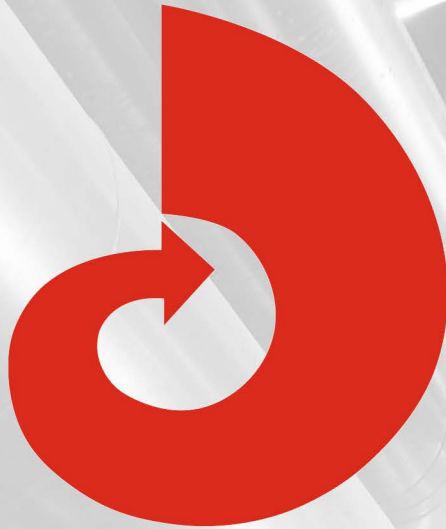


FINE CONTROLS (UK) LTD



Fine Controls have been supplying process controls & instrumentation equipment since 1994, & now serves an ever expanding customer base, both in the UK & globally.

We offer a full range of valve & instrumentation products & services, with our product range representing leading technologies & brands:

Flow: Flow Meters & Transmitters, Flow Switches, Flow Control Valves & Batch Control Systems

Temperature: Temperature Probes & Thermowells, Temperature Transmitters, Temperature Regulators & Temperature Displays

Level: Level Transmitters & Switches

Pressure: Pressure Gauges & Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

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Valves: Solenoid & Pneumatic Valves, Control Valves & Positioners, Actuated Ball, Globe or Diaphragm Valves & Isolation Valves

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Fine Controls (UK) LTD, Bassendale Road, Croft Business Park,
Bromborough, Wirral, CH62 3QL UK
Tel: 0151 343 9966
Email: sales@finecontrols.com

SELF OPERATED PRESSURE REGULATORS

PRESSURE REDUCING VALVE MODEL **VD**

MAIN CHARACTERISTICS

Globe valve, simple seat, direct action and self-operated pressure reducing valve built with piston and specially designed to maintain constant outlet pressure.

Piston guided through 3 points.

Easy and very low maintenance.

Extremely hard baked enamel

Pressure range from 1,5 to 16 barg
(Standard range 1,5 € 8 barg)

Maximum admitted pressure 40 barg

Maximum admitted temperature 80 •C (NBR collars)

Fluids

Liquids, compressed air, non-hazardous gases.

Connections

Flanged DIN PN16- PN40

Flanged ANSI Class 150 and 300 Lb.

Threaded, BSP and NPT female, up to 2,

Body material ð® Nodular Iron GGG40.3,
Bronze, Carbon steel GSC25N and Stainless steel AISI
316L (CF3M).

Trim material Stainless steel AISI 316L
(optionally Bronze).

