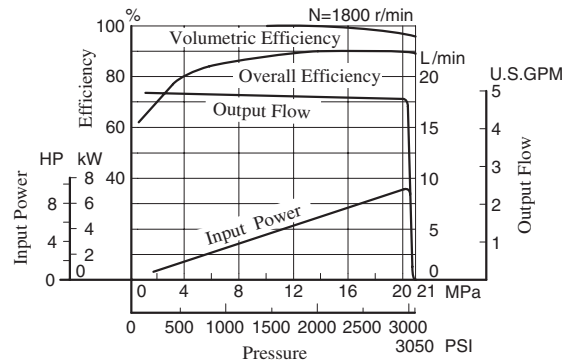
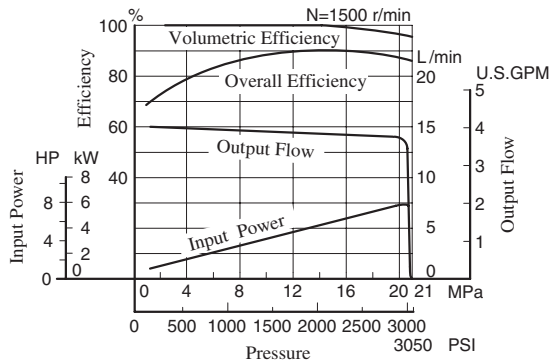
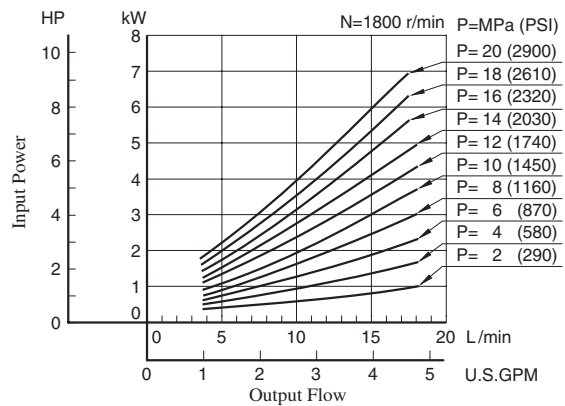
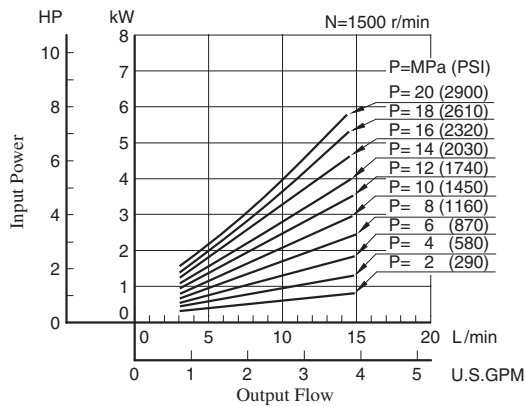


Typical Performance Characteristics of Type "A10" at Viscosity 20 mm²/s (100 SSU) [ISO VG32 Oils, 50°C (122°F)]

