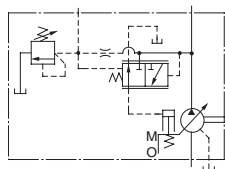
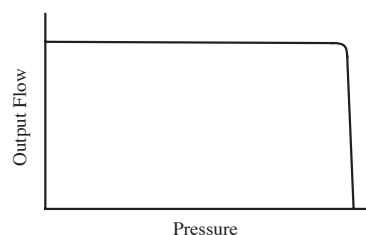


Series Variable Displacement Piston Pumps, Pilot Pressure Control Type Pressure Compensator

Graphic Symbol



■ Performance Characteristics



■ Specifications

Model Numbers	Geometric Displacement cm ³ /rev	Minimum Adj. Flow cm ³ /rev	Operating Pressure MPa		Minimum Adj. Pres. MPa	Shaft Speed Range r/min		Approx. Mass kg	
			Rated ^{★2}	Intermittent ^{★1}		Max.	Min.	Flange Mtg.	Foot Mtg.
A10-FR07-12	10.0	2	16	21	2.0	1800	600	8.5	10.7
A16-*R-07-*K-32	15.8	4	16	21	1.2	1800	600	21	23.2
A22-*R-07-*K-32	22.2	6	16	16	1.2	1800	600	21	23.2
A37-*R-07-*K-32	36.9	10	16	21	1.2	1800	600	29	33.3
A56-*R-07-*K-32	56.2	12	16	21	1.2	1800	600	36	40.3
A70-*R07S-60	70.0	36	25	25	2	1800	600	60.3	72.3
A90-*R07S-60	91.0	56	25	25	2	1800	600	77.5	98
A145-*R07S-60	145	83	25	25	2	1800	600	94	119

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

★2. When operating the pump exceeding the rated pressure, operating conditions are restricted.

Refer to page 31 for the details.

■ Model Number Designation

A16	-F	-R	-07	-S	-K	-32
Series Number	Mounting	Direction of Rotation	Control Type	Port Position	Shaft Extension	Design Number
A16 (15.8 cm ³ /rev)	F: Flange Mtg. L: Foot Mtg.	(Viewed from) Shaft End R: Clockwise ^{★1} (Normal)	07: Pilot Pressure Control Type Pressure Compensator	None: Axial Port S: Side Port	K: Keyed Shaft	32
A22 (22.2 cm ³ /rev)						32
A37 (36.9 cm ³ /rev)						32
A56 (56.2 cm ³ /rev)						32

A70	-F	R	07	S	-60
Series Number	Mounting	Direction of Rotation	Control Type	Port Position	Design Number
A10 (10.0 cm ³ /rev)	F: Flange Mtg. ^{★2}	(Viewed from) Shaft End R: Clockwise ^{★1} (Normal)	07: Pilot Pressure Control Type Pressure Compensator	—	12
A70 (70.0 cm ³ /rev)	F: Flange Mtg.			S: Side Port	60
A90 (91.0 cm ³ /rev)	L: Foot Mtg.				60
A145 (145 cm ³ /rev)	L: Foot Mtg.				60

★1. Available to supply pump with anti-clockwise rotation. Consult Yuken for details.

★2. When A10 pump is used as the foot Mtg., order the Mtg. Bracket kit shown below separately.

Refer to page 20 for dimensions of the Mtg. bracket.

★3. Please inquire for A220 separately.

