

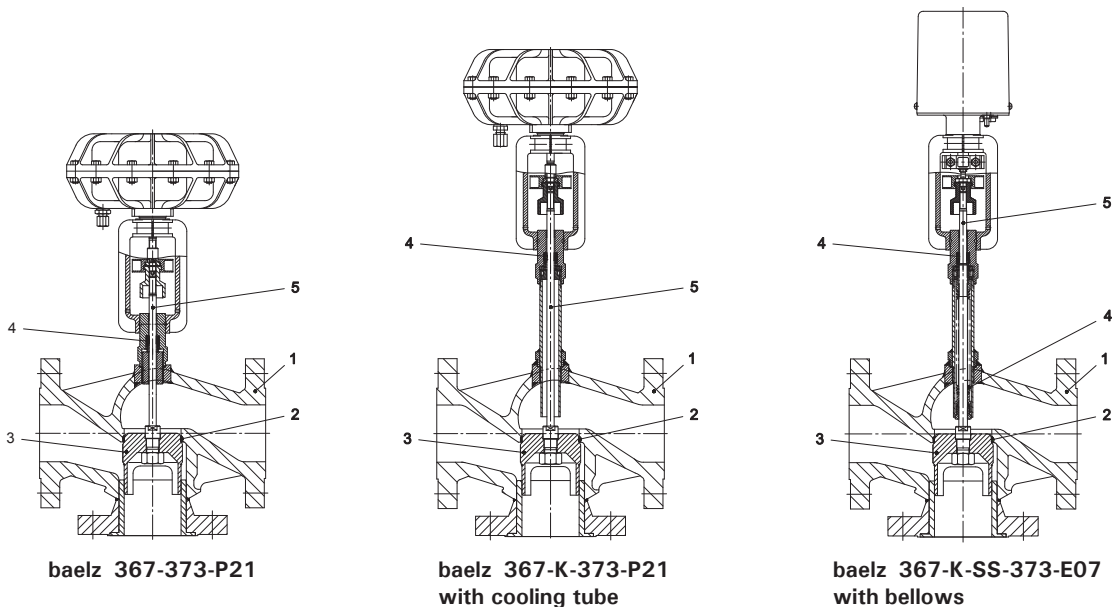
Technical Specifications for 3-way control valve
baelz 367 ANSI 150 + 300
baelz 367-K with cooling tube ANSI 150 + 300
baelz 367-K-SS with bellows ANSI 150 + 300



nominal pressure	material	nominal diameter
ANSI 150	SA216WCB	½" - 10"
ANSI 300	SA216WCB	½" - 10"
Flanges according to ASME / ANSI B16.5		
Face-to-face dimensions per ASME / ANSI B16.10		

baelz 367-A1, baelz 367-K-A1, baelz 367-K-SS-A1 – ANSI 150

baelz 367-A3, baelz 367-K-A3, baelz 367-K-SS-A3 – ANSI 300



Parts list

Pos.	designation	material
1	body	SA216WCB
2	seat	stainless steel
3	plug	stainless steel
4	stuffing box / bellows	PTFE / stainless steel
5	spindle	stainless steel

dimensions (inch)	1 inch = 25.4 mm
dimensions (mm)	
weight (lbs)	1 lbs = 0.45 kg
weight (kg)	
pressures (psig)	14.5 psi = 1 bar
pressures (barü)	
1 bar = 10 ⁵ Pa = 0.1 MPa	
Cv in us-gal/min	0.86 Cv = 1 Kvs
Kvs in m ³ /h	

Dimensions

nominal diameter		½"	¾"	1"	1½"	2"	2½"	3"	4"	6"	8"	10"
seat ø	(inch)	48.5	48.5	55	88	110	143	176	220	330	440	551
stroke	(inch)	26	26	26	48	48	48	48	48	97	145	145
Cv-value	(us-gal)	6.5	7.3	10.5	29	41.8	73.1	121.8	150.8	417.6	672.8	1113.6
nominal diameter		15	20	25	40	50	65	80	100	150	200	250
seat ø	(mm)	22	22	25	40	50	65	80	100	150	200	250
stroke	(mm)	12	12	12	22	22	22	22	22	44	66	66
Kvs-value	(m ³ /h)	5.6	6.3	9	25	36	63	105	130	360	580	960

