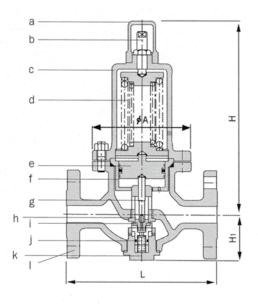
PRESSURE REDUCINEG VALVE

Model JRV-SF31

Direct Acting Type(Piston) for air and gas





MATERIALS (Standard)

No	Part	Materials (standard)	
а	Сар	Cast iron	
b	Adjusting screw	Brass	
С	Bonnet	Cast steel	
d	Spring (double)	Spring steel	
е	Piston	Brass or Bronze	
f	Cylinder	Stainless steel	
g	Stem	Stainless steel	
h	Seat	Stainless steel	
İ	Disc	S.Steel tipped with FPM	
j	Recovery spring	Stainless steel	
k	Plug	Brass	
i	Body	Cast steel	

This model is a direct operated pressure reducing valve suitable for application at the high pressured air and gas service line up to 30kgf/cm2{0.3MPa} & requiring the stable flow from small one to large capacity.

The pressure balanced disc constantly and stably regulates the secondary pressure, regardless of the primary pressure

SPECIFICATIONS

No	Kind	Standard		
1	Inlet pressure	Max. 30kgf/cmg{0.3MPa}		
2	Outlet pressure	0.35~5, 5~15kgf/cnlg{0.035~0.5, 0.5~1.5 MPa}		
3	Max reducing ratio	10:1		
4	Working temp.	Max. 80°C		
5	Working fluid	Air, gas		
6	Connection*	Flanged 16K, 20K, 30K		

· Minimum pressure differential across the disc :

 $0.5 \text{kgf/cm} \{0.05 \text{MPa}\}$

• Hydrostatic test pressure : 1.5 times the flange pressure rating

DIMENSIONS

(mm)

Size	Connection	End to end L	Height		Dia.		Weight
mm(inch)	Flange rating		H ₁	Н	φ A	Cv value	kg(approx.)
45(1//)	16, 20K	214	67	284	148	1	15.0
15(½″)	30K	- 220					
00/3/ "\	16, 20K	218	67	284	148	2.5	15.5
20(¾″)	30K	220					
25(1″)	16, 20K	218	67	284	148	4	16.0
25(1)	30K	226					
32(1 ½")	16, 20K	260	85	328	166	6.3	25.5
	30K	268					
40(1 ½")	16, 20K	260	85	328	166	8	25.5
	30K	268					

• Our standard products conform to KS flange, ANSI & DIN flange are available upon request.

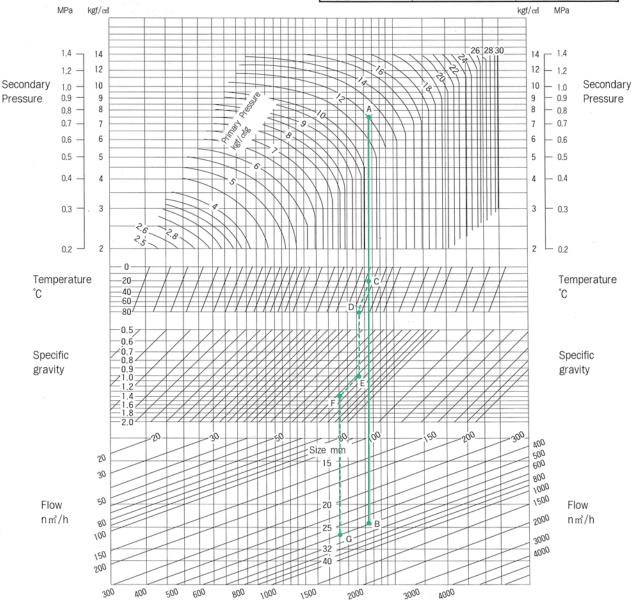
Valve size selecting chart for JRV-SF31 (for air)

This valve size selecting chart is based on air (20°C). For gas other than air, convert them into air prior to using this chart. To convert gas to air;

Gas flow × Conversion factor = Air converted flow

Conversion factor (temp.: 5-60°C)

Fluid name	Gas constant R (kg.m/kg°C)	Conversion factor
Dry air	29.27	1.000
Nitrogen gas	30.26	0.984
Metane gas	52.89	0.744
City gas	44.63	0.810



Oblique line: Flow Horizontal line: Size

How to use the chart

Where,

Primary pressure : 12kgf/cmg{1.2MPa} Seconday pressure : 7.5kgf/cmg{0.75MPa}

: 20°C Air temperature Specific gravity (air) : 1 Flow : 600N m³/h

Obtain a cross point "A" on the vertical line down from primary pressure 12kgf/cmg{1,2MPa} with horizontal line of secondary pressure 7,5kgf/cmg{0.75MPa}. Obtain a cross point "B" on the vertical line down from the point "A" with the oblique line of Flow 600 Nm³/h. As this point "B" is between size 20 and 25mm, select safer size 25mm.

Where,

Same conditions except : 80°C Fluid temperature : 1.4 Specific gravity

Obtain a cross point "C" on the vertical line down from the cross point "A" with the horizontal line of temperature 20°C. Obtain a point "D" by moving to the parallel line of temperature 80°C from the point "C". Obtain a cross point "E" on the line of specific gravity. Obtain a point "F" by moving to parallel line of specific gravity 1.4 from the point "E". Obtain a cross point "G" on the vertical line down from the point "F" with the oblique line of flow 600 Nm³/h. As the point "G" is between size 25 and 32mm, select safer size 32mm.