

2/2-way automatic valve – type PKI

with pneumatic actuator actubar®

Technical data sheet



2/2-way automatic valve – type PKI

Product description



Automatic valve in stainless steel, 3-piece-design, with floating precision ball. The valve is pneumatically (double or single-acting) operated and is characterised by long service life and high operational safety.

Technical data 2/2-way ball-valve

Technical data	
Nominal size	DN15 – DN100
Connection	female thread Rp 1/2" - Rp 4" acc. to ISO 7-1 alternative: butt-weld ends acc. to EN 12627:1999
Mounting position	any orientation
Nominal pressure range	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: stainless steel AISI 316 (1.4408) ball, stem: stainless steel AISI 316 (1.4401) seal: PTFE stem seal: DN 15 – DN 50 PTFE+ FKM, DN 65 – DN 80 PTFE
Flow medium	neutral gases and fluids (other mediums upon request)
Flow direction	any direction

Technical data actuator AD/AS

Technical data	
Control pressure	2 to 8 bar
Control medium	air or neutral gases (further mediums upon request) acc. to DIN ISO 8573-1 Class 4 (min. requirement)
Ambient temperature	-20 °C to +80 °C (Standard) -20 °C to +160 °C
Actuation	pneumatic double or single-acting
End position setting	+5° to -10° adjustable in both end positions
Interfaces	acc. to EN ISO 5211 and VDI/VDE 3845
Certificates	SIL 3 by TÜV Rheinland, test basis IEC61508 Parts 1-2 and 4-7:2010

Product features

- full bore
- maintenance-free
- optional extras with limit-switch-boxes and
- blowout-secure shaft
- application also in vacuum and high flow
- alternatively also with electric actuation, manual lever or gear-driven available

Special versions

On demand.

Pressure-temperature diagram

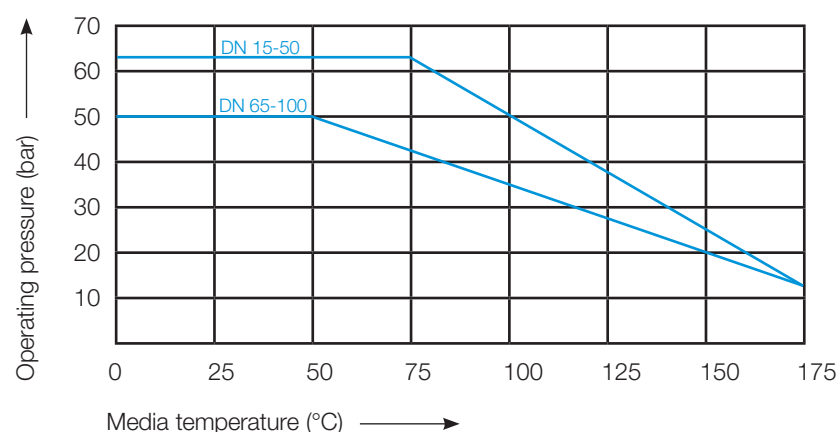


Table of dimensions

Rp	DN	Actuator	A	B	C	D	E	F	G	H	I	øJ	øK	SW	Weight (kg)
1/2"	15	001	80	70	120	22,5	G 1/8"	/	45	45	36	22	19	27	0,90
		002	136		134	27,5	G 1/8"	/	59	59					1,29
		004	144		158	24	G 1/8"	82	68	68					1,77
3/4"	20	002	136	77	127	27,5	G 1/8"	/	45	45	40	28	24	33,5	1,50
		004	144		165	24	G 1/8"	82	68	68					1,98
		006	159		181	32	G 1/8"	90	76	84					2,58
1/0"	25	002	136	92	154	27,5	G 1/8"	/	59	59	47	34	30	40	2,06
		004	144		178	24	G 1/8"	82	68	68					2,54
		006	159		194	32	G 1/8"	90	76	84					3,14
		008	173		218	31	G 1/8"	109	98	108					4,30
5/4"	32	004	144	105	186	24	G 1/8"	82	68	68	51	43	38	50	3,02
		006	159		202	32	G 1/8"	90	76	84					3,62
		008	173		226	31	G 1/8"	109	98	108					4,78
3/2"	40	006	159	120	214	32	G 1/8"	90	76	84	60	49	41,5	57	4,48
		008	173		238	31	G 1/8"	109	98	108					5,64
		011	215		238	31	G 1/8"	109	98	108					6,26
		018	213		262	35	G 1/4"	127	114	132					7,47
2/0"	50	006	159	140	233	32	G 1/8"	90	76	84	69	61	54	72	6,11
		008	173		247	31	G 1/8"	109	98	108					7,27
		011	215		247	31	G 1/8"	109	98	108					7,89
		018	213		271	35	G 1/4"	127	114	132					9,10
5/2"	65	018	213	185	332	35	G 1/4"	127	114	132	110	77	69	85	13,30
		026	281		332	35	G 1/4"	127	114	132					14,77
		037	266		361	40,5	G 1/4"	155	138	161					16,73

Table of dimensions (continuation)

