Pascal pump model **X63**

● Air-driven, compact, high performance hydraulic pump.

● Pascal pump is a compact but reliable hydraulic pump, which converts a compressed air force into high-pressure hydraulic power.

● Secure and high speed reciprocation of air and hydraulic piston generates a repetitive suction and discharge of air and oil. As the hydraulic pressure becomes close to the designated level, the reciprocation becomes slower. At the designated hydraulic pressure, the driving air force and hydraulic force become balanced to maintain the pressure.

● At the balanced condition, there is no air consumption so that there is no power loss or temperature rise compared to an electric pump. In the event of an air supply failure, the hydraulic pressure can be kept by the built-in check valve on the discharge side.

● If there is a decrease in the downstream holding pressure, the pump immediately reacts to start reciprocating to recover the pressure loss.
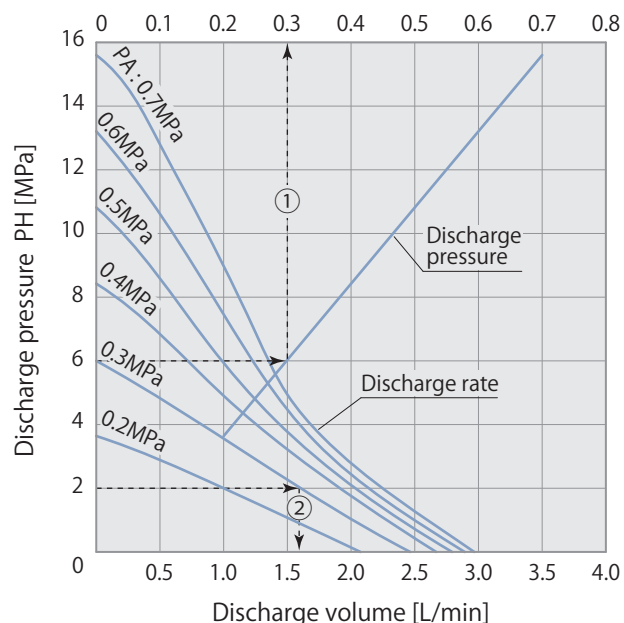
Model	X6312	X6316
Control unit models	HCD4H-W HCD4H-S HCSD-H4U HCSD-H4A HCT-4	HCD5H-W HCD5H-S HCSD-H5U HCSD-H5A HCT-5
Boosting ratio	24	15
Mass	2.6 kg	

Air pressure range : 0.2–0.7 MPa
Air consumption : 0.4 Nm³/min
Operating noise : 78±1 db (A)
Operating temperature : 0–70 ℃ (No frozen)

Performance diagram [Measured with operating oil ISO-VG32 at 20℃]

X6312 PH = 24 (PA-0.05)

X6316 PH = 15 (PA-0.05)
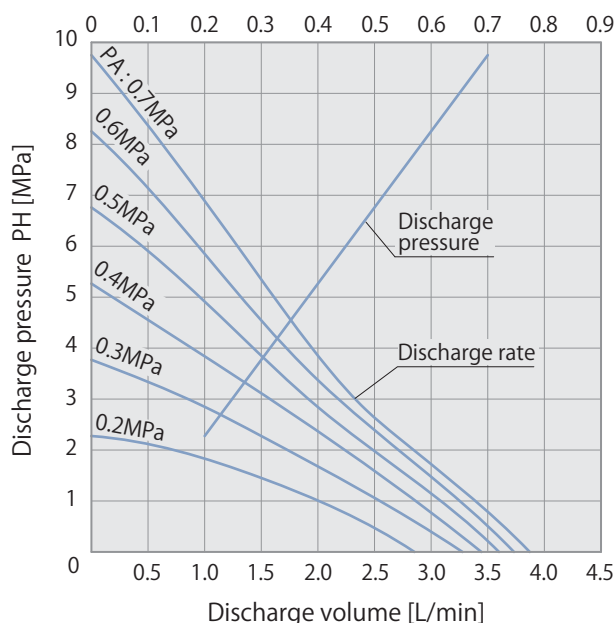
1. How to read the discharge pressure (PH)* [ex：X6312]
＊：PH is the pump discharge pressure when cylinders are clamped and the circuit pressure is built up.

When 6 MPa is required for PH, the desired air pressure (PA) should be 0.3 MPa by following the chain line ①.

2. How to read the discharge volume [ex：X6312]

When 0.3 MPa air pressure (PA) is supplied, with discharge pressure at 2 MPa, the discharge volume should be 1.6 L/min by following the chain line ②. (Pump discharge pressure while cylinders are in action may vary according to the circuit structure.)

Pascal pump

X63