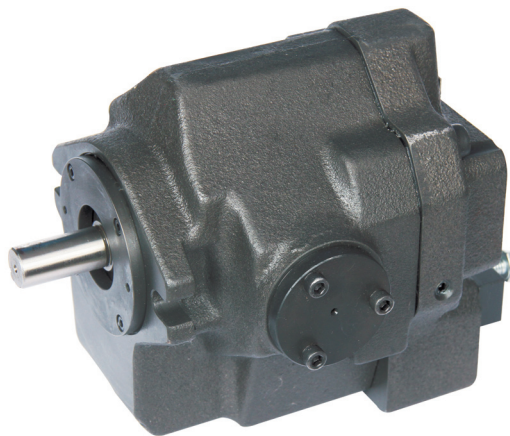


AR Series Variable Displacement Poiston Pumps-Single Pump, Pressure Compensator Type

AR系列单泵、压力补偿控制型

■ JIS油壓圖形符號 JIS oil pressure graphic symbol



■ 參數 Parameters

型號 Model	幾何排量 cm ³ /rev Geometric displacement	最小調節量 cm ³ /rev Minimum regulating flow cm ³ /rev	工作壓力 MPa Working pressure MPa		轉速範圍 r/min Rpm range r/min		質量kg Mass kg
			額定 Rated value	最高 * Maximum	最高 Maximum	最低 Minimum	
AR16-FR01※-20	15.8	6.0	16		1800	600	9.8
AR22-FR01※-20	22.2	8.5					

- ★ 1. 壓力設定時必須保證全截流壓力不超過允許的最高工作壓力。
When setting the pressure, the full closure pressure must be ensured to be less than the allowable maximum working pressure.

■ 型号说明 Type instruction

AR16	-F	R	01	B	-20
系列號 Series no.	安裝型式 Installation type	旋轉方向 Rotation direction	控制型式 Control type	壓力調節範圍 MPa Pressure regulating range MPa	設計號 Design no.
AR16 (15.8cm ³ /rev)	F : 法蘭安裝型 F: flange installation type	[從軸伸端看] [see from shaft stretch end] *1	01 : 壓力補償控制型 01: pressure compensation control type	B : 1.2 ~ 7 C : 2.0 ~ 16	20
AR16 (22.2cm ³ /rev)		R : 順時針方向(標準) R: Clockwise (standard)			20

- ★ 1. 可提供逆時針方向旋轉的泵，詳情請和我們聯系。
Pumps of rotating clockwise can be provided and please contact us for details.

■ 管法蘭組件 Pipe flange assembly

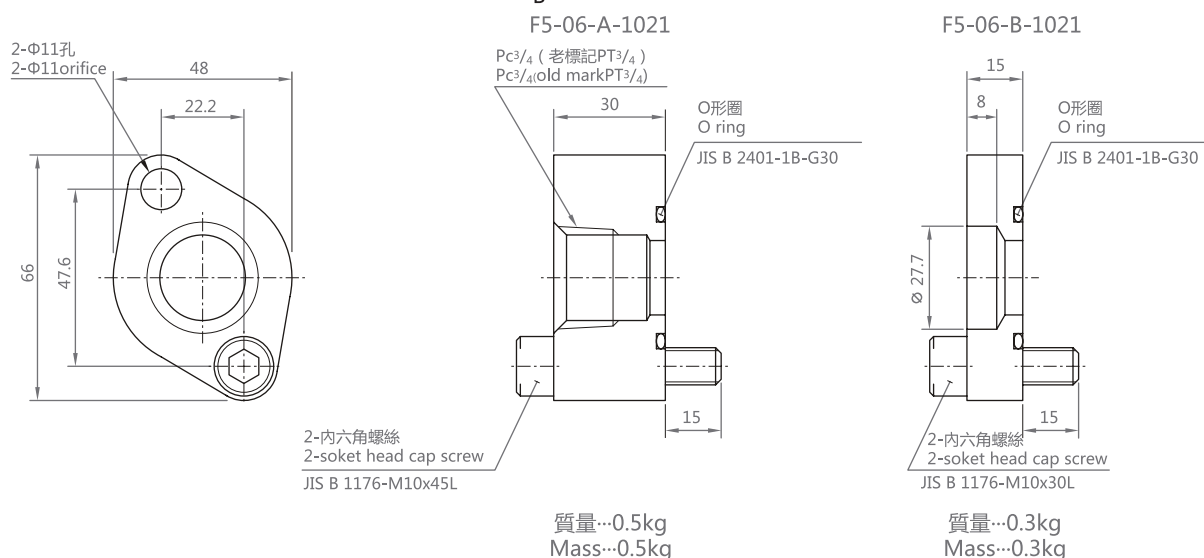
本泵不含管法蘭組件，訂購時請注明下表中的組件號。
This pump doesn't include the pipe flange assembly and please specify the assembly number in the following table when subscribing.

