



figura / figure

250

przylączy / ends
kształt / form

kołnierkowe / flange
prosty / straight



VARIMAX



STRAIGHT THROUGH GLOBE CONTROL VALVE



Electropneumatic Positioner
4...20 mA is Option

Features:

- Compact design
- Precision guided stem
- Burnished stem
- Tapered seat joint
- Positioning ratio 50:1
- Spring-loaded PTFE-V-ring packing unit
- Two-ply bellows seal
- Travel indicator

Applications:

- Cooling water
- Cooling brine
- Warm water
- Hot water
- Steam
- Gas
- Thermal oil

Figure	Nominal pressure	Material	Nominal diameter
250 E / 250 P	PN16	EN-JS1049	DN15-150
250 E / 250 P	PN25	1.0619+N	DN15-150
250 E / 250 P	PN40	Cast Steel	DN15-150
250 E / 250 P	PN40	1.4408	DN15-150

Other materials and versions on request.

Stem sealing

- Fig. 250:
- PTFE-V-ring unit -10°C up to +220°C
 - PTFE-packing -10°C up to +250°C
 - Pure graphite-packing -10°C up to +450°C

- Fig. 251:
- Stainless steel bellows seal with safety stuffing box -60°C up to +450°C

Plug design

standard: • Parabolic plug, metal seat

optional:

- Parabolic plug with PTFE soft seat (max. 200°C)
- V-port plug, metal seat
- Parabolic pressure balanced plug, metal seat,
Material of piston seal:
PTFE with stainless steel spring (max. 200°C)

Guiding

- Parabolic plug: Stem guiding
- V-port plug: Stem and port guiding

Flow characteristic

- Equal percentage or linear
(from Kvs 100 modified equal percentage)

Rangeability

- 50 : 1 on parabolic plug
- 30 : 1 on V-port plug

Shut off class (seat / plug leakage classes)

- Metal seat - Leakage class IV acc. to DIN EN 1349 or IEC 60534-4
- Soft seat Leakage - class VI acc. to DIN EN 1349 or IEC 60534-4



correspond to the pressure equipment directive 97/23/EC
marking CE for Dn≥32





figura / figure

250E

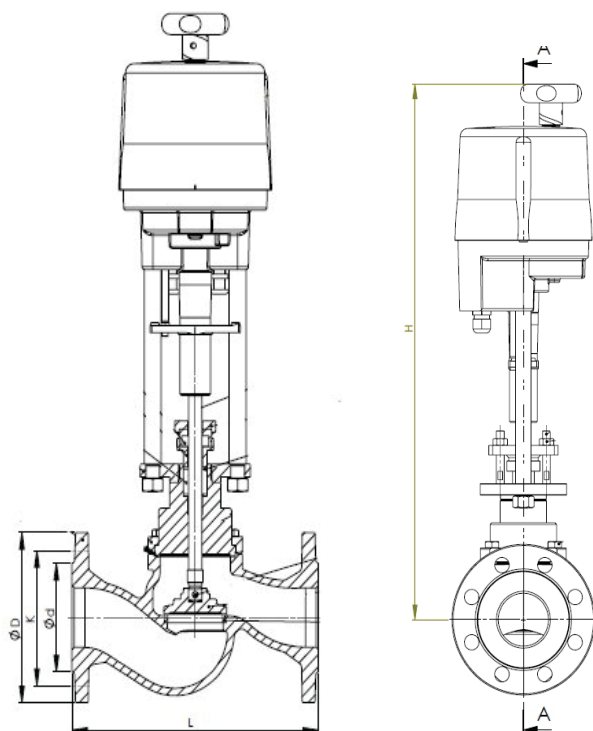
przylączy / ends
kształt / form

kolnierkowe / flange
prosty / straight



VARIMAX

Straight Through Control Valve PSL Electric Actuator DN 15-150



DIMENSIONS

DN	PN 16				PN 25				PN 16, 25	
	D	d	K	n x do	D	d	K	n x d	L	H
mm										
15	95	46	65	4x14	95	46	65	4x14	130	570
20	105	56	75	4x14	105	56	75	4x14	150	570
25	115	65	85	4x14	115	65	85	4x14	160	576
32	140	76	100	4x19	140	76	100	4x19	180	585
40	150	84	110	4x19	150	84	110	4x19	200	624
50	165	99	125	4x19	165	99	125	4x19	230	631
65	185	118	145	4x19	185	118	145	8x19	290	657
80	200	132	160	8x19	200	132	160	8x19	310	672
100	220	156	180	8x19	235	156	190	8x23	350	782
125	250	184	210	8x19	270	184	220	8x28	400	803
150	285	211	240	8x23	300	211	250	8x28	480	835

