

Diaphragm Valve data sheet	REF.	DATE
	MDV - 100S	12-Nov-12

Y pattern diaphragm valve are designed to handle deionized water as well as acids, caustic, harsh chemicals or gases that would rapidly corrode metal valves. The valves are constructed of corrosion-resistant materials, but still have all of the advantages of the unparalleled metal body valve design. Y pattern diaphragm valve Series Valve body and cap are molded with glass-filled thermoplastic.



Y pattern diaphragm valve



Y pattern diaphragm valve_Y pattern diaphragm valve_diaphragm valve

Y pattern diaphragm valve Introduction

■ Y pattern diaphragm valve Features:

1. Y pattern diaphragm valve adopts dual control chamber design, to control the internal water flow, so that the control function is more flexible, reliable and durable, totally eliminates the switching defects that single chamber might have.
2. Y pattern diaphragm valve body and valve bonnet is made from fiberglass reinforced NORYL material, high strength, long service life and corrosion resistant.
3. The reinforced rubber diaphragm is molded by special treatment, long service life, and high strength.
4. Y shape flow channel design reduces pressure loss, increases water flux.
5. Flexible conversion between normally-open type and normally-closed type.
6. Spring assisting, water flow restriction and operation display are available also.

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■ Y pattern diaphragm valve Operation principle

valve Close:

Control signal (either water pressure or air pressure, should higher than inlet water pressure) led to diaphragm upper control chamber, valve stem push valve to close inlet water.

valve Open:

signal Pressure is relieved from upper control chamber, inlet water pressure push up valve stem, easy to form a open channel, and let liquid flow through.

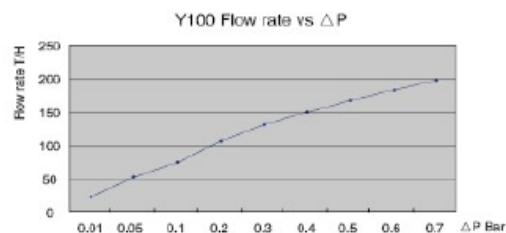
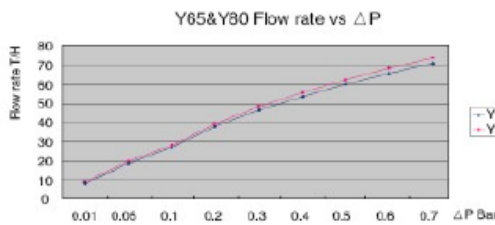
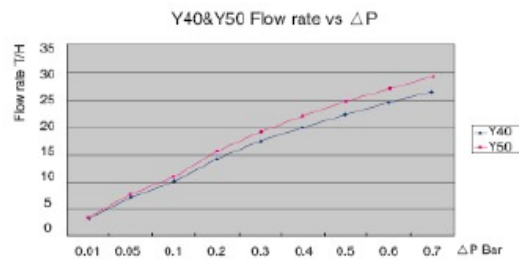
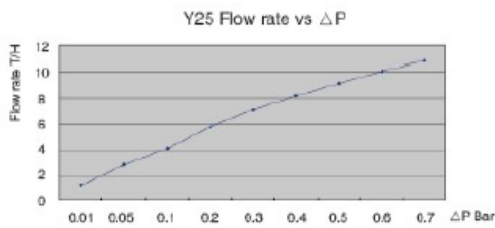
■ Y pattern diaphragm valve Specification Table:

Specification/model	Y25	Y40	Y50	Y65	Y80	Y100
Body material	Noryl	Noryl	Noryl	Noryl	Noryl	reinforced nylon
Connection port	DN25/DN32	DN40	DN50	DN65	DN80	DN100
Desimmession with adapter mm	L	230	265	265	400	400
	W	85	110	110	160	160
	H	130	175	175	250	250
Net Wgt	0.25	0.88	0.88	2.42	2.42	6.5
Gross Wgt	0.4	1.1	1.1	2.9	2.9	7.1

● Working pressure: 1.0-8.0 Bar (1.0 - 8.2 kg/cm²)

● Working temperature: under 50°C.

■ Y pattern diaphragm valve e Flow rate curves



Previous: Y pattern diaphragm valve Y80

Next: Y pattern diaphragm valve Y50