

baelz 365

DESCRIPTION

The baelz 365 ANSI 300 valve is a flanged and pressure rated 2-way control valve in accordance with US ANSI / ASME standards.

TECHNICAL SPECIFICATIONS

Connection type: ASME / ANSI B16.5 flange

Plug type: parabolic plug

Control characteristic: equal percentage

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

Leakage class (EN 1349)

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

Options		Designation example
Plug	Parabolic plug (standard)	baelz 365
	V-rings in PFTE standard	baelz 365
	Cooling tube	baelz 365-K
	Cooling tube + double-wall stainless steel bellows and safety gland	baelz 365-K-SS
	Double cooling tube (special construction)	baelz 365-KK

T max. / P max. baelz 365 ANSI 300

Housing material		1.0619 (1.0432) / SA216WCB (SA105)									
Temperature (°F)		-20...100	200	300	400	450	500	550	600	650	750
baelz 365	- P max. (psi)	740	680	655	635	620	-	-	-	-	-
baelz 365-K	- P max. (psi)	740	680	655	635	620	605	587	570	550	-
baelz 365-KK	- P max. (psi)	740	680	655	635	620	605	587	570	550	505
baelz 365-K-SS	- P max. (psi)	362	362	362	362	362	362	362	362	362	-
baelz 365-KK-SS	- P max. (psi)	362	362	362	362	362	362	362	362	362	362
Temperature (°C)		-29...38	93	149	204	232	260	288	316	343	400
baelz 365	- P max. (bar)	51.1	46.9	45.1	43.8	42.7	-	-	-	-	-
baelz 365-K	- P max. (bar)	51.1	46.9	45.1	43.8	42.7	41.7	40.5	39.3	37.9	-
baelz 365-KK	- P max. (bar)	51.1	46.9	45.1	43.8	42.7	41.7	40.5	39.3	37.9	34.7
baelz 365-K-SS	- P max. (bar)	25	25	25	25	25	25	25	25	25	-
baelz 365-KK-SS	- P max. (bar)	25	25	25	25	25	25	25	25	25	25

baelz 365 ANSI 300 valve stroke, seat diameter and Kvs values

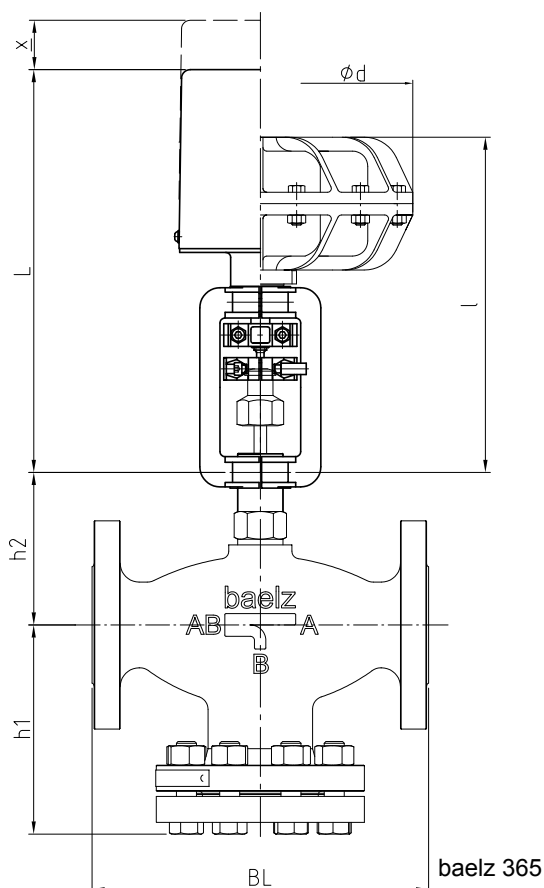
Nominal width	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"
Stroke (")	0.47	0.47	0.47	0.87	0.87	0.87	0.87	0.87	1.73	2.6	2.6
Seat Ø (")	0.87	0.87	0.98	1.57	1.97	2.55	3.15	3.93	5.9	7.87	9.84
Cv (US GPM)	6.5	7.3	10.5	29.0	41.8	73.1	121.8	150.8	417.6	672.8	1113.6
Nominal width (mm)	15	20	25	40	50	65	80	100	150	200	250
Stroke (mm)	12	12	12	22	22	22	22	22	44	66	66
Seat Ø (mm)	22	22	25	40	50	65	80	100	150	200	250
Kvs value (m³/h)	5.6	6.3	9	25	36	63	105	130	360	580	960

