

# MEIJI

## PRESSURE REDUCING VALVE

### SPECIFICATION

Type: Pilot control valve, Working pressure: 16/25 bar.

Flanged to JIS 10/16K, BS4504 PN16/25, ANSI#150/300

- Throttles to reduce high upstream pressure to constant lower downstream pressure.
- Reducing set-point is adjustable.

Adjustment range: Standard: 25 ~175 psig, Option: 100~300 psig

### PRESSURE/TEMPERATURE RATINGS

Working pressure	16/25 bar
Testing Pressure	24/37.5 bar
Working temperature	-10°C ~ 80°C

### MATERIALS

Part	Material	ASTM	BS
Body, cover	Ductile iron	A536	Gr.420/12
Seat, Disc	Ductile iron	A536	Gr.420/12
Stem & Spring	Stainless steel	A240 304/316	SUS304/316
Reducing valve	Brass	B124 C37700	2874 CZ122
Diaphragm	Rubber EPDM		
Bolt/nut	Stainless steel	A240 304/410	SUS304/410
Fitting	Brass	B124 C37700	2874 CZ122
Painting	Epoxy power coating		

### SIZE AND FLOWER DATA

Size(mm)	Maximum Continuous (l/s)	Maximum Intermittent (l/s)	Cv Factor (l/s)
32	5.81	7.26	1.83
40	7.98	9.97	2.15
50	13.12	16.41	3.47
65	18.68	23.35	4.73
80	28.77	35.97	7.89
100	50.48	63.10	13.88
125	116.10	145.13	29.03
150	196.87	246.09	48.90
200	302.88	378.60	75.72
250	434.13	542.66	109.16
300	530.04	662.55	132.51
400	706.72	883.40	176.68

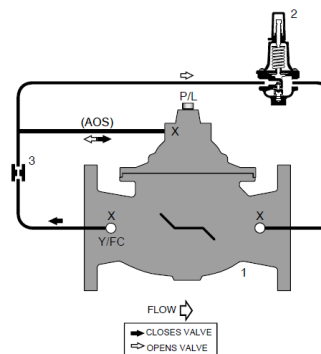
Note:

1. Maximum continuous flow based on velocity of 8.66 psi. Per second.
2. Maximum intermittent flow based on velocity of 10.82 psi. Per second.
3. The Cv factor of a valve is the flow rate in (l/s) at 60° F that will cause a 1psi drop in pressure.
4. The factors stated are based upon a fully open valve.
5. Cv factor can be used in the following equations to determine Flow (Q) and Pressure Drop (ΔP)
6. Pressure Drop :  $\Delta P = (Q/Cv)^2$ , Q: Flow Rate., Cv: Cv Factor (l/s)

Fig. 1002

PN16/25

DN 32-400



#### STANDARDS COMPONENTS

1. Main valve
2. Pressure Reducing Control
3. Fixed Orifice

#### OPTIONS and ACCESSORIES

- X- Isolation valve
- FC- Flo Clean Strainer
- Y- Y Strainer
- AOS- Adjustable Opening Speed
- P- Position Indicator
- L- Limit Switch