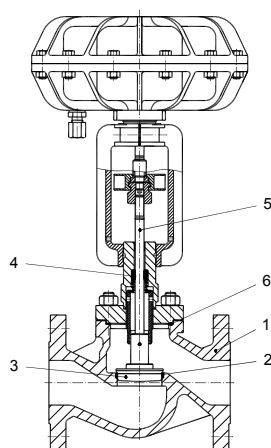
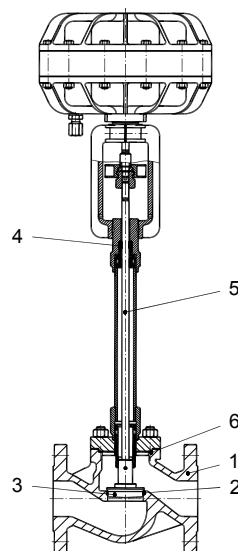
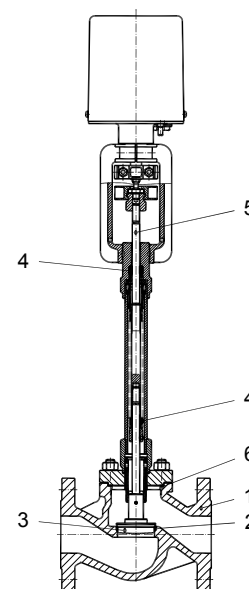


Technical Specifications
Spec 365
Technical Specifications for 2-way control valve
baelz 365 ANSI 150 + 300
baelz 365-K with cooling tube ANSI 150 + 300
baelz 365-K-SS with bellow ANSI 150 + 300


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 365-A1, baelz 365-K-A1, baelz 365-K-SS-A1 — ANSI 150

baelz 365-A3, baelz 365-K-A3, baelz 365-K-SS-A3 — ANSI 300


baelz 365-373-P21

baelz 365-K-373-P21-V6
with cooling tube

baelz 365-K-SS-373-E07
with bellows
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
6	gasket	engineered graphite with 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

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TA-JS-4411

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Technical Specifications
Spec 365

max. allowed temperature due to used type of stuffing box or bellows

baelz 365-A1, baelz 365-A3: max. 450°F (232°C)

baelz 365-K-A1, baelz 365-K-A3: max. 650°F (343°C)

baelz 365-K-SS-A1, baelz 365-K-SS-A3: max. 650°F (343°C)

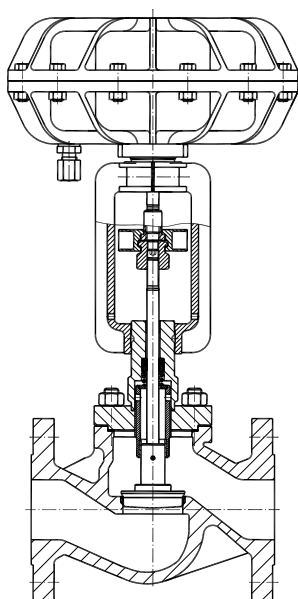
pressure + temperature ratings for the bodies: baelz 365-A1, baelz 365-A3, baelz 365-K-A1, baelz 365-K-A3:

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

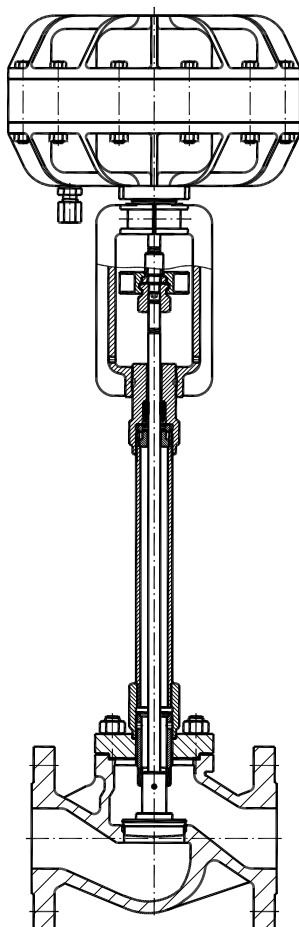
material	NP		-29°C to 38°C	93°C	149°C	204°C	260°C	315°C	343°C	371°C	399°C	427°C
SA216WCB / SA105	ANSI 150	bar	19.6	17.9	15.8	13.8	11.7	9.6	8.69	7.6	6.6	5.5
SA216WCB / SA105	ANSI 300	bar	51.1	46.6	45.2	43.8	41.4	39.3	37.9	36.6	34.8	28.3

