



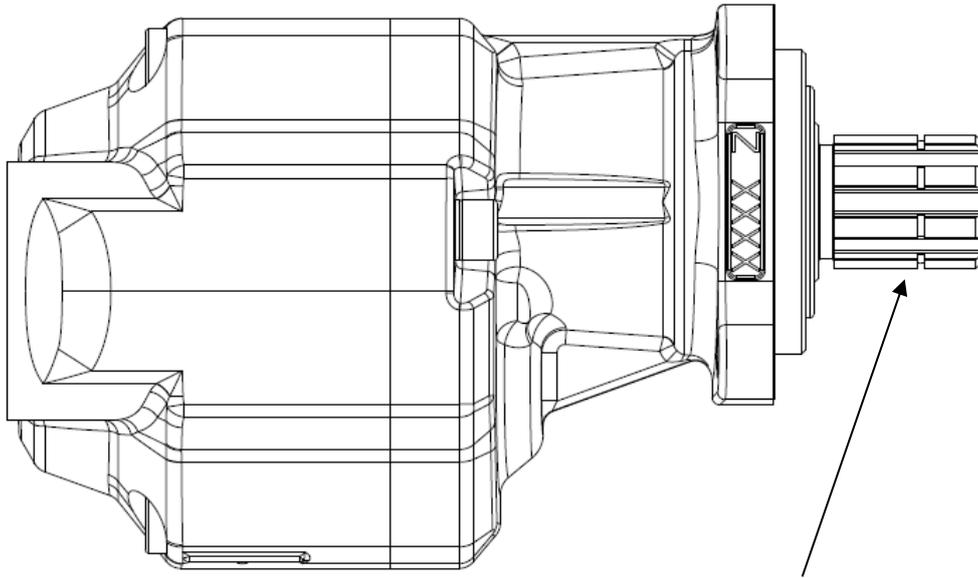
MOUNTING INSTRUCTIONS

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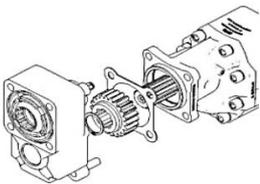
1 MOUNTING OPTIONS

