NUOVAL LINE

M3100 • PRESSURE REDUCING VALVE

OPERATING PRINCIPLE

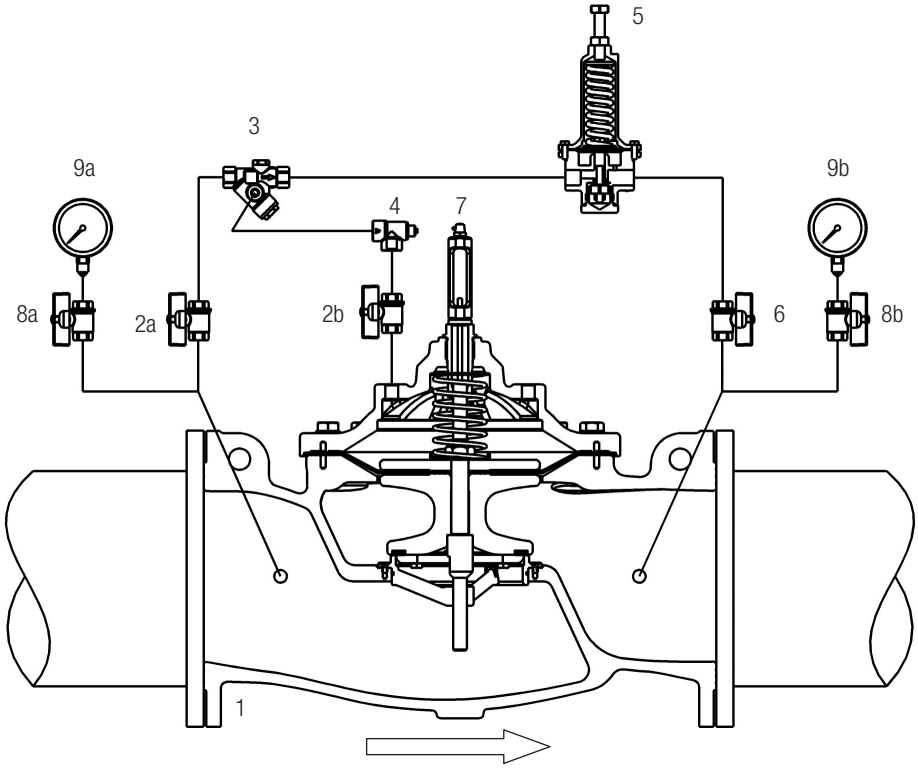
This valve reduces and stabilizes the downstream pressure at a preset value regardless of the flow rate and upstream pressure variations. This type of valve is mainly used in main water supply and distribution systems.
The purpose of this valve is to ensure an outlet reduced and stabilized pressure.

ADDITIONAL FUNCTIONS

- sustaining a minimum upstream pressure (see M3120);
- shut-off by remote electrical control;
- non-return
- reverse opening device;
- opening in case of inlet pressure drop;
- two adjustable reduction values both with electrical remote control and with fully manual hydraulic system;
- flow rate control;
- minimum-maximum level control with float pilot and dissipating plate fitted downstream of the valve.

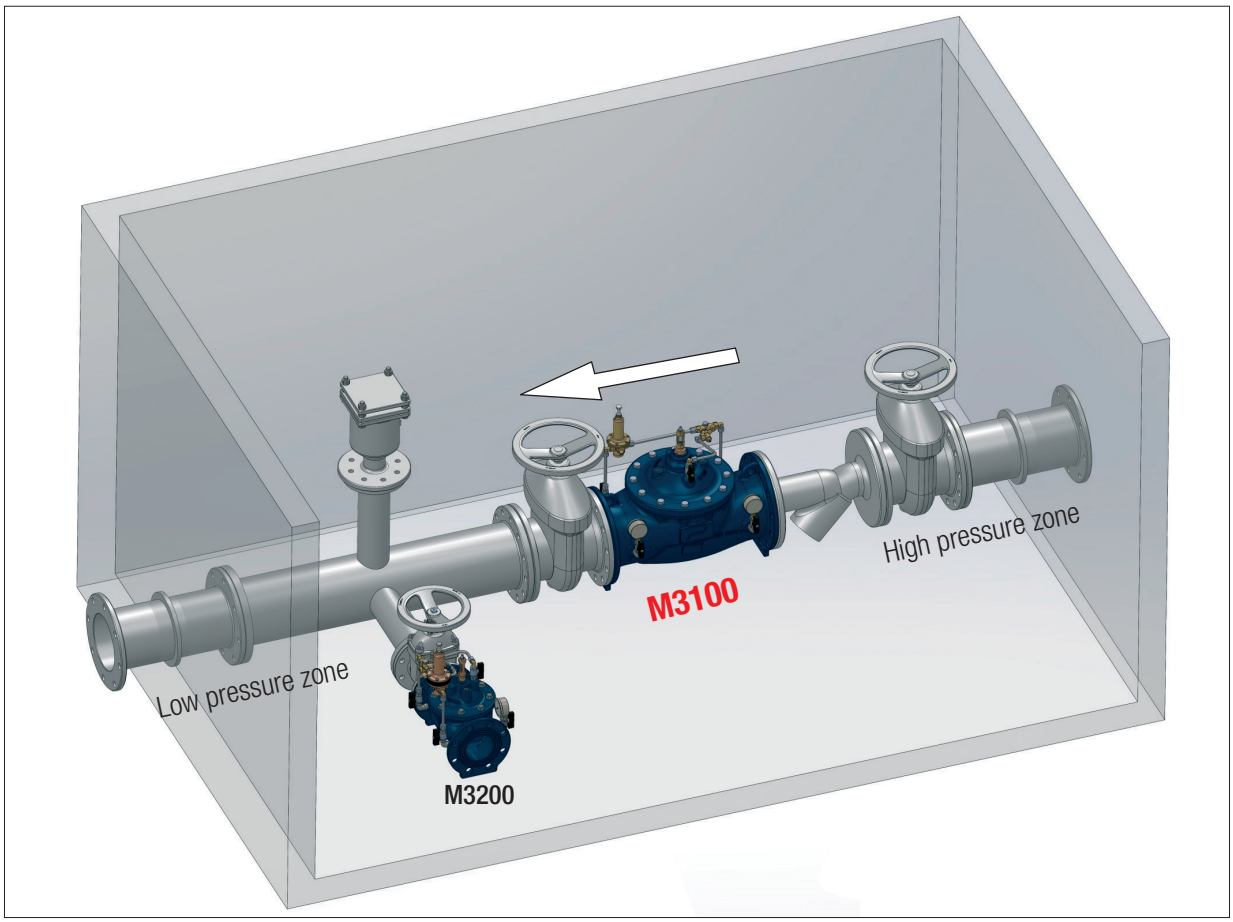
TIS Service reserves the right to make technical changes • ED. 01-2026

