3/2-way automatic valve – type PKT

with pneumatic actuator actubar®

Technical data sheet

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Product description

Automatic 3-way 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 3/2-way ball valve

	Technical data
Nominal size	DN12 – DN38
Connection	female thread Rp 1/2“ to Rp 2“ acc. to ISO 7-1
Mounting position	any orientation
Nominal pressure range	DN 12 – 20: PN 63 DN 25 – 38: PN 50
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

- reduced bore
- 4-fold support of the ball
- maintenance-free
- optionally extras with limit-switch-boxes and solenoid valves, positioners
- blow-out secure shaft
- application also in vacuum and high flow speeds
- alternatively also with electric actuation, manual lever or gear-driven available

Special versions

On demand.

Pressure-temperature diagram

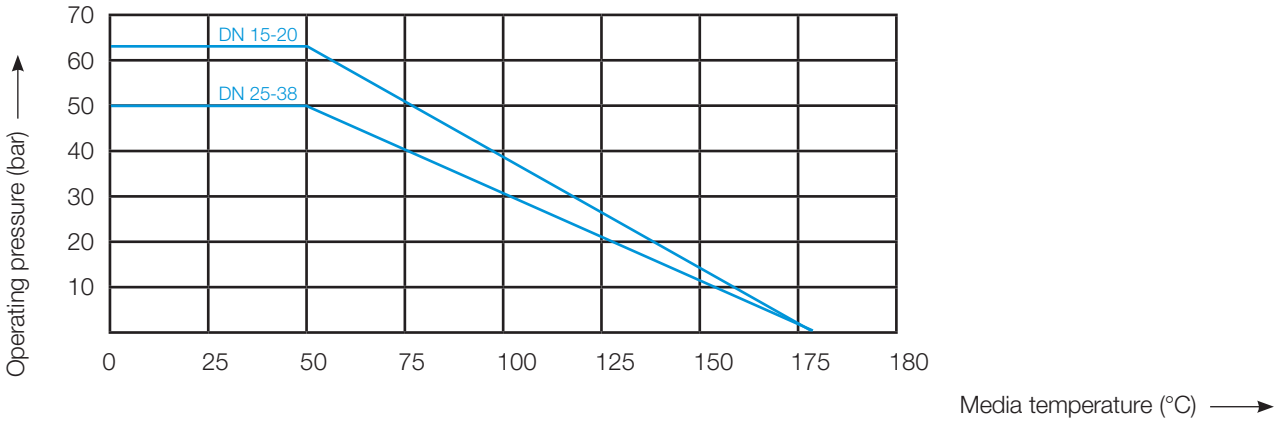


Table of dimensions

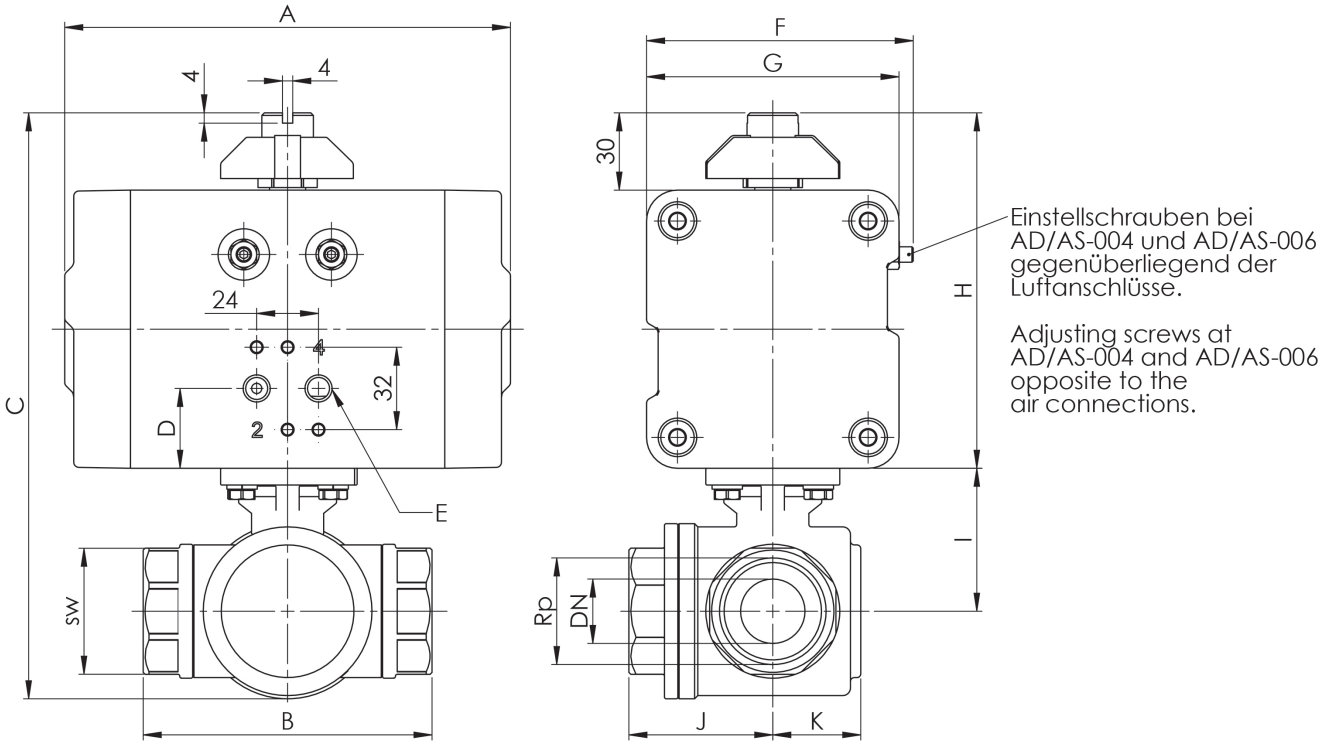
Rp	DN	Antrieb	A	B	C	D	E	F	G	H	I	J	K	SW	Gewicht (kg)
1/2“	12	002	136	72	133	27,5	G 1/8“	/	59	59	38,5	36	20	28	1,37
		004	144		157	24	G 1/8“	82	68	68					1,85
		006	159		173	32	G 1/8“	90	76	84					2,45
3/4“	15	002	136	83	138	28	G 1/8“	/	59	59	41	41,5	23	32,5	1,58
		004	144		162	24	G 1/8“	82	68	68					2,06
		006	159		178	32	G 1/8“	90	76	84					2,66
		008	173		202	31	G 1/8“	109	98	108					3,82
1“	20	004	144	99	175	24	G 1/8“	82	68	68	49	49,5	28	41	2,67
		006	159		191	32	G 1/8“	90	76	84					3,27
