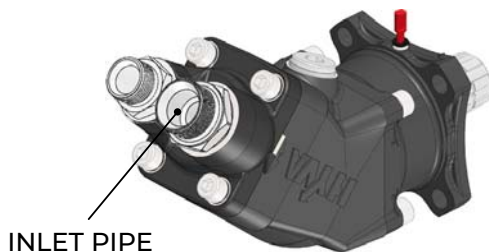


- 01** Verify that pump is, at least, 100 mm under the minimum level of the tank.
Before starting the pump bleed the air.
Fill the pump with oil before start-up as shown in the picture.



FLUID REQUIREMENTS					
FLUID	Mineral or synthetic compatible with the following seals: FKM, FPM, HNBR				
KINEMATIC VISCOSITY SUGGESTED	Average ambient temp. (°C)	< -40	-40÷10	10÷35	> 35
	VG (cSt = mm²/s)	16	22	32	46
OPTIMALE KINEMATIC VISCOSITY			VG= 10 cSt ÷ 100 cSt		
MAX KINEMATIC VISCOSITY SUGGESTED AT THE START-UP			VG= 750 cSt		
VISCOSITY INDEX SUGGESTED			VI > 100		
WORKING TEMPERATURE			- 40°C ÷ 140°C		
OIL FILTERING			> 200 bar: 10 µm < 200 bar: 25 µm		
INLET PRESSURE			0,85 ÷ 2 bar absolut		
PUMP TYPE	47/55/64/ 80 - Oil quantity		~0.4 l		
	84/108/130 - Oil quantity		~0.6 l		

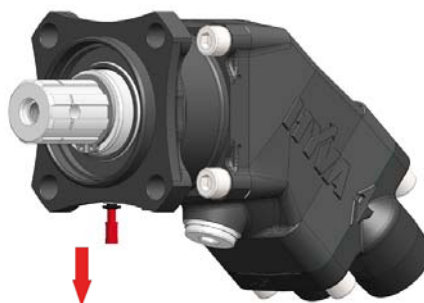
In very cold conditions, the pump should be allowed to run without load for about 2 min, or until the oil reaches a suitable temperature.
note: Please check the rotation of the pump before installing.



SUCTION HOSE	LP 20	LP 24	LP 28	LP 32
FLOW [lpm]	60	60-85	60-120	120-150
PUMP SIZE	max. rpm	max. rpm	max. rpm	max. rpm
25	2300			
34	1700	2400		
40	1400	2100		
47		1700	2400	
64		1300	1700	2300
80			1400	1800
84			1300	1700
96				1500
108				1400
130				1100



To prevent splines from wear please grease pump shafts and / or couplings.



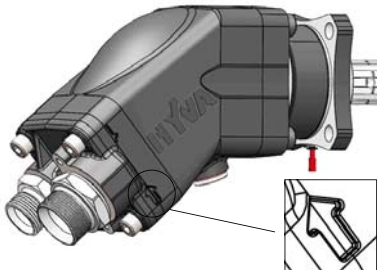

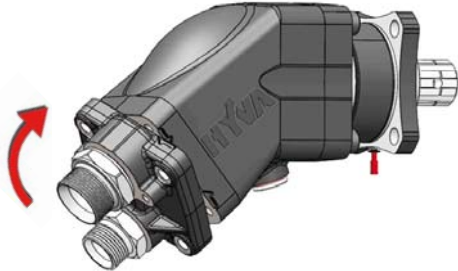

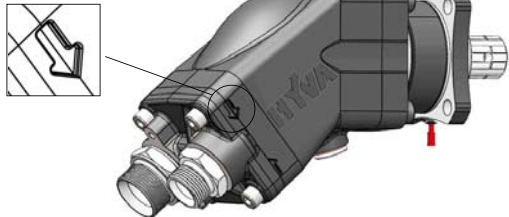
Remove the protection plug and install the leakage system fitting.



WARNING: if oil leaks through the transparent tube the pump should be replaced immediately to avoid gearbox damage.

WARNING
Remove the protection plug and install the leakage system fitting.

CHANGE DIRECTION OF ROTATION

<p>02</p>  <p>PUMP ROTATION INDICATOR</p>	<p>RIGHT Rotation pump</p>																												
<p>03</p> 	<p>Slide the 4 bolts out of the rear cover</p>																												
<p>04</p> 	<p>Rotate the cover by 180° WITHOUT LIFTING</p> <p>Pay attention not to damage the paper gasket. In case of damage replace the gasket with the same thickness of original one. Spare gaskets are included in seal kit reported on the pump data sheets.</p>																												
<p>05</p> 	<p>Fit the 4 bolts</p> <table border="1" data-bbox="938 1429 1474 1615"> <thead> <tr> <th colspan="7">TIGHTENING TORQUE</th> </tr> <tr> <th>Thread</th> <th>(mm)</th> <th>M8</th> <th>M10</th> <th>M12</th> <th>UNC 3/8</th> <th>UNC 7/16</th> </tr> </thead> <tbody> <tr> <td>Screws - nuts</td> <td>(Nm)</td> <td>25</td> <td>50</td> <td>80</td> <td>25</td> <td>60</td> </tr> <tr> <td>Studs</td> <td>(Nm)</td> <td>10</td> <td>20</td> <td>30</td> <td>10</td> <td>20</td> </tr> </tbody> </table>	TIGHTENING TORQUE							Thread	(mm)	M8	M10	M12	UNC 3/8	UNC 7/16	Screws - nuts	(Nm)	25	50	80	25	60	Studs	(Nm)	10	20	30	10	20
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