

JRHF Series

Pressure Regulating Valves

PRESSURE REGULATING VALVES

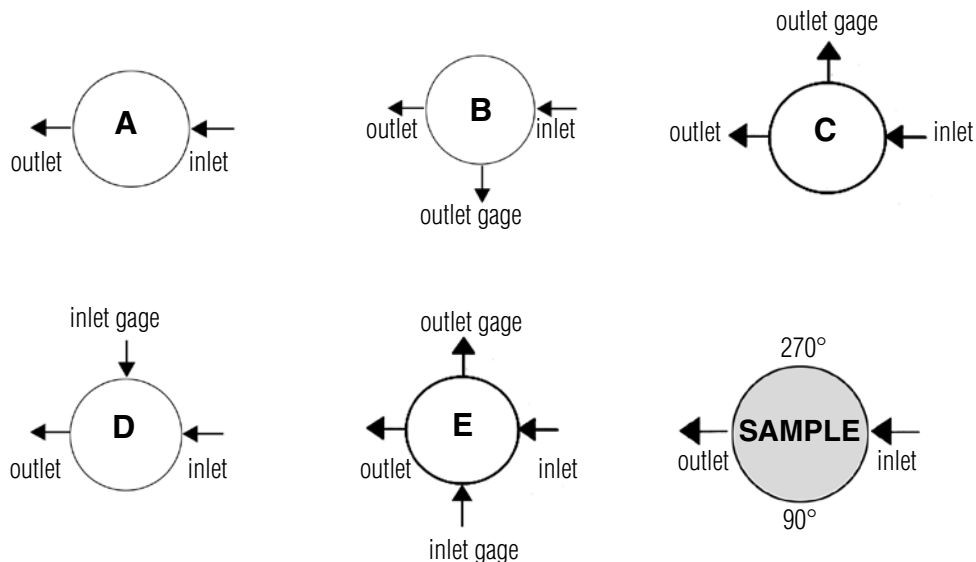
The JRHF Series is a diaphragm operated, balanced trim pressure regulator. The choice between 1.5 and 1.9 Cv offers increased flows across the JRHF's 230 psi inlet range, while the PTFE soft seat provides ANSI Class VI shutoff. Four set spring ranges and three soft seal options offer the customer flexibility in a number of applications and environments. These valves are designed to regulate a variety of gases and liquids in applications where high flows and low control pressures are required.

Features:

- Top entry design facilitates in-line cleaning and maintenance
- Barstock construction guarantees material integrity and surface finish
- Balanced trim offers high flows with minimal lockup
- Optimized internal volume
- Proprietary Jorlon diaphragm provides exceptionally long life
- PTFE soft seat for ANSI Class VI shutoff



JRHF SERIES FLOW CONFIGURATIONS



Top View

Gage ports are 1/4" FNPT; Consult factory for other porting options

JRHF SERIES SPECIFICATIONS

Line Size: 1/2", 3/4", 1" (DN15, DN20, DN25)

End Connections

- FNPT- Threaded
- SWE- Socket Weld
- WFE- Flanged

Materials

- PTFE soft seat
- 316L SST- Standard
- Contact factory for other body/trim/seat materials

Diaphragm Material: Jorlon

Maximum Inlet Pressure: 230 psig (16 bar)

Pressure at Maximum Temperature: 150 psi @ 275°F

Spring Ranges

- 0-20 psi (0 - 1,4 bar)
- 0-50 psi (0 - 3,4 bar)
- 0-100 psi (0 - 6,9 bar)
- 0-150 psi (0 - 10,3 bar)

Flow Characteristics

- Cv 1.5 for 1/2", Cv 1.9 for 3/4" and 1"

