



## M3100: PRESSURE REDUCING VALVE



### OPERATING PRINCIPLE

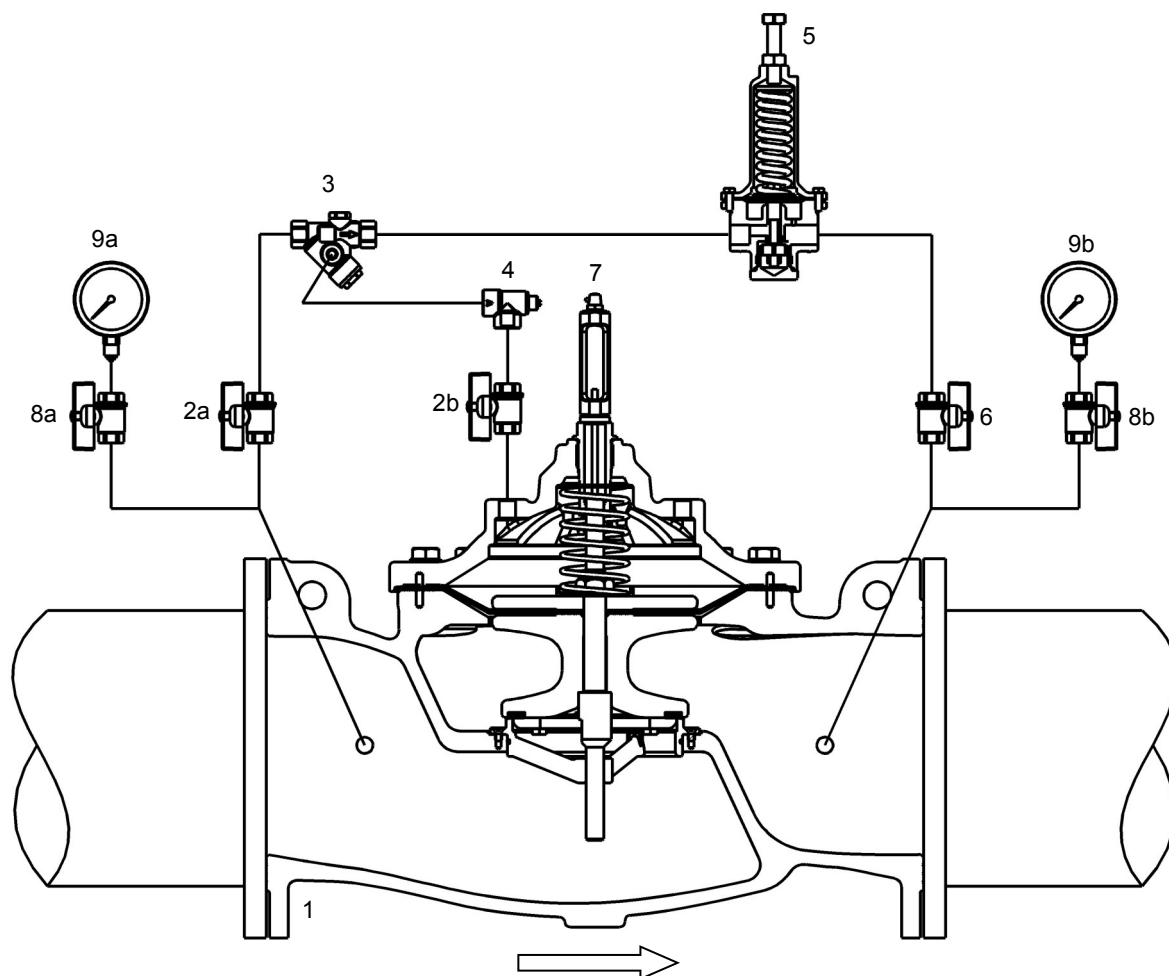
Pressure reducing control valves reduce a higher inlet pressure to a constant, lower, outlet pressure independently of flow rate or inlet pressure fluctuations. They are mainly used to reduce high pressures in distribution networks.

