






## Piston valve, 3/2-way, servo-assisted

- Servo-assisted piston valve from DN8 to DN40
- Increased operational safety with pivoted armature technology
- Service-friendly manual override
- Energy-saving “Kick and Drop” or pulse coils
- Explosion-proof variants available on request

Product variants described in the data sheet may differ from the product presentation and description.

### Can be combined with

	<b>Type 2518</b> Cable Plug DIN EN 175301-803 - Form A	▶
	<b>Type 2516</b> Cable plug DIN EN 175301-803 - connector shape C	▶
	<b>Type 1087</b> Timer	▶

### Type description

The valve 6430 is a servo-assisted 3/2-way piston valve. If the valve is not supplied with auxiliary pilot air, a minimum differential pressure is required for the function.

#### Variants:

- For neutral liquids and gases in the pressure range 1-16 bar in the function NC and NO.
  - For technical vacuums up to 3 bar in the function NC and NO.
  - With auxiliary pilot air for vacuums up to 8 bar in the function NC and NO.
- All variants are available as an impulse version to secure the switching position even in the event of power interruptions. The Type 6430 is equipped with a manual override for start-up or manual operation (exception: impulse version).

To reduce electrical power consumption during operation, coils with integrated “Kick and Drop” (KD) electronics featuring double coil technology are available. A maintenance-free, media-separated 3/2-way pivoted armature valve Type 0331 is used as a pilot valve. In combination with a plug to DIN EN 175301 – 803 Form A, the valves satisfy degree of protection IP65.

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## 1. General technical data

Product properties	
<b>Material</b>	
Body	Brass (DN8...DN20), gunmetal (DN25...DN40)
Coil	Epoxy
Seal	NBR, PUR, FKM, EPDM (on request)
Orifice	DN8, DN12, DN20, DN25, DN40
(Thermal) Insulation class for coil	H
<b>Electrical data</b>	
Voltage tolerance	± 10 %
Duty cycle	Continuous rating 100 % ED (Unless otherwise specified on the type plate)
Protection class	IP65 with cable plug, cable connection or junction box
<b>Power consumption</b>	
Standard version, vacuum version and external air controlled version	Inrush AC: 30 VA Hold AC: 15 VA/8 W DC cold/warm: 11 W/8 W
Vacuum version Low-Power	DC cold/warm: 3.4 W/2 W
Impulse version	Hold AC: 20 VA/11 W DC cold/warm: 11 W/8 W
Explosion-proof version	Inrush/Hold: 40 W/3 W
<b>Performance data</b>	
<b>Response times<sup>1)</sup></b>	
DN8	Opening: 25 ms Closing: 30 ms
DN12	Opening: 30 ms Closing: 60 ms
DN20	Opening: 35 ms Closing: 270 ms
DN25	Opening: 50 ms Closing: 300 ms
DN40	Opening: 80 ms Closing: 740 ms
<b>Medium data</b>	
<b>Medium<sup>2)</sup></b>	
Standard version	Neutral media such as compressed air, water, low-viscosity oils Oil- and grease-free media with EPDM
Vacuum version and external air controlled version	Neutral gases, compressed air, vacuum (low vacuum)
<b>Medium temperature</b>	
NBR	0 °C...+80 °C
PUR	0 °C...+80 °C
FKM	0 °C...+90 °C
EPDM	0 °C...+90 °C
Viscosity	Max. 21 mm <sup>2</sup> /s
<b>Approvals and certificates</b>	
<b>Ignition protection type (ATEX and IECEx)</b>	
with cable	II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db
with terminal box	II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db
<b>Product connections</b>	
Port connection	G ¼, G ½, G ¾, G 1, G 1½ (NPT on request)
<b>Electrical connection</b>	
Standard version, vacuum version and external air controlled version	Tag connector acc. to DIN EN 175 301 - 803 Form A for cable plug Type 2518
Vacuum version Low-Power	Tag connector acc. to DIN EN 175 301 - 803 Form C for cable plug Type 2516
Explosion-proof version	With cable outlet 3 x 0.5 mm <sup>2</sup> or terminal box

Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	0 °C...+55 °C -20 °C...+55 °C (EPDM)
Accessories	
Cable plug	Type 2518, see “Cable plug Type 2518, Form A according to DIN EN 175301 -803” on page 18 Type 2516, see “Cable plug Type 2516, Form C according to DIN EN 175301 -803” on page 18

- 1.) Measured at valve outlet with 6 bar and +20 °C. Opening: pressure build-up 0...90 %, closing: pressure reduction 100...10 %
- 2.) Media resistance according to the material combination


## 2. Circuit functions

Circuit functions	Description
	<b>Type: C, solenoid valve</b> 3/2 way Servo-controlled, with manual mode Normally closed
	<b>Type: D, solenoid valve</b> 3/2 way Servo-controlled, with manual mode Normally open
	<b>Type: C, Impuls-solenoid valve</b> 3/2 way Servo-controlled Normally closed
	<b>Type: C, solenoid valve</b> 3/2 way Servo-controlled, with auxiliary pilot air, with manual mode Normally closed
	<b>Type: D, solenoid valve</b> 3/2 way Servo-controlled, with auxiliary pilot air, with manual mode Normally open

