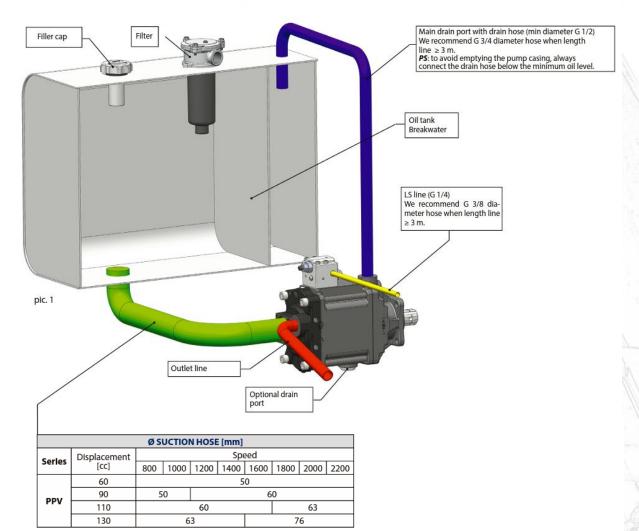
MI PPV 60-90-110-130



Start-up and mounting guide for variable displacement pumps

60-90-110-130 series

- 1. Make sure all the components are clean and there are no external contaminations inside.
- Connect hoses (pic. 1) and fulfill the pump (pic. 2)
 During first start-up run the pump with delivery pressure between 50 and 100 bar for at least 10 mln.
- 4. Please adjust set-up if needed.5. In case of low temperature the pump has to run without load until the oil reaches a proper viscosyt.



HYDRAULIC FLUID							
Fluid	Mineral or synthetic compatible with the following seals: HNBR						
Allowed temperature range	-25 +80 °C						
Kinematic viscosity suggested	Viscosity index sugge- sted (°C)	< -40	-40÷10	10÷35	> 35		
	VG (cSt = mm ² /s)	16	22	32	46		
Optimale kinematic viscosity		VG= 10 cSt ÷ 100 cSt					
Max kinematic viscosity suggested at start-up		VG= 750 cSt					
Viscosity index suggested		VI > 100					

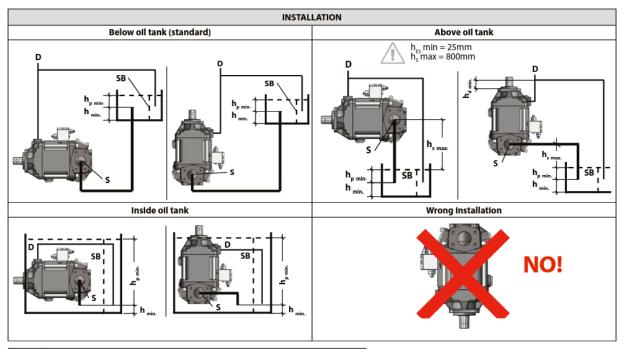
FILTRATION					
Working pressure (bar)	ΔP<140	140<∆P<210	ΔP>210		
Contamination class NAS 1638	9	8	7		
Contamination class ISO 4406-1999	20/18/15	19/17/14	18/16/13		
To be optained with filter βx >75 according ISO 16889	10 μm				

PUMP FILLING				
Please full fill at least 80% capacity start-up	volume before pur	np		
	PPV 60-90-110 total capacity	800ml		
	PPV 130 total capacity	900ml		
	fig. 2			

MI PPV 60-90-110-130



Mounting positions and settings



LEGENDA		
D	Filling / Drainage	
S	Suction	
SB	Oil tank breakwater	
h _{p min.}	Pump depth inside oil tank (200mm)	
h min.	Min. distance from oil tank bottom (100mm)	
h _{d min.}	Min. height to prevent PPV body emptyng (25mm)	
h _{e may}	Max. allowed suction height (800mm)	

