

Variable displacement motor Series MVS1



Main applications

- Suitable for use in either open or closed loop circuits
- Wheel drives
- Track drives
- Winches

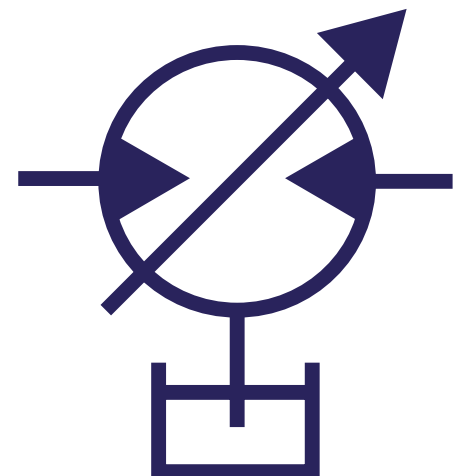
Advantages of the LEDUC variable displacement motors

- 9 pistons designed for high starting torque and reduced pulsations at low speed
- Continuous variation in displacement from V_{max} to V_{min} (=0)
- High operating ratio (5 :1)
- Compact size, high weight-power ratio
- High speed and high operating pressure
- 3 choices of displacement control : see page 9 (HPA, H2N, E2N)

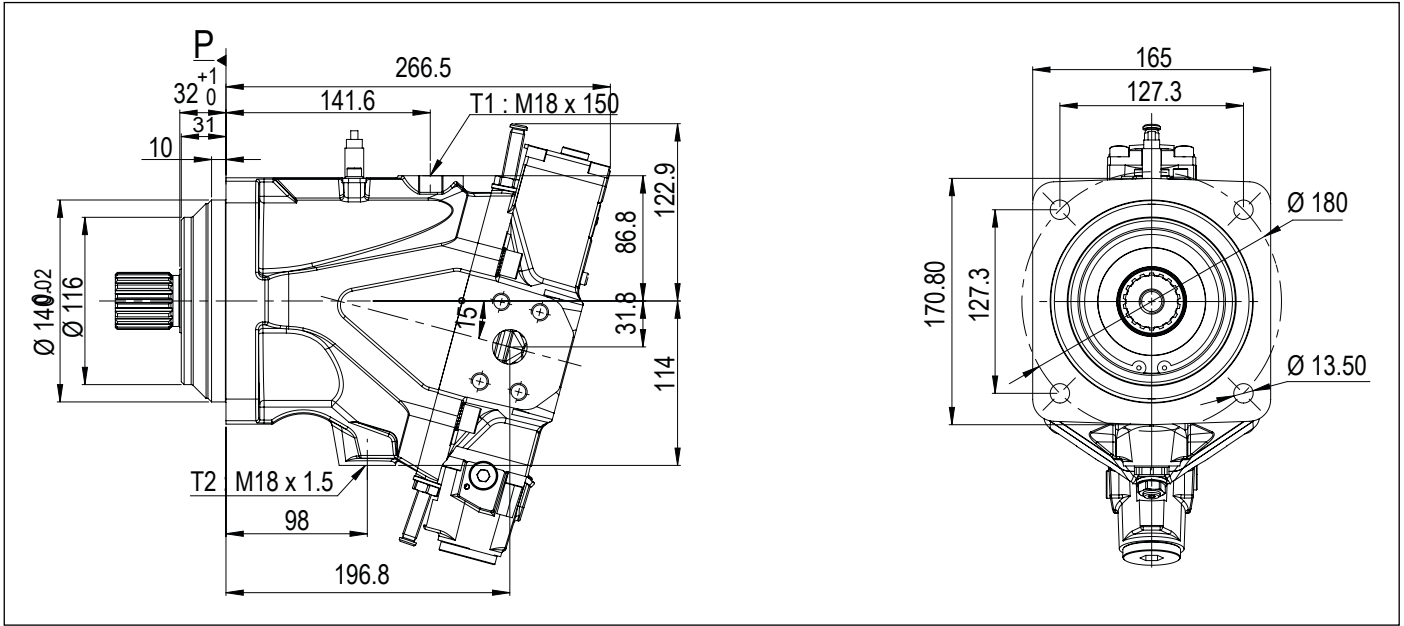
Technical characteristics of LEDUC variable displacement motors

		85	115
Max. displacement	V_{max}	28.1 ⇄ 85.2	
Min. displacement	V_{min}		
Displacement ratio 5	$V_{max} / 5$	17 cc	23.1 cc
Max. continuous operating pressure	P_{max}	400 bar	400 bar
Max. peak pressure	P_p	450 bar	450 bar
Max. speed at max. displacement	N_{max} at V_{max}	3900 rpm	3550 rpm
Max. speed at min. displacement	N_{max} at V_{min}	6800 rpm	5600 rpm
Max. flow absorbed	Q_{max}	331 l/min	408 l/min
Max. output power	P_{max}	220 kW	271 kW
Max. output torque at P_{max} and V_{max}	C_{max}	54 daN.m	73 daN.m

