

Series 2000

Top guided control valve

SPECIFICATION

The Series 2000 comprises a range of single seated, straight through top guided globe valves. Suitable for a wide variety of applications, they offer significant cost/benefit advantages compared to traditional designs.

Features

- Compact design
- Low noise trims
- DIN and ANSI bodies
- Full accessory range
- flow optimized valve body with one seat design
- Versions from DN 15 up to 150
- DIN and ANSI-pressure ratings (PN 40, ANSI 300) (ANSI 300 = 51 bar)
- Body material CS, SS
- Stainless steel trims or hard faced /overlay full stellite
- Leakage rate smaller 0,01% of Kvs for one seat version (0,001% for soft seat)
- Rangeability 50:1
- Seating mounted from top
- PTFE-V-Ring – Packing, spring forced
- extended bonnet for cooling or isolation
- 2-walls bellows
- preformed actuator diaphragm
- air supply pressure for actuator max. 6,0 bar
- actuator diaphragm surface up to 2400 cm²
- ambient temperature of actuator – 40 (-60)... + 100°C (130)
- stroke up to 100 mm
- actuator direction reversible without additional parts und without demounting of the valve



Specifications

Style	Top entry single seated straight through globe valve											
Sizes	mm	15	20	25	32	40	50	65	80	100	125	150
	inch	½	¾	1		1 ½	2		3	4	5	6
Pressure ratings	Carbon steel and stainless steel: ANSI 300 and PN 40 Heating jacket for steel valves: PN 25 and ANSI 150											
End connections	Carbon steel and Stainless steel flanged ANSI 300	Raised face (RF) ANSI B16.5 Raised fce with small groove ANSI B16.5 Raised face with groove for ring type joint (RTJ) ANSI B16.5 Raised face, flange hole drilled ANSI 150 ANSI B16.5 Raised face, small groove, flanges drilled ANSI 150 ANSI B16.5										
	Carbon steel and Stainless steel flanged PN 40	Raised face according to EN 1092-1 Raised faced with groove DIN 2512 Raised face, flange holes drilled PN 16 EN 1092-1 Raised face, grove DIN 2512, flanges drilled PN 16 EN 1092-1										
Bonnet and Packing	Bonnet type	Packing Type		Process temperature								
				°C				°F				
	Standard	PTFE-V-Ring PTFE-Silk Graphite		-10...+250 -10...+280 +200...+450				+15...+485 +15...+536 +390...+840				
	Extension	PTFE-V-Ring PTFE-Silk Graphite		-60...+350 -60...+350 +200...+540				-75...+660 -75...+660 +390...+1000				
	Low temperature	PTFE-V-Ring PTFE-Silk		-100...0 -100...0				-150...+32 -150...+32				
Flow direction*	Fluids	Standard: FTO/FTC		low noise trims: NRE-2: FTO/FTC : NRE-21: FTO : NRC: FTC								
	Gas and steam	Standard: FTO/FTC		low noise trims: NRE-1, NRE-2, NRE-21: FTO								
Characteristics	Linear, equal percentage, quick open											
Flow coefficients	See page 8 to 11											
Rangeability	50:1											

* FTO = Flow to open, FTC = Flow to close
DN 200 – DN 300 on request
Version with welding ends on request



Specifications

Leakage rates	Trim	Leakage class according to ANSI B 16.104	% of kvs value (ca.)	Trim type		Pressure balanced		for DN
				Metal-seat	Soft seat	without	with	
	Standard	II	0,5	•			•	125-150
	Standard	IV	0,01	•		•		15-150
	Special	V	0,001	•	•	•		15-150
	Special	VI	0,0001		•	•		15-150
	Special	VI	0,0001		•		•	125-150

Trim types	Size	Size										
		15	20	25	32	40	50	65	80	100	125	150
Single seat plug With metal seat		•	•	•	•	•	•	•	•	•	•	•
Single seat plug With soft seat		•	•	•	•	•	•	•	•	•	•	•
Single seat with pressure balanced plug with metal seat											•	•
Single seat with pressure balanced plug with soft seat											•	•
Single seat, low noise												
NRE-1 plug With baffle			•	•	•	•	•	•	•	•	•	•
NRE-2 plug		•	•	•	•	•	•	•	•	•	•	•
NRE-21 plug With baffle		•	•	•	•	•	•	•	•	•	•	•

