



baelz 353 / 354

DESCRIPTION

baelz 353 and baelz 354 are industrial 3-way control valves. 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.
Type of plug: parabolic plug with slot
Control characteristic: linear
Working media: liquids, water, thermal oil, steam, gases

Leakage class (EN 1349)	
Straight way (A-AB)	0.004 % Kvs (better than class IV)
Angle way (B-AB)	0.004 % Kvs (better than class IV)

Stroke (mm)		Spindle Ø (mm)
baelz 353	DN 15-25	12
baelz 354	DN 32-125*	22

* DN 150 on request

Options		Designation example
Plug	Parabolic plug with slot	baelz 353 / baelz 354
Stem seal	V-rings in PFTE (standard)	baelz 353 / baelz 354
Additional options	Cooling tube	baelz 353-K / baelz 354-K
	Version suitable for drinking water	baelz 353-twq / baelz 354-twq
	Stainless steel housing 1.4313 (DN 25 and DN 50)	baelz 353 / baelz 354

T max. (°C) / P max. (bar)			
Baelz Type	baelz 353	baelz 354	
Housing material	X6CrNiMoTi17-12-2 - 1.4571	GX5CrNiMo19-11 - 1.4408	
Nominal pressure	PN 16 / 25 / 40	PN 16	PN 25 / PN 40
Standard model	240 / 35.7 ... 100 / 40	240 / 12.8 ... 100 / 16	240 / 32.1 ... 100 / 40
with cooling tube	350 / 32.1 ... 100 / 40	350 / 11.4 ... 100 / 16	350 / 28.5 ... 100 / 40

baelz 353/354 Kvs value and weight																
Baelz Type	baelz 353						baelz 354									
DN	15	20	25	32	40	50	65	80	100	125	150	65	80	100	125	150*
PN	PN 16 / 25 / 40						PN 16					PN 25 / PN 40				
Kvs (m³/h)	5.6 3 2	6.3	9	16	25	36	63	105	130	200	360	63	105	130	200	360
Weight (kg)	5.5	6.1	6.6	12.4	15.3	19.8	29.6	35.8	48.8	70.6	108	29.6	36.8	50.8	73.6	111

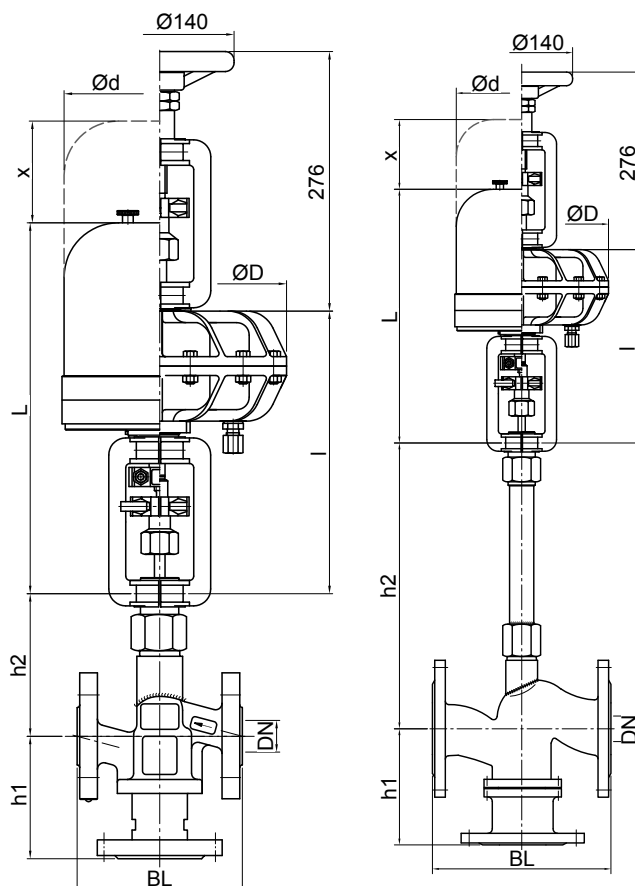
* DN 150 on request

bælz 353 / 354 dimensions (mm)					
Bælz Type	DN	BL	h1	h2	
				353 354	353-K 354-K
bælz 353	15	130	89	105	268
	20	150	89	105	268
	25	160	89	105	268
bælz 354	32	180	160	145	381
	40	200	160	145	381
	50	230	170	150	386
	65	290	180	154	390
	80	310	190	157	393
	100	350	200	165	401
	125	400	220	175	411

bælz actuators dimensions (mm)					
Designation	L	x	Ød	l	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