Application

Hot water, chilled water, up to 50% glycol, steam, thermal fluid
 Leakage rate: 0.004% of Cv, stem down to close

Technical Specifications

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max. allowed temperature due to used type of stuffing box or bellows
 baelz 367-A1, baelz 367-A3: max. 450°F (232°C)
 baelz 367-K-A1, baelz 367-K-A3: max. 650°F (343°C)
 baelz 367-K-SS-A1, baelz 367-K-SS-A3: max. 650°F (343°C)

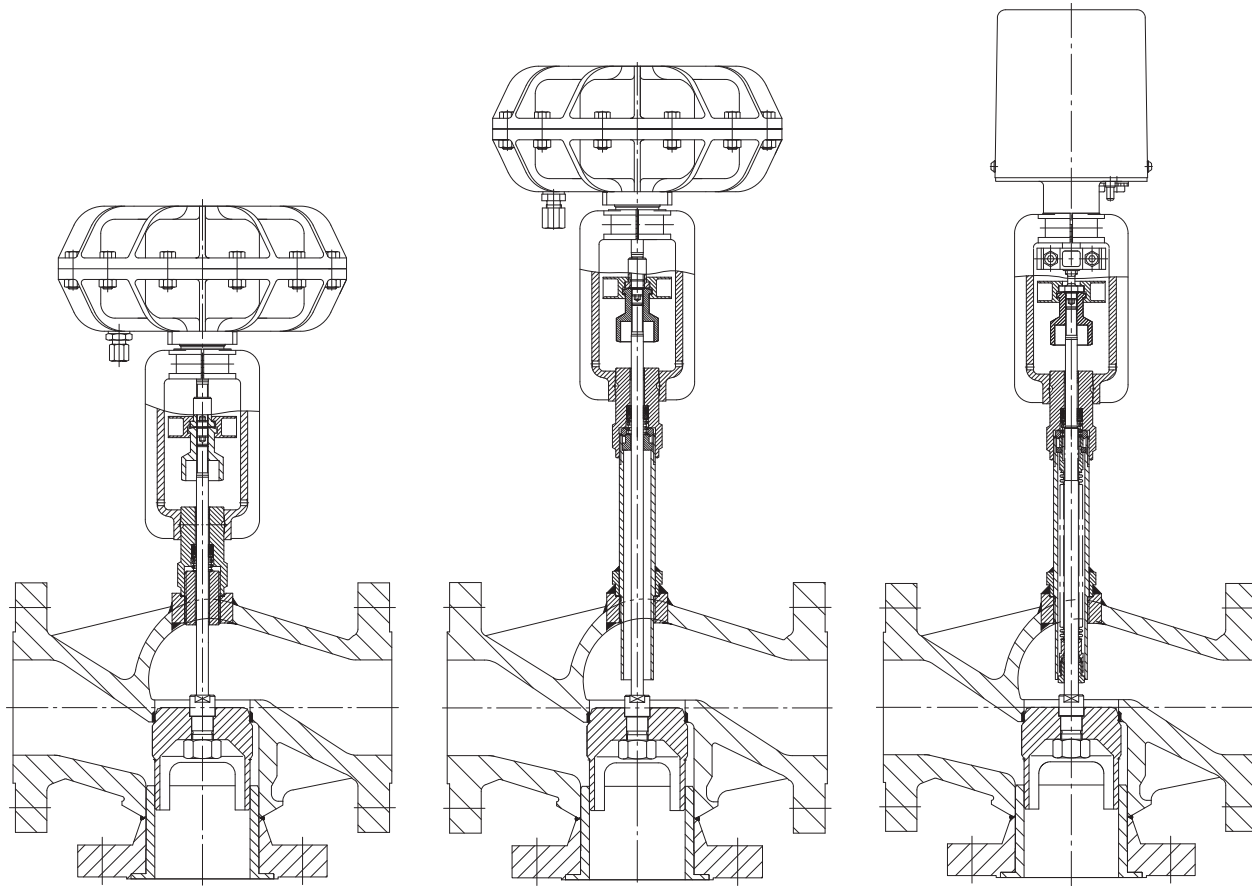
pressure + temperature ratings for the bodies: baelz 367-A1, baelz 367-A3, baelz 367-K-A1, baelz 367-K-A3:

