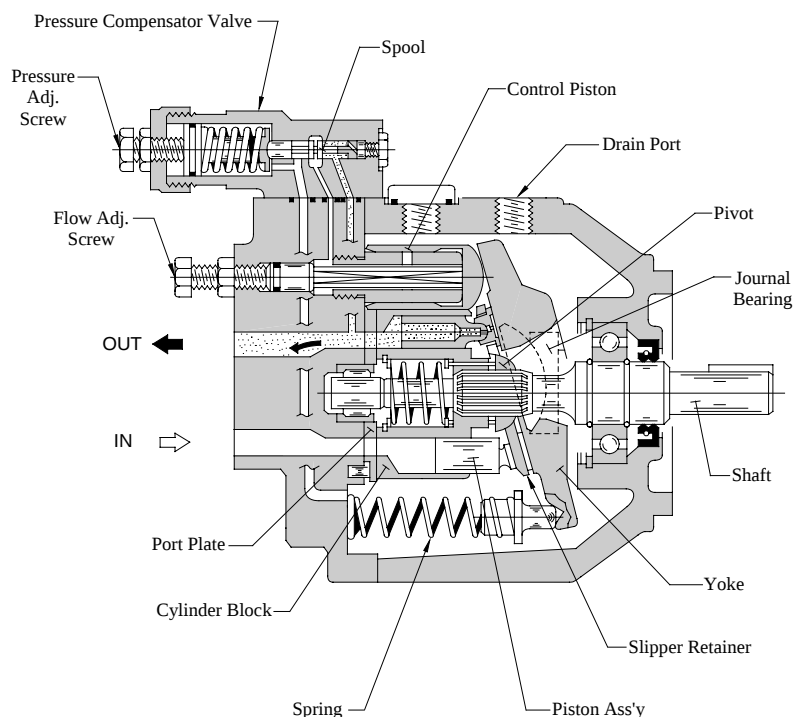
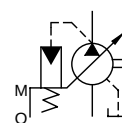


Up to 16 MPa (2320 PSI), 22.2 cm³/rev (1.35 CU.IN./rev)



Graphic Symbol



Features

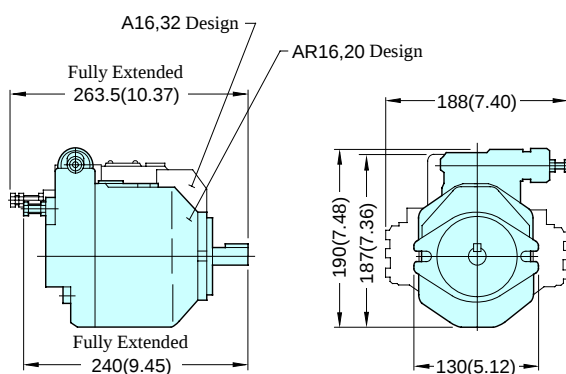
Smaller in Size and Lighter in Mass

As indicated in the dimensional comparison presented below, the AR16 is smaller than the A16 (32 design). Also, the mass of AR16 is substantially lighter than the A16.

Low Noise

The noise level of AR16 has been reduced by 1-2 dB (A) at full flow and full cut-off compared with that of the excellent A16 quiet pump.

[Comparison of "AR16" with "A16"]



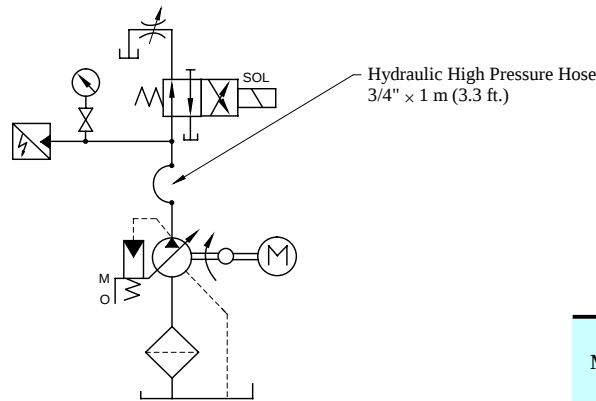
DIMENSIONS IN
MILLIMETRES (INCHES)

Model	Approx. Mass (Flange Mtg.)	Ratio of Mass (AR16/A16)
AR16	9.8 kg (21.6 lbs.)	60 %
A16	16.5 kg (36.4 lbs.)	

