**DESCRIPTION**

Two-spool directional control valve with parallel circuitry. 38 l/min [10 US gal/min] maximum flow. 207 bar [3000 psi] maximum pressure.

**TYPICAL APPLICATIONS**

Lawn and garden tractors, mowers, small tractor loader attachments, sweepers, utility trucks, trenchers, agricultural equipment

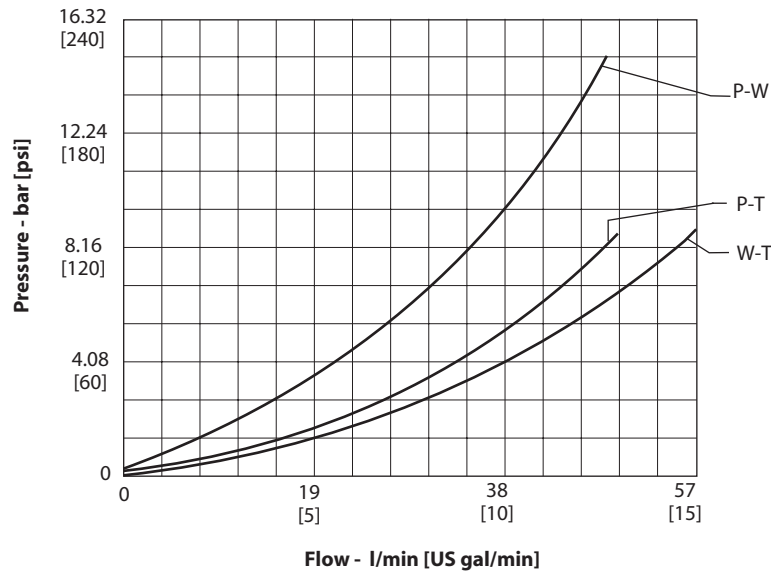
**STANDARD FEATURES**

- 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
- Load-check for each spool to prevent load drop before raise
- Float conversion (add float detent kit **A** to standard **T** spool)
- Open transition valve
- Individually boxed and labeled

**OTHER FEATURES  
AVAILABLE**

- Tang-end spool (for cable control)
- Single handle, mechanical joystick control (model 1627)
- Unidirectional or bidirectional drop-in work port orifice plates
- Range of port sizes

**PRESSURE DROP**



**TECHNICAL DATA**

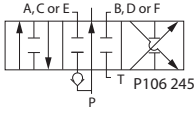
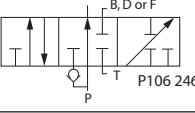
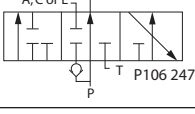
Maximum pressure	207 bar	[3000 psi]
Maximum tank line pressure	69 bar	[1000 psi]
Maximum oil flow	38 l/min	[10 US gal/min]
Spool travel in and out from neutral	4.8 mm	[0.19 in]
Spool travel to float position from neutral	9.65 mm	[0.38 in]
Maximum port leakage at 69 bar [1000 psi] 21 mm <sup>2</sup> /sec (cSt) [102 SUS]	16 cm <sup>3</sup> /min	[1 in <sup>3</sup> /min]
Maximum lift check leakage at 69 bar [1000 psi] 21 mm <sup>2</sup> /sec (cSt) [102 SUS]	82 cm <sup>3</sup> /min	[5 in <sup>3</sup> /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 <sup>2</sup> /sec (cSt)	[45 SUS]
Maximum viscosity	440 mm <sup>2</sup> /sec (cSt)	[2000 SUS]
Fluid cleanliness per ISO 4406	19/16	
Typical spool effort: dry, full stroke	231 N	[52 lbf]
Weight	3.62 kg	[8 lbs]

*Spool types*

**OPTIONS**

Code	Symbol	Description
<b>C</b>		4-way, 3-position Closed center Work ports blocked to tank in neutral position
<b>F</b>		4-way, 4-position Open center Work ports blocked to tank in neutral position Open to tank in fourth position or float
<b>O</b>		4-way, 3-position Motor open center Work ports open to tank in neutral position

**OPTIONS**  
 (continued)

Code	Symbol	Description
T		4-way, 3-position Open center Work ports blocked to tank in neutral position
V		3-way, 3-position Open center Work ports blocked to tank in neutral position (B, D, or F)
X		3-way, 3-position Open center Work ports blocked to tank in neutral position (A, C, or E)

*Spool action*

Code	Description	Code	Description
A	Spring centered, detent in float	N	Spring centered, detent in
D	3-position detent	S	Spring centered
L	Spring centered, detent out		

