

## SERIES 4050-FS2 & 4053-FS2 2-1/2" PRESSURE REDUCING HOSE VALVES

### FEATURES

Reduces pressure under flow and no-flow conditions  
Static pressure rated up to 400 PSI (27.6 BARS)  
Flow rated up to 500 GPM (1892.7 LPM)  
Low torque manual open/close requires less than 18ft/lbs  
UL listed, complies with NFPA-14

### MODEL SELECTION

#### ☐ MODEL 4050-FS2

Cast brass valve with rising stem. Internal parts of brass and stainless steel. Red handwheel. Female N.P.T. inlet and outlet. Four drilled and tapped ports. Can be used on Class I and Class III standpipes in accordance with NFPA 14.

#### ☐ MODEL 4053-FS2

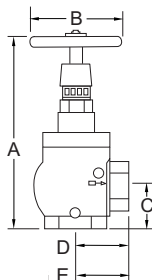
Cast brass valve with rising stem. Internal parts of brass and stainless steel. Red handwheel. Female N.P.T. inlet and male hose thread outlet. Four drilled and tapped ports. Can be used on Class I and Class III standpipes in accordance with NFPA 14.

#### ☐ MODEL 4053-FS2-SF

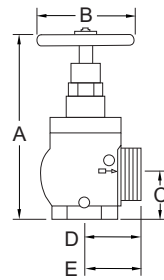
Cast brass valve with rising stem. Internal parts of brass and stainless steel. Red handwheel. 2 1/2" Female N.P.T. inlet and 3" male San Francisco thread outlet. Four drilled and tapped ports. Can be used on Class I and Class III standpipes in accordance with NFPA 14.

### MODEL DIMENSIONS

Model No.	A Open		A Close		B		C		D		E Radius of Swin		Weight	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs	kg
<b>4050-FS2</b>	13 1/4	337	13 3/4	324	5	127	3 1/2	89	3 1/4	83	4 1/2	115	20	4.1
<b>4053-FS2</b>	13 1/4	337	12 3/4	324	5	127	3 1/2	89	3 1/4	83	4 1/2	115	19	4.6
<b>4053-FS2-SF</b>	14 1/2	369	14	356	5	127	4 3/4	120	4 1/2	114	5 1/4	133	20	4.6
<b>4050-FS2-GV</b>	13 1/4	337	12 3/4	324	5	127	3 1/2	89	3 1/4	83	4 1/2	115	21	4.1
<b>4053-FS2-GV</b>	13 1/4	337	12 3/4	324	5	127	3 1/2	89	3 1/4	83	4 1/2	115	21	4.6
<b>4053-FS2-GV-SF</b>	14 1/2	369	14	356	5	127	4 3/4	120	4 1/2	114	5 1/4	133	21	4.6



MODEL 4050-FS2



MODEL 4053-FS2



**RATED  
400 PSI**



MODEL 4053-FS2 (Shown)

### PRESSURE RANGE SUFFIX SELECTION

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

☐ -CDN ☐ -CN ☐ -DEN ☐ -DN ☐ -EN ☐ -EFN ☐ -FN

### PRODUCT OPTIONS

#### FINISHES:

☐ -C Rough Chrome Plated

#### OPTIONS:

☐ -GV Grooved Connection

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**4050-FA2&4053-FA2 SERIES**

Date: 1/28/25

**MEMBERSHIP**



FIRE EQUIPMENT  
MANUFACTURERS'  
ASSOCIATION



**ONFSA**  
NATIONAL FIRE SPRINKLER ASSOCIATION, INC.



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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 range 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)
4050-FS2 & 4053-FS2	DEN	500	300
4050-FS2 & 4053-FS2	EN	500	260
4050-FS2 & 4053-FS2	EFN	500	240
4050-FS2 & 4053-FS2	FN	500	220
4050-FS2 & 4053-FS2	DN	500	360
4050-FS2 & 4053-FS2	CDN	500	395
4050-FS2 & 4053-FS2	CN	500	400

