



bælz 334

DESCRIPTION

The bælz 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 media: liquids, water

Leakage class (EN 1349)

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

Options		Designation example
Plug	Parabolic plug, slot guides (standard) stainless steel 1. 4571	bælz 334-1
Stem seal	V-rings in PFTE (standard)	bælz 334-1
Connection	Brass union nut + steel nozzle for welding	bælz 334-1
	Brass union nut + weld-on stainless steel sockets	bælz 334-ASE
	Brass union nut + threaded brass sockets	bælz 334-GT

T max. (°C) / P max. (bar)	
Housing material	Red brass CC491K - CuSn5Zn5Pb5
Nominal pressure	PN 16 / 25
bælz 334-1	140 / 25... -10 / 22
bælz 334-GT	
bælz 334-ASE	

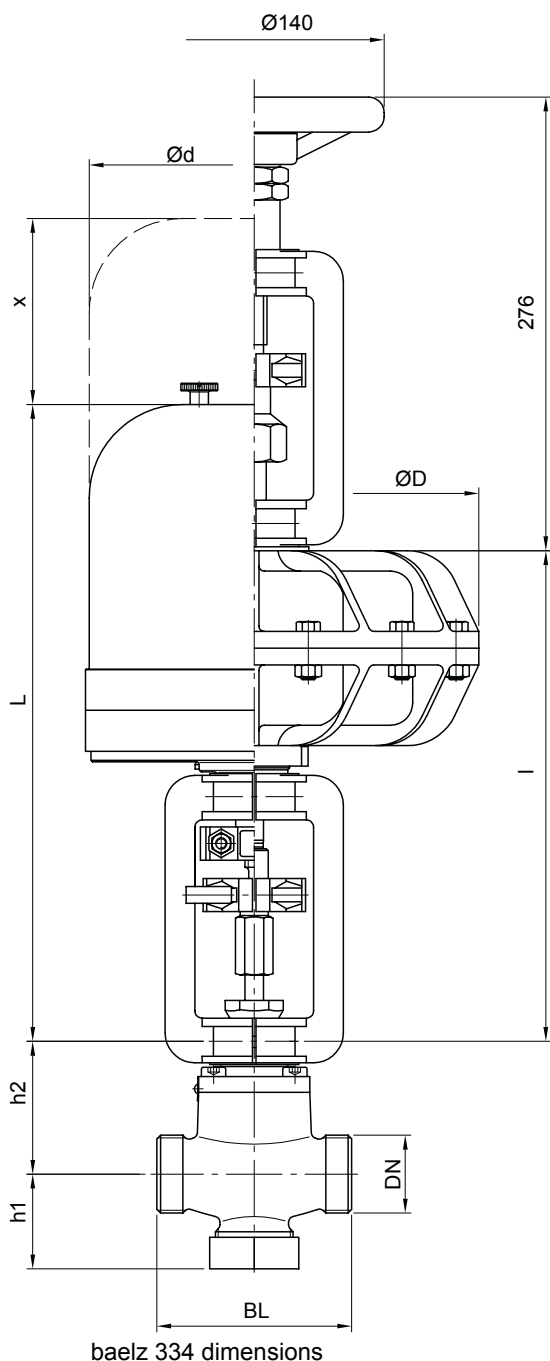
Kvs value (m³/h)					
DN	1/2"	3/4"	1"	1 1/4"	1 1/2"
Standard	3.5	5	9	16	22

bælz 334 dimensions and weight					
DN		BL	h1	h2	Weight
			(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

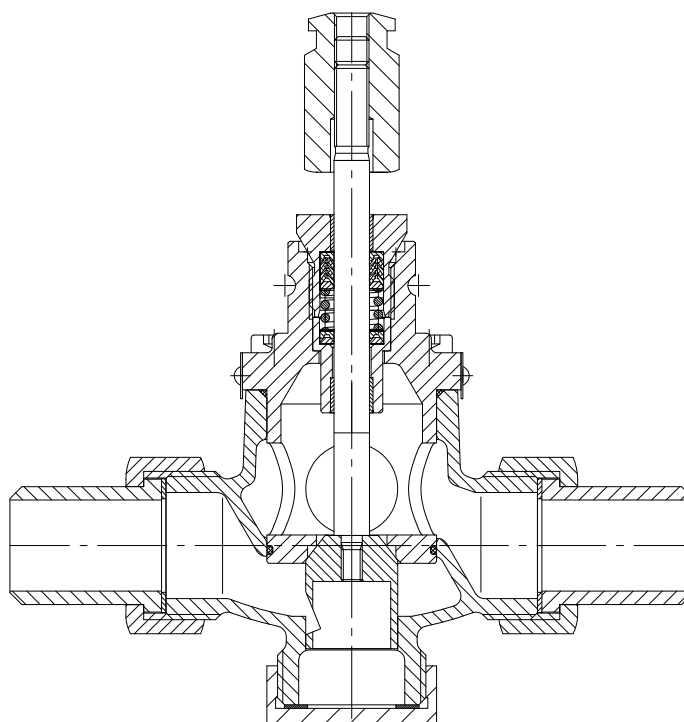
Dimensions of the bælz 373 actuators (mm)					
Designation	L	x	Ød	I	ØD
E 07	320	145	129		
P 21				268	242

Electric actuators: bælz 373-E

Pneumatic actuators: bælz 373-P



Sectional drawing of the bælz 334 plug



standard control plug
bælz 334

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 baelz 373-	Power (N)	DN (mm) / maximum differential pressure ΔPmax (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

Pneumatic actuators (OPO) open 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	7	7	4.5	2.8	1.8	1.1	0.6	0.4	-	-				
		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