* Available Flanges ANSI Standard B16.5

MAX PERMISSIBLE CLOSING PRESSURES

on flow to open $P_2 = 0$

Actuator	DN										
	15	20	25	32	40	50	65	80	100	125	150
PSL202 2kN	25	24	17,9	11,2	8,9	5,5	3,6	2,5	1,7	1,1	0,8
PSL204 4,5kN	-	-	25	25	20	12,4	8,2	5,8	4	2,5	1,8
PSL208 8 Kn	-	-	-	-	25	22,1	14,6	10,3	7,1	4,4	3,2
PSL210 10 Kn	-	-	-	-	-	25	18,2	12,9	8,8	5,5	4
PSL314 14 Kn	-	-	-	-	-	-	25	18,1	12,4	7,8	5,7

*** Order code Fig. 250 E-50-16-PSL204

Size DN50 PN16

Actuator PSL204



figura / figure

250P

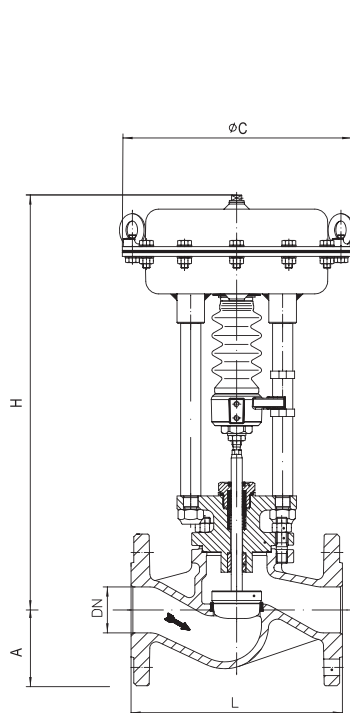
przyłącza / ends
kształt / form

kolnierzowe / flange
prosty / straight

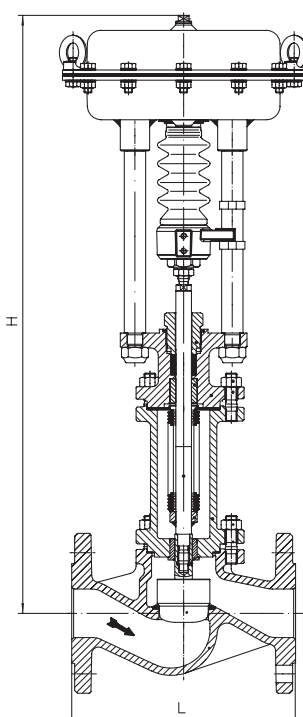


VARIMAX

Straight Through Control Valve AP Pneumatic Actuator DN 15-150



Packing Seal



Bellow Seal



DIMENSION

DN			15	20	25	32	40	50	65	80	100	125	150
L		(mm)	130	150	160	180	200	230	290	310	350	400	480
AP32	Ø A	(mm)	250										--
	Fig. 250P	H	(mm)	442	442	450	450	457	463	476	491	510	--
		PN16	(kg)	12	13	14	15	17	20	25	31	42	--
		PN25/40	(kg)	13	14	15	17	19	22	29	35	49	--
	Fig. 251P	H	(mm)	627	627	635	635	626	628	712	724	740	--
		PN16	(kg)	17	17	18	20	23	25	28	39	55	--
		PN25/40	(kg)	19	20	23	26	32	34	41	51	68	--
AP33	Ø A	(mm)	300										--
	Fig. 250P	H	(mm)	497	497	505	505	512	518	531	546	565	--
		PN16	(kg)	18	19	20	21	23	26	31	37	48	--
		PN25/40	(kg)	19	20	21	23	25	28	35	41	55	--
	Fig. 251P	H	(mm)	682	682	690	690	681	683	767	779	795	--
		PN16	(kg)	23	23	24	26	29	31	34	45	61	--
		PN25/40	(kg)	25	26	29	32	38	40	47	57	74	--
AP34	Ø A	(mm)	--	--	--	--	--	--	405				
	Fig. 250P	H	(mm)	--	--	--	--	--	666	681	700	739	779
		PN16	(kg)	--	--	--	--	--	61	67	78	104	126
		PN25/40	(kg)	--	--	--	--	--	65	71	85	116	148
	Fig. 251P	H	(mm)	--	--	--	--	--	902	914	930	1074	1105
		PN16	(kg)	--	--	--	--	--	64	75	91	110	143
		PN25/40	(kg)	--	--	--	--	--	77	87	104	123	168