Mtg. Bracket Kit Numbers	Approx. Mass kg
LP-1A-10	2.2

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

Performance Characteristics

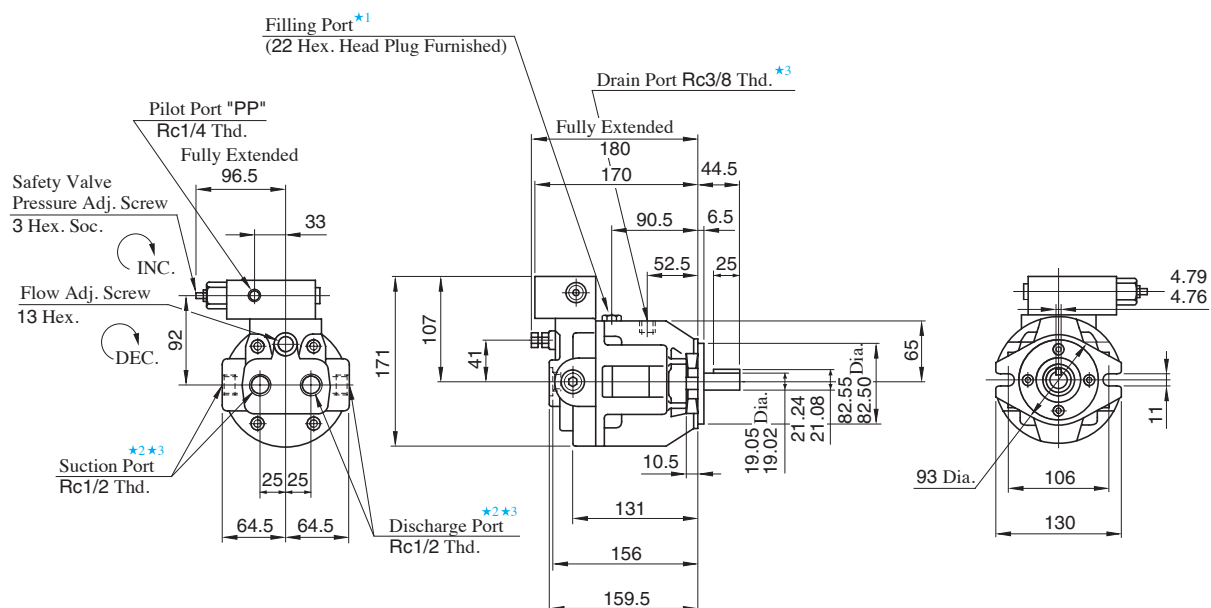
For performance characteristics, refer to models of pressure compensator type on page 34 to 42.

Pipe Flange Kit

For pipe flange, refer to form of pressure compensator type on page 32.

