



baelz 360

DESCRIPTION

The baelz 360 is an extremely robust, balanced 2-way control valve with steel housing and a guided balancing piston plug in a perforated sleeve. 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: balancing piston plug with perforated sleeve, hardened and precision guided

Control characteristic: equal percentage / linear

Working fluids: liquids, gases, water, steam

Leakage class (EN 1349)
metal-to-metal seal: 0.004% Kvs (better than class IV)
with PTFE plug: 0.001 % Kvs (better than class VI)*

*on request

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

*Stroke 12 / 40 mm on request

Options		Designation
Plug	Balanced piston plug with perforated sleeve (standard)	baelz 360-EM-C...
	Balanced piston plug with perforated cage for higher pressure drops	MP360-CC...
Spindle seal	V-rings in PFTE (standard)	
	Cooling tube	MP360-K
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	baelz 85950...

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

DN	Kvs value* (m³/h)									Control characteristic
	25**	32	40	50	65	80	100	125	150	
baelz EM-C	3,5	7	11	18	45	56	62	80	110	Equal percentage
baelz EM-CC	8,0	11,5	20	30	55	90	108	138	200	Linear

Notes: *The baelz 360 is configured to customer requirements, the Kvs values above should therefore be regarded as guideline values.
**Nominal diameter DN 25 with a stroke of 12 mm available on request.

Approximate weights of the baelz 360 valves (kg)

DN	40	50	65	80	100	125	150
baelz 360 EM-C	15.3	19.6	31	36.7	51	71	
baelz 360 EM-CC			31	36.7	51	71	
							120

Dimensions of the baelz 360 valves

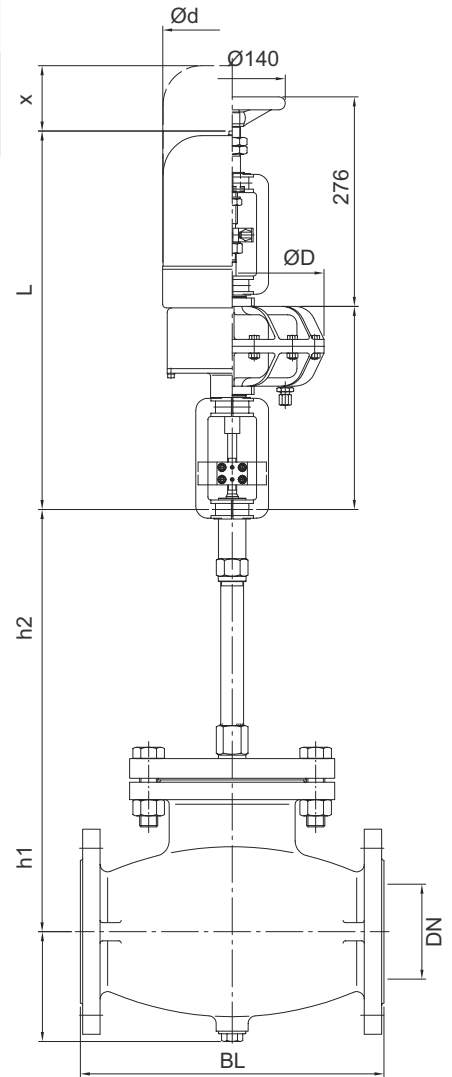
DN	BL / PN40	h1	h2 / PN40
360-EM-C/CC			
40	200	100	177
50	230	80	225
65	290	100	242
80	310	110	249
100	350	125	269
125	400	145	321
150	480	194	330
360-K-EM-C/CC			
40	200	100	467
50	230	80	520
65	290	100	532
80	310	110	539
100	350	125	559
125	400	145	611
150	480	194	620

Dimensions of the baelz 373 actuators (mm)

