



baelz 358-K / 359-K

DESCRIPTION

The baelz 358-K and 359-K control valves are 2-way valves with cooling tube for systems with high temperatures and pressures.

TECHNICAL SPECIFICATIONS

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

Plug type: parabolic plug / conical, cage plug

Control characteristic: equal percentage, linear, OPEN / CLOSED

Stroke - 16 mm / 22 mm

Working media: liquids, gases, water, steam

Leakage class (EN 1349)

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

Housing material baelz 358-K, baelz 359-K

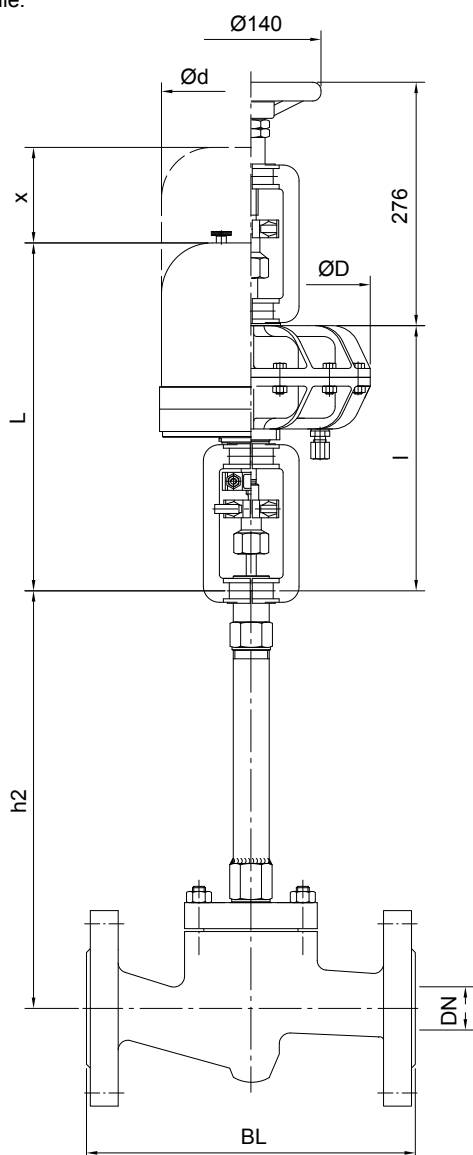
Nominal width	DN 15...DN 25	from DN 32
Housing material 358-K	Steel 13CrMo4-5 - 1.7335	Cast steel G17CrMo5-5 - 1.7357
Housing material 359-K	Steel P250GH - 1.0460	GP240GH+N - 1.0619+N

T max. (°C) / P max. (bar)

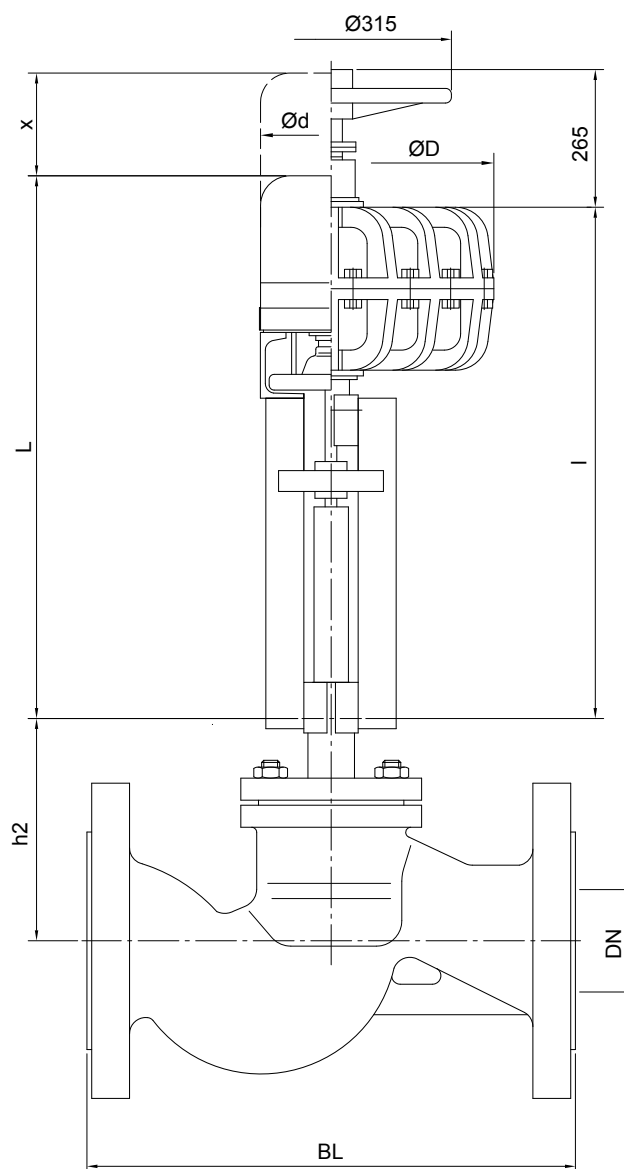
Nominal pressure	PN 63	PN 100	PN 160
baelz 358-K	350 / 60	350 / 95.2	350 / 152.3
	300 / 63	300 / 100	300 / 160
baelz 359-K	350 / 40.5	350 / 64.2	350 / 102.8
	240 / 48.9	240 / 77.5	240 / 124.1
	50 / 63	50 / 100	50 / 160

