflon Coated Stainless Steel Stem, Dura-Kleen Stem Standard Pilot Control System: Cast Bronze with Stainless Steel trim				
Adjustment Range	Available in the following relief pressure ranges: 20-200 psi (150 Class) 100-300 psi (300 Class)				
Optional	Protective epoxy resin coating of wetted surfaces of main valve cast iron components (UL listed HNFX EX2855)				

Purchase Specifications

The Fire Pump Pressure Relief Valve shall modulate to relieve excess pressure in a fire protection system. It shall maintain constant pressure in the system regardless of demand changes. It shall be pilot controlled and back pressure shall not affect its set point. It shall be actuated by line pressure through a pilot control system and open fast in order to maintain steady system pressure as system demand decreases. It shall close gradually to control surges and shall re-seat drip-tight within 5% of its pressure setting. The main valve shall be of the hydraulically-operated, pilot-controlled, diaphragm-type, globe or angle valve. It shall have a single, removable, teflon-coated seat, a grooved stem guided at both ends, and a resilient disc with a rectangular cross section, being contained on 3 1/2 sides. No external packing glands shall be permitted and the diaphragm shall not be used as a seating surface. The pilot control shall be a direct-acting, adjustable, spring-loaded, diaphragm-type valve designed for modulating service to permit flow when controlling pressure exceeds spring setting. This valve shall be UL Listed and Factory Mutual approved. It shall be the Model 50B-4KG1 (globe) or Model 2050B-4KG1 (angle) Pressure Relief Valve as manufactured by Cla-Val Newport Beach, California.

*Special Note:

The Model 50B-4KG1 Pressure Relief Valve is available with 300# ANSI inlet flange and 150# ANSI outlet flange. This valve is used on higher pressure systems where 300# flange connections are required, and allows for adapting of a discharge cone (generally supplied with 150# flange) to accommodate "atmospheric break" at relief valve discharge. This relief valve, with 300# / 150# flanges is available on special order, and is UNDERWRITERS LABORATORIES LISTED AND FACTORY MUTUAL APPROVED.

Specifications

Sizes

Seawater Service Option

4687 Christie Drive

Beamsville, Ontario Canada L0R 1B4

Phone: 905-563-4963

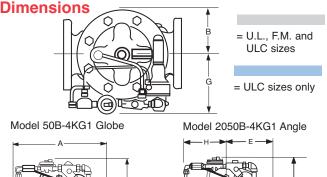
E-Mail: sales@cla-val.ca

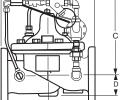
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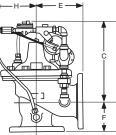
905-563-4040

Globe: 2" - 8" flanged Angle: 2" - 8" flanged Consult factory for materials and flange ratings.

Fax:







We recommend providing adequate space around valve for maintenance work.

