

A20VO Series Axial piston variable double pump

Product show and brief introduction

open circuits

Series 1 Sizes 190 to 260 Nominal pressure 35MPa Maxmum pressure 40MPa

Features

- Variable pump with two axial piston rotary groups in swashplate design for use in open circuit hydrostatic drives
- For use in mobile and stationary applications
- The pump consists of proven components from the A11VO(E9011) varialbe pumps
- The pump operates under selt-priming condition, with tank pressurisation or with charge pump
- A wide variety of controls are available
- Setting of the constant power control is possible viaexternal adjustments, even when the unit is operating (only with power control)
- The pump is available with a through drive to mount a gear pump or a second axial piston pump
- Output flow is proportional to drive speed and pump displacement and is steplessly variable between maximum and zero displacement

Model Code

A20V	L	о	190	LRDU2	/10	R	-N	Z	D	24	N00
Axial piston unit	Charge pump	Operation	Size	Control unit	series	Driection of rotation	Seals	Drive shaft	Mounting flange	Service line ports	Through drive
A20V: swashplate design, variable (back to back- design)	No code: without charge pump L: with charge pump	O: double pump, open circuit	190 260	see E9011 (A11VO)	series	(Viewed	N: NBR(nitril- caoutchouc), shaft seal ring in FKM (fluor- caoutchouc) V: FKM (fluor- caoutchouc)	See below	D: SAE J744 -4 hole G: To fit flywheel housing (conformin to SAE J617) of internal combustion engine (details on request)	Two service line ports and one suction port at side, opposite (fastening thread metric)	Without boost pump, without through drive

Drive shafts

Size	190	260	
Splined shaft DIN 5480			Z
Splined shaft ANSI B92.1a-1976			Т

Technical Data

• Table of values (theoretical values, without efficiency and tolerances; values rounded)

Size						
		with	n charge pump	190	260	
Displacement (per rotary group)		Vg max	mL/r	192.7	260	
		Vg min	mL/r	0	0	
Speed						
	at Vg max ¹)	Nmax	rpm	2500 ²⁾	2300 ²⁾	
	at Vg≤Vg max ³)	Nmax	rpm	2500	2300	
Flow	at n_{max} and $V_{g max}$	q v max	L/min	2×482	2×598	
Power,					<u> </u>	
at q _{vmax} and $\triangle P$ =350bar		P _{max}	kW	562	698	
Torque,	, at V _{g max}				2007	
	at long-term ($ riangle$ P=350bar)	Tmax	Nm	2147	2897	
	max.perm,short term ($\triangle P=400bar$)	T _{max}	Nm	2454	3310	
Moment of inertia(of the rotating parts)		J	Kgm ²	0.0604	0.0912	
Mass approx.		M.	Kg			

1. The values are quoted for an absolute pressure (Pabs) of 1 bar at suction port S and mineral operating fluid.

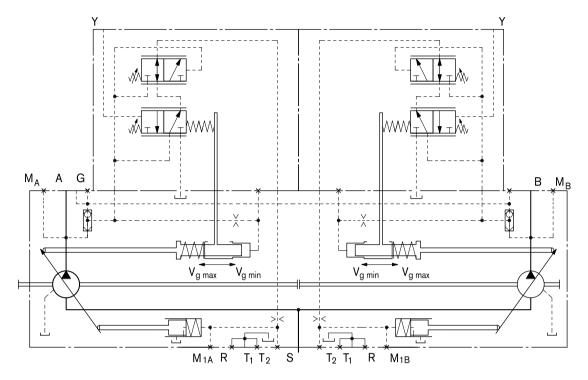
2 The values are quoted for an absolute pressure (Pabs) of at least 0.8 bar at suction port S and mineral operating fluid.

