Indexing Plungers

Stainless Steel, Pneumatically Operated



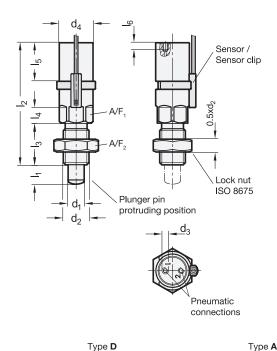
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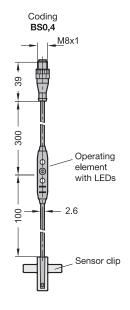
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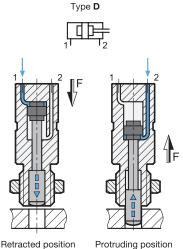


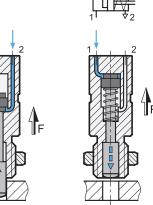
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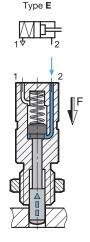
- Pneumatically double-acting, protrude / retract
- A Pneumatically single-acting, retract by spring force
- **E** Pneumatically single-acting, protrude by spring force

Coding

OP Without position query BS0,4 Position query on both sides, with plug, cable 0.4 m







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d ₁ Pin ^{-0,02} Bore H7	I ₁	d ₂	d ₃	d ₄	l ₂	l ₃	I ₄	I ₅	I ₆ min.	A/F ₁	A/F ₂
6	9	M 12 x 1,5	M 3	21	73	22	10	24	4	19	18
8	12	M 16 x 1,5	M 3	21	76	26	10	24	4	19	24
10	12	M 16 x 1,5	M 3	21	76	26	10	24	4	19	24
12	15	M 20 x 1,5	М 3	21	76	34	10	24	4	19	30

Type D Force F at 6 bar in N ≈				Type E Spring force F in N ≈		
When protruding	When retracting	Retracted	Protruding	Retracted	Protruding	
65	50	12	26	26	12	

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Specification

- Stainless steel AISI 303
 Plunger pin surface hardened
- Rod seal Polyurethane (PUR)
- Piston seal and O-ring Acrylonitrile butadiene rubber (NBR)
- Magnet Neodymium, iron, boron (NdFeB)
- Sensor
 - Housing Polyamide (PA), black
 - Cable and plug Outer sheath polyurethane (PUR), black
- Sensor clip Polyacetal (POM), black
- Hex nut ISO 8675
 Stainless steel AISI 304
- ISO Fundamental Tolerances → Page 2151
- IP Protection Classes → Page 2153
- Plastic Characteristics → Page 2158
- Stainless Steel Characteristics → Page 2166
- RoHS

Accessory

Cable with Connector GN 330

→ Page 1412

Information

Indexing plungers GN 817.7 with pneumatic operation can be easily and securely integrated into automated processes and can be positioned at locations where hand operation of the indexing plunger is not possible. Thanks to the material used, the indexing plungers are also suitable for more aggressive environments.

An integrated magnet allows the plunger pin position to be queried electronically by a sensor. The end limits (protruding and retracted position) are taught-in via the operating element on the sensor cable. They each send a high signal, which is indicated by the respective LED and can be processed by a machine control, for example.

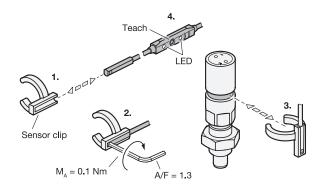
The sensor electronics can also be accessed via IO-Link and offer the ability to set and read out the switching points and to block the teach button on the operating element. To avoid interference, no external magnetic fields should act on the indexing plunger. The pneumatic indexing plungers are supplied with a lock nut. With coding BS0,4, the sensor, sensor clip and an allen wrench are also supplied loose.

see also...

- List of Indexing Plunger Types → Page 884 ff.
- Indexing Plungers GN 717
 (Stainless Steel, with Lifting Ring / with Wire Loop) → Page 912 / 913
- Indexing Plungers GN 722.4 /.5 /.6 (Stainless Steel, with Lifting Ring)
 - → Page 897 / 909 / 936
- Indexing Plungers GN 817 (Stainless Steel) → Page 898
- Indexing Plungers GN 817.6 (Stainless Steel, with Sensor for Position Monitoring) → Page 900



Assembly Instructions



The radial position of the sensor cable can be freely determined when installing the sensor clip.

Installation steps:

- Insert the sensor into the sensor clip from the side.
- 2. Tighten the hexagon socket screw of the sensor.
- Clip the sensor clip into the ring groove of the indexing plunger and then adjust the position by turning, if necessary.
- During commissioning, teach the sensor to the end positions via the operating element or IO-Link in accordance with the operating instructions supplied with the sensor.



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Pneumatic Properties	umatic Properties		
Operating pressure	4 - 6 bar		
Operating medium	Filtered, dried air, unoiled or oiled		
Temperature range	-20 °C +80 °C		

Output function	2x normally open (NO)	1 L+ 			
Output type	2x PNP				
Supply voltage	12 - 30 V DC	→ 4 Q2/C			
Continuous current I _a	≤ 100 mA	 3 M			
Connection type Plug (S)	4-pole connector M8x1, freely rotating with knurled screw connection	(1) (2) (3) (4)			
Protection type	IP 67				
Power consumption	≤ 15 mA				
Voltage drop	≤ 2.2 V				
Protection class	III				
Temperature range	-20 °C +75 °C				
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm				
EMV	According to EN 60947-5-2				
Reverse polarity protection	Yes				
Short-circuit protection	Yes				
Activation impulse suppression	Yes				
Communication interface	IO-Link (V1.0) Cycle time 2.3 ms Process data length 2 bits Process data structure: Bit $0 = \text{Switching signal } Q_1$ Bit $1 = \text{Switching signal } Q_2$ Bit $27 = \text{Empty}$				
Approvals, conformity declarations	C€	O IO-Link inside			



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