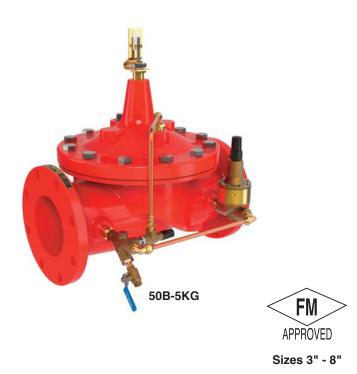


Pump Suction Control Valve



Adjustable Opening Speed For Pump Suction
 Protection

- MODEL - 50B-5KG

- Pilot Control Provides Wide Flow Range With Minimal Pressure Variations
- Controlled Closing For System Protection
- Modulates Within 5% of Setting for Accurate
 Pressure Control
- Pressure Setting Adjustable
- Pressure Setting Not Affected by Pressure at Valve Discharge

The Model 50B-5KG Pump Suction Control Valve is designed specifically for Fire Pump Suction Control Service. It modulates to maintain the pump discharge in relation to the suction head available, thus assuring that the suction head pressure does not fall below the pre-set minimum. The 50B-5KG can be supplied with optional internal and external epoxy coating of the main valve wetted surfaces.

Typical Installation

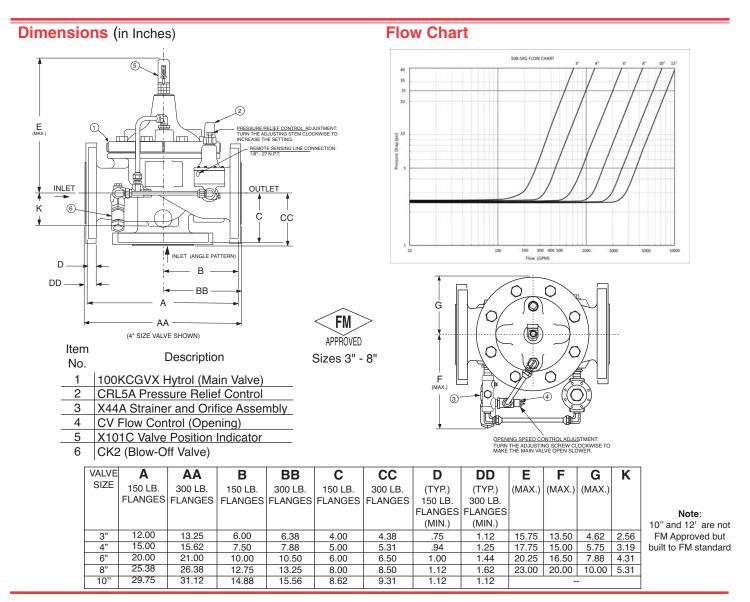
When there is a demand in the Fire System, the pump is started, delivering water from the supply source to the area of demand. To assure that the fire pump draw does not exceed the available water supply, the Model 50B-5KG, sensing the pump suction, modulates to prevent suction pressure from dropping below a pre-set minimum.

By maintaining minimum pressure requirements in the supply main, the main is protected from possible damage or backflow conditions. Also, a minimum supply pressure is provided for local fire apparatus.

THE STREET

Specifications

Sizes	<i>Globe:</i> 3" - 10" flanged <i>Angle:</i> 3" - 10" flanged
End Details	150 and 300 ANSI B16.42
Pressure Ratings	150 class - 250 psi Max. 300 class - 400 psi Max
Temperature Range	Water, to +180°F Max.
Materials	<i>Main valve body & cover</i> Ductile Iron ASTM A-536
	<i>Main valve trim:</i> Brass QQ-B-626 Bronze Seat ASTM B61 Stainless Steel Stem 303 Delrin Sleeved
	<i>Pilot control system:</i> Cast Bronze ASTM B62 with 303 Stainless Steel trim
Adjustment Range	Available in the following pressure range only: 5 to 25 psi Set at 10 psi



Purchase Specifications

The Fire Pump Suction Control Valve shall modulate to maintain a minimum pressure at the pump suction regardless of system demand. It shall control the pump discharge in relation to the suction head available, and shall not allow suction head pressure to fall below a pre-set minimum.

It shall be actuated by line pressure through a pilot control system which allows rapid response to changing pressure conditions without line surges. The pilot control shall be remote sensed to the pump suction head pressure.

The main valve shall be of the hydraulically-operated, pilot-controlled, diaphragm-type, globe or angle valve. It shall have a single removable seat, a delrin-sleeved guided stem and a renewable resilient synthetic rubber disc with a rectangular cross section, contained on three and one-half sides by a disc retainer and disc guide. 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.

A device indicating the percent at which the valve is open or closed shall be supplied on the assembly, together with a sediment evacuator and dampening device.

The valve shall be designed to allow for repair and servicing without removing the valve body from the line.

The valve shall be Factory Mutual Approved. It shall be the MODEL 50B-5KG FIRE PUMP SUCTION CONTROL VALVE as manufactured by Cla-Val, Newport Beach, California.

ZAC du Champ du Périer

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