

2/2-way Automatic valve - Type PKI2

with pneumatic actuator bar-agturn®

Technical Datasheet



Product description



Shut-off valve made of stainless steel, three-piece, with floating precision ball. The valve is pneumatically operated (double-acting or single-acting) and is characterised by a long service life and high operational reliability.

Technical data 2/2-way ball valve

Technical data	
Nominal diameter	DN 15 - DN 100
Connection type	Female thread G 1/2" to G 4" according to DIN ISO 228 alternatively: Weld-on ends according to DIN EN ISO 1127:2019
Installation position	any
Nominal pressure stage	DN 15 – 50: PN 63 DN 65 – 100: PN 50
Operating pressure	see pressure-temperature diagram
Temperature range	-20°C to +180°C
Materials	Casing, ball: Stainless steel CF8M (1.4408) Shaft: Stainless steel AISI 316 Sealing shells: PTFE Shaft seal: PTFE + FPM
Flow media	Neutral gases and liquids (other media on request)
Flow direction	any

Technical data GD/GS drive

Technical data	
Control pressure	2 to 8 bar
Control medium	Air or neutral gases (other media on request) in accordance with DIN ISO 8573-1 Class 4 (minimum requirement)
Ambient temperature	-20 °C to +80 °C (standard), -20 °C to +160 °C
Actuation	Pneumatic double-acting or single-acting
End position adjustment	From GD-040 +5° to -5° adjustable in both end positions
Interfaces	according to EN ISO 5211 and VDI/VDE 3845
Certificates	SIL 3 by TÜV Rheinland, test specifications IEC61508 Parts 1-2 and 4-7:2010

Special designs

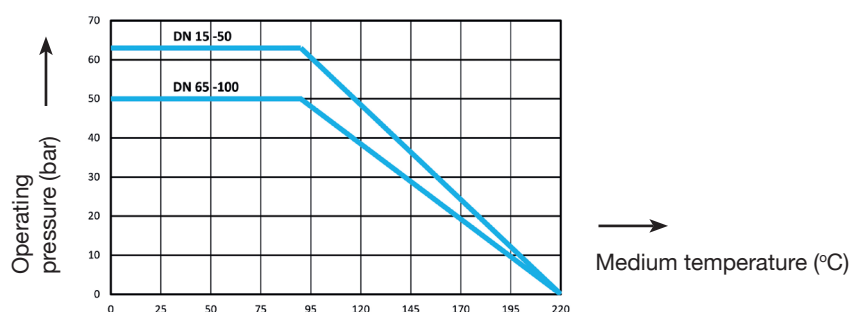
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Product features

- full passage
- Maintenance-free
- Can be optionally equipped with end position feedback, positioners and solenoid valves
- Blow-out proof spindle
- Alternatively also available with electric actuator, hand lever or gearbox



