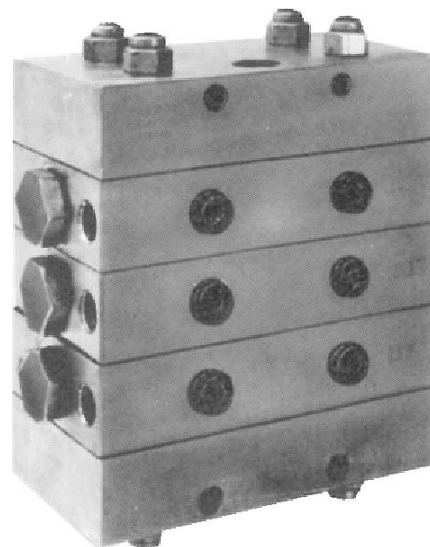


## DESCRIPTION

Trabon MX Series-Flo® Divider Valves are designed for heavy service and are ideal for large steel mill systems and similar applications. For modular version (MXP) having the same output capacities, see bulletin 10132.

A typical MX Series-Flo® Divider Valve Assembly (to the right) consists of an inlet section, end section and three to ten valve sections. The basic divider assembly will serve between three and twenty lube points.

The MX valve sections, which have built-in outlet check valves, are available in various output per piston cycle sizes (see specifications). Each twin (T) section has 2 outlets, one from each side of the section. Each single (S) section has 1 outlet on either side, but one outlet must be plugged to operate properly. For applications with continuous oil lubrication (Meter-Flo) use MXO Series-Flo® Divider Valves. This divider valve contains no outlet check valves.



## FEATURES/ADVANTAGES

- Delivers metered amount of lubricant.
- Economical and compact design.
- Lubricant outlets easily added or removed.
- Simple to install on new or existing machines.
- Built-in outlet check valves.
- Hone-fitted metering pistons.

## OPERATION

Operational sequence of an MX 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 .....                              | Steel (Zinc plated)         |
| Pressure (max.) .....                       | 3,000 PSI (207 bar)         |
| Lubricant .....                             | Oil or Grease               |
| Maximum Operating Temperature .....         | 200 °F (93 °C)              |
| Maximum Cycle Rate with Cycle Pin .....     | 60 cycles/min.              |
| MXO without Cycle Pin .....                 | 200 cycles/min.             |
| Net Weight (Divider Valve Assembly approx.) |                             |
| 3 section divider .....                     | 21 lbs., 6 oz. (9.69 kg.)   |
| 4 section divider .....                     | 25 lbs., 10 oz. (11.62 kg.) |
| 5 section divider .....                     | 29 lbs., 14 oz. (13.55 kg.) |
| 6 section divider .....                     | 34 lbs., 2 oz. (15.47 kg.)  |
| 7 section divider .....                     | 38 lbs., 6 oz. (17.40 kg.)  |
| 8 section divider .....                     | 42 lbs., 12 oz. (19.39 kg.) |
| 9 section divider .....                     | 47 lbs., 2 oz. (21.37 kg.)  |
| 10 section divider .....                    | 51 lbs., 8 oz. (23.26 kg.)  |

| Sizes +           | *(cu. in) | (cm <sup>3</sup> ) |
|-------------------|-----------|--------------------|
| 25T .....         | 0.025     | 0.409              |
| 25S or 50T .....  | 0.050     | 0.819              |
| 50S or 100T ..... | 0.100     | 1.639              |
| 75T .....         | 0.075     | 1.229              |
| 75S or 150T ..... | 0.150     | 2.458              |
| 100S .....        | 0.200     | 3.278              |
| 125T .....        | 0.125     | 2.048              |
| 125S .....        | 0.250     | 4.097              |
| 150S .....        | 0.300     | 4.917              |

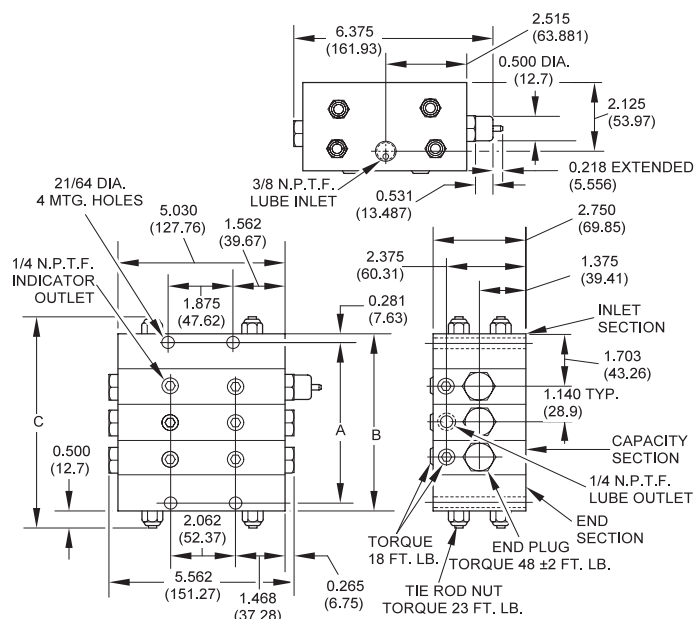
+ This number is stamped on each valve section.  
\* This is the volume discharge per outlet after one complete cycle.

