3/2- and 5/2-way valves; pilot-operated; DN 6; G 1/4; flow rate: 900 l/min



Advantages / Benefits

- **EEx m II T5 and T6 or EEx me II T5 and T6 approved**
- **3/2- and 5/2-way**
- **High flow rates**
- **Maintenance-free and no wear due to high level dry run properties**
- **High switch reliability, even at full flow restriction**
- **Coil can be locked in 4 x 90° positions or freely moved in between, as required**
- **Corrosion resistant stainless steel and brass (nickel-plated) threaded ports**
- **For slightly aggressive ambient applications**
- **Pilot valve for outdoor applications**

Design/Function

Type 6519 NAMUR Ex is a high switch reliable valve, even at full flow restriction for plant engineering.

The valve 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 compact solenoid valve type 6014 with push-over coil is connected as pilot. The NAMUR flange pattern allows easy assembly on different pneumatic actuators on the spot.



Applications

Applications:
- Chemical industry
- Pharmaceutical processing equipment
- Industrial waste water treatment
- Oil and gas industry



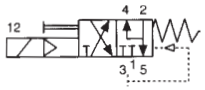
Mechanical System
(Process + Pilot Valve)

bürkert
Fluid Control Systems

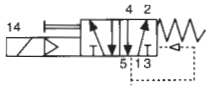
Technical Data Type 6519 NAMUR Ex

Circuit functions

C 3/2-way valve, servo-assisted, with exhaust air return, in de-energized position port 2 exhausted internally



H 5/2-way valve, servo-assisted, in de-energized position port 2 pressurized, port 4 exhausted



Specifications type 6519 NAMUR Ex (EEx m II T5 and T6)

Circuit function	Orifice	Flow rate[1]	Pressure	Response times[3]		Supply port	Service port	Weight	
		Q_{Nn}-Value (air)	range[2]	opening	closing	connection	connection	EEx m II T5/T6	EEx me II T5/T6
	[mm]	[l/min]	[bar]	[ms]	[ms]	1 and 3	2 and 4	[g]	[g]
with moulded-in cable or with terminal box									
H/C (3/2- and-5/2)	6.0	900	2 – 8	25	50	G 1/4	NAMUR flange patt.	650	690

[1] Measured at 6 bar input pressure and 1 bar pressure drop at the valve and at +20˚C.
[2] All pressure data as overpressure to ambient atmospheric pressure.
[3] Measured at connection 2; time from electrical switching to pressure increase to 90% (opening) or pressure drop to 10% (closing) of operational pressure (6 bar).

Valve Specifications

Valve body	Polyamide (PA)
Threaded port material	Brass (nickel-plated) or Stainless Steel
Sealing material	NBR and PUR
Media	Lubricated or unlubricated compressed air, neutral gases, nitrogen, instrument air
Media temperature	–10 up to +55°C
Ambient temperature	–25 up to +55°C

Solenoid Specifications

Operating voltage	24, 110, 230 V/UC
Voltage tolerance	±10%

Power consumption (PC)

Temperature class	T5	T6
Coil size	32 mm	40 mm
PC	3.0 W	1.8 W

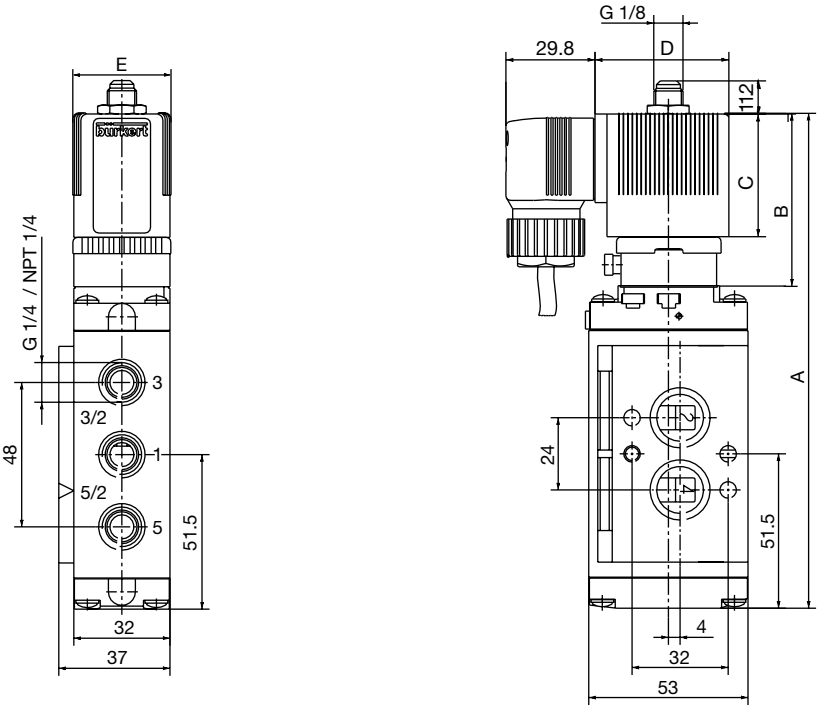
Duty cycle	100% continuously rated
Electr. connection	• 3 m cable, moulded-in • Terminal box
Rating	IP 65
Ex-approval	• EEx m II T5 and T6 (moulded-in cable) • EEx me II T5 and T6 (with terminal box)

