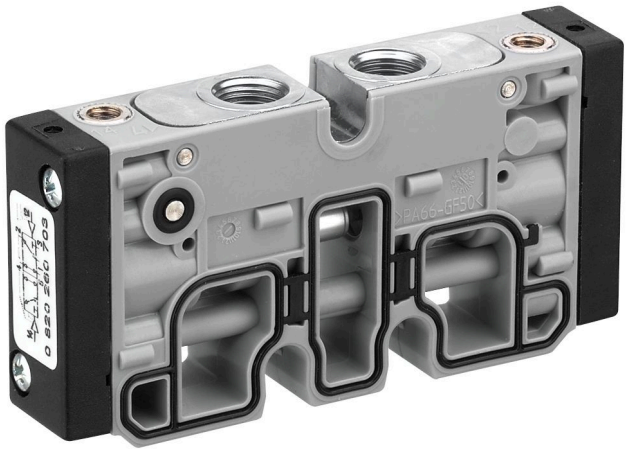
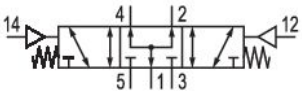
5/3-directional valve, Series TC08

2024-07-31

0820261703

AVENTICS Series TC08 Directional valves





Technical data

Industry	Industrial
Activation	Pneumatically
Valve type	Spool valve, positive overlapping
Valve function	Pressurized Center
Sealing principle	Soft seal
Connection type	Plate connection Pipe connection
Compressed air connection input	G 1/8
Compressed air connection output	G 1/8
Compressed air connection, exhaust	G 1/8
Compressed air connection pilot input	M5
Nominal flow Qn	700 l/min
Flow conductance b	0.34
Flow conductance C	3 l/(s*bar)
Min. working pressure	-0.9 bar
Max. working pressure	10 bar

Min. control pressure	3 bar
Max. control pressure	10 bar
Pilot	External
Blocking principle	Plate principle
Min. ambient temperature	-10 °C
Max. ambient temperature	50 °C
Min. medium temperature	-10 °C
Max. medium temperature	50 °C
Medium	Compressed air
Min. oil content of compressed air	0 mg/m³
Max. oil content of compressed air	5 mg/m³
Max. particle size	5 µm
Weight	0.092 kg

Material

Housing material	Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber
Material, front cover	Polyamide fiber-glass reinforced
Material threaded bushing	Brass Die cast zinc
Surface threaded bushing	chrome-plated nickel-plated
Part No.	0820261703

Technical information

Caution: The minimum control pressure depends on the working pressure (see "Control pressure" diagram below).

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

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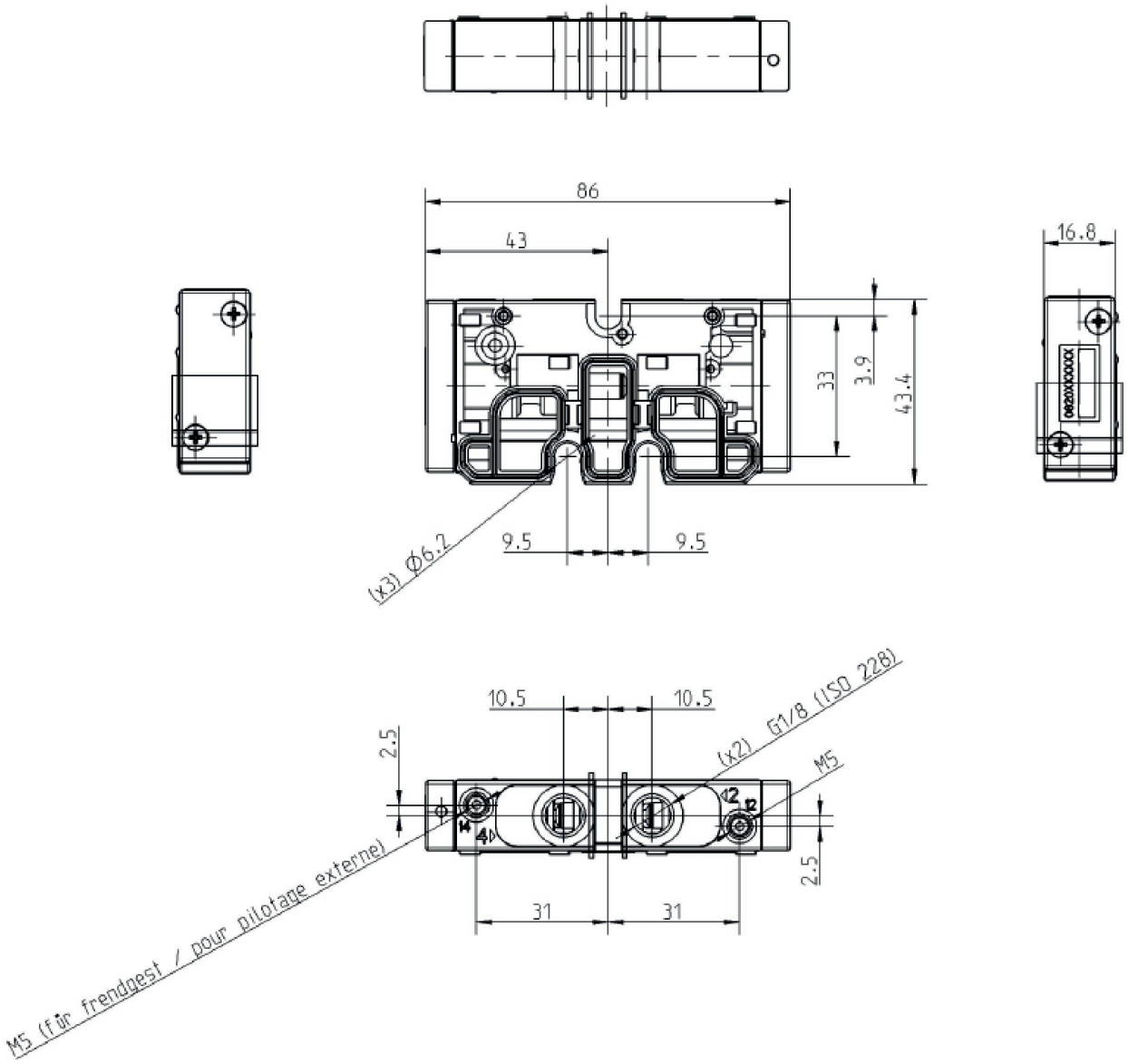
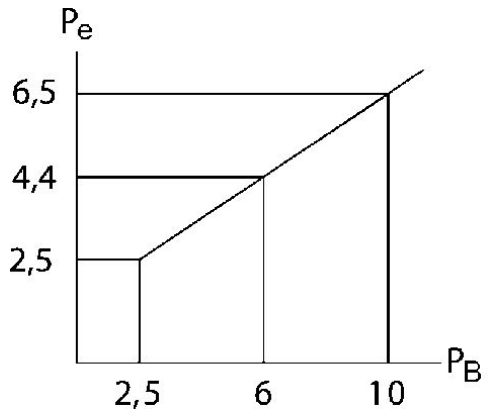


Control pressure



Pe = external control pressure, min.
P_B = Working pressure