pressure + temperature ratings for the bellows valves: baelz 365-K-SS-A1, baelz 365-K-SS-A3:

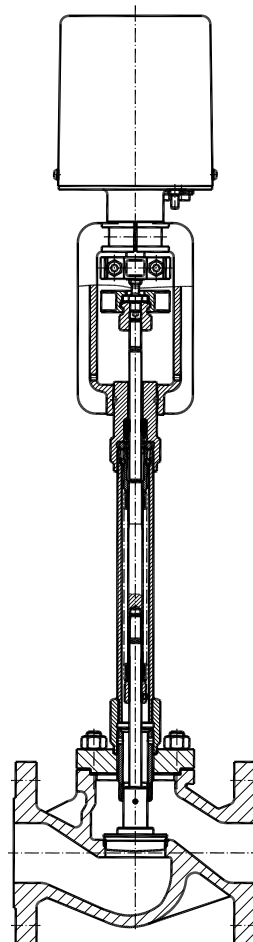
material	NP		-20°F to 650°F
SA216WCB / SA105	ANSI 150	psi	232
SA216WCB / SA105	ANSI 300	psi	362
SA216WCB / SA105	ANSI 150	bar	16
SA216WCB / SA105	ANSI 300	bar	25



baelz 365-AX-373-P21



baelz 365-K-AX-373-P21-V6



baelz 365-K-SS-AX-373-E07

Technical Specifications
Spec 365

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	580	40								
1 ½"	40	195	13.5	391	27	580	40								
2"	50	129	8.9	261	18	493	34								
2 ½"	65	89	5.2	145	10	290	20								
3"	80	49	3.4	101	7	188	13								
4"	100	31	2.2	65	4.5	116	8								
6"	150							34	2.4	76	5.3				
8"	200											29	2	123	8.5
10"	250											18	1.3	75	5.2

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

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 365
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 9	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"
365	(lbs)	11.4	11.8	12.8	14.3	26.4	46.2	54	88	172	370	572
365-K	(lbs)	14.3	14.8	15.6	18.9	33.3	48.9	57.1	92	196	480	683
365-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
365	(kg)	5.2	5.4	5.8	6.5	12	21	24.5	40.2	78	168	260
365-K	(kg)	6.5	6.7	7.1	8.6	15.1	22.2	25.9	41.7	89	218	310
365-K-SS	(kg)	6.8	7	7.4	8.8	15.3	22.8	27.1	42.9	93.5	222	315

