G 3/8, G 1/2, G 3/4, G 1

Advantages/Benefits

- **Normally closed or open**
- **Body materials: Brass, stainless steel**
- **Double spindle seal**
- **Compact Design**

Design/Function

This externally piloted 2/2 valve is available in normally-open and normally-closed functions.

In circuit function A, it is closed by spring action when depressurised. It opens if a control pressure is applied. In circuit function B, normally open, the functioning principle is reversed.

Applications

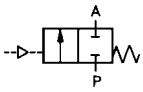
- Neutral gases and liquids
- Also suitable for fluids at higher temperatures
- Food processing
- Process technology
- Medical technology
- Chemical cleaning and washing systems
- Hazardous environments

bürkert
Easy Fluid Control Systems

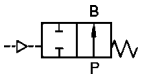
Technical Data

Circuit Functions

A 2/2-way valve,
normally closed by spring action.



B 2/2-way valve,
normally open by spring action.



Body Material

Body:	Brass or stainless steel
Valve internals:	1.4021 and 1.4104
Actuator:	epoxy resin

Specifications

Orifice DN [mm]	Kv-Value Water [m³/h]	Pressure Range WW A [bar]	WW A Reinforced Spring [bar]	WW B [bar]	Weight [1] [kg]
10	1,0	0- 5	0-10	0-10	0,5
12	2,1	0- 3,5	0- 6	0-10	0,6
20	6,5	-	0- 1,5	0- 1,5	1,0
25	10,0	-	0- 1	0- 1	1,4
Steam version (seal materials PTFE/EPDM andPTFE/FPM)					
10	1.0	-	0-10	-	0.5
12	2.1	-	0- 6	-	0.6

[1] iWith integrally mounted pilot valve Type 301 the weight is increased per 175 g., [2] Also suitable for vacuum.

The required control pressures can be found in the diagrams.
All pressures quoted are gauge pressures with respect to the prevailing atmospheric pressure.

Operating Data (Valve)

Seal Materials/Fluids Handled/Temp.- Range

NBR — Neutral fluids, e.g. compressed air, town gas, water, hydraulic oils -10 to +90 °C

EPDM — Oil- and fat-free fluids, e.g. hot water, alkaline washing and bleaching lyes -10 to +100 °C

FPM — Fluids, NBR and EPDM are not suitable for, e.g. hot air, oxygen, per-solutions hot oils, freons -10 to + 100 °C

PTFE/EPDM[3] — Oil- and fat-free fluids, e.g. hot water and steam -10 to +140 °C

PTFE/FPM[3] — Hot oils, hydrocarbons, aromatics and steam -10 to +140 °C

[3] PTFE with EPDM- or FPM-O-rings.
For more detailed information see resistance chart (Leaflet-No. 1896009).

Max. ambient temperature	90 °C, with integrally mounted pilot valve 55 °C
Max. viscosity	100 mm²/s

Operating Data (Actuator)

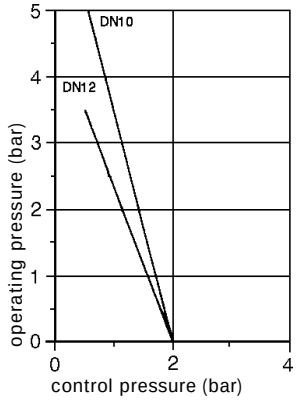
Control fluid	Neutral gases and liquids, esp. air, water, hydraulic liquids, up to max. 90 °C.

Installation / Accessories

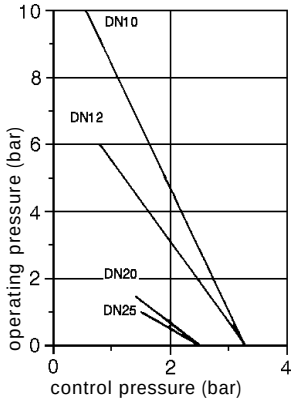
Installation	as required
Port connection	G 3/8, 1/2, 3/4, 1