泵型號 Pump Model	接口名稱 Interface name	管法蘭組件號 Pipe flange assembly number	
		Rc (老PT) 螺紋型 Re (old pt) thread type	插焊型 Insert welding type
AR16-FR01 AR22-FR01	吸入口 Suction inlet	F5-06-A-1021	F5-06-B-1021
	輸出口 Output port	—— *	—— *

- ★ 輸出口不用管法蘭，直接配管。Output port doesn't use the pipe flange and direct piping is done.

用于吸入口的管法蘭組件：F5-06- $\frac{A}{B}$ -1021

Pipe flange assembly used for the suction inlet : F5-06- $\frac{A}{B}$ -1021



■ 安裝支架組件 Installing the bracket assembly

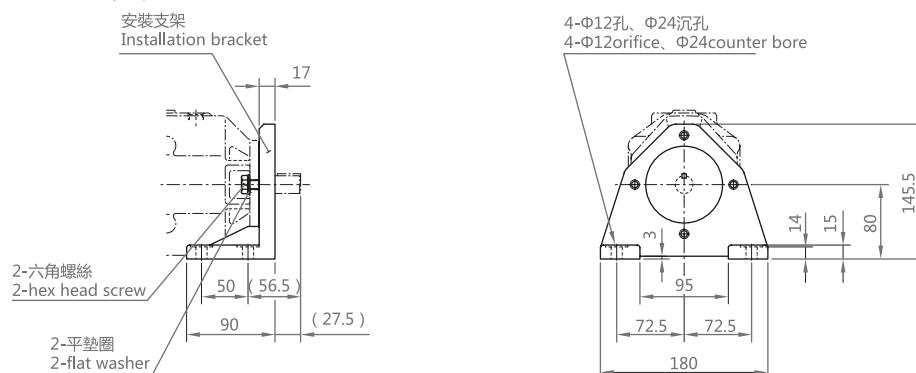
本泵作為底座安裝使用時，請注明下表中的安裝支架組件號訂購。

When this pump is installed on the base, please specify the installation bracket assembly number in the following table when subscribing.

泵型號 Pump Model	安裝支架組件號 Installation bracket assembly number	包裝零件 Included parts	質量 Kg Mass Kg
AR16-FR01 AR22-FR01	LP-1A-10	安裝支架：190-PK210616-9(1個) 六角螺釘：JIS B 1180-M10 x 25L(2個) 平墊圈：JIS B 1256-10 x21 x 2(2個) Installation bracket: 190-pk210616-9 (1) Hex head screw: JIS b 1180-m10×25L (2) Flat washer: JIS b 1256-10×21×2 (2)	2.2

安裝支架組件：LP-1A-10

Installation bracket assembly: Ip-1a-10



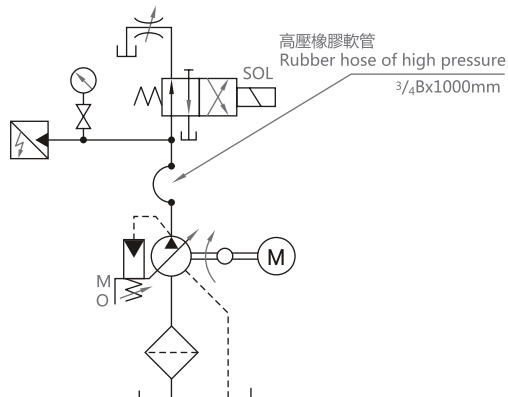
■ 響應特征 Response properties

響應特性隨回路和工作條件而異，下示測試實例：

Response properties differ with the return and working condition and the test example is as follows:

■ 測試回路和條件 Test return and conditions

回路
Return



條件

轉速：1500r/min

油液：ISO VG32相當油

油温：50℃（粘度20mm²/s）

Conditions

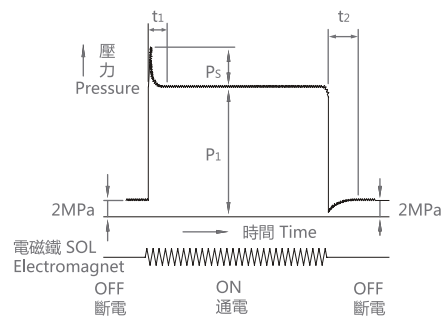
Revolution speed: 1500r/min

Oil: ISO VG 32 equivalent oil

Oil temperature: 50°C

(viscosity 20mm²/s)

■ 測試結果 Test result



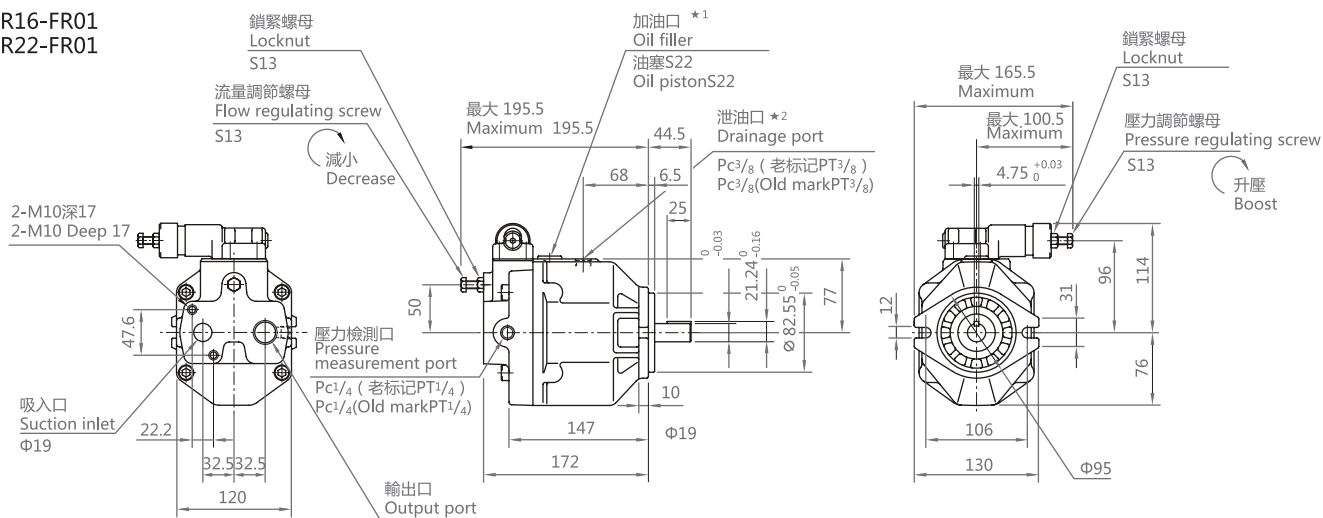
型號 Model	全截流壓力P ₁ MPa Full closure pressure P ₁ MPa	響應時間 Ms Response time Ms		上沖壓力P ₁ MPa Uprush pressure P ₁ MPa
		t ₁	t ₂	
AR16	16	60	65	5.6
AR22		70	70	7.3

