



Product Catalogue
Series 300 Valves

Series 300 Valves

Series 300 Valves
Catalogue

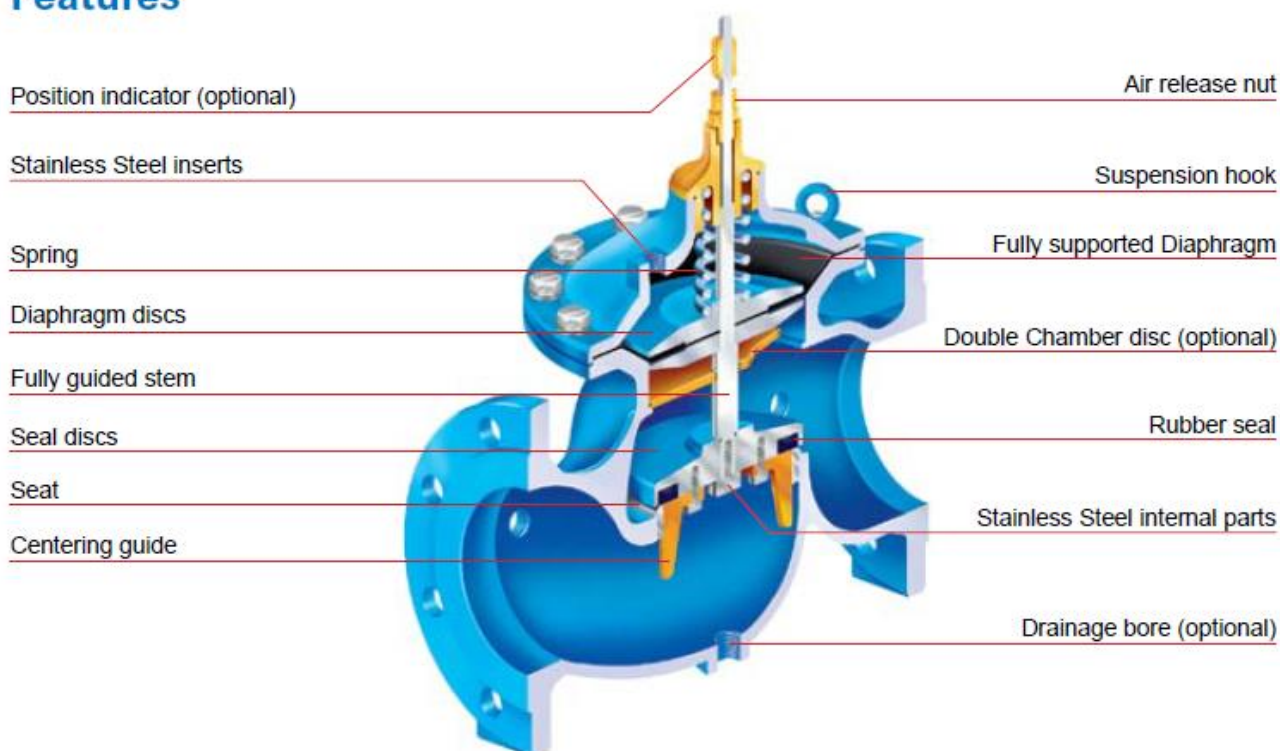


Overview

DOROT'S 300 Series, the latest line of state-of-the-art globe type automatic control valves, is designed to withstand even the most demanding requirements of water system control. The experts at DOROT developed this technically-advanced line with capabilities, far beyond any other valve on the market.

This Engineering Data guide will assist the reader in the selection of the optimal DOROT Series 300 valve.

Features



Features of the 300 Series

- The capability to regulate near zero flow, as standard on all sizes, completely eliminating the need for a special low flow device (throttling plug) or a low flow bypass valve, while ensuring very low head loss in "fully open" position.
- A standard valve model, fit for all control operations. A specific pilot(s) provides the required application.
- The flange (face-to-face) dimensions suit ISO Standards. This allows for quick and easy replacement of old equipment, without the need for additional pipeline modifications.
- The valve has an internal floating shaft, allowing for no friction or leakage, eliminating the need for shaft sealing. The unique design of the shaft provides for easy field maintenance.
- The valve has a resilient seal disc, guided by an almost frictionless centering device.
- The valve's body is made of Ductile Iron, withstanding both high hydraulic and mechanical stresses.
- A standard single-chamber valve, enabling jam-free operation in sensitive regulation conditions. When required, conversion from a single to a double chambered valve is easily accomplished through the insertion of Dorot's innovative separation disc, without the need to remove the valve from the pipeline during the conversion.
- The valve is supplied with a replaceable seat, made of SST, which maintains excellent durability against erosion and ensuring a drip-tight seal.
- During the closing procedure, the pace slows down, preventing any damage that may occur from water slam/surge.
- The series includes, as an optional feature, a valve position indicator, attached by a floating connection (ball & socket), resulting in smooth movement, with no wear or tear on the indicator seal.