Flange Mtg. : A10-FR07

**DIMENSIONS IN
MILLIMETRES**



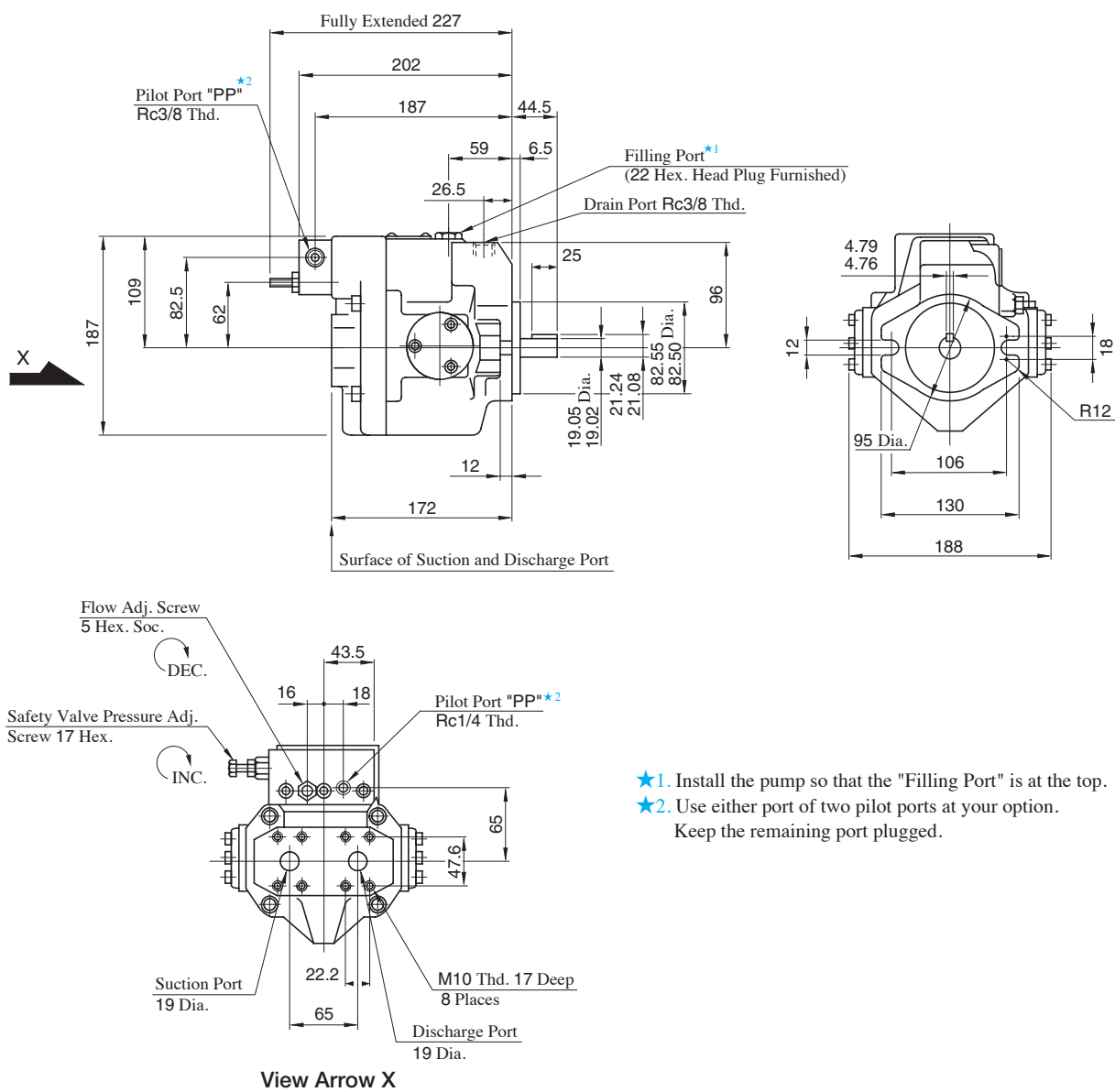
- ★1. Install the pump so that the "Filling Port" is at the top.
- ★2. Use either port of two suction and discharge ports at your option. Keep the remaining ports plugged.
- ★3. As the tightening torques of suction, discharge and drain port fittings, conform to the below.

