



Leakage class (EN 1349)

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

baelz 480

DESCRIPTION

The baelz 480 Jetomat is a controlled liquid/liquid ejector with flange connection for mixing and recirculation

Housing: GJS-400-18-LT - 5.3103 / GP240GH - 1.0619 (PN 40 & DN 250)

Diffuser: DN 15: X14CrMoS17

DN 25...125: GJS-400-18-LT

≥ DN 150 and all PN 40: steel, welded

Plug stem and nozzle: stainless steel

TECHNICAL SPECIFICATIONS

Connection type: Flange EN 1092-2; EN 1092-1 Shapes D / E / F on request

The plug type and the control characteristic are designed and manufactured to order.

Spindle seal: V-rings in PFTE, DN 15-125 with wiper set

- Option: baelz 480-K - with cooling tube (MP480-stem-Ø-K)
- Option: silicone-free version (MP480-Silf-)

Working fluids: liquids, water, thermal oil

Stroke (mm)		Spindle Ø (mm)
DN 15 - DN 25. nozzle ≤ 6.5 mm	12	10
DN 15 - DN 25. nozzle > 8 mm	22	10
DN 32 - DN80	22	10
DN 100 - DN 125*	22 and 40*	16
DN 150	40 and 44	16 / 22
DN 200 - DN 250	66	22

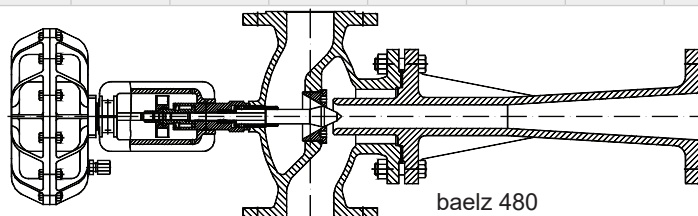
*recommended actuators for DN 100 and DN 125:

Stroke 22, Actuator 373-P21-L...

Stroke 40, Actuator 373-P22-L...

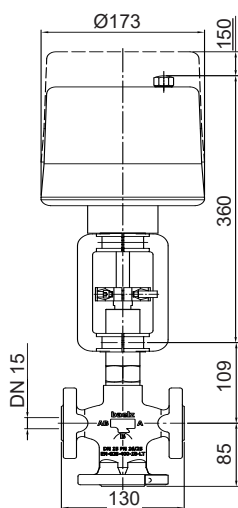
Housing material	T max. (°C) / P max. (bar)				
	GJS-400-18-LT - 5.3103		GP240GH - 1.0619		GP240GH - 1.0619
Nominal pressure	PN16	PN25	PN16	PN25	PN40
baelz 480 DN15-DN125	240 / 14 ... 50 / 16	240 / 22 ... 50 / 25			
baelz 480 DN150-DN200	240 / 12,3 ... 50 / 16	240 / 19,3 ... 50 / 25			240 / 30,9 ... 50 / 40
baelz 480 DN250	-	-	240 / 12,3 ... 50 / 16	240 / 19,3 ... 50 / 25	
baelz 480-K DN15-DN200	350 / 11,2 ... 50 / 16	350 / 17,5 ... 50 / 25			
baelz 480-K DN250	-	-	240 / 10,2 ... 50 / 16	240 / 16 ... 50 / 25	350 / 25,7 ... 50 / 40

Available nozzle diameters (mm)													
DN	15	25	32	40	50	65	80	100	125	150	200	250	
Ø	2.5	6.5	8	10	12.5	16	20	25	32	40	65	80	
	3.2	8	10	12.5	16	20	25	32	40	50	80	100	
	4	10	12.5	16	20	25	32	40	50	65	100	120	
	5					23	30	37	47	60		110	
	6.5												
	8												

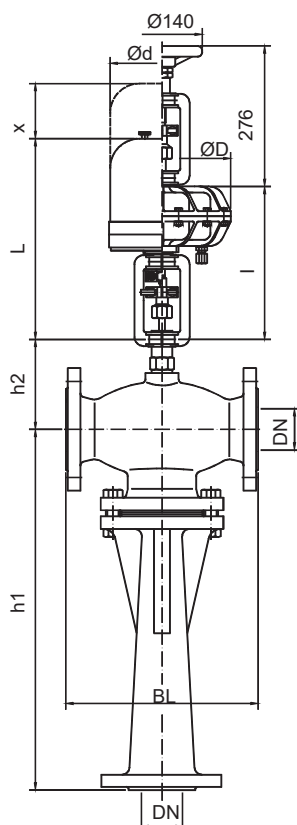


baelz 480

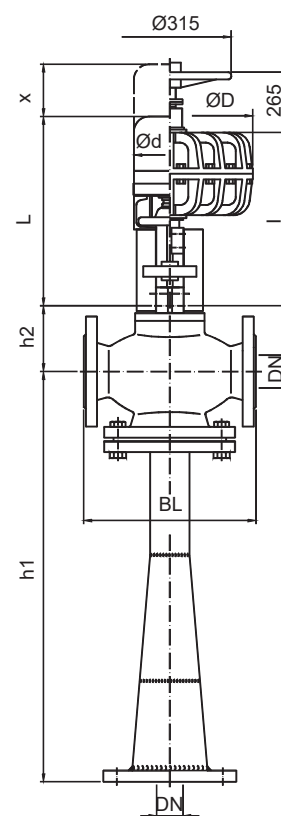
Approximate weights of the baelz 480 (kg)												
DN	15	25	32	40	50	65	80	100	125	150	200	250
Spheroidal ductile iron	6.3	9.1	14.9	19.3	25.3	40.4	50.6	68	104.3	145	300	450
Steel	7.4	10.2	16	20.4	27	42	52.6	70	106.3	148	310	460



baelz 480 DN15



baelz 480 DN25-125



baelz 480 DN150-300

baelz 480 dimensions (mm)					
DN	BL	h1		h2	
		PN16/25	PN40	480	480-K
15	130	85	85	109	261
25	160	202	229	110	163
32	180	302	302	104	339
40	200	358	358	114	349
50	230	402	429	124	359
65	290	539	573	144	379
80	310	600	695	154	389
100	350	624 (912)	912	204	404
125	400	836 (1066)	1066	224	424
150	480	1260		244	
200	600	1651		268	
250	730	2070		317	

