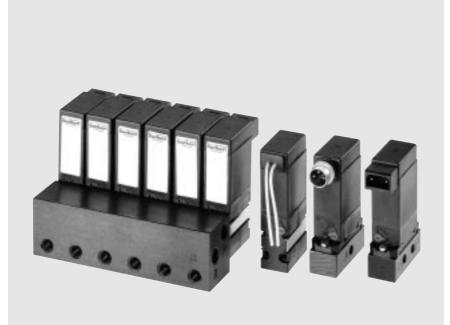
## DN 0,6 mm; 0 -7 bar, sub-base



## Advantages/Benefits

- Long service life, under absolute non-lube conditions
- Simple design, robust and frictionless
- Compact size high flow rate
- PLC-compatible; low power and high drop-out voltage
- Wide choice of fluid and electrical interfaces

# **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 de-energized 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 valves can be driven by a PLC with their low power consumption.

A manual override, which can be operated from both sides of the valve allows easy maintenance and commissioning.

# 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 manifolded assemblies



Technical Data	Туре 6104: 3/2-way		Type 6103: 2/2-way
Circuit Functions	Symbols	Circuit Functions	Symbols
C 3/2-way valve, when de-energized, port A exhausted		<ul> <li>A 2/2-way flow valve, normally closed (corresponds to circuit function with closed port R)</li> </ul>	
D 3/2-way valve, when de-energized, port B pressurized		<ul> <li>B 2/2-way flow valve, normally open (corresponds to circuit function with closed port R)</li> </ul>	

## **Specifications**

Orifice DN	Flow QNn-value air <sup>2)</sup>		Manifold	Pressure range <sup>1)</sup>	Weight	Electr. power consumption	
[mm]	[I/min] 1→A2	[l/min] 2→3		[bar]	[g]	[W]	
	T-AZ	2-73					
0,6	7.0	8.0	Burkert, sub-base, below	0- 7	13	1,0	
0,6	6.0	7.5	Burkert, sub-base, side	0- 7	15	1,0	

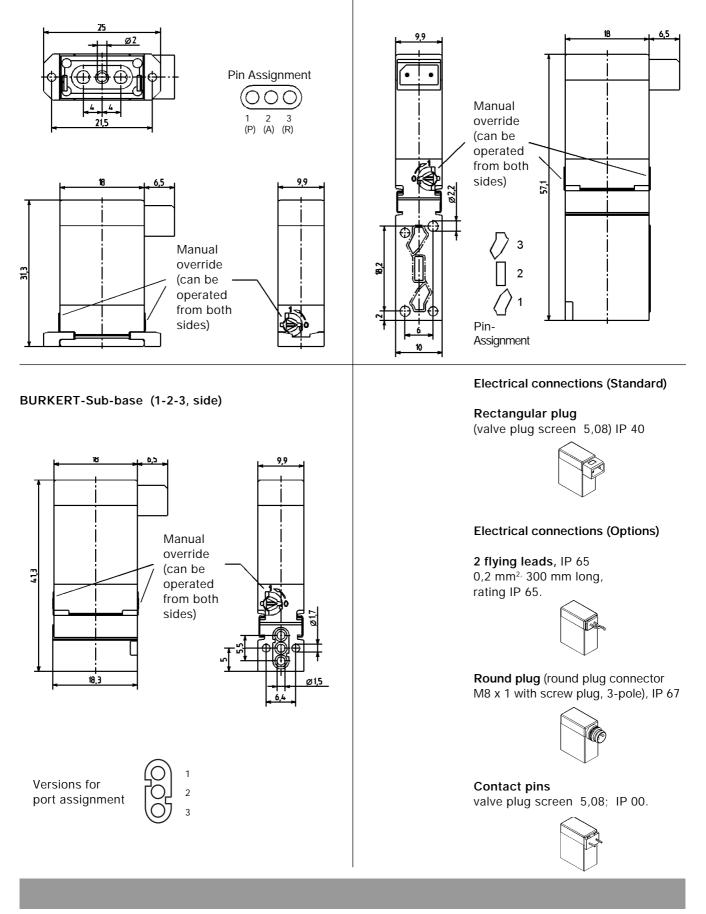
 $^{1)}$  All pressures quoted are gauge pressures with respect to the prevailing atmospheric pressure.  $^{2)}$  Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C.

