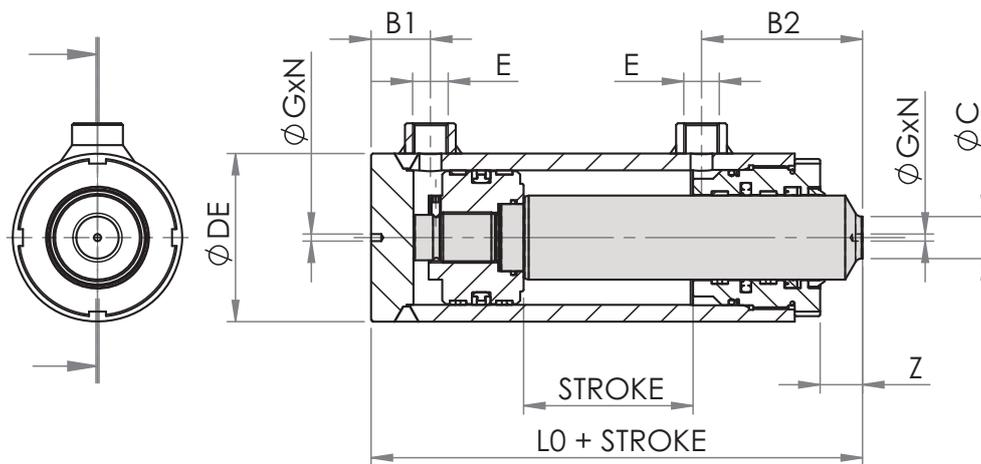




SELF ASSEMBLY LINE

MODEL SHP320



| Diameter | Rod | DE | E | B1 | B2 | Z | C | GxN | L0 |
|----------|-----|-----|------|----|----|----|----|-------|-----|
| 50 | 30 | 65 | G3/8 | 30 | 52 | 20 | 15 | 4,2X6 | 140 |
| 60 | 35 | 75 | G3/8 | 30 | 55 | 25 | 17 | 4,2X6 | 160 |
| 60 | 40 | 75 | G3/8 | 30 | 55 | 25 | 20 | 4,2X6 | 160 |
| 70 | 40 | 85 | G3/8 | 30 | 60 | 25 | 20 | 4,2X6 | 180 |
| 80 | 50 | 100 | G1/2 | 35 | 70 | 25 | 25 | 4,2X6 | 190 |
| 90 | 50 | 110 | G1/2 | 35 | 70 | 25 | 25 | 4,2X6 | 190 |
| 100 | 50 | 120 | G1/2 | 40 | 70 | 30 | 25 | 4,2X6 | 200 |
| 100 | 60 | 120 | G1/2 | 40 | 70 | 30 | 30 | 4,2X6 | 200 |
| 120 | 60 | 140 | G1/2 | 45 | 75 | 30 | 30 | 4,2X6 | 225 |
| 120 | 70 | 140 | G1/2 | 45 | 75 | 30 | 35 | 4,2X6 | 225 |
| 140 | 80 | 170 | G3/4 | 55 | 85 | 35 | 40 | 4,2X6 | 260 |
| 140 | 100 | 170 | G3/4 | 55 | 85 | 40 | 50 | 4,2X6 | 265 |
| 160 | 100 | 190 | G3/4 | 60 | 95 | 40 | 50 | 4,2X6 | 290 |
| 160 | 120 | 190 | G3/4 | 60 | 95 | 45 | 60 | 4,2X6 | 295 |

** for cylinders subject to thrust loads with

stroke values of 2500mm

we recommend use of spacers to limit load on pilot parts.

