

# Pinch Control Valve for endless tubes with integrated positioner 7077 DN6 up to DN14

Pneumatically operated control valves for applications in chemistry, food industry and pharmaceuticals.

- Integrated positioner
- Fast and simple change of tube
- Cavity free can be sterilized using steam or hot gas
- No fluid contact to the valve
- working pressure up to 4 bar

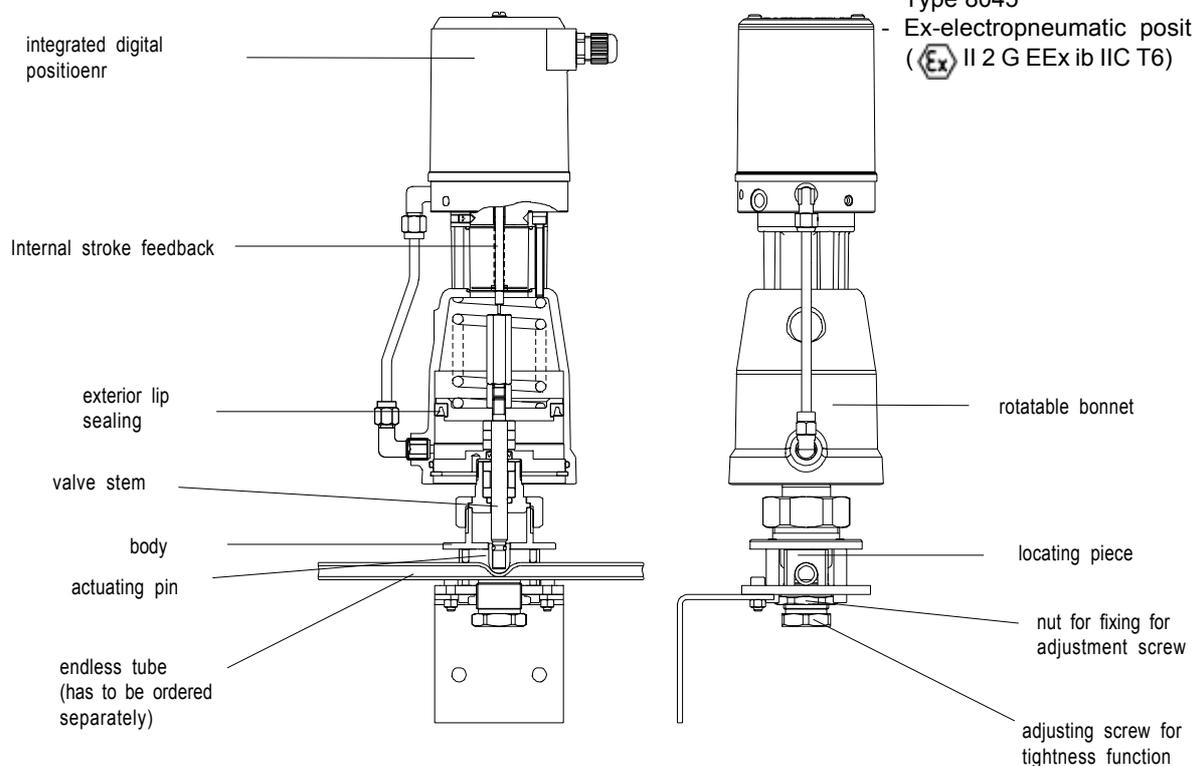


**Type 7077 with digital positioner Type 8048**

**Options:**

e.g.:

- Optical position indicator
- External I/P-converter Type 8045
- Ex-electropneumatic positioner (Ex II 2 G EEx ib IIC T6)



# Pinch Control Valve for endless tubes 7077 with integrated positioner

## Technical Information Valve

Nominal size	DN 6 - 10 - 14
Tube (outer diameter)	10 - 14 - 18 mm
3 interchangeable fixing pieces	10 - 14 - 18 mm
Adjustment of stroke	complete stroke 17mm (Standard) 4, 5, 6, 7, 9, 11, 13, 15 mm (with software adjustable)
Body material	stainless steel 1.4301
Working pressure	0 - 4 bar according to the quality of the tube, the shore hardness and the thickness of the tube material
Tube types	all types of elastomer up to shore hardness 65°A
Pilot pressure	3 - 6 bar
Thread for pilot connection	G 1/8"
Fluid temperature	-30°C up to +170°C (according to the quality of the tube)
Weight	4,4 kg

