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 L10132.

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.

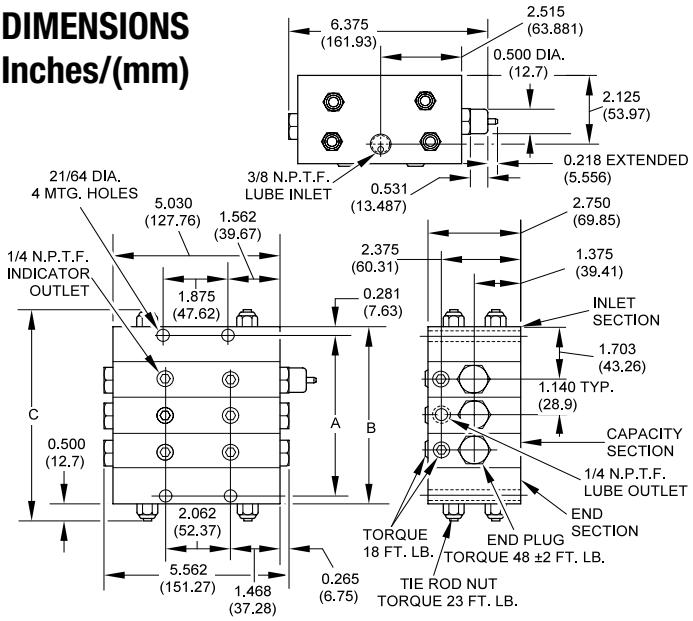
OPERATION

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.

SPECIFICATIONS		
Material	Plated Steel	
Pressure (max)	3,000 psi (207 bar)	
Lubricant	Oil or Grease	
Max Operating Temperature	200ºF (93ºC)	
Max Cycle Rate w/Cycle Pin	60 cycles/min.	
MX w/out Cycle Pin	200 cycles/min.	
Net Weight: (Divider Valve Assembly approx.)		
3 Section Dlvider	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	30 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

MX - [X] - [XX] - [XXX] - [X] - [XX]

MANIFOLD

P - INSTALLATION OF PERFORMANCE INDICATORS IN ALL WORKING OUTLETS

NUMBER OF SECTIONS

03 - THREE
04 - FOUR
05 - FIVE
06 - SIX
07 - SEVEN
08 - EIGHT
09 - NINE
10 - TEN

VALVE CAPACITY

025 - .025 cu.in. (SEE NOTE 8)
050 - .050 cu.in.
075 - .075 cu.in.
100 - .100 cu.in.
125 - .125 cu.in.
150 - .150 cu.in.

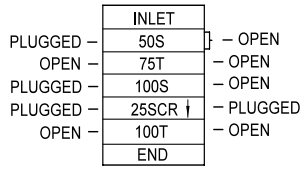
TYPE OF VALVE BLOCK

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



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 capacity section only when 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 L20101, L20105, and L20115 for further information on system design.
11. For information on the modular version (MXP) having the same output capacities refer to Trabon bulletin L10132.

Contact us today!

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