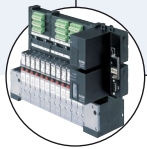




5/2 way Solenoid Valve for pneumatic systems

- Compact design
- Single and manifold mounting
- Low power consumption
- Fast response times

Type 6511 can be combined with...



Type 8640

Valve island



Type 2031

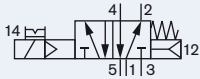




Diaphragm valve

Type 6511 consists of the pilot flipper solenoid valve Type 6144 and a pneumatic seat valve. The Flipper principle allows switching of high pressures with low power consumption and with short switching times. All valves are equipped with manual override as a standard.

Type 6511 is extendable and preferably with a cable plug at the back of the valve island, Type 8640, and with the plug connection at the front of the valve block in the pneumatic control actuators.

Technical data	
Orifice	DN2.5 mm
Body material	PPS, PA
Seal material	NBR, FKM
Medium	Lubricated, oilfree, dry compressed air; Neutral gases (5µm filter recommended)
Medium temperature	0 to +50 °C
Ambient temperature	0 to +55 °C
Manual override	Standard
Port connection	Flange for MP02
Pneumatic module	Type MP02 with M5 or push-in connection Ø4 mm
Voltage tolerance	± 10%
Operating voltages	24 V DC
Nominal power	0.8 W
Duty cycle	Continuous operation (100% ED)
Electr. connection on valve	Rectangular plug, 2 pin, with raster 5.08 mm
Protection class	IP40
Protection class	3 acc. to VDE 0580
Mounting	with 2 self tapping screws for plastic 2 x 20
Installation	As required, preferably with actuator upright
Response times [ms]	Measurement acc. to ISO 12238
Opening	< 15 ms
Closing	< 10 ms

Ordering chart for valves

Circuit function	Orifice [mm]	$Q_{v, \text{in}}$ value air [l/min] ²⁾	Pressure range [bar] ³⁾	Voltage/Frequency [V/Hz]	Manual override	Article no. plug contact at rear ³⁾ for Valve island Type 8640	Article no. Plug contact at front ⁴⁾ for valve block
H 5/2 way valve 	2.5	130	2.5 - 10	24 V DC	with	187604 	184315 
					none	184310 	187603 








¹⁾ Measured at +20 °C, 6 bar pressure at valve inlet and 1 bar pressure difference







²⁾ Measured as overpressure to the atmospheric pressure

³⁾ At rear: Plug connection on flange side








⁴⁾ In front: Plug connection offset at 180° to flange

Ordering chart for pneumatic module, Type MP02 (for 5/2 way valves)

Module Type MP02	Article no.
Connector module right, G 1/8	135008 
Connector module right, NPT 1/8	134743 
Connector module right, push-in connection Ø 8 mm	135009 
Connector module left, G 1/8	135005 
Connector module left, NPT 1/8	134742 
Connector module left, push-in connection Ø 8 mm	135006 
Connector module without supply, left	135007 

Module Type MP02	Article no.
Basic module 2 valves, M5	135010 
Basic module 2 valves, push-in connection	135011 
Basic module 3 valves, M5	135012 
Basic module 3 valves, push-in connection	134744 
Basic module 12 valves, M5	135013 
Basic module 12 valves, push-in connection	135014 






Ordering chart for accessories

Version	Features	Article no.
Closing plug	for plug-in coupling Ø 4 mm	781664 
Blanking plug	G 1/8	631019 
Silencer	G 1/8	005305 
Covering plate, complete	for non-configured valve position on MP02	642029 
Rectangular cable plug	with 3 m cable	133486 
Rectangular cable plug	with 300 mm flying leads	644068 
Rectangular cable plug	with 2 single contacts	644067 

