



5/2- and 3/2-Way Solenoid Valves; Pilot-Operated;  
30 – 115 PSI; 1/4" NPT and NAMUR Flange



## Advantages/Benefits

- ▶ Switches reliably, even with full throttling capability
- ▶ Safety position by mechanical return spring
- ▶ Low wear and maintenance even with non-lubricated fluids
- ▶ Delivered as 5/2-way, can easily be changed to 3/2-way with adapter plate
- ▶ 3/2-way function with exhaust feedback
- ▶ Corrosion resistant
- ▶ Various HazEx™-versions as option
- ▶ ,  and  approval

## Construction / Function

The Type 6519 NAMUR is an extremely reliable diaphragm actuated seat valve.

The valve, which is manufactured from high-quality plastic, can be operated in its 5/2- or 3/2-way function by exchanging the 5/2-way NAMUR plate with the separate 3/2-way plate, which is also part of the delivery.

The 3/2-way function works with exhaust feedback into the spring space. This way, the entrance of aggressive external air into the interior of the actuator is prevented.

A solenoid valve with a push-over coil is used as the standard pilot valve. In the inactive state, an integrated mechanical return spring sets the valve into the safety position.

As standard, the electrical connections are made using the Type 2508 cable plug (acc. DIN 43 650 form A) or one of the versions corresponding to the Ex-Norm.

The NAMUR flange enables a simple field mounting of the valve directly onto the actuator.

## Applications

### Fluids

- Lubricated or non-lubricated compressed air
- Instrument air
- Nitrogen

### Applications

Control valves for pneumatic linear and quarter-turn actuators preferably for

- Chemical industry
- Petro-chemical industry
- General process technology

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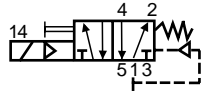
**Burkert Contromatic Inc.**  
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# Solenoid Valve, Pilot-Operated with NAMUR Adapter Plate

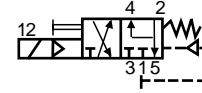
**Type 6519**  
NAMUR

## Technical Data Type 6519 NAMUR

5/2-way valve, in de-energized position, pressure port 1 connected to port 2, output 4 exhausted



3/2-way valve with exhaust recycling, in de-energized position, port 2 fed back internally



## Valve Characteristics

Valve function	DN [mm]	Flow rate <sup>1)</sup> QNn-Value (air) [l/min]	Pressure range <sup>2)</sup> [bar]	Port connection
5/2-way	6,0	900	30-115	1/4 and NAMUR flange
3/2-way	6,0	900	30-115	1/4 and NAMUR flange

<sup>1)</sup> measured at 87 PSI input pressure and 15 PSI pressure drop at the valve and 68°F.

<sup>2)</sup> All pressures are gauge.

## Operational Data (Armature)

Valve body	Polyamide (PA)
Sealing material	PB (NBR and PUR)
Media	Lubricated or non-lubricated compressed air, Instrument air, Nitrogen
Media temperature	-14°F – 140°F (-25°C – 60°C)
Ambient temperature	-14°F – 140°F (-25°C – 60°C)
Response times <sup>3)</sup>	
Opening (On)	25 ms
Closing (Off)	40 ms
Port connection	1/4 NPT and NAMUR flange

<sup>3)</sup> Measured at Connection 2; time from electrical switching to pressure increase to 90%, or pressure drop to 10% of operational pressure (115 PSI). The values given apply for both AC and DC; with the UC model, the switch-off time increases by 10 to 15 ms.

## Operational Data (Pilot)

Operating voltage	24 V/DC and 24 V/60 Hz 120 V/60 Hz 240 V/60 Hz
Voltage tolerance	±10%
Power consumption	
DC	2 W
AC	11 VA inrush 6 VA hold
Duty cycle	100% continuously rated
Coil insulation class	
UL recognized	Class B molded
UL listed	Class H molded
Electrical connection	<ul style="list-style-type: none"> <li>• Cable plug Type 2508 for UR version</li> <li>• Conduit cable plug 2509 for UL version</li> </ul>
Protection class	IP 65 (with cable plug)
Ex approval	FM-Ex Div. 1 T6 CSA-Ex Div. 1 T6 (see datasheet 6519 NAMUR Ex)

## Installation

The valve is delivered in the 5/2-way function. The 3/2-way function is realized by exchanging the adapter plate.

