

3/2-directional valve, Series ST

- 3/2
- $Q_n = 280 \text{ l/min}$
- Pilot valve width : 15 mm
- NC/NC
- Pipe connection
- Compressed air connection output : G 1/8
- Electrical connection : Plug, ISO 15217, form C
- Manual override : without detent with detent
- single solenoid
- With spring return
- Pilot : Internal



Type	Spool valve
Activation	Electrically
Pilot	Internal
Sealing principle	metal/metal sealing
Working pressure min./max.	2 ... 10 bar
Control pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	5 ... 25 mg/m ³
Nominal flow Q_n	280 l/min
Protection class with connection	IP65
Duty cycle	100 %
mounting screws	M4 with hexagon socket
Mounting screw tightening torque	2,5 Nm
Tightening torque tolerance	±0,5
Weight	0,22 kg

Technical data

Part No.		MO		Compressed air connection	
				Input	
0820031055			NC/NC	G 1/8	
0820031053			NC/NC	G 1/8	
0820031051			NC/NC	G 1/8	
0820031052			NC/NC	G 1/8	
0820031054			NC/NC	G 1/8	
0820031050			NC/NC	G 1/8	
0820031065			NC/NC	G 1/8	
0820031063			NC/NC	G 1/8	
0820031061			NC/NC	G 1/8	
0820031062			NC/NC	G 1/8	
0820031064			NC/NC	G 1/8	
0820031060			NC/NC	G 1/8	

Part No.	Compressed air connection	Compressed air connection
	Output	Exhaust
0820031055	G 1/8	G 1/8
0820031053	G 1/8	G 1/8
0820031051	G 1/8	G 1/8
0820031052	G 1/8	G 1/8
0820031054	G 1/8	G 1/8
0820031050	G 1/8	G 1/8
0820031065	G 1/8	G 1/8
0820031063	G 1/8	G 1/8
0820031061	G 1/8	G 1/8
0820031062	G 1/8	G 1/8
0820031064	G 1/8	G 1/8
0820031060	G 1/8	G 1/8

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
0820031055	12 V	-	-
0820031053	-	24 V	-
0820031051	24 V	-	-
0820031052	24 V	-	-
0820031054	-	-	110 V
0820031050	-	230 V	-
0820031065	12 V	-	-
0820031063	-	24 V	-
0820031061	24 V	-	-
0820031062	24 V	-	-
0820031064	-	-	110 V
0820031060	-	230 V	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
0820031055	-10% / +10%	-	-	2 W
0820031053	-	-10% / +10%	-	-
0820031051	-10% / +10%	-	-	2 W
0820031052	-10% / +10%	-	-	1 W
0820031054	-	-	-10% / +10%	-
0820031050	-	-10% / +10%	-	-
0820031065	-10% / +10%	-	-	2 W
0820031063	-	-10% / +10%	-	-
0820031061	-10% / +10%	-	-	2 W
0820031062	-10% / +10%	-	-	1 W
0820031064	-	-	-10% / +10%	-
0820031060	-	-10% / +10%	-	-

Part No.	Holding power	Holding power	Switch-on power	Switch-on power
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
0820031055	-	-	-	-
0820031053	1,6 VA	-	2,2 VA	-
0820031051	-	-	-	-
0820031052	-	-	-	-
0820031054	-	1,4 VA	-	2 VA
0820031050	1,6 VA	-	2,2 VA	-
0820031065	-	-	-	-
0820031063	1,6 VA	-	2,2 VA	-
0820031061	-	-	-	-
0820031062	-	-	-	-
0820031064	-	1,4 VA	-	2 VA
0820031060	1,6 VA	-	2,2 VA	-

Part No.	Typ. switch-on time	Typ. switch-off time	
0820031055	13 ms	18 ms	-
0820031053	-	-	-
0820031051	13 ms	18 ms	-
0820031052	14 ms	20 ms	1)
0820031054	-	-	-
0820031050	-	-	-
0820031065	13 ms	18 ms	-
0820031063	-	-	-
0820031061	13 ms	18 ms	-
0820031062	-	-	1)
0820031064	-	-	-
0820031060	-	-	-

Nominal flow Q_n at 6 bar and Δp = 1 bar, MO = Manual override

1) Low power consumption

Technical information

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 under 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 the MediaCentre).

