



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 sections. 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.

SPECIFICATIONS

Material..... Plated Steel
 Pressure (max.)..... 2000 PSI (13789 Kpa)
 Lubricant.....Oil or Grease up to NLGI Grade 1
 Maximum Operating Temperature..... 200°F
 Maximum Cycle rate with Cycle Pin.. 60 cycles/min.



ORDERING INFORMATION - COMPONENTS

Valve Section Part Number	Valve Size + Description	Displacement *	
		cu. in.	cu. cm ³
** 001-005-001	5S	0.010	0.163
** 001-005-002	5T	0.005	0.081
** 001-010-001	10S	0.020	0.327
** 001-010-002	10T	0.010	0.163
** 001-010-601	10S w/Cycle Ind. RH	0.020	0.327
** 001-010-602	10T w/Cycle Ind. RH	0.010	0.163
** 001-010-611	10S w/Cycle Ind. LH	0.020	0.327
** 001-010-612	10T w/Cycle Ind. LH	0.010	0.163
** 001-015-001	15S	0.030	0.491
** 001-015-002	15T	0.015	0.245
** 001-015-601	15S w/Cycle Ind. RH	0.030	0.491
** 001-015-602	15T w/Cycle Ind. RH	0.015	0.245
** 001-015-611	15S w/Cycle Ind. LH	0.030	0.491
** 001-015-612	15T w/Cycle Ind. LH	0.015	0.245
510-992-002	Inlet	—	—
510-994-002	End	—	—
510-999-030	3 Section Tie Rod	—	—
510-999-040	4 Section Tie Rod	—	—
510-999-050	5 Section Tie Rod	—	—
510-999-060	6 Section Tie Rod	—	—
510-999-070	7 Section Tie Rod	—	—
510-999-080	8 Section Tie Rod	—	—
410-440-010	Nut for Tie Rod	—	—

+The size is stamped on each valve section.

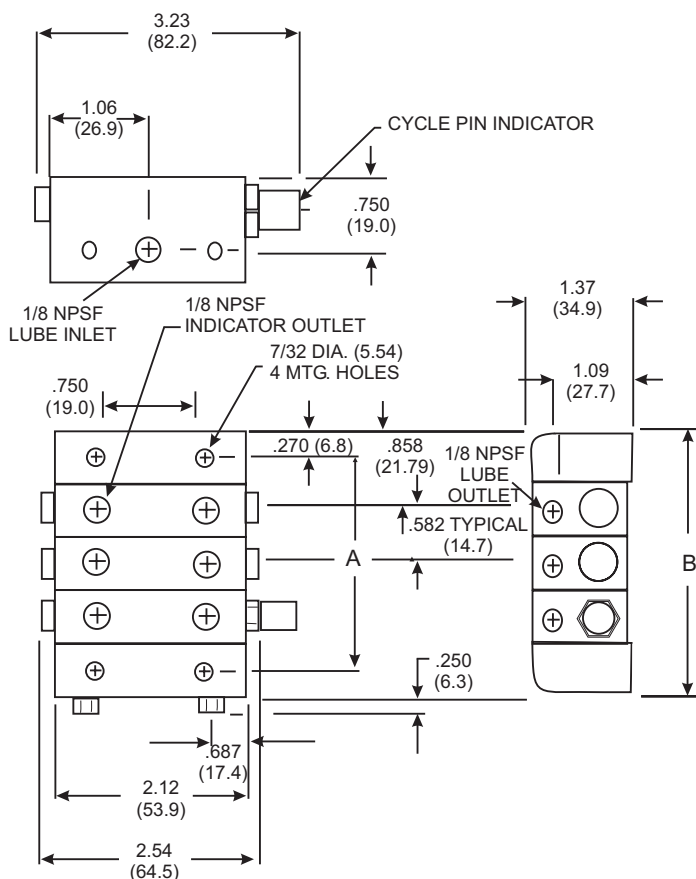
* This is the volume discharge per outlet after one complete cycle.

** Part number includes one gasket.

Torque Specifications

Tie Road Nut 12 ft. lbs.
 Enclosure Plug 11 -13 ft. lbs.
 Outlet Port Plug 6-7 ft.lbs.

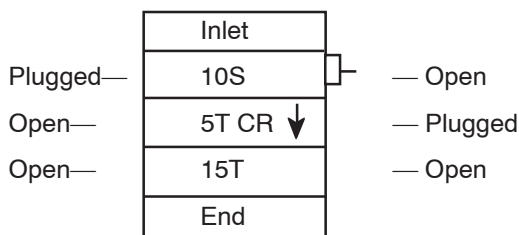
DIMENSIONS Inches/(mm) & WEIGHT



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



ORDERING INFORMATION - ASSEMBLIES

FAMILY CODE

MJ-XX-XXX-XX

MANIFOLD OPTIONS

P-Installation of Performance Indicators in all working outlets

NUMBER OF SECTIONS

3-Three 6-Six
4-Four 7-Seven
5-Five 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-Right Hand Outlet
L — Single Standard-Left Hand 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:

- Capacity sections are specified starting from inlet section, and must equal number of sections specified.
- When a capacity section is crossported, its outlet is plugged and output is diverted to the next valve farthest from inlet.
- Last capacity section, farthest from the inlet, cannot be crossported.
- Singled capacity sections can be crossported on one side only.
- When capacity section is singled, the outlet not being used is plugged.
- 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).
- External singling and crossporting bars are available for field installation.
- Cycle Indicator Pin is not available on .005 capacity section.
- Indicate crossport option after capacity section if required, omit if not required.
- Divider systems should be limited to first and second stages only. **Third staging is not recommended.** Refer to Trabon bulletins 20101, 20105, 20115 for further information on system design.

ACCESSORIES

Order Part No.

Cycle Indicator Repair Kit	560-002-987
Replacement Gasket	510-998-002
Cycle Switch (SPDT) & Bracket.....	510-599-000
Cycle Switch (DPDT) & Bracket.....	510-577-000
Singling Bars.....	189-000-050
Crossporting Bars.....	189-000-040
Divider Valve Installation Accessories.....	See Bulletin No. 15126
Performance Indicators.....	See Bulletin No. 15401
Additional Accessories and Parts.....	See Bulletin No. 10161

All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

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