

altecnic

SERIES 300

pressure reducing valve pilot operated

Application

The Series 300 is an automatic, pilot controlled, pressure reducing valve utilising the upstream and downstream pressures.

The valve reduces the upstream pressure to a predetermined downstream pressure, regardless of fluctuations in upstream pressure or flowrate.

Should the downstream pressure exceed the predetermined pressure, for example if the flow is isolated the valve closes automatically.

The Series 300 valves are designed for commercial and industrial applications.

Design

The Series 300 has the capability to regulate to near zero flow, as a standard feature on all sizes, eliminating the need for special low flow devices or bypasses.

The valve has an internal floating shaft, reducing friction and eliminating the need for additional stem seals.

The guided disc has a resilient facing for improved isolation and resistance to erosions.

During valve closure, the rate slows as the disc approaches the closed position minimising the effects of 'water hammer' or pressure surge.

The body and cover are made from ductile iron for increased mechanical strength.

Construction Details

Component	Material
Body	Ductile iron
Bonnet	Ductile iron
Disc	Ductile iron
Disc seal	Elastomer
Stem	Stainless steel
Seat	Stainless steel
Diaphragm	Elastomer
Seals	Elastomer

Hydraulic Characteristics

Ref No	PN	Continuous Recommended Max Flowrate	Minimum Recommended Flowrate	Κv	Control Chamber Volume
		m³/hr	m³/hr	m³/hr	litres
FL-30050	50	40	<1	43	0.1
FL-30065	65	40	<1	43	0.1
FL-30080	80	90	<1	103	0.3
FL-300100	100	160	<1	167	0.7
FL-300150	150	350	<1	407	1.5
FL-300200	200	480	<1	676	4.3
FL-300250	250	970	<1	1160	9.7
FL-300300	300	1400	<1	1600	18.6

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Dimensions - Basic Valves



Ref No	А	В	С	D - NPT	E - NPT	kg
FL-30050	230	165	135	1⁄2"	1⁄4"	12
FL-30065	290	1185	184	1⁄2"	1⁄4"	13
FL-30080	310	200	272	1⁄2"	1⁄4"	22
FL-300100	350	220	295	1⁄2"	1⁄4"	37
FL-300150	480	285	376	1/2"	1⁄4"&1⁄2"	80
FL-300200	600	340	628	1⁄2"	1⁄4"	157
FL-300250	730	405	538	1/2"	1⁄4"	245
FL-300300	850	460	614	1/2"	1⁄4"	405

Note: Sufficient space must be allowed for the pilot valve, pipework and fittings, which can exceed the width and height of the valve.

The dimensions above are for the basic valve and should only be used as the starting point when estimating the required space.

Technical Data

Max upstream pressure:	16 bar
Max working temperature:	85°C
Medium:	potable water
Face to face:	BS EN 558 Series 1
Flanged PN16:	BS EN 1092-2
Flanged PN25:	Available on request

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