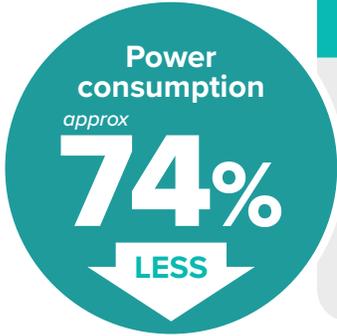


NEW

NACHI

Equipped with High Efficiency IPM Motor to further enhance energy-saving performance

IPM Motor + Inverter Drive Energy-Saving Hydraulic Power Unit



Energy Saving Performance

- Variable pump
- Inverter Control
- Equipped with High Efficiency IPM Motor

Improved Compatibility

- Not restricted by High Efficiency motor regulation
- All models share a consistent size and weight (approx. 39 kg), ensuring easy installation and piping compatibility without design changes for each machine

Quiet

- 54dB (A) during pressure holding¹
- Noise reduction provides a safer work environment and contributes to factory noise reduction goals

Low Heat Generation

- Oil temperature is 9°F over ambient or less²
- Improved machining accuracy
- Extended life cycle for oil and sealed parts



IPM motor

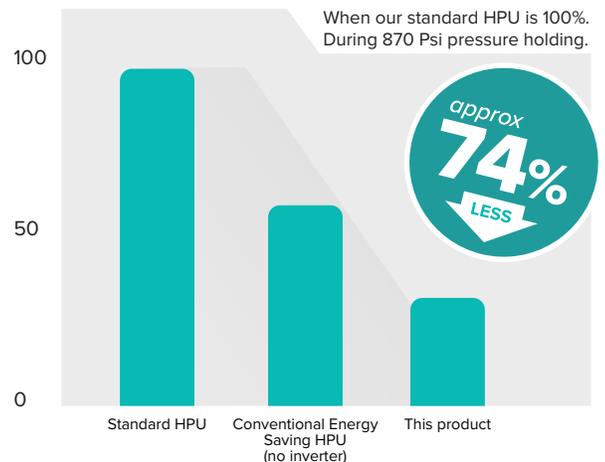
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Inverter Controlled

Fit for machine tools

Standard Safety Features (STO function)

Compatible with IoT (RS-485 communication)



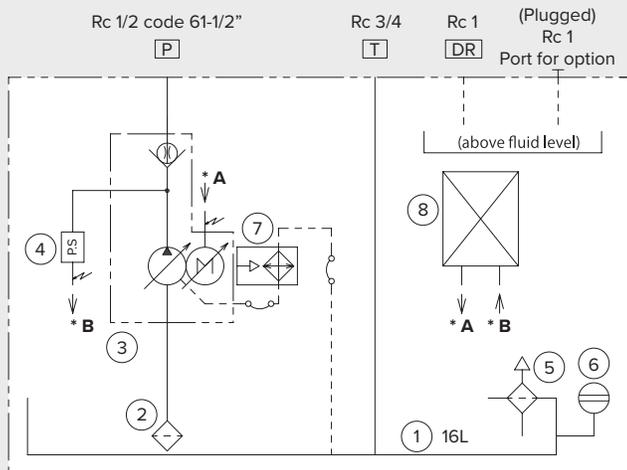
¹Condition: 1m around the unit 4-direction average during 6MPa pressure holding. Unit model NSP-16E-S22V1A4-1590A.

² Circuit leak 0 in ³/min during 870 Psi pressure holding.

Specifications

Power Voltage	3φAC 200V to 240V, 50/60Hz (200V series) 3φAC 380V to 480V, 50/60Hz (400V series)
Rated Input Current	7.5A/1.5kW, 11.0A/2.2kW (200V series) 4.4A/1.5kW, 6.0A/2.2kW (400V series)
Discharge Vol (unloaded time)	1A: 28 L/min [7.4 gpm]
Operating Hydraulic Fluid	Standard mineral-based hydraulic fluid (ISO VG32)
Operating Hydraulic Fluid Temperature	15 to 60 °C (59 to 140 °F)
Paint Color	Munsel No. N1 70% gloss
Ambient Temperature / Humidity	10 to 35 °C (50 to 95 °F) / 20 to 85%RH (non-condensation) (Keep away from water-soluble cutting fluid mist)