*Relief valve*

Code	Description
2	Direct-acting ball and spring <ul style="list-style-type: none"> <li>• 1 bar/l [50 psi/gal] rise</li> <li>• Standard setting 83 bar [1200 psi] crack pressure at 2.9 l/min [0.75 US gal/min]</li> <li>• Not for use on setting over 30 l/min [8 US gal/min]</li> <li>• Full flow setting at 138 bar [2000 psi]</li> </ul>
3	Pilot operated relief valve <ul style="list-style-type: none"> <li>• 0.4 bar/l [20 psi/gal] rise</li> <li>• No restrictions on setting up to 210 bar [3000 psi]</li> <li>• Standard setting 138 bar [2000 psi] crack pressure at 2.9 l/min [0.75 US gal/min]</li> </ul>

*Porting*

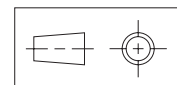
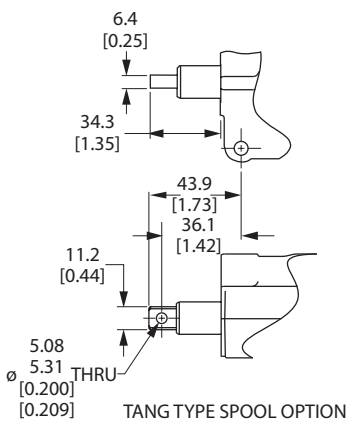
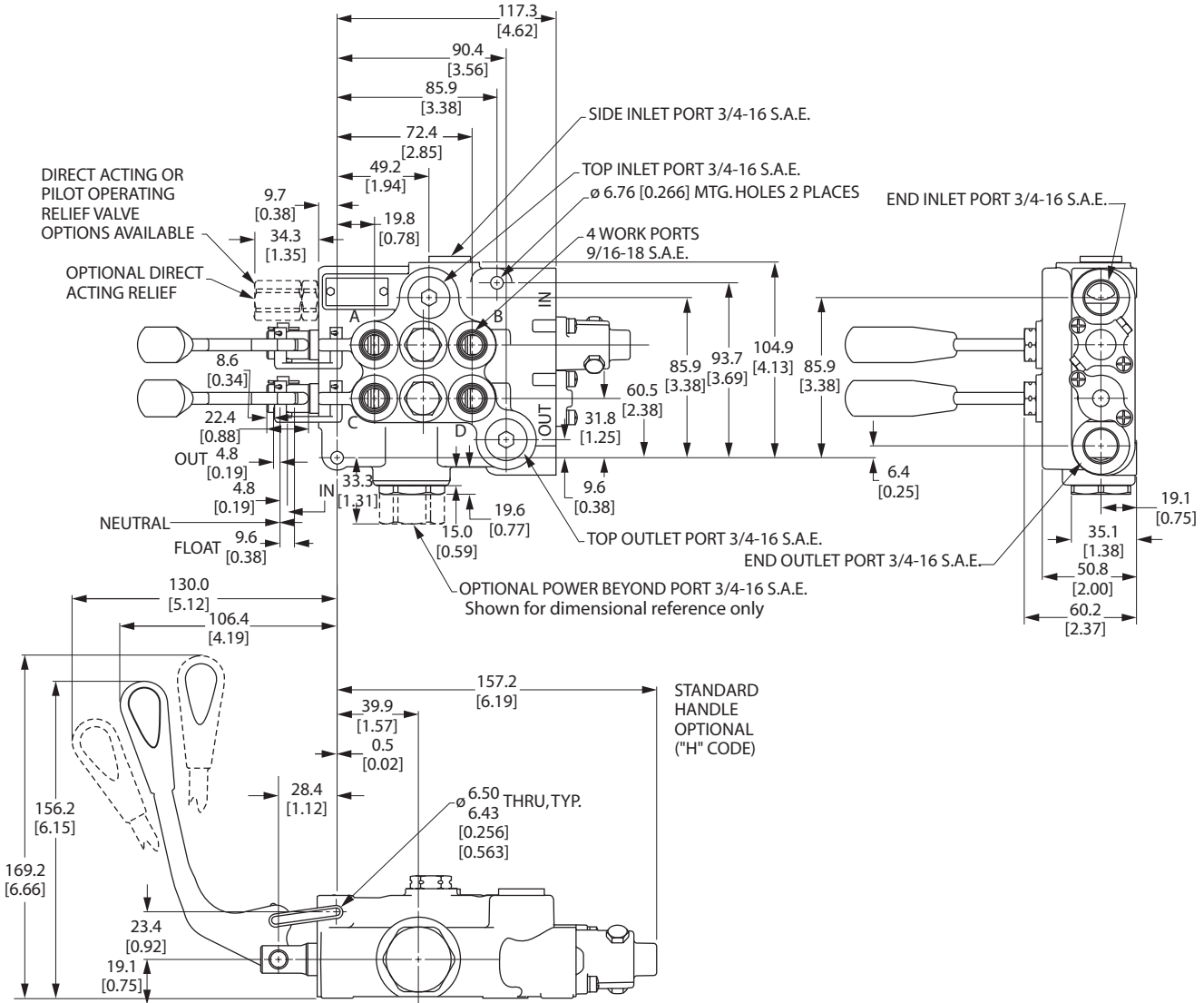
<b>Inlet/outlet</b>	3/4-16, SAE 8
<b>Locations available</b>	inlet-side, top, end outlet-top, end
<b>Work ports</b>	9/16-18, SAE-6