Dimensions of the baelz 373 actuators (mm)					
Designation	L	x	Ød	l	ØD
E07	320	145	129		
E45	560	150	175		
P11				244	160
P21				268	242
P21-V6				304	242
P22				322	242

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

The differential pressures specified here are limited by the nominal pressure of the valve body, if this is lower.

Electric actuators baelz 480, 590 - DN 15 to DN 125. Plug closes in direction of flow.

Actuator baelz 373-	Power (N)	Nozzle Ø (mm) / Maximum differential pressure ΔPmax (bar)												
		≤ 12,5	16	20	23	25	30	32	37	40	47	50	60	72
E07- OSX-	700	64.2	26.7	16.9	12.8	10.8	7.6	6.7	5.1	4.8	3.4	3	2.1	1.5
E07-	2000	183.3	76.4	48.1	36.4	30.9	21.7	19.2	14.5	13.6	9.8	8.6	6.0	4.2
E65- 11-	1100	100.8	42	26.5	20	17	11.9	10.5	8	7.5	5.4	4.7	3.3	2.3
E65- 20-	2000	183.3	76.4	48.1	36.4	30.9	21.7	19.2	14.5	13.6	9.8	8.6	6.0	4.2
E45-	4000			96.3	72.9	61.9	43.4	38.3	29	27.3	19.5	17.2	11.9	8.3
E66- 80-	8000					123.7	86.8	76.6	58	54.6	39.1	34.5	23.9	16.6

Electric actuators baelz 480, 590 - ≥ DN 150. Plug closes in direction of flow.

Actuator baelz 373-	Power (N)	Nozzle Ø (mm) / Maximum differential pressure ΔPmax (bar)										
		40	50	60	65	70	80	90	100	110	120	
E63-	4448	37.3	21.9	14.6	11.9	10.2	7.8	6.1	4.9	4.1	3.4	
E64-	7000	58.8	34.5	23	18.8	16.1	12.2	9.6	7.8	6.4	5.4	
E66- 80-	8000	67.2	39.4	26.3	21.4	18.4	13.9	11	8.9	7.3	6.2	
E88- 100-	10000	83.9	49.3	32.9	26.8	23	17.4	13.7	11.1	9.2	7.7	
E64-	14000	120.1	70.5	47.1	38.3	32.9	25	19.6	15.9	13.1	11	
E66- 150-	15000	128.7	75.6	50.4	41.1	35.2	26.7	21	17	14	11.8	
E88- 100-	16000	137.3	80.6	53.8	43.8	37.5	28.5	22.4	18	15	12.6	
E88- 300-	30000	265.8	156.1	104.1	84.8	72.7	55.2	43.4	35.1	29	24.4	

Pneumatic actuators baelz 480, 590 - DN 15 to DN 125. Plug closes in direction of flow.

Actuator baelz 373-	Power (N)	required feed pressure (bar)	Nozzle Ø (mm) / Maximum differential pressure ΔPmax (bar)										
			≤ 20	23	25	30	32	37	40	47	50	60	72
P11- 1-	950	6.0	85	65	55	39	34	26					
P21- 3-	1020	6.0	322	244	207	145	128	97	91	65	58	40	28
P21- 6-	2040	3.0	124	94	80	56	49	37	35	25	22	15	11
P21- 6-	2040	6.0	298	225	191	134	118	90	84	60	53	37	26
P21- 12-	3390	6.0	265	201	170	119	105	80	75	54	47	33	23
P21- 18-	4030	6.0	250	189	160	113	99	75	71	51	45	31	22
P21- V6-	7590	6.0	164	124	105	74	65	49	46	33	29	20	14
P22- 1-	800	3.0			99	69	61	46	44	31	28	19	13
P22- 3-	1846	6.0			194	136	120	91	86	61	54	37	26
P22- 6-	3692	6.0			166	116	103	78	73	52	46	32	22

Pneumatic actuators baelz 480, 590 - ≥ DN 150. Plug closes in direction of flow.

Actuator baelz 373-	Power (N)	required feed pressure (bar)	Nozzle Ø (mm) / Maximum differential pressure ΔPmax (bar)										
			40	50	60	65	70	80	90	100	110	120	
P31- 3-	2480	6.0	291	171	114	93	80	61	48	39	32	27	
P31- 6-	4960	6.0	271	159	106	86	74	56	44	36	30	25	
P31- 18-	10560	6.0	224	131	88	71	61	46	37	30	24	20	
P32- 3-	2201	6.0	294	172	115	94	80	61	48	39	32	27	
P32- 6-	4402	6.0	275	162	108	88	75	57	45	36	30	25	
P32- 18-	8115	6.0	244	143	96	78	67	51	40	32	27	22	
P41- 3-	3765	6.0	598	351	234	191	164	124	98	79	65	55	
P41- 6-	7530	6.0	566	333	222	181	155	118	93	75	62	52	
P41- V6-	31920	6.0	382	224	150	122	104	79	62	50	42	35	
P22- 1-	800	3.0	54	32	21	17	15	11	9	7	6	5	
P22- 3-	1846	6.0	105	62	41	34	29	22	17	14	11	10	
P22- 6-	3692	6.0	90	53	35	29	25	19	15	12	10	8	