ASCO™ STEPPER MOTOR PINCH VALVE
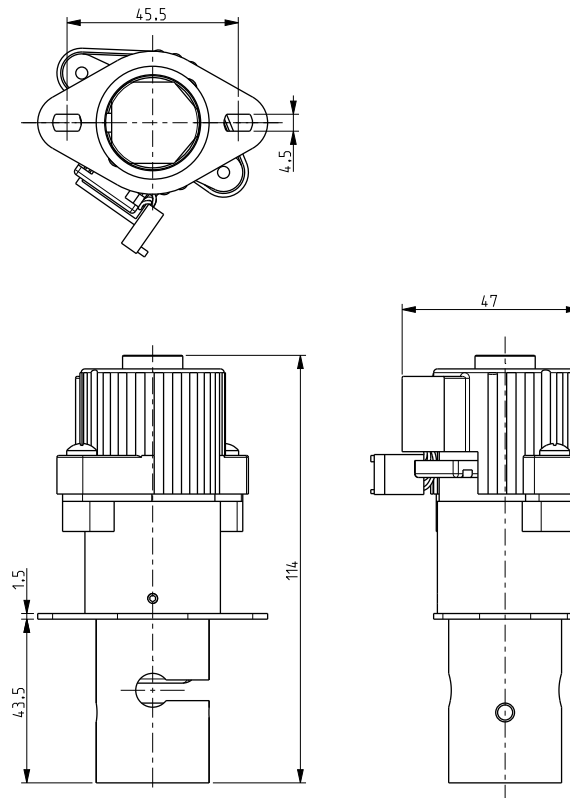## 2-WAY

General Features

Stepper motor pinch valve, suitable to shut off media without producing neither turbulent flows, nor dead spaces. Particularly suitable for most of the analytical, medical and food applications.

If equipped with fitting control electronics, the valve can perform ON-OFF functions, as well as analog input and potentiometer control.
The system allows a bi-directional through flow and a high flow rate.
The valve is suitable for elastic tubings with hardness up to 90 Shore A.
The tubing (not included in our supply) **is the only material in contact with the fluid.**

Materials (of the pinching device)	
Body	Anodized aluminium
Pinching device	POM (reinforced acetal copolymer)
Internal components	Brass and stainless steel

Electric Features	
Power supply	12V DC
Continuous duty	ED 100%
Minimum Step	0.033mm/step
Insulation class	B (130°C)
Drive methods	1-2 phase
Drive circuit	BIPOLAR CHOPPER
Windings resistance	24 Ω
Current / phase	500 mA
Ambient temperature	-10°C +60°C
Electric connection	Molex pitch 2.54mm 4 pins
Protection degree	IP 40 (DIN40050)

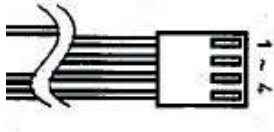| TUBINGS	Pinching strength (N)	Speed for closing valve (mm/s)	Series and type	Power absorption (W)	Notes	Weight (kg)
Max O.D. (mm)			Valve	In operation		
9,5	up to 80N	3,33	S170XA01X0900XX	9	-	0.22

Notes
- Some data, e.g. actuating time and power absorption, are directly depending on the electronic control and can vary accordingly
- For the use of a tubing with outside diameter smaller than 6mm, it is necessary to install the tubing guide sleeve (drawing K29501)

STEPPER MOTOR WIRING

PIN NO.	WIRE COLOR	MOTOR
1	YELLOW	B3
2	ORANGE	B1
3	BROWN	A3
4	BLACK	A1

WIRE COLOUR CODE

HEAD SPINDLE IN				
CONNECTOR PIN NO.	**STEP**			
	1	**2**	**3**	**4**
1	+	+	-	-
2	-	-	+	+
3	-	+	+	-
4	+	-	-	+

HEAD SPINDLE OUT				
CONNECTOR PIN NO.	**STEP**			
	1	**2**	**3**	**4**
1	-	-	+	+
2	+	+	-	-
3	-	+	+	-
4	+	-	-	+