Model Numbers	Tightening Torque Nm	
	Suction Port & Discharge Port	Drain Port
A10-FR07-12	65 - 75	40 - 50

Axial Port Type

Flange Mtg. : A16-F-R-07-K
A22-F-R-07-K

DIMENSIONS IN
MILLIMETRES



- ★1. Install the pump so that the "Filling Port" is at the top.
- ★2. Use either port of two pilot ports at your option. Keep the remaining port plugged.

● Axial Port Type

Port mounting dimensions are the same as those of pressure compensator model. Refer to page 44 for port mounting dimensions.

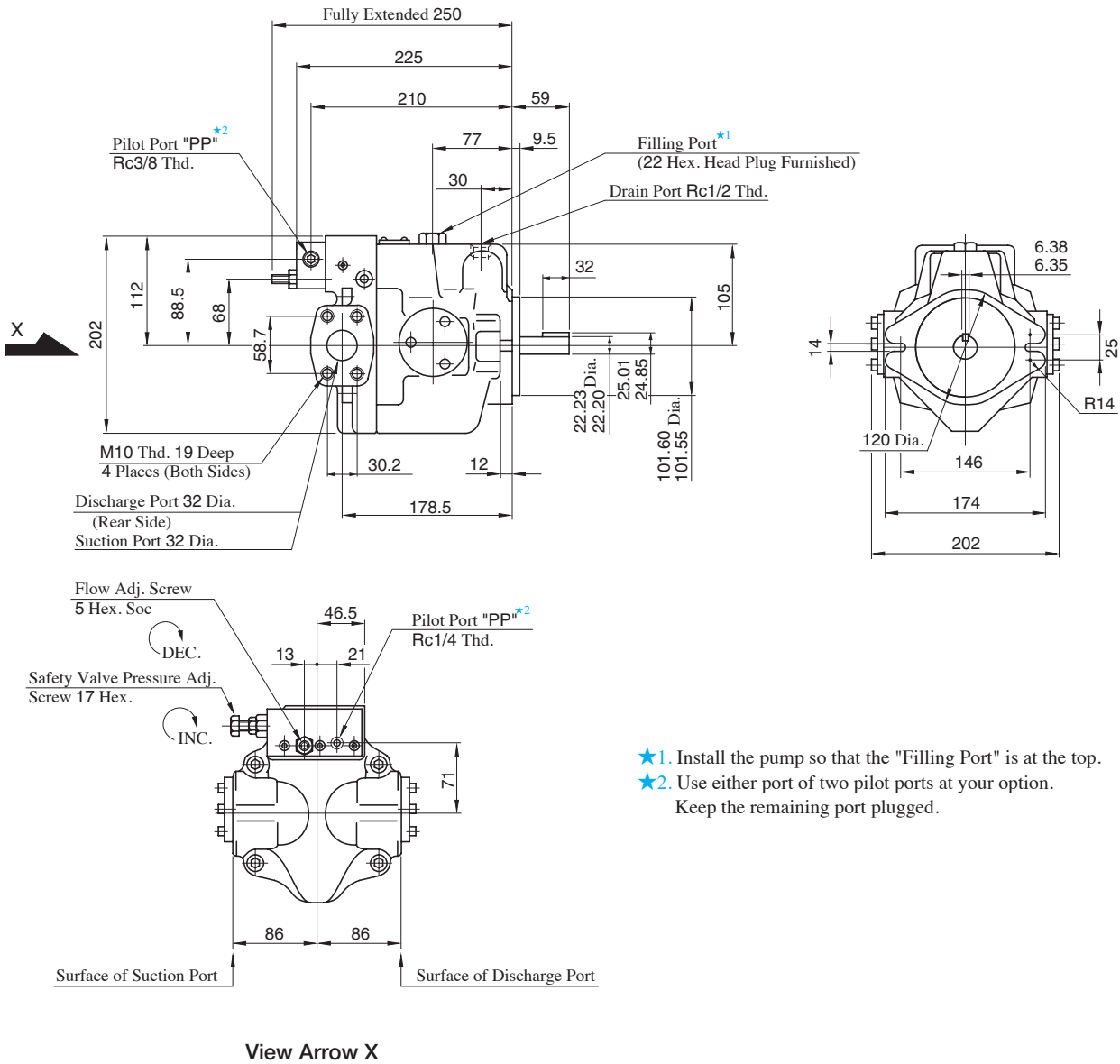
● Foot Mounting Type

Mounting bracket is common to that of pressure compensator model. Refer to page 44 for the dimensions of mounting bracket.

Side Port Type

Flange Mtg. : A37-F-R-07-S-K

DIMENSIONS IN
MILLIMETRES



- ★1. Install the pump so that the "Filling Port" is at the top.
- ★2. Use either port of two pilot ports at your option.
Keep the remaining port plugged.

● Axial Port Type

Port mounting dimensions are the same as those of pressure compensator model. Refer to page 46 for port mounting dimensions.