Dimensions and weight baelz 358-K and baelz 359-K, DN 20 - DN 125						
DN	BL	h2	Weight			Metric flow factor (Kvs)
			PN 63	PN 100	PN 160	
	(mm)		(kg)			(m³/h)
15	210	370			8.5	3.8
20	230	370			10	6.5
25	230	380			11.5	9.3
32	260	384			15.5	14
40	260	389			20.5	23
50	300	409	29 / 31*	29 / 31*	29 / 31*	40
65	340	220	38 / 40*	43 / 45*	43 / 45*	63
80	380	230	52*	58*	58*	105
100	430	255	62*	75*	75*	130
125	500	305	100*	104*	110*	200

* with Ø 22 mm spindle (358-K-22 and 359-K-22). Otherwise with Ø 10 mm spindle.



Dimensions baelz 358-K / 359-K, DN 20 - DN 50

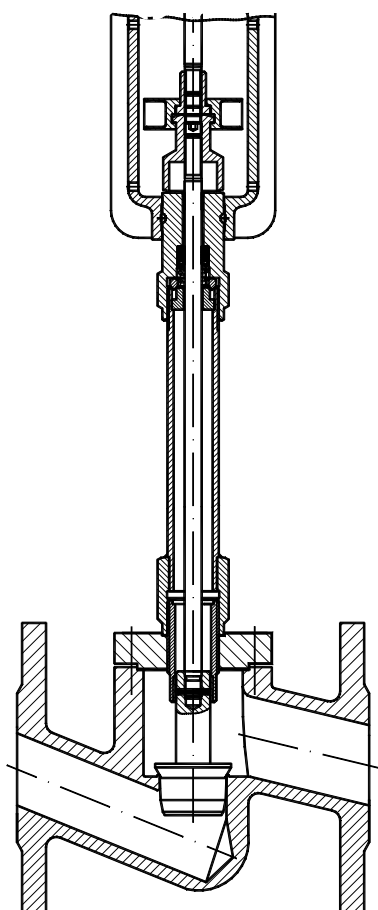


Dimensions baelz 358-K / 359-K, DN 65 - DN 125

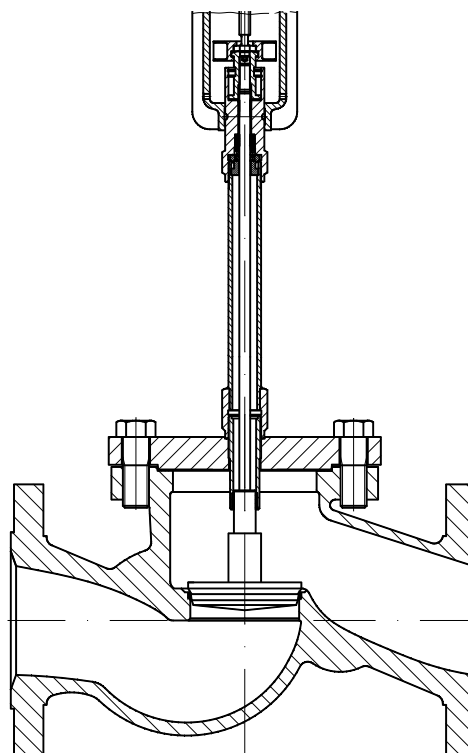
Dimensions of the bælz 373 actuators (mm)					
Designation	L	x	Ød	I	ØD
E07	317	145	129		
E11	499	180	183		
P21				268	242
P21-V6				304	242
P22				322	242
P31				989	384
P32				1005	384
P41				1042	506
P41-V6				1167	506

Electric actuators: bælz 373-E

Pneumatic actuators: bælz 373-P



Parabolic plug
bælz 358-K / 359-K, DN 20 - DN 50



Parabolic plug
bælz 358-K / 359-K, DN 65 - DN 125

Sectional drawings of the bælz 358-K, bælz 359-K plugs

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. 2-way valves for high pressures. Plug closes against the 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	92	41	32	20	11.4									
E65- 20-	2000	92	41	32	20	11.4									
E45- 40-	4000	160	89	68	44	25.7	16.1								
E66- 80-	8000	160	160	132	85	51	32	18.7							
E66- 150-	15000	160	160	160	160	104	66	40							
E88-ALS-75-	7500	160	160	132	85	51	32	18.7							
E88- 100-	10000	160	160	160	115	68	43	25.4							
E88- 130-	13000	160	160	160	151	90	57	33.6							
E88- 160-	16000	160	160	160	160	111	71	41.7							

Pneumatic actuators (OPG) closed without compressed air. 2-way valves for high pressures.

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- 6	2040	3.0	95	43	32.6	20.4	11.7									
P21- 12	3390	6.0	160	75	57	36.5	21.4	13.3								
P21- 18	4030	6.0	160	90	69	44	25.9	16.2								
P21- V6	7590	6.0	160	160	134	86	51	32.5	18.9							
P22- 6	3692	6.0	160	82	63	40	23.5	14.7								
P31- 6	4960	3.0	160	112	86	55	32.6	20.5	11.8							
P31- 18	10560	6.0	160	160	160	122	73	46	27							