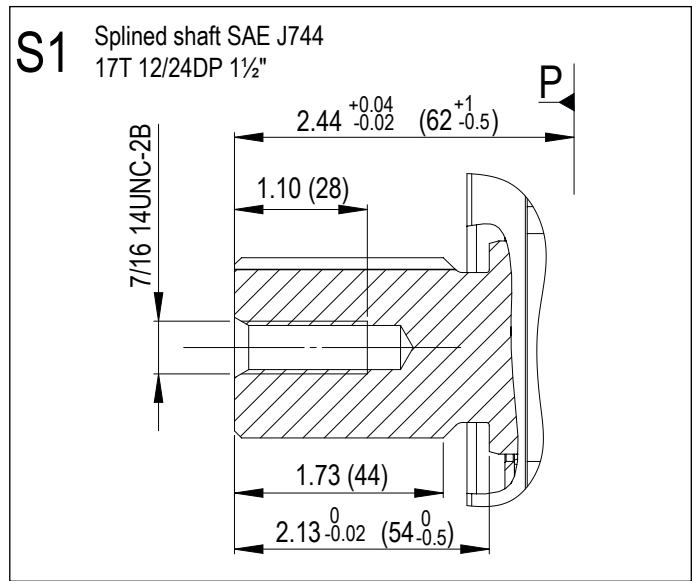
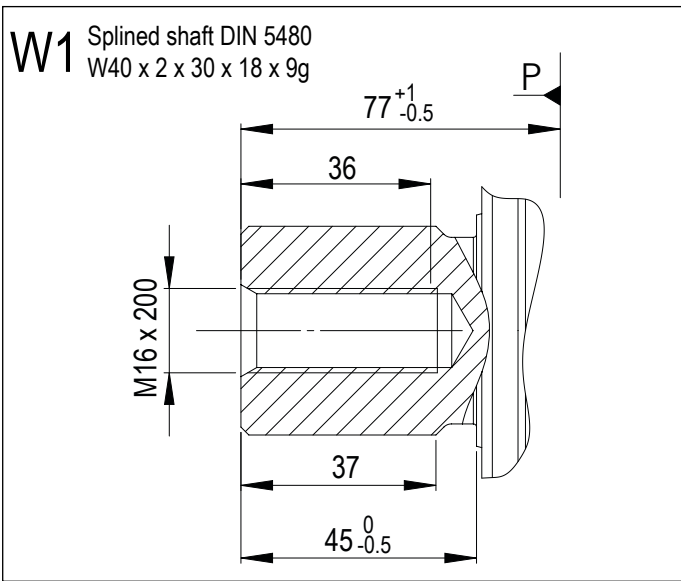
Currently two models of motor are offered : 85cc/rev and 115 cc/rev. Models to extend the range are currently being developpe.



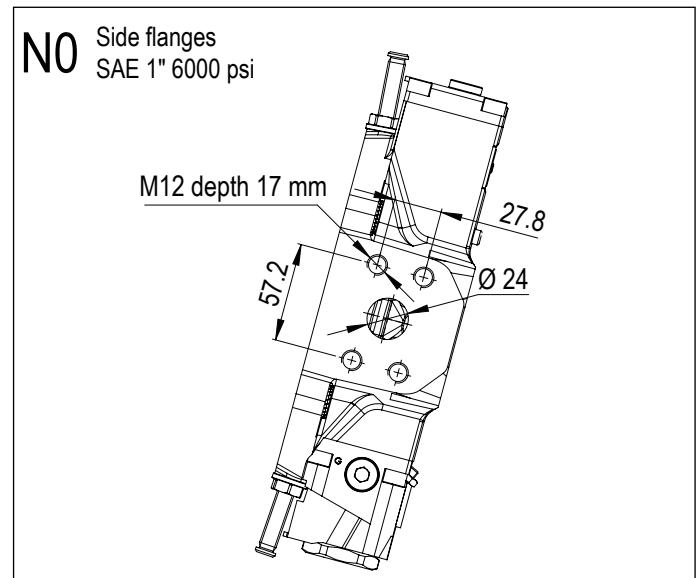
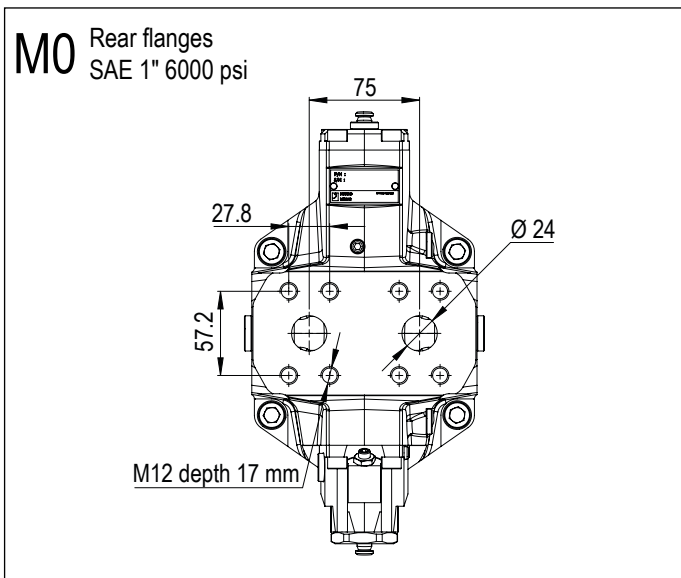
**HYDRO
LEDUC**

