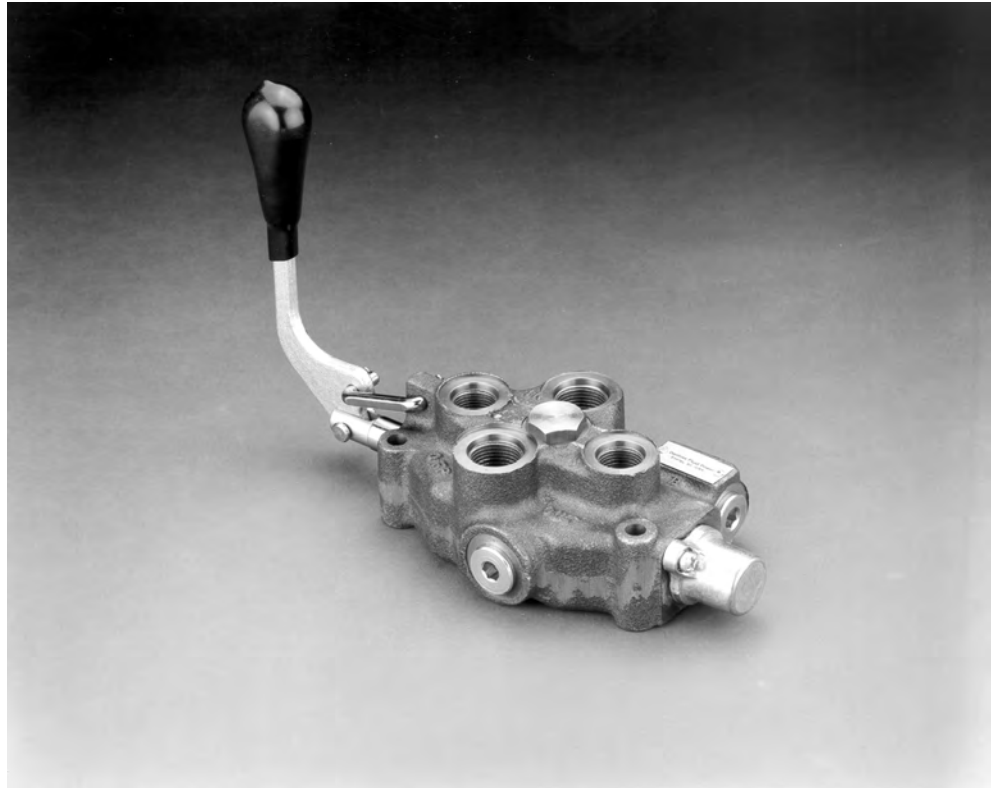




Directional Control Valves
Technical Information
Model 1612



DESCRIPTION

Single spool monoblock valve. 76 l/min [20 US gal/min] maximum flow. 207 bar [3000 psi] maximum pressure.

TYPICAL APPLICATIONS

Sweepers, mowers, agricultural equipment, auxiliary valves, tree removal equipment

- All valves supplied with clevis end spools
- Power-beyond port machined and plugged (use whenever a downstream valve is required)
- Cast-iron body
- Chrome plated spools select fit to body for leakage control
- Paint color: black primer
- Closed transition spool timing prevents load drop before raise
- Individually boxed and labeled

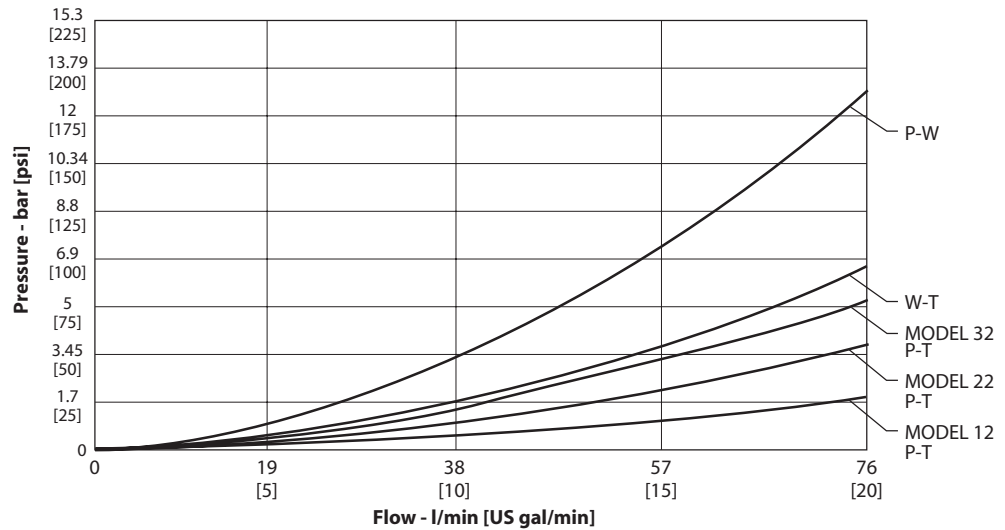


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PRESSURE DROP



PORTING

| | |
|----------------------------|--------------------------------------|
| Inlet/outlet | 7/8-14, SAE (standard) 3/4-16 SAE |
| Locations available | top and side |
| Work ports | 3/4-16, SAE (standard) |

HANDLES

- C-hook kit
- Standard handle with C-hook kit
- Pivot-block handle kit

TECHNICAL DATA

| | | |
|--|--------------------------------|-----------------------------|
| Maximum pressure | 207 bar | [3000 psi] |
| Maximum tank line pressure | 69 bar | [1000 psi] |
| Maximum oil flow | 76 l/min | [20 US gal/min] |
| Spool travel in and out from neutral | 6.3 mm | [0.25 in] |
| Spool travel to float position from neutral | 12.6 mm | [0.50 in] |
| Maximum port leakage at 69 bar [1000 psi] 21 mm²/sec (cSt) [102 SUS] | 24 cm ³ /min | [1.46 in ³ /min] |
| Maximum lift check leakage at 69 bar [1000 psi] 21 mm²/sec (cSt) [102 SUS] | 82 cm ³ /min | [82 cm ³ /min] |
| Minimum oil temperature | -29° C | [-20° F] |
| Maximum oil temperature | 82° C | [180° F] |
| Ambient temperature range | -29° to 60° C | [-20° to 140° F] |
| Minimum viscosity | 6 mm ² /sec (cSt) | [45 SUS] |
| Maximum viscosity | 440 mm ² /sec (cSt) | [2000 SUS] |
| Fluid cleanliness per ISO 4406 | 19/16 | |
| typical spool effort: dry, full stroke | 231 N | [53 lbf] |



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OPTIONS

Spool types

| Symbol | Description |
|--------|--------------------------|
| | 4-way open center |
| | 4-way open center |
| | 4-way float open center |
| | 3-way port A open center |
| | 4-way motor open center |

Spool action

- Spring center
- Detent in, detent out, and three position detent
- Detent in float
- Motor start switches

Relief valve

Direct acting ball and spring

- 0.9 bar per liter [50 psi per gallon] rise
- Not for use on settings over 30 l/min [8 US gal/min]. Full flow setting at 138 bar [2000 psi]
- Adjustable is standard, tamper-proof cap is optional.

Pilot operated relief valve

- 0.4 bar per liter [20 psi per gallon] rise
- No restrictions on setting up to 207 bar [3000 psi]
- Adjustable standard, tamper-proof is optional.



DIMENSIONS

