



**The Future of Centralised Lubrication  
for On Road Vehicles is here!**



# Automated Centralised Lubrication Systems for Road Vehicles

Introducing the Ciso GT Plus Pump and the DXF Progressive Divider Valves

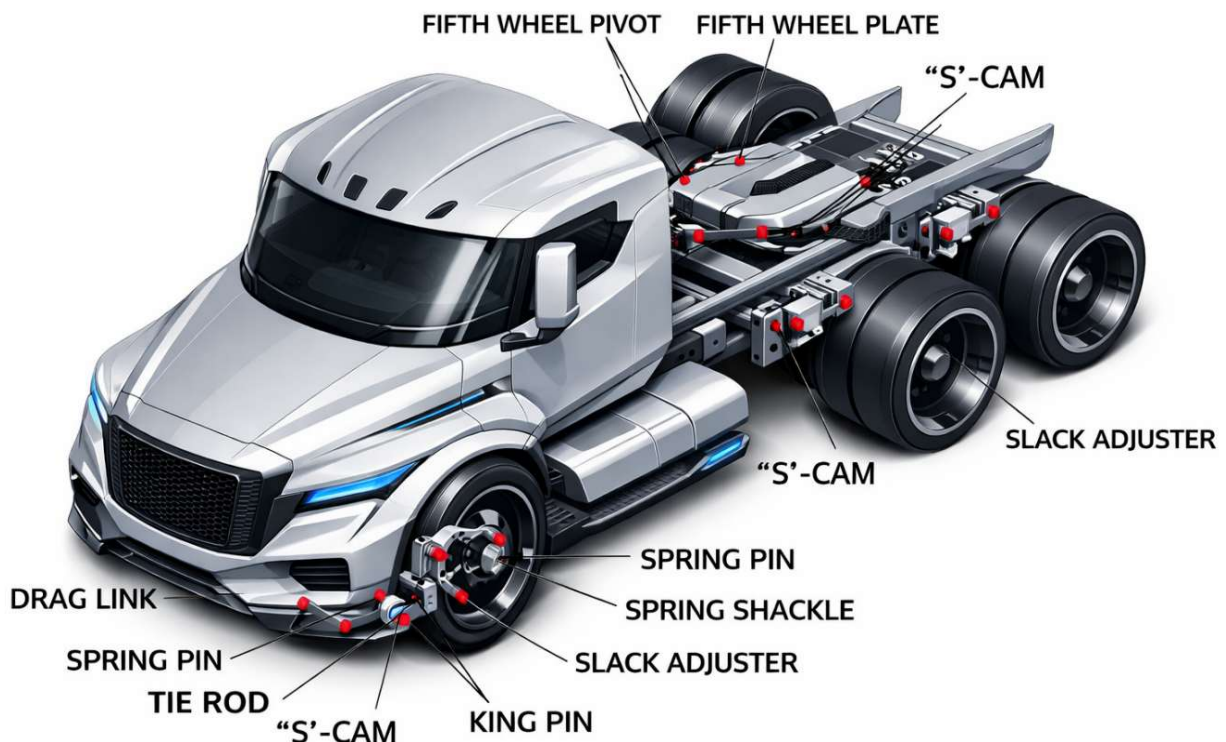
Get ahead of the competition by greasing your truck automatically with Lube Control's Centralised Lubrication System (CLS) incorporating the Ciso GT Plus pump. You will:

- Protect your rotating equipment every time it operates regardless of how busy you or your team are
- Apply small, frequent, and correct amounts of grease to the correct grease point every time.
- Have peace of mind every grease point is accounted for; no more missing nipples
- Save money and make money by ensuring efficiency is maximised and downtime is minimised



**CisoLube**<sup>®</sup>  
LUBRICATION SYSTEM

The GT Plus system ensures all these points are greased!



## 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 oil or grease (up to NLGI 2) to be distributed accurately to all the points of a vehicle. The GT Plus pump is designed for intermittent or continuous operation to provide regular pre-programmed lubrication as required. The pump exerts 4ml/minute per pumping element. The pumping elements exert up to 300bar pressure that allows grease points further than 20m to be lubricated. Up to 5 pumping elements can be installed.

