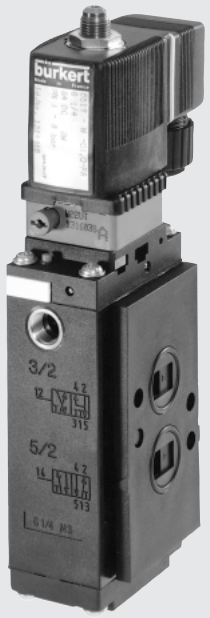
5/2- and 3/2-way solenoid valves; pilot-operated; 32 mm; DN 6; PN 2 to 8 bar; G 1/4 and NAMUR flange



Advantages/Benefits

- **Switches reliably, even with full throttling capability**
- **Safety position by mechanical return spring**
- **Low wear and maintenance thanks to good dry running characteristics**
- **Delivered as 5/2-way, can easily be changed to 3/2-way with included, separate adapter plate**
- **3/2-way function with exhaust feedback**
- **Corrosion resistant**
- **Various Ex-versions as option**

Construction / Function

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. In this way, the penetration of aggressive external air into the interior of the actuator is prevented.

A solenoid valve with push-over coil is used as 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 Type 2508 cable plug (acc. to 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 unlubricated compressed air
- Instrument air
- Nitrogen

Applications

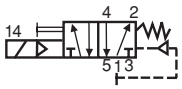
Control valves for pneumatic linear and quarter-turn actuators preferably for

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

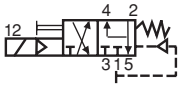
bürkert
Easy Fluid Control Systems

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[1] Q_{Nn}-Value (air) [l/min]	Pressure range[2] [bar]	Port connection
5/2-way	6,0	900	2–8	G 1/4 and NAMUR flange
3/2-way	6,0	900	2–8	G 1/4 and NAMUR flange

[1] measured at 6 bar input pressure and 1 bar pressure drop at the valve and 20°C.
[2] All pressure data as overpressure to ambient atmospheric pressure

Operational Data (Armature)

Valve body	Polyamide (PA)
Sealing material	PB (NBR and PUR)
Media	Lubricated or unlubricated compressed air, Instrument air, Nitrogen
Media temperature	–25 up to +60°C
Ambient temperature	–25 up to +60°C
Response times[3]	
Opening (On)	25 ms
Closing (Off)	40 ms
Port connection	G 1/4 and NAMUR flange

[3] Measured at Connection 2; time from electrical switching to pressure increase to 90%, or pressure drop to 10% of operational pressure (6 bar). 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)