Dimensions of the bælz actuators

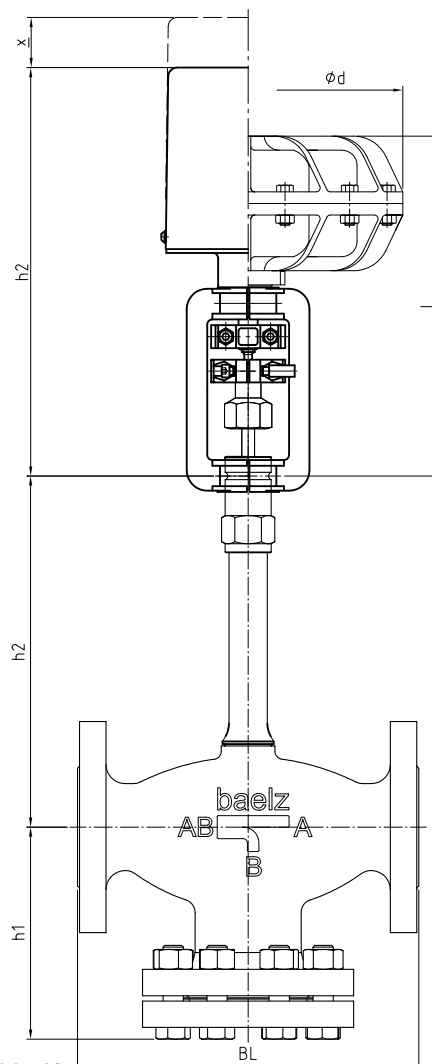
Actuator	L		L 365-K		x		Ød		l		l 365-K		ØD	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
E 45	20.6	522	39.5	1002	5.9	150	6.81	173						
E 66	24.8	630	43.7	1109	7.9	200	7.4	188						
P 31									20	509	38.9	989	15.1	384
P 32									20.7	525	39.6	1005	15.1	384
P 41									22.1	562	41	1042	19.9	506
P 41-V6									27.1	687	45.9	1167	19.9	506

bælz 365 dimensions and weights

DN		BL		h1		h2		h2 365-K		365		365-K		365-K-SS	
in.	mm	inches	mm	inches	mm	inches	mm	inches	mm	lbs	kg	lbs	kg	lbs	kg
½"	15	7.48	190	3.75	95	4.2	105	9.1	231	11.8	5.4	14.7	6.8	15.4	7.0
¾"	20	7.63	194	3.81	97	4.2	105	9.1	231	13.9	6.3	16.9	7.6	17.5	7.9
1"	25	7.75	197	3.875	98.5	4.2	105	9.1	231	19	8.6	21.8	9.9	22.5	10.2
1½"	40	9.25	235	4.625	117.5	4.49	114	11.06	281	21	9.5	25.6	11.6	26.1	11.8
2"	50	10.51	267	5.25	133.5	4.8	121	10.83	275	32.8	14.9	39.7	18.0	40.1	18.2
2½"	65	11.5	292	5.75	146	2.67	144	10.6	269	50.6	23	53.3	24.2	54.7	24.8
3"	80	12.52	318	6.25	159	6.06	154	10.6	269	64	29	67.1	30.4	69.7	31.6
4"	100	14.5	368	7.25	184	6.65	169	10.32	262	108	49.2	112	50.7	115	51.9
6"	150	17.62	473	9.31	236.5	9.8	250	9.8	250	207	94	231	105	241	110
8"	200	22.36	568	11.19	284	10.6	270	10.6	270	425	193	535	243	544	247
10"	250	27.87	708	13.94	354	12.6	320	12.6	320	649	295	760	345	771	350



bælz 365



bælz 365-K

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 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	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