Temperature limits, vs body material	Carbon Steel		Low temperature Steel	High temperature Steel	Stainless steel
	°C	-10...+450	-50...+450	-10...+530	-100...+450
°F	-15...+825	-58...+840	-15...+1000	-150...+840	

Pneum. actuator	See product information Series 2000
Elec. actuator	See product information Series E2000, Honeywell ML

DN80, DN100 pressure balanced on request



Specifications

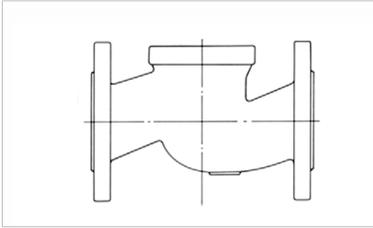


Figure 1: Flanged valve

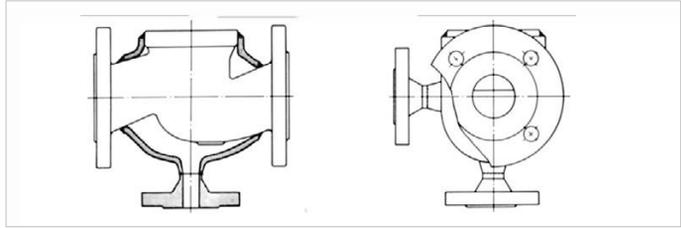


Figure 2: Flanged valve with heating jacket

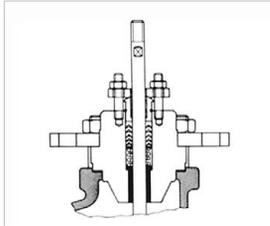


Figure 3: Bonnet with PTFE-V-Ring-packing

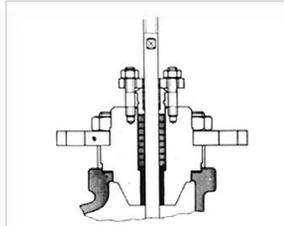


Figure 4: Bonnet with adjustable packing

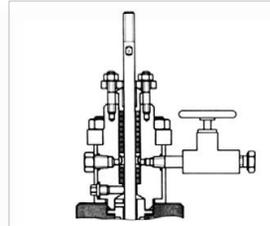


Figure 5: Double packing (extension / bellows bonnet)