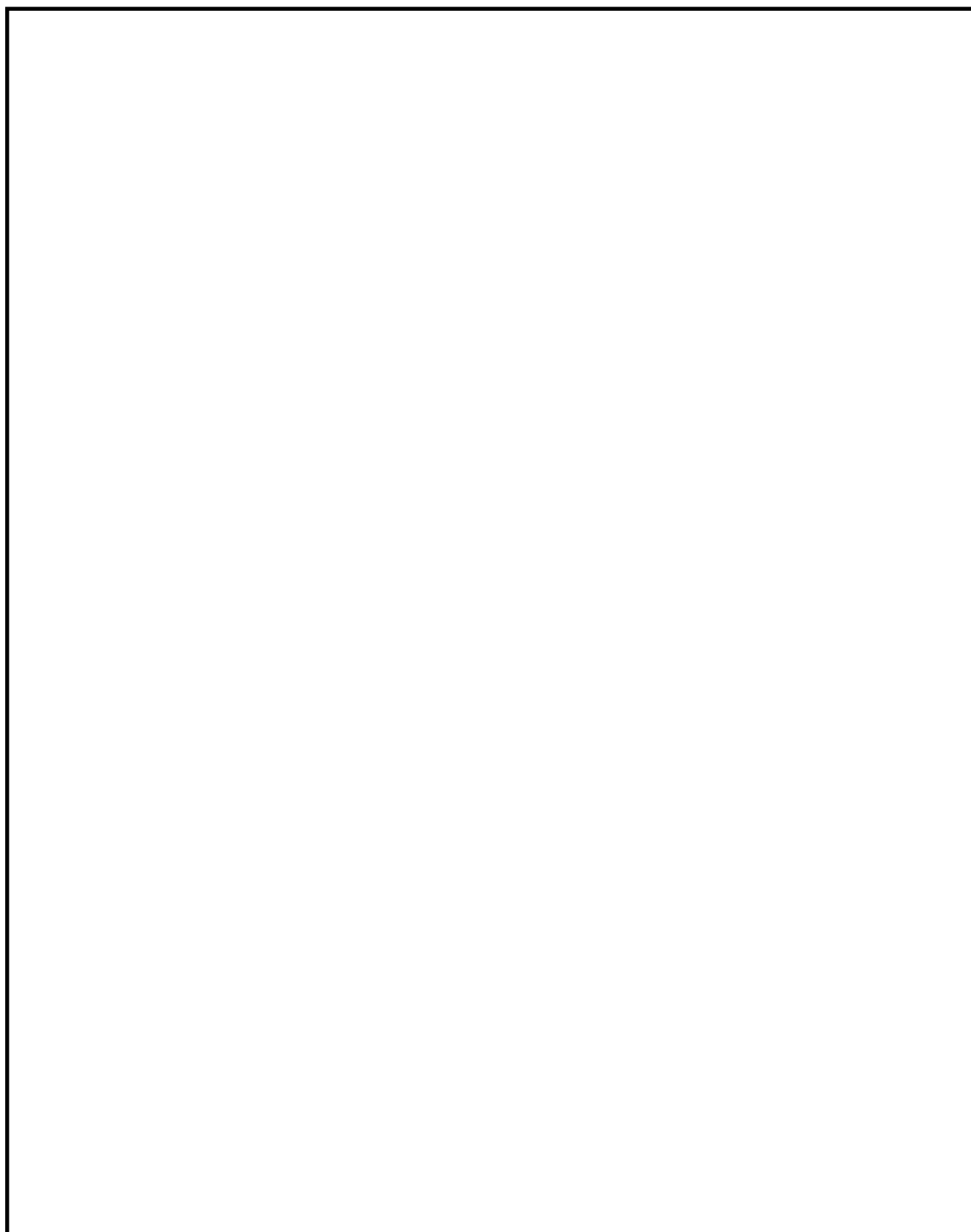
Applications

Chemical laboratory installations, waters distribution systems, installation of waste water, industrial, compressed air, sprinkler systems, fuel-oil, f

METHOD OF FUNCTION

Medium flows through the valve as indicated by the arrow and force stem-piston-gasket (3 € 19 € 26) to close the valve. Inlet and outlet forces are balanced. Outlet pressure is controlled rotating the stem (13) in clockwise. This causes displacement of the spring (10), which itself acts on the seal, opening the valve until it reaches the required downstream pressure.

Any variation on the upstream pressure will be absorbed by reducing by compensating piston (26) and downstream by the bushing (8).



	Descrizione	Material		Descrizione	Material
1	Body	Stainless steel CF8M Bronze RG10 Carbon steel WCB Nodular Iron GGG40.3	18	O-ring	NBR
2	Seat	1.4404 SS316L	19	Lower bushing	1.4404 SS316L
3	Stem	1.4404 SS316L	20	O-ring	NBR
4	Washer	Stainless steel 2A	21	Flat Gasket	PTFE
5	Bolts	Stainless steel 2A	22	O-ring	NBR
6	Upper bushing	1.4404 SS316L	26	Balanced gasket	NBR Graphited PTFE + St. steel
7	Gasket	NBR	27	Lower bushing guide	1.4404 SS316L
8	O-ring	NBR	28	Seal	NBR Graphited PTFE
9	Spring cover	Stainless steel A316	29	Screw	Stainless steel 2A
10	Spring	Steel spring	30	Guide seal	1.4404 SS316L
11	Regulation nut	Steel 1.1191	31	Support seal	1.4404 SS316L
12	Ball bearing	1.3505 (Bearing steel 100 Cr 6)			
13	Regulation stem	1.4404 SS316L	41	Stem	Stainless steel Aisi 316L (DN100)
14	Safety reg. stem washer	Stainless steel 2A	42	O-ring	NBR (DN100)
15	Block Pin	Stainless steel 2A	43	Washer spring	Stainless steel Aisi 316L (DN100)
16	Bushing stem	1.4404 SS316L	44	Screw	Stainless steel 2A (DN100)
17	Nut(s)	Stainless steel 2A			
				Recommended spare parts	

DN100 scheme

Dimensions, weight and Kv value

DN	15	20	25	32	40	50	65	80	100
Kv (m ³ /h)	3.5	5	9	13.5	22	32	57	82	115
Cv (gpm)	4	5.8	10.4	15.6	25	37	66	95	134
A DIN (mm)	130	150	160	180	200	230	290	310	350
A ANSI150 (mm) (inches)	€	€	184 7,25,	-	222 8,75,	254 10,	276 10,9,	298.5 11,75,	352.5 13,88,
A ANSI300 (mm) (inches)	€	€	197 7,76,	-	235 9,25,	267 10,51,	292 11,5,	317.5 12,50,	368 14,49,
B Threaded BSP / NPT	•,	f,	1,	1.25,	1.5,	2,	-	-	-
L (mm)	240	240	250	250	300	300	415	430	490
Weight (kg.)	10	10	12	13	16	18	30	40	50

€ Available under request

INSTALLATION DRAWING

Installation is recommended according to the following drawing:

- 1, 1a y 1b Ø Isolation globe valves
- 2 Ø Filter
- 3 Ø Inlet pressure
- 4 Ø Pressure reducing valve VD
- 5 Ø Safety valve
- 6 Ø Outlet pressure