Mounting position Any, preferably solenoid system upright.



**Ordering Table Type 6519 NAMUR**

All valves are delivered with exchangeable adapter plates (i.e., 5/2- and 3/2-way functions in one device), with manual operation, 1/4 NPT connection sockets and NAMUR flange connection for mounting onto the actuator.

(with standard-cable plug 0-250 V AC/DC)

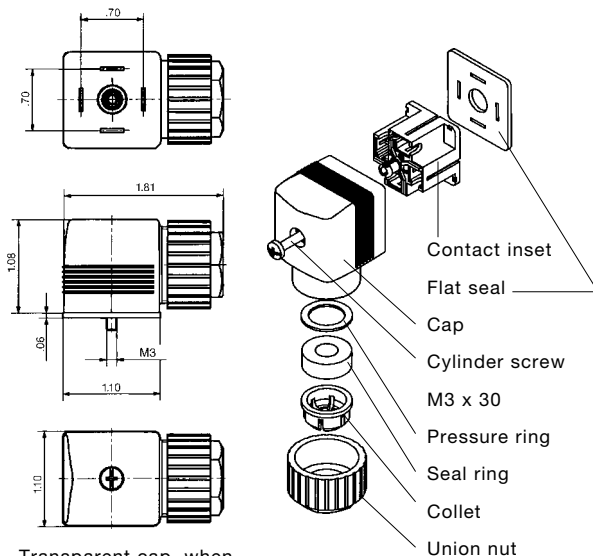
DN [mm]	Flow rate QNn-Value (air) [l/min]	Pressure range [PSI]	Material connection	Voltage/ frequency [V/Hz]	Electrical power consumption [W]	Item-No.
6,0	900	30-115	MS (nickel-plated)	24/DC	2	433 665 W
				24/50-60	2	430 574 V
				120/60	2	420 844 Z
				240/60	2	420 845 S
6,0	900	30-115	VA	24/DC	2	US06887
				24/50-60	2	US07334
				110/50-60	2	US07335
				230/50-60	2	US07336

**Ordering Table, Accessories**

Instrument socket <sup>1)</sup>	Characteristics	Item-No.
Type 2508	without wiring, 0 - 250 V	008 376 N
Type 2508	with LED, 12 - 24 V	008 360 S
Type 2508	with LED and varistor, 12 - 24 V	008 367 M
Type 2508	with LED and varistor, 200 - 240 V	008 369 X
Other Type 2508 versions	with various wiring possibilities (see data sheet)	—

<sup>1)</sup> With these accessories, only a minimum of the possible instrument sockets with wiring are presented. For other models, refer to the Type 2508 Data Sheet.

**Dimensions Accessories [mm]**



Transparent cap, when wired with LED.

**Ordering Chart for Accessories**

Device/ Accessory	Features	Item-No.
<b>Cable-plugs<sup>1)</sup></b> Type 2508	Standard cable plug, 0-250 V AC/DC (standard-delivery) <sup>1)</sup>	008 376 N
	with LED, 12-24 V AC/DC	008 360 S
	with LED, 100-120 V AC/DC	008 361 P
	with LED + varistor, 12-24 V AC/DC	008 367 M
	with LED + varistor, 100-120 V AC/DC	008 368 W
	with LED + varistor, 200-240 V AC/DC	008 369 X
(optional wirings and connection specifications see data sheet Type 2508)		

<sup>1)</sup> The standard cable plug (0-250 V AC/DC), Order-No. 008 376 N is part of the standard delivery. Ordering of optional cable plugs with separate ordering number.

A wide selection of further cable plugs is available (see special data sheet Type 2508)