

# Compact Design Hydraulic Cylinder

## Model:HQS2

### Full Product Description

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The HQS2 series is compact hydraulic cylinder that can be used up to 16MPa depending on the frequency of use. Aluminum alloy is used for the cylinder body in pursuit of cost performance. A special copper alloy is used for the bearings, which are important for hydraulic cylinders. We also have bore size from  $\phi 20$  to  $\phi 100$ . The switch set mounting switch can be set to any position by sliding.

#### Markets:

- Industrial
- Processing

#### Applications:

- Factory Automation
- Machine Tools
- Molding
- Food & Beverage
- Plastic Processing

#### Features/Benefits:

- Configurable in 1mm stroke increments.
- The rod end can be selected from two female and male screw specifications.
- Individual testing of each cylinder for reliability.

#### Industry Standard:

- ISO 16656

## Technical Specifications

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<b>Bore Diameter:</b>	φ20,φ25,φ32,φ40,φ50,φ63,φ80,φ100	<b>Seal Material:</b>	6:HNBR 3:Fluorocarbon The seal of cylinders with bores of 20 and 25mm is only HNBR.
<b>Operating Pressure:</b>	φ20 to φ50:16MPa(Fatigue durability(number of times)6X10 <sup>5</sup> ) 12MPa(Fatigue durability(number of times)1X10 <sup>7</sup> ) φ63 to φ100:16MPa(Fatigue durability(number of times)3X10 <sup>5</sup> ) 10MPa(Fatigue durability(number of times)1X10 <sup>7</sup> )	<b>Proof Pressure:</b>	20MPa
<b>Minimum Operating Pressure:</b>	0.3 MPa	<b>Operating Speed:</b>	8 to 100mm/s RPM
<b>Operating Temperature:</b>	-10 to +70°C(No freezing) (ambient/fluid temperature) °C	<b>Cushioning Type:</b>	None
<b>For Fluid Type:</b>	Petroleum-based fluid(When using another fluid,give us such instructions.)	<b>Thread Tolerance:</b>	JIS 6H/6g
<b>Stroke Tolerance:</b>	0 to +0.8mm	<b>Body Material:</b>	Aluminum alloy
<b>Mounting Type:</b>	SD,LD,FA,FB	<b>Rod End Thread Type:</b>	Female thread and male thread