



MODEL **50B-4KG1KOL Globe**  
**2050B-4KG1KOL Angle**  
 Pressure Relief Valve with Anti-Cavitation Trim

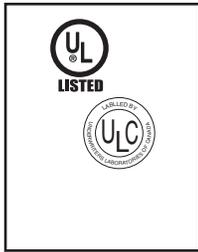


2050B-4KG1KOL (Angle)

- **KOL Anti-Cavitation Trim Seat:**
  - Protects Against Cavitation
  - Reduces Noise and Vibration
  - Extends Valve Life
- **Compliant with NFPA 20 Standards**

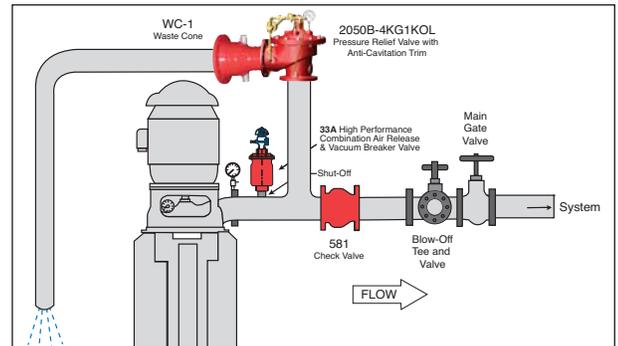
The Cla-Val Globe Pattern Model 50B-4KG1KOL and Angle Pattern Model 2050B-4KG1KOL relief valve is designed to relieve excess pressure in a fire protection system, while eliminating the damaging effects of cavitation.

The valve features an adjustable pressure setting, fast opening to maintain steady line pressure, and gradual closing for surge free operation.



**Typical Application**

**Onshore Fire Pump Relief**



Distributed By:  
 M&M Control Service, Inc.  
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## Specifications

- Sizes** *Globe:* 3" - 8" flanged; *Angle:* 3" - 8" flanged  
FM Approved, UL and ULC Listing Pending
- End Details** 150 and 300 ANSI B16.42
- Pressure Ratings** Class 150 - 250 psi Max; Class 300 - 300 psi Max  
Water, to 180°F Max.
- Adjustment Range** Available in the following relief pressure ranges:  
20-200 psi (150 Class)  
100-300 psi (300 Class)
- Optional Coating** Protective epoxy resin coating of wetted surfaces of main valve iron components  
UL listed HNFx EX2855)
- Standard Valve Materials**
- Main Valve Body & Cover**
- Ductile Iron ASTM A-536
- Main Valve Trim:**
- Teflon Coated Stainless Seat, Stainless Steel Stem
- Pilot Control System:**
- Cast Bronze with Stainless Steel Trim

## Purchase Specifications

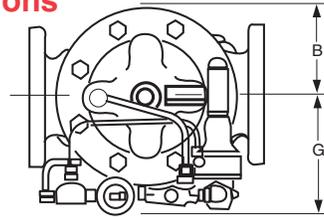
The Fire Pump Pressure Relief Valve shall modulate to relieve excess pressure in a fire protection system, maintaining constant pressure in the system regardless of demand changes. It shall be pilot controlled and back pressure shall not affect its set point. It shall be actuated by line pressure through 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 be equipped with a teflon-coated anti-cavitation 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-4KG1KOL (globe) or Model 2050B-4KG1KOL (angle) Pressure Relief Valve as manufactured by Cla-Val Newport Beach, California.

**\*Special Note:**

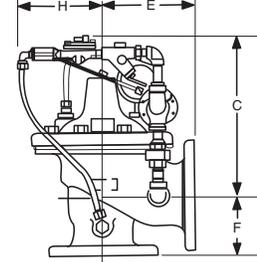
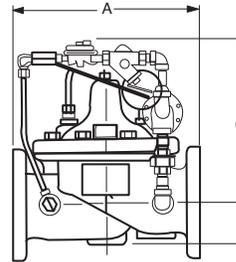
The Model 50B-4KG1KOL/2050B-4KG1KOL Pressure Relief Valve is available with 300# ANSI inlet flange and 150# ANSI outlet flange for high pressure systems where 300# flange connections are required, to allow for adapting of a discharge cone (generally supplied with 150# flange) to accommodate "atmospheric 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.

## Dimensions



Model 50B-4KGKOL Globe

Model 2050B-4KG1KOL Angle



We recommend providing adequate space around valve for maintenance work.

Valve Size (inches)	3"	4"	6"	8"
<b>Threaded Ends</b>	12.50	---	---	---
<b>A 150 Flanged</b>	12.00	15.00	20.00	25.38
300 Flanged	13.25	15.62	21.00	26.38
300 X 150	12.88	15.31	20.56	25.88
<b>B</b>	4.56	5.75	7.88	10.00
<b>C</b>	12.50	13.00	14.31	16.31
<b>D</b>	2.66	3.19	4.31	5.31
<b>Threaded Ends</b>	6.25	---	---	---
<b>E 150 Flanged</b>	6.00	7.50	10.00	12.75
300 Flanged	6.38	7.88	10.50	13.25
<b>Threaded Ends</b>	4.50	---	---	---
<b>F 150 Flanged</b>	4.00	5.00	6.00	8.00
300 Flanged	4.38	5.31	6.50	8.50
<b>G &amp; H</b>	7.75	7.88	8.50	9.75

Valve Size (mm)	80	100	150	200
<b>Threaded Ends</b>	318	---	---	---
<b>A 150 Flanged</b>	305	381	508	645
300 Flanged	337	397	533	670
300 X 150	327	389	522	657
<b>B</b>	116	146	200	254
<b>C</b>	1318	330	363	414
<b>D</b>	65	81	109	135
<b>Threaded Ends</b>	159	---	---	---
<b>E 150 Flanged</b>	152	191	254	324
300 Flanged	162	200	267	337
<b>Threaded Ends</b>	114	---	---	---
<b>F 150 Flanged</b>	102	127	152	203
300 Flanged	111	135	165	216
<b>G &amp; H</b>	197	200	216	248

## Valve Capacity

Valve Sizes in Inches:	3"	4"	6"	8"
NFPA 20 Maximum Recommended GPM	500	1000	2500	4000



E-50B-4KG1KOL/2050B-4KG1KOL (R-08/2013)

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