

Pumps

Variable displacement axial piston pump type V40M

Thanks to its sturdy construction, the variable displacement axial piston pump is designed for a standard connection using an SAE flange. The benchmark figures for this product are 45 cm³/rev and 320 bar end pressure, allowing for a wide range of applications. These are supported by a high self-suction speed rating and low noise level. Variations with thru-shaft for flange mounting additional variable displacement axial piston pumps and auxiliary pumps are also available. Several different controllers offer the user a wide range of application possibilities. Particular advantages with regard to the mutual coordination arise from a combined application of variable displacement axial piston pumps with proportional directional spool valves type PSV and possibly required load-holding valves type LHT and LHDV.

Features and benefits:

- Good performance/weight ratio
- High self-suction speed
- Different shaft and flange versions

Intended applications:

- Machines for forestry and agricultural purposes
- Cranes and lifting equipment
- Truck-mounted concrete pumps
- Municipal trucks



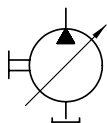
Nomenclature:	Variable displacement axial piston pump
Version:	Individual pump Pump combination
p _{max} :	250 bar (continuous), 320 bar (peak)
Q _{max} :	65 l/min (1450 rpm)
V _{g max} :	45 cm³/rev

Design and order coding example

V40M - 045	R	TX	N	- 1	- 0	- 00	/LS-DA	- 320
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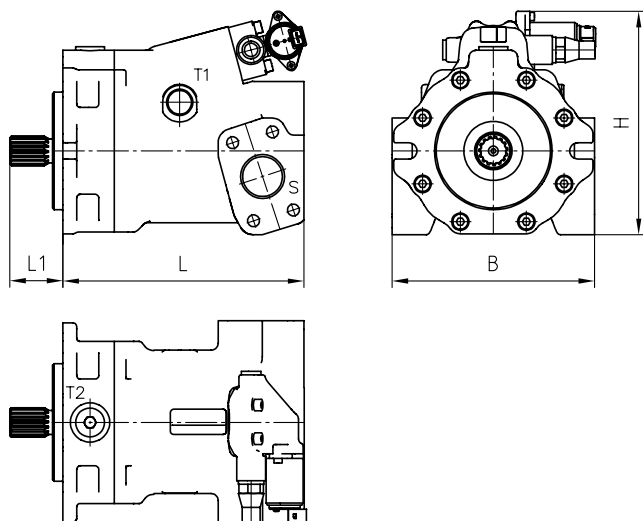
Basic type, nominal size	Pressure specification [bar]	
	Controllers	Load-sensing controller: ■ for proportional directional spool valve with pressure limitation (LS-DA) Power controller: ■ can be controlled electrically, with falling characteristic curve (P1R)
	Release	
	Additional function	
	Shaft version	With/without thru-shaft, radial ports
	Seal material	FKM (V)
	Shaft journal/flange	Spline shaft SAB-B-B J 744 (T) SAE-B-2-Hole J744 (X)
Rotation direction	Anti-clockwise (L), clockwise (R)	
Individual pumps		
Tandem pumps		

Function



General parameters and dimensions

V40M



	Geom. displace- ment	Delivery flow ¹⁾	Nom. pressure	Self-suction speed	Dimensions [mm]				m [kg]
					L	L1	H	B	
	V_g [cm ³ /rev]	Q_{max} [lpm]	$p_{nom} (p_{max})$ [bar]	n [rpm]					
V40M - 045	46,5	65	250 (320)	2900	208,5	45,9	186	175	20,9

1) Approximate reference value at 1450 rpm

Connections:

	Drain port T	LS-signal port	Suction port	Pressure port P
V40M - 045	7/8-14 UNF-28	M12 x 1.5	SAE 1 1/2" 500 psi	SAE 1" 6000 psi

Associated technical data sheets:

- Variable displacement axial piston pump type V40M: [D 7961](#)

Similar products:

- Variable displacement axial piston pumps type V60N: [D 7960 N](#)
- Variable displacement axial piston pumps type V30: [D 7960](#), [D 7960 E](#)
- Fixed displacement axial piston pump type K60N: [D 7960 K](#)
- Axial piston motors type M60N: [D 7960 M](#)

Prop. directional spool valve:

- Type PSL/PSV sizes 2, 3 and 5: [D 7700-2](#), [D 7700-3](#), [D 7700-5](#)
- Type PSLF/PSVF size 3, 5 and 7: [D 7700-F](#), [D 7700-7F](#)

Load holding valves:

- Type LHK, LHDV, LHT: [D 7100](#), [D 7770](#), [D 7918](#)