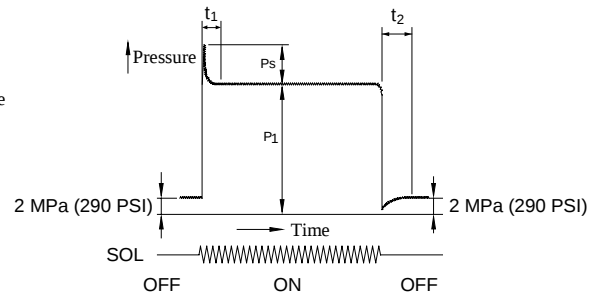
Response Characteristics Change in Accordance with Circuits and Operating Conditions.

Test Circuit and Conditions

Circuit



Result of Measurement



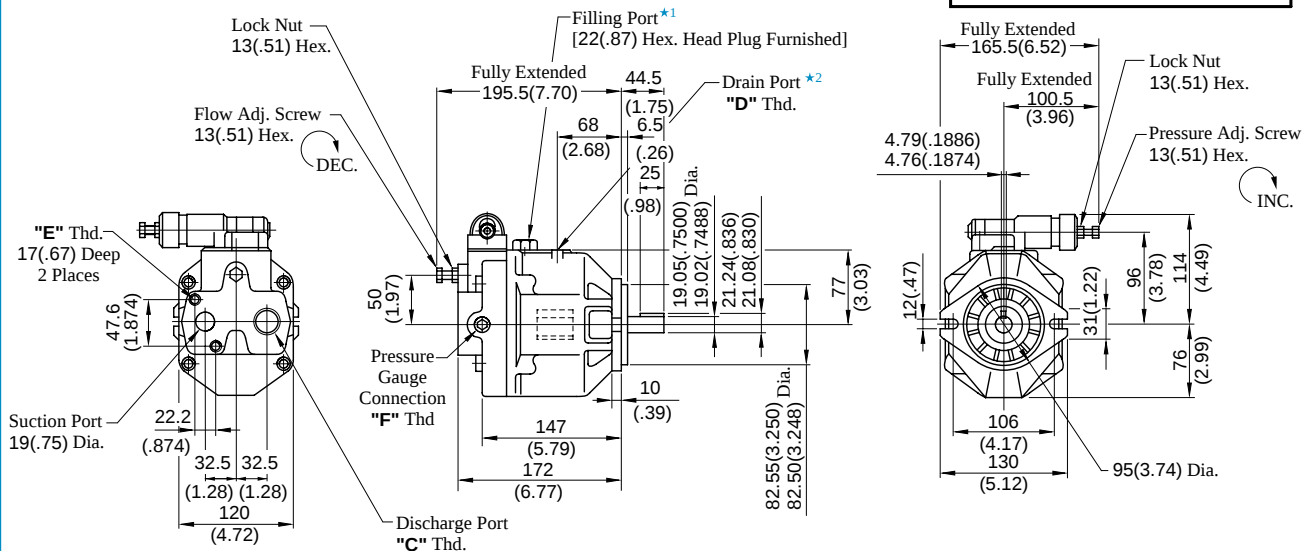
Model	Full Cut-off Pressure P ₁ MPa (PSI)	Response Time ms		Overshoot Pressure MPa (PSI)
		t ₁	t ₂	
AR16	16 (2320)	60	65	5.6 (810)
AR22		70	70	7.3 (1060)

Conditions

Drive Speed : 1500 r/min
Hydraulic Fluid : ISO VG32 oil
Oil Temperature : 50 °C (122 °F)
Viscosity : 20 mm²/s (100 SSU)

AR16-FR01*-20/2080/2090
AR22-FR01*-20/2080/2090

DIMENSIONS IN
MILLIMETRES (INCHES)