Valve Size (inches)	2"	2-1/2"	3"	4"	6"	8"	10"
Threaded Ends	9.38	11.00	12.50				
A 150 Flanged	9.38	11.00	12.00	15.00	20.00	25.38	29.75
300 Flanged	10.00	11.62	13.25	15.62	21.00	26.38	31.12
300 X 150		4.00	12.88 4.56	15.31 5.75	20.56 7.88	25.88 10.00	30.44 11.81
В	3.31						
С	12.00	12.25	12.50	13.00	14.31	16.31	18.00
D	1.50	1.69	2.66	3.19	4.31	5.31	9.25
Threaded Ends	4.75	5.50	6.25				
E 150 Flanged	4.75	5.50	6.00	7.50	10.00	12.75	14.88
300 Flanged	5.00	5.88	6.38	7.88	10.50	13.25	15.56
Threaded Ends	3.25	4.00	4.50				
F 150 Flanged	3.25	4.00	4.00	5.00	6.00	8.00	8.62
300 Flanged	3.50	4.31	4.38	5.31	6.50	8.50	9.31
G & H	6.00	6.69	7.75	7.88	8.50	9.75	13.25
Value Oine	50	05	00	100	450	000	050
Valve Size (mm)	50	65	80	100	150	200	250
Threaded Ends	238	279	318				
Threaded Ends A 150 Flanged	238 234	279 279	318 305	 381	 508	 645	756
Threaded Ends A 150 Flanged 300 Flanged	238	279	318 305 337	 381 397	 508 533	 645 670	756 790
Threaded Ends A 150 Flanged 300 Flanged 300 X 150	238 234 254 	279 279 295 	318 305 337 327	 381 397 389	 508 533 522	 645 670 657	756 790 773
Threaded Ends A 150 Flanged 300 Flanged 300 X 150 B	238 234 254 84	279 279 295 102	318 305 337 327 116	381 397 389 146	 508 533 522 200	645 670 657 254	756 790 773 300
Threaded Ends A 150 Flanged 300 Flanged 300 X 150 B C	238 234 254 84 305	279 279 295 102 311	318 305 337 327 116 1318	381 397 389 146 330	 508 533 522 200 363	645 670 657 254 414	756 790 773 300 457
Threaded Ends A 150 Flanged 300 Flanged 300 X 150 B C D	238 234 254 84 305 38	279 279 295 102 311 43	318 305 337 327 116 1318 65	381 397 389 146	 508 533 522 200	645 670 657 254	756 790 773 300
Threaded Ends A 150 Flanged 300 Flanged 300 X 150 B C	238 234 254 84 305	279 279 295 102 311 43 140	318 305 337 327 116 1318	381 397 389 146 330	 508 533 522 200 363	645 670 657 254 414	756 790 773 300 457
Threaded Ends A 150 Flanged 300 Flanged 300 X 150 B C D Threaded Ends E 150 Flanged	238 234 254 84 305 38 121 121	279 279 295 102 311 43 140 140	318 305 337 327 116 1318 65 159 152	 381 397 389 146 330 81 191	 508 533 522 200 363 109 254	645 670 657 254 414 135 324	756 790 773 300 457 235 378
Threaded Ends A 150 Flanged 300 Flanged 300 X 150 B C D Threaded Ends E 150 Flanged 300 Flanged	238 234 254 84 305 38 121	279 279 295 102 311 43 140	318 305 337 327 116 1318 65 159	 381 397 389 146 330 81 	 508 533 522 200 363 109 	 645 670 657 254 414 135 	756 790 773 300 457 235
Threaded Ends A 150 Flanged 300 Flanged 300 X 150 B C D Threaded Ends E 150 Flanged	238 234 254 84 305 38 121 121	279 279 295 102 311 43 140 140	318 305 337 327 116 1318 65 159 152	 381 397 389 146 330 81 191	 508 533 522 200 363 109 254	645 670 657 254 414 135 324	756 790 773 300 457 235 378
Threaded Ends A 150 Flanged 300 Flanged 300 X 150 B C D Threaded Ends E 150 Flanged 300 Flanged	238 234 254 84 305 38 121 121 127	279 279 295 102 311 43 140 140 149	318 305 337 327 116 1318 65 159 152 162	381 397 389 146 330 81 191 200	508 533 522 200 363 109 254 267	645 670 657 254 414 135 324 337	756 790 773 300 457 235 378
Threaded Ends A 150 Flanged 300 Flanged 300 X 150 B C D Threaded Ends E 150 Flanged 300 Flanged Threaded Ends	238 234 254 84 305 38 121 121 121 127 83	279 279 295 102 311 43 140 140 149 102	318 305 337 327 116 1318 65 159 152 162 1114	381 397 389 146 330 81 191 200	508 533 522 200 363 109 254 267	645 670 657 254 414 135 324 337	756 790 773 300 457 235 378 395

Valve Capacity

Valve Sizes in Inches:	2"	2 1/2"	3"	4"	6"	8"	10"
NFPA 20 Maximum							
Recommended GPM	208	300	500	1000	2500	5000	11000

E-50B-4KG1/2050B-4KGL1 (R-10/2013)

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Represented By: