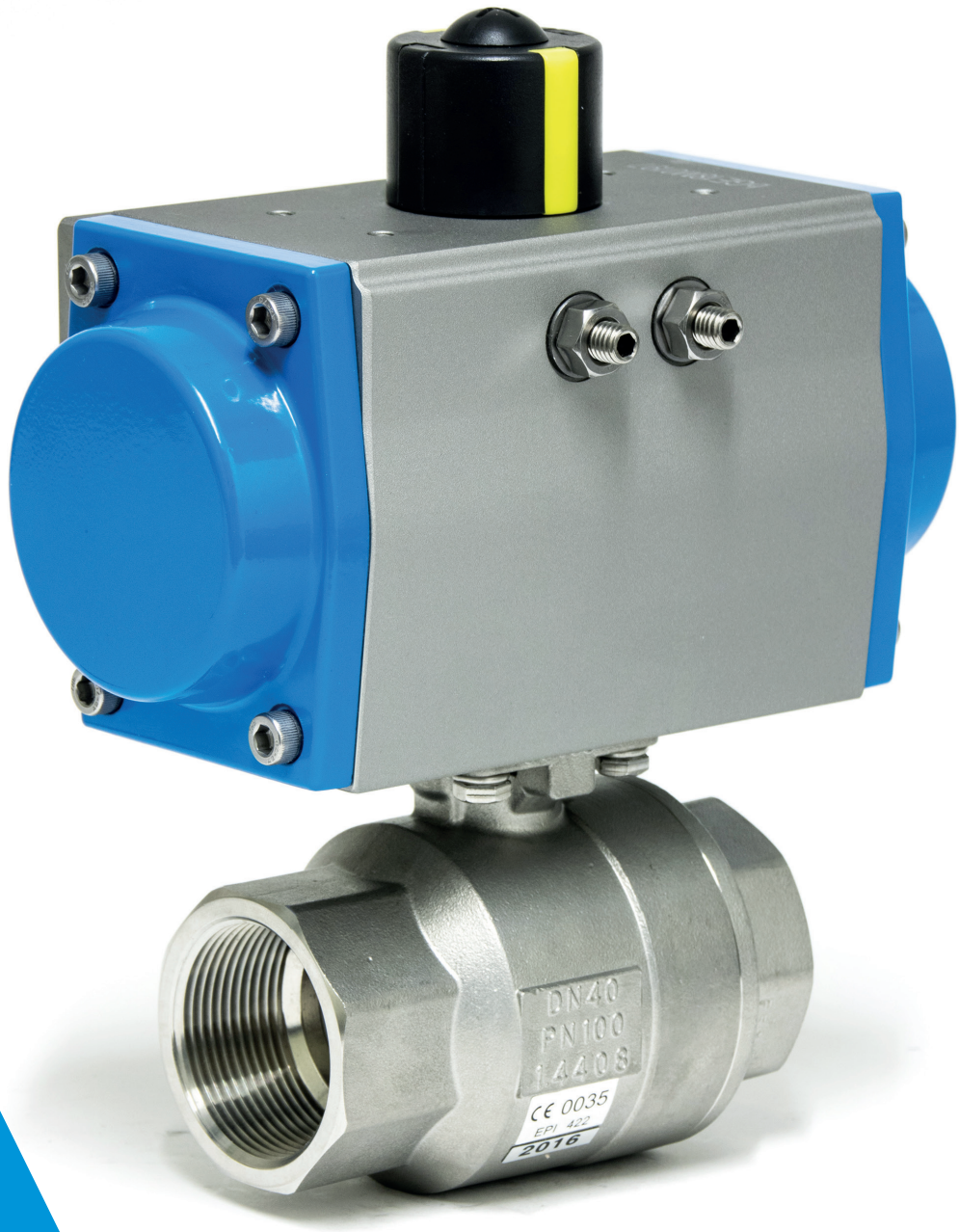
Type PKN

2/2-way automatic valve

Technical data sheet



www.bar-gmbh.de

bar
A WATTS Brand

Product description

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

Technical data of 2/2-way ball valve

	Technical data
Nominal size	DN15 – DN50
Connection type	Inside thread Rp 1/2“ to Rp 2“ acc. to ISO 7-1
Mounting position	any
Nominal pressure rating	PN 100
Operating pressure	See Pressure-Temperature diagram
Temperature range	-20 °C to 180 °C
Materials	Housing: Stainless steel AISI 316 (1.4408) Ball: Stainless steel AISI 316 (1.4401) Switching shaft: Stainless steel AISI 316 (1.4401) Sealing bowl: PTFE Switching shaft seal: PTFE + FKM
Flow media	Neutral gases and liquids (other media on request)
Flow direction	any

