

M3400 • FLOW CONTROL VALVE



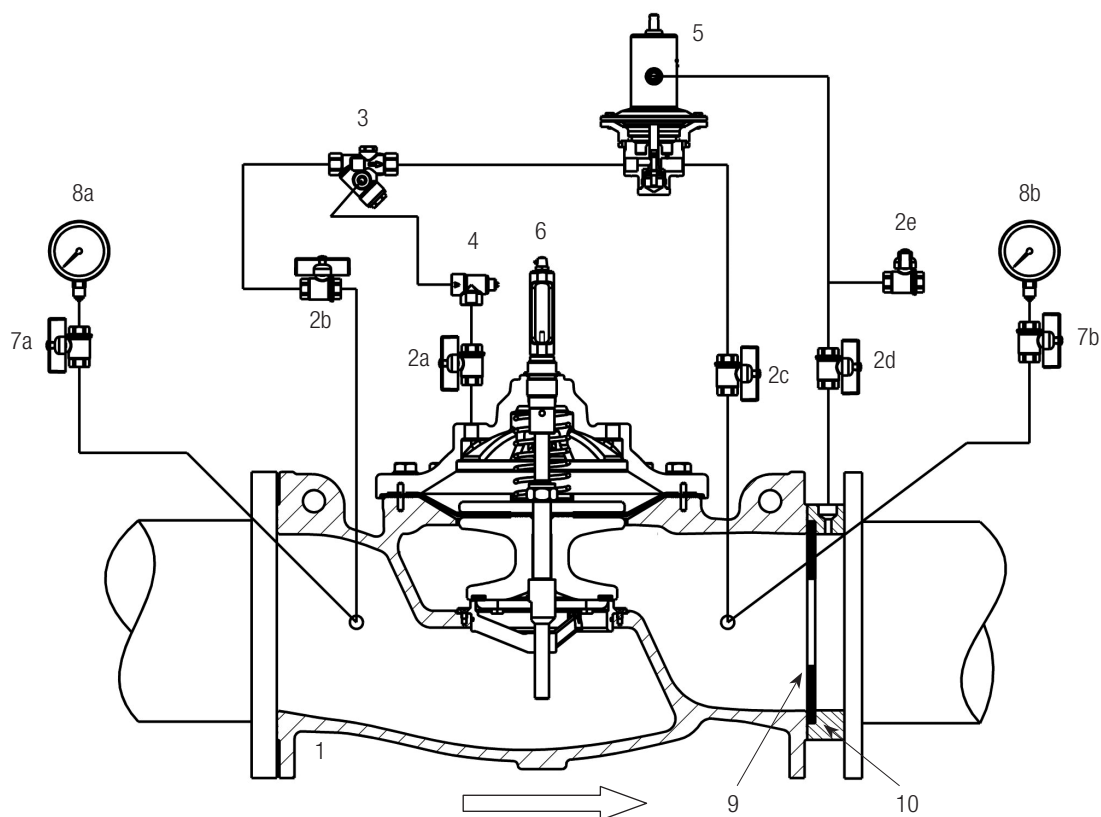
OPERATING PRINCIPLE

The valve automatically limits flow to a maximum flow rate, regardless of upstream and downstream pressure variations. Every differential pressure variation, measured by a calibrated orifice (installed downstream of the valve), is transmitted to a differential pilot control that immediately corrects the obturator position to limit the flow rate at the set value.

ADDITIONAL FUNCTIONS

- pressure reducing;
- pressure sustaining;
- shut-off with electrical remote control;
- non-return;
- reverse opening device;
- two flow rates settable either by electrical remote control, or manually;
- minimum-maximum level control with three-way float pilot.