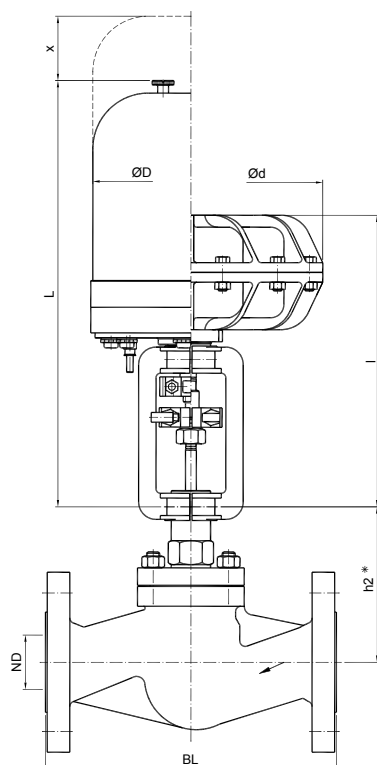
Weights (without actuator) ANSI 300

nominal diameter		½"	¾"	1"	1½"	2"	2½"	3"	4"	6"	8"	10"
365	(lbs)	11.8	13.9	19	21	32.8	50.6	64	108	207	425	649
365-K	(lbs)	14.7	16.9	21.8	25.6	39.7	53.3	67.1	112	231	535	760
365-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
365	(kg)	5.4	6.3	8.6	9.5	14.9	23	29	49.2	94	193	295
365-K	(kg)	6.8	7.6	9.9	11.6	18.0	24.2	30.4	50.7	105	243	345
365-K-SS	(kg)	7.0	7.9	10.2	11.8	18.2	24.8	31.6	51.9	110	247	350

Technical Specifications
Spec 365
Dimensions

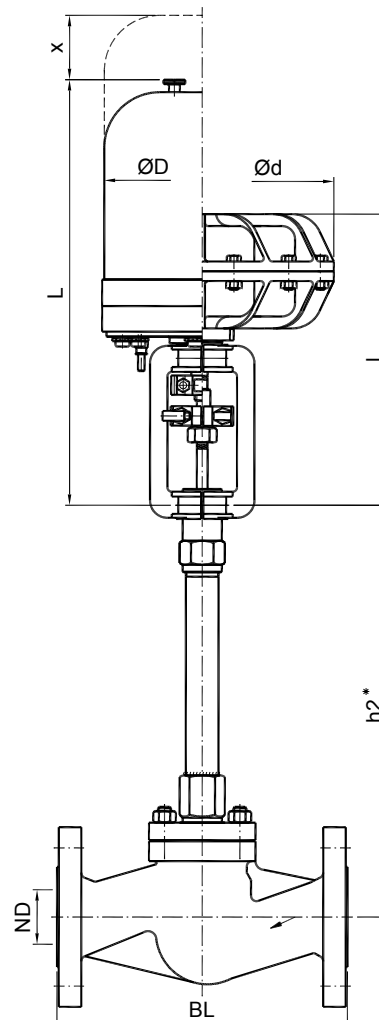
baelz 365-K ND ½" - 4" ANSI 150 + 300
 ND 15 - 100
 baelz 365-K-SS ND ½" - 4" ANSI 150 + 300
 ND 15 - 100

baelz 365 ND ½" - 4" ANSI 150 + 300
 ND 15 - 100



ND	ND	BL				h2 *	
		ANSI 150		ANSI 300			
inch	mm	inch	mm	inch	mm	inch	mm
½"	15	4.25	108	6.98	152	3.9	100
¾"	20	4.61	117	7.01	178	4.3	110
1"	25	5	127	7.99	203	4.7	120
1½"	40	6.5	165	9.02	229	5.1	130
2"	50	7.99	203	10.51	267	5.5	140
2½"	65	8.5	216	11.5	292	6.3	160
3"	80	9.49	241	12.52	318	6.7	170
4"	100	11.5	292	14.02	356	7.1	180

*reserved to change dimensions



ND	ND	BL				h2 *	
		ANSI 150		ANSI 300			
inch	mm	inch	mm	inch	mm	inch	mm
½"	15	4.25	108	6.98	152	11.8	300
¾"	20	4.61	117	7.01	178	12.2	310
1"	25	5	127	7.99	203	12.6	320
1½"	40	6.5	165	9.02	229	14.6	370
2"	50	7.99	203	10.51	267	15	380
2½"	65	8.5	216	11.5	292	15	380
3"	80	9.49	241	12.52	318	15.4	390
4"	100	11.5	292	14.02	356	15.8	400