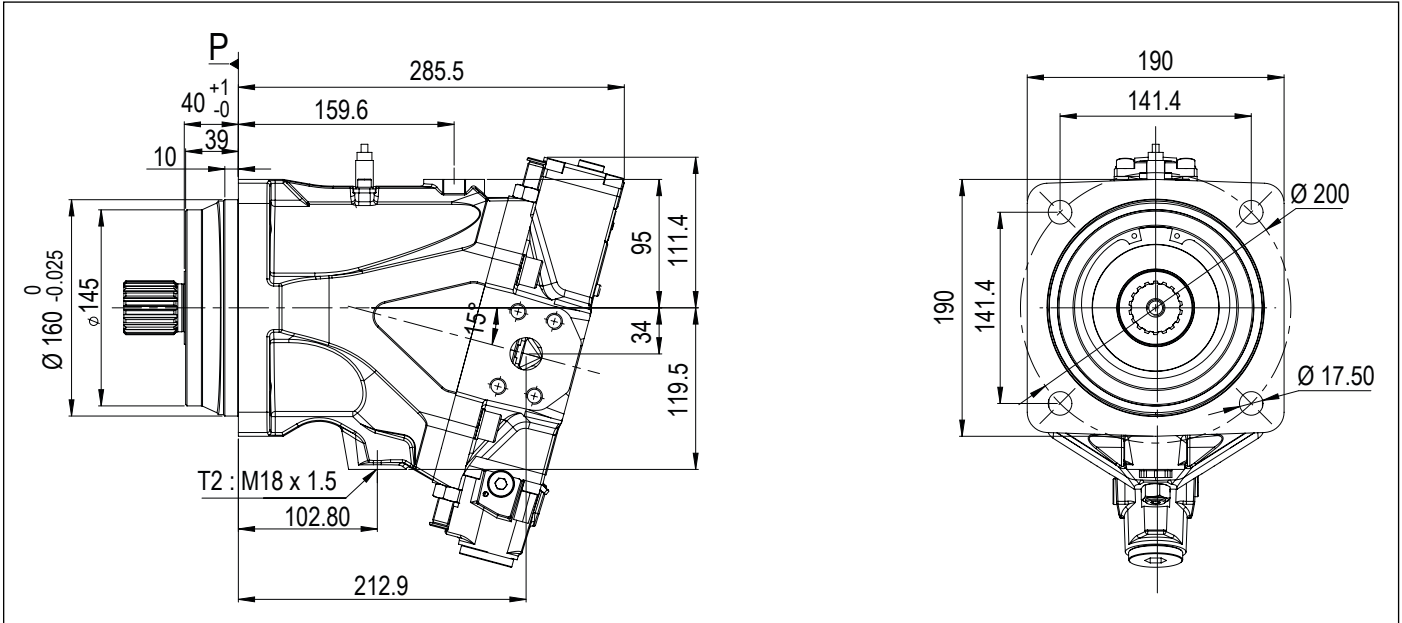


► Shaft - code **04**

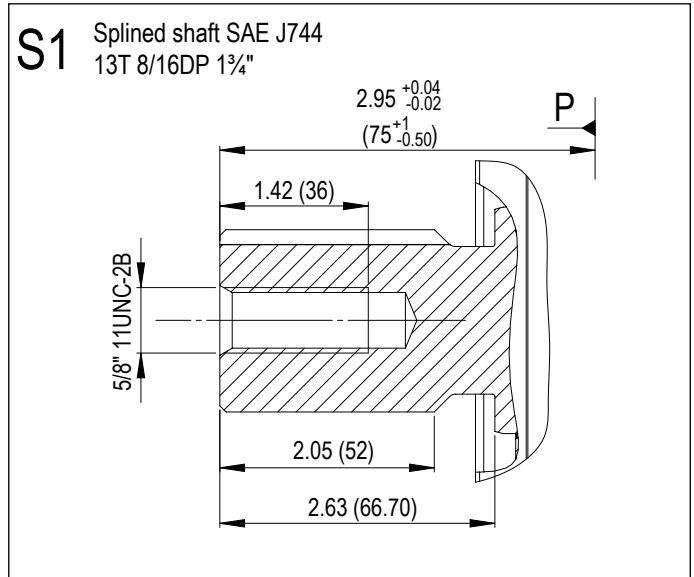
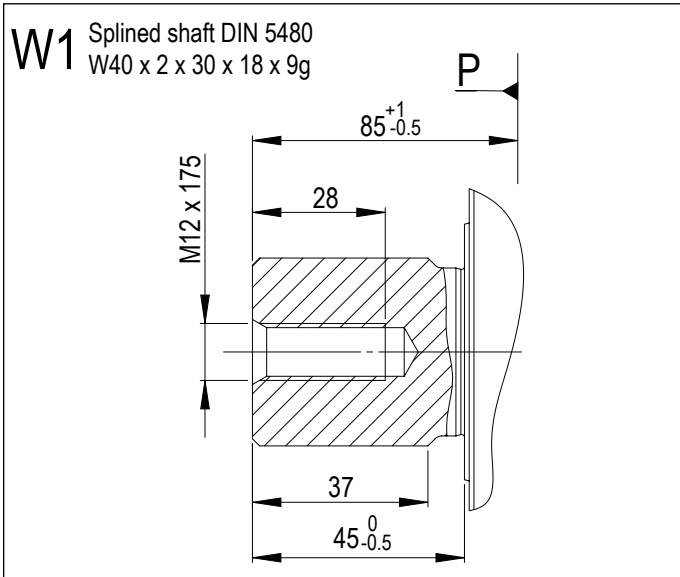


► Inlet ports - code **05**

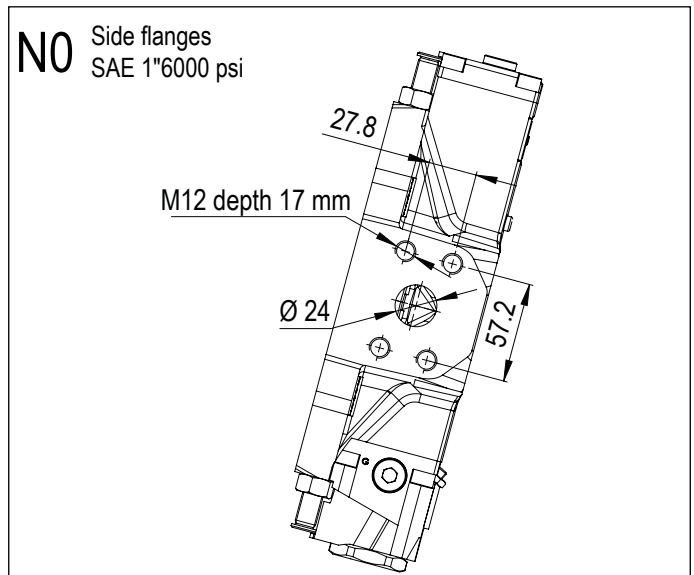
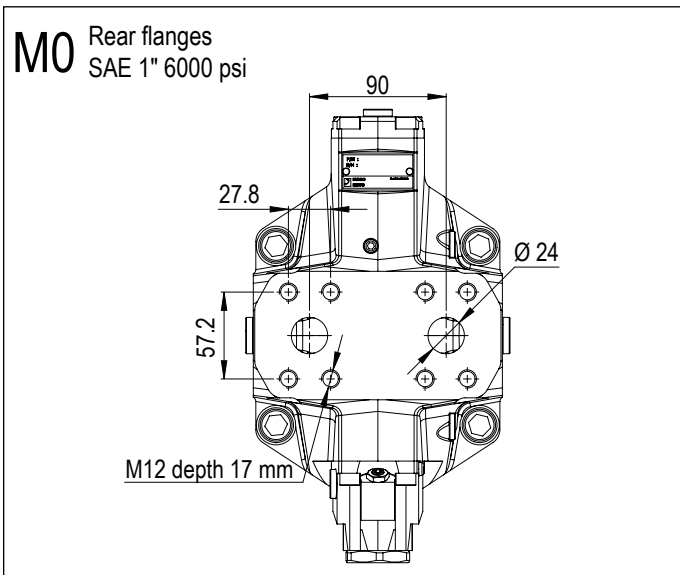