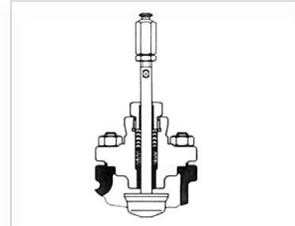


Figure 6: Bonnet with PTFE-V-Rings for Electric actuator

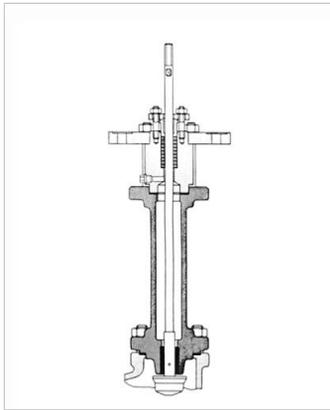


Figure 7: Isolation bonnet adjustable packing

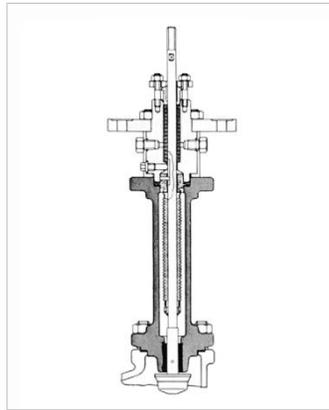


Figure 8: Bellows seal bonnet adjustable packing

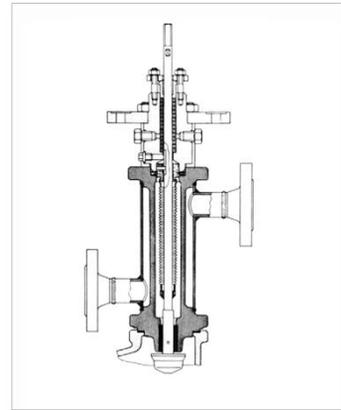


Figure 9: Bellows seal bonnet adjustable packing/heating jacket

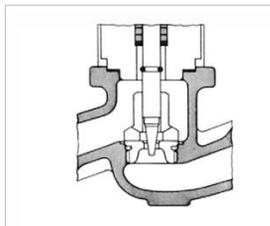


Figure 10: Low flow trim DN15-25

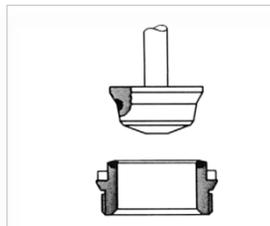


Figure 11: Standard-trim Hard faced seats DN15-100



Figure 12: trim with hard surfacing overlay DN15-100

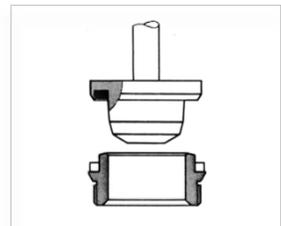


Figure 13: soft seat trim DN15-100

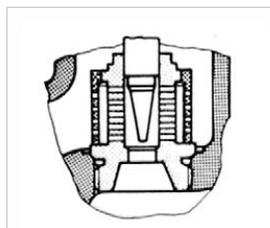


Figure 14: Multi-stage low flow trim NRE-21, DN15-25

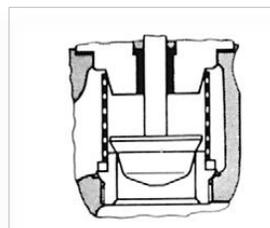


Figure 15: Low flow trim NRE-1, DN15-100

Specifications DN 125 and DN 150

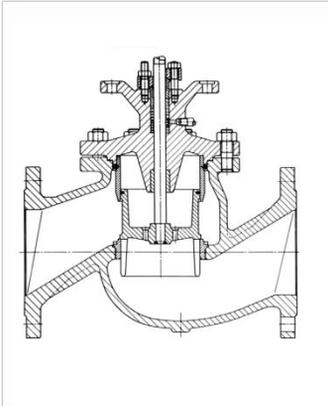


Figure 16: Trim with pressure balance DN 125-150

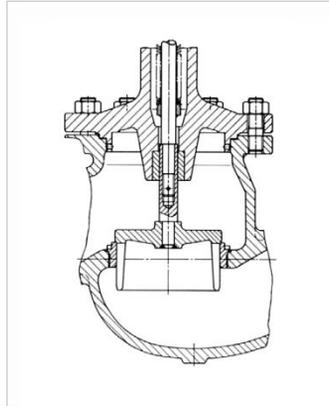


Figure 17: single seated trim

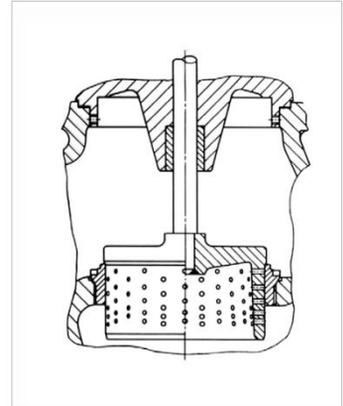


Figure 18: Low noise trim NRE-2

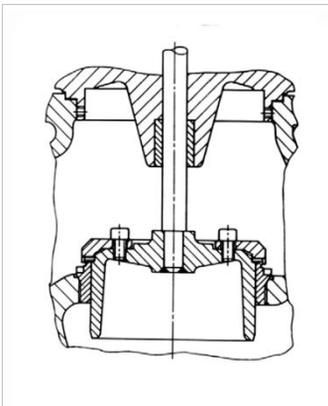


Figure 19: On-Off, soft seat trim

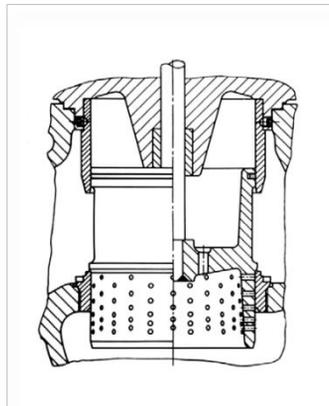


Figure 20: Pressure balanced trim, low noise NRE-2

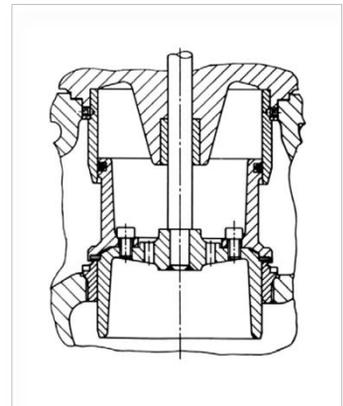


Figure 21: On-Off pressure balance trim with soft seat

- HFS = Hard faced seats Stellite A
- HSO = Hard surfacing overlay (Colmonoy)
- HST = Hard surfacing treatment (Tenifer)
- CP = Chromium Plated
- ZP = gal ZN8cC
- GR = + 15% Glass reinforced
- CS = Carbon steel
- SS = Stainless steel
- LT = Low temperature steel
- HAT = High temperature steel