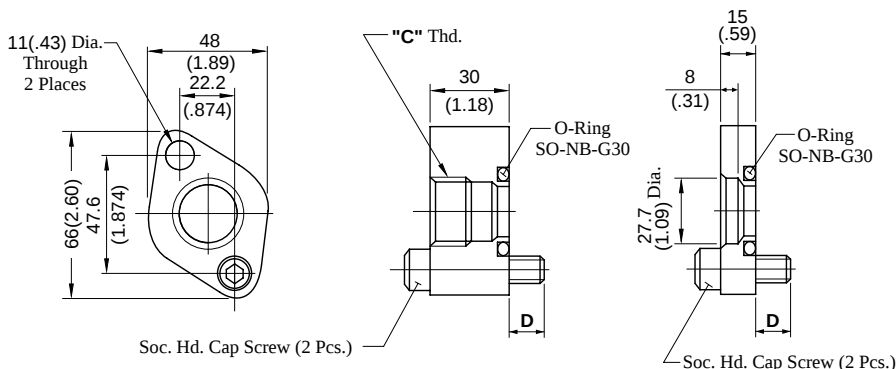


- ★1. Install the pump so that the "Filling port" is at the top.
- ★2. A screw-in torque of fitting is 40 - 50 Nm (354-443 IN.lbs.).
Do not apply bending and thrust torque to the fitting.

Model Numbers	"C" Thd.	"D" Thd.	"E" Thd.	"F" Thd.
AR16/AR22-FR01*-20	Rc 3/4	Rc 3/8	M10	Rc 1/4
AR16/AR22-FR01*-2080	3/4 BSP.F	3/8 BSP.F		1/4 BSP.Tr
AR16/AR22-FR01*-2090	3/4 NPT	3/8 NPT	3/8-16 UNC	1/4 NPT

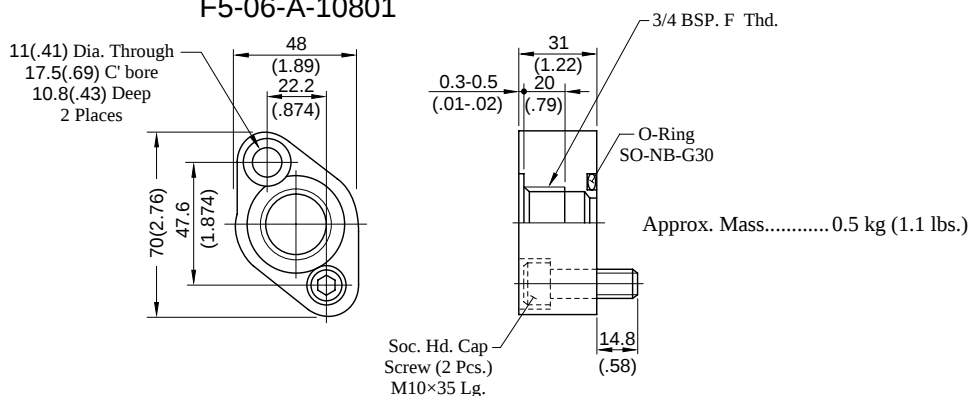
■ Pipe Flange Kit for Suction Port

F5-06-A-1021/10901 F5-06-B-1021/10901



Kit Numbers	"C" Thd.	D mm (IN.)	Soc. Hd. Cap Screw	Approx. Mass kg (lbs.)
F5-06-A-1021	Rc 3/4	15 (.59)	M10 × 45 Lg.	0.5 (1.1)
F5-06-A-10901	3/4 NPT	14.45 (.57)	3/8-16UNC × 1-3/4 Lg.	
F5-06-B-1021	—	15 (.59)	M10 × 30 Lg.	0.3 (.66)
F5-06-B-10901	—	16.75 (.66)	3/8-16UNC × 1-1/4 Lg.	

F5-06-A-10801



DIMENSIONS IN
MILLIMETRES (INCHES)

■ Mounting Bracket Kits

Mounting bracket available on separate order.

Pump Model Numbers	Mtg. Bracket Kit Numbers	Approx. Mass kg (lbs.)
AR16/AR22-FR01	LP-1A-10	2.2 (4.9)

Note: The mounting bracket kit consists of a mounting bracket, 2 hex. bolts and 2 plain washers.

Mtg. Bracket Kit: LP-1A-10