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### 3. Materials

#### 3.1. Chemical Resistance Chart – Bürkert resistApp



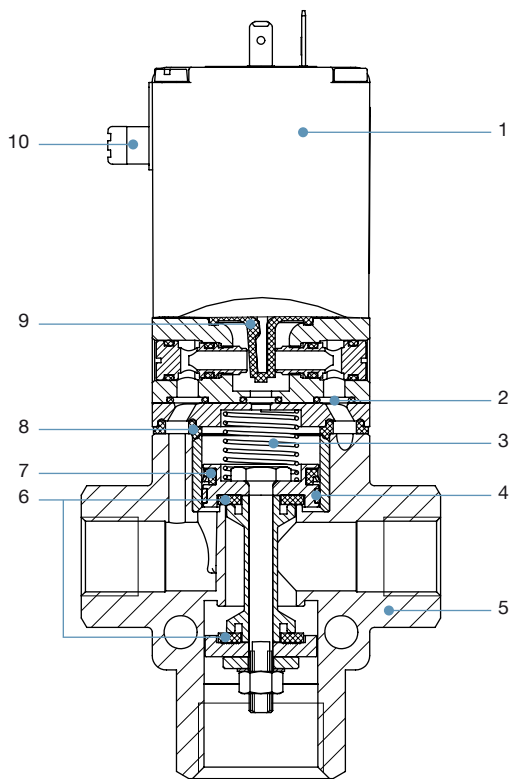
**Bürkert resistApp – Chemical Resistance Chart**

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start Chemical Resistance Check](#)

#### 3.2. Material specifications

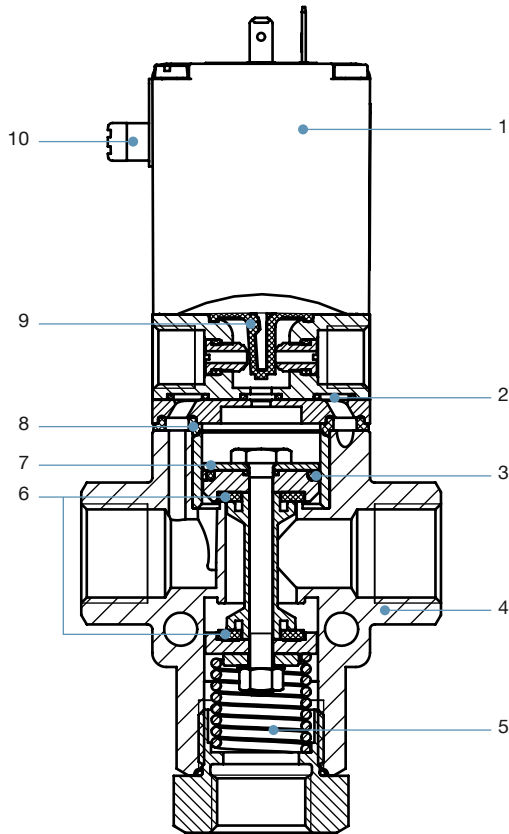
##### Standard and vacuum version



No.	Element	Material
1	Coil	Epoxy
2	O-rings	NBR, FKM, EPDM
3	Spring <sup>1.)</sup>	1.4310 stainless steel
4	Piston ring	PTFE
5	Housing	Brass, Gunmetal
6	Seat seal	NBR, PUR, FKM, EPDM
7	Piston seal	NBR, FKM, EPDM
8	Seal	NBR, FKM, EPDM
9	Diaphragm	NBR, FKM, EPDM
10	Manual override	PA

1.) Only for the vacuum version.

External air controlled version



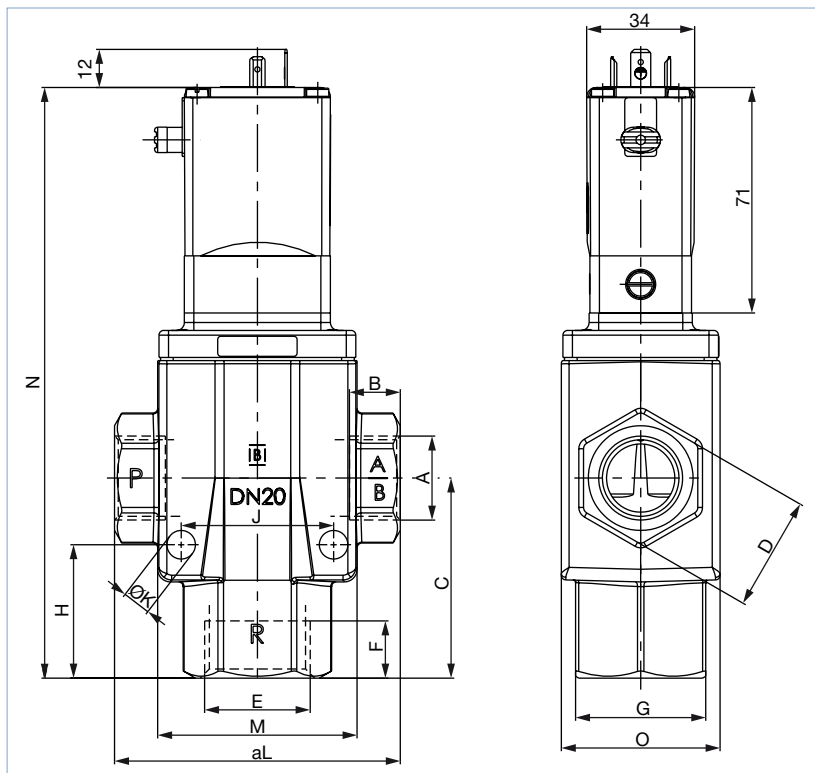
No.	Element	Material
1	Coil	Epoxy
2	O-rings	NBR, FKM, EPDM
3	Piston ring	PTFE
4	Housing	Brass, Gunmetal
5	Spring	1.4310 stainless steel
6	Seat seal	NBR, PUR, FKM, EPDM
7	Piston seal	NBR, FKM, EPDM
8	Seal	NBR, FKM, EPDM
9	Diaphragm	NBR, FKM, EPDM
10	Manual override	PA

