

# Technical Manual

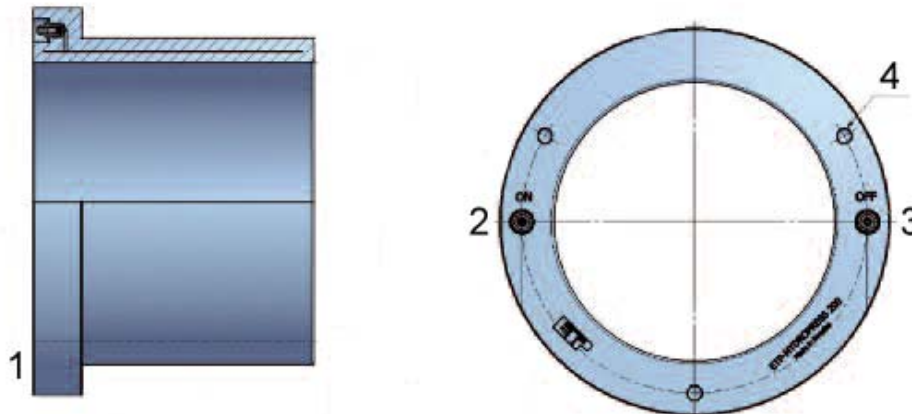
## ETP-HYDROPRESS



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## Technical parts description



1.	<b>Double-walled hardened steel sleeve</b> With the same characteristics as for ETP-CLASSIC. The outer sleeve moves outwards to the bore of the hub and the inner inwards to the shaft.
2.	<b>Pressure setting valve, On</b> High precision grease nipple made by us. It opens when pressure from the grease pump is injected and seals of the nipple when no pressure. Fits to our grease pump M-09. The nipples can as option be in the radial direction.
3.	<b>Release valve, Off</b> A screw pressing on a steel ball. When the system is under pressure, the screw should be tightened firmly to allow a steel ball to seal against a spherical seating. To dismantle, the screw is opened and a small amount of grease comes out.
4.	<b>Mounting/dismantling threads, 3 pcs M12</b> Can be used for pulling/pushing ETP-HYDROPRESS along the shaft.
5.	<b>Pressure medium</b> All types of hydraulic oil can be used.

## Mounting/dismantling tips

### Locking & unlocking:

All the contact surfaces should be cleaned with a solvent for max. torque capacity.

A thin oil on the surfaces will reduce the torque capacity slightly, but is necessary for frequent movement to avoid wear.

The total time for clamping is low because no grease is used, only put under pressure.

Number of mountings > 1 000 times.

The grease and release nipples with steel rubber washers can be supplied as accessories.

We have available a special designed grease pump, M-09, for pressure up to 700 bar. The design pressure can be varied up to 700 bar.



Recommended grease quality is NLGI 2 or lower quality with Lithium soap or a soap of inorganic type or even better without soap content, we recommend Blasolube 301, also available from us.

Also the following can be used:

Blaser	Blasolube	301
SKF	Alfalub	LGMT2
“	”	LGEP2
”	”	LGEM2
”	”	LGLT2

EXXON	Unirex	N2
MOBIL	Mobilux	1,2
"	Mobilgrease	532
"	Mobilux	EP2
"	Mobiltemp	SHC 100
"	Mobilgrease	Special
"	Mobilgrease	77
SHELL	Retinax	A
"	"	AM
TEXACO	Marfalk all purpose	EP2
"	Molytex	F020
GULF	Gulflex	MP
"	Polyurea EP Grease 2	
"	Gulfex Moly	
FINA	Marson	EPL2
"	Marson super Moly/LM32	
"	Marson L, super	

## Design examples/tips

ETP-HYDROPRESS often is used for customized designs, a standard design is available for shaft sizes 160 to 300 mm but not from stock. Dimensions like length and diameters can be varied a lot.

For frequent or long sliding distances ETP-HYDROPRESS can be plated with Aluminium Bronze on the inner diameter. This make the surface less sensitive for wear. Usually made with spiral tracks to prevent from impurities on the contact surfaces.

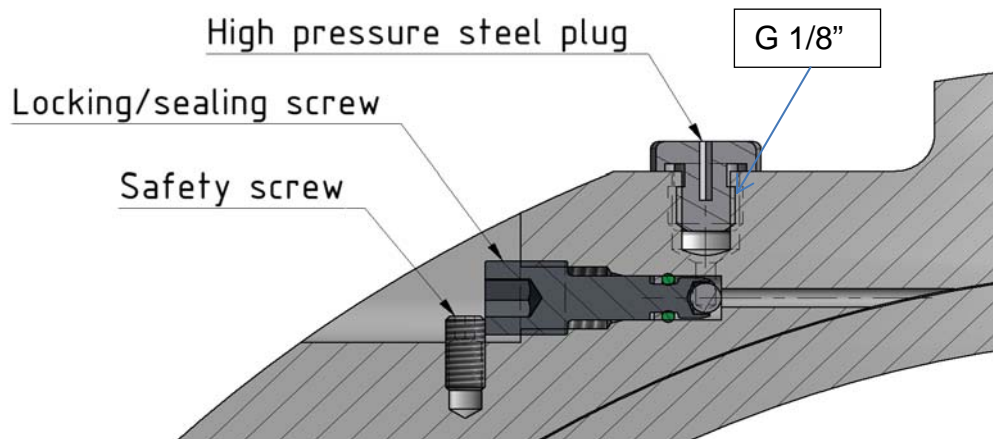


As an option ETP-HYDROPRESS can be plated with ETP-HFC for increased torque capacity. Smallest bore to plate is 100 mm.

As an option the connections can also be made in the radial direction.

The transmittable torque or axial force can be varied through the applied pressure. Please consult us for the calculation under your specific circumstances.

ETP-HYDROPRESS can be made with spiral tracks on the inner diameter towards the shaft surface. This to improve the lubrication during sliding and to reduce affect of impurities on the surfaces.



As an alternative ETP-HYDROPRESS can also be designed for use with oil as pressure medium. Then a sealing screw is used to lock the oil in, when the max pressure of 700 bar is reached. The locking screw is tightened firmly and the steel ball seals against a spherical surface, the pump is disconnected. When dismantling the pump is connected to the G 1/8" thread, the locking screw released and the oil goes back into the oil pump. The oil pump can be supplied by us.