CIRCUIT AND MATERIALS

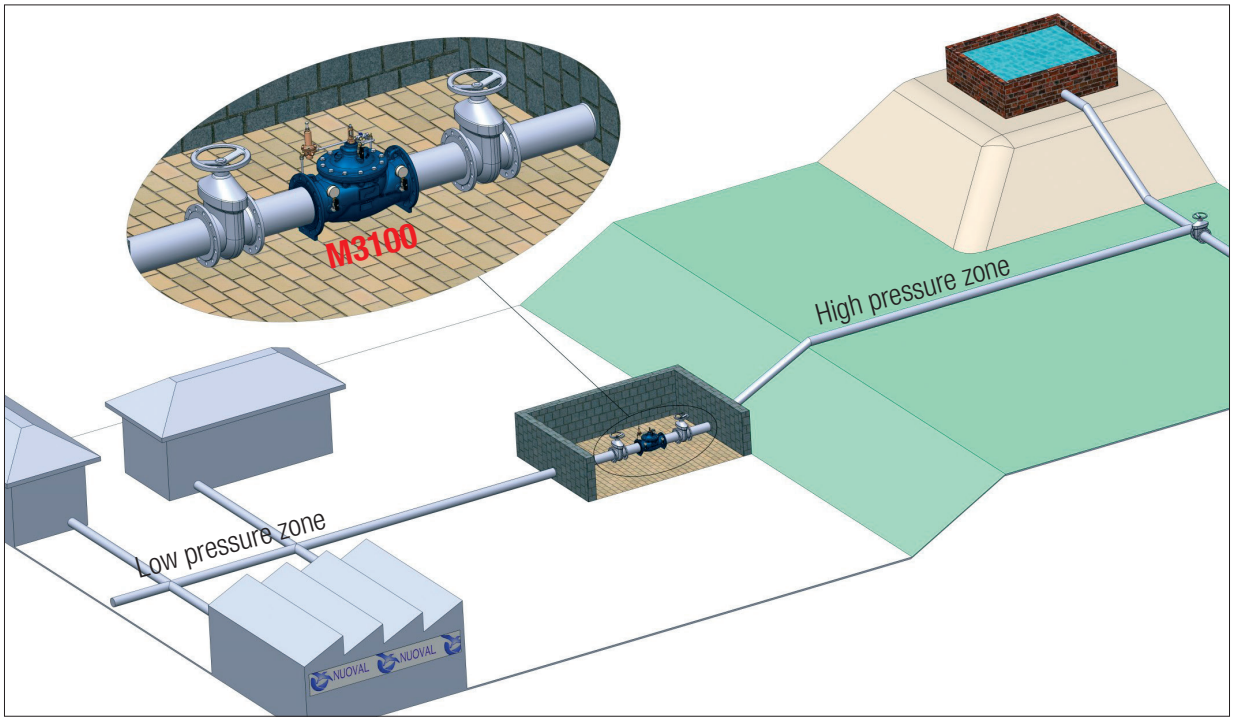


ITEM	DESCRIPTION	MATERIALS (STANDARD)	MATERIAL (HQY - HQ)
1	Main valve	GJS400-15 EN1563	GJS400-15 EN1563
2 (a,b)	Isolating ball valve	Ni-plated Brass	HQY: Ni-plated Brass HQ: 1.4401 EN10088-3
3	Y - strainer with calibrated orifice	1.4401 EN10088-3 + Brass	1.4401 EN10088-3
4	Monodirectional needle valve	1.4401 EN10088-3 + Brass	1.4401 EN10088-3
5	Pressure reducing pilot	1.4401 EN10088-3 + Brass (CV100)	1.4401 EN10088-3 (CV160)
6	Isolating ball valve	Ni-plated Brass	HQY: Ni-plated Brass HQ: 1.4401 EN10088-3
7	Position indicator with manual venting device	Brass + Hardened glass	1.4401 EN10088-3 + Hardened glass
8 (a,b)	Gauge holder with drainage	Ni-plated Brass	HQY: Ni-plated Brass HQ: 1.4401 EN10088-3
9 (a,b)	Pressure gauge	1.4301 EN10088-3 + Glycerine	1.4301 EN10088-3 + Glycerine
--	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

TYPICAL INSTALLATION



TYPICAL APPLICATION



TIS Service reserves the right to make technical changes • ED. 01-2026