		008	173		215	31	G 1/8“	109	98	108					4,43
5/4“	25	006	159	112	203	32	G 1/8“	90	76	84	55	56	34,5	49,5	3,99
		008	173		227	31	G 1/8“	109	98	108					5,15
		011	215		227	31	G 1/8“	109	98	108					5,77
		018	213		251	35	G 1/4“	127	114	132					6,98
3/2“	32	011	215	125	240	31	G 1/8“	109	98	108	63	62,5	37,5	56,5	6,87
		018	213		264	35	G 1/4“	127	114	132					8,08
		026	281		264	35	G 1/4“	127	114	132					9,55
		037	266		293	40,5	G 1/4“	155	138	161					11,51
2/0“	38	011	215	149	260	31	G 1/8“	109	98	108	74	74,5	48	69,5	8,83
		018	213		284	35	G 1/4“	127	114	132					10,04
		026	281		284	35	G 1/4“	127	114	132					11,51
		037	266		313	40,5	G 1/4“	155	138	161					13,47

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

AD			
Rp	DN	4 bar actuators	6 bar actuators
1/2“	12	AD-004	AD-002
3/4“	15	AD-004	AD-002
1/0“	20	AD-004	AD-004
5/4“	25	AD-008	AD-006
3/2“	32	AD-018	AD-011
2/0“	38	AD-018	AD-011

AS			
Rp	DN	4 bar actuators	6 bar actuators
1/2“	12	AS-006-08	AS-004-10
3/4“	15	AS-008-06	AS-006-10
1/0“	20	AS-008-07	AS-006-12
5/4“	25	AS-018-07	AS-011-11
3/2“	32	AS-037-06	AS-026-10
2/0“	38	AS-037-07	AS-026-11

Dimensions



Ordering code

PKT-	1/0-	T2-	020-	AS 008-	07
	Connecting size in inch	Switch position (see diagram right)	Nominal size	Actuator identification	Spring-code (details not applicable by double-acting version)

Switching positions

ball bore		T				L
Position	0°					
	90°					
Switching positions		T1	T2	T3	T4	L4

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