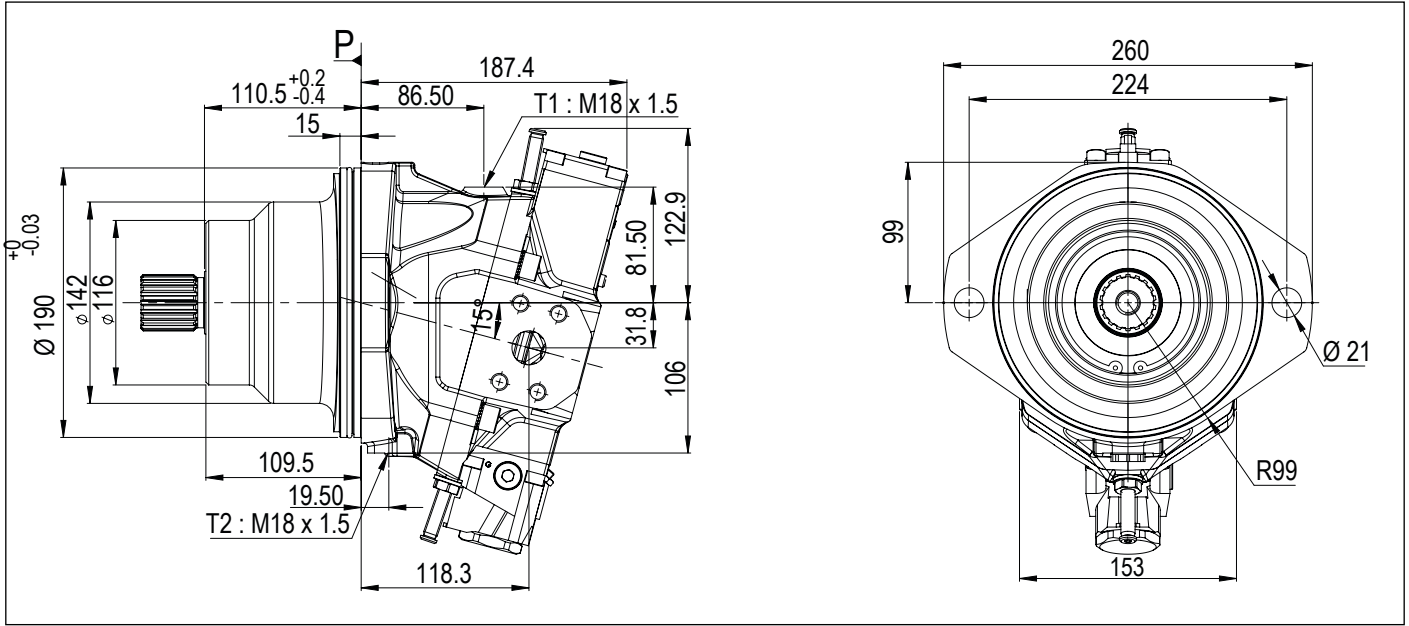


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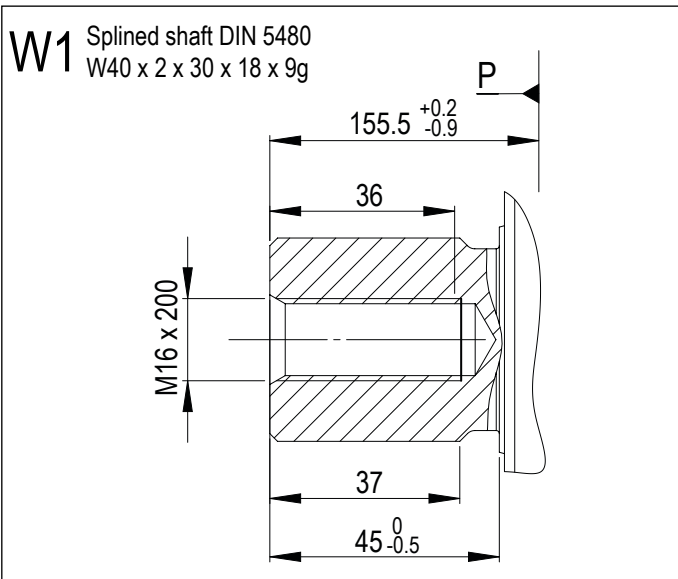


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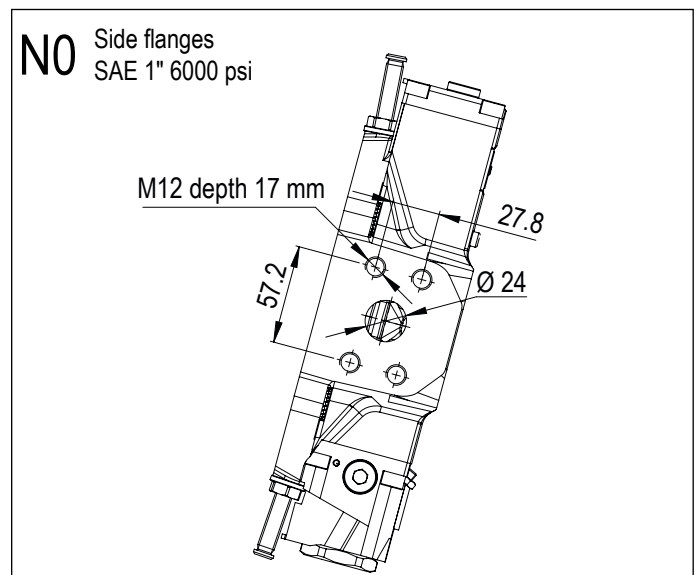
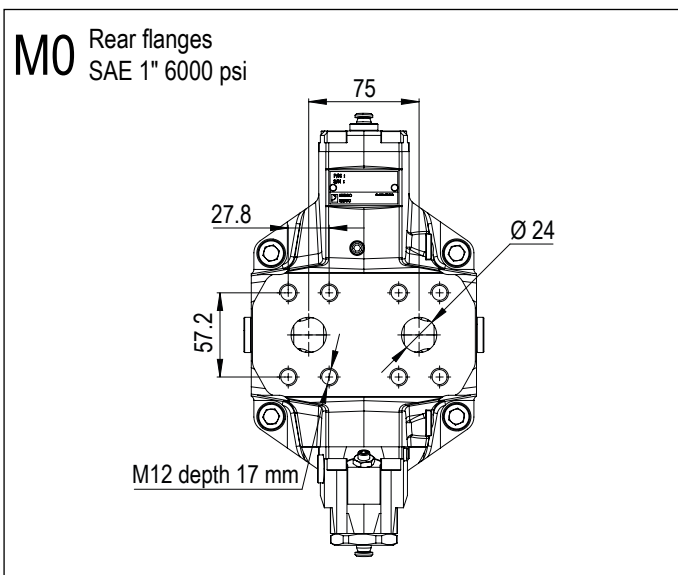


