



## 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 option: silicone seal  
 Working fluids: water, hot water, steam

### 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
<b>Plug</b>	Stainless steel 1. 4571 standard	baelz 335-1
<b>Spindle seal</b>	V-rings in PTFE standard	baelz 335-1
<b>Connection</b>	Brass union nut + steel nozzle for welding (standard)	baelz 335-1
	Brass union nut + weld-on stainless steel sockets	MP335-ASE...
	Brass union nut + threaded brass sockets	MP335-GT...

T max. (°C) / P max. (bar)	
<b>Housing material</b>	Red brass CC491K - CuSn5Zn5Pb5
<b>Nominal pressure</b>	<b>PN 16 / 25</b>
<b>baelz 335-1</b>	
<b>baelz 335-GT</b>	Water: 150 / 25
<b>baelz 335-ASE</b>	Steam 150 / 10

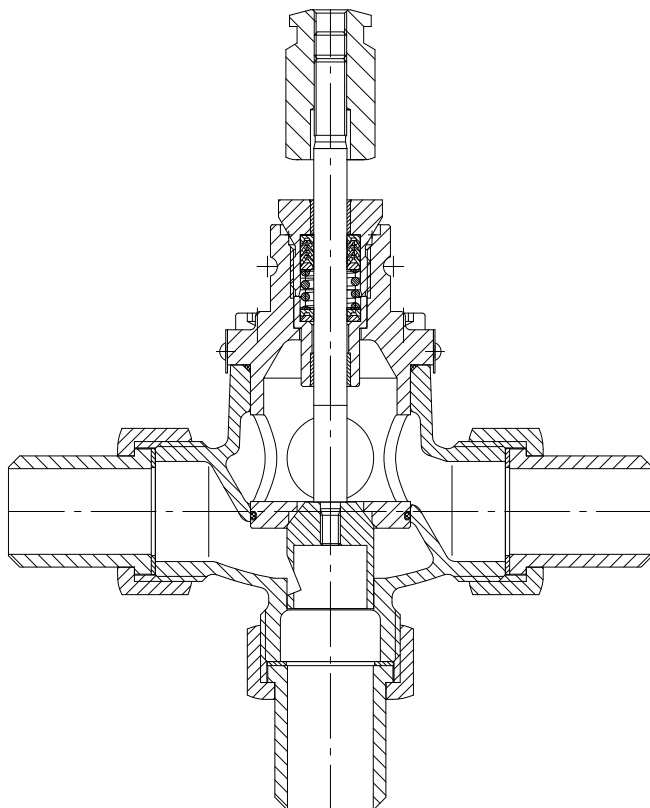
Actuators	Identification
Electric linear actuator	baelz 373-E
Pneumatic diaphragm actuator	baelz 373-P

Kvs value (m <sup>3</sup> /h)					
DN	1/2"	3/4"	1"	1 1/4"	1 1/2"
Kvs	3.5	5	9	16	16

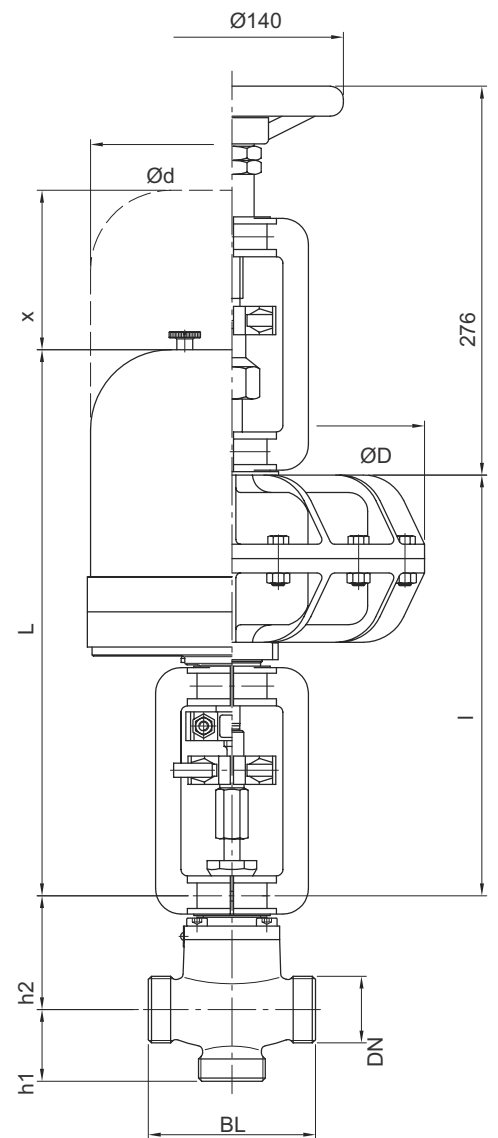
baelz 335 dimensions and weight without actuator (mm)					
DN		BL	h1	h2	Weight, approx.
		(mm)			(kg)
1/2"	15	92	33	72	1.5
3/4"	20	95	40	72	1.7
1"	25	105	45	72	1.8
1 1/4"	32	105	53	72	2
1 1/2"	40	114	57	72	2.5

Dimensions of the Baelz actuators (mm)					
Designation	L	x	Ød	l	ØD
E07	320	145	129		
E45	560	150	175		
P11				244	160
P21				268	242

Sectional drawing of the baelz 335 plug



Standard control plug with slot  
(lantern shape)  
baelz 335



baelz 335 dimensions

**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- OSX-	700	14	14	10	5	2.5	1.2	0.3							
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- 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
P11- 1	950	6.0	18.6	18.6	13.9	5.6	3.4	1.9	0.9	0.4						
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 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
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.													