ISO – 16Z0



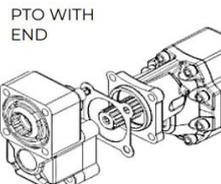
W 8x32x35 DIN-ISO

YES



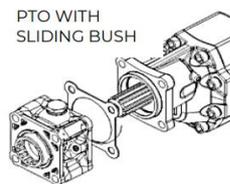
PTO loose gearwheel

YES



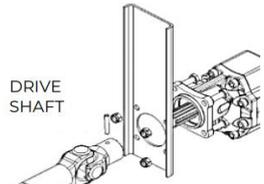
PTO reinforced

YES



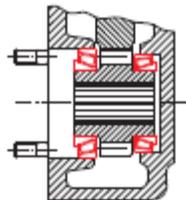
PTO reinforced output

YES



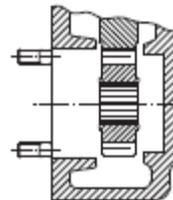
Cardan shaft

YES



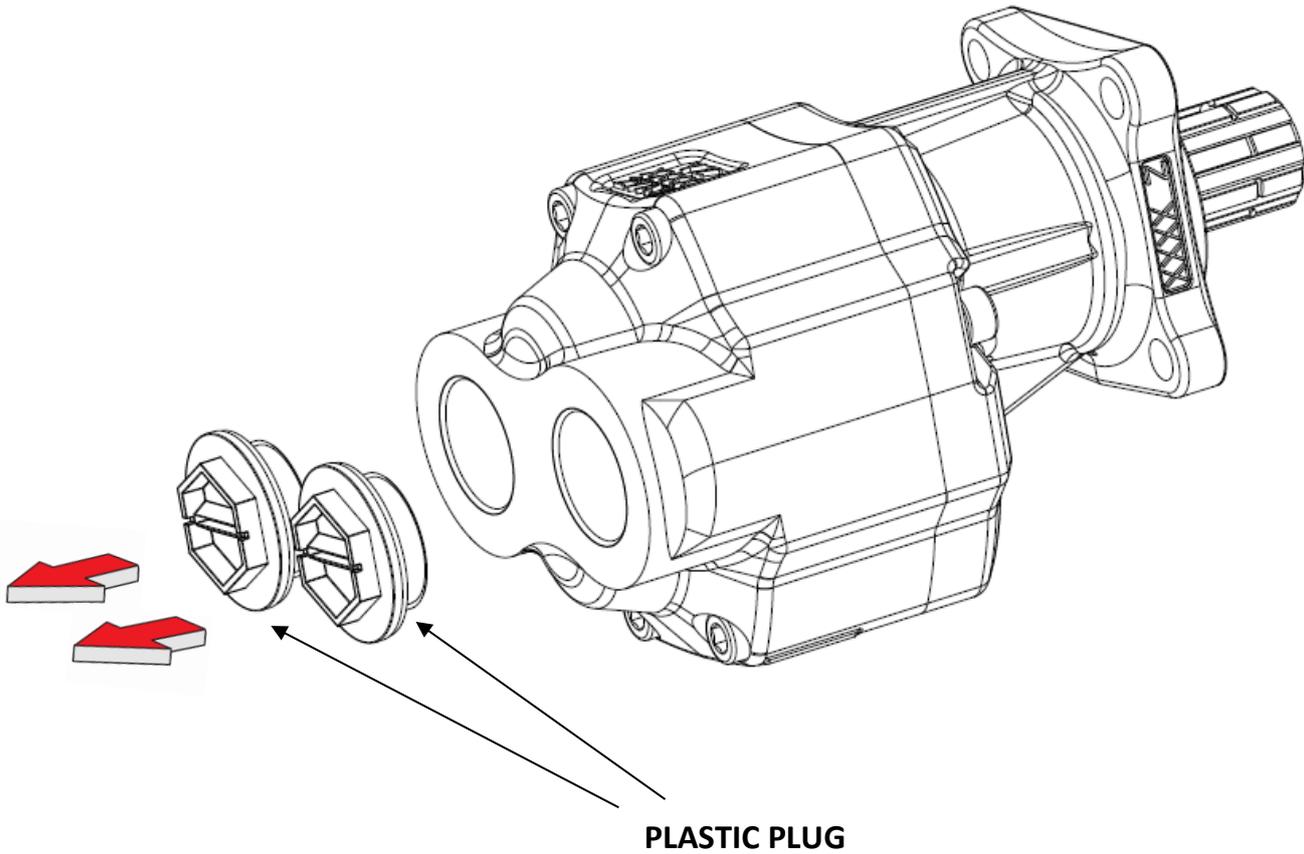
PTO with reinforced output (supported by 2 bearings)

YES



PTO with loose gearwheel

2 INSTALLATION AND START-UP

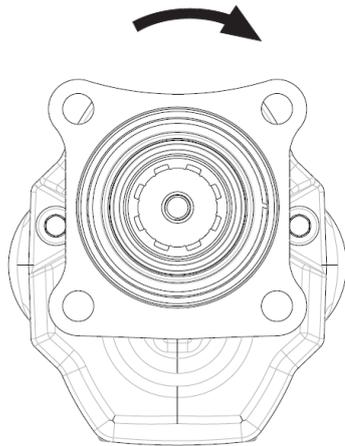


Remove the 2 plastic plugs before installing.

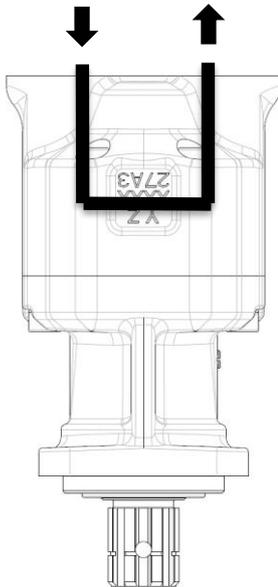
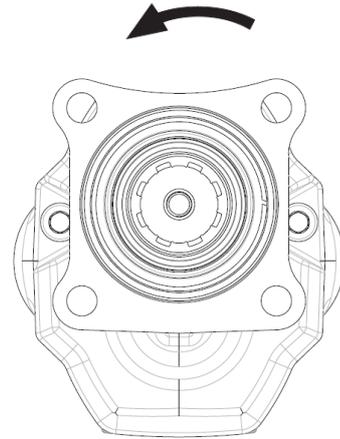
2.1 DIRECTION OF ROTATION AND PORTS POSITION

The direction of rotation is determined looking on the drive shaft of the pump. Bi-rotational pumps allow clockwise and anti-clockwise rotation. The drawing below shows the inlet and outlet tubing position according to the direction of rotation.