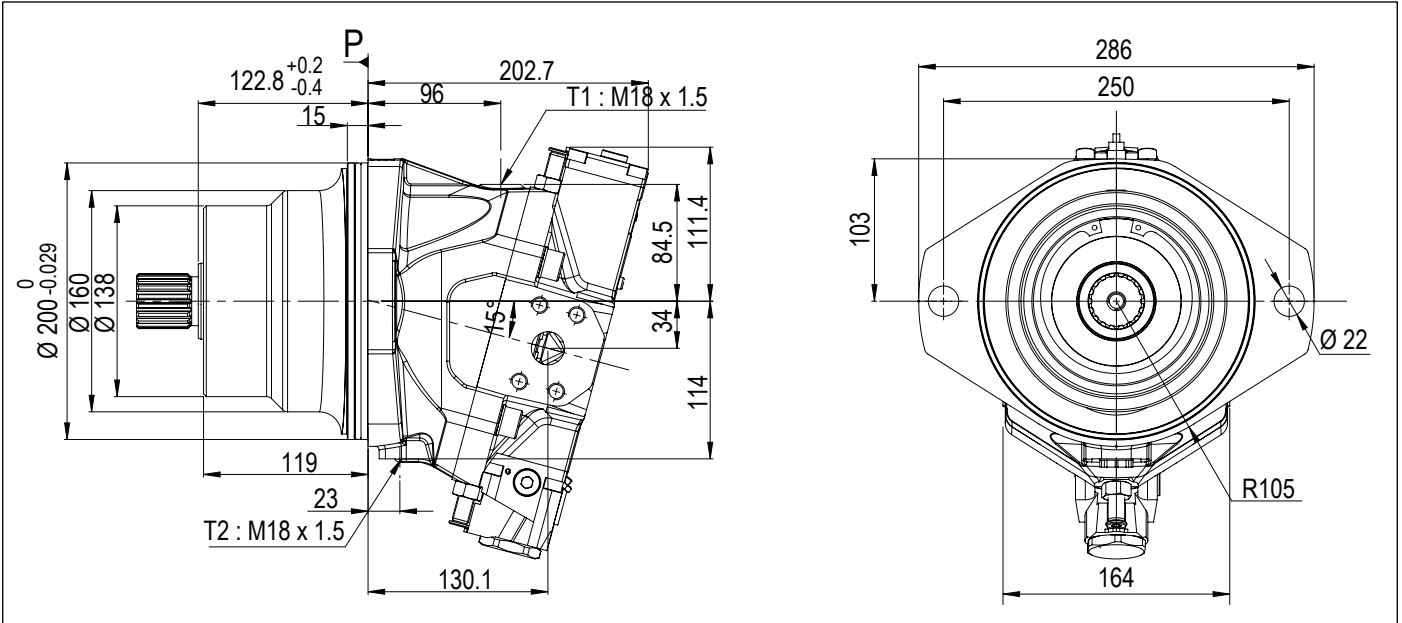


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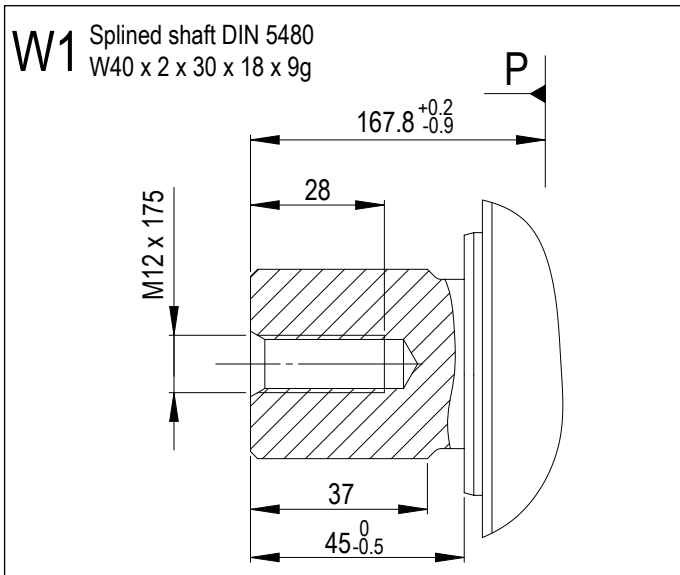


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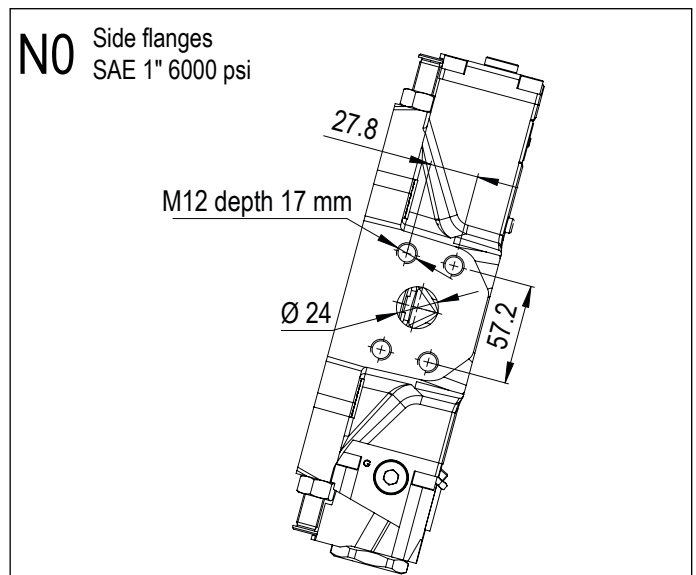
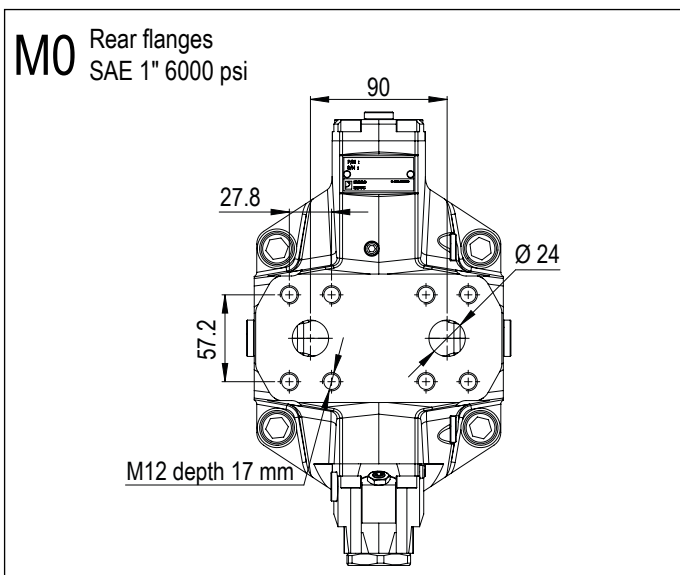