material	NP		-20°F to 100°F	200°F	300°F	400°F	500°F	600°F	650°F	700°F	750°F	800°F
SA216WCB / SA105	ANSI 150	psi	285	260	230	200	170	140	125	110	95	80
SA216WCB / SA105	ANSI 300	psi	740	675	655	635	600	570	550	530	505	410

material	NP		-29°C to 38°C	93°C	149°C	204°C	260°C	315°C	343°C	371°C	399°C	427°C
SA216WCB / SA105	ANSI 150	bar	19.6	17.9	15.8	13.8	11.7	9.6	8.69	7.6	6.6	5.5
SA216WCB / SA105	ANSI 300	bar	51.1	46.6	45.2	43.8	41.4	39.3	37.9	36.6	34.8	28.3

pressure + temperature ratings for the bellows valves: baelz 367-K-SS-A1, baelz 367-K-SS-A3:

material	NP		-20°F to 650°F
SA216WCB / SA105	ANSI 150	psi	232
SA216WCB / SA105	ANSI 300	psi	362
SA216WCB / SA105	ANSI 150	bar	16
SA216WCB / SA105	ANSI 300	bar	25



baelz 367-AX-373-P21

baelz 367-K-AX-373-P21

baelz 367-K-SS-AX-373-E07

Technical Specifications

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Max. admissible differential pressure in psi and bar, normally closed for **pneumatic valves**.

The following valves, if applied, must be cross - checked with the max. possible pressure and temperature valves of the bodies. It is not allowed to give higher differential pressures than the max. allowed pressure for the body.

First check the max. allowed body pressure for ANSI 150 and / or ANSI 300 with your max. temperature.

ND		373-P21-6		373-P21-18		373-P21-V6		373-P31-6		373-P31-18		373-P41-6		373-P41-V6	
inch	mm	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar
½"	15	580	40	580	40	580	40								
¾"	20	580	40	580	40	580	40								
1"	25	507	35	580	40	420	29								
1 ½"	40	195	13.5	391	27	166	11.5								
2"	50	116	8	261	18	101	7								
2 ½"	65	72	5	145	10	62	4.3								
3"	80	49	3.4	101	7	40	2.8								
4"	100	31	2.2	65	4.5	26	1.8								
6"	150							33	2.3	72	5				
8"	200											29	2	50	3.5
10"	250											18	1.3	33	2.3

Technical values only for mixing valves.

If the differential pressure you need is not covered by this table, use a balanced valve.

The max. allowed body pressure for bellows valves are for ANSI 150 - 232 psi / 16 bar - 650°F - 343°C
for ANSI 300 - 362 psi / 25 bar - 650°F - 343°C

Max. admissible differential pressure in psi and bar, for **electrically motorized valves**.

The following valves, if applied, must be cross - checked with the max. possible pressure and temperature valves of the bodies. It is not allowed to give higher differential pressures than the max. allowed pressure for the body.

First check the max. allowed body pressure for ANSI 150 and / or ANSI 300 with your max. temperature.

ND		373-E07 373-E11		373-E40		373-E62		373-E88- 100-16		373-E88- 300-40	
inch	mm	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar
½"	15	580	40	580	40						
¾"	20	580	40	580	40						
1"	25	507	35	580	40						
1 ½"	40	174	12	391	27						
2"	50	116	8	232	16						
2 ½"	65	66	4.6	145	10						
3"	80	42	2.9	100	6.9						
4"	100	24	1.7	63	4.4						
6"	150					103	7.1	121	8.4	314	21.7
8"	200					55	3.8	66	4.6	175	12.1
10"	250					33	2.3	42	2.9	111	7.7

Technical values only for mixing valves.

If the differential pressure you need is not covered by this table, use a balanced valve.