## Positioner

	Digital positioner Type 8048	i/p-positioner Type 8047	p/p-positioner Type 8047
Input signal range	0/4 - 20 mA, 0/2 - 10 V	0/4 - 20 mA, 0/2 - 10 V	0,2 - 1 bar
Supply voltage, electrical	24 V DC, maximum 10 W	none	none
Supply air pressure	max. 6 bar	max. 6 bar	max. 6 bar
Hysteresis	< 0,5 %	< 1 %	< 1 %
Rangeability	15 : 1	15 : 1	15 : 1
Characteristics	linear, equal percentage, user-defined, process optimized*	Characteristics of function unit	Characteristics of function unit
Adjustment (Stroke, zero point)	self-adapting	mechanical	mechanical
Ambient temperature	-20°C up to +75°C	-20°C up to +60°C	-20°C up to +80°C
Protection class acc. DIN 40050	IP65	IP 54	IP 54
Ex-proof (Optional)	-	 II 2 G EEx ib IIC T6 up to 45°C  II 2 G EEx ib IIC T5 up to 60°C	-

\*Produces a linear process flow characteristic for optimal control. After entering a few process data points (e.g. upstream and downstream pressures) the optimised flow characteristic is calculated by the positioner configuration software and stored in the positioner memory.

## Digital Positioner Type 8049

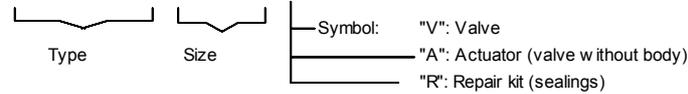
Version	4-wire	2-wire	AS-I
Set point signal	0/4 - 20 mA	4 - 20 mA	Single Slave, Slave Profil S - 7.3.4
Burden voltage	1,2 V	14 V	-
Supply energy, electrical	24 VDC	none	supply with AS-I
Adaption to range and zero	self-learning		
Configuration	with PC-Software		
Air delivery*	50 NI/min.	according the version	50 NI/min.
System air consumption	none		
Ambient temperature limits	-20 up to +75°C	-10 up to +75°C	-20 up to +75°C
Supply connection	G 1/8"		
Class of protection acc. DIN 40050	IP 65		
Accessories	Analogue feedback module RM-1 2 wire design, feedback signal 4 - 20 mA		

\* 6 bar supply air

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## Ordering Number System

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1 - 5 : Please quote all 6 sections.  
6 - 12 : Quote only if required.

1. Body type		2. Material of the lower part		3. Material of the actuator			4. Positioner				5. Actuator		6. Springs																																							
1	pinch control valve for endless tubes Type 7077	A	stainless steel 1.4301	1	brass, chrome plated	2	stainless steel 1.4408	3	plastic	-	without p/p positioner	6	p/p positioner	7	i/p positioner	8	i/p positioner with plug connection M12x1	9	i/p positioner ex-proof (II 2 G Eex ib IIC T6), plug connection M12x1	A	dig. positioner with process controller 8048 IFC	C	digital positioner, type 8049 4 wire	D	dig. positioner type 8048, IP 65 + position indicator	R	digital positioner type 8049 2 wire	T	digital positioner type 8049 AS-i version	1	piston 80 mm	-	without significance	1	spring to open (only with digital positioner)																	
7. Adjustment of the stroke		8. Fittings		9. Accessories			10. Special versions				11. Adjustment of the positioner		12. Adjustment of the supply air																																							
-	complete stroke (17 mm)	4	adjustment 4 mm	5	adjustment 5 mm	6	adjustment 6 mm	7	adjustment 7 mm	9	adjustment 9 mm	A	adjustment 11 mm	B	adjustment 13 mm	C	adjustment 15 mm	-	without	1	fittings and tubing made from PA	2	fittings and tubing made of brass nickel-plate	3	fittings and tubing made of stainless steel	1.4571	-	without	6	pilot-valve DN2 230V AC	7	pilot-valve DN2 24V DC	C	pilot-valve DN2 24V/50Hz	S	State, if further sections are quoted	-	standard	0	0 - 20 mA	3	inverse function 20 - 4 mA	7	0 - 10 V	-	standard	1	adjustment of the positioner with 5 bar supply air	G	positioner with low air consumption	H	positioner with high air consumption

