



Trabon[®] MJ Series-Flo Divider Valves

DESCRIPTION

Trabon MJ Series-Flo Divider Valves are designed for lubricating systems serving machine tools and other comparable equipment.

In many installations the MSP divider valve serves as the Master divider assembly for an MJ system.

A typical MJ Series-Flo divider assembly (to the right) consists of an inlet section, end section and three to eight valve points. One manifold will serve up to a maximum of 16 lube points.

The MJ valve sections, which have built-in outlet check valves, are available in various output sizes. Each twin (T) section has 2 outlets, one from each side of the section. Each single (S) section can have an outlet on either side but the outlet on one side must be plugged for the section to operate properly.



FEATURES/ADVANTAGES

- Delivers metered amount of lubricant
- Compact design
- Simple to install
- Built-in outlet check valves

OPERATION

Operational sequence of an MJ Series-Flo divider valve assembly is defined as “progressive”. The term progressive means that each valve section completes its piston stroke, discharging a measured amount of lubricant to the bearing it serves before the following valve section operates. As long as lubricant is supplied under pressure to the inlet section of the divider assembly, valve sections will continue to operate in a progressive manner. Divider assemblies always follow a constant discharge pattern. Whenever lubricant flow ceases, the valving pistons will stop. When flow resumes it will start again at the same point in the discharge cycle.

| SPECIFICATION | |
|----------------------------|----------------------------------|
| Material | Plated Steel |
| Pressure (max) | 2,000 psi (137.89 bar) |
| Lubricant | Oil or Grease up to NLGI Grade 1 |
| Max Operating Temperature | 200°F (93°C) |
| Max Cycle Rate w/Cycle Pin | 60 cycles/min. |
| Torque: | |
| Tie Rod Nut | 12 ft lbs |
| Enclosure Plug | 11-13 ft lbs |
| Outlet Port Plug | 6-7 ft lbs |

ORDERING INFORMATION - VALVE SECTIONS

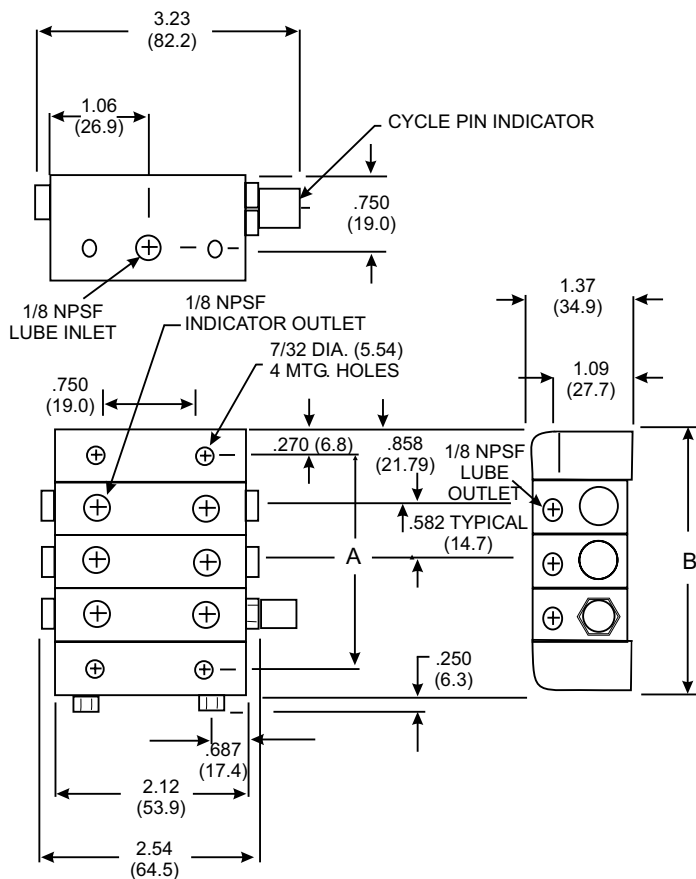
| Description | Part No. | Old Part No. |
|---|----------|--------------|
| 5S, 0.010 cu.in. (0.163 cu.cm ³)* | 562500 | 001-005-001 |
| 5T, 0.005 cu.in. (0.081 cu.cm ³)* | 562503 | 001-005-002 |
| 10S, 0.020 cu.in. (0.327 cu.cm ³)* | 562501 | 001-010-001 |
| 10T, 0.010 cu.in. (0.163 cu.cm ³)* | 562504 | 001-010-002 |
| 10S w/Cycle Indicator - RH, 0.020 cu.in. (0.327 cu.cm ³)* | 562508 | 001-010-601 |
| 10T w/Cycle Indicator - RH, 0.010 cu.in. (0.163 cu.cm ³)* | 562510 | 001-010-602 |
| 10S w/Cycle Indicator - LH, 0.020 cu.in. (0.327 cu.cm ³)* | 562512 | 001-010-611 |
| 10T w/Cycle Indicator - LH, 0.010 cu.in. (0.163 cu.cm ³)* | 562513 | 001-010-612 |
| 15S, 0.030 cu.in. (0.491 cu.cm ³)* | 562502 | 001-015-001 |
| 15T, 0.015 cu.in. (0.245 cu.cm ³)* | 562505 | 001-015-002 |
| 15S w/Cycle Indicator - RH, 0.030 cu.in. (0.491 cu.cm ³)* | 562509 | 001-015-601 |
| 15T w/Cycle Indicator - RH, 0.015 cu.in. (0.245 cu.cm ³)* | 562511 | 001-015-602 |
| 15S w/Cycle Indicator - LH, 0.030 cu.in. (0.491 cu.cm ³)* | – | 001-015-611 |
| 15T w/Cycle Indicator - LH, 0.015 cu.in. (0.245 cu.cm ³)* | 564205 | 001-015-612 |
| Inlet | 560643 | 510-992-002 |
| End | 560645 | 510-994-002 |
| 3 Section Tie Rod | 557515 | 510-999-030 |
| 4 Section Tie Rod | 557516 | 510-999-040 |
| 5 Section Tie Rod | 557517 | 510-999-050 |
| 6 Section Tie Rod | 557518 | 510-999-060 |
| 7 Section Tie Rod | 557519 | 510-999-070 |
| 8 Section Tie Rod | 557520 | 510-999-080 |
| Nut for Tie Rod | 556371 | 410-440-010 |

*Includes one gasket.