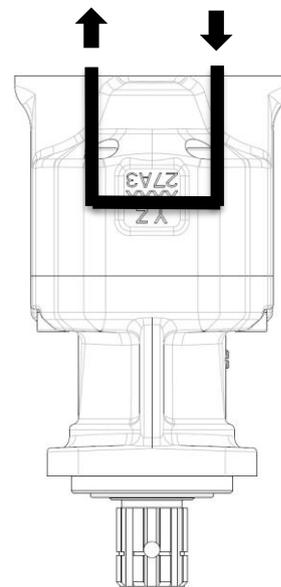
Clockwise rotation
(Right pump)



Anti-clock rotation
(Left pump)

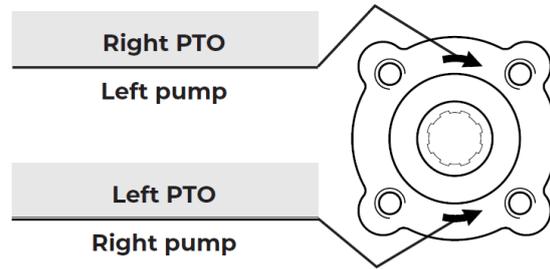


2R



2R

The pump inlet and outlet tubing position depends on the PTO direction of rotation. Looking on the PTO output frame, the pump will have the opposite direction of rotation of the PTO.



2.2 OIL VISCOSITY

The recommended oil viscosity is between 12 and 100 cSt for pump speeds up to 2500 RPM. For short term (cold start) a maximum oil viscosity of 750 cSt is allowed at max. pump speed of 1000 rpm. For oil selection see specification sheet OIL-0011.

2.3 INLET TUBING

To ensure proper operation, it is recommended to use the following tubing for the inlet. The stated values are valid for a 1 m (3.3 ft) long hose and only apply if the pump is mounted below minimum oil level in the tank. In any case the minimum inlet pressure must never exceed -0,3 bar (-4 psi) relative.

- Flows up to 95 l/min (25.1 US gpm): 1 1/4" hose size
- Flows up to 185 l/min (48.9 US gpm): 1 3/4" hose size
- Flows up to 240 l/min (63.4 US gpm): 2" hose size

For different hose length, higher pump positioning compared to the tank, or for applications in cold climates [below -20°C (-4 °F)], please contact Hyva.

2.4 OUTLET TUBING

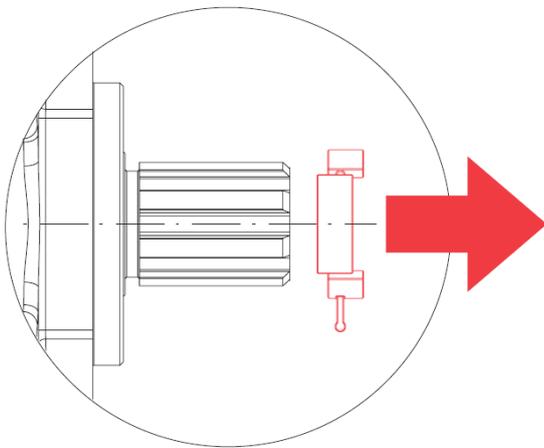
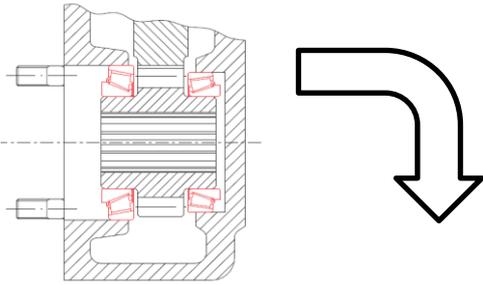
To ensure proper operation, it is recommended to use the following tubing for the outlet:

- Flows up to 45 l/min (11.9 US gpm): 1/2" hose size
- Flows up to 100 l/min (26.4 US gpm): 3/4" hose size
- Flows up to 180 l/min (47.6 US gpm): 1" hose size
- Flows up to 240 l/min (63.4 US gpm): 1 1/4" hose size