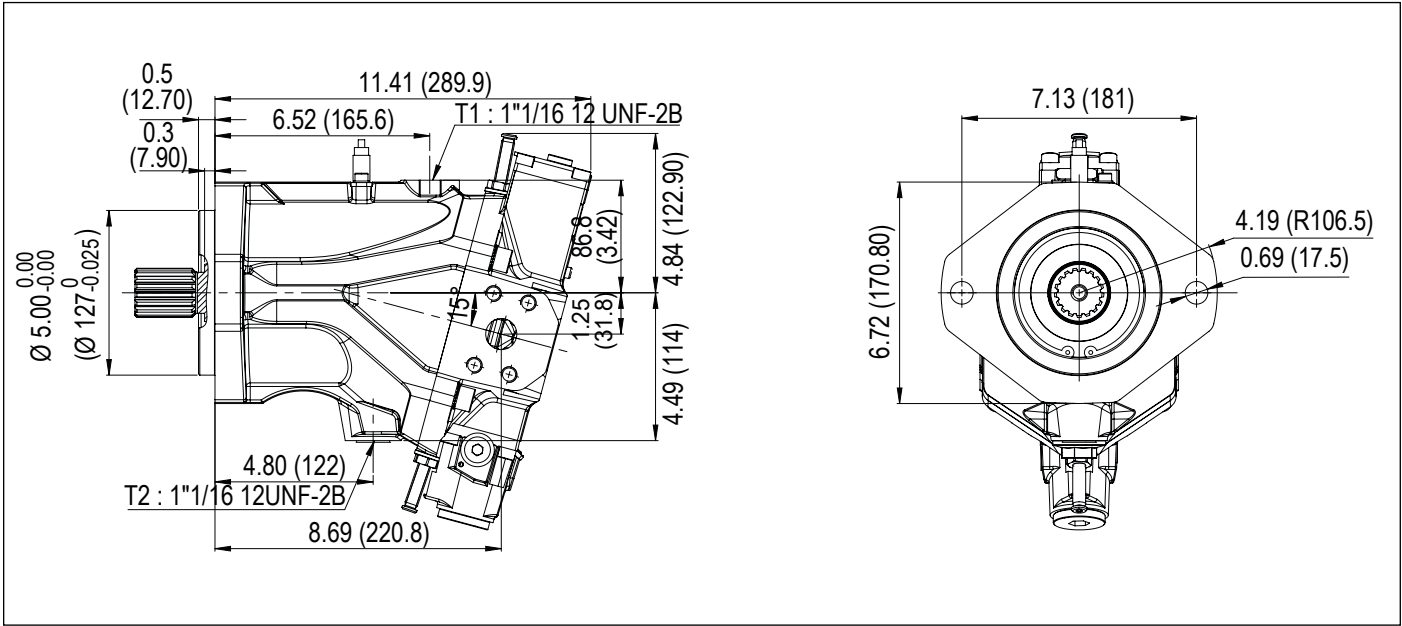
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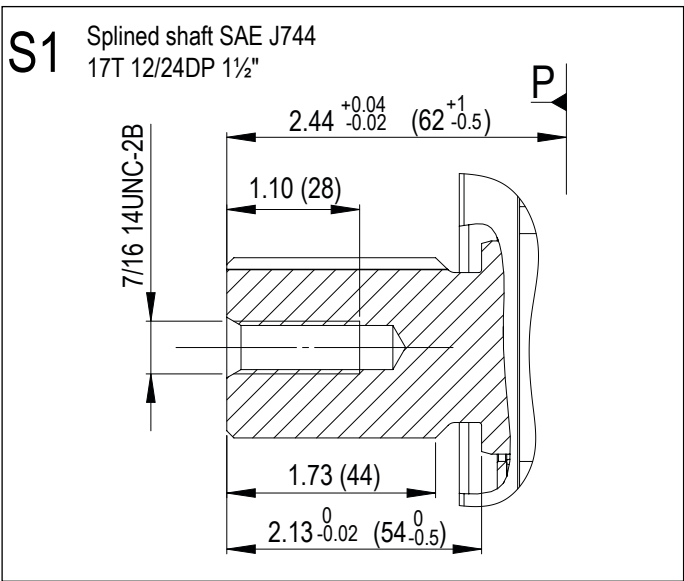
► Inlet ports - code **05**