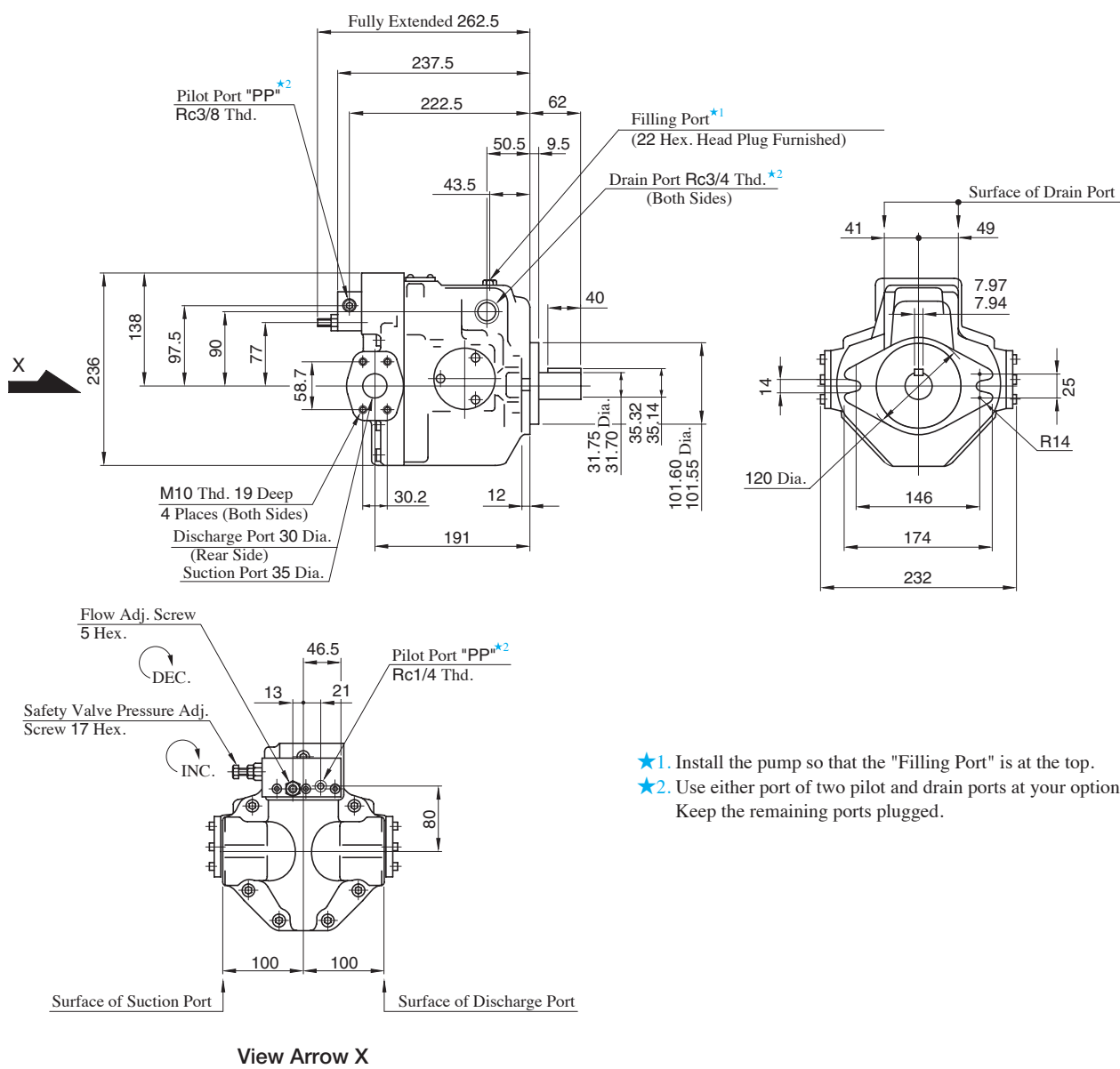
● Foot Mounting Type

Mounting bracket is common to that of pressure compensator model.
Refer to page 46 for the dimensions of mounting bracket.

Side Port Type

Flange Mtg. : A56-F-R-07-S-K

DIMENSIONS IN
MILLIMETRES



- ★1. Install the pump so that the "Filling Port" is at the top.
- ★2. Use either port of two pilot and drain ports at your option. Keep the remaining ports plugged.