## 4. Dimensions

### 4.1. Standard and vacuum version

**Note:**

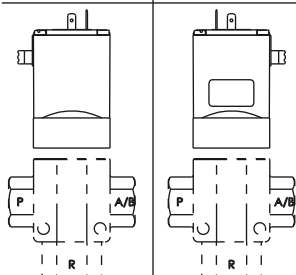
- Dimensions in mm
- The dimensions A1, B1, E1 and F1 apply to G threads.
- The dimensions A2, B2, E2 and F2 apply to NPT threads.
- The figure shows the valve in circuit function C with ports P, R and A/B (manual override via port P).  
In circuit function D, the manual override is located above port A/B.



DN	A1	B1	A2	B2	C	D	E1	F1	E2	F2	G	H	J	K	L	M	N	O
8	G ¼	12	NPT ¼	10	34.5	SW22	G ¾	12	NPT ¾	10.3	SW22	23	30	7	65	46	124.8	33
12	G ½	14	NPT ½	13.7	47	SW27	G ¾	16	NPT ¾	14	SW32	31	34	7	76	46	150.5	33
20	G ¾	16	NPT ¾	14	63	SW36	G 1	18	NPT 1	16.8	SW41	42	48	9	90	63	186	50
25	G 1	18	NPT 1	16.8	74.5	SW41	G 1¼	20	NPT 1¼	17.3	54	44	66	9	110	82	210.5	60
40	G 1½	22.5	NPT 1½	17.3	104	SW55	G 2	26.5	NPT 2	17.6	78	65	93	13	153	117	264	88

### Pilot valve configuration

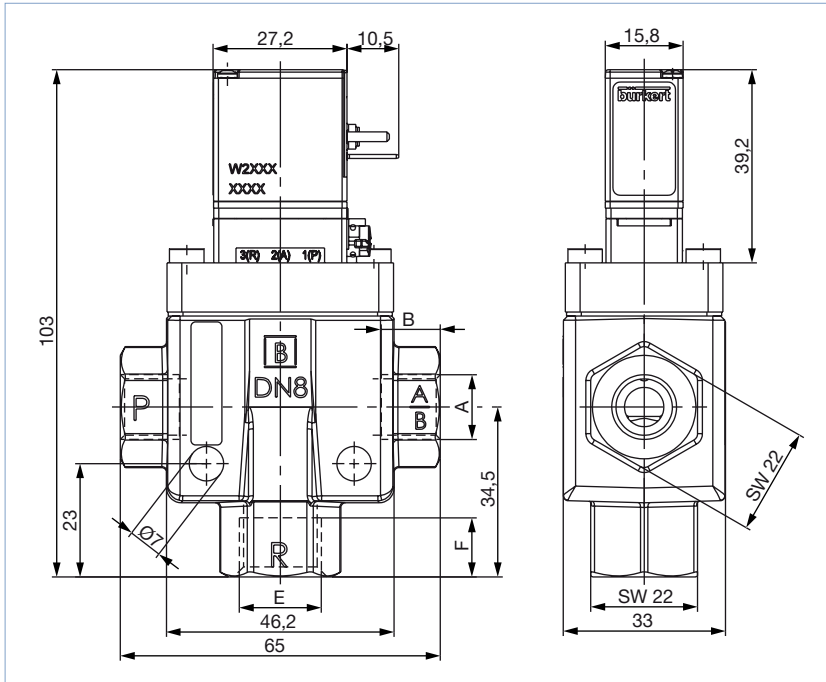
Type 6430 WWC | Type 6430 WWD



### 4.2. Vacuum version Low-Power

**Note:**

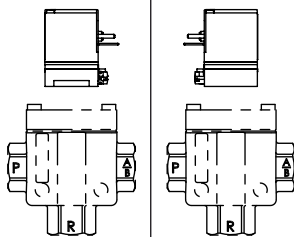
- Dimensions in mm
- The dimensions A1, B1, E1 and F1 apply to G threads.
- The dimensions A2, B2, E2 and F2 apply to NPT threads.
- The figure shows the valve in circuit function C with ports P, R and A/B (manual override via port P).  
In circuit function D, the manual override is located above port A/B.