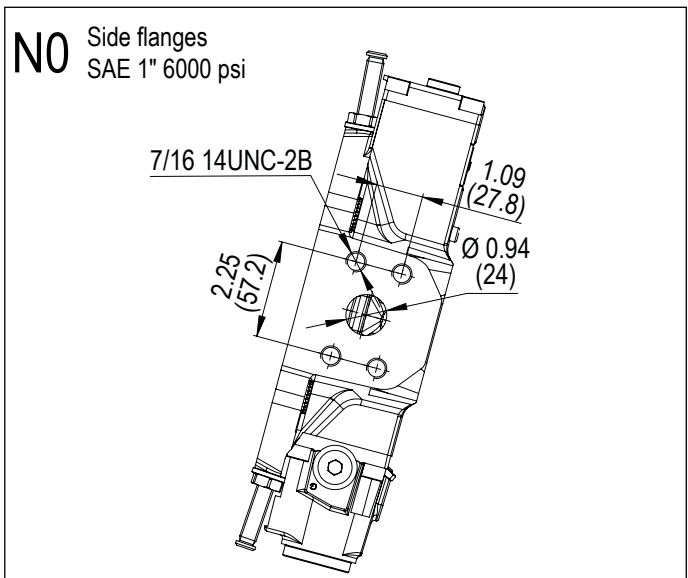
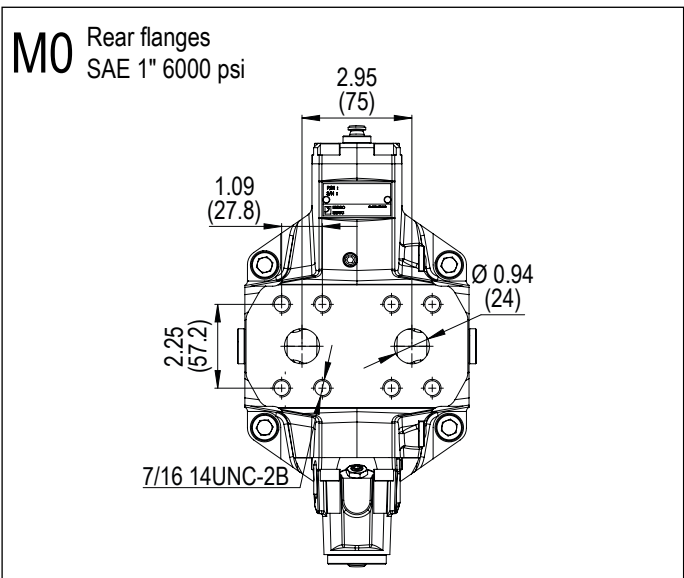
MVA 85 (SAE version)



► Shaft - code **04**



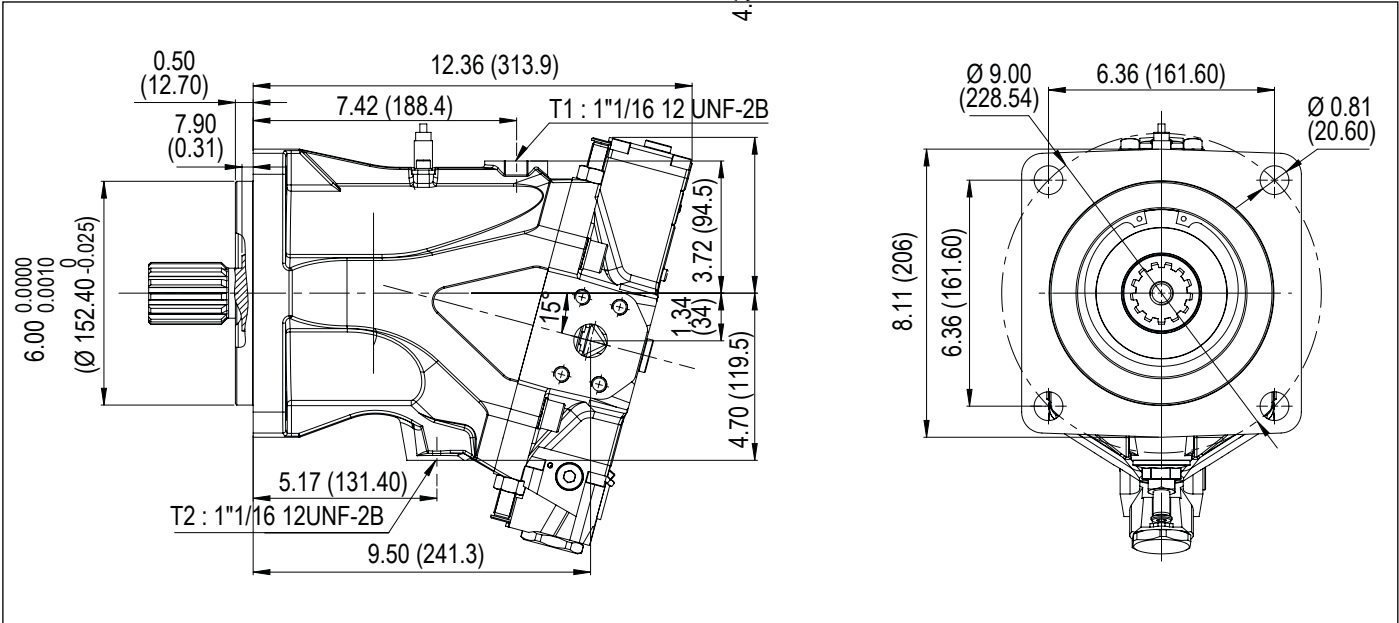
► Inlet ports - code **05**



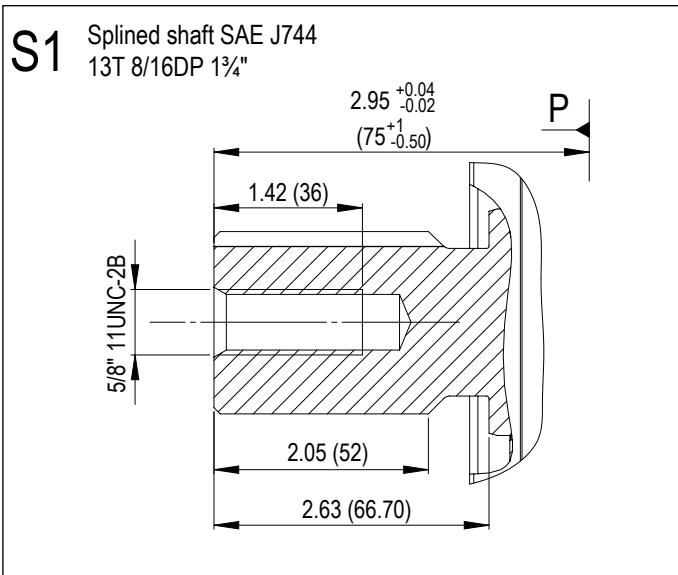
Dimensions (in mm) are indicated only as an indication.