Power-beyond port machined and plugged. (Remove plug and install sleeve for power-beyond feature.)

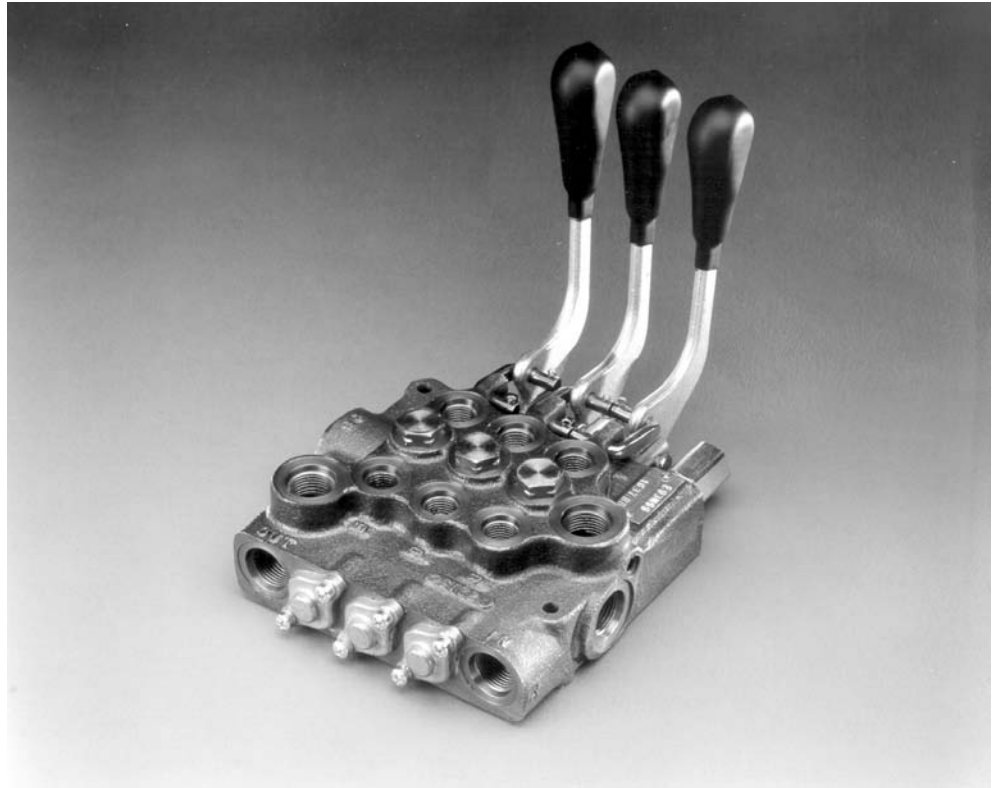
*Handles*

Code	Description
C	C-hook kit
F	Joystick (option)
H	Standard handle with C-hook kit
P	Pivot-block handle kit
N	No handles

**DIMENSIONS**



mm [in]

**DESCRIPTION**

Three spool directional control valve with parallel circuitry. 38 l/min [10 US gal/min] maximum flow. 207 bar [3000 psi] maximum pressure.