DN	A1	B1	A2	B2	E1	F1	E2	F2
8	G 1/4	12	NPT 1/4	10	G 3/8	12	NPT 3/8	10.3

**Pilot valve configuration**

Type 6430 WWC | Type 6430 WWD



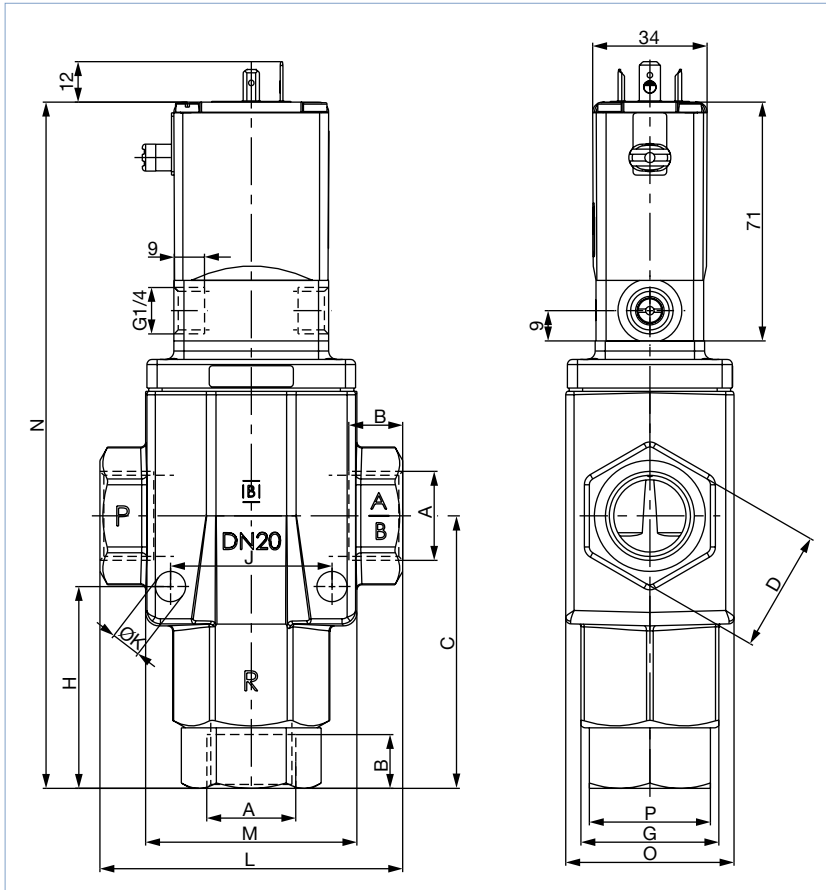
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### 4.3. External air controlled version

**Note:**

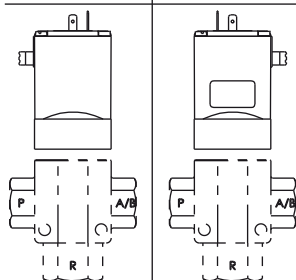
- Dimensions in mm
- The dimensions A1, B1, E1 and F1 apply to G threads.
- The dimensions A2, B2, E2 and F2 apply to NPT threads.
- The figure shows the valve in circuit function C with ports P, R and A/B (manual override via port P). In circuit function D, the manual override is located above port A/B.



DN	A1	B1	A2	B2	C	D	G	H	J	K	L	M	N	O	P
8	G 1/4	12	NPT 1/4	10	47.5	SW22	SW22	36	30	7	65	46	137.8	33	SW19
12	G 1/2	14	NPT 1/2	13.7	59	SW27	SW32	43	34	7	76	46	162.5	33	SW32
20	G 3/4	16	NPT 3/4	14	81	SW36	SW41	60	48	9	90	63	204	50	SW36

**Pilot valve configuration**

Type 6430 WWC | Type 6430 WWD

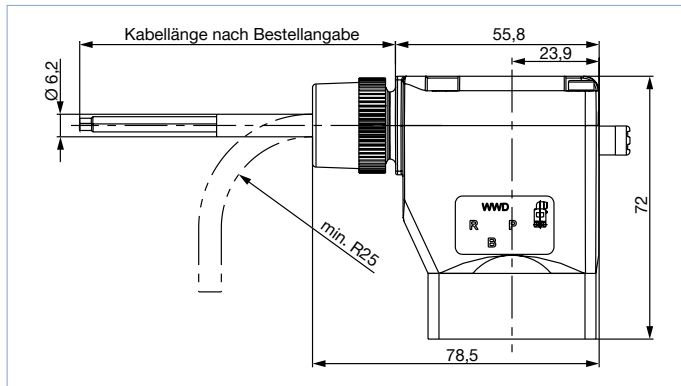


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#### 4.4. ATEX/IECEX version