Note: The valve size is stamped on each valve section. The volume discharge per outlet after a complete cycle is indicated by cu.in. (cu.cm³)

ORDERING INFORMATION - ASSEMBLIES

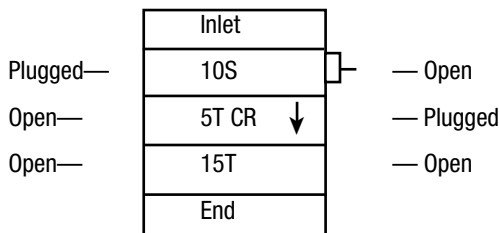
DIMENSIONS Inches/(mm) & WEIGHT



| DIVIDER VALVE | A—DIM. (APPROX.) | B—DIM. | WEIGHT |
|---------------|------------------|--------------|---------------------------|
| MJ-3 | 2.34 (59.4) | 2.87 (73.1) | 1 lb., 15 oz. (0.88 kg.) |
| MJ-4 | 2.92 (74.2) | 3.46 (87.9) | 2 lbs., 5 oz. (1.04 kg.) |
| MJ-5 | 3.50 (89.0) | 4.04 (102.6) | 2 lbs., 11 oz. (1.21 kg.) |
| MJ-6 | 4.08 (103.7) | 4.62 (117.4) | 3 lbs., 1 oz. (1.38 kg.) |
| MJ-7 | 4.66 (118.5) | 5.20 (132.2) | 3 lbs., 7 oz. (1.55 kg.) |
| MJ-8 | 5.25 (133.3) | 5.78 (147.0) | 3 lbs., 13 oz. (1.72 kg.) |

Note: Millimeter dimensions appear in parentheses below decimal figure in inches.

Divider Valves Sketch Example
MJ-3-10C-05TCR-15T
MJ-3 Divider Valve with Indicator and Internal Crossport



MJ - X - X - XX - X - XX

MANIFOLD OPTIONS

P - INSTALLATION OF PERFORMANCE INDICATORS IN ALL WORKING OUTLETS

NUMBER OF SECTIONS

- 3 - THREE
- 4 - FOUR
- 5 - FIVE
- 6 - SIX
- 7 - SEVEN
- 8 - EIGHT

SECTION CAPACITY

- 05 - .005 cu.in. (SEE NOTE 8)
- 10 - .010 cu.in.
- 15 - .015 cu.in.

TYPE OF VALVE BLOCK

- T - TWIN STANDARD
- S - SINGLE STANDARD - RH OUTLET
- L - SINGLE STANDARD - LH OUTLET
- B - TWIN W/CYCLE PIN RIGHT SIDE
- C - SINGLE W/CYCLE PIN RIGHT SIDE - RH OUTLET
- D - SINGLE W/CYCLE PIN RIGHT SIDE - LH OUTLET
- E - TWIN W/CYCLE PIN LEFT SIDE
- F - SINGLE W/CYCLE PIN LEFT SIDE - RH OUTLET
- G - SINGLE W/CYCLE PIN LEFT SIDE - LH OUTLET

*CROSSPORTING OPTION

- CR - RIGHT HAND SIDE
- CL - LEFT HAND SIDE
- CB - BOTH SIDES
- *OMIT WHEN NOT REQUIRED

NOTES:

1. Capacity sections are specified starting from inlet section, and must equal number of sections specified
2. When a capacity section is crossported, its outlet is plugged and output is diverted to the next valve farthest from inlet
3. Last capacity section, farthest from the inlet, cannot be crossported
4. Singled capacity section can be crossported on one side only
5. When capacity section is singled, the outlet not being used is plugged
6. Internal crossporting can be supplied on a capacity section only when supplied on a manifold assembly (if supplied as a loose unit, it can be field drilled only)
7. External singling and crossporting bars are available for field installation
8. Cycle Indicator Pin is not available on 0.005 capacity section
9. Indicate crossport option after capacity section if required, omit if not required
10. Divider systems should be limited to first and second stages only. **Third staging is not recommended.** Refer to bulletins L20101, L20105, and L20115 for further information on system design

ORDERING INFORMATION

| Description | Part No. | Old Part No. |
|--|-----------------|--------------|
| Cycle Indicator Repair Kit | 563948 | 560-002-987 |
| Replacement Gasket | 557514 | 510-998-002 |
| Cycle Switch (SPDT) & Bracket | 563272 | 510-599-000 |
| Cycle Switch (DPDT) & Bracket | 564357 | 510-577-000 |
| Singling Bars | 562915 | 189-000-050 |
| Crossporting Bars | 562914 | 189-000-040 |
| Divider Valve Installation Accessories | Bulletin L15126 | |
| Performance Indicators | Bulletin L15401 | |
| Additional Accessories & Parts | Bulletin L10161 | |

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