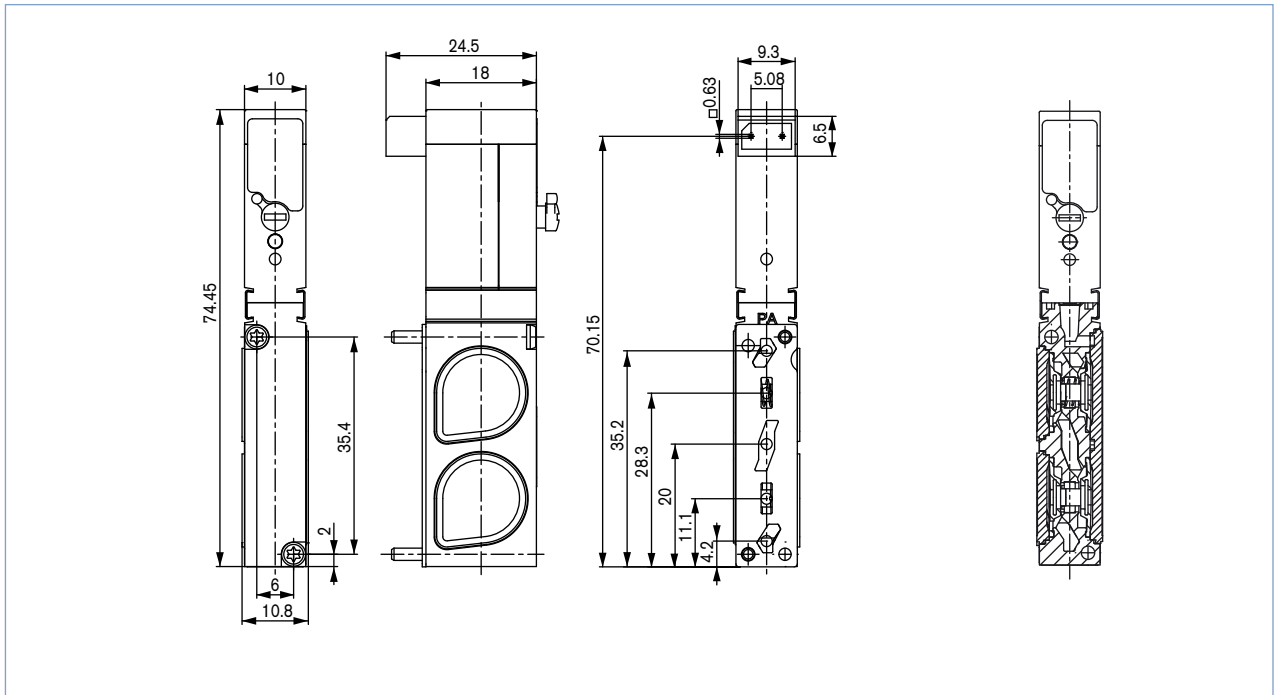
Note for ordering complete valve block

Please order the modules for block assembly from right to left according to the example

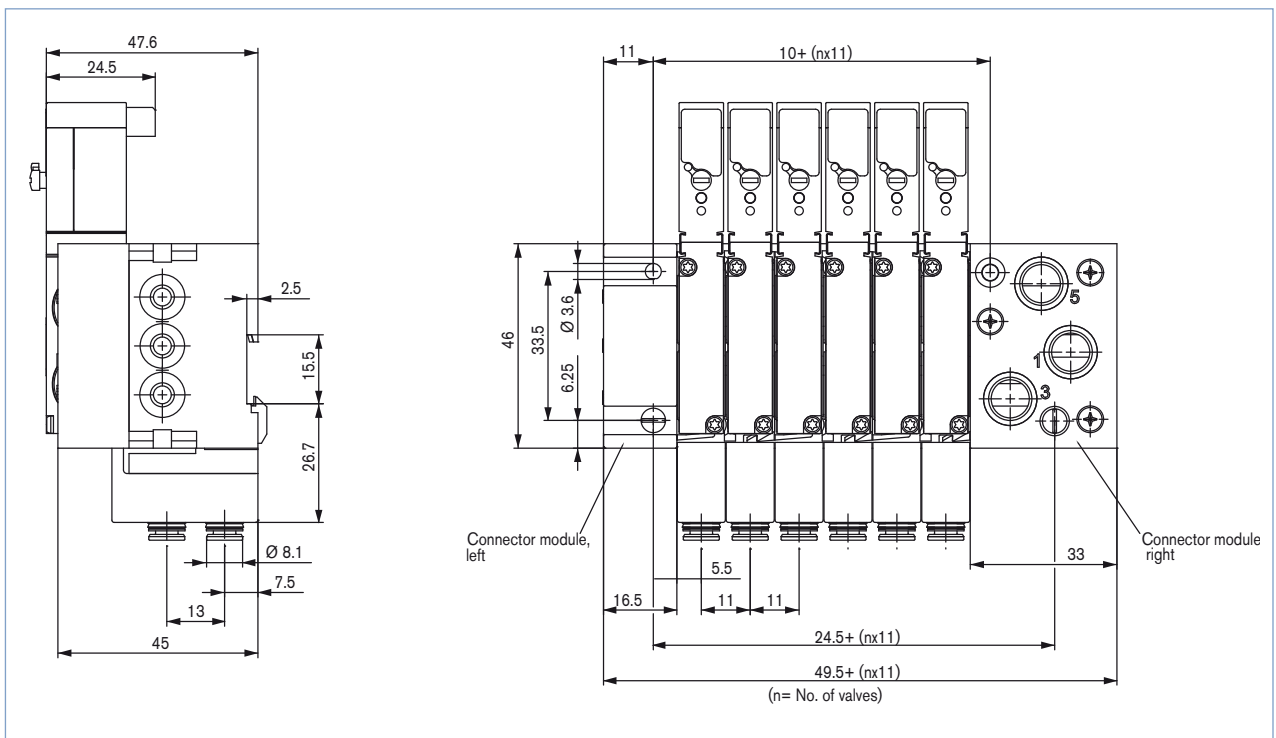
Ordering example: Type 6511 with Type MP02

Pieces	Unit	Article no.
1	Connector module right, G 1/8	135008 
1	Basic module 2 valves, push-in connection	135011 
1	Basic module 3 valves, push-in connection	135744 
1	Connector module left, G 1/8	135005 
5	Valves	134283 

Dimensions 5/2 way Solenoid Valve [mm]



manifold mounting on wall or with DIN/EN rail 50045



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In case of special application conditions, please consult for advice.

Subject to alterations
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