LIONOIL
ANTWERP LION OIL WORKS N.V.
Vlaamsekaai 2-5 B-2000 Antwerpen
T.: +32 (0)3 237 00 45 F.: +32 (0)3 216 21 92

PROGRESSIVE DIVIDER VALVE

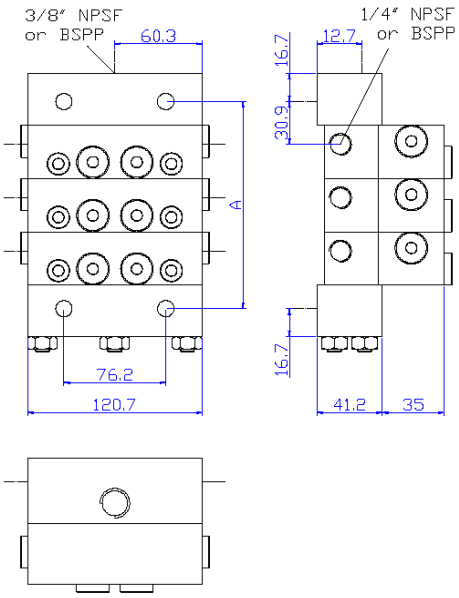
MXP MODULAR DIVDER VALVES

Maximal flexibility and reliability

The progressive divider valves are the core of our progressive lubrication systems. In the MXP divider, the exact amount of lubricant is measured in the metering elements and dispensed to the lubrication points. With MXP divider valves, monitoring of the complete system is possible with just 1 switch

- Oil and grease
- Max. pressure 207 bar
- Up to 20 outlets/divider valve
- Viton O-seals
- NPSF or BSPP tread (SAE as option)
- Internal check valves
- Modular construction
- Complete monitoring possible

Trabon® MANUFACTURED BY GRACO



Specifications

Lubricant	oil or grease
P_{max}	207 bar (3000 PSI)
Max. flow-ratio	24 :1 (in 1 divider)
Max. Cycle speed	200/min
	60/min (cycle pin)
Material	
- Housing	steel (corrosion protected)
- seals	Viton
T_{max}	177°C
Torque specifications	
- Tie rod nut	8-12 Nm
- Section mounting screw	16-17 Nm
- Indicator port plug	16-20 Nm
- Enclosure plug	62-68 Nm

Dimentions and weight

	MXP3	MXP4	MXP5	MXP6	MXP7	MXP8	MXP9	MXP10
A (mm)	135.9	170.1	204.4	238.6	272.8	307.1	341.3	375.6
m (kg)	8.3	10.2	12.2	14.2	16.2	18.1	20.1	22.1

BTW BE 0457 940 562 RPR Antwerpen www.lionoil.be
Erkenningsnr. K(C11)/K3(C12) Aannemer registr. 457.940.562/022701
Fortis 220-0030562-43 IBAN BE66 2200 0305 6243 SWIFT GEBA BE BB 18A

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Cycle monitoring

These mechanical and electrical units sense the divider valve piston's action, and transform it into a mechanical or electrical signal for accurate control and monitoring of lube cycles.

Cycle-indicator pin

Valve sections 50 up to 150 are available with a factory-installed indicator pin which moves in and out as lubricant passes through the valve. One movement per cycle.

Magnetic visual cycle-indicator

A magnetic red marked piston slides in a black sleeve visible through a clear sleeve. The magnet moves with the cycling piston, providing a clear indication of lube cycles.

Cycle-indicator switch

Used in conjunction with the cycle indicator pin at cycle rates not exceeding 60 cpm, it provides an electrical signal to the system controller which counts cycles to monitor and verify completion of the lube cycle.

Field-sensitive proximity switch

A ceramic-magnet switch for grease or oil systems up to 200 cpm at pressure up to 3,500 psi (241 bar), accurately signals piston cycles, and is ideal for high-cycle applications.

Field-sensitive proximity switch IECEx

A ceramic-magnet switch certified IECEx for use in hazardous areas.

IECEx	Ex ia IIC T6 Ga Ex ia IIIC T85°C Da

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System protection / performance indicators

These vital safeguards react to excess lube pressure when points or lines become blocked. Installed in indicator ports on the working piston sections, they quickly identify the affected lines.

Automatic Relief-to-Atmosphere Indicator

Spring-loaded piston unseats when blockage occurs, venting lubricant to atmosphere each time the piston cycles. This allows system to lubricate unaffected points. When the blockage is cleared, the indicator reseats automatically

Manual Reset Indicator with Memory

System blockage triggers a spring-loaded piston to display an indicator. Since there is no relief, pressure backs up in the system and the system stops, allowing a controller to alarm. After correcting the problem, the indicator pin is reset manually. This creates a visual notice of a temporarily overpressure.

