DN 0.9 / 1,2 mm; 0 - 10 bar;

CNOMO and BURKERT sub-base; flow rate: up to 40 l/min



Design/Function

The valve consists of a plastic body, a frictionless rocker armature with spring and a DC coil. A stainless steel plate hermetically isolates the fluid from the actuator.

The innovative rocker alternately opens or closes two connections when switched. All 3/2 (or 2/2) circuit functions can be achieved by pressuring or exhausting a further outlet connection via them. The deenergized position is spring set.

The simple design ensures that the valves can be switched with a minimal rocker movement combining low wear under absolute non-lube conditions.

The external surfaces of the valve are smooth preventing dirt particles from adhering. The valves can be driven by a PLC with their low power consumption . For the electrical connection, there is a wide choice of wired cable plugs (Type 2506) available as accessories (standard, LED, rectifier, varistor). The operation with alternating current (230 V/50 Hz) is possible with the use of a rectifier.

A manual override allows easy maintenance and commissioning of the valve.

Type 6106 impulse version is a bistable valve. The operation has to be done through external pole reversal (e.g. PLC).

The advantages of the impulse version are functional safety at short time power failure, saving of energy and low heat generation. It is applicable for switching systems with impulse control.

Advantages/Benefits

- Simple design, robust and frictionless
- Long service life, under absolute non-lube conditions
- Compact size high flow rate
- PLC-compatible; low power and high drop-out voltage
- Wide choice of fluid and electrical interfaces
- Suitable for technical vacuum
- Wide accessory range of wired cable plugs

Applications

Fluids

- Lubricated, non-lubricated, dry air
- Neutral gases
- For technical vacuum

Applications

- As a direct-acting single valve or as a pilot valve
- For actuator control
- To solve logic control problems
- As valve manifold assemblies



Technical Data

Circuit Functions		Symbols	Circuit Functions		ıs	Symbols	
whe	way valve, en de-enerç austed	jized, port A		С	outlet port A with impuls	ve, e at terminal 1 A exhausted, e at terminal 2 A pressurized	
whe pres	ssurized	jized, port B		A/B	2/2-way flow on request	v valve,	
Specifications							
Orifice DN		Flow QNn-value air ²⁾	Manifold	Press	ure range ¹⁾	Weight	Electr.

Spec	ificati	ions

Orifice DN	Flow QNn-	n-value air ²⁾ Manifold		Pressure range ¹⁾	Weight	Electr.	
[mm]	P→A, B		A, B→R		[bar]	[g]	power consumption [W]
	BURKERT	CNOMO	BURKERT	СNOMO			
0,9	22	22	25	25	0-8	55	1 (24 V DC only)
1,2	40	33	47	38	0–10	55	2 or 3

 $^{1)}$ All pressures quoted are gauge pressures with respect to the prevailing atmospheric pressure. $^{2)}$ Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C.

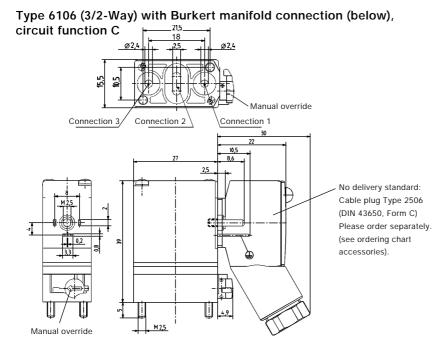
Valve specification		Solenoid specificat	ion		
Body material	PA (polyamide)	Nominal voltages ⁴⁾	24 V impulse (external pole		
Seal material	FPM (Viton)		reversal necessary) 24 V DC; 110–120 V DC;		
Isolating plate between body and coil	stainless steel		220–240 V DC (12 V DC on request)		
Fluids	lubricated, unlubricated, dry air, neutral gases, for technical vacuum	Voltage tolerance Power consumption	±10 % 1 W/2 W at 24 V DC 3 W at 110–120 V DC 3 W at 220–240 V DC at least 0.15 x voltage nomina		
Max. viscosity	approx. 21 mm ² /s	Drop-out voltage			
Ambient temperature	–10 up to +55 °C	(for switching rocker)	(under the regulations VDE 0580)		
Fluid temperature	–10 up to +55 °C	Electr. control Switching frequency	PLC-controllable 1000 c.p.m.		
Port connection	 CNOMO-interface, BURKERT-interface with connection through the bottom (as Type 375) 	Duty cycle Rating Type of protection	100% continuously rated IP 20 without cable plug IP 65 with cable plug on request: EEx i IIC T6		
Response times ³⁾			(12 V DC / 0.5 W)		
Opening delay time Opening Closing	10 ms 23 ms 21 ms	Electr. connection Standard:	 side tag connectors to DIN 43 650 		
Response times for impu Minimum duration of im Release coil (tag 1 and	npulse:	On request:	 top tag connectors to DIN 43 650 Flying leads and round plugs 		
Operating coil (tag 2 an	id 4) 20 ms	Cable plug	Type 2506 as accessory		
		Installation/Accessories			
end volume of approx. 1 cm from switching on until pres Delay time: Time from electr the pressure change.	-way valve are determined using an ³ . The times are measured at outlet A sure rise to 90% /pressure drops to 10%. rical switching on until the beginning of	Installation	as required, but preferably with solenoid system upright		
⁴⁾ Solenoid coils must only be cable plug with a rectifier (c	operated with DC; otherwise use a f. accessory Type 2506).	Manifolding	with common pressure supply max. 12 valves on special manifolds (as		