**TYPICAL APPLICATIONS**

Lawn and garden tractors, mowers, small tractor loader attachments, sweepers, utility trucks, trenchers, agricultural equipment

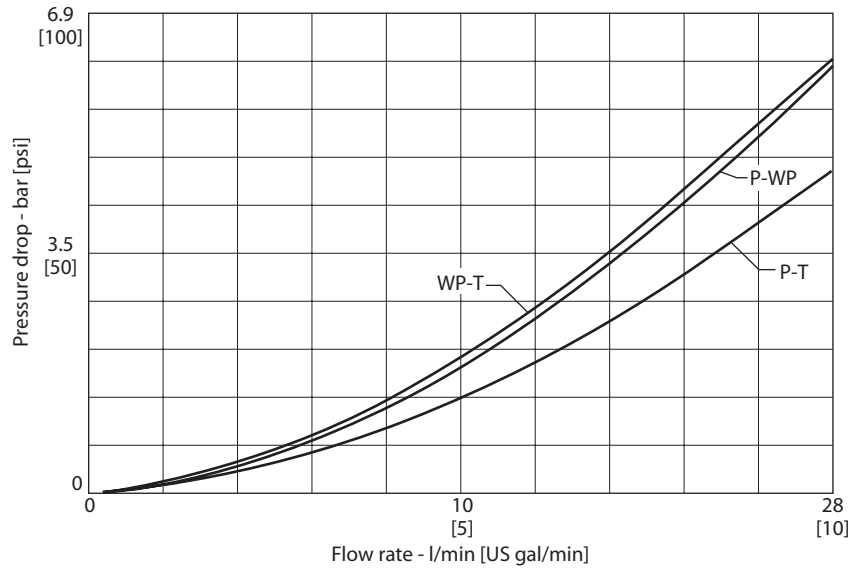
**STANDARD FEATURES**

- 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
- Load-check for each spool to prevent load drop before raise
- Float conversion (add float detent kit **A** to standard **T** spool)
- Open transition valve
- Individually boxed and labeled

**OTHER FEATURES  
AVAILABLE**

- Tang-end spool (for cable control)
- Unidirectional or bidirectional drop-in work port orifice plates

**PRESSURE DROP**



**TECHNICAL DATA**

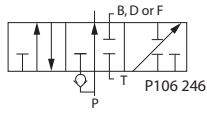
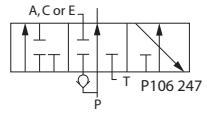
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Maximum tank line pressure	69 bar	[1000 psi]
Maximum oil flow	38 l/min	[10 US gal/min]
Spool travel in and out from neutral	4.8 mm	[0.19 in]
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Maximum lift check leakage at 69 bar [1000 psi] 21 mm <sup>2</sup> /sec (cSt) [102 SUS]	82 cm <sup>3</sup> /min	[5 in <sup>3</sup> /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 <sup>2</sup> /sec (cSt)	[45 SUS]
Maximum viscosity	440 mm <sup>2</sup> /sec (cSt)	[2000 SUS]
Fluid cleanliness per ISO 4406	19/16	
Typical spool effort: dry, full stroke	231 N	[52 lbf]
Weight	5.44 kg	[12 lbs]

**OPTIONS**

*Spool types*

Code	Symbol	Description
C		4-way, 3-position Closed center Work ports blocked to tank in neutral position
O		4-way, 3-position Motor open center Work ports open to tank in neutral position
T		4-way, 3-position Open center Work ports blocked to tank in neutral position

**OPTIONS**  
 (continued)

Code	Symbol	Description
V		3-way, 3-position Open center Work ports blocked to tank in neutral position (B, D, or F)
X		3-way, 3-position Open center Work ports blocked to tank in neutral position (A, C, or E)

*Spool action*

Code	Description	Code	Description
A	Spring centered, detent in float	N	Spring centered, detent in
D	3-position detent	S	Spring centered
L	Spring centered, detent out		

*Relief valve*

Code	Description
2	Direct-acting ball and spring <ul style="list-style-type: none"> <li>• 1 bar/l [50 psi/gal] rise</li> <li>• Standard setting 83 bar [1200 psi] crack pressure at 2.9 l/min [0.75 US gal/min]</li> <li>• Not for use on setting over 30 l/min [8 US gal/min]</li> <li>• Full flow setting at 138 bar [2000 psi]</li> </ul>
3	Pilot operated relief valve <ul style="list-style-type: none"> <li>• 0.4 bar/l [20 psi/gal] rise</li> <li>• No restrictions on setting up to 210 bar [3000 psi]</li> <li>• Standard setting 138 bar [2000 psi] crack pressure at 2.9 l/min [0.75 US gal/min]</li> </ul>

*Porting*

<b>Inlet/outlet</b>	3/4-16, SAE 8
<b>Locations available</b>	inlet-side, top, end outlet-top, end
<b>Work ports</b>	9/16-18, SAE-6

Power-beyond port machined and plugged. (Remove plug and install sleeve for power-beyond feature.)

*Handles*

Code	Description
C	C-hook kit
H	Standard handle with C-hook kit
P	Pivot-block handle kit
N	No handles