Diagrams: Operating Pressure - Control Pressure

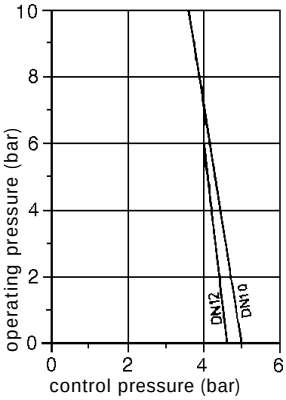
Circuit Function A



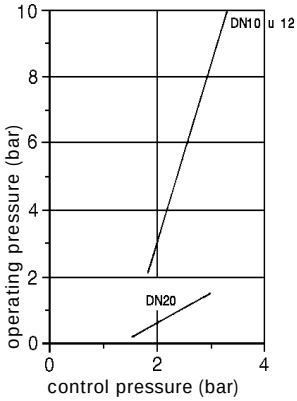
Circuit Function A, Reinforced Spring



Circuit Function A, with PTFE/... Seal Material

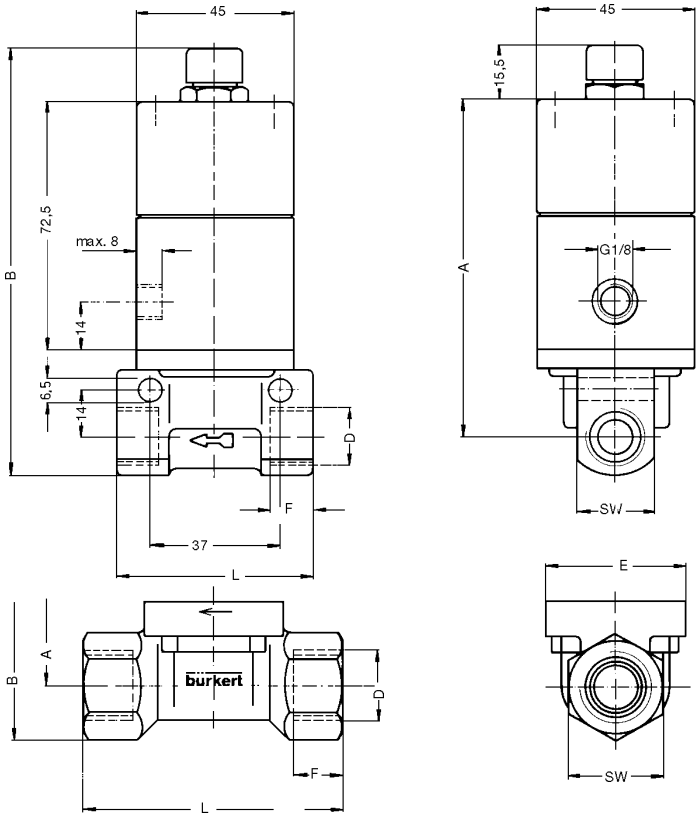


Circuit Function B



Dimensions in mm

Circuit Function A



Circuit function B:
Replace exhaust muffler with blanking plug.
Threaded connection for control pressure located in the upper part of the actuator.

Body DN 10

Body DN 12

Orifice [mm]	D	A	B	E	F	L	SW
10	G 3/8	97,5	124	45	12	56	22
12	G 1/2	96,5	127,5	40	14	74,5	27
20	G 3/4	109,5	141	60	16	100	32
25	G 1	114	150	70	18	115	41

Ordering Chart (Other Versions on Request)

Circuit Function	Orifice DN [mm]	Flow Rate Water Kv-Value [m³/h]	Port Connection (ISO 228)	Pressure Range [bar]	Body Material	Seal Material	Weight [kg]	Order-No.
A	10,0	1,0	G 3/8	0- 5	Brass	EPDM	0,5	026 059 V
				0-10	Brass	EPDM	0,5	027 400 W [1]
				0- 5	Brass	NBR	0,5	026 287 P
				0-10	Brass	NBR	0,5	027 643 U [1]
				0- 5	Brass	FPM	0,5	026 257 Y
				0-10	Brass	FPM	0,5	026 459 T [1]
				0-10	Brass	PTFE/FPM[2]	0,5	026 457 R [1]
	12,0	2,1	G 1/2	0- 3,5	Brass	EPDM	0,6	027 545 J
				0- 6	Brass	EPDM	0,6	026 079 Z [1]
				0- 3,5	Brass	NBR	0,6	027 734 P
				0- 6	Brass	NBR	0,6	027 991 A [1]
				0- 3,5	Brass	FPM	0,6	026 088 K
				0- 6	Brass	FPM	0,6	027 926 G [1]
				0- 6	Brass	PTFE/EPDM[2]	0,6	026 200 C [1]
				0- 6	Brass	PTFE/FPM[2]	0,6	028 004 Z [1]
				0- 6	Stainless	EPDM	0,6	028 080 Z [1]
				0- 6	Stainless	PTFE/FPM[2]	0,6	027 557 N [1]
	20,0	6,5	G 3/4	0- 1,5	Brass	EPDM	1,0	028 211 U [1]
				0- 1,5	Brass	NBR	1,0	028 072 U [1]
				0- 1,5	Brass	FPM	1,0	028 046 S [1]
	25,0	10,0	G 1	0- 1	Brass	EPDM	1,4	029 106 V [1]
				0- 1	Brass	NBR	1,4	028 071 T [1]
				0- 1	Brass	FPM	1,4	028 410 Y [1]
B	10,0	1,0	G 3/8	0-10	Brass	EPDM	0,5	026 812 D
				0-10	Brass	NBR	0,5	026 290 W
				0-10	Brass	FPM	0,5	027 891 E
	12,0	2,1	G 1/2	0-10	Brass	EPDM	0,6	027 988 P
				0-10	Brass	NBR	0,6	026 298 S
				0-10	Brass	FPM	0,6	026 715 K
	20,0	6,5	G 3/4	0- 1,5	Brass	EPDM	1,0	028 557 X
				0- 1,5	Brass	NBR	1,0	027 639 Y
				0- 1,5	Brass	FPM	1,0	027 773 W

[1] With reinforced sping
[2] PTFE/... with EPDM- or FPM-0-ring