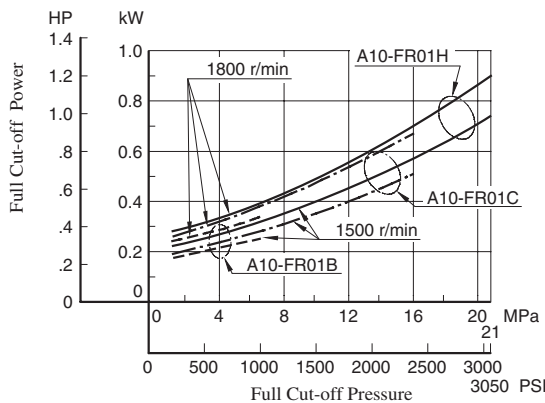
■ Performance Characteristic Curve



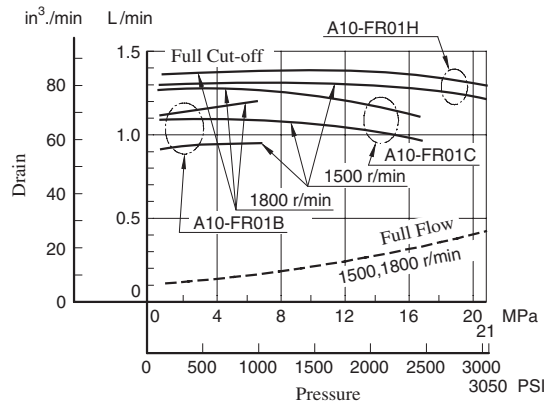
■ Input Power



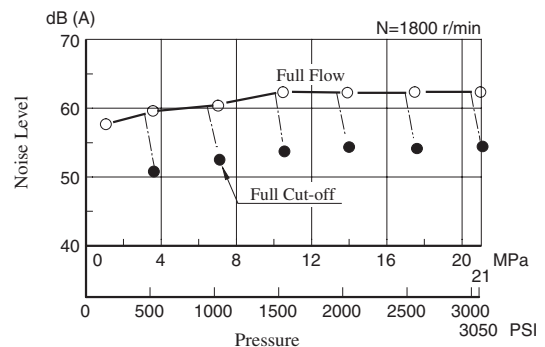
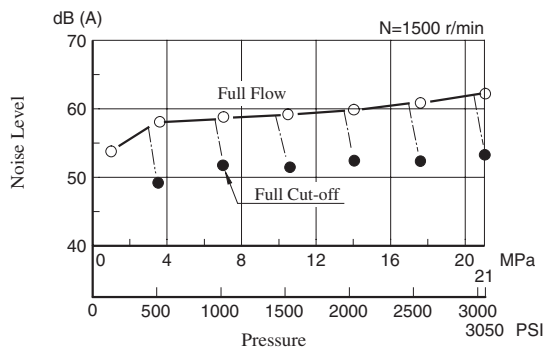
■ Full Cut-off Power



■ Drain



■ Noise Level [One metre (3.3 ft.) horizontally away from pump head cover]

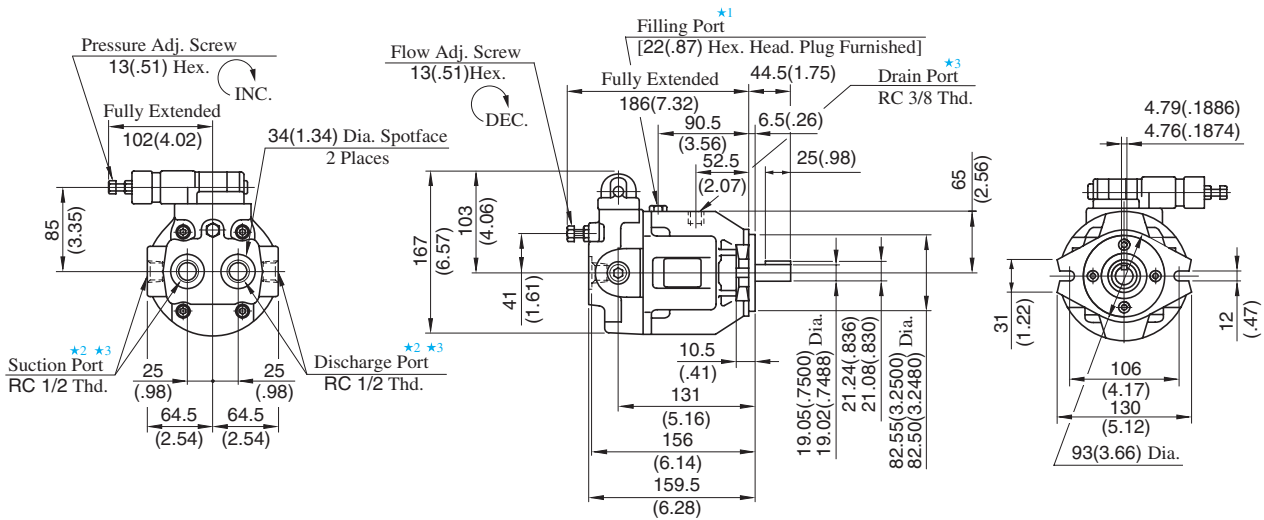


Flange Mtg.

