



LUBE
Control

Lube Control Pty Ltd



Centralised Lubrication System for Seeders

Centralised Lubrication Systems for Seeders

Using the Ciso GT Plus Pump and the DXF Progressive Divider Valve

With Lube Control's Centralised Lubrication System (CLS) for Seeders using Ciso GT Plus pump you will:

- Extend tine, coulter and pivot points life by ensuring all points receive the right amount of grease frequently and reliably.
- Improve machine uptime by lubricating continuously during operation, removing the need for manual greasing
- Have safer operation with minimal waste, no over lubrication, and reduced dirt ingress
- Have a consistent performance across harsh environments and continuous duty applications.

THE PRINCIPLE

The GT Plus pump is a small, strong and versatile lubrication pump that is the heart of the progressive lubrication system that allows grease (up to NLGI 2) to be distributed accurately to all points of the seeder. The GT Plus pump is designed for pre-programmed lubrication as required. The pump exerts 4ml/minute per pumping element. A total of 5 pumping elements can be inserted into the GT Plus pump. The pumping elements exert up to 300bar pressure that allows lubrication points further than 20m to be lubricated.

Each pumping element is connected to DXF progressive divider valves. This divider valve contains a series of spools allowing a predetermined quantity of grease to be discharged. These spools work in a progressive manner to hinder any lubricant from taking the path of least resistance. A "master" DXF divider valve is used to feed several secondary DXF divider valves mounted one each fold up section. Designed correctly the GT Plus pump can lubricate over a hundred grease points.

The system is easy to control and program with a built-in timer that allows a variety of output settings. Further options allow the system to be monitored visually or by an electrical switch on the main divider valve.



GT PLUS TECHNICAL CHARACTERISTICS

Number of Pumping Elements	Up to 5
Flow per pumping element	4ml/min
Operating Pressure per pumping element	300bar (30MPa)
Outlet connection	6mm compression fitting
Reservoir capacity	2, 4, 6, 8, 12L
Lubricants	Oil to NLGI 000, 00, 0, 1, 2
Operating temperature	-50°C to +90°C
Manual override	Yes
Programming	Integrated control timer
Monitoring	Low Level alarm and over pressure relief valve



DXF PROGRESSIVE DIVIDER VALVE TECHNICAL CHARACTERISTICS

TECHNICAL INFORMATION	
Number outlets	1 to 24
Discharge for each outlet	0.025ml - 0.045ml - 0.075ml - 0.105ml
Maximum pressure	300bar (30Mpa)
Number of cycles	Max. 300 cycles/min
Inlet thread	1/8BSP
Outlet thread	M10x1.0
Singling screw installed	Yes
Material	Zinc-nickel
Visual monitoring	Optional
Electrical monitoring	Optional

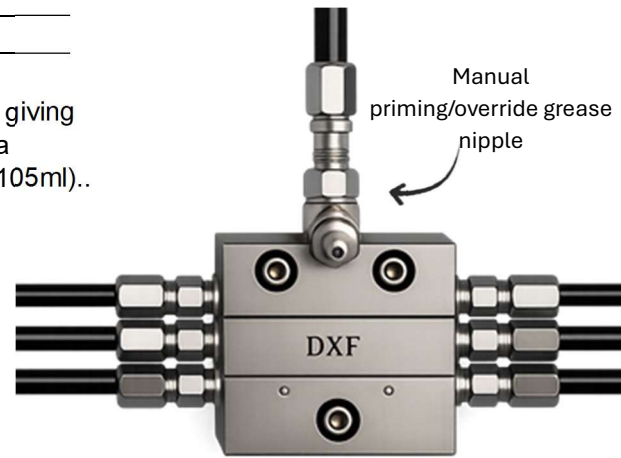
The DXF progressive grease divider valve is a sectional metering device giving flexibility to correctly design a CLS for every machine. Each section has a predetermined outlet of lubricant (either 0.025ml - 0.045ml - 0.075ml - 0.105ml).. Each progressive divider valve comprises:

- 1 x Inlet section
- Up to 10 x Middle section
- 1 x Tail sections

All sections are tightened via tie rods.

Operating principle of a DXF grease divider valve

1. Grease enters DXF inlet section
2. The Internal spools move in a fixed sequence
3. Each section has an arrangement of spools
4. When grease pushes the first spool, it completes its stroke and sends grease to its outlet.
5. Only after one spool finishes its stroke does the next spool begin moving
6. Each spool dispenses only the predetermined amount of grease
7. When the GT Pump cycles again, the spool continue from where they left off



ORDERING DETAILS

CLS-SEEDER-80PTS-4KG	Complete Lube System to suit Seeder with 80 grease points, 4kg, 12V
CLS-SEEDER-100PTS-4KG	Complete Lube System to suit Seeder with 100 grease points, 4kg, 12V
CLS-SEEDER-120PTS-4KG	Complete Lube System to suit Seeder with 120 grease points, 4kg, 12V
CLS-SEEDER-140PTS-4KG	Complete Lube System to suit Seeder with 140 grease points, 4kg, 12V
CLS-SEEDER-160PTS-4KG	Complete Lube System to suit Seeder with 160 grease points, 4kg, 12V



Parts List	
1	CISO GT Pump 12V, 4L with pump outlet and safety/relief valve
2	10m electrical cable
3	Mounting bracket
4	8.6mm High pressure grease hose
5	6mm high pressure grease tube
6	9mm Spiral guard
7	Master and Secondary divider valves
8	Fittings, mounting screws, clamps
9	Cable ties
10	Drawing/layout of design

ACCESSORIES

80536	CISO GT Plus Pumping Element Suit pump 4ml/min
5FJ01	CISO GT Pump outlet safety/relief valve (35Mpa)
2000056	CISO Pump outlet pressure gauge 400Bar
HPH8.6GF	High pressure hose 8.6mm/m grease filled (10m increments)
PT6MMGF	High pressure tube 6mm grease filled (10m increments)

For complete spare parts list see www.lubecontrol.com.au



Note:

Although Lube Control CLS system for Seeders is designed for NLGI 2 grease, it is recommended NLGI 1 or NLGI 0 grease is large systems over 100 grease points. This ensures good flow throughout the system. Lube Control offers greases and oils and can recommend the correct lubricant for you.



Providing Lubrication Solutions!