



## baelz 334

### DESCRIPTION

The baelz 334 is a 2-way control valve with a red brass housing for heating, ventilation and air conditioning systems.

### TECHNICAL SPECIFICATIONS

Connection type: external thread with union nut and weld-on steel sockets

Plug type: standard control plug

Control characteristic: linear

Stroke - 12 mm

Additional options:

Weld-on stainless steel sockets (ASE) or threaded brass sockets (GT)

Working fluids: water, hot water, steam

#### Leakage class (EN 1349)

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

Options		Designation
<b>Plug</b>	Parabolic plug, slot guides (standard) stainless steel 1. 4571	baelz 334-1
<b>Spindle seal</b>	V-rings in PFTE (standard)	baelz 334-1
<b>Connection</b>	Brass union nut + steel nozzle for welding	baelz 334-1
	Brass union nut + weld-on stainless steel sockets	MP334-ASE...
	Brass union nut + threaded brass sockets	MP334-GT...

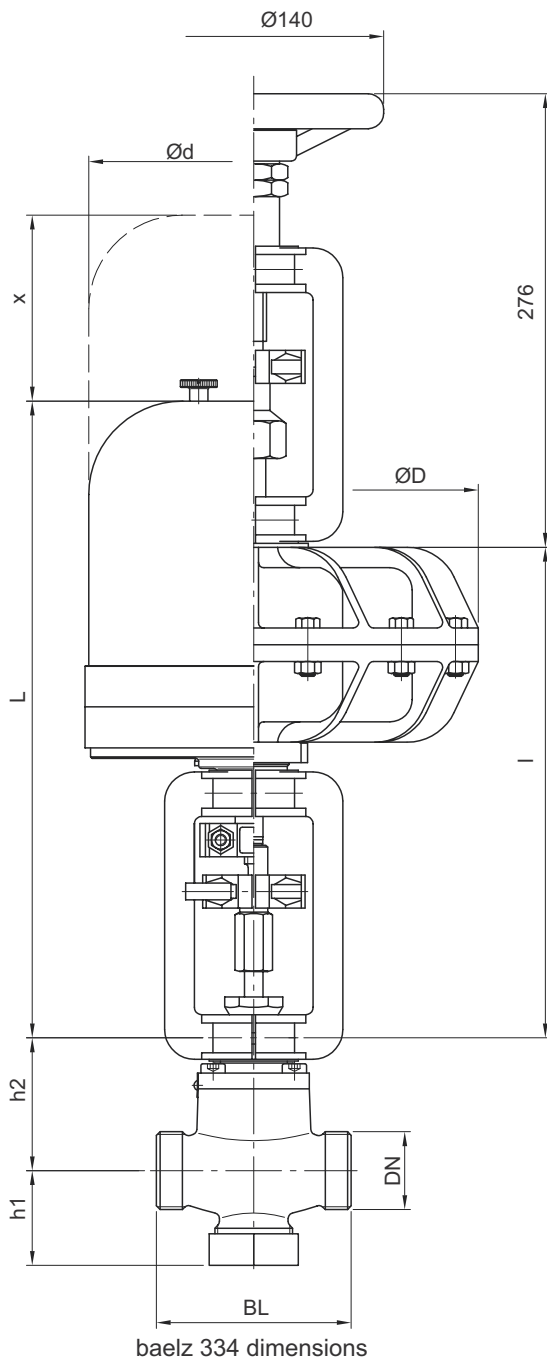
T max. (°C) / P max. (bar)	
<b>Housing material</b>	Red brass CC491K - CuSn5Zn5Pb5
<b>Nominal pressure</b>	PN 16 / 25
<b>baelz 334-1</b>	Water: 150 / 25
<b>baelz 334-GT</b>	Steam 150 / 10 ... -10 / 22
<b>baelz 334-ASE</b>	

Kvs value (m³/h)					
DN	15 (1/2")	20 (3/4")	25 (1")	32 (1 1/4")	40 (1 1/2")
<b>Standard</b>	3.5	5	9	16	16

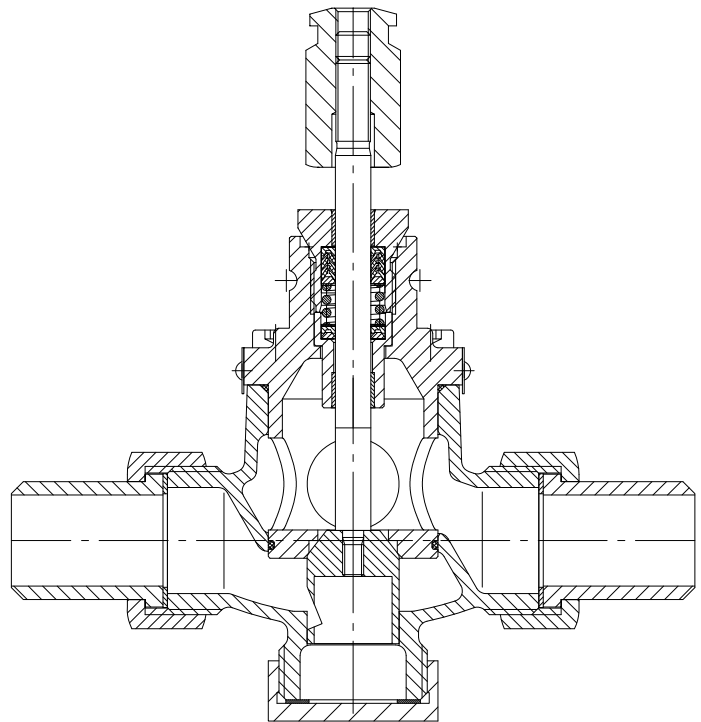
baelz 334 dimensions and weight					
DN		BL	h1	h2	Weight, approx.
		(mm)			(kg)
1/2"	15	92	38	72	1.5
3/4"	20	95	45	72	1.7
1"	25	105	50	72	1.8
1 1/4"	32	105	58	72	2
1 1/2"	40	114	62	72	2.5

Dimensions of the baelz 373 actuators (mm)					
Designation	L	x	Ød	l	ØD
E07	320	145	129		
E07-OSX	354	145	129		
P11				244	160
P21				268	242

Electric actuators: baelz 373-E  
 Pneumatic actuators: baelz 373-P



Sectional drawing of the baelz 334 plug



standard control plug  
 baelz 334

**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. 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	16	10	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									(36)	(23)	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 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	3.0	39.5	18.2	13.6	8.1	4.3	2.4	1.1	0.5						
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

**Pneumatic actuators (OPO) open without compressed air. 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	2111	6.0	40	40	40	29.2	17	10.5	5.8	3.7						
		1.2	7	7	4.5	2.8	1.8	1.1	0.6	0.4						
P21- 3	1020	3.0	40	40	40	40	31	19	12	8	5	3				
		6.0	40	40	40	40	40	40	30	20	12	8				
P21- 6	2040	3.0	40	40	35	21	14	8	5.3	3.5	2.2	1.4				
		6.0	40	40	40	40	40	39	24	16	10	6				
P31- 3	2480	1.2											0.6			
		3.0											6			
		6.0											14.8			
P31- 6	4960	3.0											3			
		6.0											12			
P41- 3	3765	1.2											1.2	0.7	0.4	0.3
		3.0											12	6.8	4.3	3
		6.0											30	17	11	7.5
P41- 6	7530	3.0												5	3	2
		6.0												15	10	6