

General Description

2 Way, Normally Closed, Proportional Poppet Valve. For additional information see Technical Tips on pages PV1-PV5.

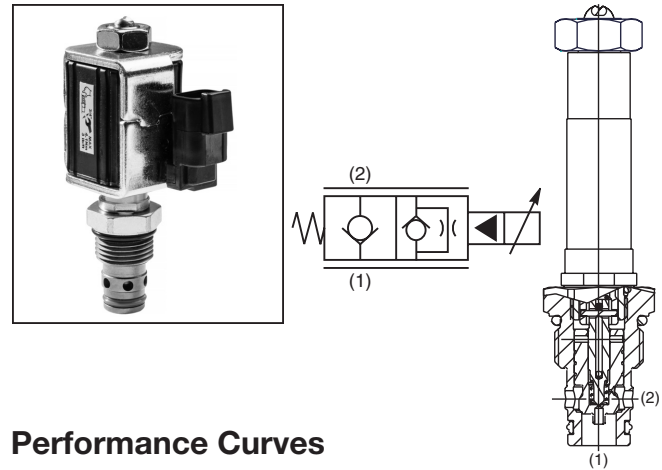
Features

- One piece cartridge housing ensures internal concentricity
- Adjusted at factory for low variation
- Coil: Waterproof, hermetically sealed, requires no O’Rings; Symmetrical coil can be reversed without affecting performance.
- Industry common cavity

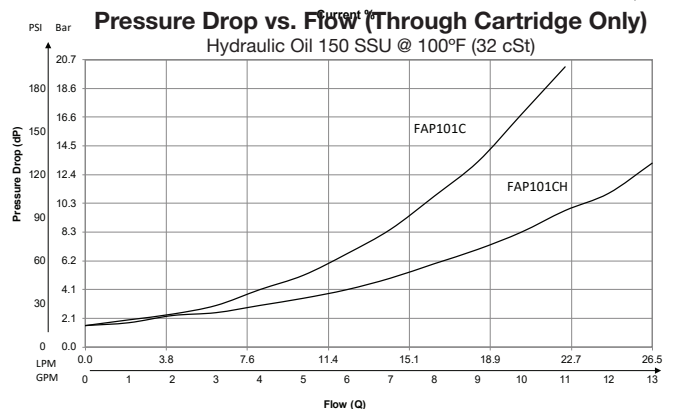
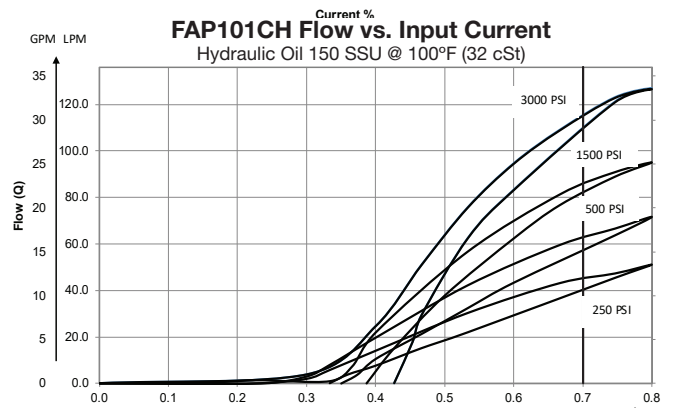
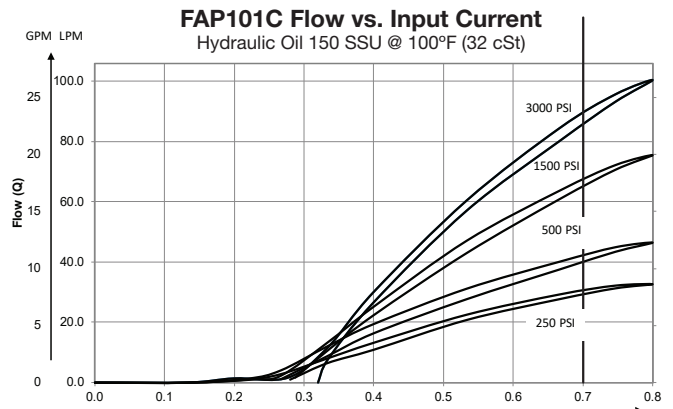
Specifications

All performance data with CAS coil.
 Maximum current, 70% recommended.
 Hydraulic oil 150 SSU @ 40°C (32 cSt)

| | |
|---|---|
| Rated Flow @ 70% of Full Current at ΔP 34.5 Bar (500 PSI) | FAP101C 40 LPM (10.5 GPM) FAP101CH 45 LPM (13 GPM) |
| Maximum Input Pressure at Port 2 | 210 Bar (3000 PSI) |
| Minimum Pressure Differential | 21 Bar (300 PSI) |
| Maximum Internal Leakage | 5 drops/min. (.33 cc/min.) @ 210 Bar (3000 PSI) |
| Hysteresis @ 100 Hz PWM | <15% NOTE: Current regulated PWM recommended |
| Cartridge Material | All parts steel. All operating parts hardened steel. |
| Operating Temp. Range/Seals | -37°C to +93°C (“D”-Ring) (-35°F to +200°F) -34°C to +121°C (Nitrile Buna-N) (-30°F to +250°F) -26°C to +204°C (Fluorocarbon) (-15°F to +400°F) |
| Fluid Compatibility/Viscosity | Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt) |
| Filtration | ISO-4406 18/16/13, SAE Class 4 |
| Approx. Weight | 0.19 kg (0.42 lbs.) |
| Cavity | C10-2 (See BC Section for more details) |

