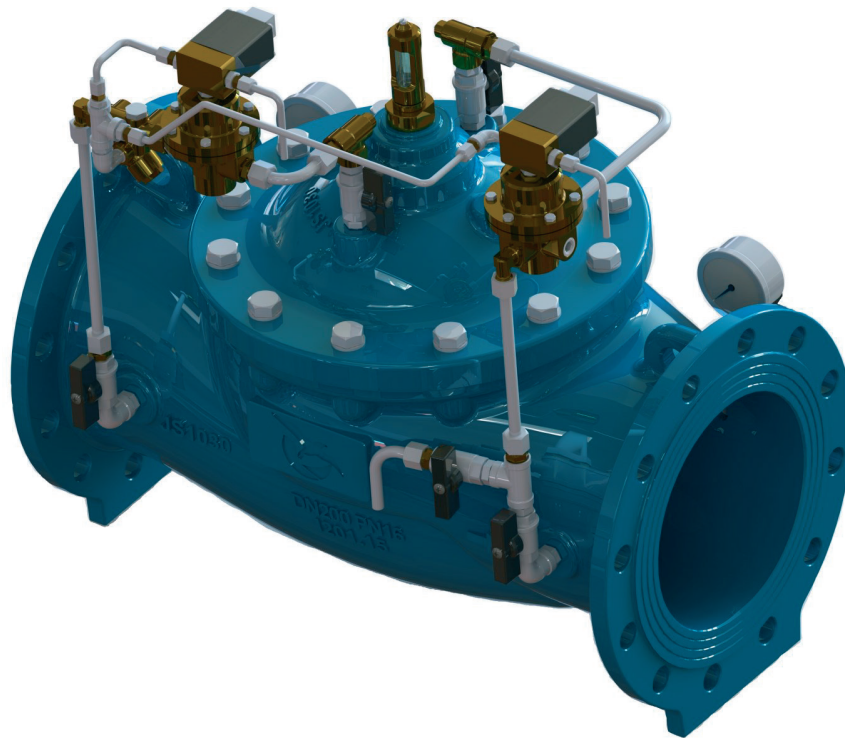


## M3770 • SOLENOID CONTROLLED/ELECTRICALLY POSITIONED “STEP BY STEP” VALVE (FROM DN300 TO DN1200)



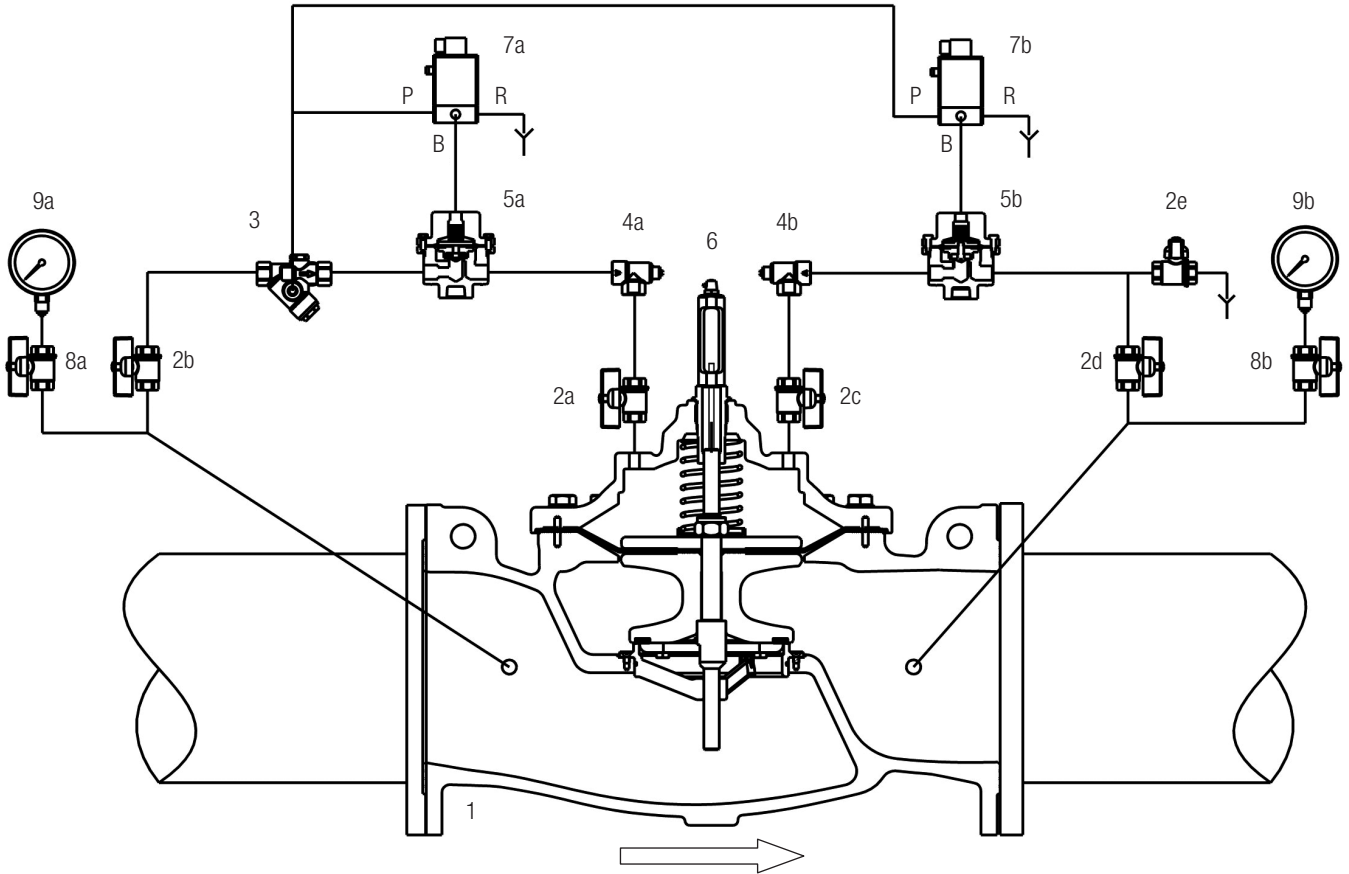
### OPERATING PRINCIPLE

The valve is controlled by two solenoid valves, each one of them acts on an auxiliary valve. The standard configuration of the assembly composed by solenoid valve and auxiliary valve is Normally Closed, which means that, without tension, the main valve remains in the last set position. A remote-control system reads flow or level or pressure sensors and according to a given set point, it manages the two solenoid valves to open or close the main valve in a step-by-step way until the desired set-point is reached.