Other materials on request

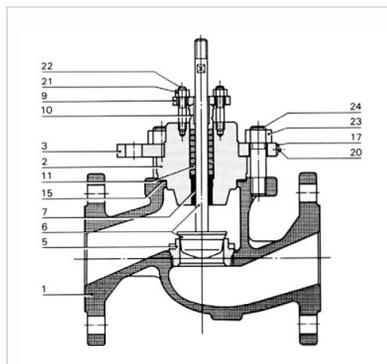


Figure 22: Valve assembly

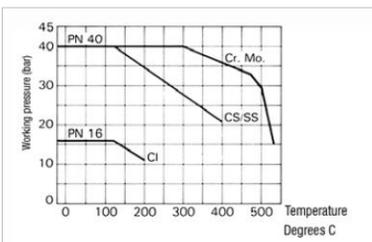


Figure 23: Pressure vs temperature (PN16/40)

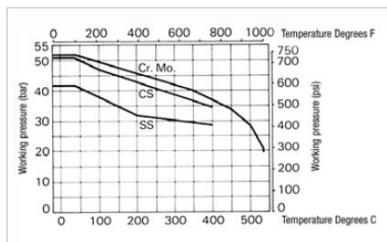


Figure 24: Pressure vs temperature (ANSI 300)

Materials

Body and bonnet	Material	short mark	Material acc. EN 10213	ASTM equivalent
	Carbon steel	CS	1.0619	A-216 WCB
	Low temperature steel	LTCS	1.1138	A-352 LCB
	High temperature steel	HTCr/Mo	1.7357	A-217 WC6
	Stainless steel	SS	1.4581	A-351 CF8M

Trim	Type	Code	Plug (6) ¹	Sseat ring (5)	Stem (6)	Guide bushing (7)	Baffle
	Plug	K1	1.4571	1.4571	1.4571	1.4571 HST	
	Metal seat	K2	1.4571 HFS	1.4571 HFS	1.4571	1.4571 HST	
		K3	1.4404 HSO	1.4404 HSO	1.4571	1.4571 HST	
	Low flow	K7	1.4571	1.4571 HST	1.4571	**	
		K8	Stellit 6	Stellit 6	1.4571	**	
	Low noise trim NRE-1	K9	1.4571	1.4571	1.4571	1.4571 HST	1.4571
		K10	1.4571 HFS	1.4571 HFS	1.4571	1.4571 HST	1.4571
	Low noise trim NRE-2	K12	1.4571	1.4571 HST	1.4571	1.4571 HST	
		K13	1.4571 HSF	1.4571 HSF/HST	1.4571	1.4571 HST	
	Low noise trim NRE-21	K14	1.4571	1.4571 HST	1.4571	1.4571 HST	1.4571
		K15	1.4571 HSF	1.4571 HFS/HST	1.4571	1.4571 HST	1.4571
	Low noise trim NRE-2	K16	1.4571	1.4571 HST	1.4571	**	
		K17	Stellit 6	1.4571 Stellite	1.4571	**	
	Low noise trim NRE-21	K18	1.4571	1.4571 HST	1.4571	**	1.4571
		K19	Stellit 6	1.4571 Stellite	1.4571	**	1.4571
	Soft seat trim	K20	1.4571 + PTFE GR	1.4571	1.4571	1.4571 HST	

¹) Basic material for the plug of 5...6 inch DN 125-150 size valves is 1.4581 instead of 1.4571.