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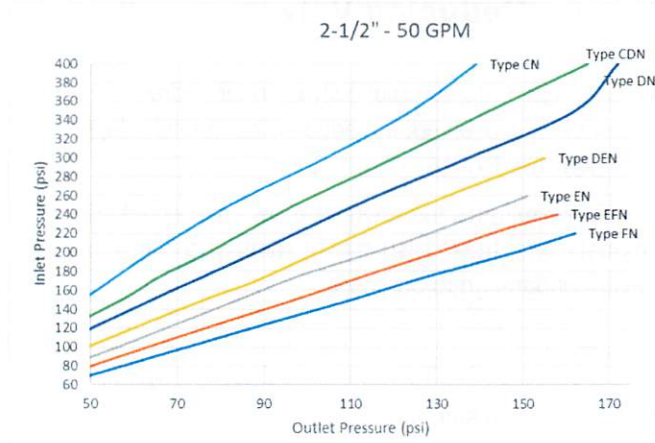
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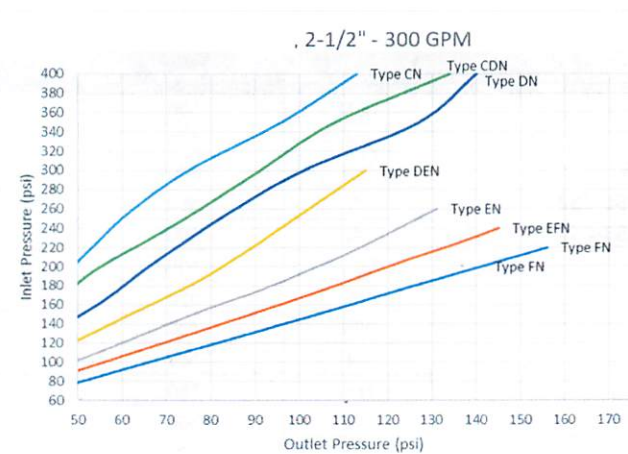
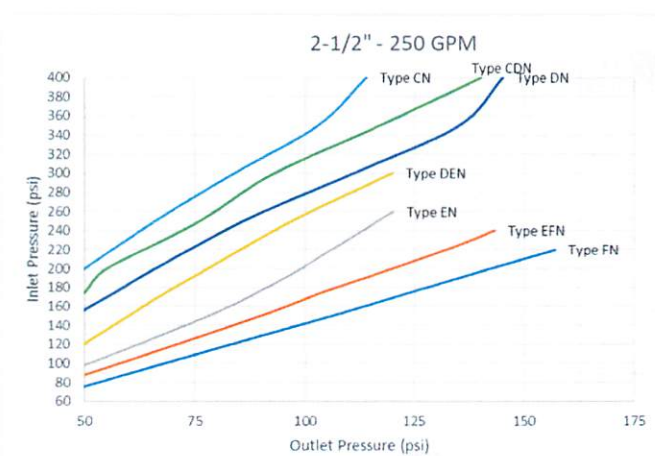
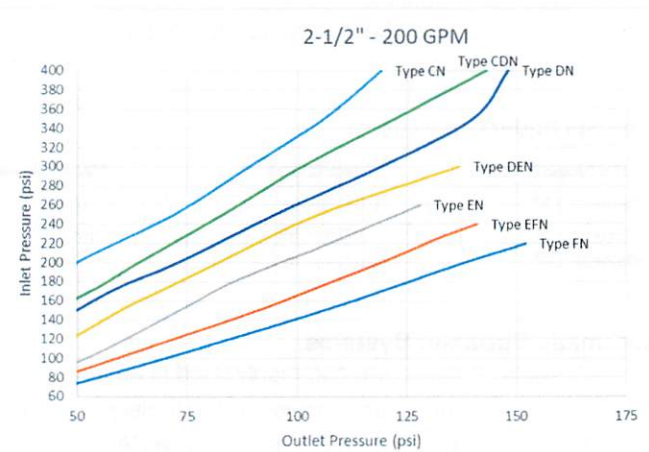
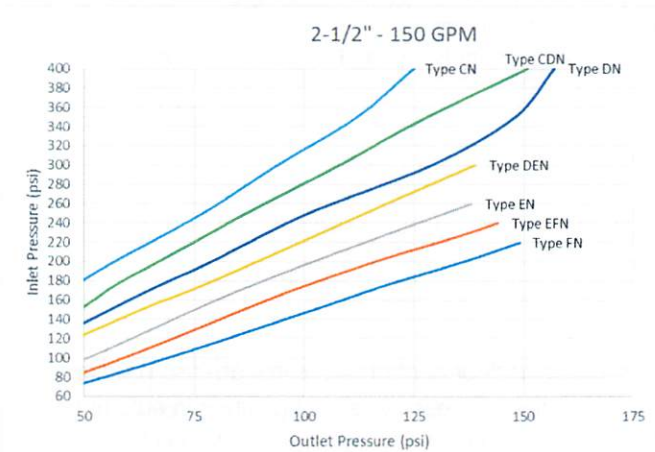
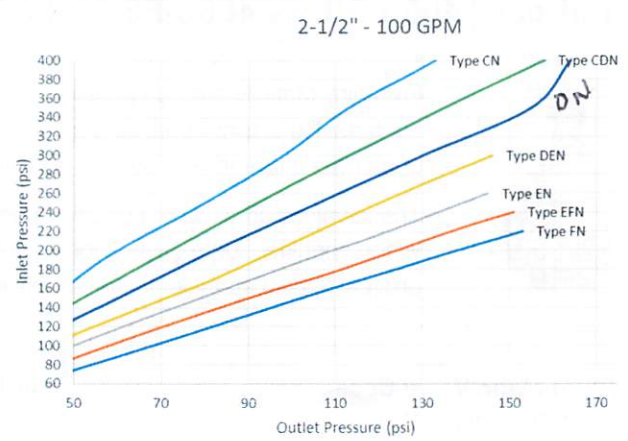


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### Model 4050-FS2



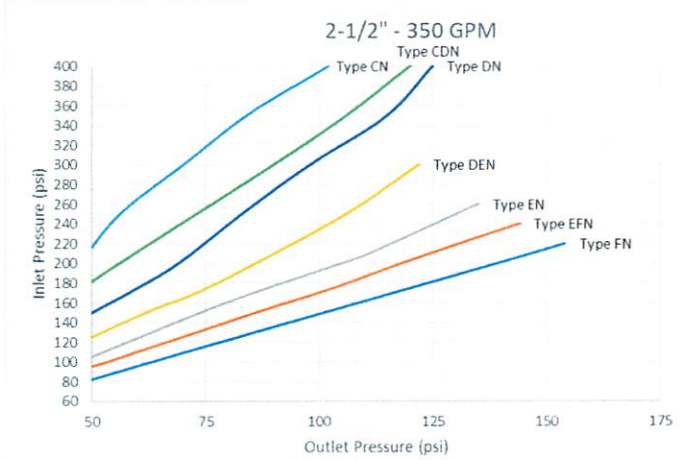
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