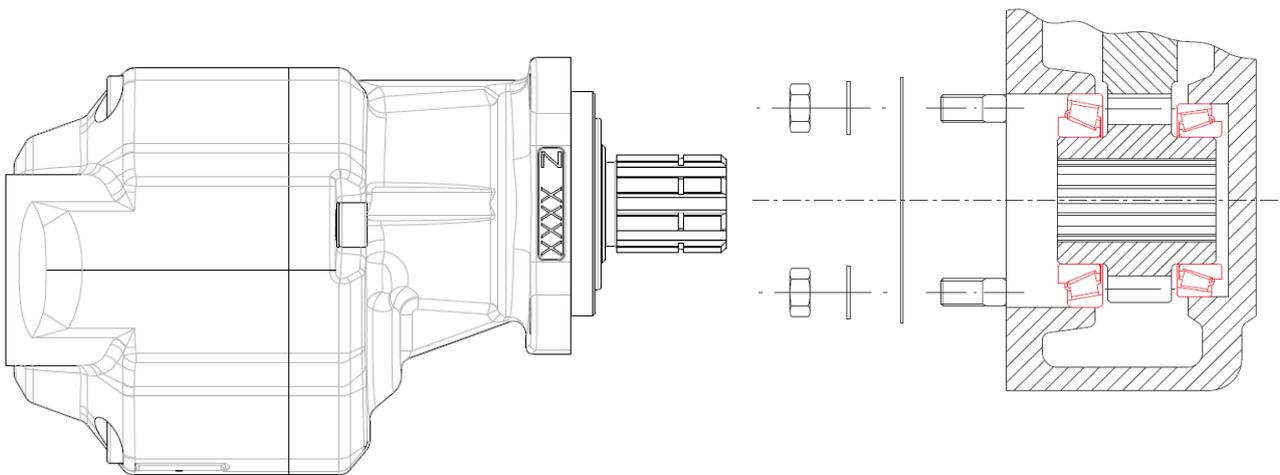
2.5 FILTRATION

Minimum filtration quality must be based on 16 µm absolute. For intensive working conditions, certainly at pressure over 200 bar (2900 psi), Hyva recommends to use a filtration of 10 µm absolute.

3 PTO MOUNT



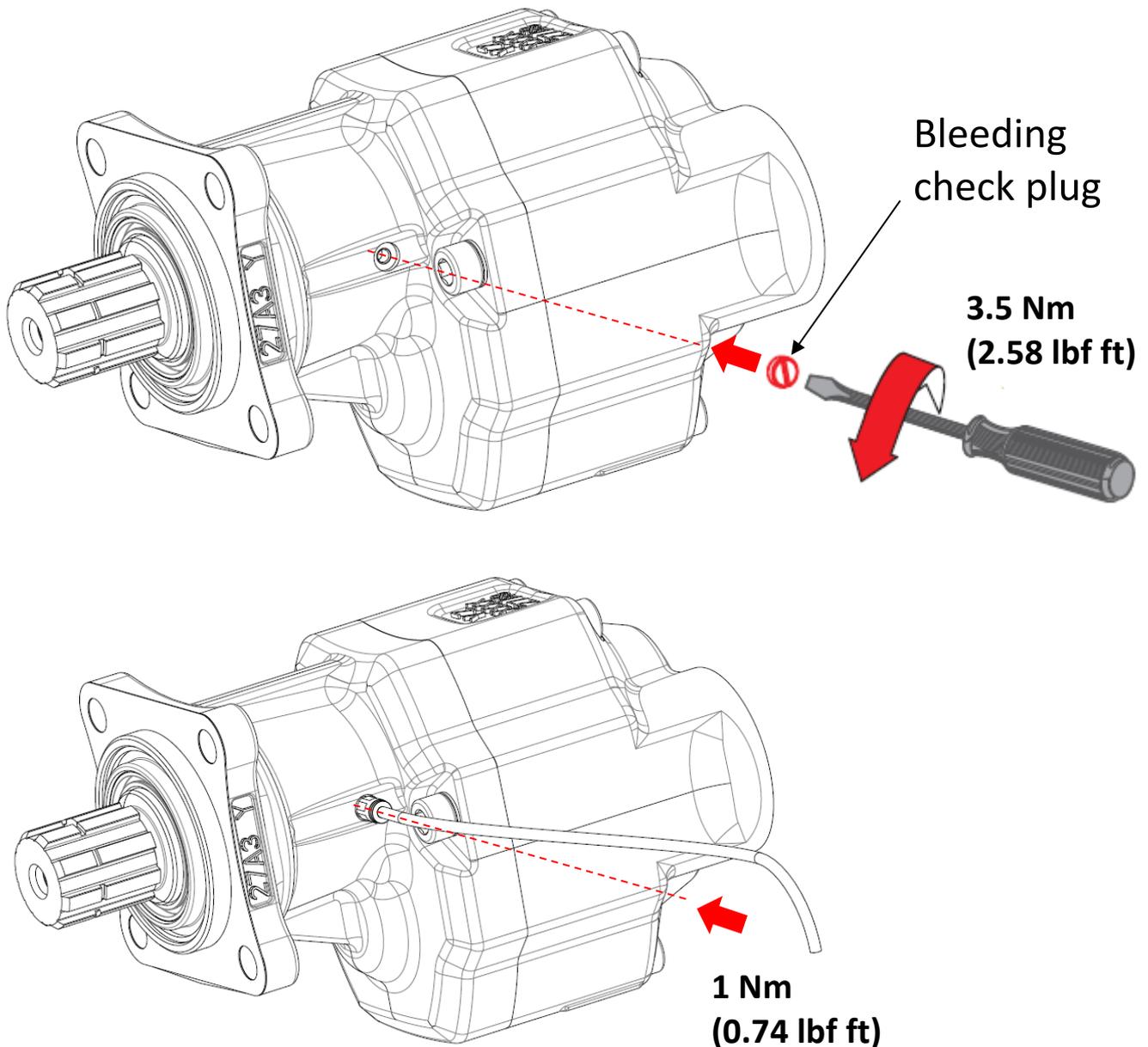
 Remove the plastic ring before fitting the pump.