Pressure Adjustment Range "C" & "H"

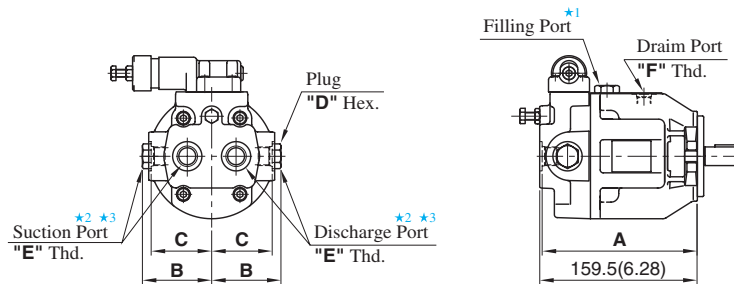
DIMENSIONS IN
MILLIMETRES (INCHES)

● Japanese Standard "JIS": A10-FR01-C/H-12



● European Design Standard: A10-FR01-C/H-1280

● N. American Design Standard: A10-FR01-C/H-12950

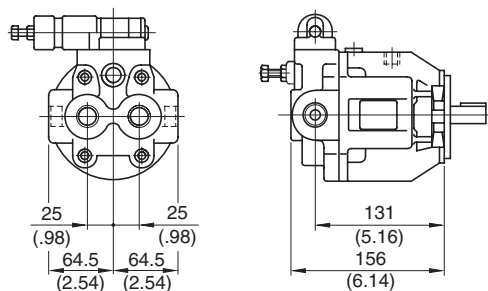


Model Numbers	Dimensions mm(Inches)				Thread Size	
	A	B	C	D	E	F
A10-FR01C/H-1280	159 (6.25)	72 (2.83)	64 (2.52)	27 (1.06)	1/2 BSP. F	3/8 BSP. F
A10-FR01C/H-12950	157 (6.18)	71 (2.80)	62 (2.44)	22 (.87)	SAE #8	SAE #6

● For other dimensions, refer to Japanese Standard "JIS".

Pressure Adjustment Range "B"

● Japanese Standard "JIS": A10-FR01-B-12



● For other dimensions, refer to above Pressure Adj. Range "C" & "H".

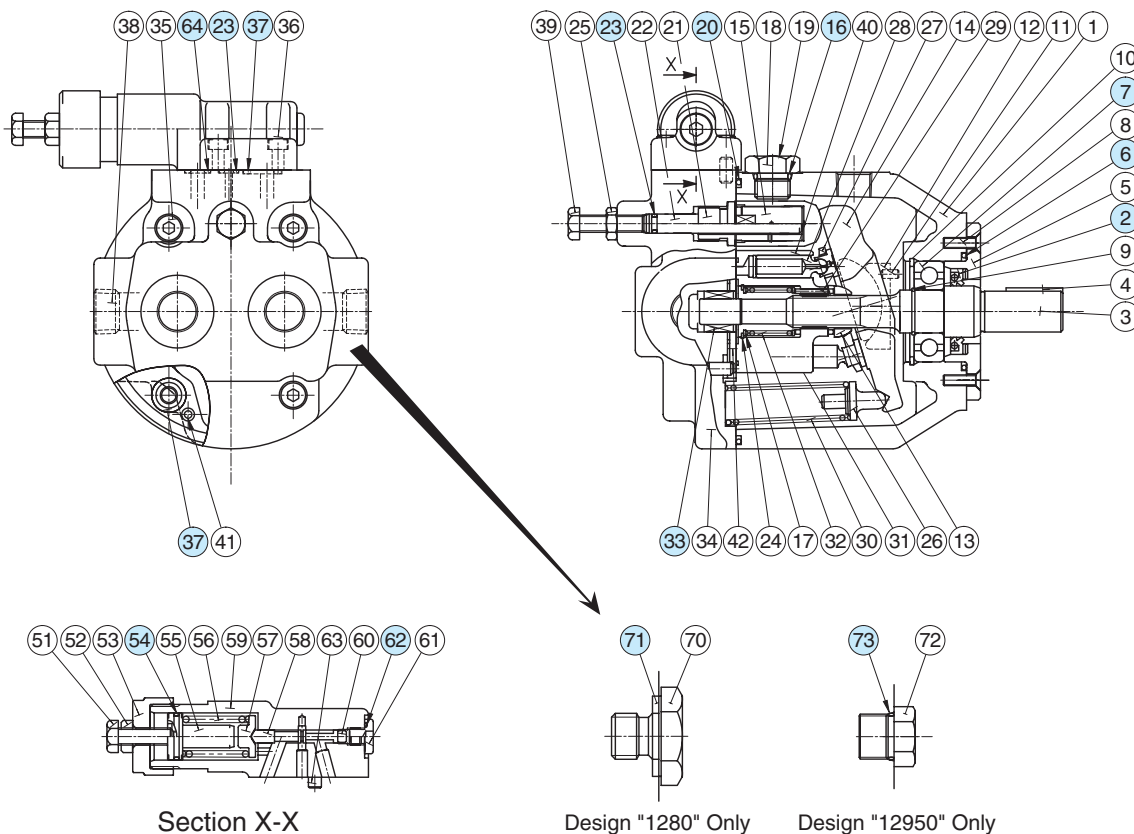
- ★ 1. Install the pump so that the "Filling Port" is at the top.
- ★ 2. Use either port of two suction and discharge ports at your option. Keep the remaining ports plugged.
- ★ 3. As the tightening torques of suction, discharge and drain port fittings, conform to the below.