**Note:**

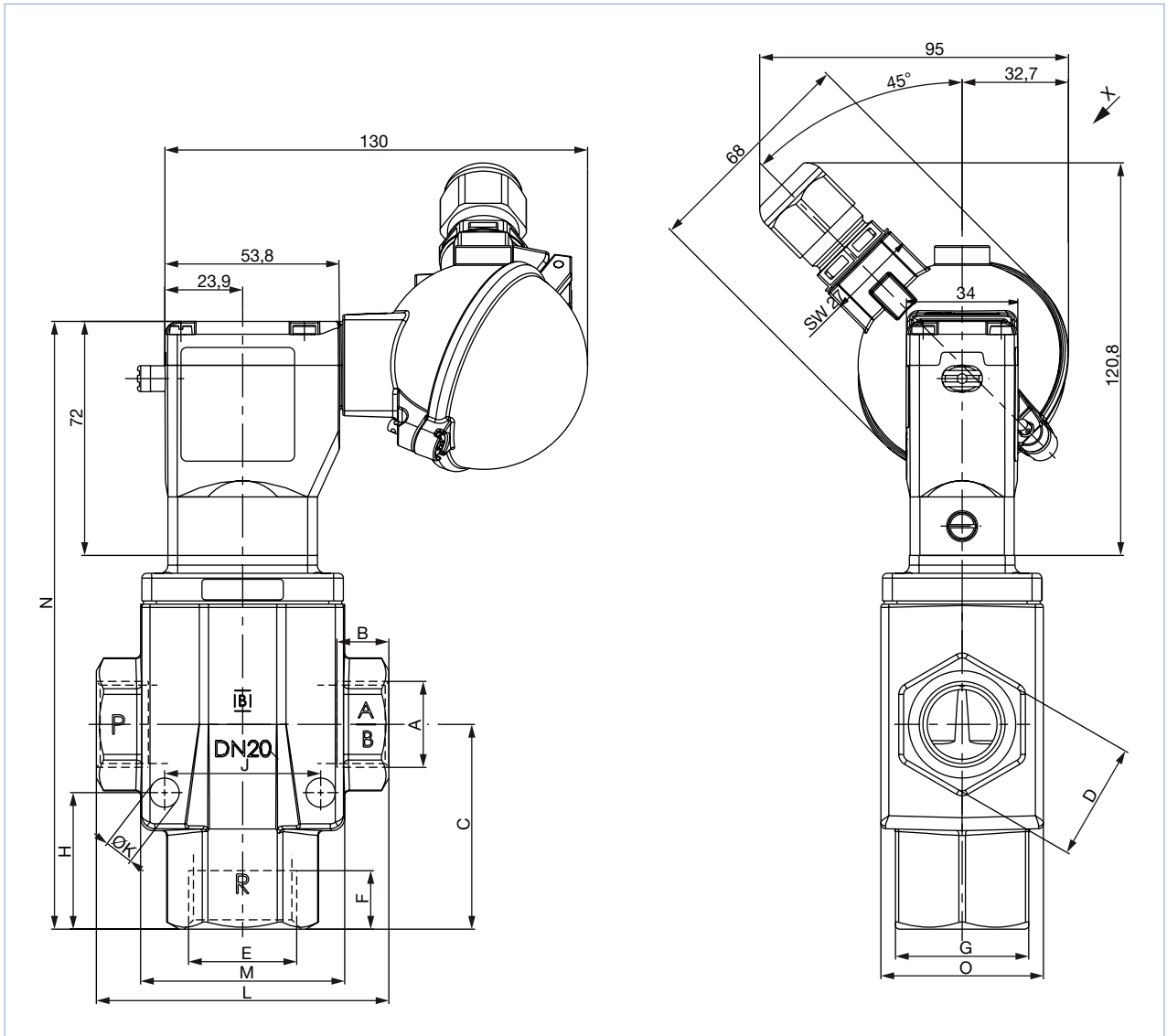
- Dimensions in mm
- The dimensions A1, B1, E1 and F1 apply to G threads.
- The dimensions A2, B2, E2 and F2 apply to NPT threads.

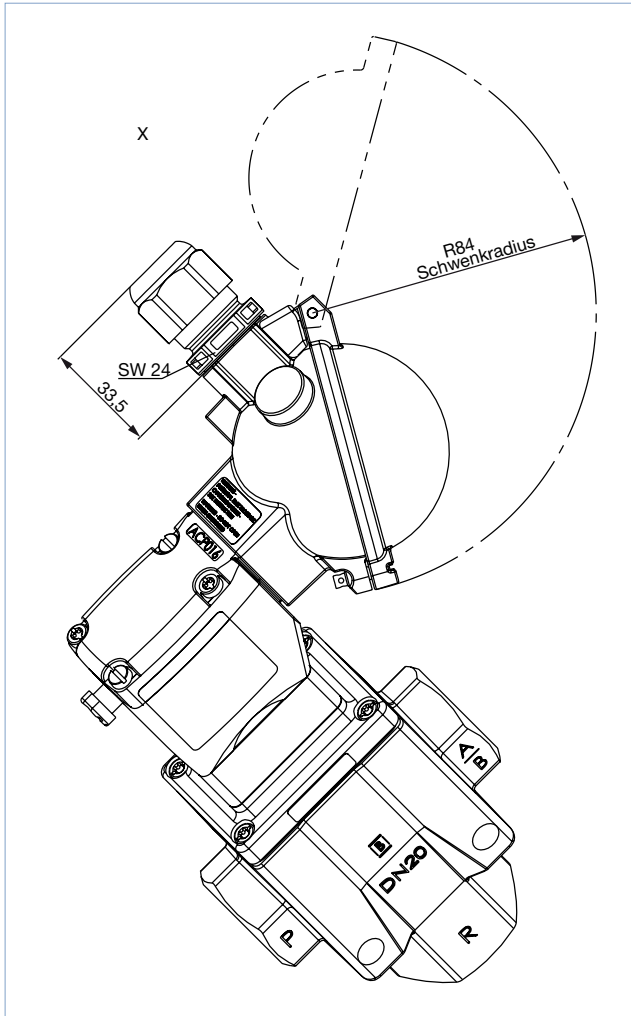
**Version with cable outlet**

Versions with junction box

Note:

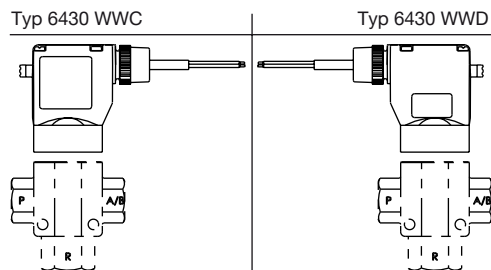
The figure shows the valve in circuit function C with ports P, R and A/B (manual override via port P).  
In circuit function D, the manual override is located above port A/B.