軸向接口型

The axial interface type

AR16-FR01

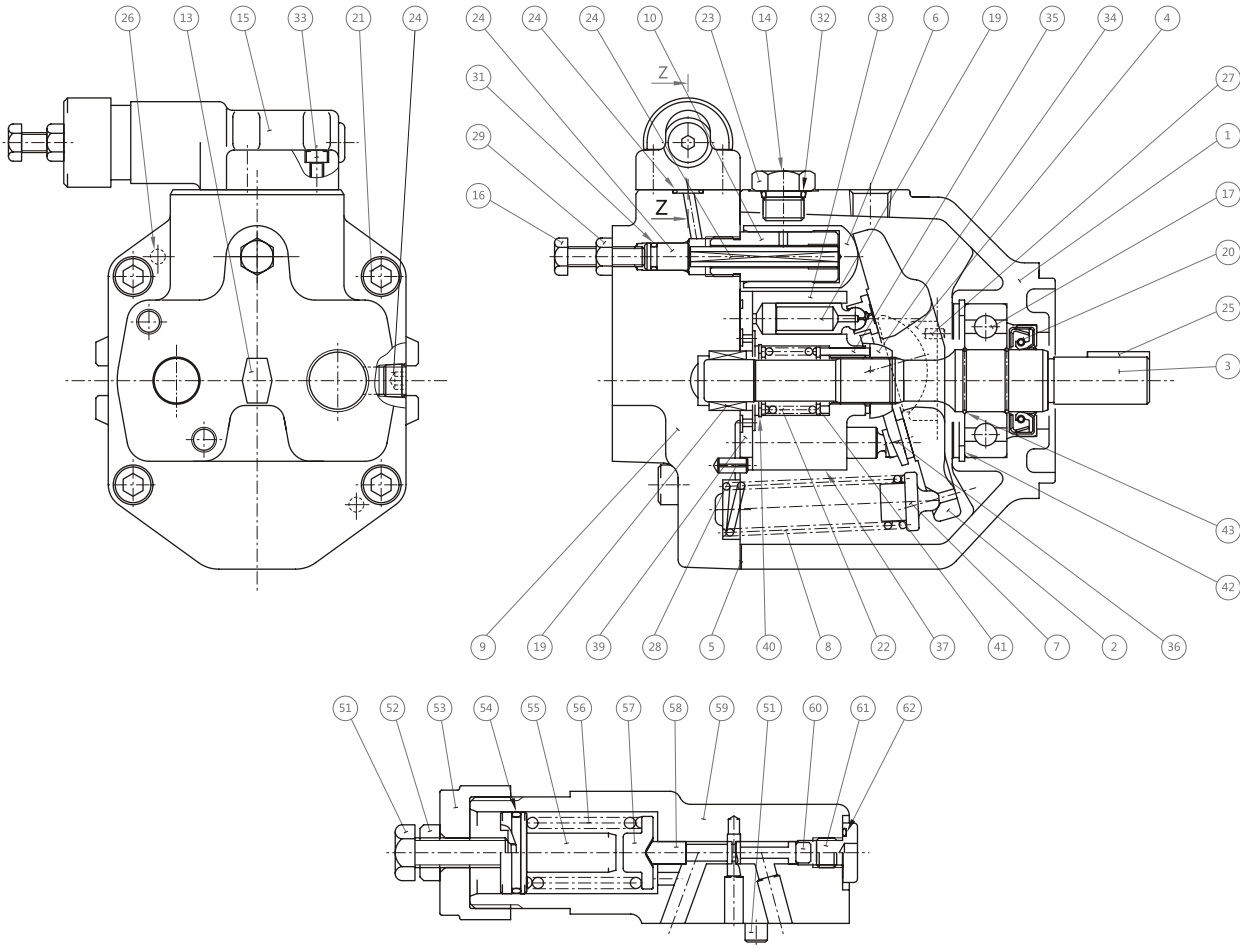
AR22-FR01



- ★ 1. 安裝泵時，加油口位置應向上。
- ★ 2. 往泄油口旋入接頭的扭矩不要超過40-50Nm。
- ★ 1. The oil filler should face upward when installing pumps.
- ★ 2. Torque that the connector is screwed in the drainage port should not exceed 40-50nm.

■ 密封件和軸承表 Sealing element and bearing meter

AR16-FR01
AR22-FR01



Z-Z剖面詳圖
Z-Zsectional detail drawing

序號 No.	零件名稱 Name of part	零件號 Number of part		數量 Amount
		AR16-FR01	AR22-FR01	
5	密封墊 Sealing gasket	1302-PK312891-5		1
17	軸承 Bearing	6305		1
19	軸承 Bearing	HMK 1715 V2	Z30-1303-PK410300-8	1
20	油封 Oil seal	TCN 25451I		1
30	O形圈 O-ring	JIS B 2401-1B-P9		3
31	O形圈 O-ring	JIS B 2401-1A-P8		1
32	O形圈 O-ring	JIS B 2401-1B-P14		1
54	O形圈 O-ring	AS 568-018(NBR , Hs70)		1
62	O形圈 O-ring	JIS B 2401-1B-P10		1