Options

- Panel Mounting

JRHF SIZING

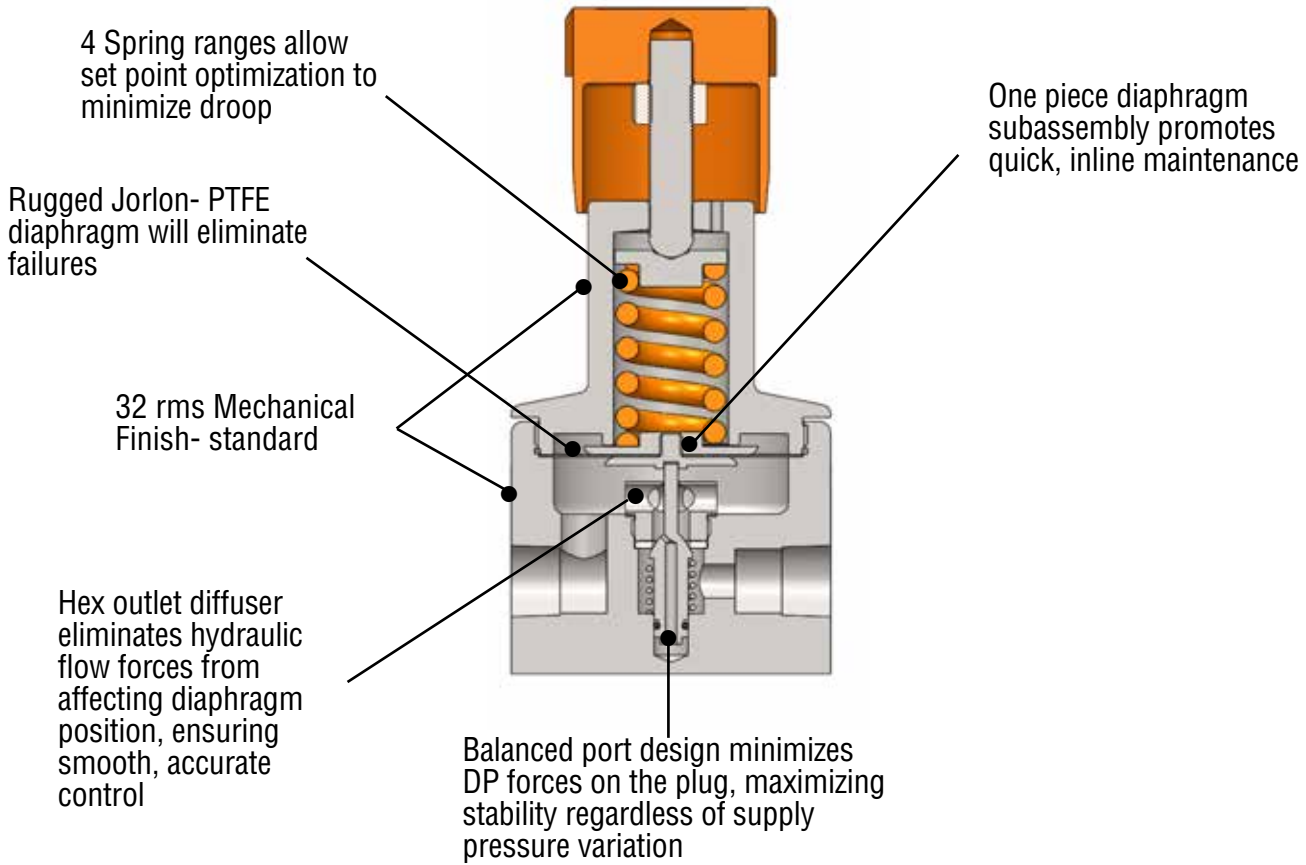
1. Use the "LVCV Sizing Software" link found on the www.lowflowvalve.com home page and navigate to LowFlow valve sizing.
2. Use the software to size for flow using the listed CV of the valve and the customer's application conditions.
3. The JRHF is rated to 60% of the flow value found using LVCV. There is no low-end cutoff limit.

