

Double Acting Hydraulic Cylinders

The C01 & C02 series hydraulic cylinders are low cost general purpose products designed for use subsea use on ROV's, manipulators, hydraulic tooling and other submersible hydraulic systems.

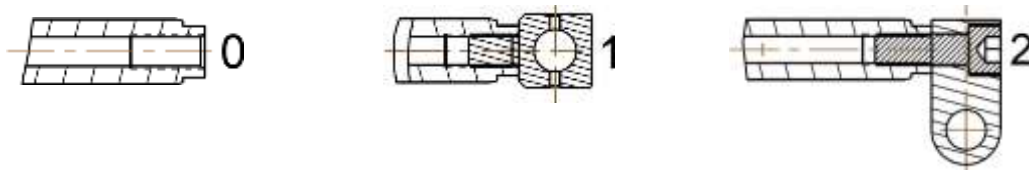
The cylinders are manufactured from corrosion resistant materials and are available in a stroke lengths of either 65mm or 100mm. Two types of rod ends are available or can be supplied without to allow the customer to connect to the M10 thread in the rod end.



Features

- Manufactured from corrosion resistant materials
- Stroke lengths of 65mm or 100mm as standard
- Two standard rod end types are available
- Hydraulic ports are 1/8" BSPP (ISO 1179) and located at the rear of the cylinder

Rod End Types



Technical Specifications

General

Cylinder Type	Double Acting
Materials	316 SS, Bronze
Seal Material	Nitrile/NBR/Buna-N
Product Finish	Electro Polished
Ports	1/8" BSPP (ISO 1179)
Piston Diameter	C01 = 30mm C02 = 35mm
Rod Diameter	C01 = 19.05mm C02 = 19.05mm
Area Ratio	C01 = 1.67 C02 = 1.42
Dimensions	Stroke Lengths = 65mm (2.56") or 100mm (3.93") Contact Office for details
Weight in Air	C01 = 1.25kg (2.75lb) Nominal C02 = 1.62kg (3.57lb) Nominal
Weight in Water	C01 = 1.04kg (2.29lb) Nominal C02 = 1.34kg (2.95lb) Nominal

Hydraulic Performance

Maximum Working Pressure	207bar (3000psi)
Flow	0.5lpm to 6lpm (0.13gpm to 1.58gpm)
Fluid Type	Mineral: DIN 51524, ISO 11158, ISO 6743-4, ASTM D6158 Synthetic: Panolin Atlantis, HLP-Synth
Viscosity	16cSt to 220cSt. VG 22-32 Recommended
Temperature	5-60°C (41-140°F)
Cleanliness Requirements	ISO 4406:19/17/14, NAS 1638:8, AS4059:9A/8B/8C

Forces

Extend Force	C01 = 14.0kN @ 207bar (3,147lbf @ 3000psi) C02 = 19.2kN @ 207bar (4,316lbf @ 3000psi)
Retract Force	C01 = 8.5kN @ 207bar (1,910lbf @ 3000psi) C02 = 11.6kN @ 207bar (2,607lbf @ 3000psi)

Environmental

Operational Depth	Full Ocean Depth
Operating Temperature	5-60°C (41-140°F)
Storage Temperature	0-120°C (32-248°F)
Humidity	0% to 100% Condensing

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SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE AND ARE SUBJECT TO SYSTEM CONFIGURATION