Each pumping element can be connected to DXF progressive divider valves. A "master" DXF divider valve can be used to feed several secondary DXF divider valves. Designed correctly the GT Plus pump can lubricate over a hundred grease points.

Each DXF progressive divider valve (up to 24 outlets) contains a series of spools allowing a predetermined quantity of grease to be discharged. These spools work in a progressive manner to hinder any grease from taking the least path of resistance.

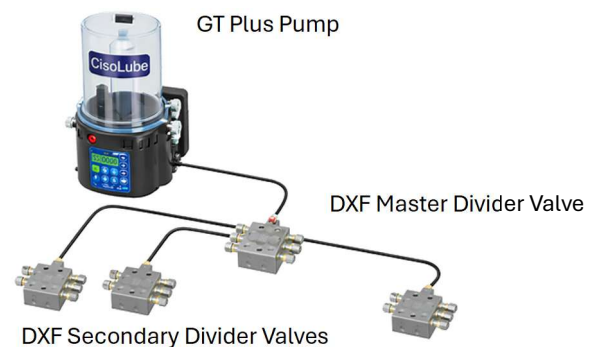
The system is easy to control and program with a built-in timer that allows a variety of output settings. Further options allow the system to be monitored by an electrical switch on the main divider valve.

The GT Plus options are:

- Various sizes; 2L, 4L, 8L and 12L
- 12V, 24V or 240V
- Oil or grease.

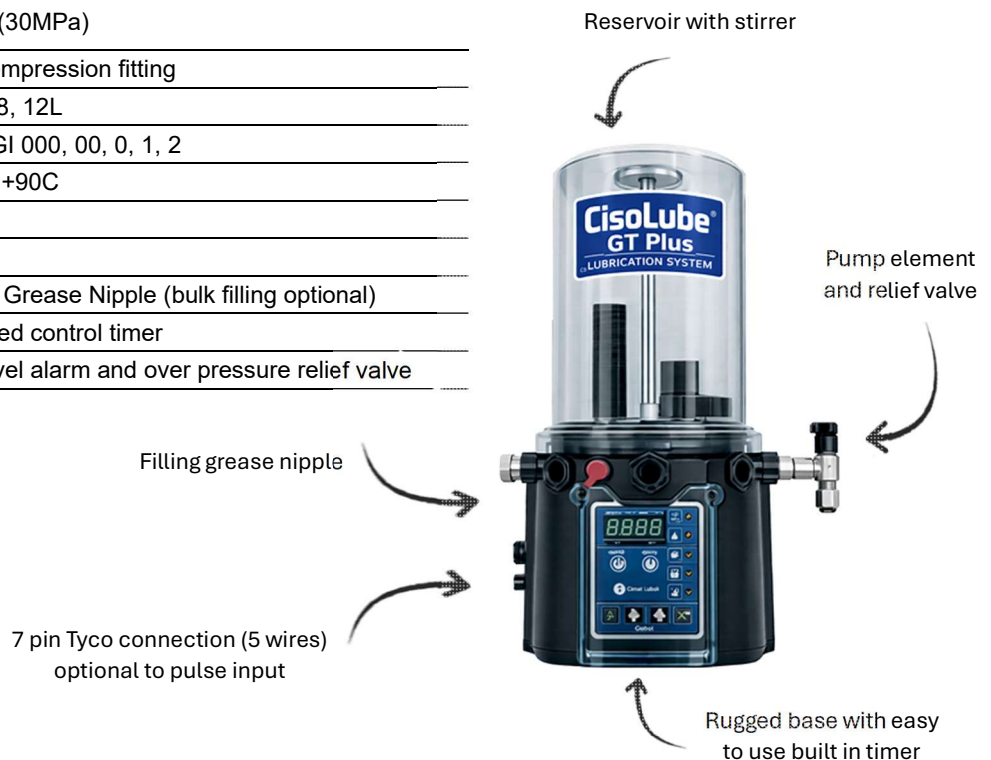
The GT Plus comes with:

- One pumping element (4ml/min)
- Pressure relieve valve



## GT PLUS PUMP TECHNICAL CHARACTERISTICS

| TECHNICAL INFORMATION                  |   |
|--|---|
| Number of Pumping Elements             | Up to 5   |
| Flow per pumping element               | 4ml/min<br>(reduce to 3ml, 2ml with adjustment washers) |
| Operating Pressure per pumping element | 300bar (30MPa)  |
| Outlet connection                      | 6mm compression fitting                                 |
| Reservoir capacity                     | 2, 4, 6, 8, 12L   |
| Lubricants                             | Oil, NLGI 000, 00, 0, 1, 2                              |
| Operating temperature                  | -50C to +90C  |
| Built in stirrer                       | Yes   |
| Manual override                        | Yes   |
| Filling Nipple                         | 1/4BSP Grease Nipple (bulk filling optional)            |
| Programming                            | Integrated control timer                                |
| Monitoring                             | Low Level alarm and over pressure relief valve          |



## ORDERING CODE FOR GT PUMP

**Example: CISO GT PLUS, 4L reservoir, 24VDC, with timer and low level for grease**

**Part Number: LC-GT-4L-24V-TMR-LL-G**

Ordering code:

LC - GT -  -  -  -  -

**Australian Prefix**

**Reservoir – Transparent Acrylic**

|               |     |
|---------------|-----|
| 2L Reservoir  | 2L  |
| 4L Reservoir  | 4L  |
| 6L Reservoir  | 6L  |
| 8L Reservoir  | 8L  |
| 12L Reservoir | 12L |

**Voltage**

|        |      |
|--------|------|
| 12VDC  | 12V  |
| 24VDC  | 24V  |
| 240VAC | 240V |

**Timer**

|               |      |
|---------------|------|
| With Timer    | TMR  |
| Without Timer | NTMR |

**Low Level**

|                   |     |
|-------------------|-----|
| With Low Level    | LL  |
| Without Low Level | NLL |

**Lubricant type**

|        |   |
|--------|---|
| Grease | G |
| Oil    | O |

All Australian GT Plus come with a 7 Pin Tyco Bayonet Plug.

**SPARE PARTS**

|       |   |
|-------|---|
| 12710 | Wiring assembly 5 wires, 10m – “Ciso GT” (7 Pin Tyco) |
| 80536 | GT Plus Pumping Element Suit pump 4ml/min             |
| 5FJ01 | CISO GT Pump outlet safety/relief valve (35Mpa)       |



12710



80536



5FJ01

## DXF PROGRESSIVE DIVIDER VALVE TECHNICAL CHARACTERISTICS

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

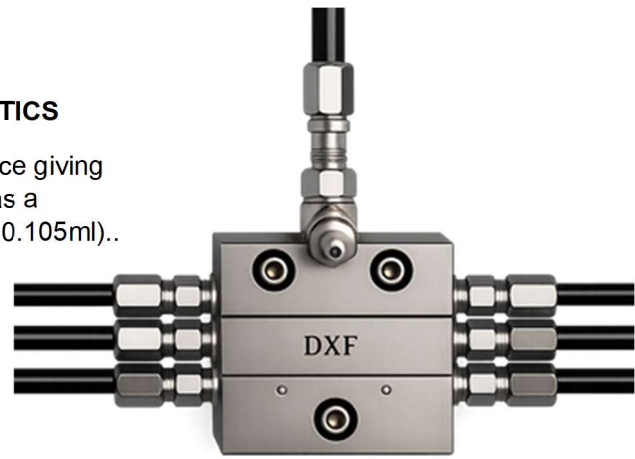
All sections are tightened via tie rods.