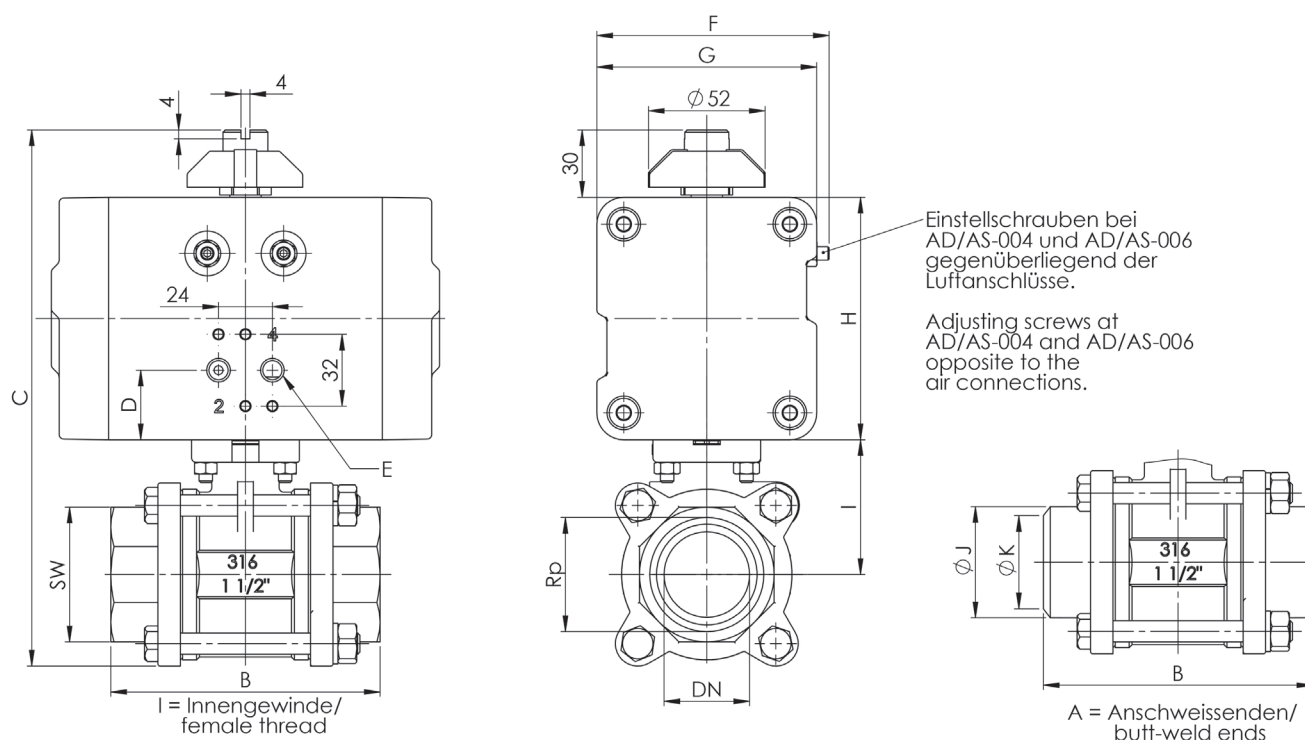
Rp	DN	Actua- tor	A	B	C	D	E	F	G	H	I	øJ	øK	SW	Weight (kg)
3/0"	80	018	213	205	347	35	G 1/4"	127	114	132	118	90	84	100	17,10
		026	281		347	35	G 1/4"	127	114	132					18,57
		037	266		376	40,5	G 1/4"	155	138	161					20,53
		050	347		376	40,5	G 1/4"	155	138	161					23,55
		076	329		415	50	G 1/4"	195	176	200					28,20
4/0"	100	026	281	240	390	35	G 1/4"	127	114	132	133	116	107	130	27,87
		037	266		419	40,5	G 1/4"	155	138	161					29,83
		050	347		419	40,5	G 1/4"	155	138	161					32,85
		076	329		458	50	G 1/4"	195	176	200					37,50

Actuator classification (for max. diff. press. of 10 bar)

AD			
Rp	DN	4 bar actuators	6 bar actuators
1/2"	15	AD-002	AD-001
3/4"	20	AD-002	AD-002
1/0"	25	AD-004	AD-002
5/4"	32	AD-004	AD-004
3/2"	40	AD-008	AD-006
2/0"	50	AD-008	AD-006
5/2"	65	AD-018	AD-018
3/0"	80	AD-026	AD-018
4/0"	100	AD-037	AD-026

AS			
Rp	DN	4 bar actuators	6 bar actuators
1/2"	15	AS-004-08	AS-004-08
3/4"	20	AS-006-06	AS-004-10
1/0"	25	AS-008-06	AS-006-10
5/4"	32	AS-008-07	AS-006-12
3/2"	40	AS-018-06	AS-008-11
2/0"	50	AS-018-08	AS-011-12
3/2"	65	AS-037-07	AS-026-12
3/0"	80	AS-076-05	AS-037-10
4/0"	100	AS-076-07	AS-050-11

Dimensions



Ordering code

PKI-	1/0-	I-	025-	C-	AS 008-	07
	Connecting size in inch	Connection: I = female thread A = butt-weld ends	Nominal size	Spring effect: C = spring force closing A = spring force opening (details not applicable by double-acting version)	Actuator identification	Spring-code (details not applicable by double-acting version)

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