

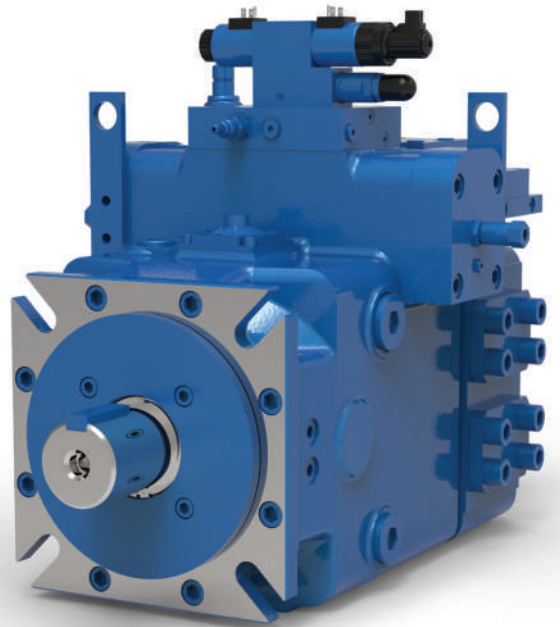
MASCOT

CLOSED LOOP HP SERIES PUMP

Product overview:

The **MASCOT** HP Series is a range of high-capacity axial piston pumps developed for high-flow closed-loop hydrostatic applications. The series is available in three displacement sizes—350, 500, and 750 cc/rev—providing flexibility to meet a wide range of system flow requirements.

With its large displacement capacity, the HP Series is designed to deliver high flow rates for demanding hydrostatic transmission systems, making it well suited for heavy-duty mobile and industrial applications requiring high hydraulic power and dependable performance.



Features:

- High pressure compatibility up to 350 bar
- Smooth and precise displacement control
- Designed for reliable operation under demanding duty cycles
- High mechanical and volumetric efficiency
- Good fluid compatibility

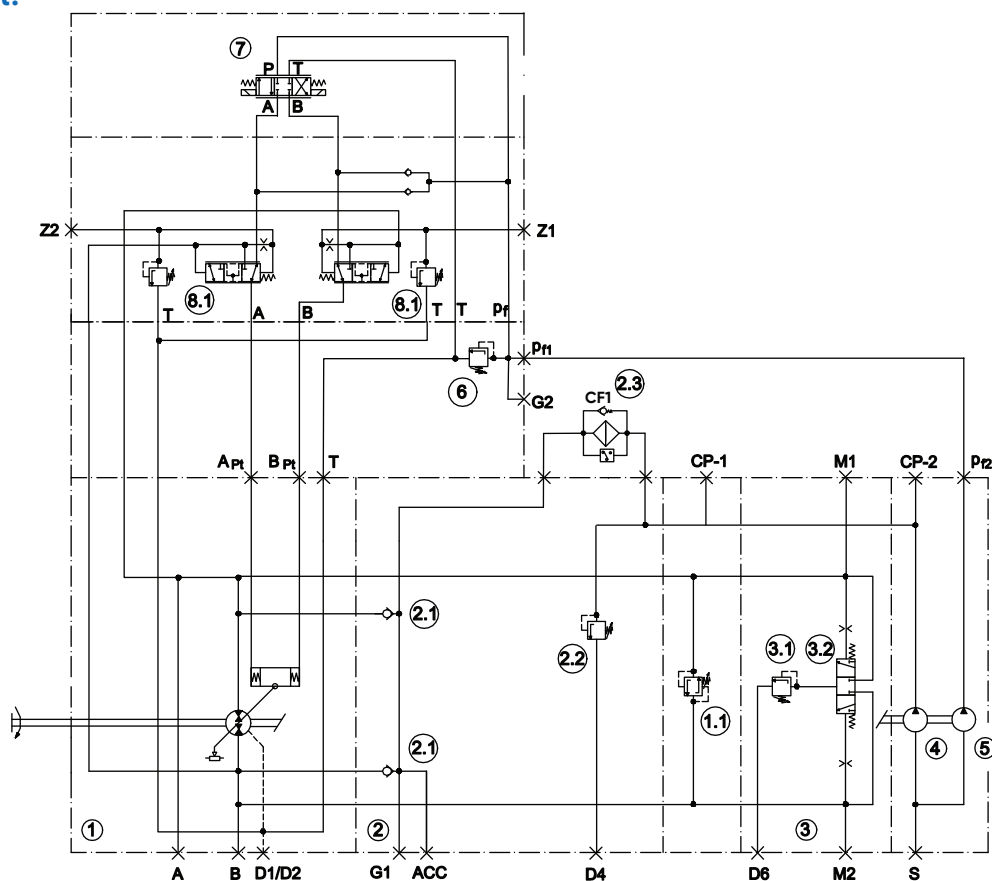
Applications:

- Marine drives
- Winches
- Conveyors
- Crushers
- Mining equipment
- Material handling systems

Technical Specifications:

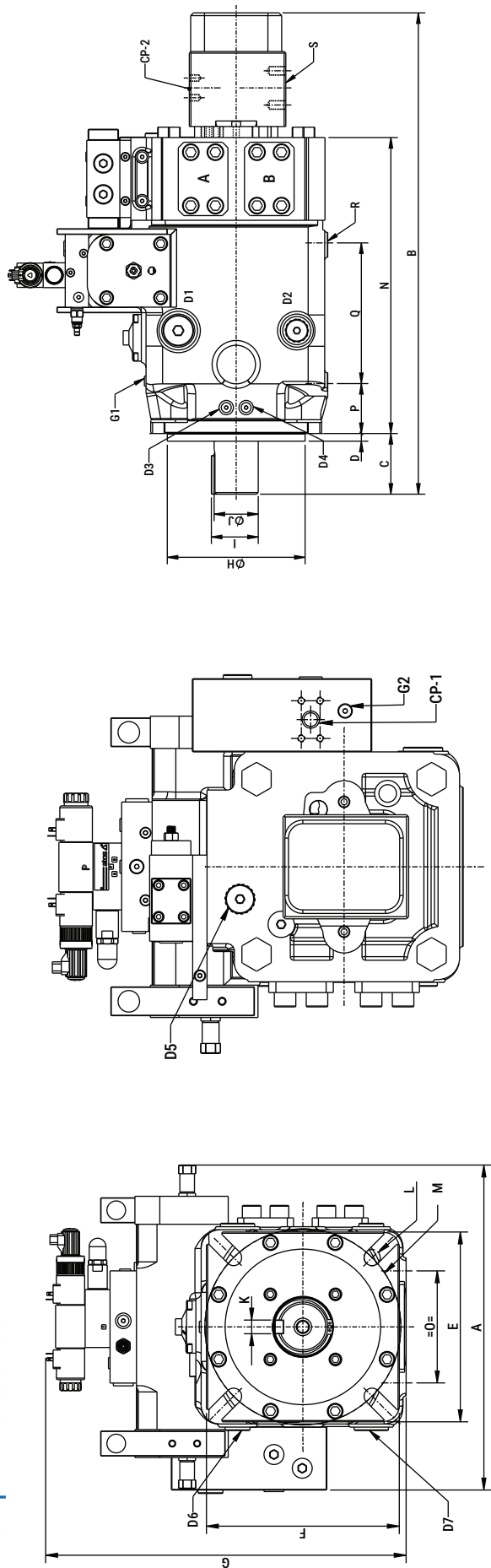
Model		HP350	HP500	HP750
Displacement (cm³)		350	500	750
Input speed (rpm)	Min.	200		
	Max.	1800	1800	1500
SAE Flange (A & B)		1-1/2" SAE 6000 psi	2"SAE 6000 psi	3"SAE 6000 psi
Weight (kg)		265	440	484
Mass Moment of Inertia (J)		0.2	0.6	0.65
Temperature (°C)	Min.	-20		
	Max.	75		
Nominal Pressure (bar)			350	
Maximum Pressure (bar)			420	
Charge Pump displacement (cm³)		84	120	180
Charge Pressure (bar)		20	25	
Case Pressure	Min.	0.5		
	Max.	5		

Pump Circuit:



A, B	System Port	G1	Gauge port charge pressure	S	Suction port for Charge and Pilot Pump	3	Flushing block
A _{pi} , B _{pi}	Pilot oil port pump side A, B	G2	Gauge port pilot pressure	Z1, Z2	Pilot port pressure control	3.1	Low pressure relief valve
D1, D2	Drain Port	ACC	Accumulator port	1	Pump	3.2	Flushing flow shuttle valve
D4	Drain Port (charge oil)	CP-1	Additional charge pump outlet port	1.1	High pressure relief valve	4	Charge pump
D6	Drain Port (flushing oil)	CP-2	Additional charge pump outlet port	2	Charge block	5	Pilot pump
M1, M2	Gauge port system pressure	ppf1	Port for pilot pressure	2.1	Charge check valve	6	Pilot pressure relief valve
T	Tank	ppf2	Piston pump outlet port	2.2	Charge pressure relief valve	7	Proportional valve
				2.3	Charge filter	8.1	Pressure Relief valve

Pump Dimensions:



Module	PORT CONNECTIONS			360CC	500CC	750CC
S	Suction Port	2" SAE 3000 psi	2" SAE 3000 psi	2" SAE 3000 psi	2" SAE 3000 psi	3" SAE 3000 psi
A,B	System Pressure Port	1-1/2" SAE 6000 psi	1-1/2" SAE 6000 psi	2" SAE 6000 psi	2" SAE 6000 psi	3" SAE 6000 psi
CP-1	EXTERNAL PORT OF CHARGE PRESSURE	G3/4" BSPP	G3/4" BSPP	1" SAE 3000 psi	1" SAE 3000 psi	1" SAE 3000 psi
CP-2	ADDITIONAL PORT OF CHARGE PUMP OUTLET	1" SAE 3000 psi	1" SAE 3000 psi	1-1/4" SAE 3000 psi	1-1/4" SAE 3000 psi	1-1/2" SAE 3000psi
D1,D7	DRAIN PORT	1-1/4" BSPP	1-1/4" BSPP	1-1/2" BSPP	1-1/2" BSPP	1-1/2" BSPP
D2,D6,D5	DRAIN PORT	1-1/4" BSPP	1-1/4" BSPP	1-1/4" BSPP	1-1/4" BSPP	1-1/4" BSPP
D3,D4	DRAIN PORT	1/4" BSPP	1/4" BSPP	1/4" BSPP	1/4" BSPP	1/4" BSPP
G1,G2	GAUGE PORT	1/4" BSPP	1/4" BSPP	1/4" BSPP	1/4" BSPP	1/4" BSPP

PUMP SIZE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)	K (mm)	L (mm)	M (mm)	N (mm)	O (mm)	P (mm)	P (mm)	R (mm)
360CC	500	710	115	8	234	234	500	20077	69	65m6	18h9	Ø22x4,HOLES	Ø250	410	200	80	196	M16x4, HOLES
500CC	523	873	110	14	305	310	580	25077	85	80m6	22h9	Ø26x4,HOLES	Ø315	537	180	90	255	M16x4, HOLES
750CC	560	800	115	10	300	300	570	25077	-	W90x3x28x9g (DIN5480)SPLINE	-	Ø26x4,HOLES	Ø315	550	180	102	255	M16x4, HOLES