Operating principle of a DXF grease divider valve

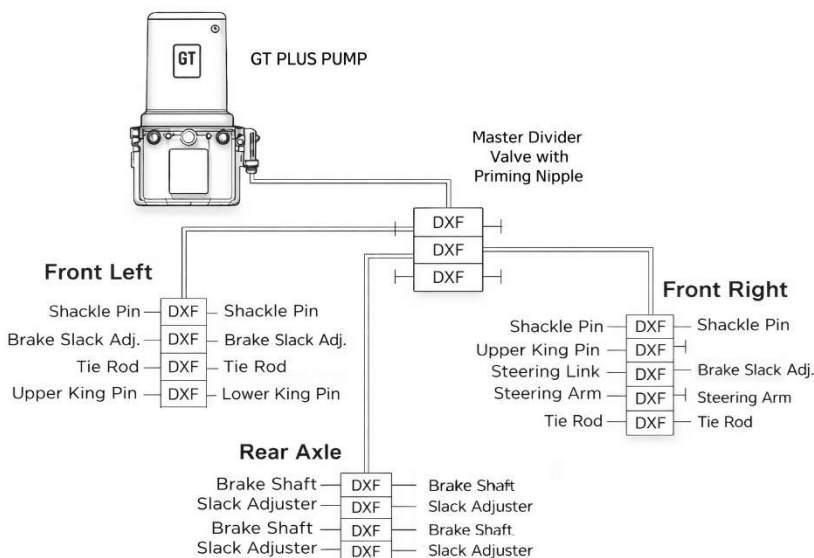
1. Grease enters DXF inlet section of the grease divider valve from the GT pump.
2. The Internal pistons move in a fixed sequence
3. Each section has an arrangement of pistons/spools
4. When grease pushes the first piston/spool, it completes its stroke and sends grease to its outlet.
5. Only after one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

If one outlet becomes blocked, the entire piston sequence stops. This allows monitoring as the overpressure relief valve will exert grease.

| 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                              |

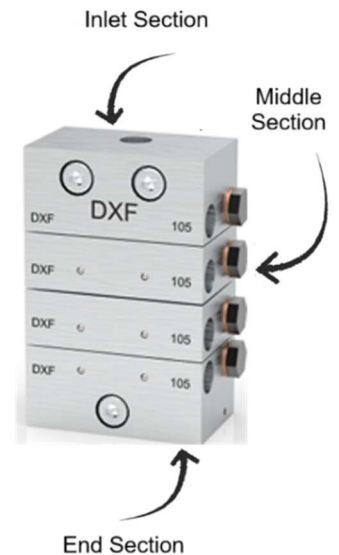


Lube Control Offers complete Kits ready for installation, complete with Bill of materials and drawings.



## SIMPLE ORDERING CODE FOR DIVIDER VALVES

|                |  |
|----------------|--|
| DXF3/2-EQUAL   | DXF progress divider valve with 2 outlets - equal amounts  |
| DXF3/3-EQUAL   | DXF progress divider valve with 3 outlets - equal amounts  |
| DXF3/4-EQUAL   | DXF progress divider valve with 4 outlets - equal amounts  |
| DXF3/5-EQUAL   | DXF progress divider valve with 5 outlets - equal amounts  |
| DXF3/6-EQUAL   | DXF progress divider valve with 6 outlets - equal amounts  |
| DXF3/7-EQUAL   | DXF progress divider valve with 7 outlets - equal amounts  |
| DXF3/8-EQUAL   | DXF progress divider valve with 8 outlets - equal amounts  |
| DXF3/9-EQUAL   | DXF progress divider valve with 9 outlets - equal amounts  |
| DXF5/10-EQUAL  | DXF progress divider valve with 10 outlets - equal amounts |
| DXF6/11-EQUAL  | DXF progress divider valve with 11 outlets - equal amounts |
| DXF6/12-EQUAL  | DXF progress divider valve with 12 outlets - equal amounts |
| DXF7/13-EQUAL  | DXF progress divider valve with 13 outlets - equal amounts |
| DXF7/14-EQUAL  | DXF progress divider valve with 14 outlets - equal amounts |
| DXF8/15-EQUAL  | DXF progress divider valve with 15 outlets - equal amounts |
| DXF8/16-EQUAL  | DXF progress divider valve with 16 outlets - equal amounts |
| DXF9/17-EQUAL  | DXF progress divider valve with 17 outlets - equal amounts |
| DXF9/18-EQUAL  | DXF progress divider valve with 18 outlets - equal amounts |
| DXF10/19-EQUAL | DXF progress divider valve with 19 outlets - equal amounts |
| DXF10/20-EQUAL | DXF progress divider valve with 20 outlets - equal amounts |
| DXF11/21-EQUAL | DXF progress divider valve with 21 outlets - equal amounts |
| DXF11/22-EQUAL | DXF progress divider valve with 22 outlets - equal amounts |
| DXF12/23-EQUAL | DXF progress divider valve with 23 outlets - equal amounts |
| DXF12/24-EQUAL | DXF progress divider valve with 24 outlets - equal amounts |