Valve specifications		Solenoid specificat	ions
Body material Seal material	PA (polyamide) FPM (Viton)	Nominal voltages Voltage tolerance	24 V DC ±10 %
Fluids	lubricated, unlubricated, dry air, neutral gases,	Power consumption	1 W
	(5- $\mu$ m-filter recommended)	Electr. control	PLC-controllable
	for technical vacuum	Cycling rate	1000 c.p.m.
		Duty cycle	100% continuously rated
Ambient temp.	–10 to +55 °C	Rating	IP 40 with rectangular plug IP 65 with flying lead
Fluid temp.	-10 to +55 °C		IP 67 with round plug
Port connection	• BURKERT-		
	sub-base (below)	Protection class 3	to VDE 0580
	• BURKERT-	Electr. connection	(see drawing)
	sub-base (side)	Standard:	rectangular plug;
	<ul> <li>BURKERT-module for sub-base MP01</li> </ul>	Optional:	2 flying leads; round plug;
Response times <sup>3)</sup>			contact pin.
Opening delay time	5 ms		
Opening Closing	14 ms 12 ms		
Closing	12 1115	Installation	
		Installation	as required, but preferably
<sup>3)</sup> The response times of a 3/2-way valve are determined using an end volume of approx. 1 cm <sup>3</sup> . The times are measured at outlet A from			with solenoid system upright
switching on until pressure is Delay time: Time from electric the pressure change.	se to 90% /pressure drops to 10%. cal switch on until the beginning of	Manifolding	with common supply max. 12 valves on special
		Coil spacing	manifolds (as accessory) 11 mm
		· -	

# Dimensions [mm]

BURKERT-Sube-base (below)

Module sub-base (side) for MP01



# Ordering Chart (Other Versions on Request)

#### The valve package includes 2 clamps, 2mounting screws\* and 1 manifold seal

Circuit- function**)	DN	Q <sub>Nn</sub> - Value air		Pressure	Port connection	Voltage	Power Consumption	Item-No.
	[mm]	[l/min]	[l/min]	[bar]				
		1→2	2→3			[V DC]	[W]	
С	0,6	7,0	8,5	0 - 7	Sub-base (below)	24	1	130 167 X
		6,0	7,5		Sub-base (side)	24	1	133 126 D
		6,5	8,0		Module sub-base for MP01	24	1	133 127 E
D	0,6	7,0	8,5	0 - 7	Sub-base (below)	24	1	132 394 R
		6,0	7,5		Sub-base (side)	24	1	133 129 Q
		6,5	8,0		Module sub-base for MP01	24	1	133 130 M

\*) Fixing screws:

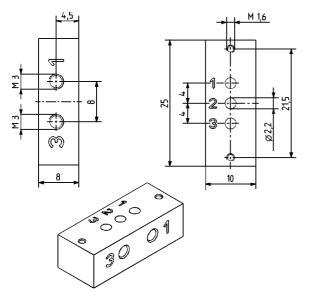
Burkert Sub-base (below): M1,6x5 Burkert-Sub-base (side) 1-2-3 : M1,6x20 Module sub-base : Plastic body M2x22

\*\*) Circuit function A und B (Type 6103) on request.

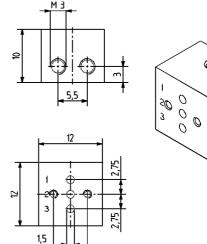
## **Ordering Chart (Accessories)**

Component	Remarks	Item-No.
Seal for sub-base (below)	min. ordering quantity 20 pces.	639 222 G
Seal for sub-base (1-2-3 side)	min. ordering quantity 20 pces.	638 217 B
Single manifold	for sub-base (below), M3	639 873 D
Single manifold	for sub-base 1-2-3 (side)	639 234 C
Multiple manifold	for Burkert- and module-subbase	on request
Rectangular plug	straight, with 3 m cable	133 486 F
Rectangular plug	2 flying leads, 300 mm long	644 068 N

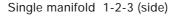
#### Dimensions for single manifolds [mm]



Single manifold (below)



3 0



6,4