- **Port size: DN 15 ... 50, G1/2 ... 2, (ISO G/NPT)**
- **Large size drain or shut-off valve**
- **High flow rate**
- **Suitable for contaminated process fluids**
- **Damped closing (valves closes against flow direction)**
- **Suitable for vacuum up to max. 90%**
- **Steel operating for higher operating pressure**
- **Wide temperature range**
- **Shock and vibration tested to EN 61373, Category 1, class A and B**

EN 61373

+180°C (+356°F)

-10°C (+14°F)

Technical features

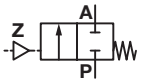
Medium:
Neutral gases and liquids
Pilot fluid:
Neutral gases max. +80°C (+176°F)
Switching function:
Normally closed
Operation:
Pressure actuated by external fluid
Mounting position:
Optional

Flow direction:
Determined
Port size:
G1/2, G3/4, G1, G1 1/4, G1 1/2, G2 1/2 NPT, 3/4 NPT, 1 NPT, 1 1/4 NPT, 1 1/2 NPT, 2 NPT
Pilot connection:
G1/4 res. 1/4 NPT
Operating pressure:
See table
Pilot pressure:
3,8 ... 8 bar (55 ... 116 psi)

Fluid temperature:
–10° ... +180°C (+14° ... +356°F)
Ambient temperature:
–10° ... +60°C (+14° ... +140°F)
Storage temperature:
-40°C (-40°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

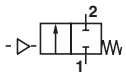
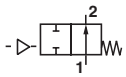
Material:
Process fluid characteristics:
Body: Dezincification Brass (CW617N)
Seat seal: PTFE
Internal parts: Brass, Stainless steel,
Spindle sealing: PTFE / FPM, self-adjustable
Pilot fluid characzeristics:
Body: Stainless steel, Aluminium
Bottom: WEMA–Kor, coated
Seals: NBR
Internal parts: Coated steel

Technical data - standard models

Symbol	Port size	Orifice (mm)	Actuator ø (mm)	Flow kv value *1) (m^3/h)	Operating pressure *2) (bar)	Weight (kg) *3)	Model *3)
	G1/2	15	70	4,8	0 ... 16	1,4	8218200.0000.00000
	1/2 NPT	15	70	4,8	0 ... 16	1,4	8219200.0000.00000
	G3/4	20	70	10	0 ... 10	1,5	8218300.0000.00000
	3/4 NPT	20	70	10	0 ... 10	1,5	8219300.0000.00000
	G1	25	70	14	0 ... 10	1,8	8218400.0000.00000
	1 NPT	25	70	14	0 ... 10	1,8	8219400.0000.00000
	G1 1/4	32	70	23	0 ... 7	2,4	8218500.0000.00000
	1 1/4 NPT	32	70	23	0 ... 7	2,4	8219500.0000.00000
	G1 1/2	40	70	30	0 ... 4,5	2,7	8218600.0000.00000
	1 1/2 NPT	40	70	30	0 ... 4,5	2,7	8219600.0000.00000
	G2	50	70	37	0 ... 3	3,9	8218700.0000.00000
	2 NPT	50	70	37	0 ... 3	3,9	8219700.0000.00000
	G1 1/4	32	125	27	0 ... 16	5,3	8228500.0000.00000
	1 1/4 NPT	32	125	27	0 ... 16	5,3	8229500.0000.00000
	G1 1/2	40	125	37	0 ... 10	5,5	8228600.0000.00000
	1 1/2 NPT	40	125	37	0 ... 10	5,5	8229600.0000.00000
	G2	50	125	53	0 ... 10	7,7	8228700.0000.00000
	2 NPT	50	125	53	0 ... 10	7,7	8229700.0000.00000

*1) Cv-value (US) ≈ kv value x 1,2
*2) For gases and liquid fluids up to 600 mm^2/s (cSt)
*3) Without pilot valve

Special applications

Symbol	Application	Port size	Flow kv value (m3/h)	Operating pressure (bar)	Pilot pressure (bar)	Fluid temperature	Ambient / Pilot temperature	Sealing	Weight (kg)	Model
	Reduced pilot pressure	G1/2	3,8	0 … 5	1,5 … 8	-10 ...+180°C	-10 ...+60°C	PTFE	1,2	8496243.0000.00000
	Tank drain valve	G1	15	0 … 10	3,5 … 8	-10 ...+90°C	-10 ...+60°C	PTFE	1,7	8495584.0000.00000
	Tank drain valve	G1 1/2	30	0 … 10	3,5 … 8	-10 ...+90°C	-10 ...+60°C	PTFE	5,7	8495585.0000.00000
	Normally open valve	G1	16	0 … 10	1 … 6	-10 ...+200°C	-30 ...+60°C	PTFE	2	8496088.0000.00000

Option selector

82★★★★★.0000.00000

Actuator	Substitute
ø 70	1
ø 125	2
Thread form	**Substitute**
ISO G	8
NPT	9
Port size	**Substitute**
1/2"	2
3/4"	3
1"	4
1 1/4"	5
1 1/2"	6
2"	7

Valve options	Substitute
Normally closed (NO), Standard	00
Normally open (NO), closes with pilot pressur and opens with spring force (pilot pressure 1 ... 6 bar)	01
Electrical position indicator with 2 micro-switches protection class IP 67, LED, 2 m cabel LifYY 2 x 0,25 qmm Type: NAMUR DIN EN 60947-5-6	23
Optical position indicator	52
Fluid temperature max. 200°C	59

Notes
for 3/2-way pilot valve 84660 / 84680

Material	Body Aluminium
Pilot fluid temperature	max. +60°C
Pilot pressure	1 ... 10 bar
Standard voltages	24 V d.c., 24 V a.c., 230 V a.c.