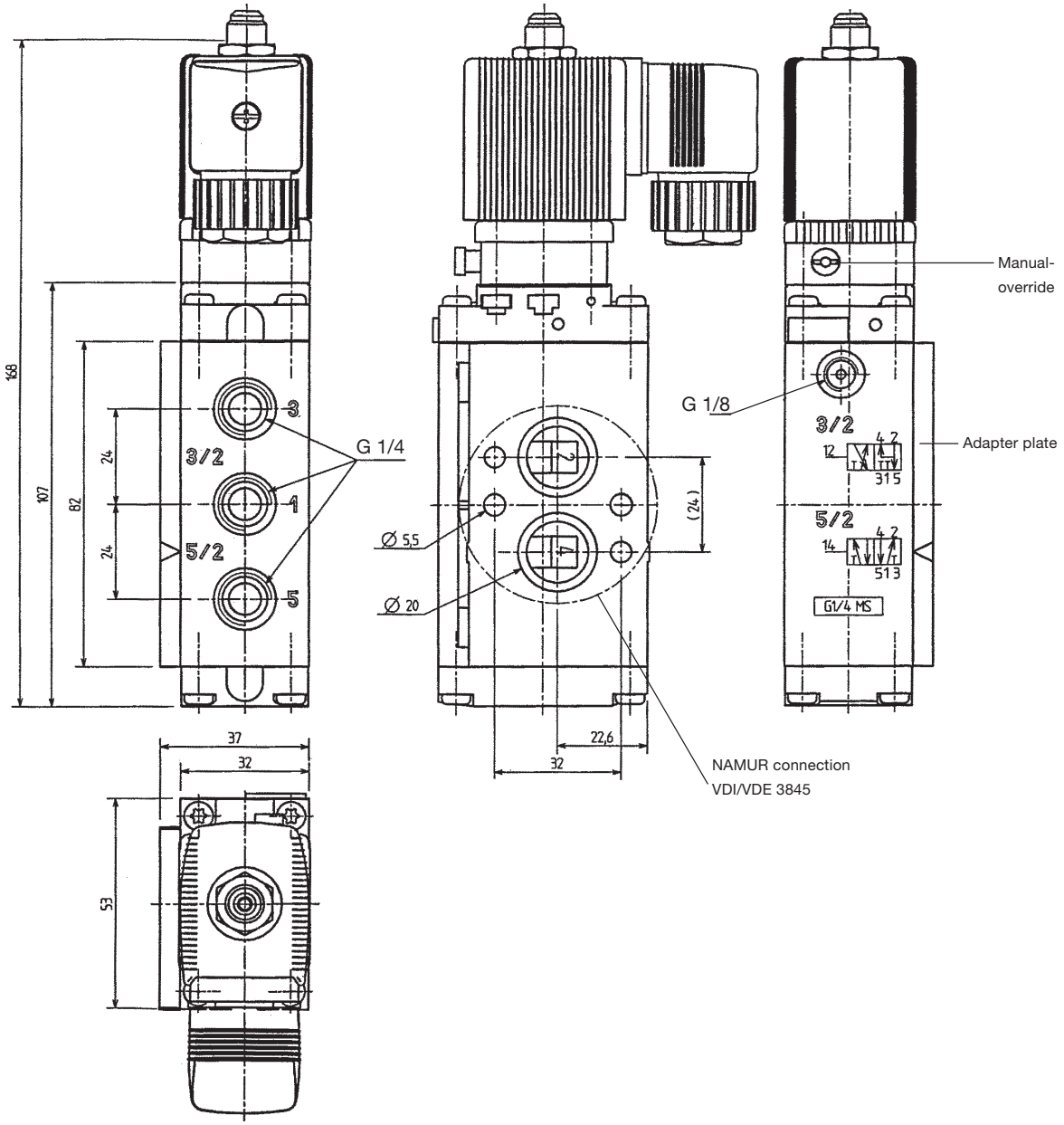
Operating voltage	24 VDC and AC 110 VAC 230 VAC
Voltage tolerance	± 10%
Power consumption	
DC	2 W
AC	11 VA inrush 6 VA hold
Duty cycle	100% continuously rated
Electrical connection	Cable plug Type 2508 (to DIN 43650 Form A)
Protection class	IP 65 (with cable plug)
Ex approval	EEx m (on request) Ex ed (on request) EEx i (on request)

Installation

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

Mounting position	Any, preferably solenoid system upright

Dimensions [mm]



Type 6519 NAMUR in standard construction with contact pattern to DIN 43 650 Form A;
Cable plug DIN 43650, form A, (0-250 V AC/DC) delivery standard.

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, G 1/4 connection sockets and NAMUR flange connection for mounting onto the actuator.

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

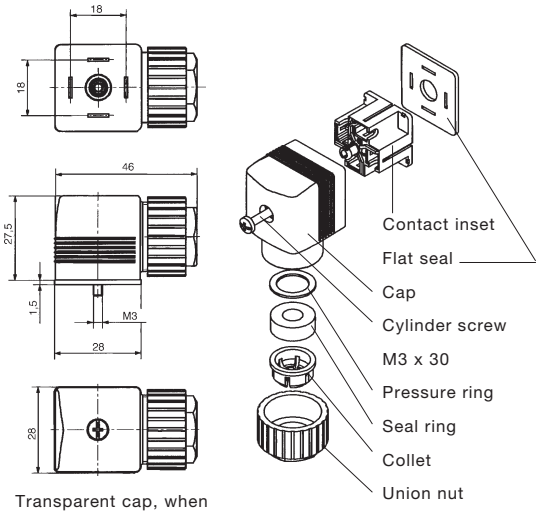
DN [mm]	Flow rate Q_{Nn}-Value (air) [l/min]	Pressure range [bar]	Material connection	Voltage/ frequency [V/Hz]	Electrical power consumption [W]	**Item-No.**
6,0	900	2-8	MS (nickel-plated)	24/DC	2	131 421 B
				24/50–60	2	131 422 C
				110/50–60	2	131 423 D
				230/50–60	2	131 424 E
6,0	900	2-8	VA	24/DC	2	131 425 F
				24/50–60	2	131 426 G
				110/50–60	2	131 427 H
				230/50–60	2	131 428 J

Ordering Table, Accessories

Instrument socket[1]	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)	—

[1] 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.**
Cable-plugs[1] Type 2508	Standard cable plug, 0–250 V AC/DC (standard-delivery)[1]	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)	

[1] **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)