● Axial Port Type

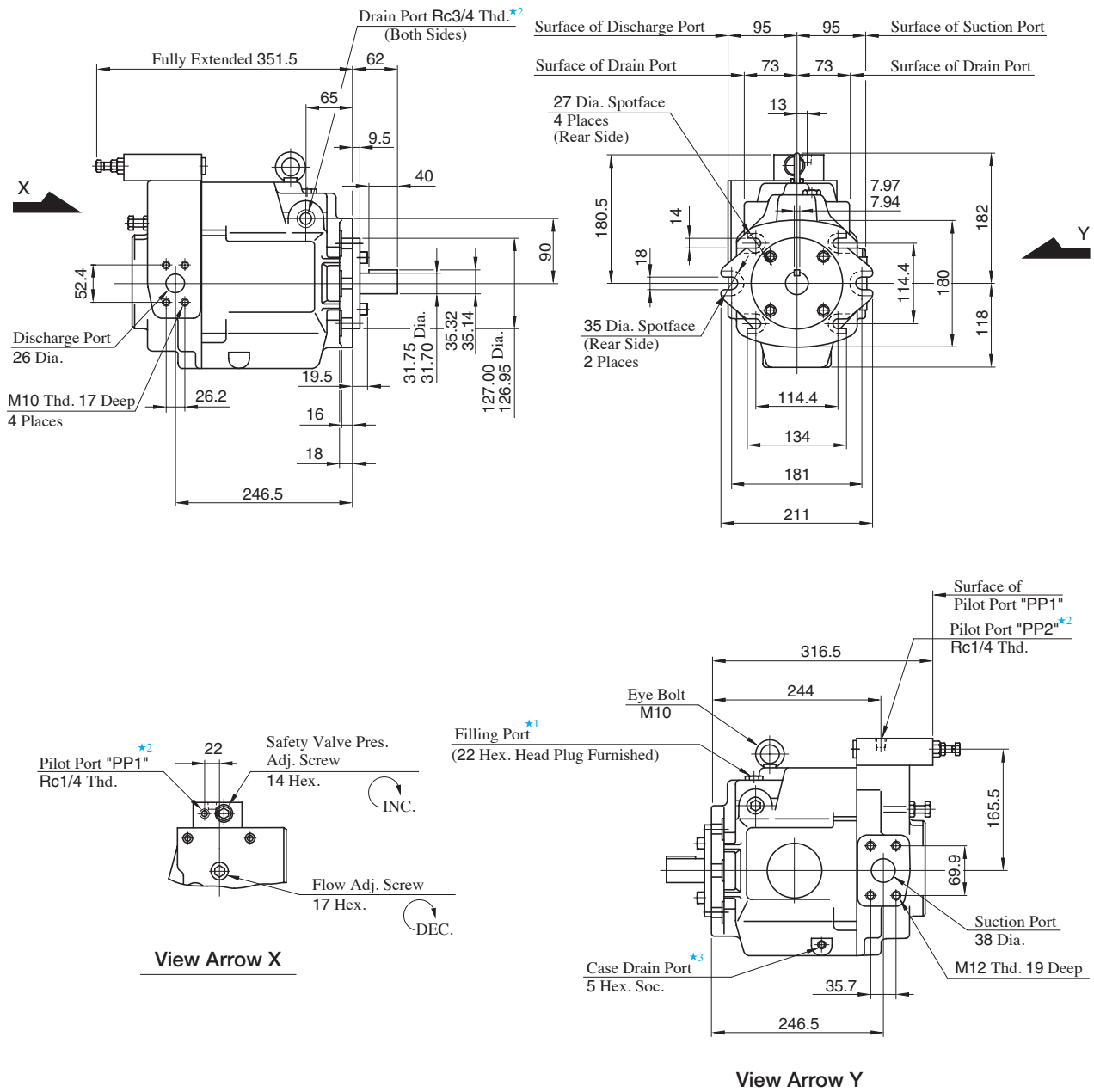
Port mounting dimensions are the same as those of pressure compensator model. Refer to page 47 for port mounting dimensions.

● Foot Mounting Type

Mounting bracket is common to that of pressure compensator model. Refer to page 47 for the dimensions of mounting bracket.

