

Screw Pump

model **AYN0010**



Model No. Indication

AYN001 0 - 5 R

Design No.

Accumulator
Setting Pressure
Number from 2 to 7.
Ex) 7: 7MPa

Layout of Accumulator,
Air Bleed Valve and
Oil Supply Port

R : As shown in the
outline drawing.

L : Symmetrically opposite
to the outline drawing.

Specifications

Model No.		AYN0010
Flow Rate ※1	cm ³ /rotation	1.6
Max. Volume of Discharge Oil※1	cm ³	28
Effective Rotation Range	rotation	18
Allowable Rotation Speed※2 ※3	rpm	300
Allowable Input Torque※2	N·m	8
Max. Operating Pressure	MPa	7.0
Withstanding Pressure※2	MPa	10.5
Operating Temperature	°C	0 ~ 70
Usable Fluid	General Hydraulic Oil Equal to ISO-VG-32	
Weight	kg	1.5

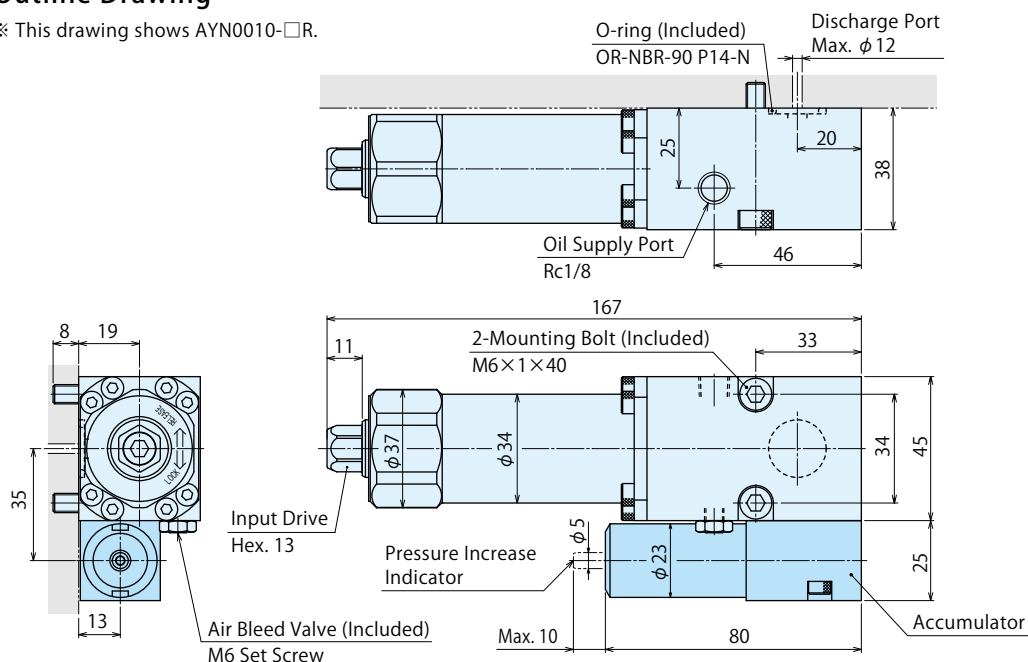
Notes : ※1. To prevent insufficient oil flow, examine the cylinder capacity, piping capacity, pressure increase conditions, etc., of devices to be connected.

※2. Exceeding the allowable rotation speed, allowable input torque, or withstand pressure will damage internal components and significantly degrade performance.

※3. When using a rotary tool such as a nut runner, decelerate before reaching the lock end and release end to prevent impact on the product.

Outline Drawing

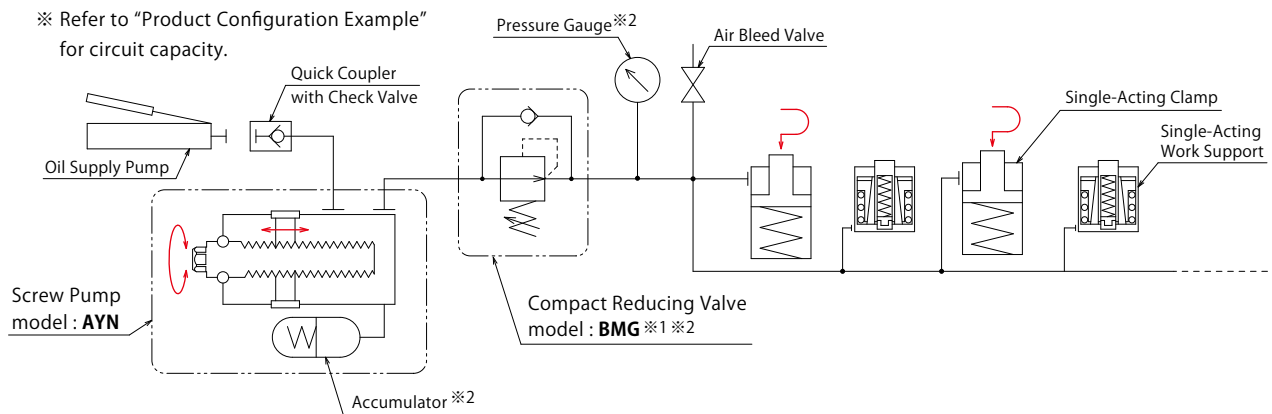
※ This drawing shows AYN0010-□R.



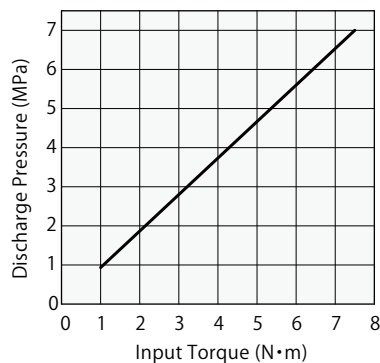
Note : 1. The product will be delivered in a released state.

Recommended Circuit Diagram

※ Refer to "Product Configuration Example" for circuit capacity.



Discharge Pressure Curve



Notes :

- ※1. The discharge pressure curve shows the calculated value. Since the discharge pressure may vary due to frictional changes of an internal screw, install a reducing valve to maintain a stable pressure.
 - ※2. Provide a pressure difference of 1 MPa or more between the setting pressure of the reducing valve and that of the accumulator. If the setting pressure is inappropriate, holding pressure over time will not be possible. For details, please refer to the reducing valve (model: **BMG**) catalog.
1. If the discharge pressure is lower than the input torque, supply oil and bleed air from the circuit.

Product Configuration Example

This table shows examples of single-acting clamps that can be configured on a single screw pump.

The clamps can be configured in any combination with a total cylinder capacity of 25 cc or less.

Configuration Clamp Example	Model No.	Max. Clamping Force per Screw Pump (kN)	Cylinder Capacity per Screw Pump (CC)	Max. Number of Installable Clamps
	LG0361	1.8 (Lever Length : 30mm)	4.9	4
	LG0401	2.4 (Lever Length : 40mm)	7.1	3
	LJ0302	1.6 (Lever Length : 20mm)	4.1	4
	LJ0362	2.6 (Lever Length : 22.5mm)	7.0	3
	SFG2000	4.2	3.0	6
	SFG3000	7.7	5.4	4
	LD0223	2	0.4	9
	LD0263	3	0.6	6
	LD0303	4	0.9	4
	VS0040	4	4.6	4
	VS0060	6	5.5	4