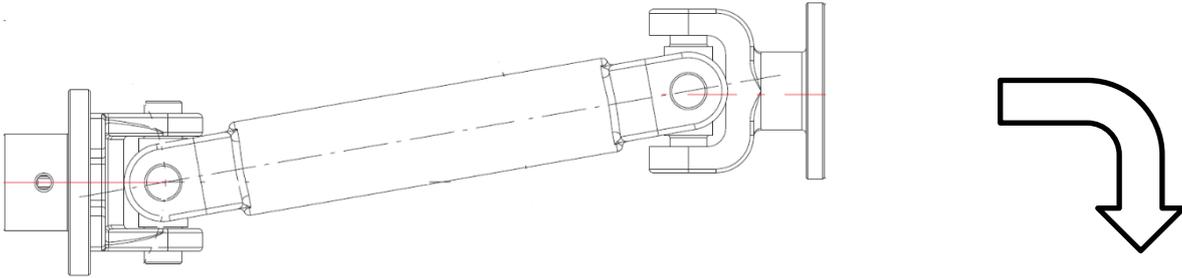
4x M12 Q10.9 (7/16" Grade 8)
80 Nm (59 lbf ft)

MOUNTING INSTRUCTIONS CVP ALPHA GEAR PUMP BI-2R

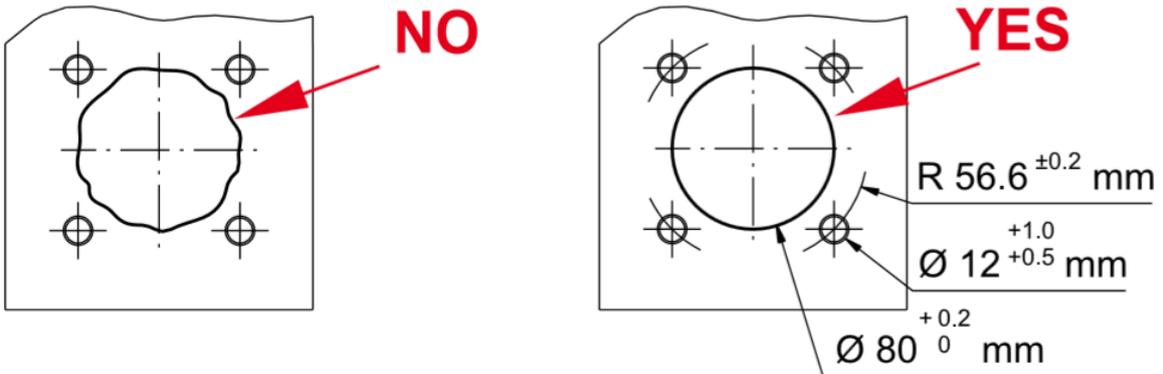
To prevent leakage problem some gear box manufacturers (example ZF) require that the pump does have a bleeding system that allows the oil between the shaft seals of the pump to escape. The bleeding system consists of air hose and air adaptor. To mount it remove bleeding check plug and mount air adaptor with air hose. Assure open hose end is facing down to prevent water entry.



