

SERIES 4042-FS2 & 4045-FA2 1-1/2" FACTORY SET PRESSURE REDUCING HOSE VALVES

FEATURES

True pressure reducing valve, operated automatically by inner hydraulic controls
 May be used as a standard shutoff
 Completely tamperproof
 Inlet pressure up to 300psi (20.7 BARS) controlled under flow/no-flow conditions
 Fits all existing cabinets where 1-1/2" valves are used
 UL listed

MODEL SELECTION

MODEL 4042

Cast brass valve with rising stem, internal parts of brass and stainless steel. Red aluminum hand wheel. Female N.P.T. inlet and outlet.

MODELS 4045

Cast brass valve with inside screw rising stem, internal parts of brass and stainless steel. Red aluminum hand wheel.

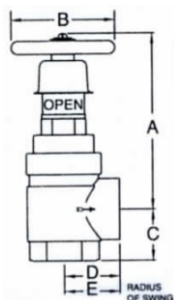
PRESSURE RANGE SUFFIX SELECTION

For factory tagging of valve location, specify location by pressure range suffix. (see pressure regulating valve chart)

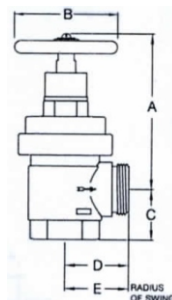
☐ -XN ☐ -YZN ☐ -ZAN ☐ -ZN ☐ -ZBN ☐ -ZZN ☐ -ZZAN

MODEL DIMENSIONS

Model No.	A Open		A Close		B		C		D		E Radius of Swing		Weight	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs	kg
4042-FS2	6-3/4	171	6-1/8	155	4	101	2	51	2-3/16	55	2-3/16	55	9	4
4045-FS2	6-3/4	171	6-1/8	155	4	101	2	51	2-1/2	63	2-5/8	68	9	4



MODEL 4042-FS2



MODEL 4045-FS2



**RATED
300 PSI**



MODEL 4042 (Shown)

PRODUCT OPTIONS

FINISHES:

☐ -C Rough Chrome Plated ☐ -GV Grooved Inlet Connection

OPTIONS:

THREADS:

☐ N.S.T.
☐ OTHER _____

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4042-FA2&4045-FA2 SERIES Date: 10/17/24

MEMBERSHIP



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VALVE SELECTION CHART

Valve Type Selection

1. Determine the standpipe residual pressure for each valve location.
2. Select the appropriate valve flow rate chart to follow.
3. Locate the valve inlet pressure on the vertical axis of the chart and draw a line from this pressure across the chart.
4. Locate the desired valve outlet residual pressure on the chart horizontal axis and draw a vertical line from this pressure across the chart.
5. From the intersection of the inlet and outlet pressure lines constructed in (3) and (4) above, move horizontally to the nearest valve performance curve (straight lines). This will be the appropriate value for the chosen location.
6. Determine the valve static inlet pressure. This is the sum of the municipal supply static pressure plus the pump churn pressure, less elevation loss.
7. To determine the valve static outlet pressure, refer to the static chart to follow. Locate the valve static inlet pressure on the vertical axis of the chart. Follow across the appropriate valve curve (straight lines) and drop down to the horizontal axis to read valve outlet static pressure.

NOTE: If static pressure is found to exceed the maximum outlet pressure is found to exceed the maximum outlet pressure allowed by NFPA 14, it will be necessary to re-select a valve type to the left of the originally chosen type.

MAXIMUM FLOW RATE LIMITS

Valve Model	Bonnet Type	Max. Flow (gpm)	Max. Pressure (PSI)
4042-FS2 & 4045-FS2	XN	200	300
4042-FS2 & 4045-FS2	YZN	300	300
4042-FS2 & 4045-FS2	ZAN	300	280
4042-FS2 & 4045-FS2	ZN	300	300
4042-FS2 & 4045-FS2	ZBN	300	250
4042-FS2 & 4045-FS2	ZZN	300	220
4042-FS2 & 4045-FS2	ZZAN	300	190

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