Technical data of drive GD/GS

	Technical data
Control pressure	2 to 8 bar
Control medium	Air or neutral gases (other media on request) Acc. to DIN ISO 8573-1 class 4 (minimum requirement)
Ambient temperature	-20 °C to +80 °C (standard) -20 °C to +160 °C
Actuation	Pneumatically double- or single-acting
End position adjustment	+5° to -5° adjustable in both end positions
Interfaces	Acc. to EN ISO 5211 and VDI/VDE 3845

Product features

- Full passage
- Maintenance-free
- Optionally available with end position feedback, position controllers and solenoid valves
- Anti-blowout spindle
- Usage also with vacuum and high flow velocities
- Alternatively also can be delivered with electric rotary actuator, hand lever or gearbox

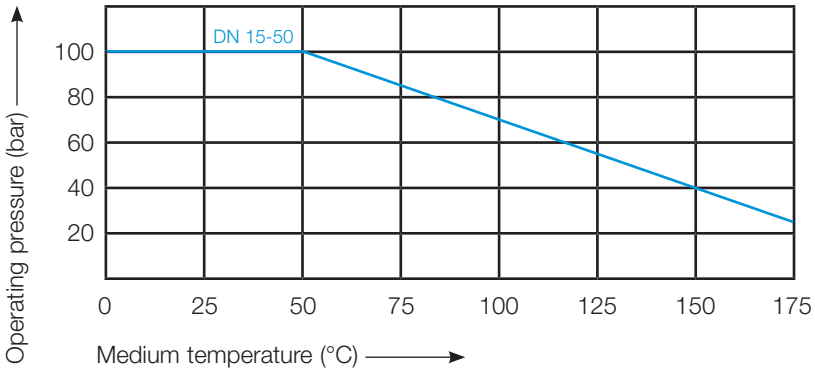
End position adjustment

Solenoid valve interface

Special designs

Please contact us.