**Guidance in seat ring

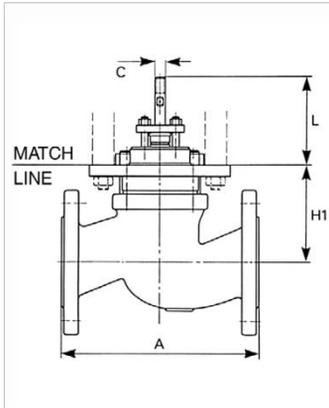


Figure 25: Valve with standard bonnet

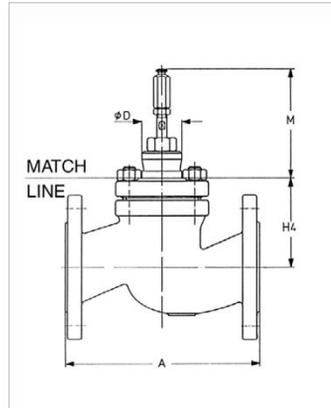


Figure 26: Valve with bonnet for elec. actuator

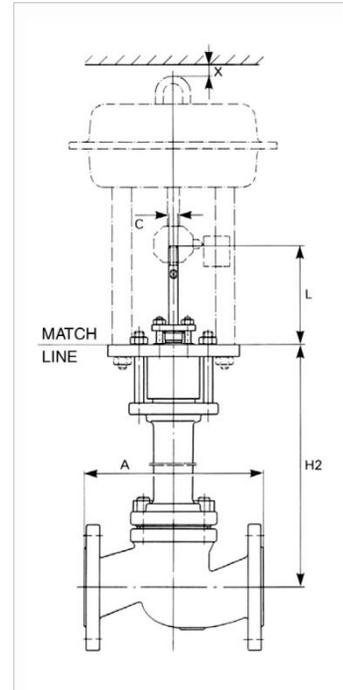


Figure 27: Valve with bellows bonnet or extension



Materials

Other parts (See also part list)	Part description	T.Nr.	Body/bonnet	Body/Bonnet	Body/Bonnet	Body/Bonnet
			Material Cl a. CS	Material LT CS	Material HTCr/Mo	Material SS
	Bonnet studs	24	1.7218	1.7219	1.7219	1.4571 (A4-70)
	Bonnet nuts	23	1.7218	1.7219	1.7219	1.4571 (A4-70)
	Packing studs	22	1.4571 (A4-70) 1.7218	1.4571 (A4-70) 1.7218	1.4571 (A4-70) 1.7218	1.4571 (A4-70)
	Packing nuts	21	1.4571 (A4-70) 1.7218.	1.4571 (A4-70) 1.7218.	1.4571 (A4-70) 1.7218.	1.4571 (A4-70)
	Packing gland	10	1.4571	1.4571	1.4571	1.4571
	Packing flange	9	St. 37 ZP/1.0619 1.4571	St. 37 ZP/1.0619 1.4571	St. 37 ZP/1.0619 1.4571	St. 37 ZP/1.0619 1.4571
	Gland ring	19	1.4401	1.4401	1.4401	1.4401
	Packing spring/ring	12/13	1.4401/1.4571	1.4401/1.4571	1.4401/1.4571	1.4401/1.4571
	Traverse	3	St52-3N/GGG 40.3	St52-3N/GGG 40.3	St52-3N/GGG 40.3	St52-3N/GGG 40.3
	Bonnet drain plug	27	1.4571	1.4571	1.4571	1.4571
	Bellows and stem	8	1.4571	1.4571	1.4571	1.4571
	Gasket	15	Graphite/1.4401	Graphite/1.4401	Graphite/1.4401	Graphite/1.4401
	Nameplate	17	1.4308	1.4308/ 1.4301	1.4308/ 1.4301	1.4308/ 1.4301
Recommended temperature limits for trims	Trim code (K...)		Process temperature			
			°C	°F		
	1,2,3,7,8,9,10,12, 13,14,15,16,18		-200...+400	-330...+750		
	17,19 20		-100...+530 -100...+200	-150...+1000 -150...+390		

Flow coefficients (Kv)

