

2/2-way automatic valve – type PKN

with pneumatic actuator actubar®

Technical data sheet



Product description



Automatic valve in stainless steel, 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 – DN50
Connection	female thread Rp 1/2" to Rp 2" acc. to ISO 7-1
Mounting position	any orientation
Nominal pressure	PN 100
Operating pressure	see pressure-temperature diagram
Temperature range	-20 °C to 180 °C
Materials	casing: stainless steel AISI 316 (1.4408) ball: stainless steel AISI 316 (1.4401) stem: stainless steel AISI 316 (1.4401) ball seal: PTFE stem seal: PTFE+ FKM
Flow material	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
- 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

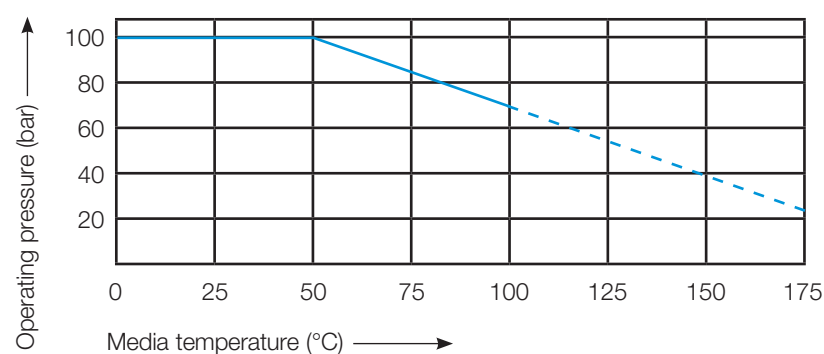


Table of dimensions

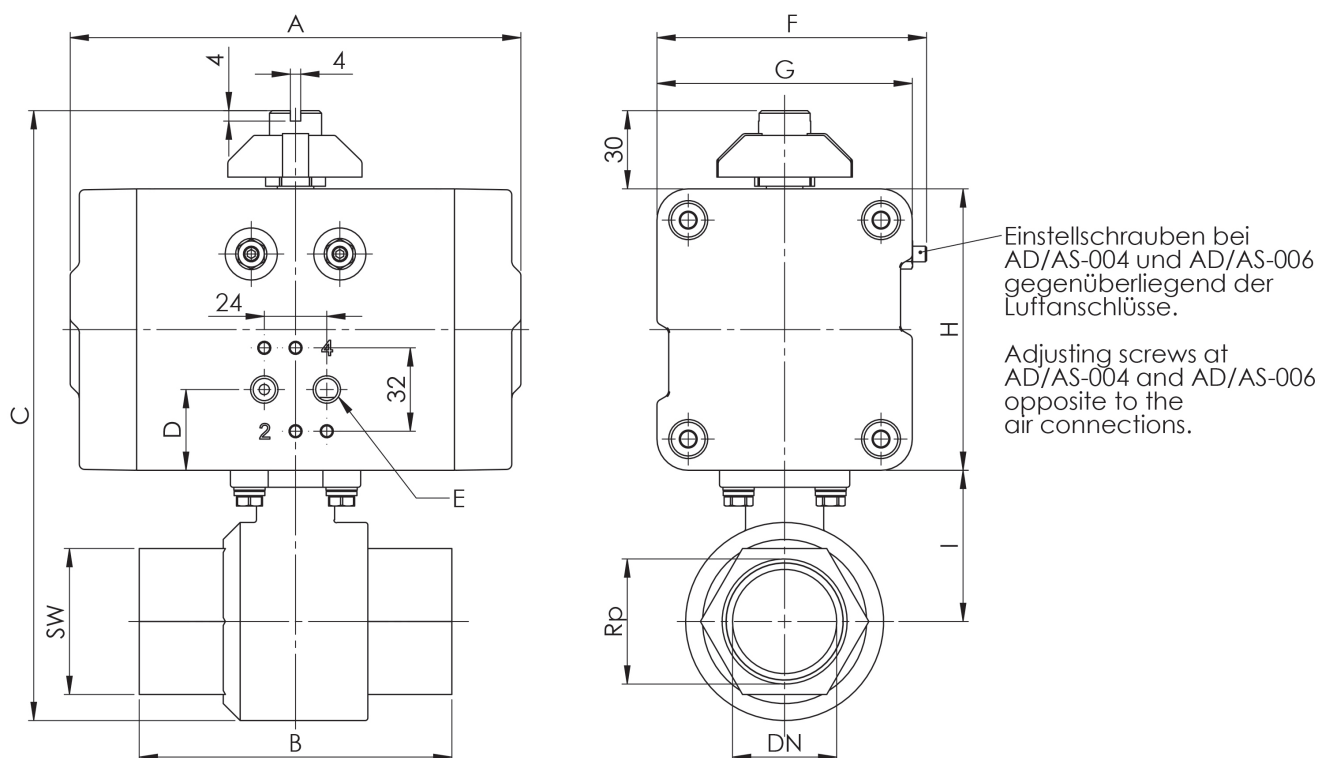
Rp	DN	Antrieb	A	B	C	D	E	F	G	H	I	SW	Gewicht (kg)
1/2"	15	001	80	60	113	22,5	G 1/8"	/	45	45	36	26	0,66
		002	136		127	27,5	G 1/8"	/	59	59			1,05
		004	144		151	24	G 1/8"	82	68	68			1,53
3/4"	20	002	136	70	135	27,5	G 1/8"	/	59	59	39,5	32	1,19
		004	144		159	24	G 1/8"	82	68	68			1,67
		006	159		175	32	G 1/8"	90	76	84			2,27
1/0"	25	004	144	90	168	24	G 1/8"	82	68	68	44	41	2,05
		006	159		184	32	G 1/8"	90	76	84			2,65
		008	173		208	31	G 1/8"	109	98	108			3,81
5/4"	32	004	144	110	181	24	G 1/8"	82	68	68	51	50	2,53
		006	159		197	32	G 1/8"	90	76	84			3,13
		008	173		221	31	G 1/8"	109	98	108			4,29
		011	215		221	31	G 1/8"	109	98	108			4,91
3/2"	40	006	159	120	210	32	G 1/8"	90	76	84	58	56	3,75
		008	173		234	31	G 1/8"	109	98	108			4,91
		011	215		234	31	G 1/8"	109	98	108			5,53
		018	213		258	35	G 1/4"	127	114	132			6,74
2/0"	50	006	159	140	230	32	G 1/8"	90	76	84	68	69	5,41
		008	173		254	31	G 1/8"	109	98	108			6,57
		011	215		254	31	G 1/8"	109	98	108			7,19
		018	213		278	35	G 1/4"	127	114	132			8,40

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-004
5/4"	32	AD-006	AD-004
3/2"	40	AD-008	AD-006
2/0"	50	AD-011	AD-006

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-008-07	AS-006-10
5/4"	32	AS-011-08	AS-008-11
3/2"	40	AS-018-07	AS-011-10
2/0"	50	AS-018-08	AS-011-12

Dimensions



Ordering code

PKN-	1/0-	025-	C-	AS 008-	08
	Connecting size in inch	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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