



bælz 344

DESCRIPTION

The bælz 344 is an industrial 2-way control valve. The stainless steel housing allows utilization under demanding operating conditions.

TECHNICAL SPECIFICATIONS

Connection type: Flange EN 1092-2; EN 1092-1 Shapes D / E / F on request.

Plug type: parabolic plug / conical

Control characteristic: equal percentage, linear, OPEN / CLOSED

Working media: liquids, water, thermal oil, steam, gases

Leakage class (EN 1349)

metal-to-metal seal: 0.004% Kvs (better than class IV)

with Teflon plug: 0.001% Kvs (better than class VI)

Stroke (mm)

DN 80

22

DN 100, DN 125

22

DN 150

44

Spindle Ø (mm)

10

16

22

Options		Designation
Plug	Parabolic plug (standard)	bælz 344
	Balanced	bælz 344-EMF
	Cage plug	bælz 344-LK
	With V-rings in PFTE (max. temperature 240°C)	bælz 344-TK
Stem seal	V-rings in PFTE standard	bælz 344
	Cooling tube	bælz 344-K
	Cooling tube + bellows seal	bælz 344-K-SS
Additional options	V-shaped seal heating (for media at temperatures of - 10 to - 40°C) Pmax. 20 W; 12-24 V / 110-230 V AC/DC	bælz 85950...
	Construction without silicone	bælz 344-Silf
	Version for drinking water	bælz 344-twg

T max. (°C) / P max. (bar)		
Housing material	Stainless steel 1.4408	
Nominal pressure	PN 16	PN 40
bælz 344	240/12.8 ... 100/16	240/32.1 ... 100/40
bælz 344-EMF		
bælz 344-K	350/11.4 ... 100/16	350/28.5 ... 100/40
bælz 344-K-SS	350/11.4 ... 100/16	350/25 ... 100/40

DN	Kvs value (m³/h)			
	80	100	125	150
Standard	105	130	200	360
Balanced (EMF)				
Cage plug (LK)	on request			

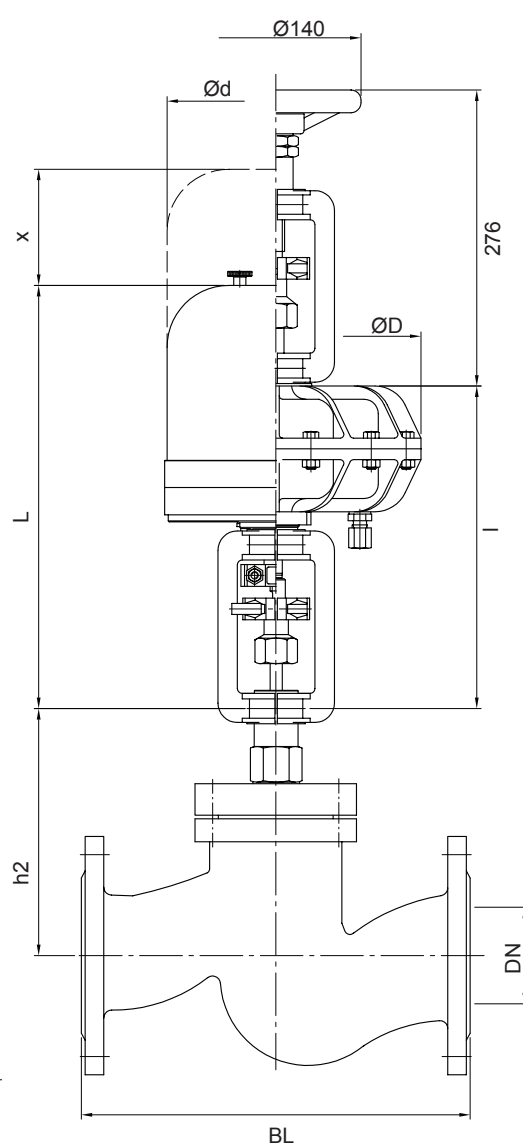
DN	Weight of the bælz 344 valves (kg)			
	80	100	125	150
PN16	28.7	39	57	90
PN40	29.7	41	60	93

Dimensions of the bælz 344 valves (mm)			
DN	BL	h1	h2
80	310	154	189
100	350	169	208
125	400	189	227
150	480	194	261

Dimensions of the bælz 373 actuators (mm)					
Designation	L	x	Ød	I	ØD
E 07	320	145	129		
E 45	560	150	175		
P 21				268	242
P 21-V6				304	242
P 22				322	242

