

5/3-directional valve, Series WV02

- 5/3
- Qn = 250-400 l/min
- Pilot valve width : 15 mm
- closed center exhausted center pressurized center
- Pipe connection
- Compressed air connection output : G 1/8
- Electrical connection : Plug, ISO 15217, form C
- Manual override : without detent
- Pilot : Internal



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	Internal
Sealing principle	Soft sealing
Working pressure min./max.	2,2 ... 10 bar
Control pressure min./max.	2,2 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	See table below
Connector standard	ISO 15217
Protection class with connection	IP65
Duty cycle	100 %
Mounting on manifold strip	PRS strip
mounting screws	M3
Weight	0,17 kg

Technical data

Part No.		MO		Compressed air connection	
				Input	
0820039018			closed center	G 1/8	
0820039016			closed center	G 1/8	
0820039017			closed center	G 1/8	
0820039019			closed center	G 1/8	
0820039015			closed center	G 1/8	
0820039033			exhausted center	G 1/8	
0820039031			exhausted center	G 1/8	
0820039032			exhausted center	G 1/8	
0820039034			exhausted center	G 1/8	
0820039030			exhausted center	G 1/8	
0820039063			pressurized center	G 1/8	
0820039061			pressurized center	G 1/8	
0820039062			pressurized center	G 1/8	
0820039064			pressurized center	G 1/8	
0820039060			pressurized center	G 1/8	

Part No.	Compressed air connection	Operational voltage	Operational voltage
	Output	DC	AC 50 Hz
0820039018	G 1/8	-	24 V
0820039016	G 1/8	24 V	-
0820039017	G 1/8	24 V	-
0820039019	G 1/8	-	110 V
0820039015	G 1/8	-	230 V
0820039033	G 1/8	-	24 V
0820039031	G 1/8	24 V	-
0820039032	G 1/8	24 V	-
0820039034	G 1/8	-	110 V
0820039030	G 1/8	-	230 V
0820039063	G 1/8	-	24 V
0820039061	G 1/8	24 V	-
0820039062	G 1/8	24 V	-
0820039064	G 1/8	-	110 V
0820039060	G 1/8	-	230 V

Part No.	Operational voltage	Voltage tolerance		
		DC	AC 50 Hz	AC 60 Hz
0820039018	24 V	-	-10% / +10%	-10% / +10%
0820039016	-	-10% / +10%	-	-
0820039017	-	-10% / +10%	-	-
0820039019	110 V	-	-10% / +10%	-10% / +10%
0820039015	230 V	-	-10% / +10%	-10% / +10%
0820039033	24 V	-	-10% / +10%	-10% / +10%
0820039031	-	-10% / +10%	-	-
0820039032	-	-10% / +10%	-	-

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
0820039034	110 V	-	-10% / +10%	-10% / +10%
0820039030	230 V	-	-10% / +10%	-10% / +10%
0820039063	24 V	-	-10% / +10%	-10% / +10%
0820039061	-	-10% / +10%	-	-
0820039062	-	-10% / +10%	-	-
0820039064	110 V	-	-10% / +10%	-10% / +10%
0820039060	230 V	-	-10% / +10%	-10% / +10%

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
0820039018	-	1,6 VA	1,4 VA	2,2 VA
0820039016	2 W	-	-	-
0820039017	1 W	-	-	-
0820039019	-	1,6 VA	1,4 VA	2,2 VA
0820039015	-	1,6 VA	1,4 VA	2,2 VA
0820039033	-	1,6 VA	1,4 VA	2,2 VA
0820039031	2 W	-	-	-
0820039032	1 W	-	-	-
0820039034	-	1,6 VA	1,4 VA	2,2 VA
0820039030	-	1,6 VA	1,4 VA	2,2 VA
0820039063	-	1,6 VA	1,4 VA	2,2 VA
0820039061	2 W	-	-	-
0820039062	1 W	-	-	-
0820039064	-	1,6 VA	1,4 VA	2,2 VA
0820039060	-	1,6 VA	1,4 VA	2,2 VA

Part No.	Switch-on power	Nominal flow Q _n	Typ. switch-on time	Typ. switch-off time	
	AC 60 Hz				
0820039018	2 VA	400 l/min	9 ms	20 ms	-
0820039016	-	400 l/min	9 ms	20 ms	-
0820039017	-	400 l/min	11 ms	23 ms	1)
0820039019	2 VA	400 l/min	9 ms	20 ms	-
0820039015	2 VA	400 l/min	9 ms	20 ms	-
0820039033	2 VA	250 l/min	9 ms	20 ms	-
0820039031	-	250 l/min	9 ms	20 ms	-
0820039032	-	250 l/min	11 ms	23 ms	1)
0820039034	2 VA	250 l/min	9 ms	20 ms	-
0820039030	2 VA	250 l/min	9 ms	20 ms	-
0820039063	2 VA	250 l/min	9 ms	20 ms	-
0820039061	-	250 l/min	9 ms	20 ms	-
0820039062	-	250 l/min	11 ms	23 ms	1)
0820039064	2 VA	250 l/min	9 ms	20 ms	-
0820039060	2 VA	250 l/min	9 ms	20 ms	-