Example:

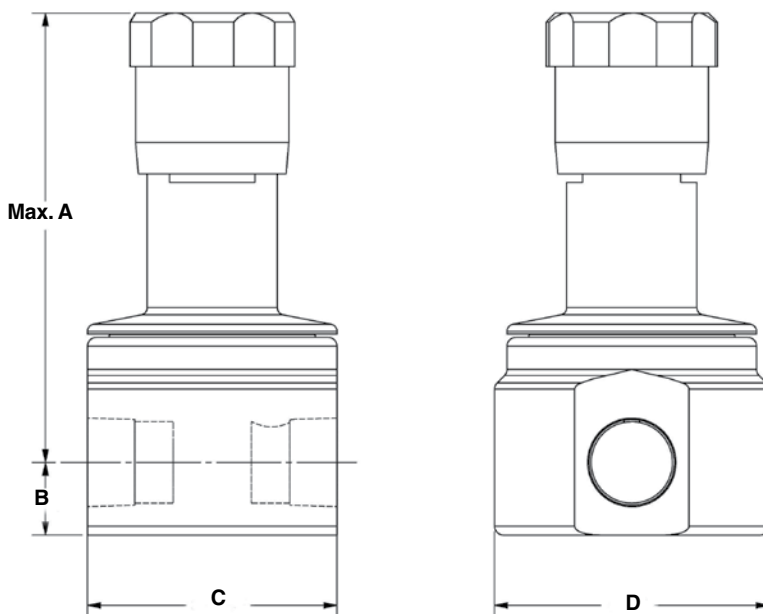
Air, ambient temperature, P1 = 200 psi, P2 = 80 psi, 1" schedule 40 pipe, flow rate 7,800 SCFH

Using LVCV to size for flow we find that these conditions and a 1.9 CV will result in a maximum flow of 13,212 scfh. Multiply this value by 0.60 to find the maximum rated flow for the JRHF-100-S6. Your result will be 7,927 scfh (13,212 x 0.6 = 7,927). Any flow below this result is acceptable for the valve.

JRHF SERIES FEATURES AND BENEFITS



JRHF DIMENSIONS



VALVE SIZE	DIMENSIONS, INCHES				WEIGHT, LBS
	A	B	C	D	
1/2", 3/4", 1"	6.29	1.02	3.50	3.85	9

VALVE SIZE	DIMENSIONS, MM				WEIGHT, KGS
	A	B	C	D	
DN15, DN20, DN25	160	26	89	98	4,1

JRFH SERIES ORDERING SCHEMATIC

Model	Size	Material	1 & 2	3 & 4	5 & 6	7 & 8	9 & 10	11 & 12	13 & 14	15	16	17
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Model	
JRFH	Low Range

Size	
050	1/2"
075	3/4"
100	1

Material	
6L	Stainless Steel 316L

1 & 2	Body Feature		
End Connection	Port Configuration		
C	FNPT	A	Port "A"
		B	Port "B"
		C	Port "C"
		D	Port "D"
		E	Port "E"
ZZ	Non-Standard		

3 & 4	Trim
1E	EPDM & 6L
1V	VIT & 6L
1K	Buna-N & 6L
ZZ	Non-Standard

5 & 6	Seat Material
TF	PTFE (1/2" 1.5 Cv) 1.9 Cv
ZZ	Non-Standard

7 & 8	Range Spring/Outlet Pressure
02	0-20 PSI
05	0-50 PSI
10	0-100 PSI
15	0-150 PSI
ZZ	Non-Standard

9 & 10	Diaphragm Material
JL	Jorlon
ZZ	Non-Standard

11 & 12	Actuator
SK	Standard
ZZ	Non-Standard

13 & 14	Inlet Gauge
AA	0-30 PSIG/BAR (Dual)
BB	0-60 PSIG/BAR (Dual)
CC	0-100 PSIG/BAR (Dual)
DD	0-160 PSIG/BAR (Dual)
EE	0-200 PSIG/BAR (Dual)
FF	0-300 PSIG/BAR (Dual)
ON	None
ZZ	Non-Standard

15	Outlet Gauge
0A	0-30 PSIG/BAR (Dual)
0B	0-60 PSIG/BAR (Dual)
0C	0-100 PSIG/BAR (Dual)
0D	0-160 PSIG/BAR (Dual)
0E	0-200 PSIG/BAR (Dual)
ON	None
Z	Non-Standard

16	SEP Compliance
G	SEP Compliant
Z	Non-Standard

17	Accessories
S	Clean for Oil Free
X	Clean for Oxygen
Z	Non-Standard