



arflu
INDUSTRIAL VALVES

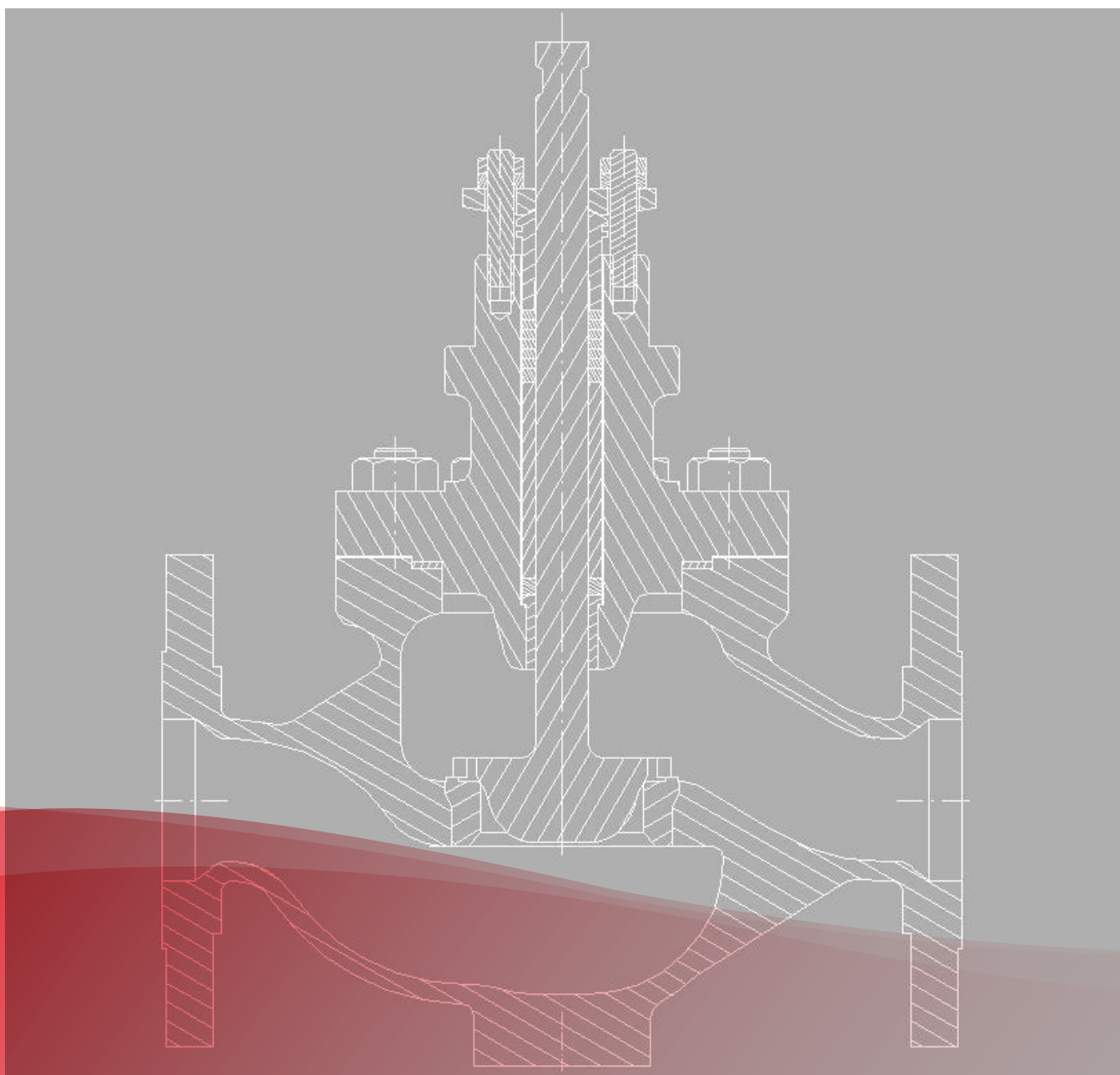
SERIES 15000

Single Seated Contour trim Globe Type Control Valve

Nominal Sizes: $\frac{1}{2}$ " TO 8"

Pressure Rating: ASME 150# & 300#

Temperature: -40°C to 550°C



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Temperature: -40°C to 550°C

General purpose control valve for process engineering and plants with industrial requirement. Designed to provide a cost effective solution to a variety of process Control application.

