



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

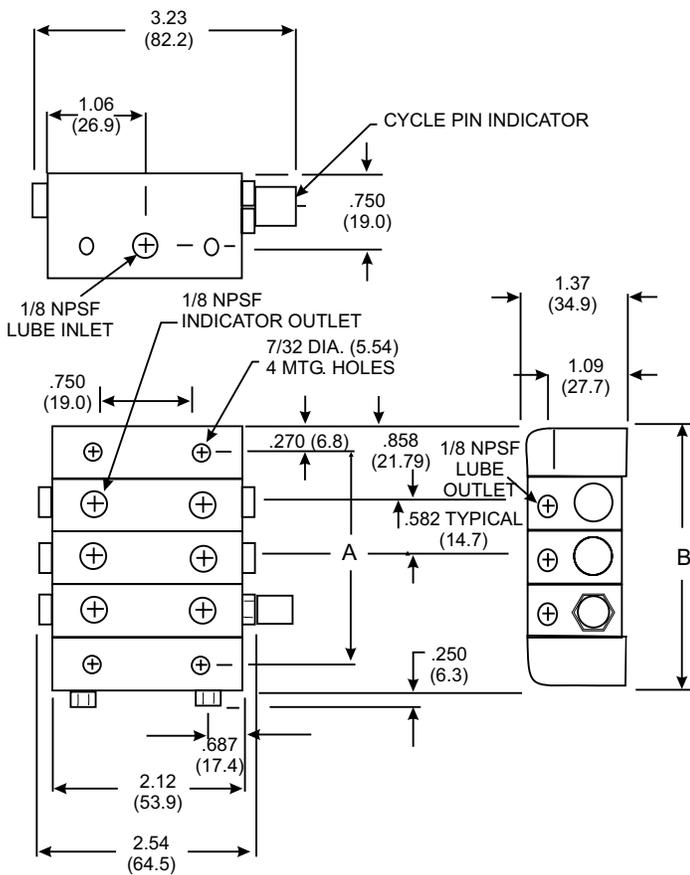
Description	Part No.	Old Part No.
5S, 0.010 cu.in. (0.163 cu.cm ³)*	562500	001-005-001
5T, 0.005 cu.in. (0.081 cu.cm ³)*	562503	001-005-002
10S, 0.020 cu.in. (0.327 cu.cm ³)*	562501	001-010-001
10T, 0.010 cu.in. (0.163 cu.cm ³)*	562504	001-010-002
10S w/Cycle Indicator - RH, 0.020 cu.in. (0.327 cu.cm 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

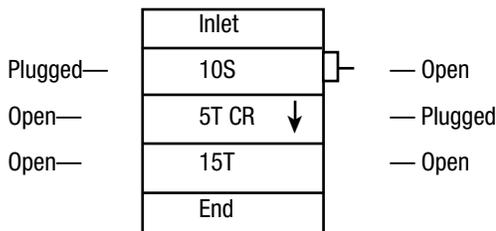
DIMENSIONS Inches/(mm) & WEIGHT



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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