1) Low power consumption

Technical information

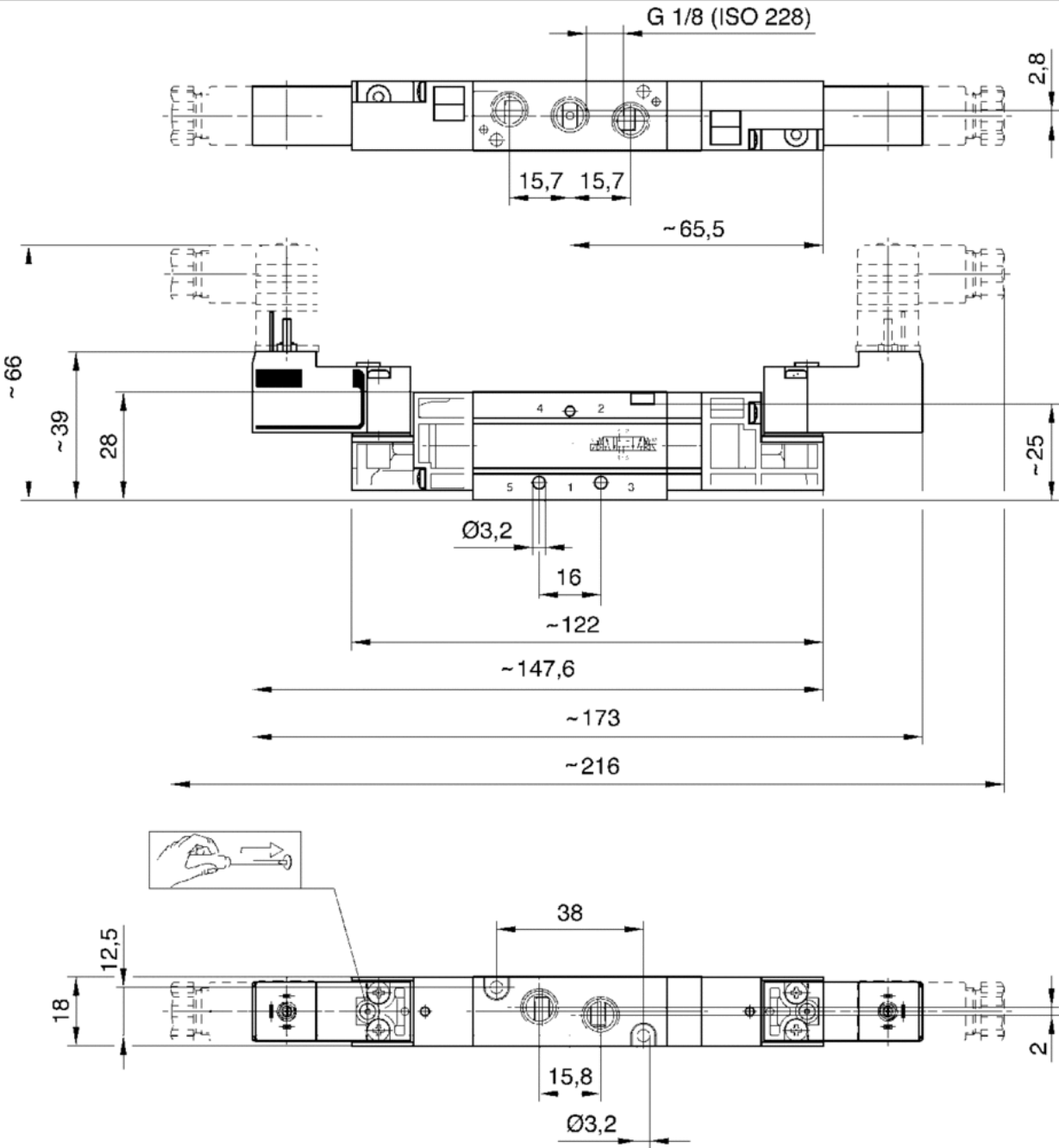
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

Technical information

Material	
Housing	Aluminum, anodized
Seals	Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide
Threaded bushing	Aluminum

Dimensions

Dimensions



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



Visit us: [Emerson.com/Aventics](https://www.emerson.com/Aventics)

Your local contact: [Emerson.com/contactus](https://www.emerson.com/contactus)



Emerson.com



Facebook.com/EmersonAutomationSolutions



LinkedIn.com/company/Emerson-Automation-Solutions



Twitter.com/EMR_Automation

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. This Document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS GmbH. It may not be reproduced or given to third parties without its consent. Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product. Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product. The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgement and verification. It must be remembered that the products are subject to a natural process of wear and aging.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Brand logotype are registered trademarks of one of the Emerson family of companies. All other marks are the property of their respective owners. © 2020 Emerson Electric Co. All rights reserved.
2020-12



CONSIDER IT SOLVED™