## BUILD YOUR OWN ORDERING CODE FOR DIVIDER VALVES

|            |  |
|------------|--|
| 4F025      | DXF 25 Inlet Section   |
| 4F045      | DXF 45 Inlet Section   |
| 4F075      | DXF 75 Inlet Section   |
| 4F105      | DXF 105 Inlet Section  |
| 4M025      | DXF 25 Middle Section  |
| 4M045      | DXF 45 Middle Section  |
| 4M075      | DXF 75 Middle Section  |
| 4M105      | DXF 105 Middle Section                                       |
| 4T025      | DXF 25 End Section   |
| 4T045      | DXF 45 End Section   |
| 4T075      | DXF 75 End Section   |
| 4T105      | DXF 105 End Section  |
| 4T045-V    | DXF 45 End Section, with visual pin                          |
| 4T075-V    | DXF 75 End Section, with visual pin                          |
| 4T105-V    | DXF 105 End Section, with visual pin                         |
| 4T045-E    | DXF 45 End Section, with inductive sensor                    |
| 4T075-E    | DXF 75 End Section, with inductive sensor                    |
| 4T105-E    | DXF 105 End Section, with inductive sensor                   |
| 4-B3103    | Tie Rods DFX3 Sections                                       |
| 4-B3104    | Tie Rods DFX4 Sections                                       |
| 4-B3105    | Tie Rods DFX5 Sections                                       |
| 4-B3106    | Tie Rods DFX6 Sections                                       |
| 4-B3107    | Tie Rods DFX7 Sections                                       |
| 4-B3108    | Tie Rods DFX8 Sections                                       |
| 4-B3109    | Tie Rods DFX9 Sections                                       |
| 4-B3110    | Tie Rods DFX10 Sections                                      |
| 4-B3111    | Tie Rods DFX11 Sections                                      |
| 4-B3112    | Tie Rods DFX12 Sections                                      |
| 3T1002     | Divider Inlet Fitting with 1/8BSP grease nipple              |
| BFD11/8BSP | Banjo Divider Inlet Fitting with grease nipple 1/8BSP        |
| 2U06       | DXF Bridging Element   |
| 5PG11      | DXF Closure Plug M10   |
| CV6M10     | Check valve straight M10 male x 6mm tube compression fitting |



