



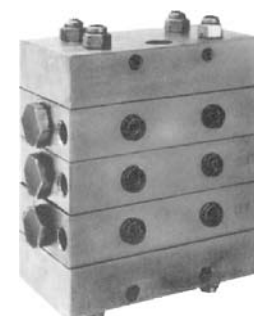
Trabon[®] MX Series-Flo Dividers

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) the built in outlet check valves may be removed.



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.

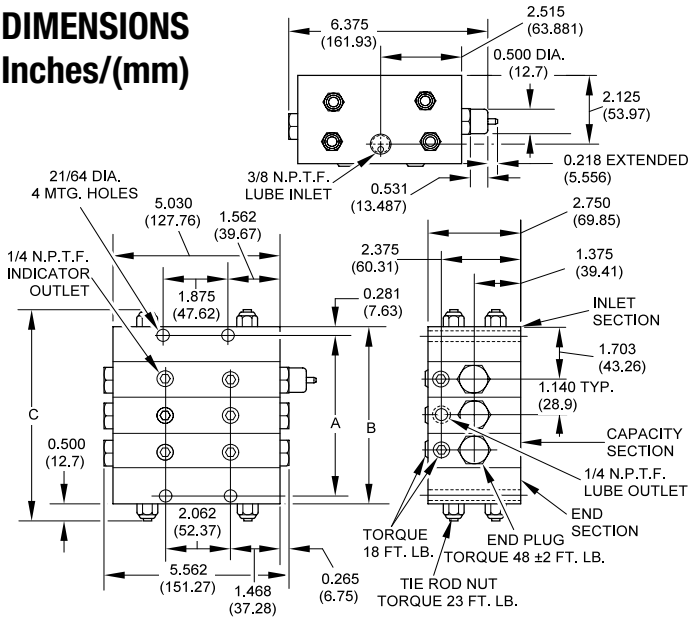
| SPECIFICATION | |
|--|--------------------------|
| Material | Plated Steel |
| Pressure (max) | 3,000 psi (207 bar) |
| Lubricant | Oil or Grease |
| Max Operating Temperature | 200°F (93°C) |
| Max Cycle Rate w/Cycle Pin | 60 cycles/min. |
| MX w/o Cycle Pin | 200 cycles/min. |
| Net Weight: (Divider 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) |
| Torque: | |
| Tie Rod Nut | 23 ft lbs |
| Enclosure Plug | 48 ft lbs |
| Outlet Port Plug | 18 ft lbs |

| Sizes + | *cu.in. | cm ³ |
|-------------|---------|-----------------|
| 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 150S | 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

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 | 13.937 (328.59) | 13.500 (342.90) | 14.500 (368.30) |

COMPONENT ORDERING

| Description | Part No. | Old Part No. |
|----------------------------------|--------------------|--------------|
| Cycle Switch (SPDT) & Bracket | 563272 | 510-599-000 |
| Cycle Switch (DPDT) & Bracket | 564357 | 510-577-000 |
| Singling Bars | 562916 | 189-000-060 |
| Crossporting Bars | 562917 | 189-000-090 |
| Divider Installation Accessories | See Lit No. L15126 | |
| Performance Indicators | See Lit No. L15401 | |
| **Proximity Switch | See Lit No. L15600 | |
| Accessories & Parts | See Lit No. L10161 | |

**Note: Date codes K95 and earlier use gasket type seals. Date codes A96 and earlier late use o-ring seals. Verify type of seal used before ordering a new or replacement proximity switch.

ORDERING INFORMATION

| | |
|---|---|
| MANIFOLD | MX - X - XX - XXX - X - XX |
| P - INSTALLATION OF PERFORMANCE INDICATORS IN ALL WORKING OUTLETS | |
| NUMBER OF SECTIONS | 03 - THREE 06 - SIX 09 - NINE 04 - FOUR 07 - SEVEN 10 - TEN 05 - FIVE 08 - EIGHT |
| VALVE CAPACITY | 025 - .025 cu.in. (SEE NOTE 8) 100 - .100 cu.in. 050 - .050 cu.in. 125 - .125 cu.in. 075 - .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 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 |
| † CROSSPORTING OPTION | CR - RIGHT HAND SIDE CL - LEFT HAND SIDE CB - BOTH SIDES † OMIT WHEN NOT REQUIRED |

Divider Assembly Sketch Example
MX-5-50C-75T-100S-25SCR-100T
Divider With Indicator

| | | |
|-----------|---------|-----------|
| | INLET | |
| PLUGGED - | 50S | - OPEN |
| OPEN - | 75T | - OPEN |
| PLUGGED - | 100S | - OPEN |
| PLUGGED - | 25SCR † | - PLUGGED |
| OPEN - | 100T | - OPEN |
| | END | |

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 section, farthest from the 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 and Proximity Switch are not available on 0.025 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 L20101, L20105, and L20115 for further information on system design.
- For information on the modular version (MXP) having the same output capacities refer to Trabon bulletin L10132.

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.

Contact us today!

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