### ADDITIONAL FEATURES AVAILABLE:

- pressure sustaining, the valve can maintain a minimum inlet pressure;
- solenoid on-off control function - a remote controller switches the valve on-off;
- check function - if outlet pressure rises higher than inlet pressure, backflow is prevented;
- reverse flow - the main valve opens fully if outlet pressure is higher than inlet pressure;
- main valve fully open when inlet pressure reaches an adjustable minimum value;
- two adjustable pressure outlet values - switching can be by manual override, or remote electrical solenoid control, or adjustable hydraulic flow control;
- flow rate control;
- on-off float level control valve with outlet orifice to control the flow and prevent cavitation.



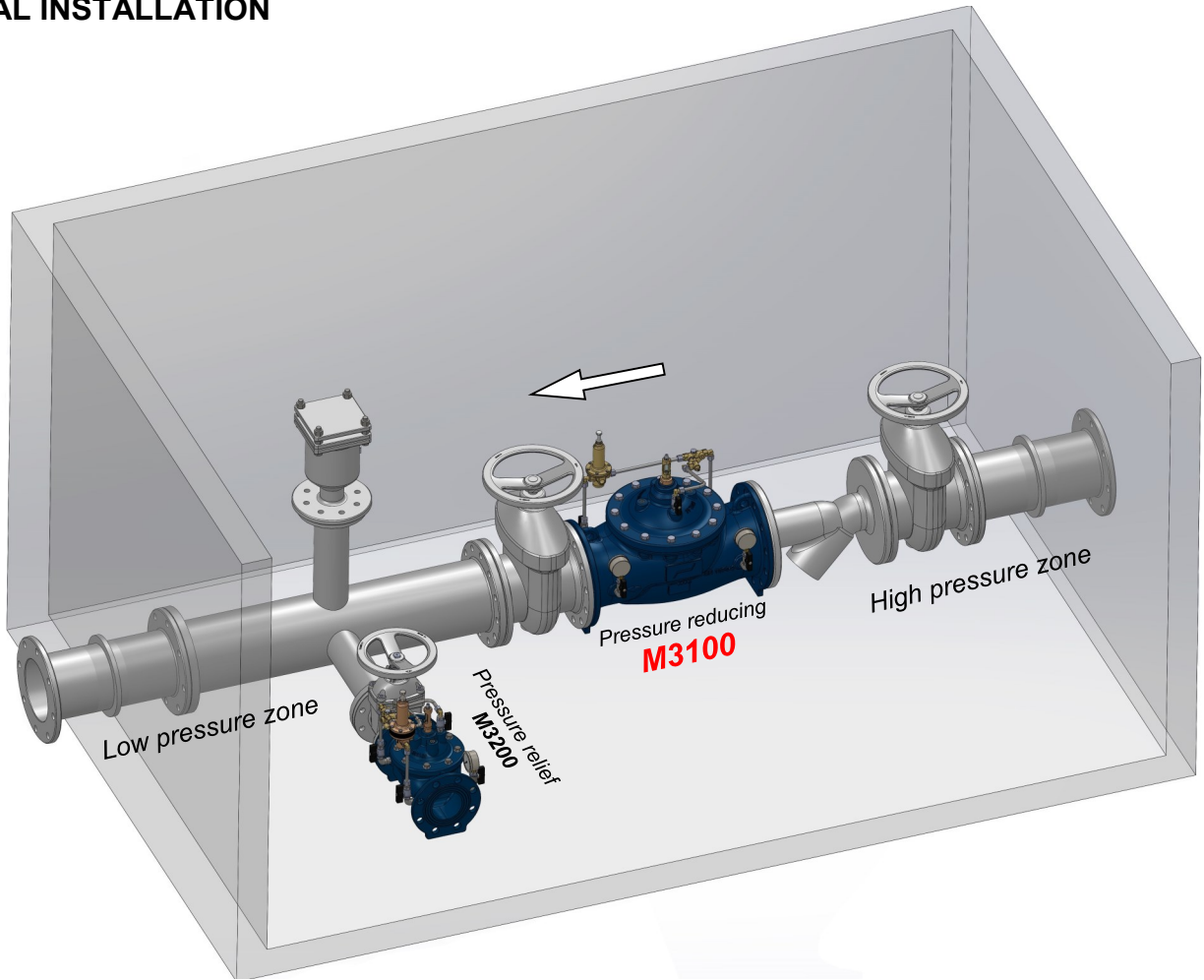
## M3100 CIRCUIT LAYOUT



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



### TYPICAL INSTALLATION



### TYPICAL APPLICATION