Installation

Mounting position	Any, preferably solenoid system upright

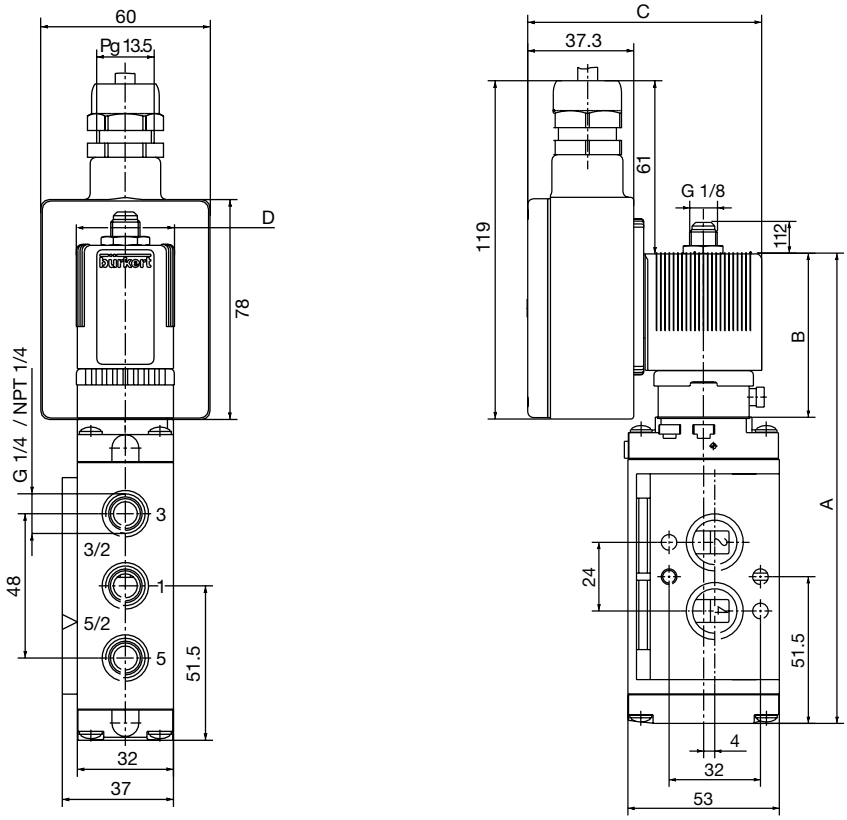
Dimensions [mm]

Type 6519 NAMUR Ex with moulded-in cable (3000 mm length)
Pilot valve type 6014 – push-over coil can be locked in 4 x 90° positions or freely moved in between, as required



	A	B	C	D	E
T5 coil	164.5	57.5	41.0	45.0	32
T6 coil	164.9	57.9	41.4	51.0	40

Type 6519 NAMUR Ex with terminal box
Pilot valve type 6014 – push-over coil can be locked in 4 x 90° positions or freely moved in between, as required



	A	B	C	D
T5 coil	164.5	57.5	82	32
T6 coil	164.9	57.9	88	40

Ordering Chart Type 6519 NAMUR Ex (Other Versions on Request)

Circuit function	Supply port connection 1 and 3	Service port connection 2 and 4	Material port connection	Orifice [mm]	Pressure range [bar]	Body material	Seal material	Ex approval	Item-No. Voltage 024/UC	110/UC	230/UC
with moulded-in cable											
H/C	G 1/4	NAMUR flange	brass*	6.0	2 – 8	PA	NBR+PUR	EEx m II T5	131 627 R	131 628 S	131 629 T
H/C	G 1/4	pattern	SS	6.0	2 – 8	PA	NBR+PUR	EEx m II T5	131 631 M	131 632 N	131 633 P
with terminal box											
H/C	G 1/4	NAMUR flange	brass*	6.0	2 – 8	PA	NBR+PUR	EEx me II T5	427 978 S	139 065 Z	139 066 S
H/C	G 1/4	pattern	SS	6.0	2 – 8	PA	NBR+PUR	EEx me II T5	139 067 T	139 068 C	139 069 D
with moulded-in cable											
H/C	G 1/4	NAMUR flange	brass*	6.0	2 – 8	PA	NBR+PUR	EEx m II T6	425 725 J	426 026 A	426 027 B
H/C	G 1/4	pattern	SS	6.0	2 – 8	PA	NBR+PUR	EEx m II T6	431 442 M	431 443 N	431 444 P
with terminal box											
H/C	G 1/4	NAMUR flange	brass*	6.0	2 – 8	PA	NBR+PUR	EEx me II T6	431 436 F	431 437 G	431 438 R
H/C	G 1/4	pattern	SS	6.0	2 – 8	PA	NBR+PUR	EEx me II T6	431 439 J	431 440 X	431 441 L

* nickel-plated

Ordering Chart Accessories

Accessory part	Characteristics	Item-No.
Blanking screw	G 1/8	780 141 H
Blanking screw	G 1/4	780 142 A
Blanking screw	G 1/2	780 144 C
Silencer	G 1/8	005 305 D
Silencer	G 1/4	005 064 W
Silencer	G 1/2	005 062 U
Indicating tag	64 pieces	635 416 P