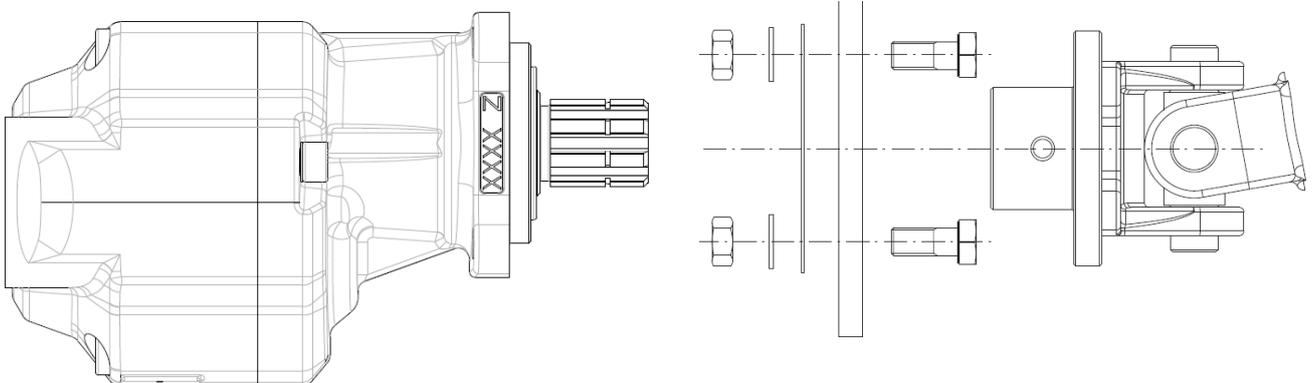
4 SINGLE PIECE CARDAN SHAFT MOUNT



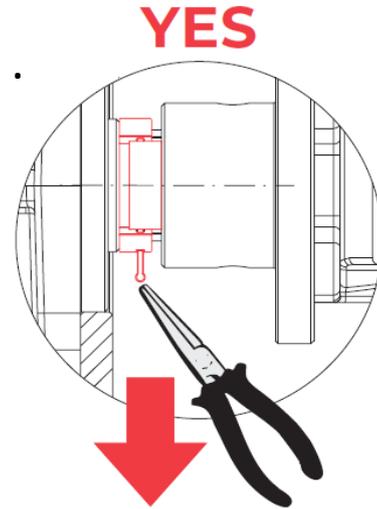
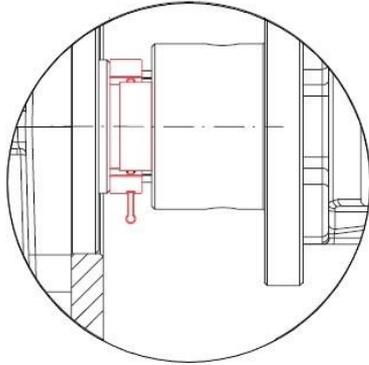
Cardan shaft should be balanced before it is fitted



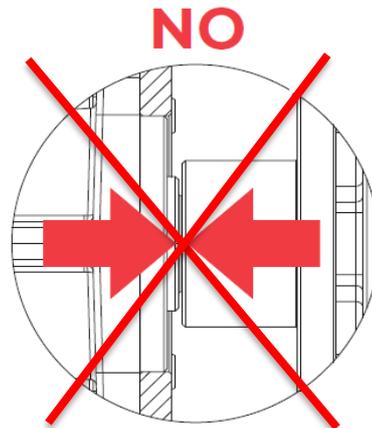
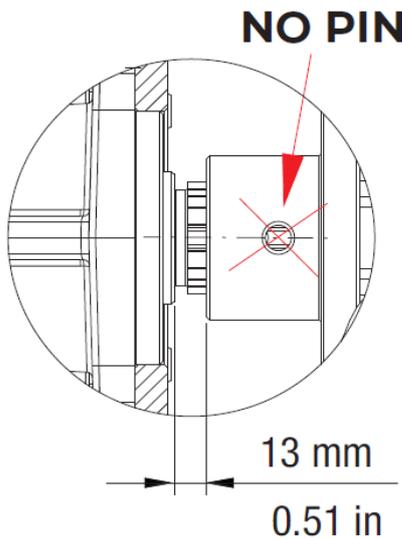
DIMENSIONS FOR PUMP FIXING BRACKET