Flange Mtg. : A70-FR07S

DIMENSIONS IN
MILLIMETRES



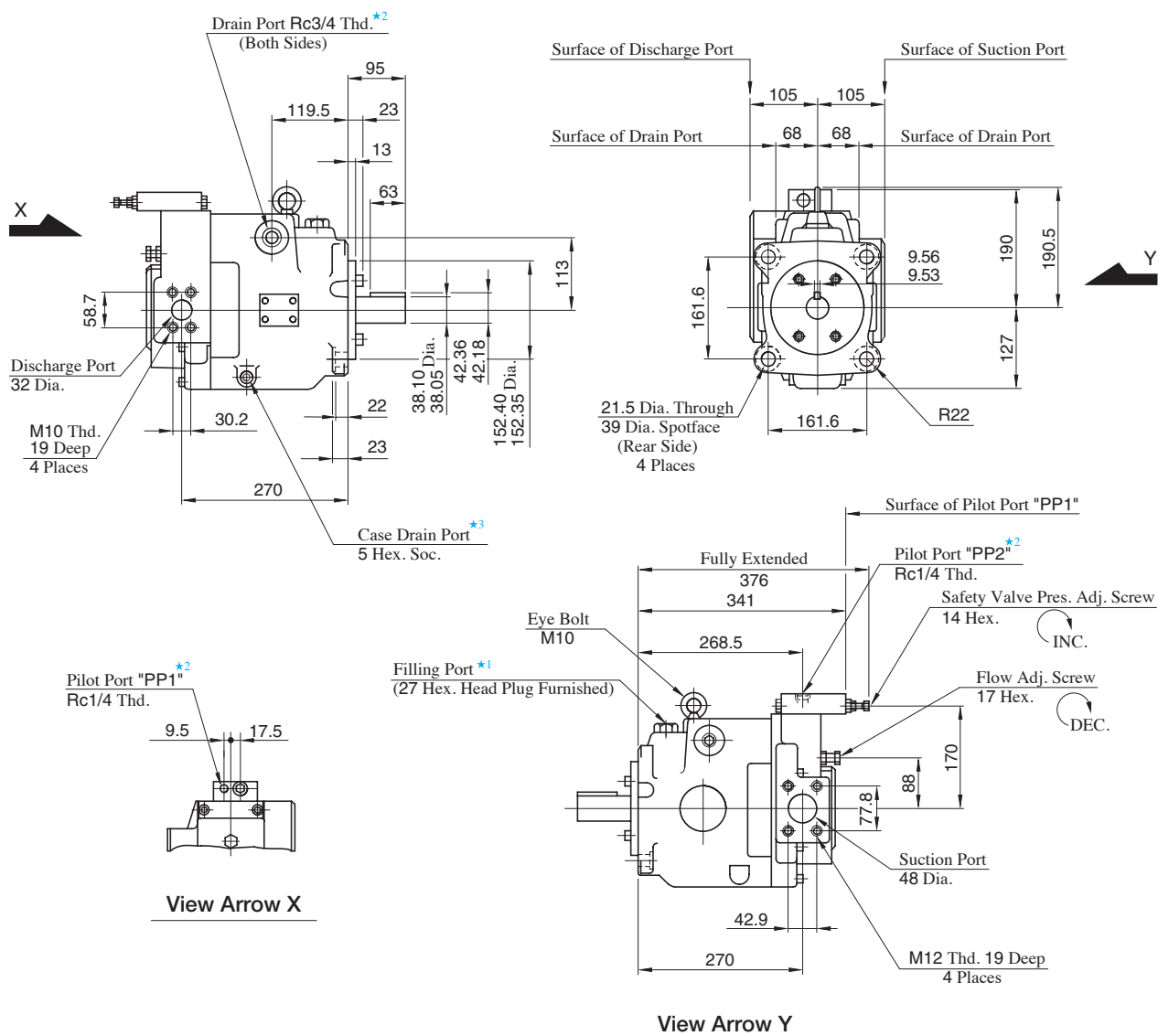
- ★1. Install the pump so that the "Filling Port" is at the top.
- ★2. Use either port of two pilot and drain ports at your option. Keep the remaining ports plugged.
- ★3. Case drain port is available for use when draining hydraulic fluid from pump casing.

● Foot Mounting Type

Mounting bracket is common to that of pressure compensator model.
Refer to page 48 for the dimensions of mounting bracket.