*** Order code Fig. 250 P-50-16-AP32

Size DN50 PN16, Pnuumatic Actuator AP32

Air pressure supply

Spring Closes on air failure															
DN				15	20	25	32	40	50	65	80	100	125	150	
Seat-ø (mm)				21	21	27	31	41	51	66	81	101	126	151	
Kvs-values			Standard	4	6,3	10	16	25	40	63	100	160	250	400	
Travel (mm)				20						30			50		
Max. differential pressure drop (bar)			Parabolic plug		40	40	40	40	30	20	8	4	1.5	1	1
Actuator AP32	Spring range (bar)	0.2-1.0	Air supply pressure min. (bar)	1.2	2.3	2.3									
		0.4-1.2		1.4	15.4	15.4	8.7	6.2	3	1.6					
		0.8-2.4		2.7	40	40	24.8	18.6	10.2	6.3	3.2	1.9	1		
		1.5-2.5		2.8			40	40	22.7	14.4					
		2.0-3.3		3.6					31.6	20.2					
0.2-1.0		1.2		10.1	10.1	5.4	3.7	1.5							
0.4-1.2		1.4		31	31	18.3	13.6	7.3	4.4	2.1	1.1				
0.8-2.4		2.7		40	40	40	33.2	18.6	11.8	6.5	4.1	2.4			
1.5-3.0		3.1								14.3	9.3	5.8			
1.7-2.7		3.3					40	40	28.4						
2.0-4.0		4.5								19.9	12.9	8.2			
2.3-3.7		4.5							39.5						
0.2-1.0		1.2								2.1	1.2				
0.4-1.2		1.4								6.6	4.1	2.5	1.4		
0.8-2.4		2.7								15.5	10.1	6.3	3.9	2.6	
1.5-3.0		3.3											8.2	5.6	
2.0-4.0		4.5											11.3	7.8	
2.1-3.0		3.3								40	29.4	18.8			
2.4-3.6		4.5									33.9	21.7			

Spring Opens on air failure														
DN				15	20	25	32	40	50	65	80	100	125	150
Seat-ø (mm)				21	21	27	31	41	51	66	81	101	126	151
Kvs-values		Standard		4	6,3	10	16	25	40	63	100	160	250	400
Travel (mm)				20						30			50	
Max. differential pressure drop (bar)		Parabolic plug		40	40	40	40	30	20	8	4	1.5	1	1
Actuator AP32	Air supply pressure min. (bar)	1.4	15.4	15.4	8.7	6.2	3	1.6						
		2	40	40	32	24.8	13.7	8.6	4.6	2.8	1.6			
		3			40	40	31.6	20.2	11.6	7.5	4.6			
		4					40	31.8	18.6	12	7.6			
		5						40	25.6	16.7	10.6			
		6							32.6	21.4	13.6			
Actuator AP33		1.4	31	31	18.3	13.6	7.3	4.4	2.1	1.1				
		2	40	40	40	40	24.3	15.5	8.7	5.6	3.4			
		3					40	34	19.9	12.9	8.2			
		4						40	31	20.3	12.9			
		5							40	27.7	17.7			
		6								35	22.5			
Actuator AP34		1.4							6.6	4	2.5	1.4		
		2							20	13	8.2	5	3.5	
		3							40	27	17.8	11.3	7.8	
		4								40	27.5	17.5	12	
		5								34	21.7	23.7	16.5	
		6											30	20