Standard trims	Valve size	inch	½	¾	1	1 ½	2	3	4	6				
		mm	15	20	25	32	40	50	65	80	100	125	150	
Standard trims	Seat diameter	Full capacity	inch mm	0,63 16	0,63 16	0,87 22	1,1 28	1,38 35	1,69 43	2,2 56	2,75 70	3,46 88	5,51 140	5,51 140
		1st reduction	inch mm		0,63 16	0,63 16	0,87 22	1,1 28	1,38 35	1,69 43	2,2 56	2,75 70	3,46 88	5,51 140
		2nd reduction	inch mm			0,63 16	0,63 16	0,87 22	1,1 28	1,38 35	2,2 56	2,2 56		3,46 88
		3rd reduction	inch mm								2,2 56	2,2 56		
		4th reduction	inch mm									2,2 56		
	Characteristics	Trim	Kv Values											
	linear	Full capacity		4	6,3	10	16	25	40	63	100	160	250	360
		1st reduction			4	6,3	10	16	25	40	63	100	160	250
		2nd reduction				4	6,3	10	16	25	40	63		160
		3rd reduction									25	40		
	4th reduction										25			
Equal percentage	Full capacity		4	6,3	10	16	25	40	63	100	160	250	320	
	1st reduction			4	6,3	10	16	25	40	63	100	160	250	
	2nd reduction				4	6,3	10	16	25	40	63		160	
	3rd reduction									25	40			
	4th reduction										25			
Quick opening	Full capacity		4	7	12	20	31	46	75	112	170	300	360	
Low flow trims	Seat diameter	Full capacity	inch mm	0,39 10	0,39 10	0,39 10	Low flow trims available for ½", ¾", 1" DN 15/20/25 only							
		1st reduction	inch mm	0,2 5	0,2 5	0,2 5								
		2nd reduction	inch mm	0,12 3	0,12 3	0,12 3								
Characteristics	Trim	Kv Value												
Linear	Full capacity	2,5; 1,6; 1,0												
	1st reduction	0,63; 0,4; 0,25												
	2nd reduction	0,16; 0,10; 0,063; 0,04; 0,025; 0,016; 0,010												
Equal percentage	Full capacity	2,5; 1,6; 1,0												
	1st reduction	0,63; 0,4; 0,25												

Flow coefficients (Kv)

Low noise trim	Valve size	inch	1/2	3/4	1	1 1/2	2	3	4	6			
		mm	15	20	25	40	50	65	80	100	125	150	
Seat diameter		same as for standard trims											
	Characteristics	Trim	Kvs value										
NRE-1 Linear	Full capacity		6	9	14	21	29	52	70	95	214	270	
	1st reduction		4	6,3	9,5	15	22	37	53	76	149	214	
	2nd reduction			4	6,3	9,5	15	24	37	56		149	
	Equal percentage	Full capacity		6	9	14	21	29	52	70	95	214	253
	1st reduction		4	6,3	9,5	15	22	37	53	76	149	214	
	2nd reduction			4	6,3	9,5	15	24	37	56		149	
NRE-2 Linear	Full capacity		5,6	5,6	8	12,5	20	31,5	40	63	223	223	
	1st reduction				5,6	8	12,5	16	31,5	40	100	100	
	2nd reduction					5,6	8	12,5		31,5			
	Equal percentage	Full capacity		5,6	5,6	8	12,5	16	31,5	40	63	160	160
	1st reduction				5,6	8	12,5	16	31,5	40	100	100	
	2nd reduction					5,6	8	12,5		31,5			
NRE-21 Linear	Full capacity				5,4	7,8	12	18	30	38	62	160	160
	1st reduction				5,6	8	12,5	16	31,5	40	90	90	
	2nd reduction					5,6	8	12,5		31,5			
	Equal percentage	Full capacity			5,4	7,8	12	15,5	30	38	62	125	125
	1st reduction				5,6	8	12,5	16	31,5	40	80	80	
	2nd reduction					5,6	8	12,5		31,5			
NRE-2/NRE-21	Linear	0,1; 0,25; 0,63; 2,0					available for 1/2", 3/4", 1" DN 15/20/25 only						
Low flow	Equal percentage	0,25; 0,63; 2,0											
Valve factors F _L and X _T	Trim	Standard		NRE-1		NRE-2		NRE-21					
	Flow direction	FTO		FTC		FTO		FTC		FTO			
	F _L	Full capacity Kv		0,9		0,75		0,9		0,95		0,98	
		Reduced Kv		0,92		0,8		0,92		0,95		0,95	
	X _T	Full capacity Kv		0,72		0,55		0,72		0,74		0,75	
	Reduced Kv		0,72		0,55		0,72		0,74		0,75		

Flow coefficients (Cv)

