

# IFP A10VSO PISTON PUMPS OPERATING SPECIFICATIONS



## Application Guidelines

### SHAFT ALIGNMENT:

A10VSO units are designed for “inline drive” with a flexible coupling.  
Side loading of shaft is possible contact factory for applications other than direct drive.

### FILLING PUMP CASING:

Before operating fill pump casing with clean system fluid through upper most drain port. Drain line hose and piping must be installed in such a way as that the case is always full of oil during operation  
(Note: Maximum case pressure 5 PSI / .5 BAR)

### STARTING:

During initial starting it may be necessary to bleed air from outlet. IFP ABT20S air bleed valves are available for this purpose.

### SYSTEM RELIEF VALVE:

Although the A10VSO series of pumps have compensator controls to limit maximum pressure a system relief adjusted 200 PSI higher than the compensator pressure is recommended for safety considerations.

## A10VSO OPERATING SPECIFICATIONS

Based on using oil at 120 F (49 C) viscosity 150 SUS at 100 F (32 cSt at 38 C) and 0 psi inlet pressure

IFP MODEL SERIES	DISPLACEMENT in <sup>3</sup> /rev (cm <sup>3</sup> /rev)	DELIVERY GPM (LPM)		MAX. SPEED RPM	MAXIMUM PRESSURE PSI (BAR)		WEIGHT LBS (KG)
		1800 RPM	MAX. SPEED		OPERATING	PEAK	
IFP A10VSO-18	1.10 (18)	8.4 (32)	15.5 (59)	3300	4000 (280)	5100 (350)	21 (12)
IFP A10VSO-28	1.71 (28)	13.2 (50)	22.2 (84)	3000	4000 (280)	5100 (350)	33 (15)
IFP A10VSO-45	2.75 (45)	21.1 (81)	30.9 (117)	2600	4000 (280)	5100 (350)	46 (21)
IFP A10VSO-71	4.33 (45)	33.5 (127)	41.2 (156)	2200	4000 (280)	5100 (350)	72 (33)
IFP A10VSO-100	8.10 (100)	47.5 (180)	52.8 (200)	2000	4000 (280)	5100 (350)	99 (45)
IFP A10VSO-140	8.54 (140)	66.5 (252)	66.5 (252)	1800	4000 (280)	5100 (350)	132 (60)

SOUND LEVEL PER ISO 4412			NOISE dB(A)	
MODEL	RPM	PSI	CUT-OFF	FULL DIPL.
IFP A10VSO-18	1800	2500	64 dB	65 dB
		4000		67 dB
IFP A10VSO-28	1800	2500	67 dB	69 dB
		4000		68 dB
IFP A10VSO-45	1800	2500	70 dB	72.5 dB
		4000		71.5 dB
IFP A10VSO-71	1800	2500	69 dB	74.5 dB
		4000		72.5 dB
IFP A10VSO-100	1800	2500	71 dB	75 dB
		4000		77 dB
IFP A10VSO-140	1800	2500	76 dB	82.5 dB
		4000		80.5 dB