

F2 hydraulic cylinder

Technical specifications

Application:

For all application (e.g. offshore, marine and industry hydraulics), cylinder diameter from ø25 to ø300 mm both included.

Material certificates:

High quality materials, but without traceability

Third party certificate:

Use our FI cylinders if there is a requirement for third party approval, and material traceability

Working pressure: Max 250 bar. Test pressure: Max 375 bar.

Cleanness:

Cleaned and flushed. Specific cleanness classes are available on request.

Speed:

Max piston speed 0,5 m/sec. If the piston speed in top or bottom exceeds 0,1 m/sec, build-in damping in the cylinder is recommended.

Cylinder tube:

Honed or skived and roller burnished tube, material quality E355+SR or S355J2. Special material qualities can be delivered on request.

Piston rod:

Quality 20MnV6 corresponding to SS2142, Hard chrome 25 μ m +/- 5 μ m, Hardness min. 850 HV, Ra max. 0.2 μ m, external tolerance ISO f7

Alternative materials

SS2387 corresponding to EN 1.4418 AISI 630 corresponding to EN 1.4542

SS2324 corresponding to EN 1.4460

SS2377 corresponding to EN 1.4462

All qualities are delivered with hard chrome 25µm +/- 5µm, Hardness min. 850 HV., Ra max. 0.2 µm, external tolerance ISO f7.

Special material qualities and surface protection (e.g. ceramic surface, double chrome layer) can be delivered on request.

Spherical bearing:

Many different qualities, e.g. in Carbon steel, stainless steel, bronze and composite. Special material and dimensions can be delivered on request.

Gaskets:

Piston seal: Polyurethane wiper ring with nitrile O-ring

Rod seal: Lip seal of polyurethane.

Wiper: Polyurethane with steel housing

Guide rings: Composite material

O-rings: Nitrile

Alternative materials

Piston seal, rod seal and wiper:

In PTFE with O-rings of nitrile. Recommended for intensive use plus applications, where low friction in the cylinder is desirable.

In PTFE with O-rings of viton. Recommended for applications, where the seals can be exposed to temperatures above 80-100°C.

Special seals can be delivered on request.

Integrated valve:

Can be delivered with built-in hose valves or load holding valves.

Damping:

Can be delivered with damping

Positioning:

Can be delivered with different types of electronic positioning, e.g. from REGAL, MTS-Temposonics or BALLUFF.

Temperature

Working temperature ÷ 20°C to +80°C. Cylinders for working temperatures outside this area can be delivered on request.

Pressure medium:

Mineral hydraulic oil. Other media, ask FJERO.

Surface treatment:

Different surface treatment is possible. Standard Black primer, but also shot blasted / sand blasted and painted to corrosion class C2 - C3 or C5.

Surface treatment according to international standards as e.g. ISO 12944-2 or NORSOK M-501 can also be delivered.

Special requests:

Please contact FJERO A/S