Model Numbers	Tightening Torque Nm(IN. lbs.)	
	Suction Port & Discharge Port	Drain Port
A10-FR01B/C/H-12	65-75 (575-664)	40-50 (354-443)
A10-FR01C/H-1280	56-62 (496-549)	33-36 (292-319)
A10-FR01C/H-12950	47-51 (363-451)	40-50 (354-443)



Spare Parts List

A10-FR01-B-12
A10-FR01C/H-12/1280/12950



List of Seals & Bearings

Item	Name of Parts	Part Numbers	Qty.		Remarks
			Pres. Adj. Range		
			B	C & H	
2 [*]	Oil Seal	TCN24408Y	1	1	
6 [*]	O-Ring	SO-NA-G50	1	1	
7	Bearing	6204	1	1	
16 [*]	O-Ring	SO-NB-P14	1	1	
20 [*]	O-Ring	SO-NB-G120	1	1	
23 [*]	O-Ring	SO-NB-P6	2	2	
33	Bearing	HMK1215	1	1	
37 [*]	O-Ring	SO-NB-P12	6	5	
54 [*]	O-Ring	SO-NA-A018	1	1	
62 [*]	O-Ring	SO-NB-P10	1	1	
64 [*]	O-Ring	SO-NB-P9	—	1	
71	Bonded Seal	KP-C-04	—	2	Only for "1280" Design, Not included in Seal Kit
73	O-Ring	AS568-908 (NBR, Hs90)	—	2	Only for "12950" Design, Not included in Seal Kit

★ When ordering seals, please specify the seal kit number from the table below.