*reserved to change dimensions

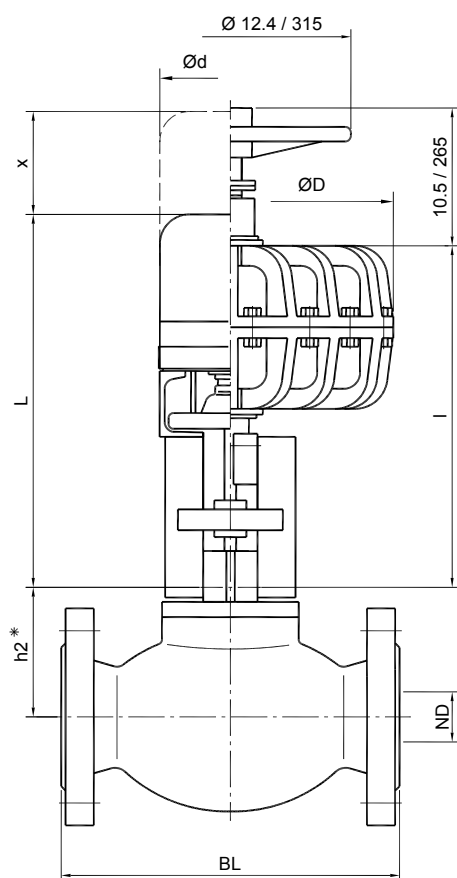
Actuator baelz 373...	L		x		Ød		l		ØD	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
E 07		12.6	320	5.7	145	5.1	129			
E 11		19.6	499	7.1	180	7.2	183			
E 40		15.4	391	7.3	185	7.3	184			
P21							10.6	268	9.5	242
P21-V6							11.9	304	9.5	242
P22							12.6	322	9.5	242

Technical Specifications
Spec 365

**baelz 365-K ND 6" - 10" ANSI 150 + 300
ND 150 - 250**

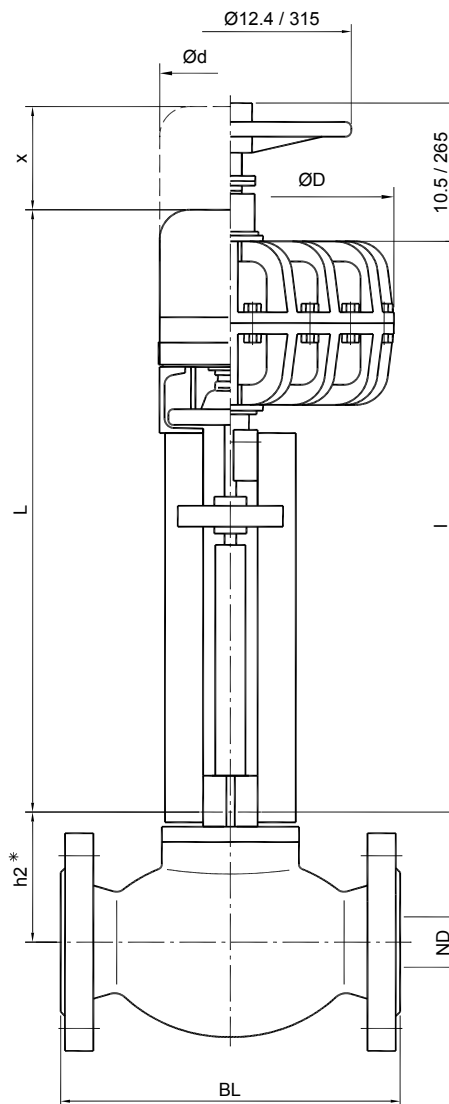
**baelz 365-K-SS ND 6" - 10" ANSI 150 + 300
ND 150 - 250**

**baelz 365 ND 6" - 10" ANSI 150 + 300
ND 150 - 250**



ND	ND	BL				h2*	
		ANSI 150	ANSI 300	inch	mm		
inch	mm	inch	mm	inch	mm	inch	mm
6"	150	15.98	406	17.48	444	9.8	250
8"	200	19.49	495	22.01	559	10.6	270
10"	250	24.49	622	24.49	622	12.6	320

* reserved to change dimensions



ND	ND	BL				h2*	
		ANSI 150	ANSI 300	inch	mm		
inch	mm	inch	mm	inch	mm	inch	mm
6"	150	15.98	406	17.48	444	9.8	250
8"	200	19.49	495	22.01	559	10.6	270
10"	250	24.49	622	24.49	622	12.6	320

