7/14MPa Hydraulic Cylinders with Position Detector Model:70/140P-8

Full Product Description

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The 70 / 140P-8 series is a tie rod hydraulic cylinder with a 7 / 14MPa specification position sensor with bore sizes of φ 40 to φ 100. By adopting a high-performance cushion, the impact at the time of stopping is reduced. High-precision position control and position detection can be obtained by combining with a computer or digital counter. The switch set has been standardized up to a bore size of φ 100. Double rod types are also supported as standard.

Markets:

- · General Industry
- · Factory Automation
- · Machine Tools
- Molding

Applications:

- · General Industry
- · Factory Automation
- · Machine Tools
- · Injection molding
- · Presses

Features/Benefits:

- · 5 standard mounting styles.
- · Sing 1 e and double rod designs available.
- · Up to 2 rod sizes per bore.
- · Standard stroke is up to 2,000mm.
- · As a safety measure, the cushion valve uses a retaining mechanism and a locknut to prevent loosening.
- · Sealing material can be selected from 4 types.
- · Magnetic proximity switch specifications are also available.
- · Resolution: 0.1 mm/pulse

Technical Specifications

Operating Temperature:

Bore Diameter: φ40,φ50,φ63,φ80,φ100 mm Rod End Type: Rod B,Rod C, Rod eye (T-end),

rod clevis (Y-end) with pin, floating joint (F-end) Floating joint(F-end:Do not use together with Mounting style CT

accessories.)

8 to 300mm/s

7MPa

Seal Material: 1:Nitrile rubber 2:Urethane

rubber 3:Fluorocarbon 6:HNBR

Maximum Operating Pressure: Cap side: 9 Rod side:

(B)13.5(C)11 MPa

Proof Pressure: 10.5MPa

Operating Pressure:

Operating Speed:

Minimum Operating Pressure: Cap side:0.3MPa or less Rod

side:(B)0.45MPa or

less(C)0.4MPa or less MPa

'-10 to +50°C(no freezing)

(ambient temperature) °C For Fluid Type:

Petroleum-based fluid(When using another fluid, give us such

instructions.)

Body Material: Carbon steel for machine

structural use

Cushioning Type: Metal fitting system

Thread Tolerance: JIS 6g/6H

Stroke Tolerance:

0 to 100mm:0 to +0.8 101 to

250mm:0 to +1.0 251 to 630mm:0 to +1.25 631 to 1000mm:0 to +1.4 1001 to 1600mm:0 to +1.6 1601 to 2000mm:0 to +1.8

Mounting Type: SD, LA, LB, FG, FH, CT **Bellows Material:** Standard: Nylon tarpaulin

Semi-standard: Chloroprene,

Conex

Input Voltage: Standard:12V DC Semi-Signal Output: Standard:12V DC voltage

standard:12V to 24V DC

output Phase A &

B(90°phase)30mA or less Semi-standard:NPN open collector output Phase A & B(90°phase)Applied voltage:24V DC or less Sink

current:30mA or less

Resolution: 0.1mm/Pulse mm Maximum Output Error: 0.5mm/m(Length measuring

error per meter of total moving

distance)

Maximum Operating Speed: 300mm/s **Operating Humidity:** 90%RH(no condensing)