Standard trims	Valve size	inch	1/2	3/4	1	1 1/2	2	3	4	6			
		mm	15	20	25	32	40	50	65	80	100	125	150
Seat diameter	Full capacity	inch	0,63	0,63	0,87	1,1	1,38	1,69	2,2	2,75	3,46	5,51	5,51
		mm	16	16	22	28	35	43	56	70	88	140	140
	1st reduction	inch		0,63	0,63	0,87	1,1	1,38	1,69	2,2	2,75	3,46	5,51
		mm		16	16	22	28	35	43	56	70	88	140
	2nd reduction	inch			0,63	0,63	0,87	1,1	1,38	2,2	2,2		3,46
		mm			16	16	22	28	35	56	56		88
3rd reduction	inch								2,2	2,2			
	mm								56	56			
4th reduction	inch									2,2			
	mm									56			
Characteristics	Trim	Cv value											
Linear	Full capacity		4,7	7,4	12	19	29	47	74	117	190	290	420
	1st reduction			4,7	7,4	12	19	29	47	74	117	190	290
	2nd reduction				4,7	7,4	12	19	29	47	74		190
	3rd reduction									29	49		
	4th reduction										29		
Equal percentage	Full capacity		4,7	7,4	12	19	29	47	74	117	190	290	370
	1st reduction			4,7	7,4	12	19	29	47	74	117	190	290
	2nd reduction				4,7	7,4	12	19	29	47	74		190
	3rd reduction									29	49		
	4th reduction										29		
Quick opening	Full capacity		4,7	8,2	14	23	36	54	88	131	200	350	420
Low flow trims	Seat diameter	Full capacity	inch	0,39	0,39	0,39	Low flow trims available for 1/2", 3/4", 1" DN 15/20/25 only						
			mm	10	10	10							
	1st reduction	inch	0,2	0,2	0,2								
	mm	5	5	5									
2nd reduction	inch	0,12	0,12	0,12									
	mm	3	3	3									
Characteristics	Trim	Cv value											
Linear	Full capacity	2,9; 1,9; 1,17											
	1st reduction	0,74; 0,47; 0,29											
	2nd reduction	0,19; 0,117; 0,074; 0,047; 0,029; 0,019 0,012											
Equal percentage	Full capacity	2,9; 1,9; 1,17											
	1st reduction	0,74; 0,47; 0,29											

Flow coefficients (Cv)

Low noise trims	Valve size	inch	1/2	3/4	1	3/2	2	3	4	6			
		mm	15	20	25	40	50	65	80	100	125	150	

Seat diameter													

	Characteristics	Trim	Cv Value										

NRE-1 Linear	Full capacity		7	10,5	16	24	34	60	80	110	250	315	
	1st reduction		4,7	7,3	11	17	25	43	61	88	174	250	
	2nd reduction			4,6	7,3	11	17	28	43	65		174	
Equal percentage	Full capacity		7	10,5	16	24	34	60	80	110	250	295	
	1st reduction		4,7	7,3	11	17	25	43	61	88	174	250	
	2nd reduction			4,6	7,3	11	17	28	43	65		174	
NRE-2 Linear	Full capacity		6,5	6,5	9,4	14,6	23	37	47	74	260	260	
	1st reduction				6,5	9,4	14,6	19	37	47	117	117	
	2nd reduction					6,5	9,4	14,6		37			
Equal percentage	Full capacity		6,5	6,5	9,4	14,6	19	37	47	74	190	190	
	1st reduction				6,5	9,4	14,6	19	37	47	117	117	
	2nd reduction					6,5	9,4	14,6		37			
NRE-21 Linear	Full capacity				6,3	9	14	21	35	44	72	190	190
	1st reduction				6,5	9,4	14,6	19	37	47	105	105	
	2nd reduction					6,5	9,4	14,6		37			
Equal percentage	Full capacity				6,3	9	14	18	35	44	72	146	146
	1st reduction				6,5	9,4	14,6	19	37	47	93	93	
	2nd reduction					6,5	9,4	14,6		37			

NRE-2/NRE-21	Linear		0,12; 0,29; 0,74; 1,2 ; 2,4				Available for 1/2", 3/4", 1" DN 15/20/25 only						
Low flow	equal percentage		0,29; 0,74; 1,2; 2,4										

Valve factors F _L and X _T	Trim		Standard		NRE-1		NRE-2		NRE-21				

	Flow direction		FTO	FTC	FTO	FTO	FTC	FTO					
	F _L	Full capacity Cv	0,9	0,75	0,9	0,95	0,95	0,98					
		reduced Cv	0,92	0,8	0,92	0,95	0,95	0,98					

X _T	Full capacity Cv	0,72	0,55	0,72	0,74	0,75	0,75						
	reduced Cv	0,72	0,55	0,72	0,74	0,75	0,75						