The max. allowed body pressure for bellows valves are for ANSI 150 - 232 psi / 16 bar - 650°F - 343°C
for ANSI 300 - 362 psi / 25 bar - 650°F - 343°C

Technical Specifications

Spec 367

Flange dimensions per ANSI B 16.5

ND		inch	½"	¾"	1"	1½"	2"	2½"	3"	4"	6"	8"	10"
ANSI 150	øD1	inch	3.5	3.9	4.25	5	6	7	7.52	9	11	13.5	16
ANSI 150	øK1	inch	2.36	2.76	3.1	3.86	4.76	5.51	5.98	7.52	9.49	11.73	14.25
ANSI 150	n x ød1	n x inch	4 x 0.63	4 x 0.63	4 x 0.63	4 x 0.63	4 x 0.57	4 x 0.75	4 x 0.75	8 x 0.75	8 x 0.87	8 x 0.87	12 x 0.98
ANSI 300	øD2	inch	3.74	4.61	4.88	6.1	6.5	7.52	8.27	10	12.52	15	17.52
ANSI 300	øK2	inch	2.62	3.25	3.5	4.49	5	5.87	6.61	7.87	10.63	12.99	15.24
ANSI 300	n x ød2	n x inch	4 x 0.63	4 x 0.75	4 x 0.75	4 x 0.87	8 x 0.75	8 x 0.87	8 x 0.87	8 x 0.87	12 x 0.87	12 x 0.98	16 x 1.4

ND		mm	15	20	25	40	50	65	80	100	150	200	250
ANSI 150	øD1	mm	89	99	108	127	153	178	191	229	279	343	406
ANSI 150	øK1	mm	60	70	79	98	121	140	152	191	241	298	362
ANSI 150	n x ød1	n x mm	4 x 16	4 x 16	4 x 16	4 x 16	4 x 19	4 x 19	4 x 19	8 x 19	8 x 22	8 x 22	12 x 25
ANSI 300	øD2	mm	95	117	124	155	165	191	210	254	318	381	445
ANSI 300	øK2	mm	66.5	82.5	89	114	127	149	168	200	270	330	387
ANSI 300	n x ød2	n x mm	4 x 16	4 x 19	4 x 19	4 x 22	8 x 19	8 x 22	8 x 22	8 x 22	12 x 22	12 x 25	16 x 29

Face-to-face length per ANSI 16.10

ND		½"	¾"	1"	1½"	2"	2½"	3"	4"	6"	8"	10"
ANSI 150	(inch)	4.25	4.61	5	6.5	7.99	8.5	9.49	11.5	15.98	19.49	24.49
ANSI 150	(mm)	108	117	127	165	203	216	241	292	406	495	622
ANSI 300	(inch)	6.98	7.01	7.99	9.02	10.51	11.5	12.52	14.02	17.48	22.01	24.49
ANSI 300	(mm)	152	178	203	229	267	292	318	356	444	559	622

Weights (without actuator) ANSI 150

nominal diameter		½"	¾"	1"	1½"	2"	2½"	3"	4"	6"	8"	10"
367	(lbs)	11.4	11.8	12.8	14.3	26.4	46.2	54	88	172	370	572
367-K	(lbs)	14.3	14.8	15.6	18.9	33.3	48.9	57.1	92	196	480	683
367-K-SS	(lbs)	15	15.4	16.3	19.4	33.7	50.3	59.7	95	206	489	694
nominal diameter		15	20	25	40	50	65	80	100	150	200	250
367	(kg)	5.2	5.4	5.8	6.5	12	21	24.5	40.2	78	168	260
367-K	(kg)	6.5	6.7	7.1	8.6	15.1	22.2	25.9	41.7	89	218	310
367-K-SS	(kg)	6.8	7	7.4	8.8	15.3	22.8	27.1	42.9	93.5	222	315

Weights (without actuator) ANSI 300

nominal diameter		½"	¾"	1"	1½"	2"	2½"	3"	4"	6"	8"	10"
367	(lbs)	11.8	13.9	19	21	32.8	50.6	64	108	207	425	649
367-K	(lbs)	14.7	16.9	21.8	25.6	39.7	53.3	67.1	112	231	535	760
367-K-SS	(lbs)	15.4	17.5	22.5	26.1	40.1	54.7	69.7	115	241	544	771
nominal diameter		15	20	25	40	50	65	80	100	150	200	250
367	(kg)	5.4	6.3	8.6	9.5	14.9	23	29	49.2	94	193	295
367-K	(kg)	6.8	7.6	9.9	11.6	18.0	24.2	30.4	50.7	105	243	345
367-K-SS	(kg)	7.0	7.9	10.2	11.8	18.2	24.8	31.6	51.9	110	247	350