DN	A1	B1	A2	B2	C	D	E1	F1	E2	F2	G	H	J	K	L	M	N	O
8	G ¼	12	NPT ¼	10	34.5	SW22	G ⅝	12	NPT ⅝	10.3	SW22	23	30	7	65	46	124.8	33
12	G ½	14	NPT ½	13.7	47	SW27	G ¾	16	NPT ¾	14	SW32	31	34	7	76	46	150.5	33
20	G ¾	16	NPT ¾	14	63	SW36	G 1	18	NPT 1	16.8	SW41	42	48	9	90	63	186	50
25	G 1	18	NPT 1	16.8	74.5	SW41	G 1¼	20	NPT 1¼	17.3	54	44	66	9	110	82	210.5	60
40	G 1½	22.5	NPT 1½	17.3	104	SW55	G 2	26.5	NPT 2	17.6	78	65	93	13	153	117	264	88

**Pilot valve configuration**



## 5. Ordering information

### 5.1. Bürkert eShop – Easy ordering and quick delivery




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### 5.2. Bürkert product filter



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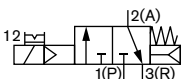
### 5.3. Ordering chart

#### Standard version

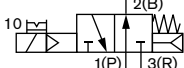
**Note:**

- Please note that the cable plug has to be ordered separately, see separate data sheet **Type 2518** ▶ or ordering chart accessories **“Cable plug Type 2518, Form A according to DIN EN 175301 - 803” on page 18.**
- Further versions are available on request.
- Valid for all articles in the following table: Housing material brass (DN25 and DN40 Gunmetal)

Circuit function	Port connection P and A/B	Orifice [mm]	K <sub>v</sub> value water [m <sup>3</sup> /h] <sup>1,)</sup>	Pressure range [bar] <sup>2,)</sup>	Weight [kg]	Article no. acc. to voltage/frequency [V/Hz]		
						024/DC	024/50	230/50
<b>G-inner thread, seal material NBR (DN12 seat seal PUR / external sealing NBR)</b>								
<b>C, solenoid valve</b> 3/2 way Servo-controlled, with manual mode Normally closed	G ¼	8	0.95	1...16	0.9	351164	357602	357604
	G ½	12	2.6	1...16	1.1	351175	357609	357611
	G ¾	20	6.2	1...16	2.2	351235	357615	357617
	G 1	25	10.0	1...10	2.8	351241	357621	357622
	G 1 ½	40	22.8	1...10	6.1	351247	357623	357624



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Circuit function	Port connection P and A/B	Orifice	K <sub>v</sub> value water	Pressure range	Weight	Article no. acc. to voltage/frequency [V/Hz]		
		[mm]	[m <sup>3</sup> /h] <sup>1.)</sup>	[bar] <sup>2.)</sup>	[kg]	024/DC	024/50	230/50
<b>G-inner thread, seal material NBR (DN12 seat seal PUR / external sealing NBR)</b>								
<b>D, solenoid valve</b> 3/2 way Servo-controlled, with manual mode normally open 	G ¼	8	0.95	1...16	0.9	357601 ☒	357603 ☒	357605 ☒
	G ½	12	2.6	1...16	1.1	357608 ☒	357610 ☒	357612 ☒
	G ¾	20	6.2	1...16	2.2	357614 ☒	357616 ☒	357618 ☒
	G 1	25	10.0	1...10	2.8	357619 ☒	X	364298 ☒
	G 1 ½	40	22.8	1...10	6.1	364302 ☒	X	364299 ☒

1.) Measured at +20 °C, 1 bar pressure at valve inlet and free outlet

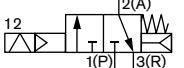
2.) Pressure data: Overpressure with respect to atmospheric pressure

X: on request

### Standard version as impulse valve

#### Note:

Valid for all articles in the following table: Housing material brass (DN25 and DN40 Gunmetal)

Circuit function	Port connection P and A/B	Orifice	K <sub>v</sub> value water	Pressure range	Weight	Article no. acc. to voltage/frequency [V/Hz]	
		[mm]	[m <sup>3</sup> /h] <sup>1.)</sup>	[bar] <sup>2.)</sup>	[kg]	024/DC	024/50
<b>G-inner thread, seal material NBR (DN12 seat seal PUR / external seal NBR)</b>							
<b>C, Impuls-solenoid valve</b> 3/2 way Servo-controlled Normally closed without manual mode 	G ¼	8	0.95	1...16	0.9	357606 ☒	X
	G ½	12	2.6	1...16	1.1	357613 ☒	X
	G ¾	20	6.2	1...16	2.2	X	X
	G 1	25	10.0	1...10	2.8	X	X
	G 1 ½	40	22.8	1...10	6.1	X	X