Flange Mtg. : A90-FR07S

DIMENSIONS IN
MILLIMETRES



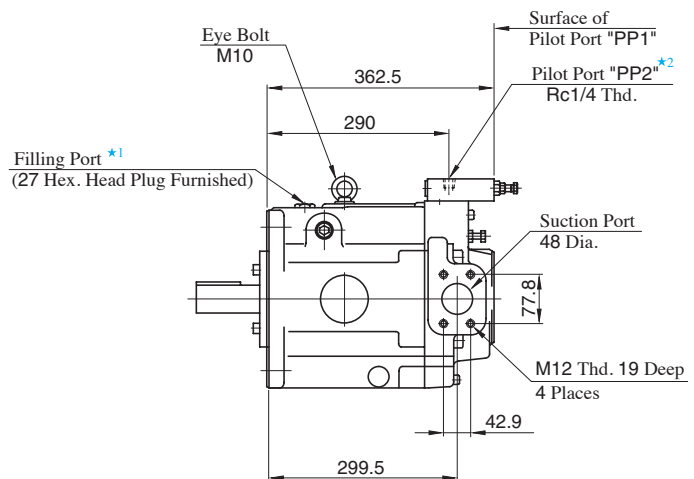
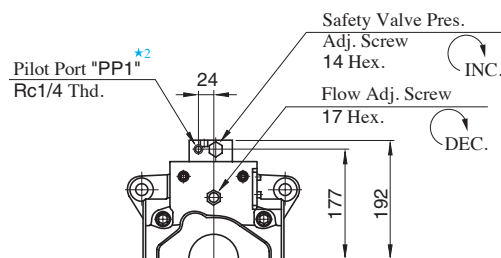
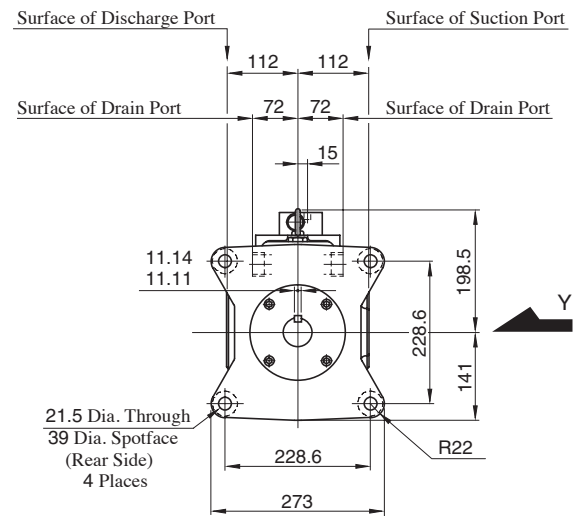
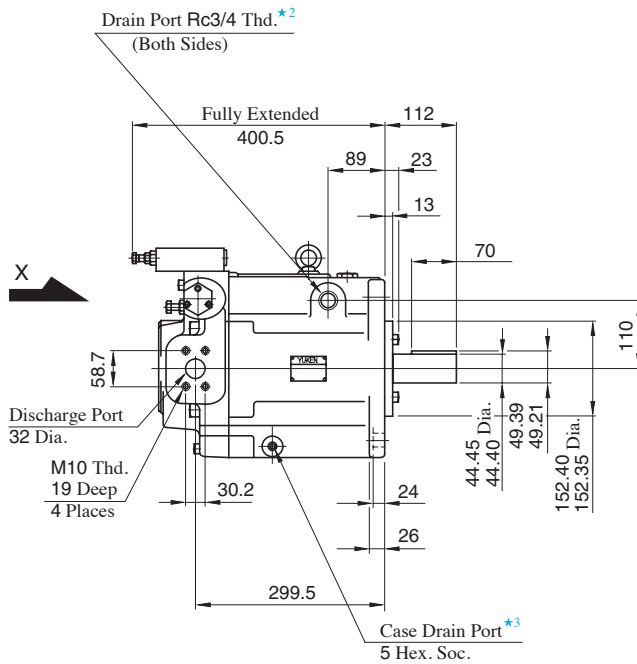
- ★1. Install the pump so that the "Filling Port" is at the top.
- ★2. Use either port of two pilot and drain ports at your option. Keep the remaining ports plugged.
- ★3. Case drain port is available for use when draining hydraulic fluid from pump casing.

● Foot Mounting Type

Mounting bracket is common to that of pressure compensator model.
Refer to page 49 for the dimensions of mounting bracket.

Flange Mtg. : A145-FR07S

**DIMENSIONS IN
MILLIMETRES**



- ★1. Install the pump so that the "Filling Port" is at the top.
- ★2. Use either port of two pilot and drain ports at your option. Keep the remaining ports plugged.
- ★3. Case drain port is available for use when draining hydraulic fluid from pump casing.

● Foot Mounting Type

Mounting bracket is common to that of pressure compensator model.
Refer to page 50 for the dimensions of mounting bracket.