### ADDITIONAL FUNCTIONS

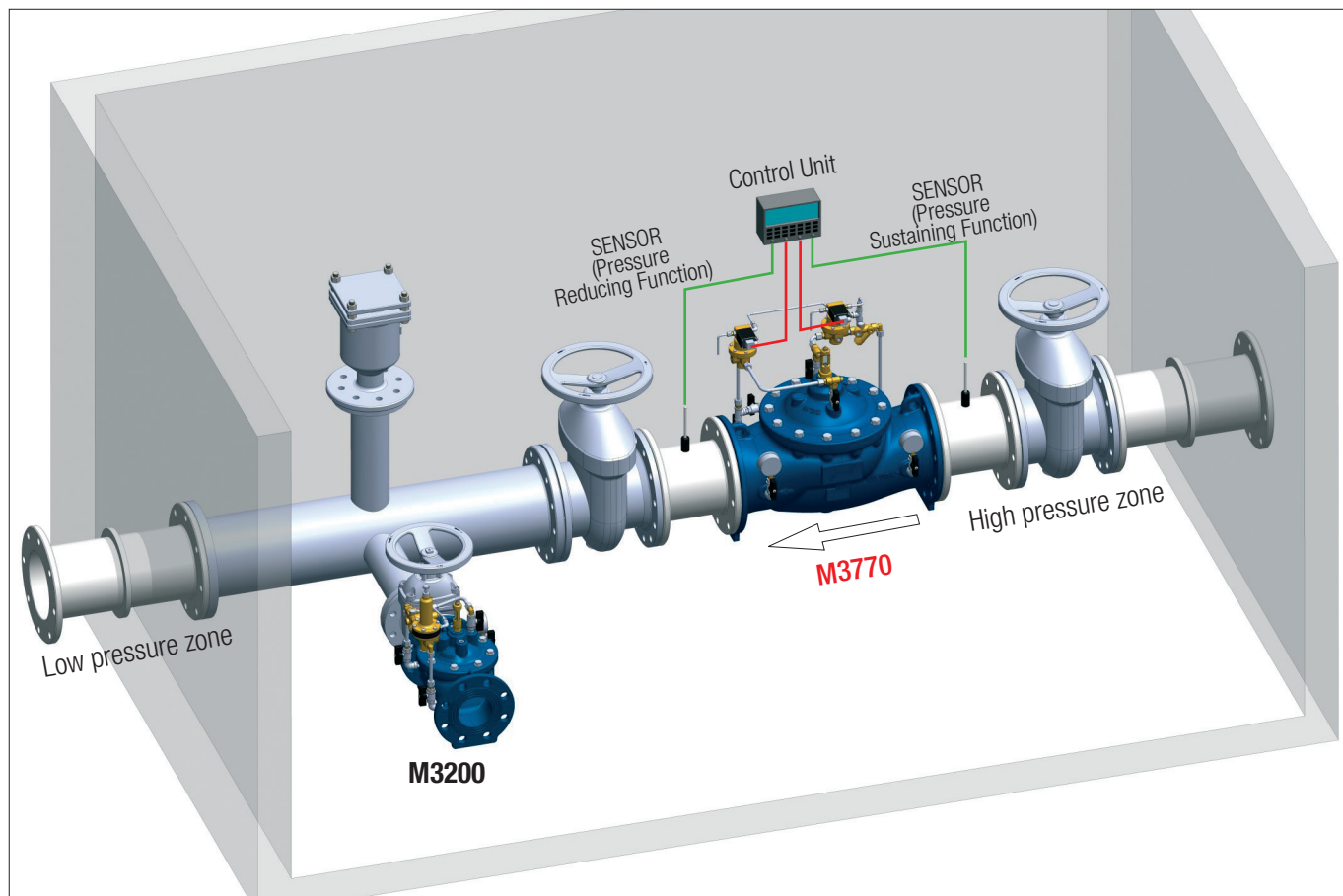
- minimum pressure sustaining;
- non-return;
- tank level control.