1.) Measured at +20 °C, 1 bar pressure at valve inlet and free outlet

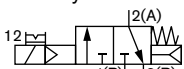
2.) Pressure data: Overpressure with respect to atmospheric pressure

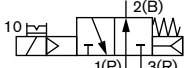
X: on request

### Vacuum version

#### Note:

- Please note that the cable plug has to be ordered separately, see separate data sheet **Type 2518** ► or ordering chart accessories "**Cable plug Type 2518, Form A according to DIN EN 175301-803**" on page 18.
- Please note that the vacuum version requires a minimum pressure difference of 0.5 bar and is only suitable for low vacuum (atmospheric pressure (1013 hPa) to 100 Pa (1 mbar)).
- Further versions are available on request.
- Valid for all articles in the following table: Housing material brass (DN25 and DN40 Gunmetal)

Circuit function	Port connection P and A/B	Orifice	K <sub>v</sub> value water	Pressure range	Weight	Article no. acc. to voltage/frequency [V/Hz]	
		[mm]	[m <sup>3</sup> /h] <sup>1.)</sup>	[bar] <sup>2.)3.)</sup>	[kg]	024/DC	024/50
<b>G-inner thread, seal material NBR</b>							
<b>C, solenoid valve</b> 3/2 way Servo-controlled, with manual mode Normally closed 	G ¼	8	0.95	Vacuum up to 3	0.9	351169 ☒	357628 ☒
	G ½	12	2.6	Vacuum up to 3	1.1	351179 ☒	357631 ☒
	G ¾	20	6.2	Vacuum up to 3	2.2	351237 ☒	357634 ☒
	G 1	25	10.0	Vacuum up to 3	2.8	351243 ☒	357637 ☒
	G 1 ½	40	22.8	Vacuum up to 3	6.1	351249 ☒	X

Circuit function	Port connection P and A/B	Orifice	K <sub>v</sub> value water	Pressure range	Weight	Article no. acc. to voltage/frequency [V/Hz]	
		[mm]	[m <sup>3</sup> /h] <sup>1.)</sup>	[bar] <sup>2.)3.)</sup>	[kg]	024/DC	024/50
<b>G-inner thread, seal material NBR</b>							
<b>D, solenoid valve</b> 3/2 way Servo-controlled, with manual mode Normally open  	G ¼	8	0.95	Vacuum up to 3	0.9	357627 ☒	357629 ☒
	G ½	12	2.6	Vacuum up to 3	1.1	357630 ☒	357632 ☒
	G ¾	20	6.2	Vacuum up to 3	2.2	357633 ☒	357635 ☒
	G 1	25	10.0	Vacuum up to 3	2.8	357636 ☒	357638 ☒
	G 1 ½	40	22.8	Vacuum up to 3	6.1	X	X

1.) Measured at +20 °C, 1 bar pressure at valve inlet and free outlet

2.) Pressure data: Overpressure with respect to atmospheric pressure

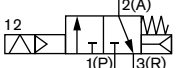
3.) For switching a minimum pressure difference of 0.5 bar is required

X: on request

### Vacuum version as impulse valve

#### Note:

Valid for all articles in the following table: Housing material brass (DN25 and DN40 Gunmetal)

Circuit function	Port connection P and A/B	Orifice	K <sub>v</sub> value water	Pressure range	Weight	Article no. acc. to voltage/frequency [V/Hz]	
		[mm]	[m <sup>3</sup> /h] <sup>1.)</sup>	[bar] <sup>2.)3.)</sup>	[kg]	024/DC	024/50
<b>G-inner thread, seal material NBR</b>							
<b>C, Impuls-solenoid valve</b> 3/2 way Servo-controlled, without manual mode Normally closed  	G ¼	8	0.95	Vacuum up to 3	0.9	357639 ☒	X
	G ½	12	2.6	Vacuum up to 3	1.1	357640 ☒	X
	G ¾	20	6.2	Vacuum up to 3	2.2	357641 ☒	X
	G 1	25	10.0	Vacuum up to 3	2.8	357642 ☒	X
	G 1 ½	40	22.8	Vacuum up to 3	6.1	357643 ☒	X

1.) Measured at +20 °C, 1 bar pressure at valve inlet and free outlet

2.) Pressure data: Overpressure with respect to atmospheric pressure

3.) For switching a minimum pressure difference of 0.5 bar is required

X: on request

## Vacuum version Low-Power

## Note:

- Please note that the cable plug has to be ordered separately, see separate data sheet **Type 2516** ▶ or ordering chart accessories “Cable plug Type 2516, Form C according to DIN EN 175301-803” on page 18.
- Please note that the vacuum version requires a minimum pressure difference of 0.5 bar and is only suitable for low vacuum (atmospheric pressure (1013 hPa) to 100 Pa (1 mbar)).
- Further versions are available on request.
- Valid for all articles in the following table: Housing material brass (DN25 and DN40 Gunmetal)

Circuit function	Port connection P and A/B	Orifice	K <sub>v</sub> value water	Pressure range	Weight	Article no. acc. to voltage/frequency [V/Hz]
		[mm]	[m <sup>3</sup> /h] <sup>1.)</sup>	[bar] <sup>2.)3.)</sup>	[kg]	024/DC
<b>G-inner thread, seal material NBR</b>						
<b>C, solenoid valve</b> 3/2 way Servo-controlled, with manual mode Normally closed	G ¼	8	0.95	Vacuum up to 1	0.6	357626
<b>D, solenoid valve</b> 3/2 way Servo-controlled, with manual mode Normally open	G ¼	8	0.95	Vacuum up to 1	0.6	357625