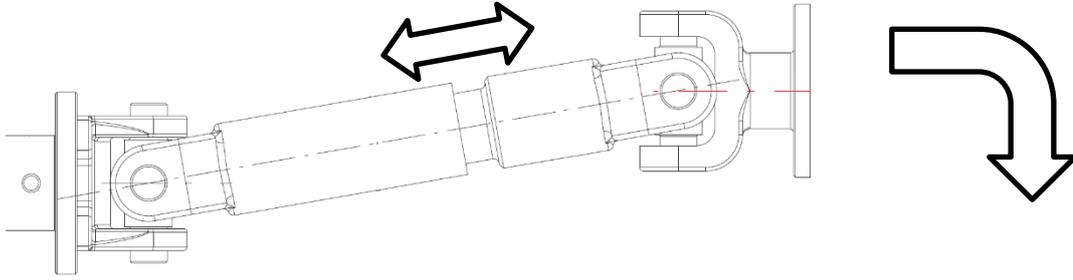
**4x M12 Q10.9 (7/16" Grade 8)
80 Nm (59 lbf ft)**



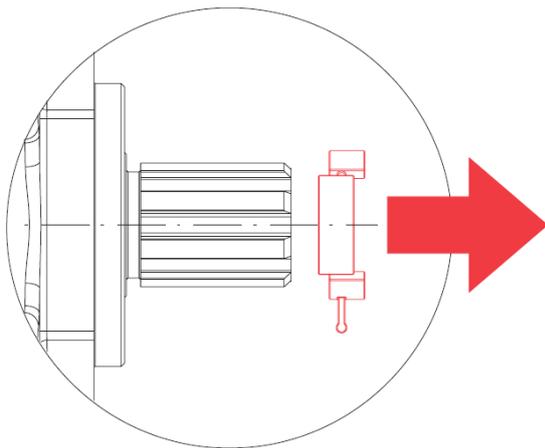
Remove the plastic ring after the pump is fitted.



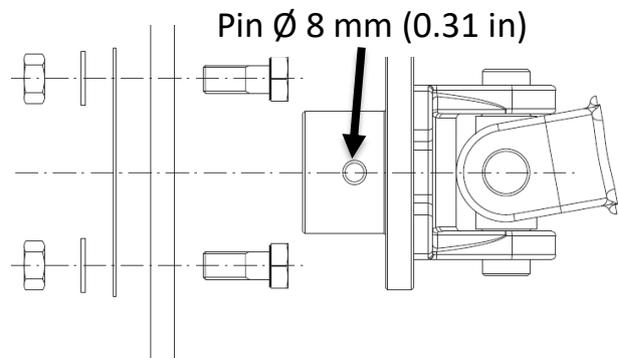
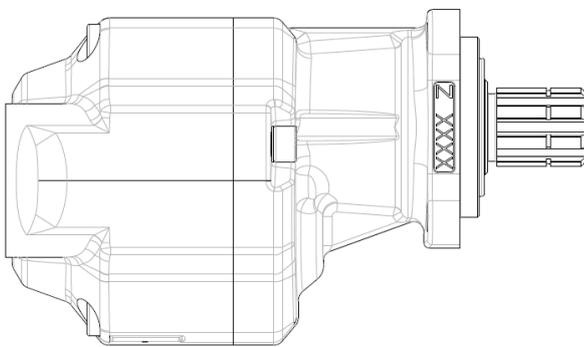
5 TELESCOPIC CARDAN SHAFT MOUNT



Cardan shaft should be balanced before it is fitted



Remove the plastic ring before fitting the pump.



**4x M12 Q10.9 (7/16" Grade 8)
80 Nm (59 lbf ft)**

6 FITTINGS AND ACCESSORIES