CIRCUIT AND MATERIALS



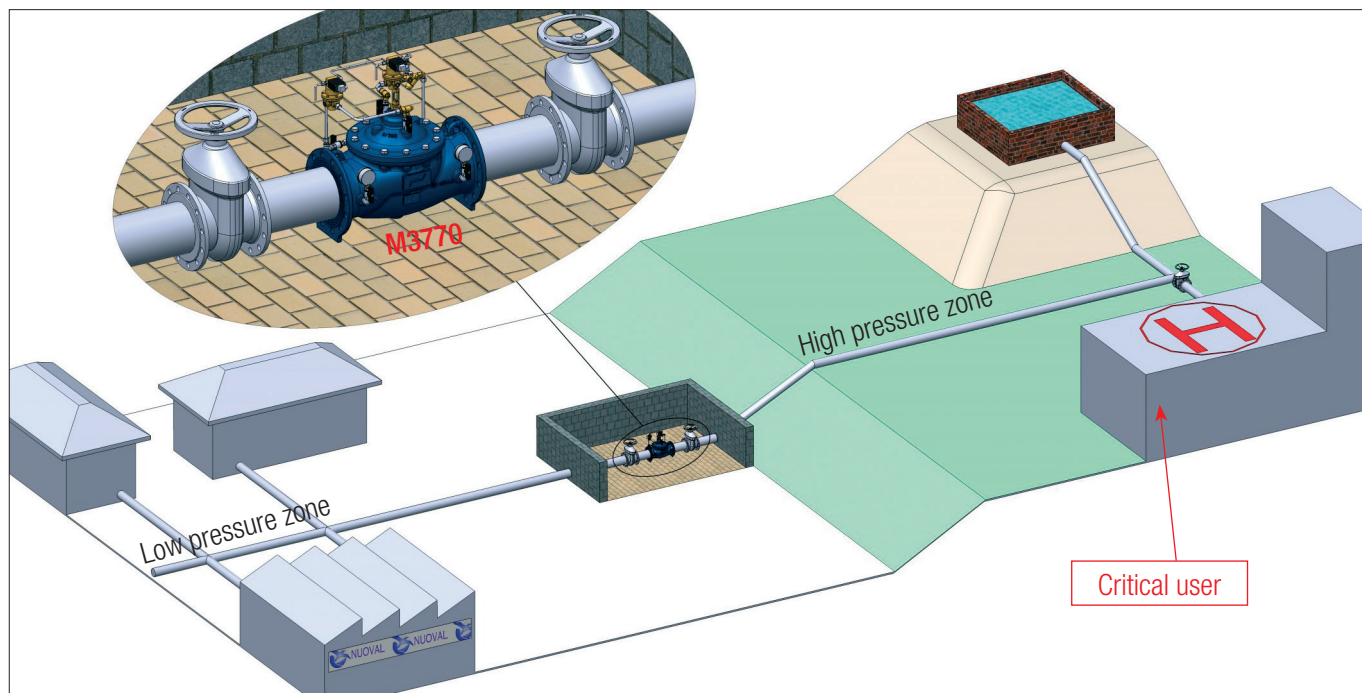
ITEM	DESCRIPTION	MATERIALS (STANDARD)	MATERIAL (HQ / HQY)
1	Main valve	GJS400-15 EN1563	GJS400-15 EN1563
2 (a,b,c,d,e)	Isolating ball valve	Ni-plated Brass	HQY = Nickel plated brass HQ = 1.4401 EN10088-3
3	Y - Strainer with calibrated orifice	1.4401 EN10088-3 + Brass	1.4401 EN10088-3
4 (a,b)	Bidirectional needle valve	1.4401 EN10088-3 + Brass	1.4401 EN10088-3
5 (a,b)	Auxiliary two way N.O. valve	1.4301 EN10088-3 + Brass (VA200)	1.4301 EN10088-3 (VA260)
6	Position indicator with manual venting device	Brass + Hardened glass	1.4401 EN10088-3 + Hardened glass
7 (a,b)	Solenoid valve	Brass	Brass
8 (a,b)	Gauge holder with drain	Ni-plated Brass	HQY = Nickel 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



