



bælz 360

DESCRIPTION

The bælz 360 is an extremely robust 2-way control valve with steel housing and cage plug. It is designed to withstand large variations in quantity, pressure, temperature and humidity of steam and condensate.

TECHNICAL SPECIFICATIONS

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

Plug type: balanced piston plug with perforated cage, hardened and optimally guided

Control characteristic: equal percentage, linear, OPEN / CLOSED

Working fluids: liquids, gases, water, steam

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)*

* on request

Stroke (mm)		Spindle Ø (mm)
DN 32 - DN 50	22	10
DN 65 - DN 125	22 – 40	16
DN 150	44	22

Options		Designation
Plug	Balanced piston plug with perforated cage	bælz 360-EM-C
	Balanced piston plug with double perforated cage for higher pressure drops	bælz 360-EM-CC
Stem seal	V-rings in PTFE standard	bælz 360-EM-C bælz 360-EM-CC
	Cooling tube	bælz 360-K-EM-C bælz 360-K-EM-CC
Additional options	V-shaped seal heating (for fluids at temperatures of - 10 to - 40°C) Pmax. 20 W; 12-24 V / 110-230 V AC/DC	bælz 85950...

T max. (°C) / P max. (bar)	
Housing material	Cast steel GP240GH - 1.0619
Nominal pressure	PN 40
bælz 360-EM-C bælz 360-EM-CC	250 / 30.4 ... 50 / 40
bælz 360-K-EM-C bælz 360-K-EM-CC	315 / 27 ... 50 / 40

Kvs value (m³/h)										
DN	32	40	50	65	80	100	125	150	Stroke	Control characteristic
baelz EM-C baelz EM-CC	13	25	36	62	71	100	135		22	OPEN / CLOSED
				68	91	135	187		40	
								304	44	
	7	11	18	24	30	38	51		22	Equal percentage
				45	52	69	80		40	
								110	44	
	11,5	22	32	55	71	86	100		22	Linear
				63	80	112	138		40	
								196	44	

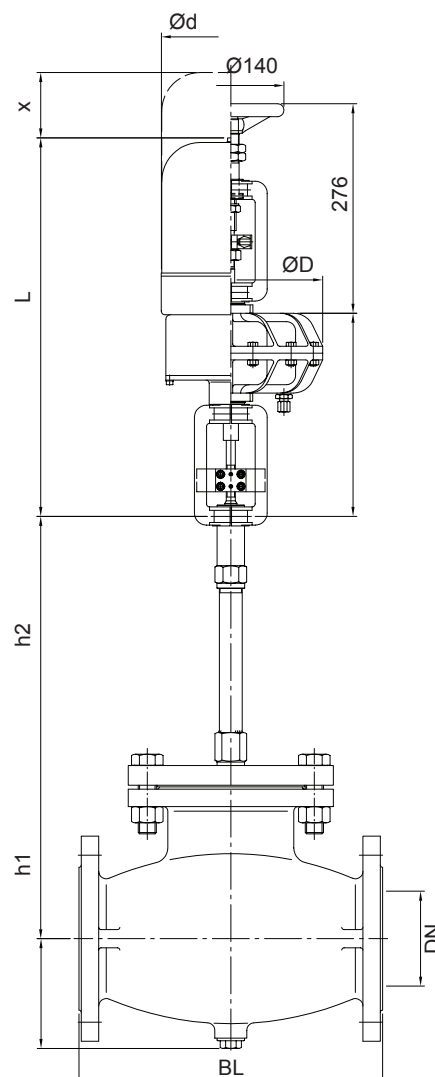
Weight of the baelz 360 valves (kg)							
DN	40	50	65	80	100	125	150
baelz 360 EM-C baelz 360 EM-CC	15.3	19.6	31	36.7	51	71	
			31	36.7	51	71	
							120

Dimensions of the bælz 360 valves			
DN	BL / PN40	h1	h2 / PN40
360-EM-C/CC			
40	200	100	177
50	230	80	230
65	290	100	242
80	310	110	249
100	350	125	269
125	400	145	321
150	480	194	330
360-K-EM-C/CC			
40	200	100	467
50	230	80	520
65	290	100	532
80	310	110	539
100	350	125	559
125	400	145	611
150	480	194	620

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

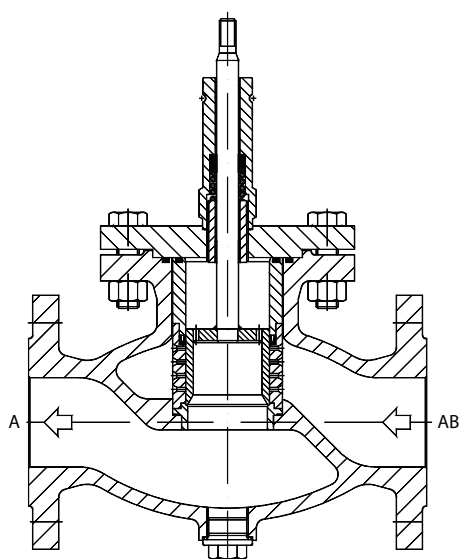
Electric actuators: bælz 373-E

Pneumatic actuators: bælz 373-P

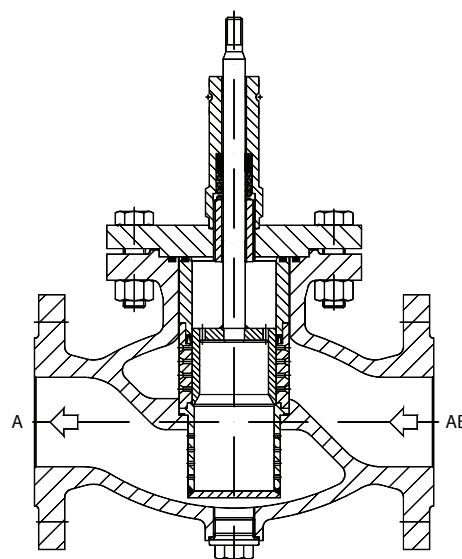


Dimensions 360-EM-C-K 40-125

Sectional drawings of the bælz 360 plug



Piston plug and cage
bælz 360-EM-C



bælz 360-EM-CC with additional
perforated cage

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. Balanced 2-way valves for liquids and steam Plug closes in direction of flow.

Actuator bælz 373-	Power (N)	DN (mm) / maximum differential pressure ΔP_{max} (bar)													
		15	20	25	32	40	50	65	80	100	125	150	200	250	300
E07- 20-	2000					146	55	67	61	52	42				
E65- 11-	1100					53	18	17	11	2.6					
E65- 20-	2000					146	55	67	61	52	42				
E45- 40-	4000					160	129	160	160	151	142	68	58		
E66- 80-	8000											160	150		
E66- 150-	15000											160	160		
E63- 660-	6672											138			
E88-ALS-75-	7500											160	150		

Pneumatic actuators (OPG) closed without compressed air. Balanced 2-way valves for liquids and steam Plug closes in direction of 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					55	19.3	18.6	12.9	3.6					
P21- 6	2040	3.0					150	57	69	63	54	44				
P22- 3	1846	3.0					132	50	59	54	44	35				
P22- 6	3692	6.0					160	118	151	146	136	127				
P31- 3	2480	3.0											28.4			
P31- 6	4960	3.0											93			
P32- 6	4402	3.0												68		
P41- 3	3765	1.2											62	52		
P41- 6	7530	3.0											160	151		