Rupture indicator

The high pressure from lube line blockage causes a disc to rupture. They are available as reset- or relieve-indicator. The high pressure backs up through the system and can be a trigger for the controls. When the fault is corrected, the disc must be replaced. Rupture indicators, as the rupture-disks in different pressure-ranges, are only available on special

Order-references MXP-divider

Base	NPSF	BSPP
Inlet	2018-0871	2018-0884
Subplate	2018-0873	2018-0883
End-section	2018-0872	
Crossport right	2018-0888	
Crossport left	2018-0887	

Elements	Flow/ outlet (cm^3)	Orderref.	Orderref. Cycluspin (right)
25T	0.410	2018-0389	-
25S	0.820	2018-0395	-
50T	0.820	2018-0390	2018-0401
50S	1.639	2018-0396	2018-0406
75T	1.230	2018-0391	2018-0402
75S	2.459	2018-0397	2018-0407
100T	1.639	2018-0392	2018-0403
100S	3.278	2018-0398	2018-0408
125T	2.049	2018-0393	2018-0404
125S	4.098	2018-0399	2018-0409
150T	2.459	2018-0394	2018-0405
150S	4.917	2018-0400	2018-0410
BYPASS	0.000	2018-0411	-

Acc. MXP divider	Orderref.
Tierod + nut MXP3	2018-0874
Tierod + nut MXP4	2018-0875
Tierod + nut MXP5	2018-0876
Tierod + nut MXP6	2018-0877
Tierod + nut MXP7	2018-0878
Tierod + nut MXP8	2018-0879
Tierod + nut MXP9	2018-0880
Tierod + nut MXP10	2018-0881
Nut tie rod	2018-0452
Mounting screw valve section	2018-0465
Piston enclosure plug	2018-0479
Indicator port plug	2018-0886
MXP O-seal VITON	2018-0882
Mounting screw section + crossport	2018-0466

Order-referentces control-options

Description	Orderref.
Cycle pin	See table above
Cycle switch	2018-0686
Magnetic cycle indicator	2018-0669
***** Field sensitive proximity switches *****	
Field sensitive proximity switches 3 pin	2018-0835
Connection cable 3 pin length = 1.9 m	2018-0960
Connection cable 3 pin length = 3.7 m	2018-0962

Description	Orderref.
***** Relief-indicators *****	
50 bar (750 psi)	2018-0560
70 bar (1000 psi)	2018-0561
105 bar (1500 psi)	2018-0563
140 bar (2000 psi)	2018-0564
170 bar (2500 psi)	2018-0564
205 bar (3000 psi)	2018-0566
***** Reset-indicators *****	
15 bar (250 psi)	2018-0648
35 bar (500 psi)	2018-0649
50 bar (750 psi)	2018-0650
70 bar (1000 psi)	2018-0651
105 bar (1500 psi)	2018-0653
140 bar (2000 psi)	2018-0654
170 bar (2500 psi)	2018-0655

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Order-references complete dividers

XXX – XXX – X – XX – XXX – X – XX

Series of divider

MXP	Standard divider

Inlet / Outlet connection type

NPT	Dryseal Pipe Thread
BSP	British Parallel met O-ring

Accessories

X	Non
P	Performance indicators on each outlet

Sections

3	Three	7	Seven
4	Four	8	Eight
5	Five	9	Nine
6	Six	10	Ten

Metering sections

BP	Bypass	
25	.025 cu.in	(.410 cm³)
50	.050 cu.in	(.820 cm³)
75	.075 cu.in	(1.230 cm³)
100	.100 cu.in	(1.639 cm³)
125	.125 cu.in	(2.049 cm³)
150	.150 cu.in	(2.459 cm³)

Type valve block

T	Double outlet
S	Single outlet (right)
L	Single outlet (left)
B	Double outlet + cycle pin right
C	Single outlet right + cycle pin right
D	Single outlet left + cycle pin right

Crossport options

CR	Crossport right
CL	Crossport left
CB	Crossport both

* omit when not required

Nota's

- • Right/Left Hand determined when viewing front of divider valve assembly. (Divider valve assembly placed on flat surface with inlet at top.)
- Valves are specified starting from inlet section.
- When a valve is crossported, its outlet is plugged and diverted to the next valve away from inlet.
- The last valve in a divider assembly, farthest from inlet, cannot be crossported.
- Single valves can be crossported on one side only.
- When a valve is a single, only one outlet in its subplate can be used, the other outlet must be plugged.
- Cycle pins are available on MX (50, 75, 100, 125, and 150) valves only.
- All divider valve assemblies must have a minimum of 3 working valves.
- A bypass block cannot be supplied on a divider valve with 3 subplates.
- A bypass block is not a working valve.
- For ATEX applications, contact us.