Hydraulic Circuit Drawing



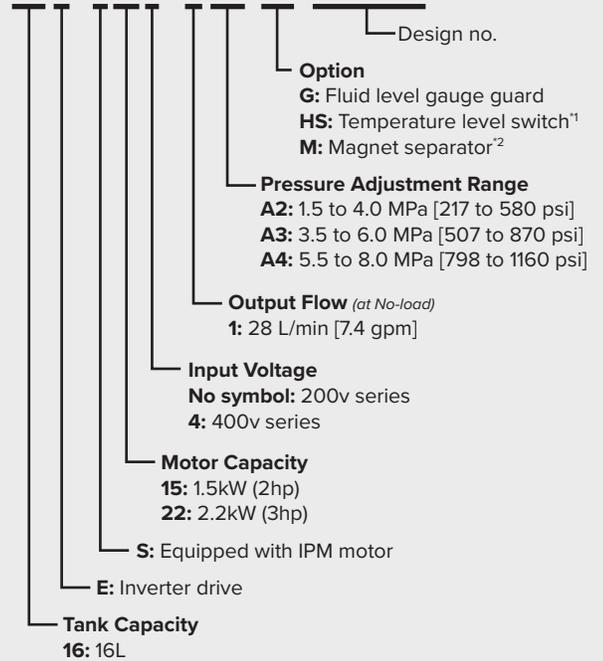
- | | |
|---------------------|-----------------------------------|
| 1. Oil Tank | 5. Oil supply port / air breather |
| 2. Suction Strainer | 6. Sight gauge |
| 3. Uni Pump | 7. Radiator |
| 4. Pressure Sensor | 8. Inverter |

Warning

- Turning the inverter on / off by cutting the main power supply (circuit breaker) significantly reduces the life of the inverter and should be limited to once an hour.
- Contact us if you need to start and stop operations frequently.
- Do not change any settings, regarding the inverter parameters, except the parameters described in the setting procedures in the user documentation.
- Please use a flexible hose with an internal diameter of 1/2 inch, a maximum operating pressure of 14 MPa, and a length of 2 meters or more to connect from the P port (discharge port) of the hydraulic unit to the external manifold block.
- Ensure that the maximum peak pressure (set pressure + surge pressure) is within 14 MPa. If the maximum peak pressure exceeds 14 MPa, install a relief valve on the circuit side for surge pressure control.
- The leakage amount on the external hydraulic circuit side should be 1 L/min or less. If the leakage amount exceeds 1 L/min, please contact us separately.
- Please use the hydraulic system so that the oil level fluctuation inside the tank remains within the visible range of the oil level gauge.
- Install the radiator with a distance of 100 mm or more between the intake section and the surrounding environment.

Explanation of Model no.

NSP-16E-S***V1A*-**-1590A

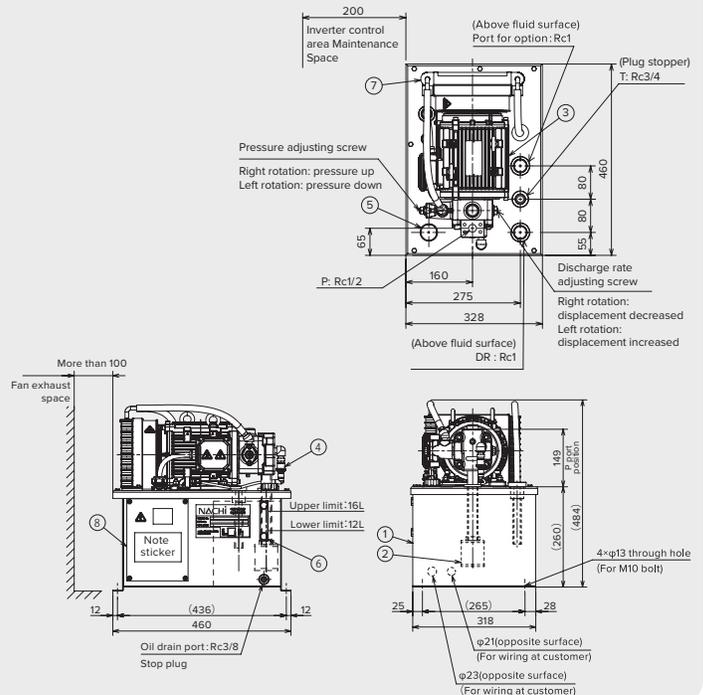


Note: Option selection

¹ Temperature level switch and magnet separator can't be selected together

² Temperature: On at 60 °C (A contact), level: On at bottom (A contact)

Dimensions



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