



Trabon[®] Stainless Steel MJ Divider Valves

DESCRIPTION

Stainless Steel MJ Divider Valves (MJSS) are designed to be used in food equipment applications and other corrosive environments where steel or aluminum components cannot be used.

Each assembly consists of an inlet section, an end section and three to eight valve sections between end and inlet. From one to sixteen lube points can be served by one divider valve assembly. The valve sections are available in output capacities from 0.005 cu. in. (0.081 cm³) to 0.030 cu. in. (0.491 cm³) per cycle.

FEATURES

- Stainless steel construction resists corrosive effects of sanitizing fluids used on food processing equipment.
- Non-porous fluorocarbon polymer gasket provides an inert seal between the sections and meets FDA specifications for incidental food contact.
- Series progressive operation provides the opportunity to utilize feedback for system monitoring and control.
- Built-in check valves prevent lubricant in the outlet lines from re-entering the valve section and help to keep the lines full to assure accurate lube delivery.
- Designed for use with grease up to NLGI grade 1 or oil.

OPERATION

Stainless Steel MJ Divider Valves are positive displacement, series progressive valves. Each valve piston must complete its stroke, dispensing a measured amount of lubricant to the bearing it serves before the inlet flow is ported to the next valve piston.

The valves will continue to operate in this manner as long as fluid is supplied to the inlet of the divider valve assembly. When flow to the divider valve inlet ceases, the valve pistons will stop their movement. When flow resumes, the valve pistons will begin moving from the same point at which they stopped.

Because the valves are positive displacement, a blocked line downstream of a valve piston will prevent piston movement and create high pressure. When performance indicators are used on upstream nickel plated MSP or MXP valves, the blocked stainless steel MJ valve can be identified.



APPLICATION NOTES

Stainless steel performance indicators are not available for MJSS divider valves. However, nickel plated carbon steel indicators are available (see Literature No. 15401). If this is not suitable for the corrosive environment, blocked line indication is best achieved by using MJSS dividers only as secondaries, with an MSP or MXP master divider remotely located in a less corrosive environment. The master must be equipped with performance indicators in all alternate outlets. A high pressure indication leads to the secondary with the blocked line. Troubleshooting proceeds by removing outlet port plugs from the secondary until the blockage is located by pressurized lube flow.

SPECIFICATION	
Material	Stainless Steel
Pressure (max)	2,000 psi (13,800 Kpa)
Lubricant	Grease up to NLGI grade 1 or Oil
Max Operating Temperature	200°F (93°C)
Max Cycle Rate	60 cpm
Torque:	
Tie Rod Nut	12 ft lbs
Outlet Port Plugs	6-7 ft lbs
Enclosure Plug	11-13 ft lbs

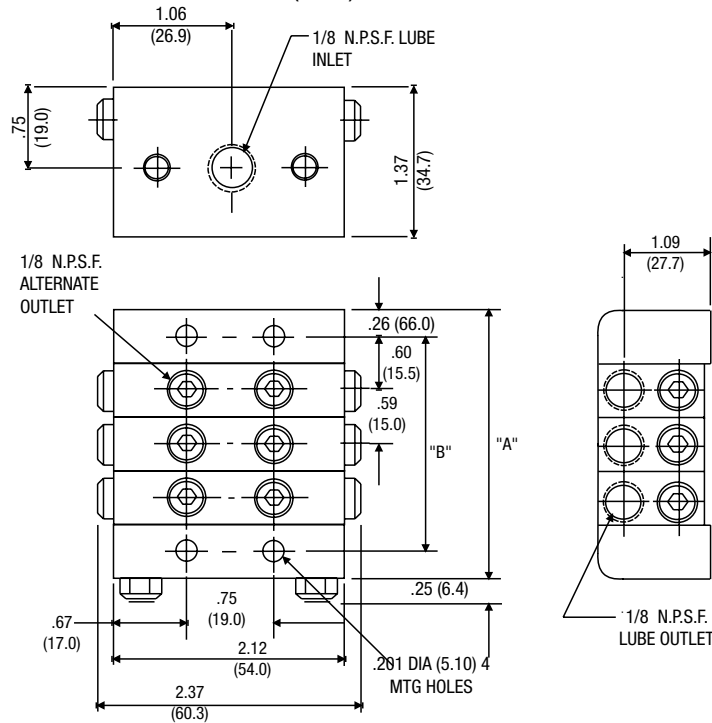
VALVE SECTION SIZES ¹	DISPLACEMENT ²	
	cu.in.	cm ³
5T	0.005	0.081
5S	0.010	0.163
10T	0.010	0.163
10S	0.020	0.327
15T	0.015	0.245
15S	0.030	0.491

NOTES:

¹This number is stamped on each valve section

²This is the volume discharge per working outlet after one complete cycle of the divider valve

DIMENSIONS Inches/(mm)



DIMENSION CHART

Divider Valve	A-Dim.	B-Dim.	Divider Valve	A-Dim.	B-Dim.
MJSS-3	2.87	2.34	MJSS-6	4.65	4.08
MJSS-4	3.46	2.92	MJSS-7	5.20	4.66
MJSS-5	4.04	3.50	MJSS-8	5.78	5.25

COMPONENT ORDERING

Description	Part No.	Old Part No.
5S Section*	562506	001-005-041
5T Section*	564203	001-005-042
10S Section*	562507	001-010-041
10T Section*	564204	001-010-042
15S Section*	—	001-015-041
15T Section*	—	001-015-042
Inlet	560644	510-992-012
End	561405	510-994-012
Gasket	557514	510-998-002
3 Section Tie Rod	558917	510-999-130
4 Section Tie Rod	—	510-999-140
5 Section Tie Rod	—	510-999-150
6 Section Tie Rod	—	510-999-160
7 Section Tie Rod	—	510-999-170

* Part number includes one gasket

Graco endorses the SAE recommendation of ISO 18/14 (ISO 4406) oil cleanliness for most bearing applications. Some high speed bearing may require cleaner oil. Consult the bearing manufacturer for recommendation.

TO ORDER COMPLETE DIVIDER VALVE ASSEMBLIES

FAMILY CODE

MJSS-X-XXX-XX

NUMBER OF SECTIONS

- 3 - Three
- 4 - Four
- 5 - Five
- 6 - Six
- 7 - Seven
- 8 - Eight

SECTION CAPACITY

- 05 - 0.005 cu. in. (0.081 cm³)
- 10 - 0.010 cu. in. (0.163 cm³)
- 15 - 0.015 cu. in. (0.245 cm³)

TYPE OF VALVE SECTION

- T - Twin
- S - Single, Right Hand Outlet
- L - Single, Left Hand Outlet

CROSSPORTING OPTION *

- CR - Crossport, Right Hand Side
- CL - Crossport, Left Hand Side
- CB - Crossport, 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. The last capacity section, farthest from the inlet, cannot be crossported.
4. Singled capacity sections can be crossported on one side only.
5. When a 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.
7. Indicate crossport option after capacity section if required, omit if not required.
8. Preferred mounting is with pistons in horizontal position with inlet at top.
9. Divider systems should be limited to first and second stages only. Third staging is not recommended. Refer to Trabon bulletins L20101, L20105 and L20115 for further information on system design.

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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