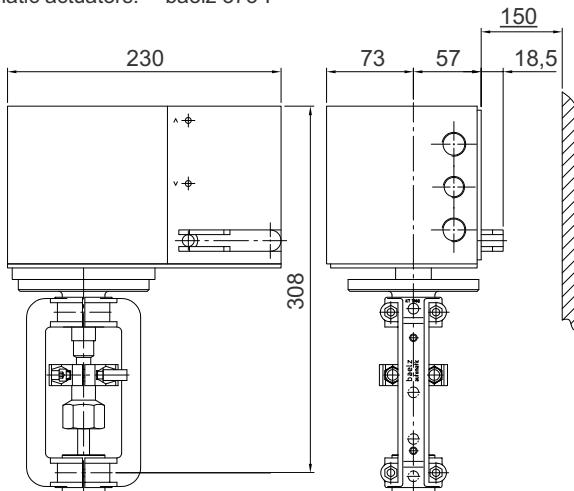
Designation	L	x	Ød	l	ØD
E07	320	145	129		
E07-OSX	354	145	129		
E45	560	150	175		
E65	see dimensional drawing below				
P 21				268	242
P 21-V6				304	242
P 22				322	242

Electric actuators: baelz 373-E

Pneumatic actuators: baelz 373-P



Dimensions 360-EM-C-K 40-125



Dimensions of the baelz 373-E65 actuator

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.

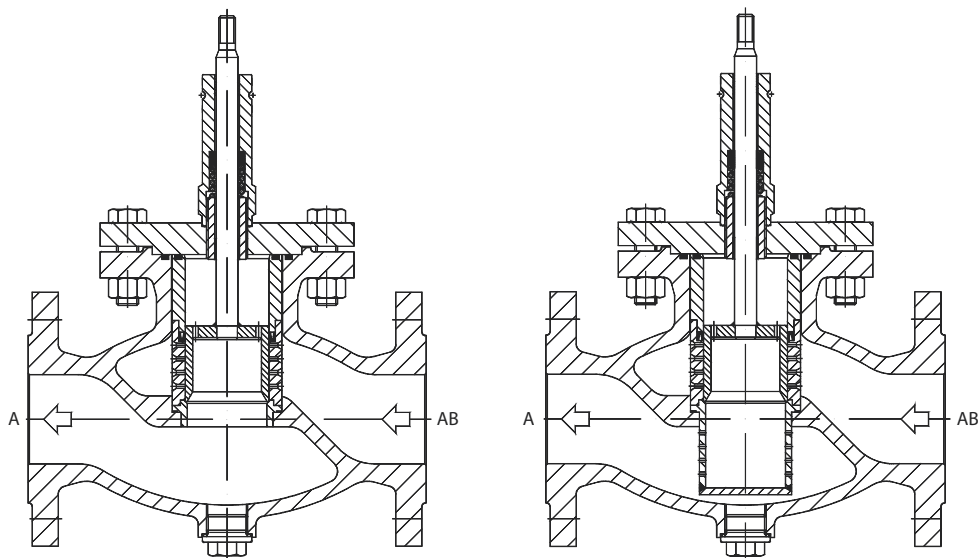
Electric actuators. Balanced 2-way valves for liquids and steam Plug closes in direction of flow.

Actuator baelz 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- OSX-	700					-	-	-	-							
E07- 20-	2000					146	55	67	61	52	42					
E65- 11-	1100					62	22	22	17	7.6						
E65- 20-	2000					146	55	67	61	52	42					
E45- 40-	4000					160	129	160	160	151	142	68	58			
E63 44-	4400											78	68			
E66- 80-	8000											160	160			
E64 140-	14000											160	160			
E66- 150-	15000											160	160			

Pneumatic actuators (OPG) closed without compressed air. Balanced 2-way valves for liquids and steam Plug closes in direction of flow.

Actuator baelz 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		

Sectional drawings of the baelz 360 plug



Piston plug and cage
baelz 360-EM-C

baelz 360-EM-CC with additional
perforated cage