NUOVAL LINE

TYPICAL APPLICATION



## M3771 • SOLENOID CONTROLLED/ELECTRICALLY POSITIONED “STEP BY STEP” VALVE (FROM DN50 TO DN250)



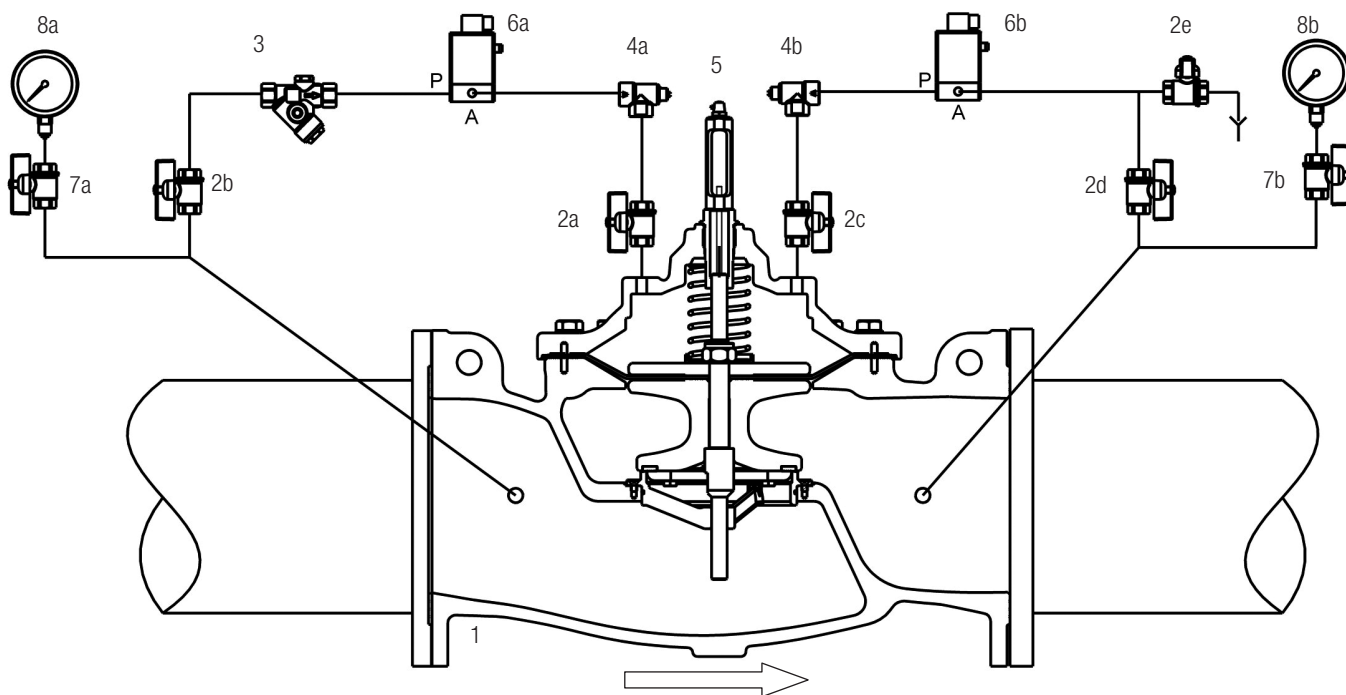
### OPERATING PRINCIPLE

The valve is directly controlled by two-ways/two positions solenoid valves. The standard configuration of the solenoid valves is Normally Closed NC, which means that, without tension, the main valve holds the last set position. A remote-control system reads flow or level or pressure sensors and according to a given set point, it manages the two solenoid valves to open or close the main valve in a step-by-step way until the desired set-point is reached.

### ADDITIONAL FUNCTIONS

- minimum pressure sustaining;
- non-return;
- tank level control.

