FAMILY CODE

VARIABLE DISPLACEMENT AXIAL PISTON PUMP



108-050/051

Codice fascicolo: 997-400-10850 Rev://

Data: Venerdì 28 Iuglio 2006

	Installed position	preferably horizontal (other positions on request!)
	Hydraulic fluid	hydraulic oil to DIN 51524 table 2 and 3; ISO VG 10 to 68 acc. to DIN 51519. Viscosity range: min. approx. 10; max. approx. 1000 mm ² /sec. Optimal operation range: approx. 1035 mm ² /sec. Also suitable are biologically degradable pressure fluids type HEES (synth. Ester) at operation temperatures up to approx. +70°C.
	Temperature	Ambient: approx40+60°C. Fluid: -25+80°C, pay attention to the viscosity range! Start temperature down to -40°C is allowable (Pay attention to the viscosity range during start!), as long as the operation temperature during subsequent running is at least 20K (Kelvin) higher.
	Filtration	Recommended contamination level \leq 18/13 conforming DIN ISO 4406.
	Initial operation	All pipes should be flushed with the same fluid intended for the later service prior to initial operation. The housing of the pump should be primed via the upper case drain port. The case drain line must be routed in such a way the running empty is prevented. The pressure limiting valve should be set to 50 bar or lower for initial operation and the firt few minutes of regular service. Attention: do not screw-out the set screw of the sequence/pressure limiting valve beyond the red index marking!

Angle of the swash plate	21,5°
Required inlet pressure abs. for opern circuit	0,85 bar
Max. permissible drive torque	430 Nm
Max. rev. rating when self priming and max. angle of the swash plate at 1 bar abs. inlet pressure.	2500 rpm
Min. rev. rating for permanent running	500 rpm
Required torque at 100 bar	100 Nm
Drive power for 250 bar and 2000 rpm	53 kW
Weight torque	30 Nm
Inertia moment	0,005 kg m²
Sound level at 250 bar, 1500 rpm and max. swash plate angle (Measured in a sound measuring room DIN ISO 4412, distance 1m)	75 dB(A)
Pressure range differential pressure	p 1530bar (setting 25 bar)
Pressure limitation	50 400 bar
Nomenclature axial piston pump according to the swash plate principle	
Direction of rotation clock wise or counter clock wise	
Changing the rotation direction turn the endplate and change the port plate.	

Nominal Maximum Displacement Weight **Rotation** pressure pressure Pump type Left bar cm³/rev Right bar kg **VDPP 60 ISO** 108-050-00609 108-050-00618 400 350 60 22 108-051-00608 **VDPP 60 SAE** 108-051-00617

SUCTION FITTINGS						
		WITH THREAD				
	45°	90°	THREAD	THREAD		
Ø 50	108-950-35045	108-950-35090	108-950-35000			
Ø 64	108-950-36445	108-950-36490	108-950-36400			
G 1″ 1/2				108-950-41129		
G 1″ 1/4				108-950-41147		



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VARIABLE DISPLACEMENT AXIAL PISTON PUMP





	RIGHT	LEFT	
SEALS	108-950-50600		
DISTRIBUTOR PLATE	108-950-10608	108-950-20606	
REGULATOR LSN	108-950-00100		
PRESSURE REGULATOR	108-950-00208		

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