Electrical Data
for 3/2-way pilot valve 84660 / 84680

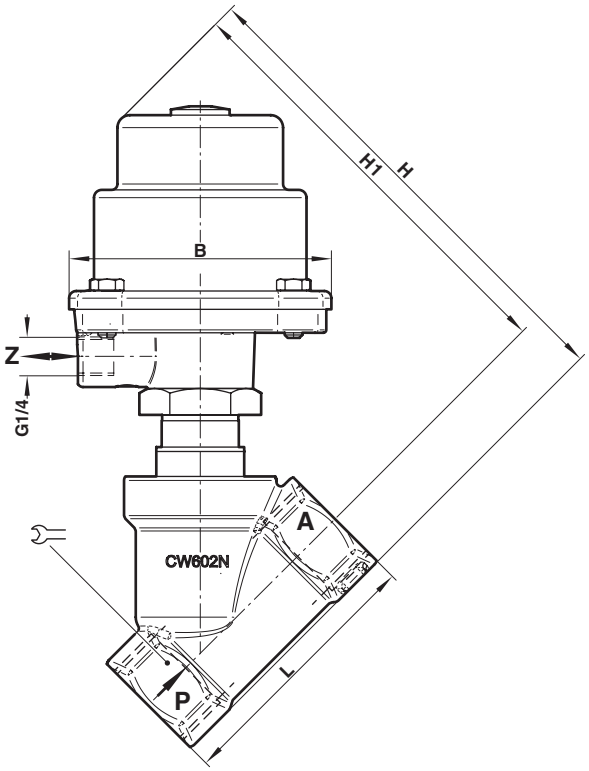
Design acc. to	DIN VDE 0580
Voltage range	±10%
Duty cycle	100% ED
Protection class	EN 60529 IP65 with mounted socket
Socket	Form A acc. to DIN EN 175301-803 (included)
Technical data	See publication N/en 5.8.640

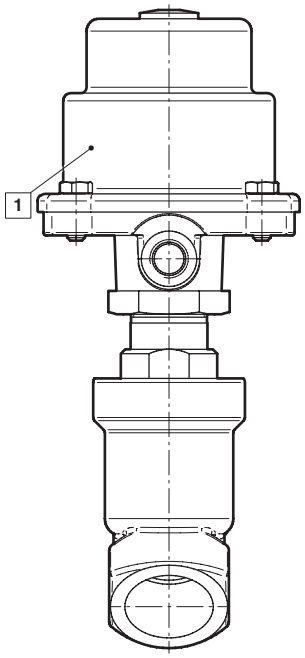
Further versions on request!

Dimensions

G1/2 ... 2
1/2 ... 2 NPT

Dimensions in mm
Projection/First angle





1 Actuator may be rotated 360°

Port size	Actuator ø	B	H	H1	L		Model
G1/2	70	89,5	154	140,5	65	27	8218200.0000.00000
1/2 NPT	70	89,5	154	140,5	65	27	8219200.0000.00000
G3/4	70	89,5	160	144	75	32	8218300.0000.00000
3/4 NPT	70	89,5	160	144	75	32	8219300.0000.00000
G1	70	89,5	171	150,5	90	41	8218400.0000.00000
1 NPT	70	89,5	171	150,5	90	41	8219400.0000.00000
G1 1/4	70	89,5	186	161	110	50	8218500.0000.00000
1 1/4 NPT	70	89,5	186	161	110	50	8219500.0000.00000
G1 1/2	70	89,5	190	162,5	120	55	8218600.0000.00000
1 1/2 NPT	70	89,5	190	162,5	120	55	8219600.0000.00000
G2	70	89,5	206	171	150	70	8218700.0000.00000
2 NPT	70	89,5	206	171	150	70	8219700.0000.00000
G1 1/4	125	163	250	225	110	50	8228500.0000.00000
1 1/4 NPT	125	163	250	225	110	50	8229500.0000.00000
G1 1/2	125	163	255	227,5	120	55	8228600.0000.00000
1 1/2 NPT	125	163	255	227,5	120	55	8229600.0000.00000
G2	125	163	270	235	150	70	8228700.0000.00000
2 NPT	125	163	270	235	150	70	8229700.0000.00000

Warning

These products are intended for use in industrial compressed air and rail transport systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«**.
Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI BUSCHJOST.
Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.
System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.
System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.