Pinch Valve, 3/2-Way

Series 16.006.330



A.u.K. Müller

Solenoid valves
Control valves
Special valves and systems

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Characteristics

- Medium completely separated from valve parts
- Chemical resistance depends on the material of the tube selected
- Tube can easily be changed
- No dead areas as in usual valve body
- Flow in either direction
- Coil can be fixed in any position through 360°
- Function provides high reliability and run time

Applications

- Dosage systems
- Laboratory analysis
- Medical equipment
- Vending machines

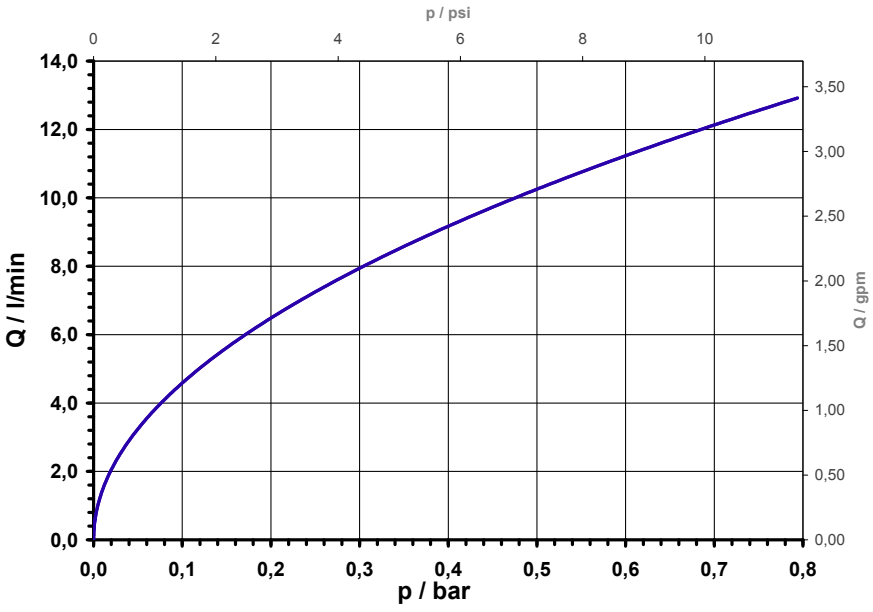
Description

The 3/2-way pinch valves of series 16.006.330 are equipped with a 20 W solenoid coil. Therefore, it exhibits a clamping force of 8,5 N and is applicable for flexible tubes with an outer diameter up to 9,0 mm and a shore hardness of 50-60°. With these tubing specifications, pressures up to 1,0 bar can be switched.

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.

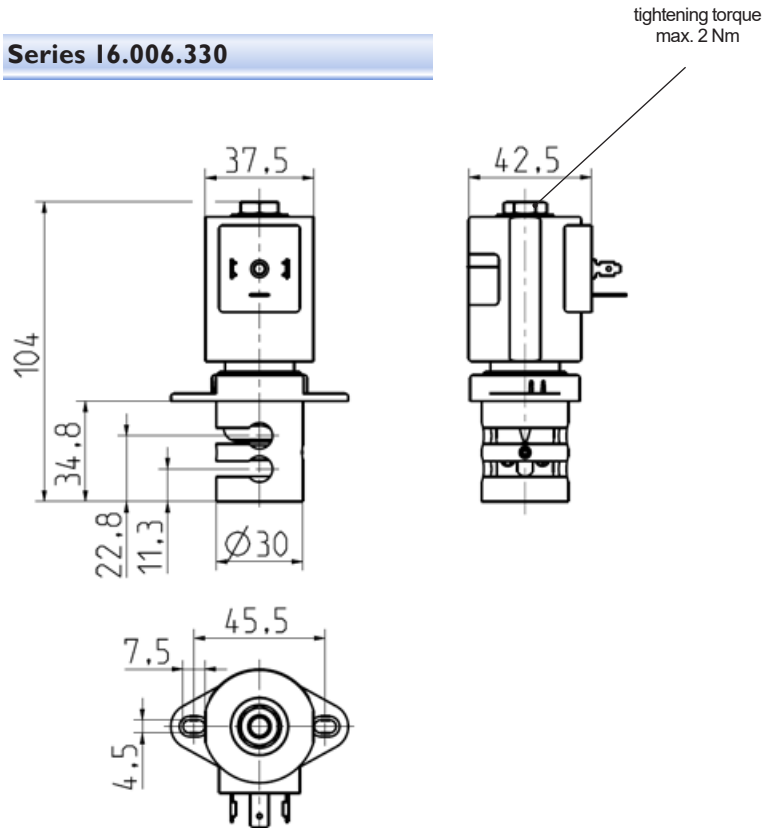
The resistance against chemicals depends on the selected material of the tube.

Typical Performance Curve
Silicone tube 6,0x1,0; 60°Sh; length 30cm
Medium: Water at 25°C; Free Outlet



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Series 16.006.330

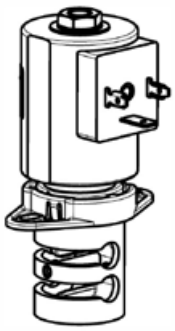


Technical Data

Type	pinch valve	
Construction	3/2-way solenoid valve, direct acting	
Function	NO or NC selectable	
Fitting position	any	
Media	depends on tube	
T-Medium	90 (194	°C max. °F max.)
T-Ambient	-10 – +60 (14 – 140	°C °F)
p-Operating	0 - 1,0 bar (0 - 14,5 psi) (depending on tube)	
Coil type	MS 44-01	
Nominal voltages	24	V DC
	other voltages on request	
Voltage tolerance	±10%	
Duty cycle	100%	
Protection Type	IP 65	
Coil connections	plug socket according to EN 175301-803 (IP65)	
Insulation class	H	according to EN 60730

Materials

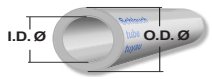
Valve body	aluminium (surface refined)
Fixing flange	PA 66, glass fibre reinforced
Plunger guide	stainless steel, PTFE
Plunger and spring	stainless steel
Coil coating	PA 6, glass fibre reinforced



Options

I.D. Ø	O.D. Ø	Wall Thickness	Shore-Hardness	Clamping Force / N	Nominal Power Consumption / W	Pressure Range / bar	ID
4,0	7,0	1,5	60±5°	8,5	20	0 - 0,6	052169
5,0	7,0	1,0				0 - 1,0	
6,0	8,0	1,0				0 - 0,8	
6,0	9,0	1,5				0 - 0,4	

Range of possible outer diameter (O.D.Ø) of tube: 7,0 - 9,0 mm.
The wall thickness should not deviate from the one given in the upper table.
The valve may only be operated with inserted tubes.



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