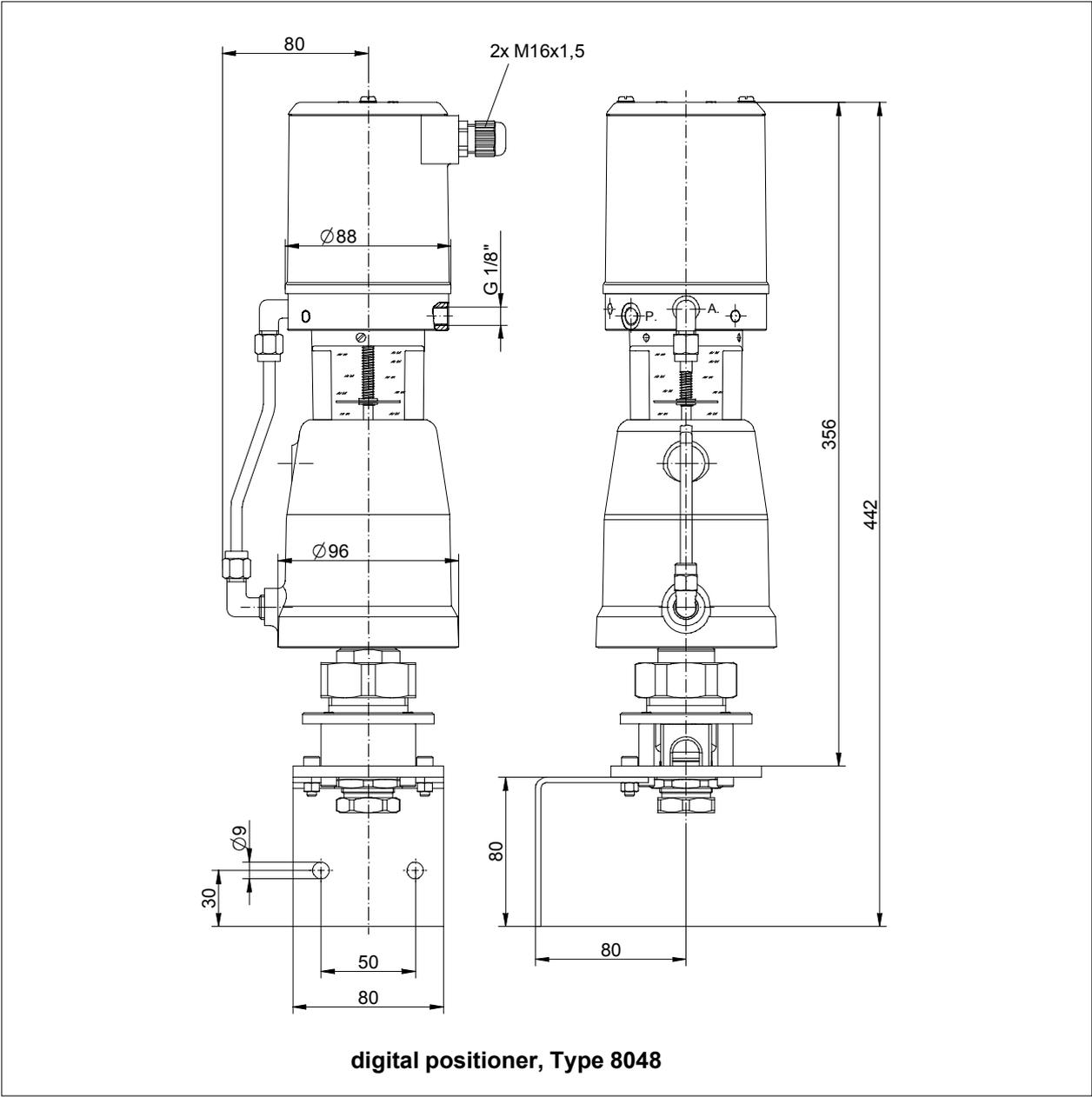
### Ordering Example: 7077/014V91A2D1--3

Pinch control valve for endless tubes, DN 14, Material of the lower part 1.4301, actuator Ø 80 mm stainless steel 1.4408, digital positioner with position indicator, adjustment of the stroke 17mm, fittings and tubing made of stainless steel 1.4571