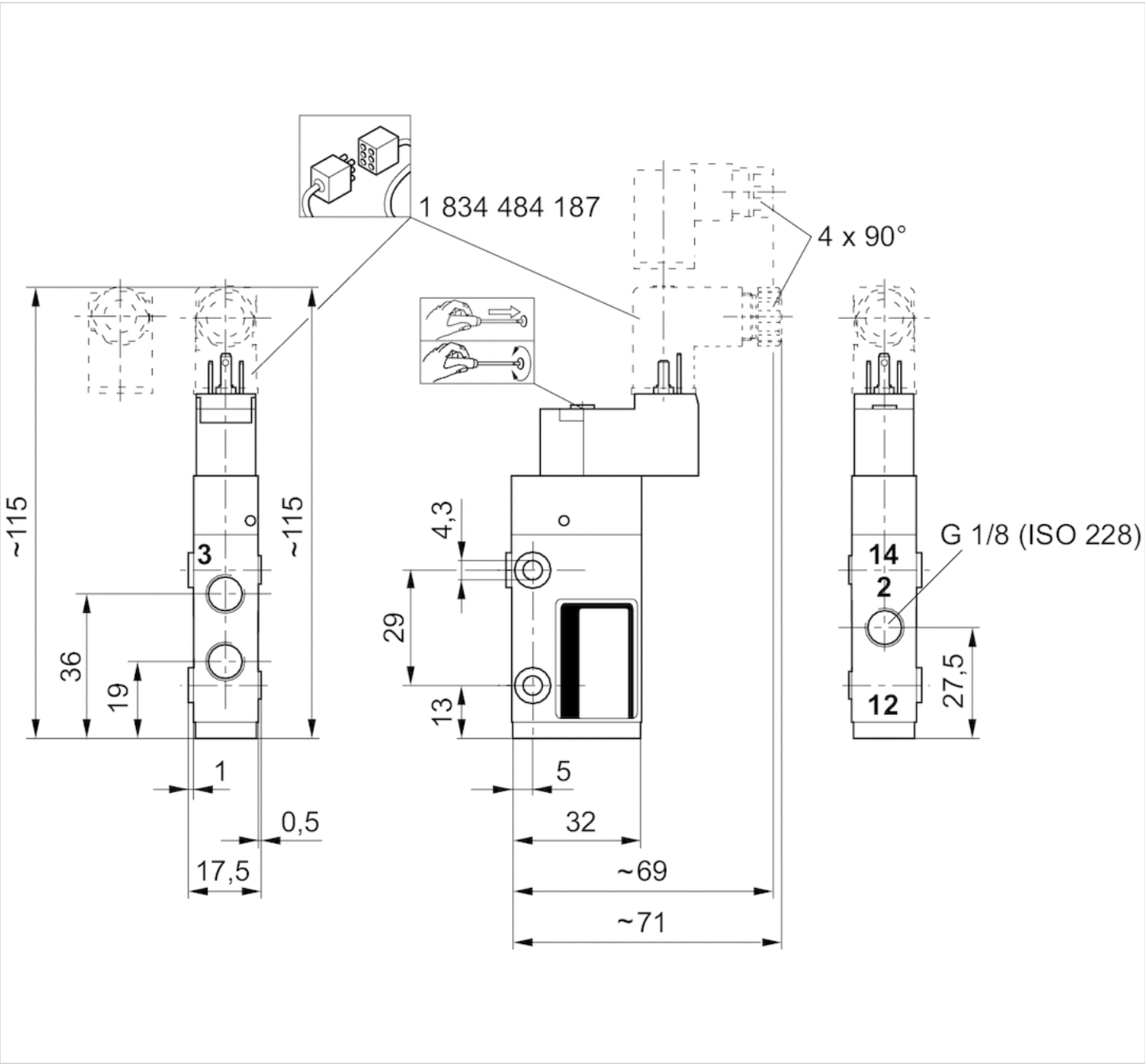
Notice: This product may only be operated with oiled compressed air.

Technical information

Material	
Housing	Stainless steel, hardened
Seals	Acrylonitrile butadiene rubber
Front plate	Aluminum, hard-anodized
End plate	Polyamide

Dimensions

Dimensions



Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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