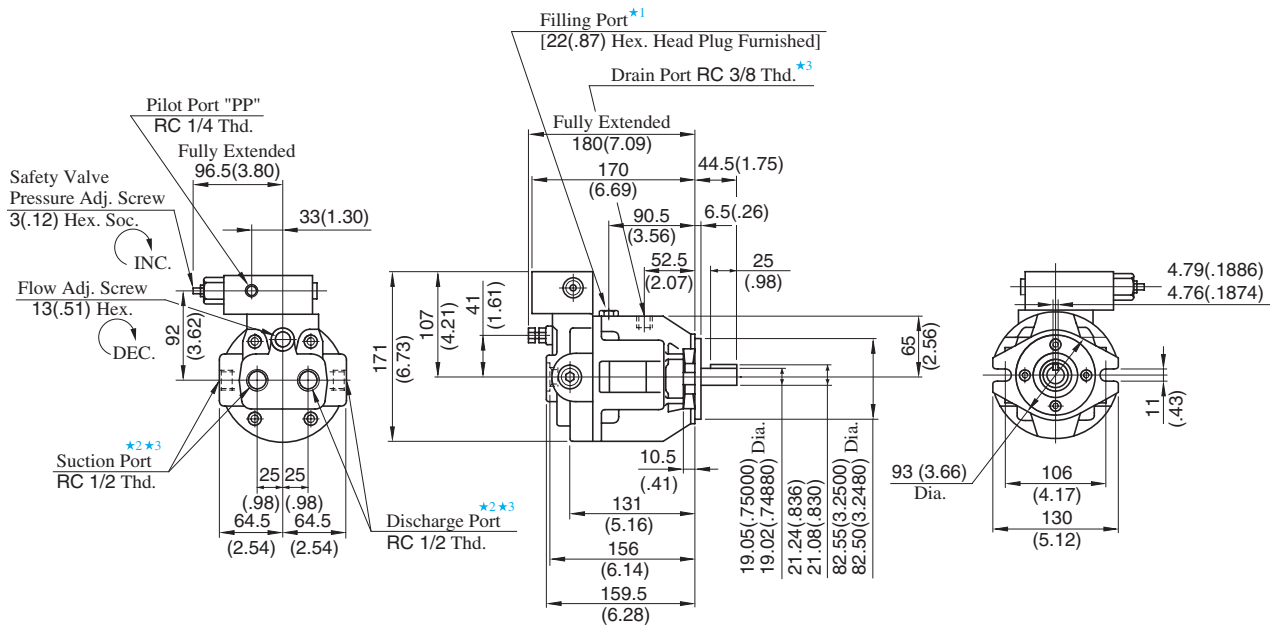
List of Seal Kits

Pump Model Numbers	Seal Kit Numbers
A10-FR01B-12	KS-A10-01B-12
A10-FR01C-12/1280/12950	KS-A10-01H-12
A10-FR01H-12/1280/12950	

Flange Mtg.

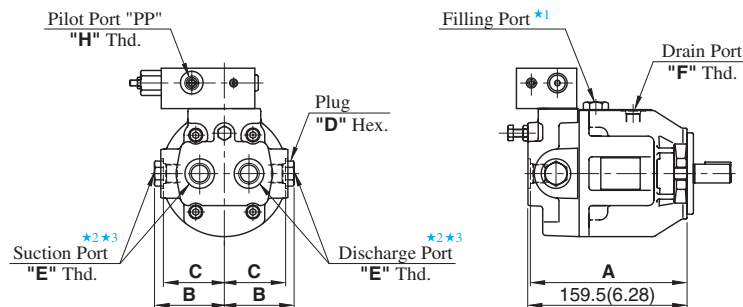
● Japanese Standard "JIS" : A10-FR07-12

**DIMENSIONS IN
MILLIMETRES (INCHES)**



● European Design Standard : A10-FR07-1280

● N. American Design Standard : A10-FR07-12950



Model Numbers	Dimensions mm (IN.)				Thread Size		
	A	B	C	D	E	F	h
A10-FR07-1280	159 (6.26)	72 (2.83)	64 (2.52)	22 (.87)	1/2 BSP. F	3/8 BSP. F	1/4 BSP. Tr
A10-FR07-12950	157 (6.18)	71 (2.80)	62 (2.44)	27 (1.06)	SAE #8	SAE #6	SAE #4

● For other dimensions, refer to Japanese Standard "JIS".

- ★1. Install the pump so that the "Filling Port" is at the top.
- ★2. Use either port of two suction and discharge ports at your option. Keep the remaining ports plugged.
- ★3. As the tightening torques of suction, discharge and drain port fittings, conform to the below.

Model Numbers	Tightening Torque Nm (IN. lbs.)	
	Suction Port & Discharge Port	Drain Port
A70-FR07-12	65-75 (575-664)	40-50 (354-443)
A70-FR07-1280	56-62 (496-549)	33-36 (292-319)
A70-FR07-12950	47-51 (416-451)	40-50 (354-443)