



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.

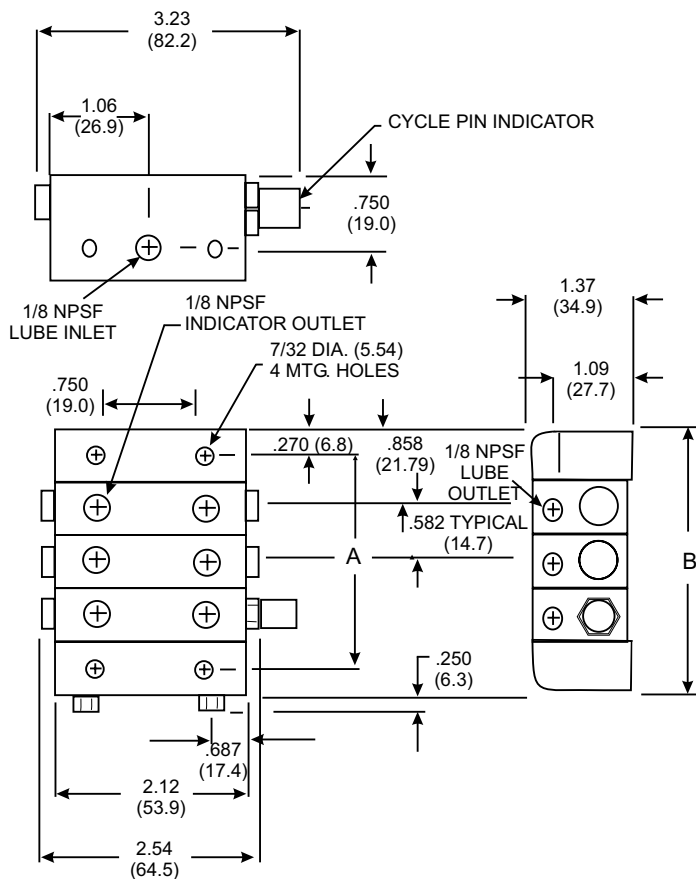
SPECIFICATION	
Material	Plated Steel
Pressure (max)	2,000 psi (137.89 bar)
Lubricant	Oil or Grease up to NLGI Grade 1
Max Operating Temperature	200°F (93°C)
Max Cycle Rate w/Cycle Pin	60 cycles/min.
Torque:	
Tie Rod Nut	12 ft lbs
Enclosure Plug	11-13 ft lbs
Outlet Port Plug	6-7 ft lbs

ORDERING INFORMATION-COMPONENTS

Valve Section	Valve Size +	Displacement *	
		cu.in.	cu.cm ³
Part No. (Old Part No.)	Description		
562500 (001-005-001)**	5S	0.010	0.163
562503 (001-005-002)**	5T	0.005	0.081
562501 (001-010-001)**	10S	0.020	0.327
562504 (001-010-002)**	10T	0.010	0.163
562508 (001-010-601)**	10S w/Cycle Ind RH	0.020	0.327
562510 (001-010-602)**	10T w/Cycle Ind RH	0.010	0.163
562512 (001-010-611)**	10S w/Cycle Ind LH	0.020	0.327
562513 (001-010-612)**	10T w/Cycle Ind LH	0.010	0.163
562502 (001-015-001)**	15S	0.030	0.491
562505 (001-015-002)**	15T	0.015	0.245
562509 (001-015-601)**	15S w/Cycle Ind RH	0.030	0.491
562511 (001-015-602)**	15T w/Cycle Ind RH	0.015	0.245
– (001-015-611)**	15S w/Cycle Ind LH	0.030	0.491
564205 (001-015-612)**	15T w/Cycle Ind LH	0.015	0.245
560643 (510-992-002)	Inlet	–	–
560645 (510-994-002)	End	–	–
557515 (510-999-030)	3 Section Tie Rod	–	–
557516 (510-999-040)	4 Section Tie Rod	–	–
557517 (510-999-050)	5 Section Tie Rod	–	–
557518 (510-999-060)	6 Section Tie Rod	–	–
557519 (510-999-070)	7 Section Tie Rod	–	–
557520 (510-999-080)	8 Section Tie Rod	–	–
556371 (410-440-010)	Nut for Tie Rod	–	–
+ The size is stamped on each valve section			
* This is the volume discharge per outlet after on complete cycle			
** Part Number includes one gasket			

ORDERING INFORMATION - ASSEMBLIES

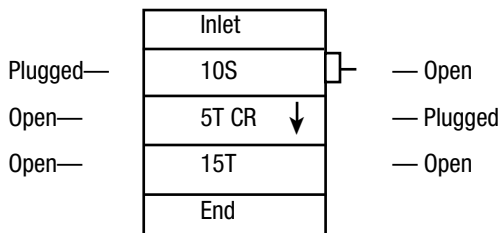
DIMENSIONS Inches/(mm) & WEIGHT



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:

- 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. (OLD)

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	562715 (189-000-050)
Crossporting Bars	562914 (189-000-040)
Divider Valve Installation Accessories	Bulletin 15126
Performance Indicators	Bulletin 15401
Additional Accessories & Parts	Bulletin 10161

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