Features

- Compact Design
- Low Weight
- Economic product due to compact design
- Easy for maintenance
- Equal Percentage and linear inherent Flow characteristics
- Interchangeability of trim components and soft parts
- Leakage Class up to Class VI (as per ANSI/FCI-70-2)
- Suitable for mounting Instruments Like Positioner, Air set, Limit switches, Positioner Transmitter

Nominal size:

1/2" to 8" Size

Pressure Ratings:

ANSI/ASME 150 & 300#

End Connection Styles:

Flanged RF, RTJ as per ANSI B16.5, DIN 2632,2633,2634,2635

Face to face dimensions

As per standard ISA 75.08.01

Body Material:

ASTM/ASME A216 Gr. WCB or ASTM A352 - LCB, A351 Gr. CF8M or A217 Gr. WC6 and other materials as request

Trim Type: Contoured- Metal and Soft Seats

Trim Material:

As standard, AISI SS316, with Stellite on request and other materials as request



Bonnets:

Standard Type	Temperature range: -30° C to 220° C
Extended Type	220° C to 550° C
Bellow seated stem	Below -30° C to -40° C -10° C to 450° C

Valve Bonnets:

Bonnet - Standard Type

Material: ASTM A 216- WCB or ASTM A352 - LCB & ASTM A 351- CF8M
For temperatures of -40° C to 220° C

Bonnet - Extended type

Material: ASTM A 216- WCB
For temperatures of 220° C to 400° C
& Below -30° C to -40° C

Material: ASTM A 351- CF8M
For temperatures of 220° C to 550° C

Spindle seal by packing gland with open packing rings

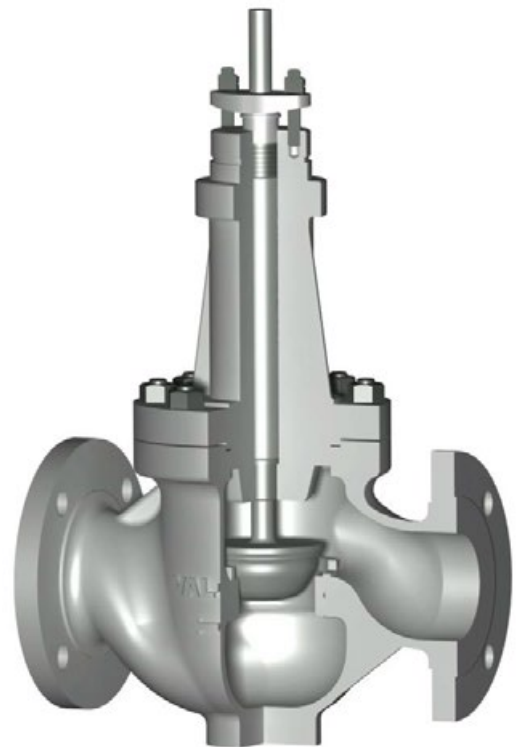
Bonnet - Bellows Sealed Stem

Material: ASTM A 216- WCB or ASTM A352 - LCB & ASTM A 351- CF8M
For temperatures of -40° C to 450° C

Bellows Types:

Up to 15 bar operating pressure, single-wall bellows
Up to 32 bar operating pressure, double-walled
Bellows type

Bellows, plug spindle anti-rotation device designed as one unit. The bellow is protected by anti-rotation device against damage During assembly. To check bellows tightness there is a test Chamber between bellows and safety packing



Control valves Body Dimensions and Weight:-

Nominal Size DN		Face-to-face dimensions			Body + bonnet height			Weight
DIN	ANSI	DIN	ISA 75.08.02		A1 Standard mm	A2 Extended mm	A3 Bellows Seal mm	Kg (Appx)
			150 RF	300 RF				
15	½"	130	-----	190.5	70	235	264	8
20	¾"	150	-----	193.7				11
25	1"	160	184.2	196.9	56	221	250	11
32	1 ¼"	180	-----	-----				11
40	1 ½"	200	222.3	235	78			23
50	2"	230	254.0	266.7				28
65	2 ½"	290	276.2	292.1	129	243	412	30
80	3"	310	298.5	317.5	171	285	416	35
100	4"	350	352.4	368.3	177	291	422	50
150	6"	480	450.9	473.1	332	332	746	140
200	8"	600	542.9	568.3	474	474	810	180