* reserved to change dimensions

Actuator baelz 373...	L		x		Ød		I		ØD	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
E 40	22.7	577	7.3	185	7.2	184				
E 62	30.5	775	7.9	200	5.3	135				
E 88	18.1	461	1.2	30	20.2	514				
P31							20	509	15.1	384
P32							20.7	525	15.1	384
P41							22.1	562	19.9	506
P41V6							27.1	687	19.9	506

Actuator baelz 373...	L		x		Ød		I		ØD	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
E 40	41.6	1057	7.3	185	7.2	184				
E 62	49.4	1255	7.9	200	5.3	135				
E 88	37	941	1.2	30	20.2	514				
P31							38.9	989	15.1	384
P32							39.6	1005	15.1	384
P41							41	1042	19.9	506
P41V6							45.9	1167	19.9	506

Technical Specifications
Spec 365
Valve series baelz 365
Checklist for 6 valve series:

baelz 365-A1 ND ½" - 10" ANSI 150 max. 450°F (232°C)
 baelz 365-A3 ND ½" - 10" ANSI 300 max. 450°F (232°C)
 baelz 365-K-A1 ND ½" - 10" ANSI 150 max. 650°F (343°C)
 baelz 365-K-A3 ND ½" - 10" ANSI 300 max. 650°F (343°C)
 baelz 365-K-SS-A1 ND ½" - 10" ANSI 150 max. 650°F (343°C)
 baelz 365-K-SS-A3 ND ½" - 10" ANSI 300 max. 650°F (343°C)

body in SA 216 WCB / SA 105

temperatures: 14°F (-10°C) to 450°F (232°C) for valves with stuffing box

14°F (-10°C) to 650°F (343°C) for bellows valves

pressures: see table page 3

ND (inch)	½"	¾"	1"	1½"	2"	2½"	3"	4"	6"	8"	10"
ND (mm)	15	20	25	40	50	65	80	100	150	200	250
Cv (us-gal/min.)	6.5	7.3	10.5	29	41.8	73.1	121.8	150.8	417.6	672.8	1113.6
Kvs (m³/h)	5.6	6.3	9	25	36	63	105	130	360	580	960

Text for quotations + orders:
2-way control valve baelz 365-AX

X = 1 for ANSI 150

X = 3 for ANSI 300

without actuator

C_{vo} = 0.004%

body material

SA216WCB

internal parts : stainless steel

spindle-Ø : 0.39 / 0.63 / 0.87 inch
10 / 16 / 22 mm

stuffing box : V-rings in PTFE

stroke ½" - 1" : 0,47 inch
ND 15 - 25 : 12 mm
1 ½" - 4" : 0,87 inch
ND 40 - 100 : 22 mm
6" - 10" : 1,73 - 2,60 inch
ND 150 - 250 : 44 - 66 mm

flow :

pressure drop

Δp₁₀₀ : bar

max. closing pressure

Δp₀ : bar

Text for quotations + orders:
2-way control valve baelz 365-K-AX

X = 1 for ANSI 150

X = 3 for ANSI 300

without actuator

C_{vo} = 0.004%

body material

SA216WCB

internal parts : stainless steel

spindle-Ø : 0.39 / 0.63 / 0.87 inch
10 / 16 / 22 mm

stuffing box : V-rings in PTFE

stroke ½" - 1" : 0,47 inch
ND 15 - 25 : 12 mm
1 ½" - 4" : 0,87 inch
ND 40 - 100 : 22 mm
6" - 10" : 1,73 - 2,60 inch
ND 150 - 250 : 44 - 66 mm

flow :

pressure drop

Δp₁₀₀ : bar

max. closing pressure

Δp₀ : bar

special types available:

1. extended pressure application
365-A1-EMF, 365-A3-EMF
please contact baelz for details
2. extended temperature application
365-KK-A1, 365-KK-A3
max. 800°F (427°C)