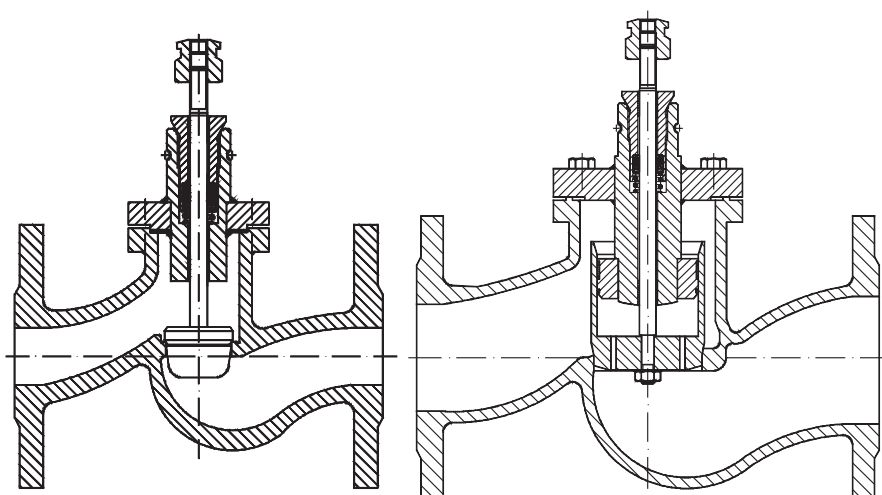
Electric actuators: bælz 373-E

Pneumatic actuators: bælz 373-P



bælz 344 dimensions

Sectional drawings of the bælz 344 plug



Parabolic plug
bælz 344

Balanced plug
bælz 344-EMF

Maximum differential pressure ΔP_{max} (bar) at which the actuator closes the valve completely

The differential pressures specified here are limited by the nominal pressure of the housings, if this is lower.

Electric actuators. Plug closes against the flow.

Actuator baelz 373-	Power (N)	DN (mm) / maximum differential pressure ΔPmax (bar)													
		15	20	25	32	40	50	65	80	100	125	150	200	250	300
E07- 20-	2000	40	40	32	20	12	8	4.8	3	2	1.2				
E65- 11-	1100	25	25	21	11	6.3	3.5	1.7	0.9	0.3					
E65- 20-	2000	40	40	32	20	12	8	4.8	3	2	1.2				
E45- 40-	4000	40	40	40	40	25	16	10	6.9	4.4	2.8	1.7			
E66- 80-	8000											3.1	1.6	0.9	
E66- 150-	15000											7.1	3.8	2.3	1.5
E88-ALS-25-	2500											0.5			
E88-ALS-75-	7500											3.1	1.6	0.9	
E88- 100-	10000							28	18	11	7.4	5	2.7	1.7	1.1
E88- 100-	13000							37	24	15	9.8	6.7	3.7	2.3	1.5
E88- 100-	16000							40	30	19	12	8.4	4.6	2.9	2
E88- 300-	30000											15.3	9	5.8	3.9
E88- 300-	35000											18.9	10.5	6.7	4.6
E88- 300-	40000											21.7	12.1	7.7	5.3

Pneumatic actuators (OPG) closed without compressed air. Plug closes against the flow.

Actuator bælz 373-	Power (N)	req. feed pressure (bar)	DN (mm) / maximum differential pressure ΔP_{max} (bar)													
			15	20	25	32	40	50	65	80	100	125	150	200	250	300
P21- 3	1020	1.2	29	29	16	9.9	6.3	4.6	2.7	1.8	1	0.6				
P21- 6	2040	3.0	40	40	35	21	13.5	8.9	5.2	3.4	2.2	1.4				
P21- 12	3390	6.0	40	40	40	36	23	14	8	5	3.5	2.1				
P21- 18	4030	6.0	40	40	40	40	27	18	10	7	4.5	2.8				
P21- V6	7590	6.0	40	40	40	40	40	34	20	13	8	5				
P22- 3	1846	3.0	40	40	34.5	18.8	11	6.5	3.4	2	1.1	0.5				
P22- 6	3692	6.0	40	40	40	40	25.2	15.3	8.5	5.3	3.2	1.9				
P31- 3	2480	1.2											1.1			
P31- 6	4960	3.0											2.4			
P31- 18	10560	6.0											5.3			
P32- 6	4402	3.0												0.8		
P32- 18	8115	6.0												1.8		
P41- 3	3765	1.2											2.4	1	0.6	0.4
P41- 6	7530	3.0											5	2	1.3	0.9
P41- V6	31920	6.0											21	10.5	6.5	4.5

Pneumatic actuators (OPO) open without compressed air. Plug closes against the flow.

Actuator bælz 373-	Power (N)	req. feed pressure (bar)	DN (mm) / maximum differential pressure ΔP_{max} (bar)													
			15	20	25	32	40	50	65	80	100	125	150	200	250	300
P21- 3	1020	1.2	7	7	4.5	2.8	1.8	1.1	0.6	0.4	-	-				
		3.0	40	40	40	40	31	19	12	8	5	3				
		6.0	40	40	40	40	40	40	30	20	12	8				
P21- 6	2040	3.0	40	40	35	21	14	8	5.3	3.5	2.2	1.4				
		6.0	40	40	40	40	40	39	24	16	10	6				
P31- 3	2480	1.2											0.6			
		3.0											6			
		6.0											14.8			
P31- 6	4960	3.0											3			
		6.0											12			
P41- 3	3765	1.2											1.2	0.7	0.4	0.3
		3.0											12	6.8	4.3	3
		6.0											30	17	11	7.5
P41- 6	7530	3.0												5	3	2
		6.0												15	10	6