Selection of Materials:

Control-Valve Parts	Materials at temperatures of		
	-40 to 220° C	Above +220 to 400° C	above +400° C to +450
Body	WCB/LCB CF8M	WCB CF8M	WC6/CF8M
Valve trim Seat and plug Seal unit	AISI-316 AISI-316 and PTFE With glass fibers Monel or 17-4PH	AISI-316 AISI-316 stellited Seating surface AISI-316 Completely stellited	AISI-316 AISI-316 stellited Seating surface AISI-316 Completely stellited
Stem and bellows seal unit	AISI-316	AISI-316	AISI-316
Bonnets	WCB/LCB CF8M	WCB CF8M	WC6 CF8M
Stem guiding above	17-4 PH / SS316+Stellite	17-4 PH / SS316+Stellite	SS316+Stellite
Stem seal	PTFE	Graphite	Graphite
Gland	SS316	SS316	SS316
Gasket	SS 316L + Graphite	SS 316L + Graphite	SS 316L + Graphite
Studs	ASTM A193 Gr.B7 / ASTM A320 Gr. L7 / ASTM A193 Gr.B8C	ASTM A193 Gr.B7 / ASTM A193 Gr.B8C	ASTM A193 Gr. B16 / ASTM A193 Gr.B8C
Nuts	ASTM A194 Gr.2H / ASTM A194 Gr.7 / ASTM A194 Gr.8C	ASTM A194 Gr.2H / ASTM A194 Gr.8C	ASTM A194 Gr. 7 / ASTM A194 Gr.8C

Cv values for parabolic plugs with Equal-percentage characteristics

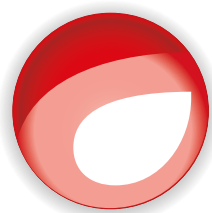
Seat dia.in mm			4				6	10	15	20	30	40	50	65	80	95	120	145	195	Valve rangeability						
Strike in mm	Nominal size DN	1/2"	15	0.1 0.12	0.25 0.29	0.4 0.5	0.6 0.7	0.8 0.93	1.0 1.2	2 2.3	3.5 4.1	5 5.8														
		3/4"	20								5 5.8	8 9.3														
		1"	25										15 17													
		1 1/4"	32									0.9 1.0	1.3 1.5	3 3.5												
		1 1/2"	40									4.5 5.2	6 7.0	10 11.5		15 17										
		2"	50									22 25	27 31	36 42 40 46												
		2 1/2"	65												65 75											
		3"	80								11 13	17 20	24 28	34 39	50 58	70 81	100 116									
		4"	100															160 185								
		45	6"	150											60 69	80 93	120 139		250 289		360 417					
55	8"	200															180 208	270 313		480 555	600 694	30:1				
Kvs values: Cv Values																						Cv=1.156Kvs				

* Seat/plug with increased opening ratio

Cv values for parabolic plugs with Linear-percentage characteristics

Seat dia.in mm			4				6		10		15		20		30		40		50		65		80		95		120		145		195		Valve rangeability							
Strike in mm	Nominal size DN	1/2"	15	0.1 0.12	0.25 0.29	0.4 0.5	0.6 0.7	0.8 0.93	1.0 1.2	2 2.3	3.5 4.1	5 5.8	8 9.3	17 20	11 13	17 20	27 31	34 39	30 44	44 51	55 64	70 81	75 87	110 127	120 139	160 185	200 231	300 347	360 417	480 555	600 694									
		3/4"	20																																					
		1"	25																																					
		1 1/4"	32																																					
		1 1/2"	40																																					
		2"	50																																					
		2 1/2"	65																																					
		3"	80																																					
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45	6"	150	50:1																																					
55	8"	200		30:1																																				
Kvs values: Cv Values																																Cv=1.156Kvs								

* Seat/plug with increased opening ratio



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Absolute Regulation of Fluids



SPAIN
HEAD OFFICE & FACTORY

Polígono Telleriondo. Calle Olabide 13
Sopela • BIZKAIA 48600 • SPAIN

0034 94 676 60 01
info@arflu.com

www.arflu.com