### Torque Specifications

|                        |             |
|------------------------|-------------|
| Tie Rod Nut .....      | 23 ft. lbs. |
| Enclosure Plug .....   | 48 ft. lbs. |
| Outlet Port Plug ..... | 18 ft. lbs. |

**DIMENSIONS**

**Inches/(mm)**



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

| No. of Sections | A-DIM.          | B-DIM.          | C-DIM.          |
|-----------------|-----------------|-----------------|-----------------|
| 3               | 5.062 (128.57)  | 5.625 (142.87)  | 6.625 (168.27)  |
| 4               | 6.187 (157.14)  | 6.750 (171.45)  | 7.750 (196.85)  |
| 5               | 7.312 (185.72)  | 7.875 (200.02)  | 8.875 (225.42)  |
| 6               | 8.437 (214.29)  | 9.000 (228.60)  | 10.000 (254.00) |
| 7               | 9.562 (242.87)  | 10.125 (257.17) | 11.125 (282.57) |
| 8               | 10.687 (271.44) | 11.250 (285.75) | 12.250 (311.15) |
| 9               | 11.812 (300.02) | 12.375 (314.90) | 13.375 (339.72) |
| 10              | 12.937 (328.59) | 13.500 (342.90) | 14.500 (368.30) |

**ACCESSORIES**

- Field Sensitive Prox. Switch\*, 3-Pin w/o-ring ..... 527-005-520
- Field Sensitive Prox. Switch, 5-Pin w/o-ring ..... 527-005-190
- Field Sensitive Prox. Switch (10,000 psi),  
5-Pin w/O-Ring (See Note 12) ..... 527-007-140
- Note: Date codes K95 and earlier use gasket type seals. Date codes A96 and later use o-ring seals. Verify type of seal used before ordering a new or replacement proximity switch.
- Cycle Switch (SPDT) & Bracket ..... 510-599-000
- Cycle Switch (DPDT) & Bracket ..... 510-577-000
- Singling Bars ..... 189-000-060
- Crossporting Bars ..... 189-000-090
- Divider Installation Accessories ..... See Lit. No. 15126
- Performance Indicators ..... See Lit. No. 15401
- Proximity Switch ..... See Lit. No. 15600
- Accessories and Parts ..... See Lit. No. 10161
- \* Requires 3-Pin Mating Cable
- 6 Ft. Long ..... 570-999-080
- 12 Ft. Long ..... 570-999-090

**ORDERING INFORMATION**

**FAMILY CODE** **MXX-X X-XX X-XX**

**TYPE OF SERVICE** \_\_\_\_\_  
 S-Standard oil or grease equipped with built-in check valves  
 O-Continuous oil lubrication applications - is not equipped with check valves

\* **MANIFOLD OPTIONS** \_\_\_\_\_  
 P-Installation of performance indicators in all working outlets

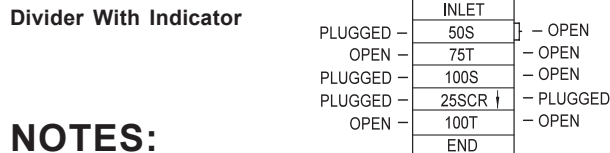
**NUMBER OF SECTIONS** \_\_\_\_\_  
 3-Three    5-Five    7-Seven    9-Nine  
 4-Four    6-Six    8-Eight    10-Ten

**VALVE CAPACITY** \_\_\_\_\_  
 25 - .025 cu. in. (See Note 8)    100 - .100 cu. in.  
 50 - .050 cu. in.    125 - .125 cu. in.  
 75 - .075 cu. in.    150 - .150 cu. in.

**TYPE OF VALVE BLOCK** \_\_\_\_\_  
 T-Twin  
 S-Single-RH Outlet  
 L-Single-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/Prox. Sw. Right Side  
 F-Single w/Prox. Sw. Right Side-RH Outlet  
 G-Single w/Prox. Sw. Right Side-LH Outlet  
 H-Twin w/Cycle Pin Left Side  
 J-Single w/Cycle Pin Left Side-RH Outlet  
 K-Single w/Cycle Pin Left Side-LH Outlet  
 M-Twin w/Prox. Sw. Left Side  
 N-Single w/Prox. Sw. Left Side-RH Outlet  
 P-Single w/Prox. Sw. Left Side-LH Outlet

\* **CROSSPORTING OPTION**  
 CR - Right Hand Side  
 CL - Left Hand Side  
 CB - Both Sides  
 \* Omit when not required.

**Divider Assembly Sketch Example**  
**MXS-5-50S-75T-100S-25SCR-100T**



**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 section, farthest from the inlet.
3. Last capacity section, farthest from the inlet, cannot be crossported.
4. Singled capacity sections 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 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 and Proximity Switch are not available on 0.025 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 Trabon bulletins 20101, 20105, and 20115 for further information on system design.
11. For information on the modular version (MXP) having the same output capacities refer to Trabon bulletin 10132.
12. Proximity Switch 527-007-140 is recommended for continuous operating press systems with high pressure shocks.



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