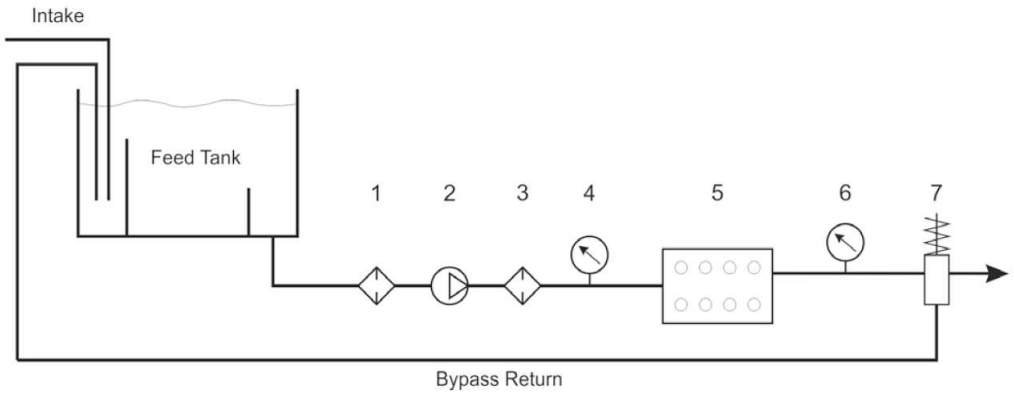


1 = Coarse filter
2 = Booster pump
3 = Fine-particle filter
4 = Gauge to check input pressure
5 = High pressure pump
6 = High pressure gauge
7 = Excess, Safety valves

Maintenance and Servicing
For the type of thread lock used and the required tightening torques, observe the table in the exploded view.

Special tools required
The following special tools are required for assembly:
- Pull-out tool ø24 mm
- Seal extractor tool ø22.4 mm

Suction and Discharge Valves
Remove hexagon screw (58) and remove valve casing (54). Pull seal case (38) out of valve casing (54). Pull valve body (52) and seal case (38) apart.
Using pliers, pull spring guide (55) out of the valve casing. Remove discharge valve plate (57) together with spring (56) from spring guide (55). Check sealing surfaces of the valve body (52) and discharge valve plate (57). Check discharge valve spring (56) and border seal ring (53) and replace where necessary.

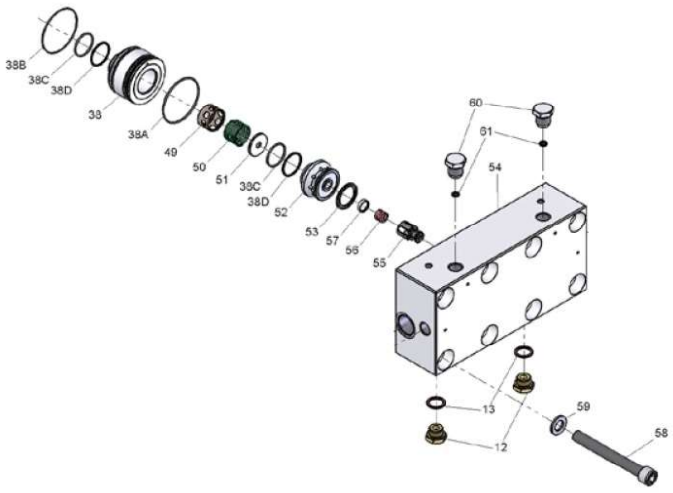
A damaged border seal ring (53) must be replaced before reassembling.

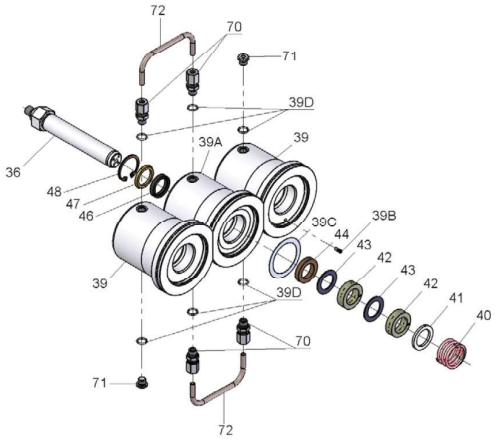
Suction Valves
Remove suction valve spring (50) with valve plate (51) from seal case (38). Check sealing surfaces of the valve plate (51) and valve body (52).
Check O-rings (38/A/B/C) and support ring (38D) before reassembling. Worn parts must be replaced.