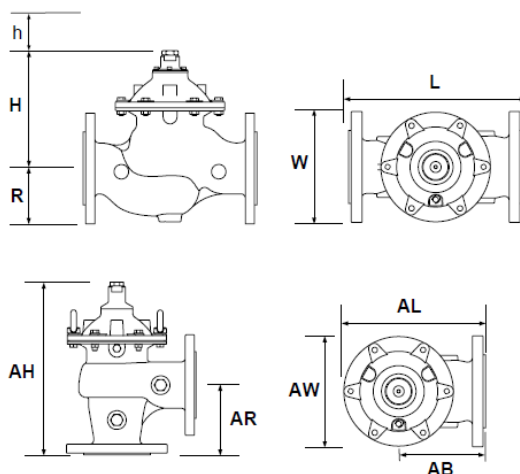
Dimensions & Weights

Models 30 (16 bar rated valves) / 31 (25 bar rated valves)

Globe Flanged Type

Valve Size	40 (1½")		50 (2")		65 (2½")		80 (3")		100 (4")		150 (6")	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
L	230	9 ¹ / ₁₆	230	9 ¹ / ₁₆	292	12 ¹ / ₂	310	12 ³ / ₁₆	350	13 ³ / ₄	480	18 ⁷ / ₈
H	185	7 ⁵ / ₁₆	185	7 ⁵ / ₁₆	185	7 ⁵ / ₁₆	230	9 ¹ / ₁₆	240	9 ⁷ / ₁₆	330	13
h**	140	5 ¹ / ₂	140	5 ¹ / ₂	140	5 ¹ / ₂	170	6 ¹¹ / ₁₆	180	7	230	9
W	153	6	170	6 ¹¹ / ₁₆	185	7 ³ / ₁₆	200	7 ⁷ / ₈	235	9 ¹ / ₄	330	13
R	82.5	3 ¹ / ₄	82.5	3 ¹ / ₄	92.5	3 ⁵ / ₈	100	3 ¹⁵ / ₁₆	110	4 ⁵ / ₁₆	142.5	5 ⁵ / ₈
Weight Kg/lbs*	12 / 26		12 / 26		13 / 29		22 / 49		37 / 82		80 / 176	
Vol. control chamber lit/gal	0.1 / 0.02		0.1 / 0.02		0.1 / 0.02		0.3 / 0.08		0.7 / 0.2		1.5 / 0.4	

Valve Size	200 (8")		250 (10")		300 (12")		350 (14")		400 (16")	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
L	600	23 ⁵ / ₈	730	28 ³ / ₄	850	33 ⁷ / ₁₆	980	38 ⁹ / ₁₆	1100	43 ⁵ / ₁₆
H	390	15 ³ / ₈	520	20 ¹ / ₂	635	25	635	25	855	33 ⁵ / ₈
h**	300	11 ¹³ / ₁₆	390	15 ¹ / ₄	450	17 ¹¹ / ₁₆	450	17 ¹¹ / ₁₆	590	23 ¹ / ₄
W	415	16 ⁵ / ₁₆	525	20 ¹¹ / ₁₆	610	24	610	24	850	33 ⁷ / ₁₆
R	172.5	6 ³ / ₄	205	8 ¹ / ₁₆	230	9	272	10 ¹¹ / ₁₆	290	11 ⁷ / ₁₆
Weight Kg/lbs*	157 / 346		245 / 540		405 / 893		510 / 1124		822 / 1812	
Vol. control chamber lit/gal	4.3 / 1.1		9.7 / 2.6		18.6 / 4.9		18.6 / 4.9		50 / 13.2	



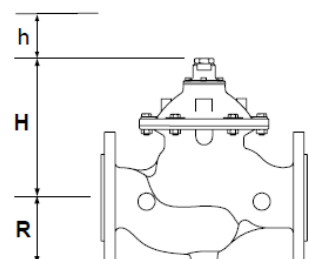
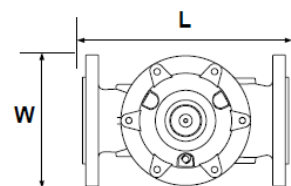
Dimensions & Weights

Model 32 (25 bar rated valves)

Globe Flanged Type

Valve Size	80 (3")		100 (4")		150 (6")		200 (8")		250 (10")	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
L	310	12 ³ / ₁₆	350	13 ³ / ₄	480	18 ⁷ / ₈	600	23 ⁵ / ₈	730	28 ³ / ₄
H	185	7 ¹ / ₄	232	9 ³ / ₁₆	250	10	334	13 ¹ / ₈	395	15 ¹ / ₂
h**	107	4 ¹ / ₄	156	6 ¹ / ₈	170	6 ³ / ₄	220	8 ¹¹ / ₁₆	275	10 ¹³ / ₁₆
W	200	7 ⁷ / ₈	235	9 ¹ / ₄	300	11 ³ / ₄	360	14 ³ / ₁₆	425	16 ³ / ₄
R	100	3 ¹⁵ / ₁₆	120	4 ¹¹ / ₁₆	150	5 ⁷ / ₈	182	6 ³ / ₁₆	215	8 ⁷ / ₁₆
Weight Kg/lbs*	15 / 33		27 / 60		51 / 112		92 / 202		171 / 377	
Vol. control chamber lit/gal	0.1 / 0.02		0.3 / 0.08		0.7 / 0.2		1.5 / 0.37		4.3 / 1.1	

Valve Size	300 (12")		350 (14")		400 (16")	
	mm	inch	mm	inch	mm	inch
L	850	33 ⁷ / ₁₆	980	38 ⁹ / ₁₆	1100	43 ⁵ / ₁₆
H	545	21 ¹ / ₂	635	25	635	25
h**	400	15 ³ / ₄	480	18 ⁷ / ₈	480	18 ⁷ / ₈
W	489	19 ¹ / ₄	610	24	628	24 ³ / ₄
R	245	9 ³ / ₈	260	10 ³ / ₁₆	314	12 ³ / ₈
Weight Kg/lbs*	330 / 726		510 / 1124		544 / 1197	
Vol. control chamber lit/gal	9.7 / 2.6		18.6 / 4.9		18.6 / 4.9	



h* = minimal required maintenance space