Dimensions and shipping weights

Dimensions (mm)	Valve size (mm)	Actuator size	A			C (Ø) metric thread	D (Ø)	H1 Std. Bon-net	H2 with Ex-tension	H4 with Elec. Act.	L ¹⁾	M ²⁾	X Clearance to remove act.
	15		130			M12x1	47,6	112	385	101	117	133	35
	20		150			M12x1	47,6	110,5	279,5	101	117	133	35
	25		160			M12x1	47,6	112	385	101	117	133	35
	32		180			M12x1	47,6	112	385	116	117	133	35
	40		200			M12x1	47,6	112	385	104	117	133	35
	50		230			M12x1	47,6	112	385	104	117	133	35
	65		290			M12x1 ⁴⁾	47,6	153	516	140	117 ¹⁾	133	35
	80		310			M16x1,5	47,6	148	497	140	134	133	35
	100		350			M16x1,5	47,6	148	497	142	134	133	35
	125	2112/2112T	400			M20x1,5		296	690		132,5		35
	125	2016/2016T	400			M20x1,5		280	673,5		149		80
	150	2112/2112T	480			M20x1,5		296	690		132,5		35
	150	2016/2016T	480			M20x1,5		280	673,5		149		80
Dimensions (inch)	Valve size (inch)	Actuator size	A ANSI 300 RF	A ANSI 300 RTJ	A ANSI 300 Small groove	C (Ø) metric Thread	D	H1 Std. Bon-net	H1 with Ex-tension	H4 with Elec. Act.	H4	M ²⁾	X Clearance to remove act
	½		7,5	7,92	7,87	M12x1	1,87	4,4	15,2	3,95	4,6	5,24	1,38
	¾		7,63	8,15	7,99	M12x1	1,87	4,4	15	3,95	4,6	5,24	1,38
	1		7,75	8,27	8,13	M12x1	1,87	4,4	15,2	3,95	4,6	5,24	1,38
	1 ½		9,25	9,76	9,63	M12x1	1,87	4,4	15,2	4,10	4,6	5,24	1,38
	2		10,5	11,18	10,89	M12x1	1,87	4,4	15,2	4,10	4,6	5,24	1,38
	3		12,5	13,12	12,87	M16x1,5	1,87	5,8	19,6	5,5	5,27	5,24	1,38
	4		14,5	15,12	14,86	M16x1,5	1,87	5,8	19,6	5,6	5,27	5,24	1,38
	6	2112/2112T	18,62	19,24	19	M20x1,5		11,65	27,16		5,2		1,38
	6	2016/2016T	18,62	19,24	19	M20x1,5		11,02	26,51		5,86		3,15
Shipping weight ³⁾ (Valve without actuator)	Valve size		Standard bonnet		Extension or bellows bonnet								
	mm	Zoll	kg	lbs	kg	lbs							
	15	½	7	16	13	29							
	20	¾	8	18	14	31							
	25	1	9	20	15	33							
	32		10	22	16	36							
	40	1 ½	13	29	20	44							
	50	2	16	36	23	51							
	65		25	55	34	75							
	80	3	29	64	39	86							
	100	4	39	86	56	124							
	125		69	153	106	235							
	150	6	75	167	115	255							

Notes:

¹⁾ Valve open (full stroke)

²⁾ Valve closed

³⁾ Dimensions and weights for actuators see specification sheet Actuator Series 2000

⁴⁾ For Actuator 2112 and 2112T

C (Ø) = M16x1,5; L(mm) = 134; L(Zoll) = 5,27

Ordering check list

Specification	Items to check
Service	On-off, throttling etc.
Line size DN-, PN	Valve size, pressure rating
Type of body	Globe
Body size	Specify nominal pipe size unless others are requested
Guiding	Top guided, top and seat guided
End connection	Specify raised face (RF), ring joint (RTJ), etc.
Pressure rating	Pressure vs. temperature
Body material	Specify as required
Bonnet type and packing	Specify as required
Lubricator	Indicate only when required
Trim type and characteristics	Standard, HFS, HFO, low noise, linear, equal percentage, on-off
Trim material	Specify as required
Required seat tightness	Specify leakage class according ANSI B 16.104
Bellows seal	Indicate only when required
Maximum allowable noise level	Please specify in metric values

See model selection guide

Valve type (Series 2000)
 Action (direct/reverse)
 Valve body size
 Body/nominal material
 End connection
 Single seat
 Trim type
 Lvs and characteristics
 Trim material
 Bonnet type
 Packing
 Actuator type/spring range
 Actuator size
 Heat jacket/flushing connection
 Pneumatic or electro-pneumatic positioner
 Pressure regulator/booster
 Stroke transm./limit switch
 Solenoid valve

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