MVA 115 (SAE version)

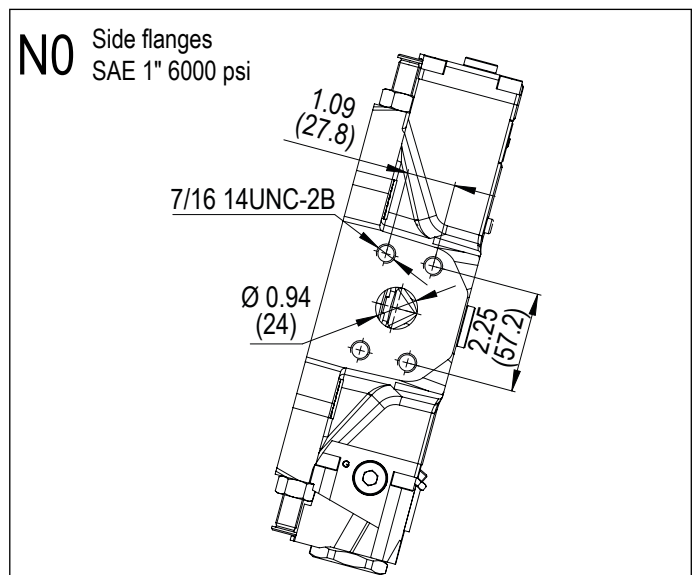
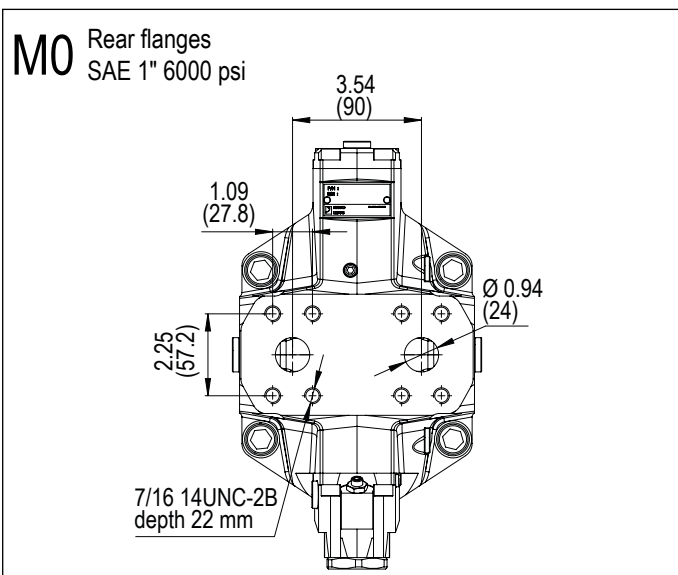
4.39 (111.4)



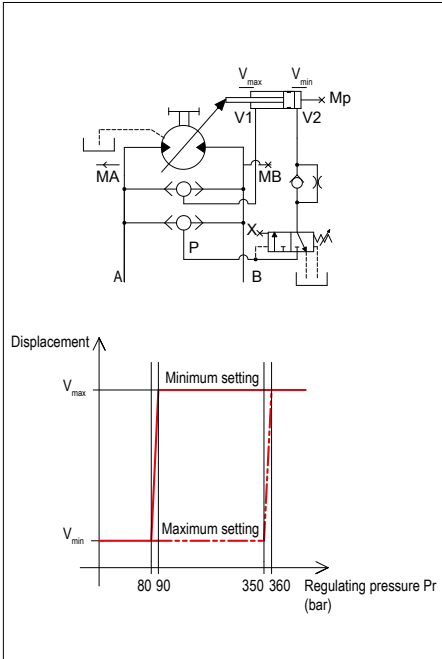
► Shaft - code 04



► Inlet ports - code 05

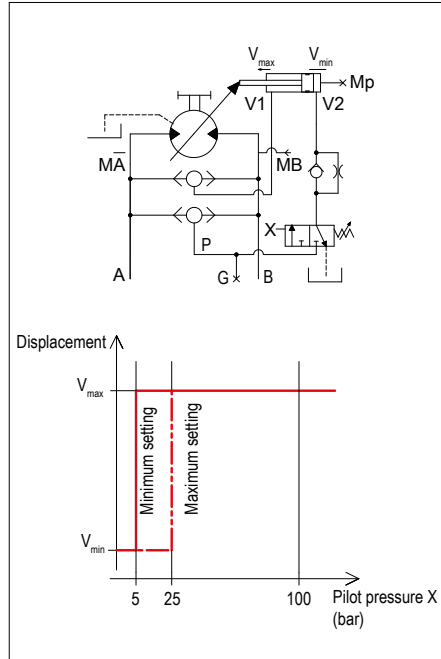


Automatic displacement control,
high pressure
HPA



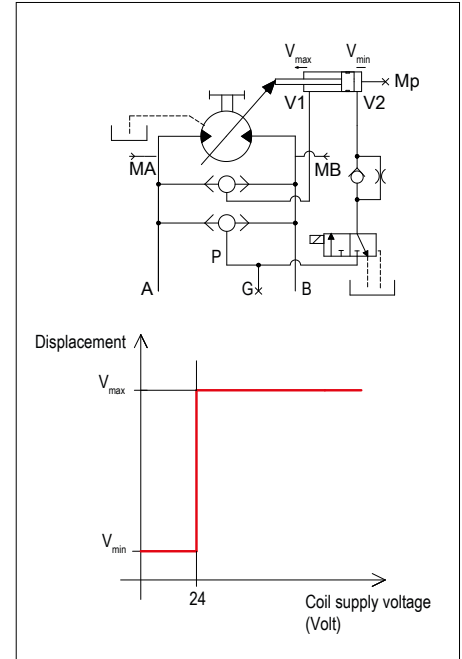
The automatic displacement control, high pressure, automatically adjusts displacement as a function of the set pressure level. This can be set between 80 and 350 bar. Once set pressure has been reached, the motor starts changing displacement from V_{min} to V_{max} . Pressure remains stable, torque increases and speed decreases until V_{max} is reached. Once V_{max} has been reached, motor pressure can exceed set pressure if required.

Two speed hydraulic adjustment of
displacement:
H2N



Setting V_{min} or V_{max} displacement is done by applying an external pilot pressure, or not. Pilot pressure can be set by a screw from 5 to 25 bar. Once pilot pressure has been reached, the motor starts changing displacement from V_{min} to V_{max} (standard configuration). From V_{max} to V_{min} on request. Important note: the pilot pressure line X must be drained when it is not under pressure (to ensure evacuation of leakage flow).

Two speed electric adjustment of
displacement:
E2N



Setting V_{min} or V_{max} displacement is done by applying an external electrical current via a solenoid, or not. Standard voltage of the coil is 24V (12V on request). When the coil is activated, the motor starts changing displacement from V_{min} to V_{max} (standard configuration). From V_{max} to V_{min} on request.

Services of Samer:

- Systems design with pumps and motors in closed and open loop circuits including valves
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- Repair of hydraulic components
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