Spacer length is 50mm, number should be chosen

based on the following criteria:

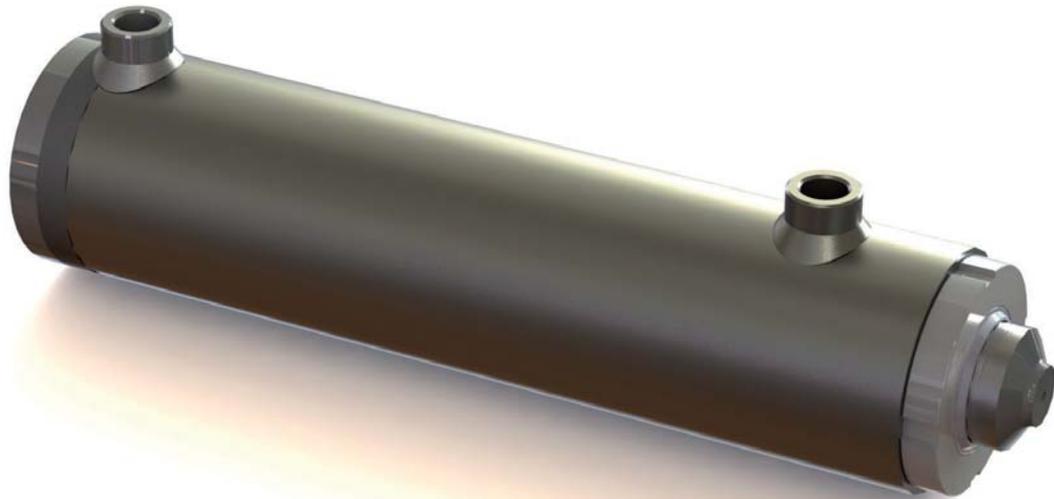
- stroke from 2500 to 3000, 1 spacer.

- stroke from 3000 to 3500, 2 spacers.

- stroke from 3500 to 4000, 3 spacers.

In this case the length of the entire closed cylinder is

$L0 + STROKE + (No. of SPACERS * 50)$.



SELF ASSEMBLY LINE MODEL SHP320

Product Specifications

Nominal working pressure: 250 bar (25 MPa)
Maximum working pressure: 320 bar (32 MPa)
Liner: E355 SR EN 10305 -1 steel liner, polished inside
Ra<0.4 tolerance H8
End plug: S355JR - ASTM A105 steel
Rod: Alloy steel 42CrMo4 +QT chromed Ra<0.2
tolerance f7 corrosion resistance 200h NSS ISO 9227
(Neutral salt spray fog test) rating > 9 ISO 10289.
Rods with corrosion resistance on request 500h, 1000h
Pilot boss: Steel C45.
Piston: Steel C45
Sealing system: Double rod seal, main one in PTFE + Bronze
and secondary one in polyurethane. Piston seal in PTFE +
Bronze with energizing ring in NBR90 and anti-extrusion rings
in PTFE. Rod and piston seals in phenolic resin.
O-rings in NBR70, Anti-extrusion rings in polyester.
Hydraulic testing:
Each cylinder undergoes hydraulic testing at 350 bars
(35 MPa) of pressure.
Terms and conditions:
Cylinders are supplied unassembled with feed ports closed
with threaded, sealed plugs.
Special coatings can be applied on customer request.
Suggested fluid: hydraulic mineral oil,
minimum filtration fineness 19/15 a, ISO 4406.

Operating temperature: from -20°C to 80°C.

It is recommended to maintain fluid temperatures
of 40÷50°C while in operation in order to maximize seal life.

Radial load:

prohibited; during use never subject the rod to radial loads.

Welding:

any welding of accessories on the cylinder plug or the rod
ends must be done after having completely removed the rod.
Before reinserting it, make sure the welds are cooled off.
Preheat the rod 200°C and use multipass welding to avoid
overheating material; protect chromed surfaces adequately
from welding spit. Welding on the cylinder's external diameter
should be absolutely avoided.

Coating:

when applying a coating to the cylinder with oven drying the
temperature should never exceed 80°C. If coating is applied
with the rod removed, ensure that the rod is well-protected;
before reinsertion remove any coating residue on the rod in
order to avoid damaging the wiper and rod seal.

Warning:

please refer to the product instructions. The manufacturer,
aiming to constantly improve the product, reserves the right to
modify the product at any time without prior notice.

Warranty:

Warranty terms and conditions can be found at the
following website: www.oleodinamicafo.com/condizioni_IT.pdf