Coil spacing

accessory)

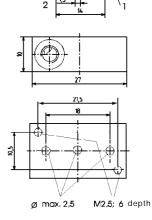
16,5 mm

Dimensions [mm]

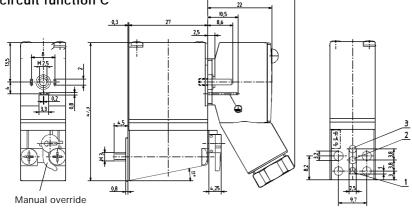


3 17 M3 - 5 tief depth

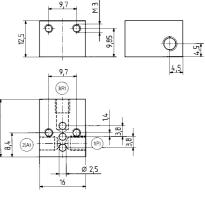
Single manifold for Burkert sub-base



Type 6106 (3/2-Way) with side CNOMO manifold connection, circuit function C



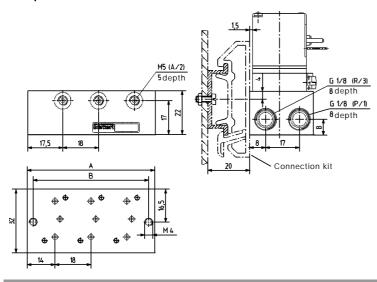
Single manifold for CNOMO sub-base



2

coil spacing: 16.5 mm

Multiple manifold for Burkert sub-base



Ordering Chart (Other Versions on Request)

All versions with side tag connectors, polyamide body and FPM-seal. Supply package includes 2 mounting screws M3 x 30 and manifold seal; without cable plug (see accessories)

Type 61061)	DN	Q _{Nn} -value	e air	Pressure	Port-	Voltage ²⁾	Power	Item-No.	Item-No.
Circuit-					connection		consumption		for impulse version
function	[mm]	[l/min]	[l/min]	[bar]	interface	[V DC]	[W]		
		1→2	2→3		to				
С	0,9	22	25	0 - 8	BURKERT	24	1,0	126 417 A	-
	0,9	22	25	0 - 8	BURKERT	24/Impulse	1,0	-	137 971 Q
	1,2	40	47	0 - 10	BURKERT	24	2,0	126 411 C	-
	1,2	40	47	0 - 10	BURKERT	24/Impulse	1,0	-	137 970 T
	1,2	40	47	0 - 10	BURKERT	110–120	3,0	126 412 D	-
	1,2	40	47	0 - 10	BURKERT	220-240	3,0	126 413 E	-
D	0,9	22	25	0 - 8	BURKERT	24	1,0	126 421 E	-
	1,2	40	47	0 - 10	BURKERT	24	2,0	126 419 L	-
С	0,9	22	25	0 - 8	CNOMO	24	1,0	126 418 K	-
	0,9	22	25	0 - 8	CNOMO	24/Impulse	1,0	-	137 972 R
	1,2	33	38	0 - 10	СNOMO	24	2,0	126 414 F	-
	1,2	33	38	0 - 10	CNOMO	110–120	3,0	126 415 G	-
	1,2	33	38	0 - 10	CNOMO	220-240	3,0	126 416 H	-
D	0,9	22	25	0 - 8	CNOMO	24	1,0	126 422 F	-
	1,2	33	38	0 - 10	CNOMO	24	2,0	126 420 R	-

 $^{1)}$ Type 6105 (circuit function A and B) on request. $^{2)}$ For alternating current use cable plug with appropriate rectifier (see accessories)

Accessory Ordering Chart						
Unit	Characteristics	Item-No.				
Cable plug Type 2506	no wiring, 0–250 V	008 353 P				
Cable plug Type 2506	with LED, 12-24 V	008 402 A				
Cable plug Type 2506	with LED, rectifier and varistor, 200-240 V	008 356 J				
Other versions of cable plug Type 2506	alternate circuits (see data sheet Type 2506)					
Single manifold CNOMO	width 16 mm, port connection M5	639 885 S				
Single manifold BURKERT	width 16 mm, port connection M5	623 873 V				
Single manifold BURKERT	width 16 mm, port connection G1/8	634 917 L				

Operation of impulse versions

Standard cable plug type 2506

- through external pole reversal (e.g. PLC)

· Cable plug

- with internal pole reversal

Manifolds Ordering Chart

Multiple manifolds (material: aluminium); for Burkert-sub-base; coil spacing 18 mm

Manifold	А	В	Item-No.
	[mm]	[mm]	
2 Station	46	40	629 500 J
3 Station	64	58	629 169 R
4 Station	82	76	629 501 F
5 Station	100	94	629 502 G
6 Station	118	112	629 503 H
7 Station	136	130	629 504 A
8 Station	154	148	629 505 B
9 Station	172	166	629 890 H
10 Station	190	184	629 919 H
11 Station	208	202	007 110 X
12 Station	226	220	629 920 E
Connection	kit	629 254 N	
DIN-rail			
TS 35 x 7,5	mm		
Blanking pla	ate	629 327 F	