3. The values are quoted for $V_g - V_{g max}$ or increase of the input pressure Pabs at suction port S.



Control Devices

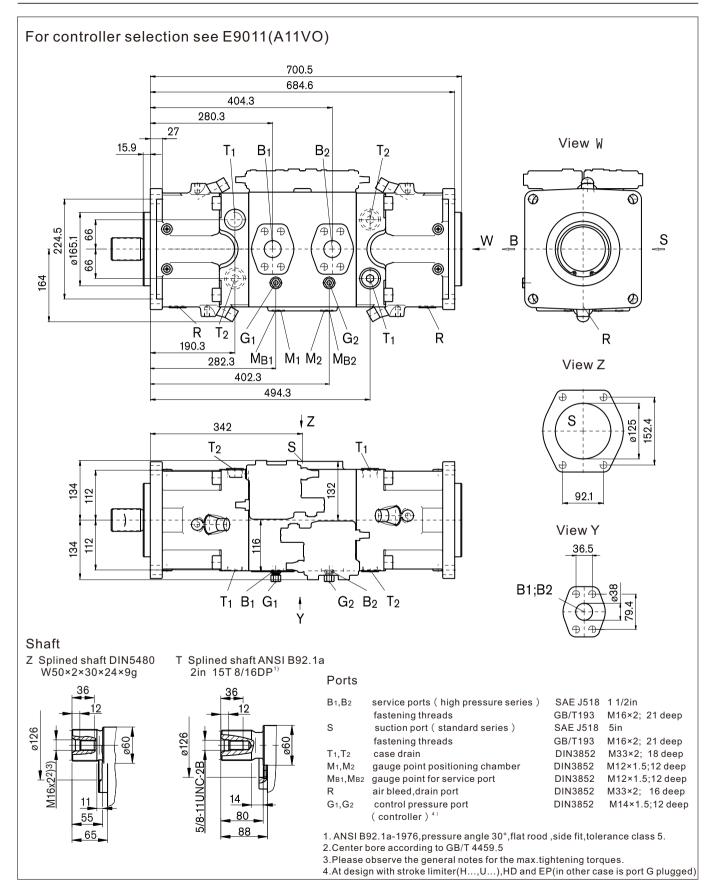
Example circuit diagram HD1D



Further technical datas as soon as control devices , see E9011(A11VO)

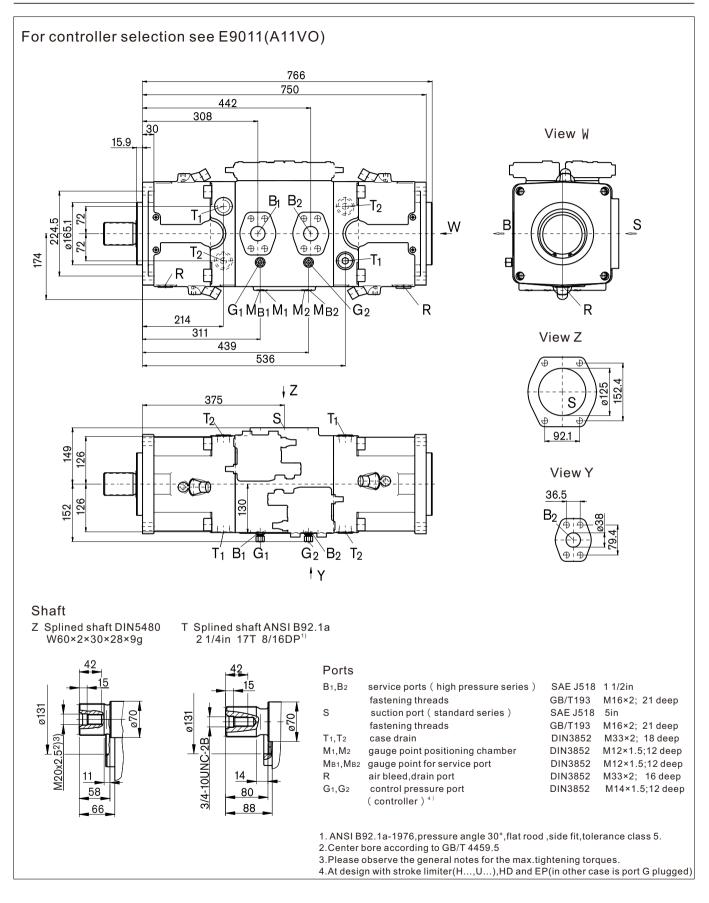
EThan

Installation dimensions Size 190(with inpeller)



EThan

Installation dimensions Size 260(with inpeller)





General Notes

- The pump A20VO is designed to be used in open circuits.
- Project planning, assmbly and commissioning of the pump require the invovement of trained personnel.
- The working and functional ports are only designed to accommadate hydraulic piping.
- There is a danger of burns from the pump and especially the solenoids during and shortly after operation. Suitable safety precautions, e.g. protective clothing plan.
- The characteristic curve may shift depending on the operating status (operating pressure, fluid temperature) of the pump.
- The data and information contained herein must be adhered to.