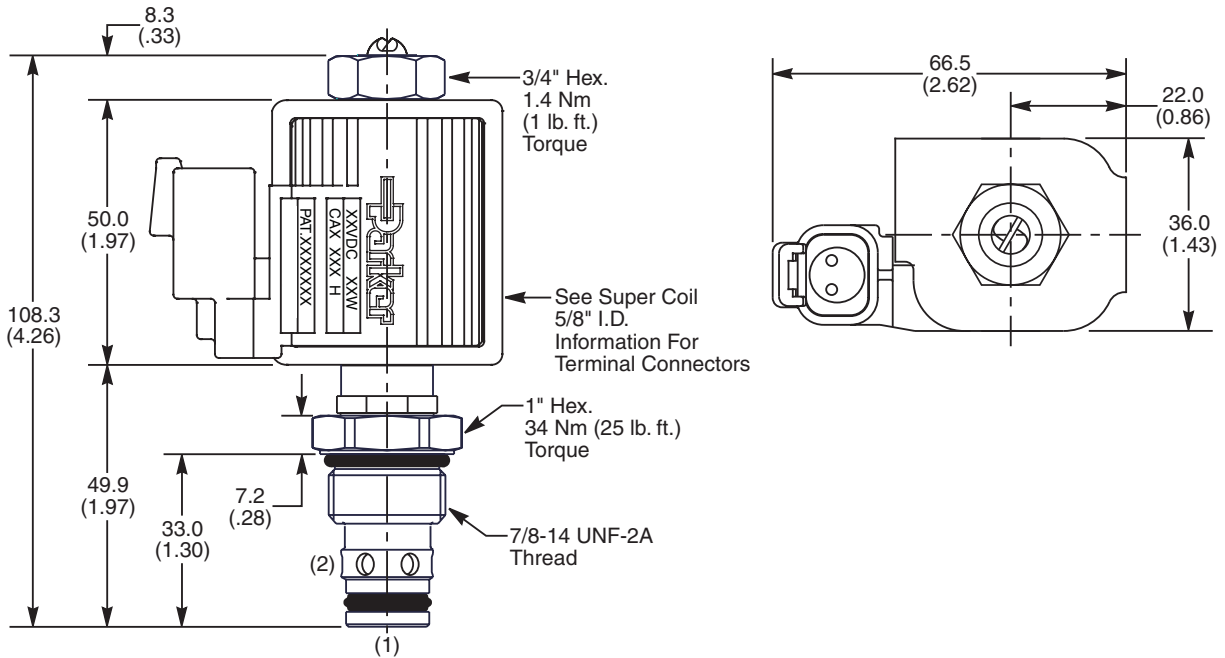


Performance Curves



- CV Check Valves
- SH Shuttle Valves
- LM Load/Motor Controls
- FC Flow Controls
- PC Pressure Controls
- LE Logic Elements
- DC Directional Controls
- MV Manual Valves
- SV Solenoid Valves
- PV Proportional Valves
- CE Coils & Electronics
- CB Cartridge Bodies
- BC Bodies & Cavities
- TD Technical Data

Dimensions Millimeters (Inches)



Ordering Information

| | | | | |
|----------------------------|----------|-------------|-----------------|-------|
| FAP101 | C | | | |
| 10 Size Proportional Valve | Style | Flow Option | Override Option | Seals |

Highlighted represents preferred options that offer the shortest lead times. Other options may be available, but at extended lead times.

Coil(s) sold separately. Please see section CE of this catalog, 5/8" Coil (CA series), for ordering information.

| Code | Style |
|----------|------------------------|
| C | Normally Closed |

| Code | Flow Option |
|------|-------------|
| Omit | Standard |
| H | High Flow |

| Code | Override Option |
|------|-----------------|
| Omit | Standard |
| M | Screw Type |

| Code | Seals / Kit No. |
|-------------|----------------------------|
| Omit | "D"-Ring / (SK10-2) |
| N | Nitrile / Buna-N (SK10-2) |
| V | Fluorocarbon / (SK10-2V) |

Order Bodies Separately
 See section BC

| | | | | |
|------------|---|--------------|---|-----------|
| B10 | - | 2 | - | |
| 10 size | | 2-Way Cavity | | Port Size |

| Code | Porting / Body Material |
|------------|-------------------------------------|
| 8T | SAE-8 / Steel (5000 PSI) |
| A8T | SAE-8 / Aluminium (3000 PSI) |

- CV**
- Check Valves
- SH**
- Shuttle Valves
- LM**
- Load/Motor Controls
- FC**
- Flow Controls
- PC**
- Pressure Controls
- LE**
- Logic Elements
- DC**
- Directional Controls
- MV**
- Manual Valves
- SV**
- Solenoid Valves
- PV**
- Proportional Valves
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