Press - Temperature Diagram



Dimension Table

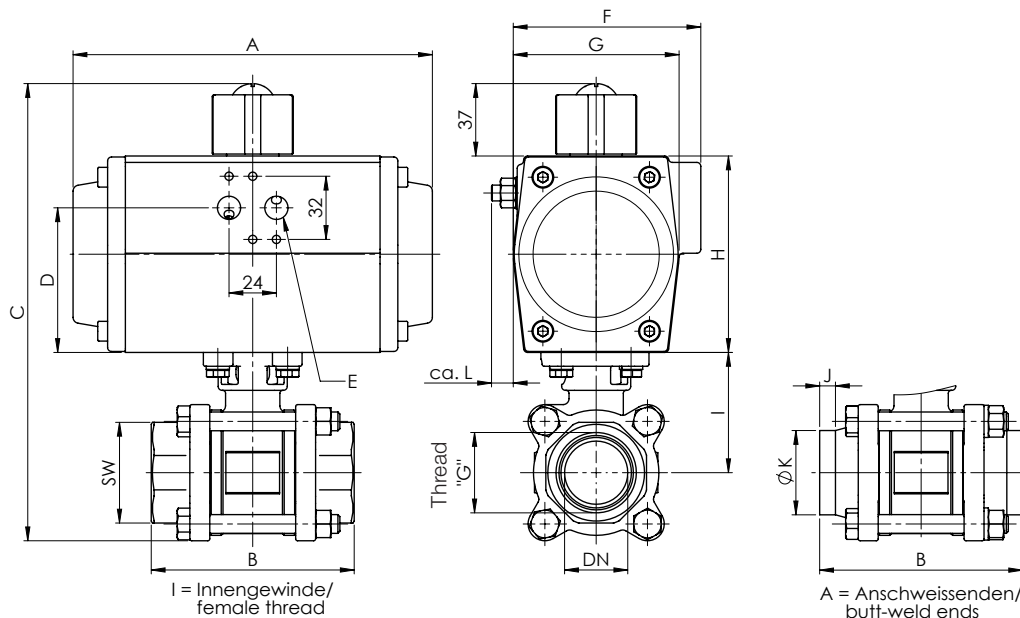
Thread G	DN	Actuator	A	B	C	D	E	F	G	H	I	J	ø K	L	SW	Gewicht (kg)
1/2"	15	032	114	66	151.5	24.5	G 1/8"	/	55	49	42	4	21.7	/	27	1.63
		040	120		162.5	24	G 1/4"	/	60.5	60				15		1.80
		052	147		174.5	48	G 1/4"	74.5	60	72				9		2.20
3/4"	20	032	114	76	159.5	24.5	G 1/8"	/	55	49	48	6	27.5	/	33.5	1.63
		040	120		170.5	24	G 1/4"	/	60.5	60				15		1.80
		052	147		182.5	48	G 1/4"	74.5	60	72				9		2.20
1/0"	25	040	120	86	182.0	24	G 1/4"	/	60.5	60	56.5	9	34	15	40	2.20
		052	147		194.0	48	G 1/4"	74.5	60	72				9		2.60
		063	165		210.0	61	G 1/4"	83	72	88				12		3.30
5/4"	32	052	147	103	204.5	48	G 1/4"	74.5	60	72	61	8	42.7	9	50	3.30
		063	165		220.5	61	G 1/4"	83	72	88				12		4.00
		075	182		232.0	73.3	G 1/4"	95	84	99.5				11		4.55
3/2"	40	063	165	119.5	242.0	61	G 1/4"	83	72	88	77.5	10	48.6	12	57	4.90
		075	182		253.5	73.3	G 1/4"	95	84	99.5				11		5.45
		083	208		263.0	80	G 1/4"	103	92	109				12		6.15
2/0"	50	063	165	131.5	257.5	61	G 1/4"	83	72	88	85	11.5	60.5	12	72	5.50
		075	182		269.0	73.3	G 1/4"	95	84	99.5				11		6.05
		083	208		278.5	80	G 1/4"	103	92	109				12		6.75
5/2"	65	092	262	164	286.0	91	G 1/4"	109.5	102	116.5	109	13	76.3	9	85	8.74
		083	208		313.5	80	G 1/4"	103	92	109				12		11.15
		092	262		321.0	91	G 1/4"	109.5	102	116.5				9		13.14
3/0"	80	105	270	183	337.5	99.5	G 1/4"	124.5	115	133	118	15	88.9	7.5	100	13.96
		125	301		359.5	127	G 1/4"	142	135	155				8.5		17.90
		092	262		340.5	91	G 1/4"	109.5	102	116.5				9		17.14
4/0"	100	105	270	236	357.0	99.5	G 1/4"	124.5	115	133	135.5	15	114.3	7.5	130	17.96
		125	301		379.0	127	G 1/4"	142	135	155				8.5		21.90
		140	395		396.0	138	G 1/4"	/	152	172				7		25.92
		105	270		401.0	99.5	G 1/4"	124.5	115	133				7.5		27.26
		125	301		423.0	127	G 1/4"	142	135	155				8.5		31.20
		140	395		440.0	138	G 1/4"	/	152	172				7		35.22

Actuator assignment, with max. differential pressure of 10 bar

Thread G	DN	GD	
		4 bar Actuators	6 bar Actuators
1/2"	15	GD-040	GD-032
3/4"	20	GD-040	GD-032
1/0"	25	GD-052	GD-040
5/4"	32	GD-063	GD-052
3/2"	40	GD-063	GD-063
2/0"	50	GD-075	GD-063
5/2"	65	GD-092	GD-083
3/0"	80	GD-105	GD-092
4/0"	100	GD-125	GD-105

Thread G	DN	GS	
		4 bar Actuators	6 bar Actuators
1/2"	15	GS-052-07	GS-052-07
3/4"	20	GS-052-08	GS-052-08
1/0"	25	GS-063-08	GS-063-08
5/4"	32	GS-075-07	GS-063-10
3/2"	40	GS-083-07	GS-075-11
2/0"	50	GS-092-07	GS-083-10
5/2"	65	GS-125-06	GS-105-09
3/0"	80	GS-140-06	GS-125-10
4/0"	100	GS-140-08	GS-140-08

Dimensioned drawing



Order details

PKI2-	1/0-	I-	025-	C-	GS-075-	12
	Connection dimension in inches	Connection: I = internal thread A = weld-on ends	Nominal diameter	Spring action: C = spring force closing A = spring force opening (not applicable for double-acting version)	Actuator designation	Spring code (not applicable for double-acting version)

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