Pinch valve, valve housing from high performance plastic 2/2-way, NO (normally open)



A.u.K. Müller

Solenoid valves Control valves Special valves and systems

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Series 16.003.625



Description

Series 16.003.625 hose clamp valves in NO mode are equipped with a 9.5 W solenoid coil. Therefore, it exhibits a clamping force between 10 and 30 N per opening condition and is applicable for flexible tubes with a wall thickness of 1 mm with an outer diameter up to 5,0 mm and a shore hardness of 60°. With these tubing specifications, pressures up to 1,5 bar can be switched.

The valve with a valve housing made of a high-performance plastic is an inexpensive alternative to the valve types 16.003.225 with aluminum housing. In addition the valve offers the advantage of smaller height and lower weight.

The flow of the medium is controlled by pinching the inserted tube. This design avoids using the traditional valve seat and membrane which can cause turbulence in the fluid flow and create dead areas in the valve housing where medium or dirt can collect.

The valve is particularly suitable for applications where a high level of hygiene is required.

The resistance against media temperature and chemicals depends on the selected material of the tube.

The pinch valves can be used in any mounting position.

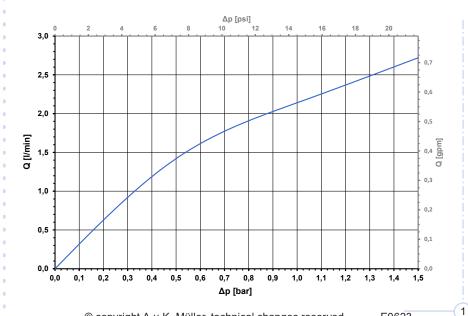
Applications

- dosage systems
- laboratory analysis
- medical equipment
 - vending machines

Characteristics

- medium completely separated from valve parts
- chemical resistance depends on the material of the tube in use
- tube can easily be changed
- no dead areas as in usual valve body
- flow in either direction
 - coil can be fixed in 4 x 90 ° positions
- function provides high reliability and run time

Typical Performance Curve Silicone tube 3x1; 60°Sh; length 30 cm (squeezed in the middle) Medium: Water at 25°C; Free Outlet



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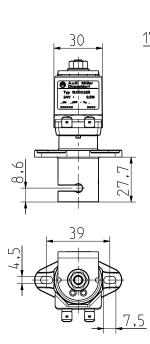
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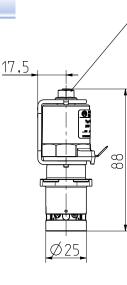


tightening torque max. 2 Nm

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Materials			
Valve body and fixing flange	PA 6, glass fibre reinforced		
Plunger guide	stainless steel		
Plunger and spring	stainless steel		
Coil coating	PBT		

Тес	chnical	Data		
Туре	pinch valve			
Construction	2/2-way solenoid valve, direct acting			
Function	NO (normall	y open)		
Fitting position	any			
Media	depends on tube			
T-Medium	up to 90 (up to 194	°C °F max.)		
T-Ambient	-10 - +50 (14 - 122	°C °F)		
p-Operating	0 - 1,5 bar (0 - 21,76 psi) (depending on tube)			
Coil type	MS 06, MS 24, MS 25			
Nominal voltages	24	V DC		
	other voltages on request			
Voltage tolerance	+10%/-15%			
Duty cycle	80 % (4 min	ON / 1 min OFF)		
Clamping force	between 10 N opened and 30 N closed at 400 mA			
Protection Type	IP 00			
Coil connections	flat tabs 6,3 x 0,8 mm (IP00)			
Insulation class	F	according to EN 60730		

Coils					
•		MS 06	MS 24	MS 25	
Protection Type according to ISO 206653 / DIN EN 60529		IP 00	IP 65	IP 65/68	
Protection class DIN EN 61140 / DIN EN 60730	I with protective conductor system		-	-	
	II with reinforced insulation				
	III for SELV or PELV	$\langle \rangle$	$\langle \rangle$	$\langle \!\!\!\!\!\!\!\!\!\!\rangle$	

Options						
I.D.Ø	0.D. Ø	Wall Thickness	Shore- Hardness	Nominal power consumption / W	ID	Coil
3,0	5,0	1,0	60°±5°	9,5	52177	MS 06

Range of possible outer diameter (O.D.Ø) of tube: 4,0 - 5,0 mm. The wall thickness should not deviate from the one given in the upper table. The valve may only be operated with inserted tube.