TIE RODS



BFD11/8BSP



3T1002



5PG11



2U06

## ACCESSORIES AND SPARE PARTS

| Tube and Hose Sold in 10m increments   |   |
|--|---|
| PT6MM-GF   | 1m x 6mm high pressure tube - grease filled (NLGI 2)          |
| PT2CORE-GF   | 1m x 6mm 2 core grease line – grease filled (filled NLGI 00)  |
| PT3CORE-GF   | 1m x 6mm 3 core grease line – grease filled (filled NLGI 00)  |
| HPH8.6MGF  | 1m x 8.6mm high pressure grease hose – grease filled (NLGI 2) |
| 8.6mm Hose Studs – Studs end in 6mm and compression fittings need to be used |   |
| HS456M24   | 45 deg x 6mm hose stud (24mm x 15mm)                          |
| HS456M35   | 45 deg x 6mm hose stud (35mm x 25mm)                          |
| HS906M21   | 90 deg x 6mm hose stud (13mm x 21mm)                          |
| HS906M29   | 90 deg x 6mm hose stud (17mm x 29mm)                          |
| HS906M37   | 90 deg x 6mm hose stud (28mm x 37mm)                          |
| HSS20M   | Straight 6mm hose stud (20mm)                                 |
| HSS30M   | Straight 6mm hose stud (30mm)                                 |
| HSS08M   | Straight 8.6mm x 8.6mm hose stud connector/joiner             |
| HSSC6M   | Straight 8.6mm hose stud x 6mm compression fitting            |
| HS180M   | 180 deg x 6mm hose stud                                       |
| SS8.6  | Screw sleeve (to suit the hose studs above)                   |
| Compression fittings to suit hose studs and 6mm tube                         |   |
| SCF8M  | Straight M8 x 6mm tube comp fitting                           |
| SCF8MX1.25   | Straight M8 (x1.25) x 6mm tube comp fitting                   |
| SCF10M   | Straight M10 x 6mm tube comp fitting                          |
| SCF1/8BSP  | Straight 1/8BSP x 6mm tube comp fitting                       |
| SCF1/4BSP-L  | Straight 1/4BSP x 6mm tube comp fitting (L)                   |
| SCF1/4BSP-LL   | Straight 1/4BSP x 6mm tube comp fitting (LL)                  |
| SCF1/8NPT  | Straight 1/8NPT x 6mm tube comp fitting                       |
| SCF1/4NPT  | Straight 1/4NPT x 6mm tube comp fitting                       |
| SCFF1/8BSP   | Straight 1/8BSP Female x 6mm tube comp fitting                |
| SCF1/4UNF  | Straight 1/4UNF Male x 6mm tube comp fitting                  |
| C6M  | 6mm x 6mm Straight comp fitting connector                     |
| CF906M   | 90 deg M6 x 6mm tube comp fitting                             |
| CF908M   | 90 deg M8 x 6mm tube comp fitting                             |
| CF908MX1.25  | 90 deg M8 x 1.25mm x 6mm tube comp fitting                    |
| CF9010M  | 90 deg M10 x 6mm tube comp fitting                            |
| CF901/8BSP   | 90 deg 1/8BSP x 6mm tube comp fitting                         |
| CF901/4UNF   | 90 deg 1/4UNF x 6mm tube comp fitting                         |
| CF901/8NPT   | 90 deg 1/8NPT x 6mm tube comp fitting                         |
| CF901/4BSP   | 90 deg 1/4BSP x 6mm tube comp fitting (L)                     |
| CF90J6MM   | 90 deg 6mm x 6mm compression fitting joiner (L)               |
| CN   | 6mm nut   |
| CO   | 6mm olive   |
| CN-L   | 6mm nut (L)   |
| CO-L   | 6mm olive (L)   |
| SPIG6MM  | Spigot to suit 6mm tube                                       |
| Pushin fittings to suit 6mm tube   |   |
| PISC6M   | Straight M6 x 6mm tube push in fitting                        |
| PISC8M   | Straight M8 x 6mm tube push in fitting                        |
| PISC10M  | Straight M10 x 6mm tube push in fitting                       |
| PISC1/8BSP   | Straight 1/8BSP x 6mm tube push in fitting                    |
| PISCW906M  | 90 deg swivel M6 x 6mm tube push in fitting                   |
| PISCW908M  | 90 deg swivel M8 x 6mm tube push in fitting                   |
| PISCW9010M   | 90 deg swivel M10 x 6mm tube push in fitting                  |
| Other Accessories  |   |
| PC0606   | P-Clamp Rubber Stainless 6mm Hole 6mm diameter                |
| PC0610   | P-Clamp Rubber Stainless 6mm Hole 10mm diameter               |
| SPG925   | 25m x Spiral guard 9mm (suits the 8.6mm hose)                 |
| RVCCOM   | Return Valve Coupling 3 Way Complete                          |
| TC   | Tube Cutter – suits nylon, 8.6mm and 11.6mm hose              |



For a comprehensive range of spare parts please see [www.remotegreaselines.com.au](http://www.remotegreaselines.com.au)

CONTACT US



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Control

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