Technical Data

Function:	2/2 solenoid valve closed when de-energized.			
Design:	Pilot operated poppet valve with magnalift.			
Mounting:	For direct pipe mounting or with the help of M5x6 mm screw (see dimensions).			
Mounting position:	Indifferent.			
Material specifications:	Forged brass body. Internal parts in stainless steel. Sealing material in PUR.			
Range of admissible pressure drop:	Δp min. = 0 bar Δp max. = 7 bar			
Response time (see p. 2)**:**	Conditions: voltage **24 VDC** nominal, flow 34 Nm^3/h. **Reference** pressure dynamic (orifice 2): 4.5 bar. Response times are increasing above starting from 300 millions cycles.			
Switching on:	**TE on: 9.5 - 12 ms** Electrical response time until the plunger is in fully attracted position. **T on: 10-14 ms** Filling time until the pressure has reached 50% of output pressure P2 (own volume of the valve, outlet port plugged.)			
Switching off:	**TD off: 4 - 8 ms** Closing time until the plunger is in the rest position. **T off: 5,5 - 9,5 ms** Emptying time until the pressure has dropped to 50% of P2 pressure. This response time is depending on user at the outlet port.			
Cycling rate:	Up to 30 Hz.			
Life expectancy:	> 500 millions cycles Conditions: Instrumentation dryed and filtered air at 20 µm, (dew point +2°C). P max. 5 bar nominal voltage 24 VDC vibrations 5 to 500 Hz.			
Media:	Instrumentation air (dryed and unlubricated) filtered at 20 µm.			
Fluid temperature:	Min. 0°C. Max. + 40°C.			
Ambient temperature:	0°C to +50°C.			
Vibrations:	Up to 1500 Hz, max. shocks 10 g. At max. vibration rating, life expectancy will decrease.			
Electrical part:	**32 mm coil 483816 (14W DC)** encapsulated in synthetic material. Connection with 3 pin DIN 43650 type A plug connector, degree of protection IP 65.			
Solenoid duty:	Relative duty time: 80% max. for cycle 30 Hz (33ms). 70% max. for cycle 20 Hz (50ms). 55% max. for cycle 10 Hz (100ms). 25% max. for cycle 1 hour (this valve can not work at ED 100%). x % = $\frac{\text{Energized time}}{\text{Cycle time}} \div 100$			
Housing:	3 possibilities 2994/2995/299560.			
Voltage:	24 V DC.			
Voltage tolerance:	±10%.			
Class of insulation material:	Class F (155 °C).			
Part kit:	Nothing available			
Port Size: G		3/8		
Orifice: mm		8		
Qmax: Nm^3/h		40		
Admissible differential pressure: bar	min. Max.	0 7		
Maximum admissible fluid temperature: C°	Air	40		
References N°:	Valve Housing Coil	**221 J 3311** 2994 483816	2995	299560
Power consumption: W		14		
Weight: g		360		

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