# Pinch Control Valve for endless tubes 7077 with integrated positioner



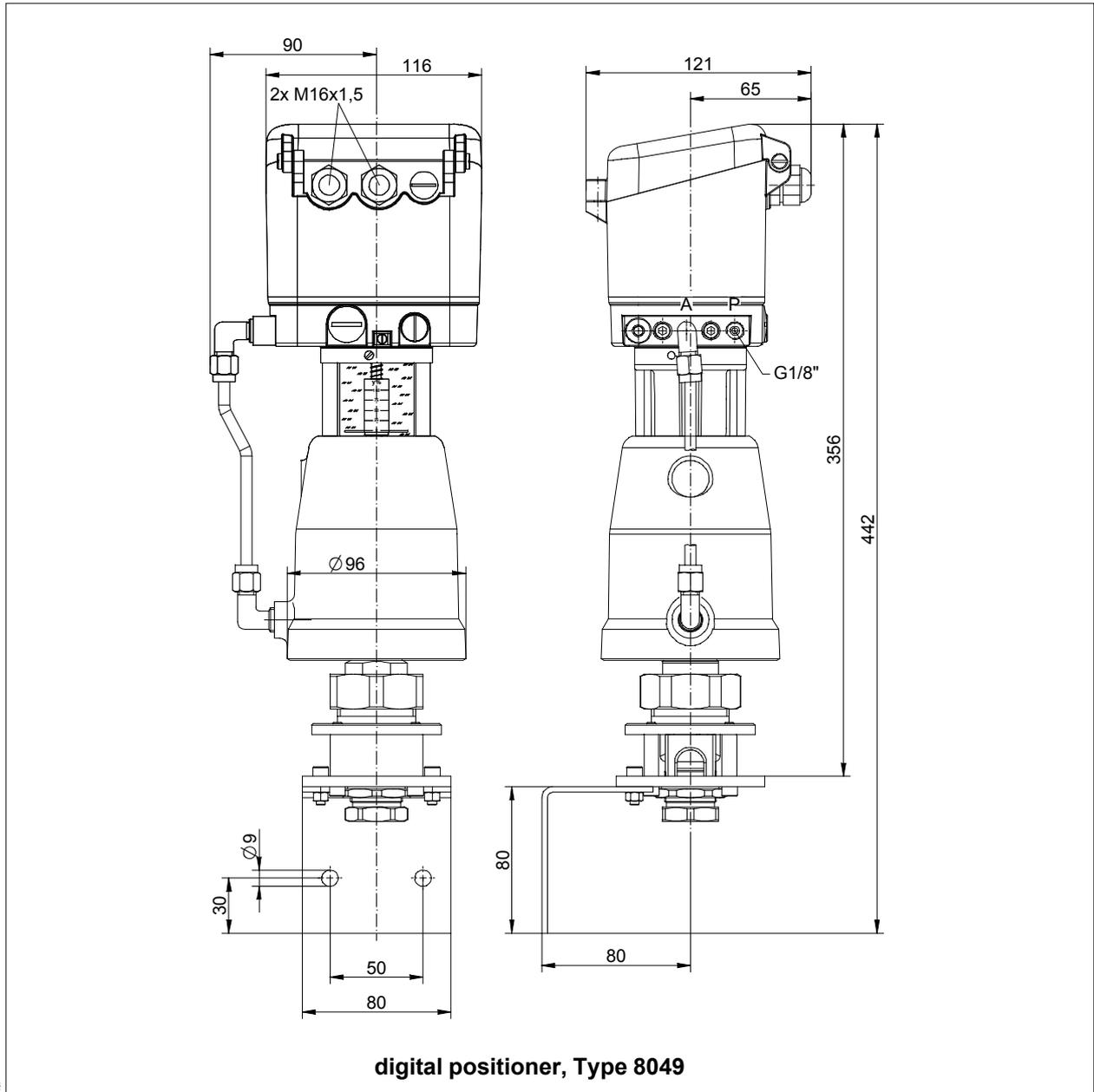
## Dimensions and Weights



Weight: 4,4 kg

# Pinch Control Valve for endless tubes 7077 with integrated positioner

## Dimensions and Weights



Text and pictures are not binding. We reserve the right, to alter the equipment.

**Weight: 4,7 kg**