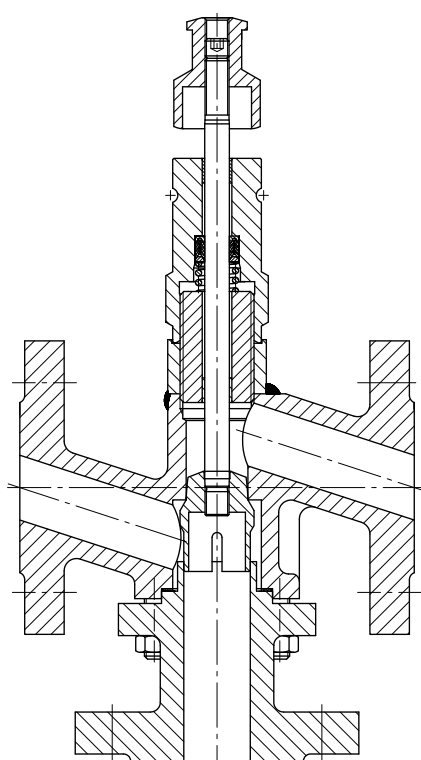
Pneumatic actuators: bælz 373-P



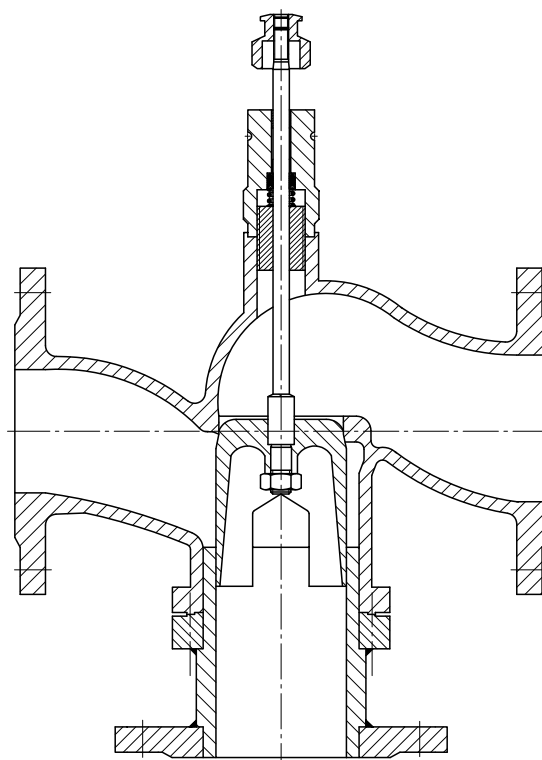
bælz 353 DN 15-25
bælz 354 DN 32-125

bælz 353-K DN 15-25
bælz 354-K DN 32-125

Sectional drawings of the bælz plug 353 / 354



Parabolic plug with slot
bælz 353 DN 15-25



Parabolic plug with slot
bælz 354 DN 32-125

Maximum differential pressure $\Delta P_{\max}$ (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. 3-way valves as mixing valves. Plug closes against the flow.

Actuator baelz 373-	Power (N)	DN (mm) / maximum differential pressure $\Delta P_{\max}$ (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. 3-way valves as mixing valves. Plug closes against the flow.

Actuator baelz 373-	Power (N)	req. feed pressure (bar)	DN (mm) / maximum differential pressure $\Delta P_{\max}$ (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	1.7	1.1	0.7	0.4	0.3	0.2				
P21- 6	2040	3.0	40	40	33	20	13	8	5	3.3	2.1	1.3				
P21- 12	3390	6.0	40	40	40	35	22	14	8.5	5.6	3.6	2.3				
P21- 18	4030	6.0	40	40	40	40	27	17	10	7	4.3	2.7				
P21- V6	7590	6.0	40	40	29	18	11.5	7	4.3	2.8	1.8	1.2				
P31- 3	2480	1.2											0.6			
P31- 6	4960	3.0											2.3			
P31- 18	10560	6.0											5			
P41- 3	3765	1.2											2.4	1	0.6	0.4
P41- 6	7530	3.0											4.8	2	1.3	0.9
P41- V6	31920	6.0											8.2	3.5	2.3	1.6