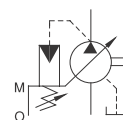


AR Series Variable Displacement Piston Pumps, Pressure Compensator Type



Graphic Symbol



Specifications

Model Numbers	Geometric Displacement cm ³ /rev	Min. Adj. Flow cm ³ /rev	Operating Pressure MPa		Shaft Speed Range r/min		Approx. Mass kg
			Rated	Intermittent★	Max.	Min.	
AR16-FR01 * *-22	15.8	6.0	16		1800	600	11.8
AR22-FR01 * *-22	22.2	8.5					12.5

★ When setting the pressure, make sure the full cut-off pressure never exceeds the maximum intermittent pressure.

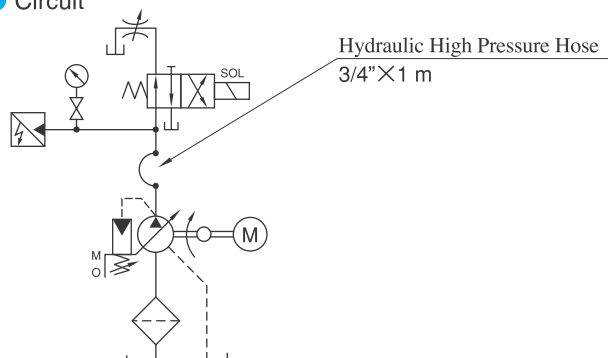
Model Number Designation

AR16	-F	R	01	B	S	-22
Series Number	Mounting	Direction of Rotation	Control Type	Pres. Adj. Range	Port Position	Design Number
AR16 (15.8 cm ³ /rev)	F : Flange Mtg.	[Viewed from Shaft End] R : Clockwise (Normal)	01 : Pressure Compensator Type	B : 1.2~7 C : 2.0~16	None : Axial Port S : Side Port	22
AR22 (22.2 cm ³ /rev)						22

Response Characteristics Change in Accordance with Circuits and Operating Conditions.

Test Circuit Conditions

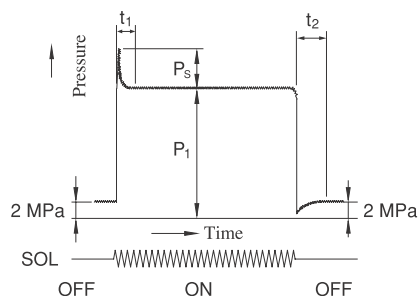
- Circuit



- Conditions

Shaft Speed : 1500 r/min
Hydraulic Fluid : ISO VG32 Oil
Oil Temperature : 40 °C
Viscosity : 32 mm²/s

Result of Measurement

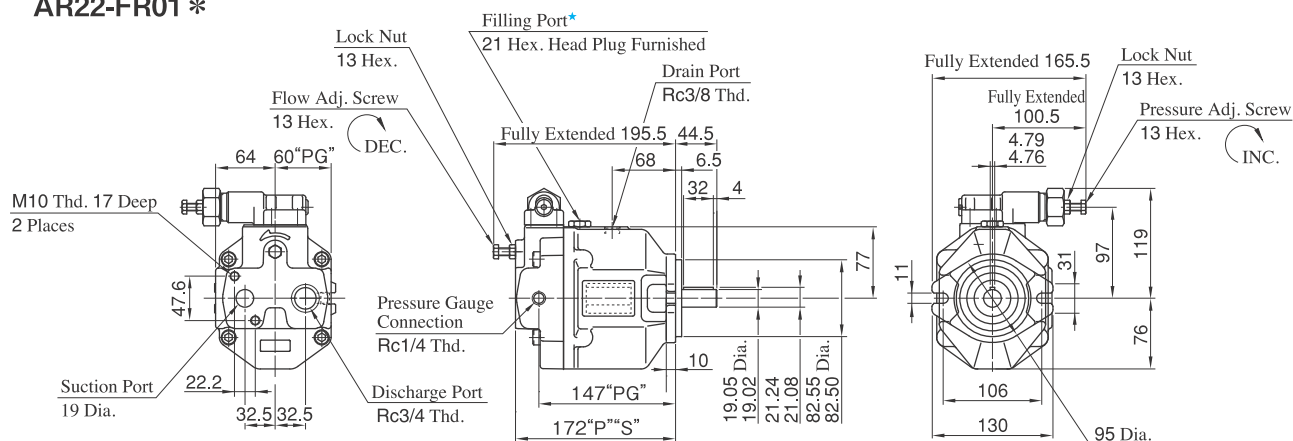


Model	Full Cut-off Pressure P ₁ MPa	Response Time ms		Overshoot Pressure P _s MPa
		t ₁	t ₂	
AR16	16	120	90	3.6
AR22		90	100	5.2

Axial Port Type

AR16-FR01 *

AR22-FR01 *

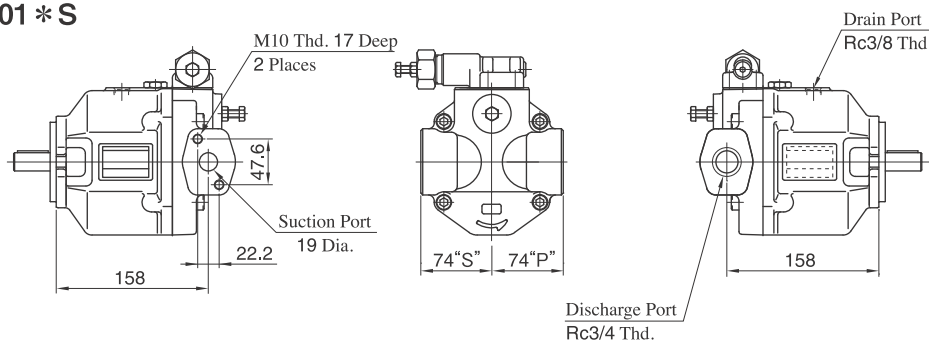


★ Install the pump so that the “Filling Port” is at the top.

Side Port Type

AR16-FR01 * S

AR22-FR01 * S



● For other dimensions, refer to “Axial port Type”.