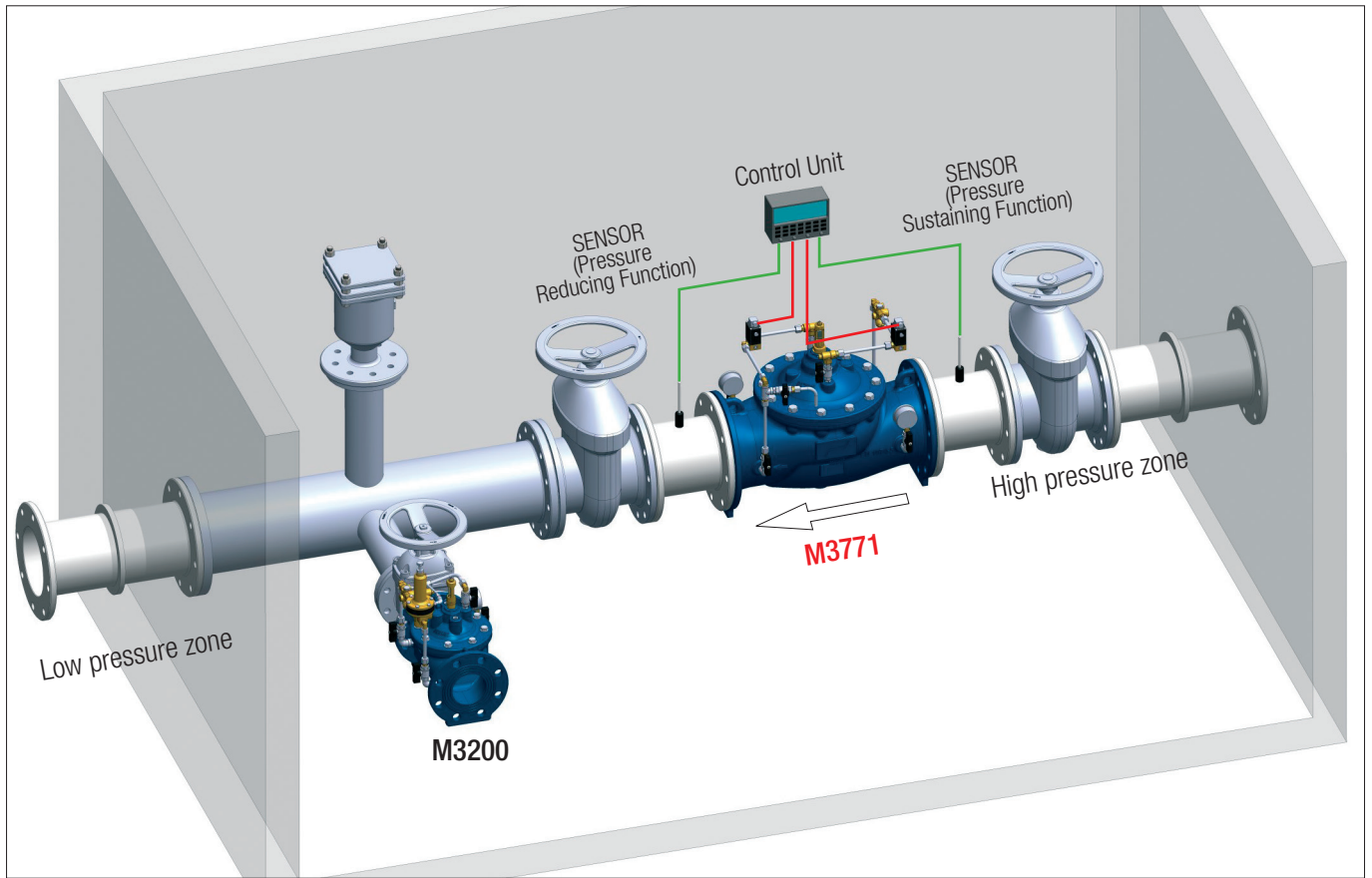
CIRCUIT AND MATERIALS



NUOVAL LINE

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 : Ni-plated Brass HQ : 1.4401 EN10088-3
3	Y - Strainer with calibrated orifice	1.4401 EN10088-3 + Brass	1.4401 EN10088-3
4 (a,b)	Bidirectional needle valve	1.4401 EN10088-3 + Brass	1.4401 EN10088-3
5	Position indicator with manual venting device	Brass + Hardened glass	1.4401 EN10088-3 + Hardened glass
6 (a,b)	Solenoid valve	Brass	---
7 (a,b)	Gauge holder with drain	Ni-plated Brass	HQY : Ni-plated Brass HQ: 1.4401 EN10088-3
8 (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