Pressure-Temperature diagram



Measurement chart

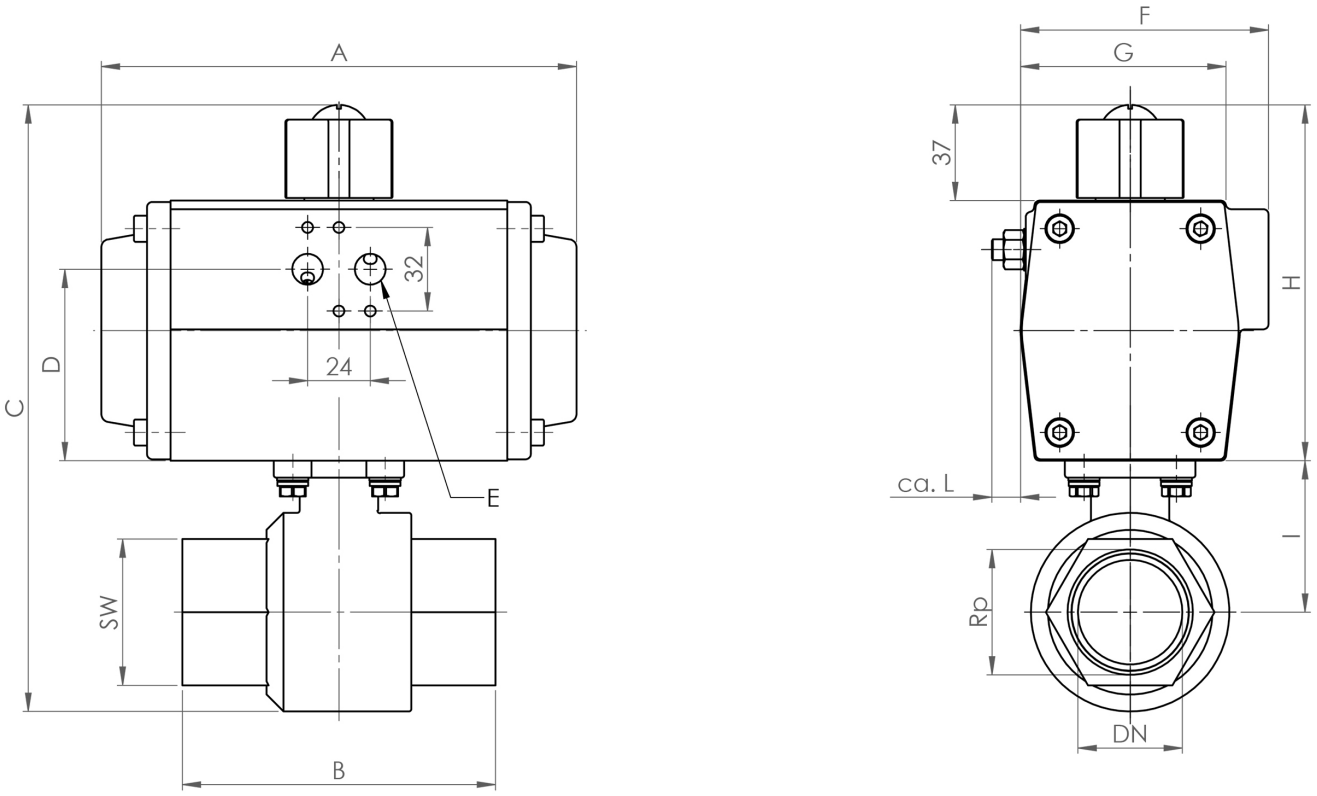
Rp	DN	Actuator	A	B	C	D	E	F	G	H	I	L	SW	Weight (kg)
1/2“	12	040	120	60	168.0	24	G 1/4“	/	60.5	60	36	15	26	1.22
		052	147		181.0	48	G 1/4“	74.5	60	72		9		1.62
		063	165		201.0	61	G 1/4“	83	72	88		12		2.32
3/4“	20	052	147	70	188.0	48	G 1/4“	74.5	60	72	39.5	9	32	1.76
		063	165		208.0	61	G 1/4“	83	72	88		12		2.46
		075	182		220.0	73	G 1/4“	95	84	99.5		11		3.401
1/0“	25	052	147	90	197.0	48	G 1/4“	74.5	60	72	44	9	41	2.14
		063	165		213.0	61	G 1/4“	83	72	88		12		2.84
		075	182		225.0	73	G 1/4“	95	84	99.5		11		3.39
		083	208		234.0	80	G 1/4“	103	92	109		12		4.09
5/4“	32	063	165	110	227.0	61	G 1/4“	83	72	88	51	12	50	3.32
		075	182		239.0	73	G 1/4“	95	84	99.5		11		3.87
		083	208		248.0	80	G 1/4“	103	92	109		12		4.57
		092	262		256.0	91	G 1/4“	109.5	102	116.5		9		6.56
3/2“	40	075	182	120	253.0	73	G 1/4“	95	84	99.5	58	11	56	4.49
		083	208		262.0	80	G 1/4“	103	92	109		12		5.19
		092	262		270.0	91	G 1/4“	109.5	102	116.5		9		7.18
		105	270		291.0	99.5	G 1/4“	124.5	115	133		7.5		8.00
2/0“	50	075	182	140	273.0	73	G 1/4“	95	84	99.5	68	11	69	6.15
		083	208		282.0	80	G 1/4“	103	92	109		12		6.85
		105	270		306.0	99.5	G 1/4“	124.5	115	133		7.5		8.84
		125	301		328.0	127	G 1/4“	142	135	155		8.5		9.66

Actuator assignment

GD			
Rp	DN	4 bar actuators	6 bar actuators
1/2“	15	GD-052	GD-040
3/4“	20	GD-052	GD-052
1/0“	25	GD-063	GD-052
5/4“	32	GD-075	GD-063
3/2“	40	GD-083	GD-075
2/0“	50	GD-083	GD-075

GS			
Rp	DN	4 bar actuators	6 bar actuators
1/2“	15	GS-063-08	GS-063-08
3/4“	20	GS-075-08	GS-063-12
1/0“	25	GS-083-08	GS-075-12
5/4“	32	GS-092-08	GS-083-10
3/2“	40	GS-105-08	GS-092-12
2/0“	50	GS-125-08	GS-105-12

Dimensional drawing



Order details

PKN-	1/0-	025-	C	GS-075-	12
	Connection dimension in inches	Nominal size	Spring effect: C = Spring force closing A = Spring force opening (not applicable for double-acting design)	Actuator description	Spring code (not applicable for double-acting design)

The descriptions and images contained in this product data sheet are for informational purposes only and are not guaranteed.
Watts Industries reserves the right to make technical and constructive changes to its products without prior notice.
Warranty: All purchases and sales contracts expressly require the Purchaser to accept the General Terms and Conditions of Sale and Delivery
which can be found on www.wattswater.de/agb . Watts hereby objects to any deviating or additional condition to the General Terms and Conditions of Sale and Delivery
which has been communicated to the Purchaser in any form without the written consent of Watts representative.

bar

A **WATTS** *Brand*

bar pneumatische Steuerungssysteme GmbH
Auf der Hohl 1 • 53547 Dattenberg • Germany
Tel. +49 (0)2644 96070 • Fax +49 (0)2644 960735
bar-info@wattswater.com • www.bar-gmbh.de

© 2018 Watts