



baelz 335

DESCRIPTION

The baelz 335 is a 3-way control valve with red brass housing for heating, ventilation and air conditioning systems.

TECHNICAL SPECIFICATIONS

Connection type: external thread / for welding
 Plug type: standard control plug with slot (lantern shape)
 Control characteristic: linear
 Stroke: 12 mm

Additional options: union nut, silicone seal
 Working media: liquids, water

Leakage class (EN 1349)

Straight way (A-AB): 0.004 % Kvs (better than class IV)

Angle way (B-AB): 2 % Kvs (class I)

Options		Designation example
Plug	Stainless steel 1. 4571 Standard	baelz 335-1
Stem seal	V-rings in PFTE standard	baelz 335-1
Connection	Brass union nut + steel nozzle for welding	baelz 335-1
	Brass union nut + weld-on stainless steel sockets	baelz 335-ASE
	Brass union nut + threaded brass sockets	baelz 335-GT

T max. (°C) / P max. (bar)	
Housing material	Red brass CC491K - CuSn5Zn5Pb5
Nominal pressure	PN 16 / 25
baelz 335-1	140 / 25... -10 / 22
baelz 335-GT	
baelz 335-ASE	

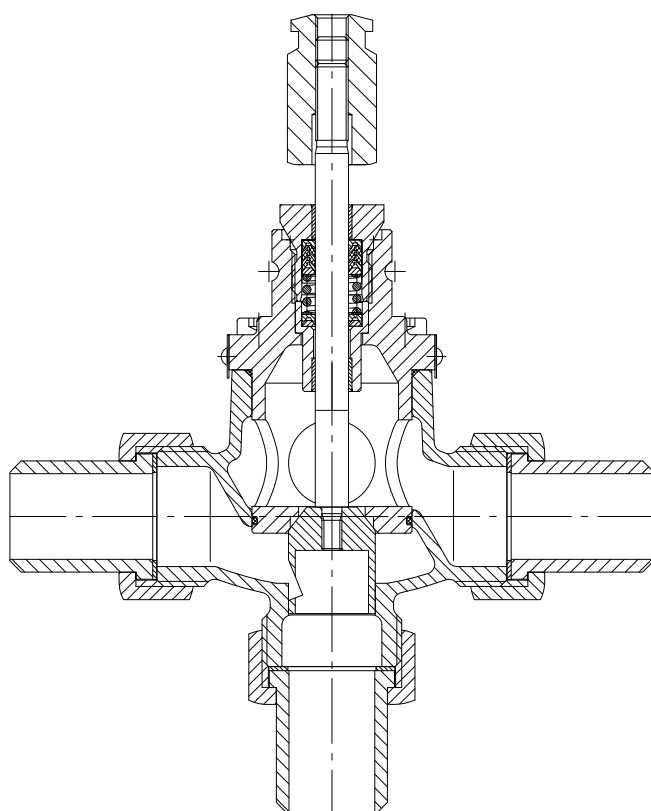
Actuators	Identification
Electric linear actuator	baelz 373-E
Pneumatic diaphragm actuator	baelz 373-P

Kvs value (m³/h)					
DN	1/2"	3/4"	1"	1 1/4"	1 1/2"
Kvs	3.5	5	9	16	22

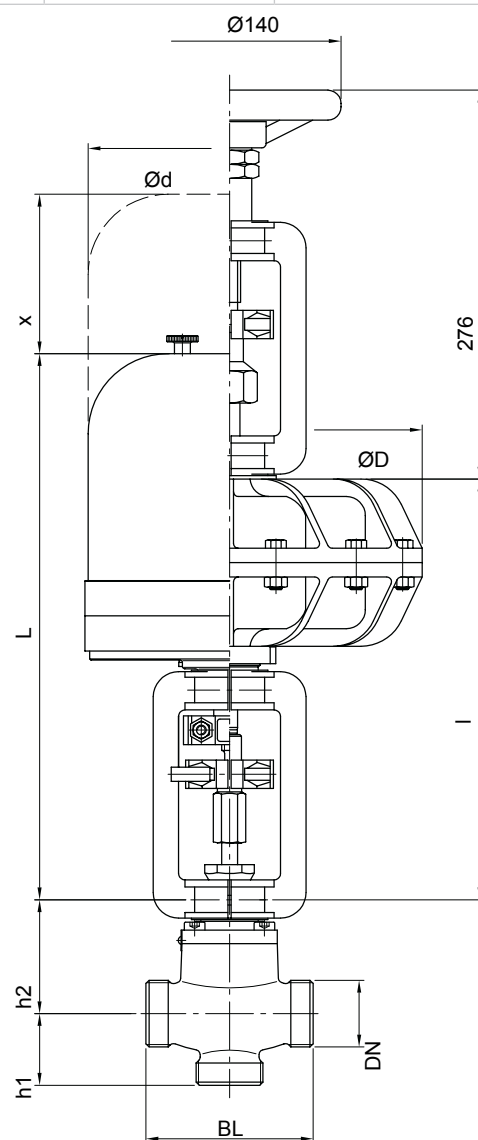
bælz 335 dimensions and weight without actuator (mm)					
DN		BL	h1	h2	Weight
		(mm)			(kg)
1/2"	15	92	33	72	1.5
3/4"	20	95	40	72	1.7
1"	25	105	45	72	1.8
1 1/4"	32	105	53	72	2
1 1/2"	40	114	57	72	2.5

Dimensions of the bælz actuators (mm)					
Designation	L	x	Ød	I	ØD
E 07	320	145	129		
E 45	560	150	175		
P 21				268	242

Sectional drawing of the bælz 335 plug



Standard control plug with slot
(lantern shape)
bælz 335



bælz 335 dimensions

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. 3-way valves as mixing valves. 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. 3-way valves as mixing valves. 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	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

Pneumatic actuators. 3-way valves as diverting valves. 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
all		1.2 - 6.0	Deploy all diverting valves only up to 0.6 bar differential pressure. If a diverting valve with > 0.6 bar is required, valve with > 0.6 bar is required, a damping device must be provided on the actuator.													