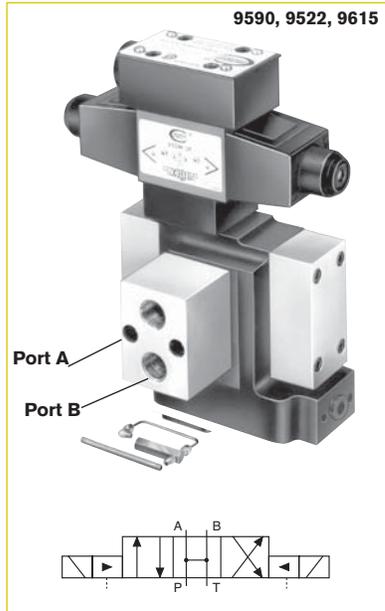


# VALVES

## Pump Mounted Solenoid or Air Operated



### 4-WAY/3-POSITION (OPEN CENTER) SOLENOID VALVE

**Application** – Double-acting cylinders.

**Actuation** – Solenoid operated, 115 volt, 50/60 Hz.

**Functions** – “Advance,” open center and “return” positions. Cylinder ports and pump port are open to reservoir in “neutral.”

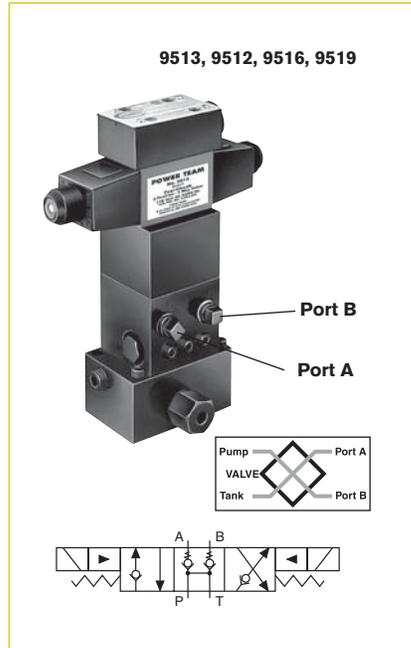
**Used on these pumps** – Furnished with pilot lines and adapters for PE30 (with carrying handles removed), PE55, PE90 and PE120 series. For other pump models, consult factory. **NOTE:** A pressure switch and/or gauge may be attached if desired (see pages 110-111, 131).

**No. 9590** – 4-way/3-position (open center) solenoid valve, 115 volt, 50/60 Hz.

Wt., 15.5 lbs.

**No. 9522** – Same as 9590 except for 230 volt, 50/60 Hz.

**No. 9615** – Same as 9590 except for 24 volt, 50/60 Hz.



### 4-WAY/3-POSITION (TANDEM CENTER) PILOT OPERATED SOLENOID VALVE

**Application** – Double-acting cylinders.

**Actuation** – Solenoid operated, 115 volt, 50/60 Hz.

**Functions** – “Advance,” “hold” and “return.” The *Posi-Check*® feature holds the load when shifting from the “advance” to the “hold” position.

**Used on these pumps** – PE17, PE21, PE30 (with carrying handles removed), PE46, PE55, PE84, PE90, PE120, PE200, PE400, PQ60 and PQ120 series. **NOTE:** A gauge may be attached if desired (see pages 110-111).

**No. 9513** – 4-way/3-position (tandem center) solenoid valve, 115 volt, 50/60 Hz. Wt., 18.1 lbs.

**No. 9512** – Same as 9513 except for 24 volt, 50/60 Hz circuits.

**No. 9516** – Same as 9513 except for 12 volt DC. For use on the PG1204S and PG400 series pumps only.

**No. 9519** – Same as 9513 except for 230 volt, 50/60 Hz circuits. Consult factory for field installation.

**NOTE:** Valves above are shipped without control switch.

**CAUTION:** To prevent sudden, uncontrolled descent of a load as it is being lowered, use a No. 9596 Load Lowering Valve or No. 9720 Counter Balance Valve (see page 118) in conjunction with the directional valve used in your application.

**IMPORTANT:** Conversion kit 251528 must be used when mounting the 9609 valve on PA17 or PE17 pumps.

**IMPORTANT:** When ordering any valve for a PE30 or PG30 series pump, 1/2” longer mounting screws are required. For valves 9513 and 9519, order four 11956 cap screws. For valves 9523, 9553 and 9589, order four 10855 cap screws. For valves 9522, 9590 and 9615, order four 10854 cap screws.



### 3-WAY/2-POSITION (PILOT OPERATED, NORMALLY OPEN) SOLENOID VALVE

**Application:** Single-acting cylinders.

**Actuation:** Solenoid operated, 115 volt, 50/60 Hz.

**Function:** “Advance” and “return.”

**Used on these pumps:** Furnished with pilot lines and adapters for PE30 (with carrying handles removed), PE55, PE90 and PE120 series. For other pump models, consult factory. **NOTE:** A pressure switch and/or gauge may be attached if desired (see pages 110-111, 131).

**No. 9589** – 3-way/2-position (pilot operated) solenoid valve, 115 volt, 50/60 Hz. Wt., 8.2 lbs.

**No. 9523** – Same as 9589 except for 230 volt, 50/60 Hz.

**No. 9553** – Same as 9589 except for 24 volt, 50/60 Hz.