1.) Measured at +20 °C, 1 bar pressure at valve inlet and free outlet

2.) Pressure data: Overpressure with respect to atmospheric pressure

3.) For switching a minimum pressure difference of 0.5 bar is required

## 5.4. External air controlled version

## Note

- Please note that the cable plug has to be ordered separately, see separate data sheet **Type 2518** ▶.
- Please note that the version controlled by external air requires an auxiliary control air of at least 2 bar above the operating pressure.
- Further versions are available on request.
- Valid for all articles in the following table: Housing material brass (DN25 and DN40 Gunmetal)

Circuit function	Port connection P and A/B	Orifice	K <sub>v</sub> value water	Pressure range	Weight	Article no. acc. to voltage/frequency [V/Hz]
		[mm]	[m <sup>3</sup> /h] <sup>1.)</sup>	[bar] <sup>2.)3.)</sup>	[kg]	024/DC
<b>G-inner thread, seal material NBR (DN8 and DN12 seat seal PUR / external seal NBR)</b>						
<b>C, solenoid valve</b> 3/2 way Servogesteuert Normally closed mit Steuerhilfsluft mit Handbetätigung	G ¼	8	0.95	Vacuum up to 8	0.9	351172
	G ½	12	2.6	Vacuum up to 8	1.1	351181
	G ¾	20	6.2	Vacuum up to 8	2.3	351239



Circuit function	Port connection P and A/B	Orifice	K <sub>v</sub> value water	Pressure range	Weight	Article no. acc. to voltage/ frequency [V/Hz]
		[mm]	[m <sup>3</sup> /h] <sup>1.)</sup>	[bar] <sup>2.)3.)</sup>	[kg]	024/DC
<b>G-inner thread, seal material NBR (DN8 and DN12 seat seal PUR / external seal NBR)</b>						
<b>D, solenoid valve</b> 3/2 way Servogesteuert Stromlos geöffnet mit Steuerhilfsluft mit Handbetätigung	G ¼	8	0.95	Vacuum up to 8	0.9	357644
	G ½	12	2.6	Vacuum up to 8	1.1	357645
	G ¾	20	6.2	Vacuum up to 8	2.3	357646

3.) The version controlled by external air requires an auxiliary control air of at least 2 bar above the operating pressure.

1.) Measured at +20 °C, 1 bar pressure at valve inlet and free outlet

2.) Pressure data: Overpressure with respect to atmospheric pressure

3.) For switching a minimum pressure difference of 0.5 bar is required


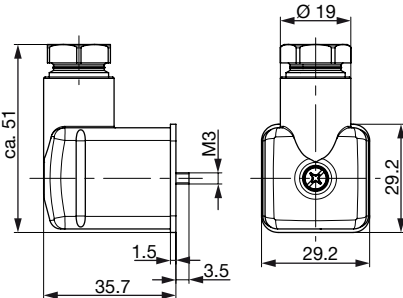
Further versions on request	
<b>Additional</b> Electrical position feedback	<b>Material</b> <ul style="list-style-type: none"> <li>• FKM</li> <li>• EPDM</li> </ul>
<b>Approval</b> <ul style="list-style-type: none"> <li>• cURus – coil approval</li> <li>• Pilot valve cURus (UL-recognized) – approval</li> <li>• ATEX/IECEx – approval</li> </ul>	<b>Voltage</b> Further voltages on request
<b>Process connection</b> NPT	

### 5.5. Ordering chart accessories

#### Cable plug Type 2518, Form A according to DIN EN 175301 - 803

**Note:**


- The scope of delivery of a cable plug includes a flat gasket and a fixing screw.
- Further versions see data sheet **Type 2518** ▶.

Cable plug	Dimensions	Version	Voltage	Continuous current	Article no.
		Without circuitry (AC/DC)	0...250 V AC/DC	16 A 10 A (VDE, UL) 8 A (CSA)	314802
		Without circuitry, 3 pin and protective conductor (for impulse version)	0...250 V AC/DC	16 A 10 A (VDE)	315329
		With LED (AC/DC)	12...24 V AC/DC	10 A	314812
		With LED and varistor (AC/DC)	12...24 V AC/DC	10 A	314820
		With rectifier, LED and varistor	12...24 V AC/DC	1 A	314816

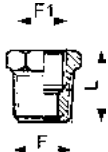
#### Cable plug Type 2516, Form C according to DIN EN 175301 - 803

**Note:**

- Nur für Vakuumausführung Low-Power
- The scope of delivery of a cable plug includes a flat gasket and a fixing screw.
- Further versions see data sheet **Type 2516** ▶.

Cable plug	Version	Voltage	Continuous current	Article no. without cable
	Without circuitry	0...250 V AC/DC	Max. 6 A	303141

#### Threaded connection, reduction, cylindrical UNI-ISO 228/1

Reduction	Material	Max. nominal pressure [bar]	F	F1	L	Packaging unit	Article no.
					[mm]	[piece]	
	brass, nickel-plated	60	G ½	G ¾	15.5	10	780140

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