To Check Seals and Plungers
Unscrew hexagon screws (58), and take off valve casing (54). Remove the screw-in joints (70) and take off the elbow pipes (72). Pull seal sleeve (39/39A) out of the crankcase.

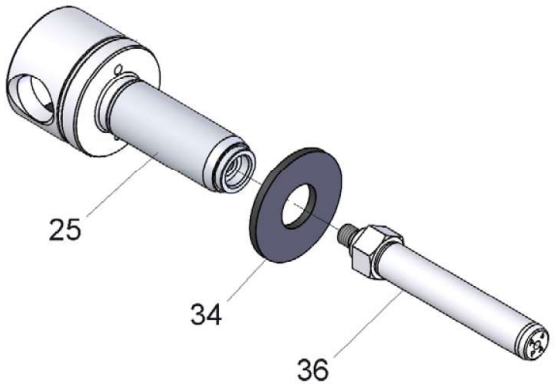
Take the seal tension spring (40) out of seal sleeve (39/39A).
Using a pliers, remove the clip ring (48) situated on the other side of the sleeve; then take out support ring (47) and grooved ring (46) using an extractor tool (ø24).
Using a seal extractor tool (ø22.4), carefully press the seal unit comprising guide ring (44), spiral ring (42) and support ring (41/43) out of the seal sleeve (39/39A) from the side (39/39A) closest to the drive.

Check spiral ring (42),Support ring (43), guide ring (44) and grooved ring (46) and replace where necessary.





Check surface of plunger (36) for damage.
A worn plunger (36) must be removed (27 mm wrench) and replaced. Due to reasons of precision, the ceramic plunger alone cannot be exchanged.
Coat the threads of the plunger lightly with an appropriate bonding agent and tighten plunger to the required torque.

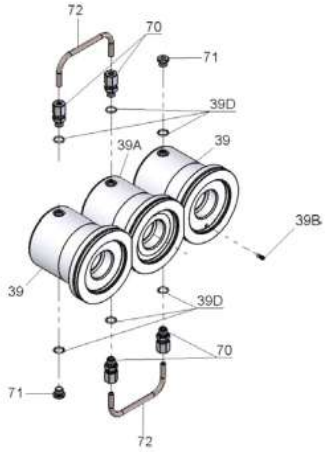


Check the leakage bores ø4mm of the seal sleeves (39/39A) and seal cases (38) for dirt and clean if necessary.

The elbow screw-in joints (70/71) and elbow pipes (72) must also be checked for dirt and cleaned if necessary.

For the right sealing sleeve, the leakage hole ø4 mm must be closed by a nozzle (39B) to improve water circulation from sealing sleeve 1 to sealing sleeve 3.

Fit the drip-return unit (46/47/48), the high-pressure seal unit (41/42/43/44) and tension spring (40) into the seal sleeve.



Then push the assembled seal sleeves (39/39A) carefully on to the plungers and into the drive; thereafter, mount elbow pipes (72) as per the exploded view and tighten the screw-in joints (70/71) carefully.
Push the valve casing (54) with the seal sleeves (38) onto the sealing sleeves (39/39A).
Tighten the screws (58) for fastening the valve housing evenly to the specified torque.
If required, supplementary assembly instructions can be requested from the manufacturer Giant.

Materials Used
Valve Casing: AISI CA-6-NM
Plunger: AISI 329 hard metal coated
Valves: Duplex-Steel / 1.4460 / 1.4462
Seals: Aramid Packing with Teflon
O-Rings: Nitrile

Paint
The pump drive is painted in RAL 3001 as standard.

GP7622GB TORQUE SPECIFICATIONS			
Position	**Thread**	**Lubrication Info**	**Torque Amount**
1		Molycote Cu-Paste	
5		Loctite 5910	
10	M10		33 ft.-lbs. (45 Nm)
12	1/2” BSP		30 ft.-lbs. (40 Nm)
15		Loctite 403	
17	M12		33 ft.-lbs. (45 Nm)
24	M10		22 ft.-lbs. (30 Nm)
32		Loctite 403	
36	27mm		33 ft.-lbs. (45 Nm)
38		Copper Paste/ Crankcase outside	
58	M16		173 ft.-lbs. (235 Nm)
60		Anti Seize 350	
63		Anti Seize 350	
64		Anti Seize 350	
69		Anti Seize 350	