CIRCUIT AND MATERIALS

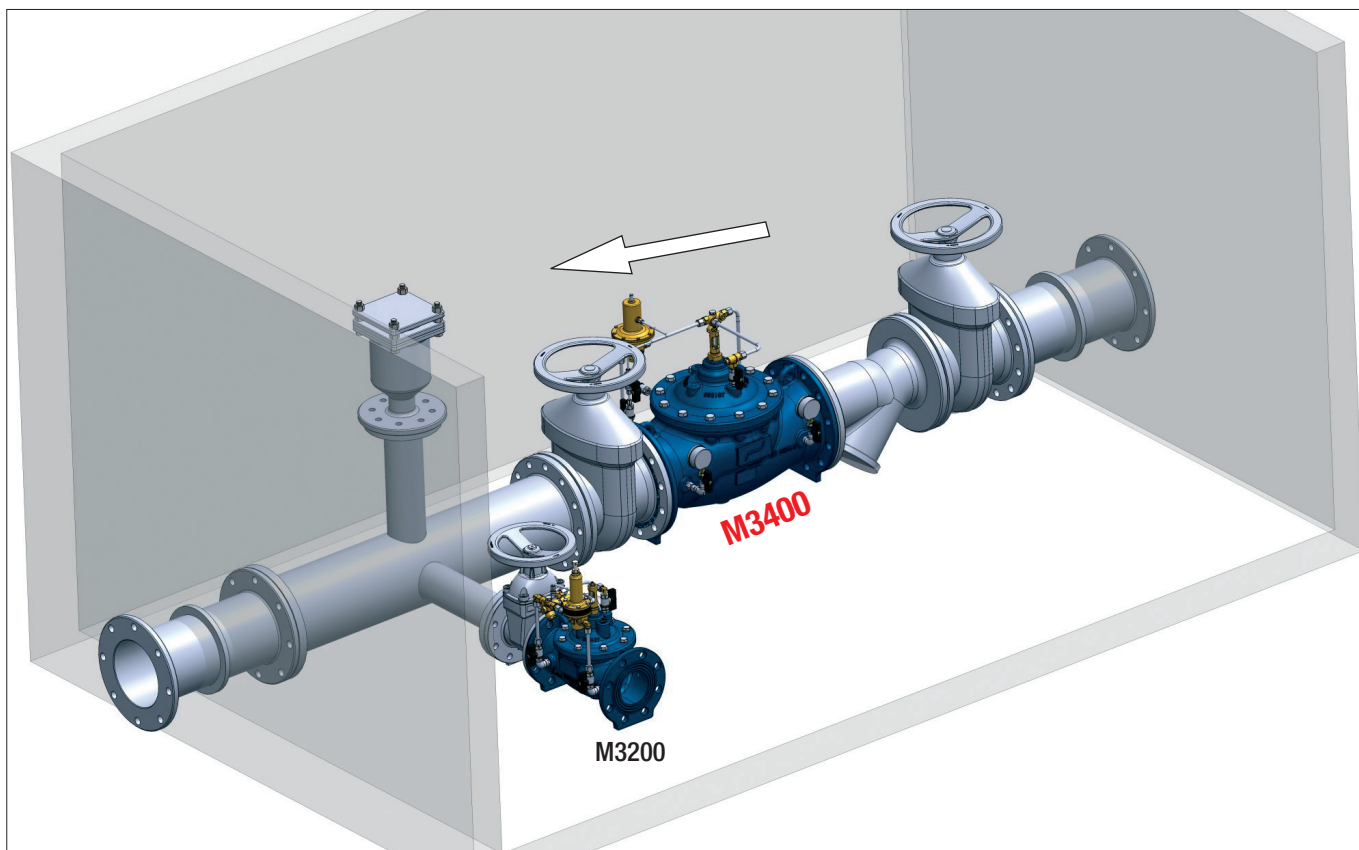


ITEM	DESCRIPTION	MATERIALS (STANDARD)	MATERIAL (HQY / HQ)
1	Main valve	GJS400-15 EN1563	GJS400-15 EN1563
2 (a,b,c,d,e)	Isolating ball valve	Ni-plated Brass	HQY = Nickel plated brass HQ = 1.4401 EN10088-3
3	Y - strainer with calibrated orifice	1.4401 EN10088-3 + Brass	1.4401 EN10088-3
4	Monodirectional needle valve	1.4401 EN10088-3 + Brass	1.4401 EN10088-3
5	Flow rate control pilot	1.4401 EN10088-3 (CP460)	1.4401 EN10088-3 (CP460)
6	Position indicator with manual venting device	Brass + Hardened glass	1.4401 EN10088-3 + Hardened glass
7(a,b)	Gauge holder with drainage hole	Ni-plated Brass	HQY = Nickel plated brass HQ = 1.4401 EN10088-3
8(a,b)	Pressure gauge	1.4301 EN10088-3 + Glycerine	1.4301 EN10088-3 + Glycerine
9	Calibrated orifice	1.4301 EN10088-3	1.4301 EN10088-3
10	Clamping plate	Steel epoxy coated	Steel epoxy coated
--	Pipe	1.4401 EN10088-3	1.4401 EN10088-3
--	Fittings	1.4401 EN10088-3	1.4401 EN10088-3
--	Compression fittings	1.4401 EN10088-3 + Brass	1.4401 EN10088-3

AVAILABLE RANGE

Orifice sized for specified flow rate range: as standard the diameter is sized to control fluid velocities (measured at the outlet flange) from 1 m/s to 3 m/s. Other ranges on request.

TYPICAL INSTALLATION



NUOVAL LINE

TYPICAL APPLICATION

