



Lube Control Pty Ltd

Chain Lubrication made EASY with Lube Control's Centralised Lube System for chains!



Centralised Lubrication Systems for Chains

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

With Lube Control's Centralised Lubrication System (CLS) for chains incorporating the Ciso GT Plus pump you will:

- Extend chain life by ensuring every link and roller receives the right amount of lubricant.
- Reduce maintenance costs through automatic, precise delivery that avoids over- or under-lubrication.
- Improve machine uptime by lubricating continuously during operation, removing the need for manual intervention.
- Have a cleaner, safer operation with minimal waste, no over lubrication, and reduced contamination.
- Have a consistent performance across harsh environments, high loads, 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 oil or grease (up to NLGI 2) to be distributed accurately to all the points of a machine. 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 lubrication 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 lubricant points.

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

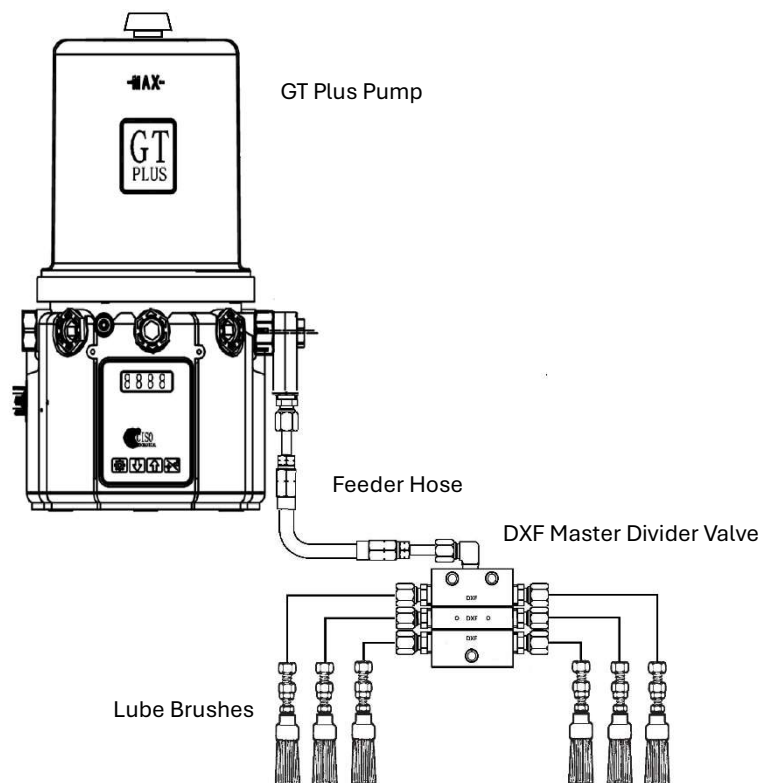
The system is easy to control and program with a built-in timer that allows a variety of output settings. Further options allow the system to be monitored by an electrical switch on the main divider valve.

The GT Plus options are:

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

The GT Plus comes with:

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



GT PLUS TECHNICAL INFORMATION

Number of Pumping Elements	Up to 5
Flow per pumping element	4ml/min (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 to NLGI 000, 00, 0, 1, 2
Operating temperature	-50°C to +90°C
Manual override	Yes
Filling Port	Filling cap with 10µm breather and strainer
Programming	Integrated control timer
Monitoring	Low Level alarm and over pressure relief valve



Easy to program timer

ORDERING DETAILS

LC-GT-2L-12V-TMR-LL-O	CISO GT-PLUS Pump, - 12V lubricator, 2L, with timer, low level alarm
LC-GT-2L-24V-TMR-LL-O	CISO GT-PLUS Pump, - 24V lubricator, 2L, with timer, low level alarm
LC-GT-2L-240V-TMR-LL-O	CISO GT-PLUS Pump, - 240V lubricator, 2L, with timer, low level alarm
LC-GT-4L-12V-TMR-LL-O	CISO GT-PLUS Pump, - 12V lubricator, 4L, with timer, low level alarm
LC-GT-4L-24V-TMR-LL-O	CISO GT-PLUS Pump, - 24V lubricator, 4L, with timer, low level alarm
LC-GT-4L-240V-TMR-LL-O	CISO GT-PLUS Pump, - 240V lubricator, 4L, with timer, low level alarm
LC-GT-8L-12V-TMR-LL-O	CISO GT-PLUS Pump, - 12V lubricator, 8L, with timer, low level alarm
LC-GT-8L-24V-TMR-LL-O	CISO GT-PLUS Pump, - 24V lubricator, 8L, with timer, low level alarm
LC-GT-8L-240V-TMR-LL-O	CISO GT-PLUS Pump, - 240V lubricator, 8L, with timer, low level alarm
LC-GT-12L-12V-TMR-LL-O	CISO GT-PLUS Pump, - 12V lubricator, 12L, with timer, low level alarm
LC-GT-12L-24V-TMR-LL-O	CISO GT-PLUS Pump, - 24V lubricator, 12L, with timer, low level alarm
LC-GT-12L-240V-TMR-LL-O	CISO GT-PLUS Pump, - 240V lubricator, 12L, with timer, low level alarm

All 12V and 24V models come with a with 7 pin Tyco bayonet plug. 240V Models come with a DIN 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)



80536



5FJ01

DXF PROGRESSIVE DIVIDER VALVE TECHNICAL CHARACTERISTICS

The DXF progressive lubricant 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:

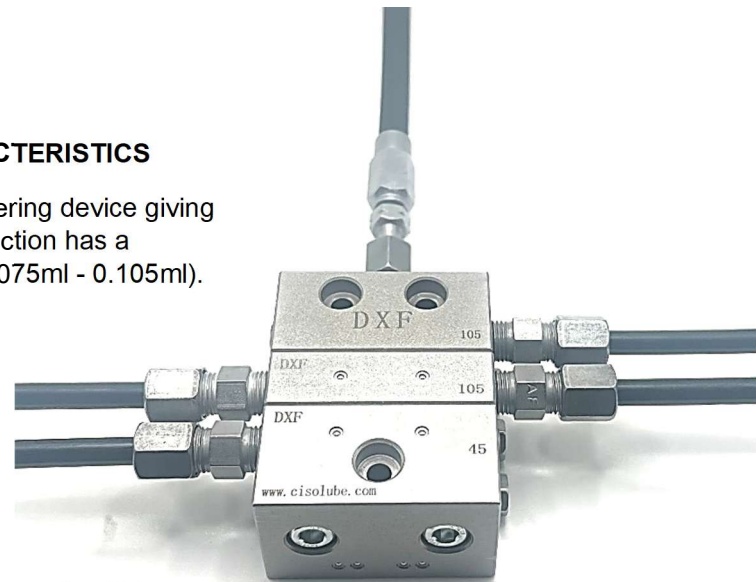
- 1 x Inlet section
- Up to 10 x Middle section
- 1 x Tail sections

All sections are tightened via two tie rods.

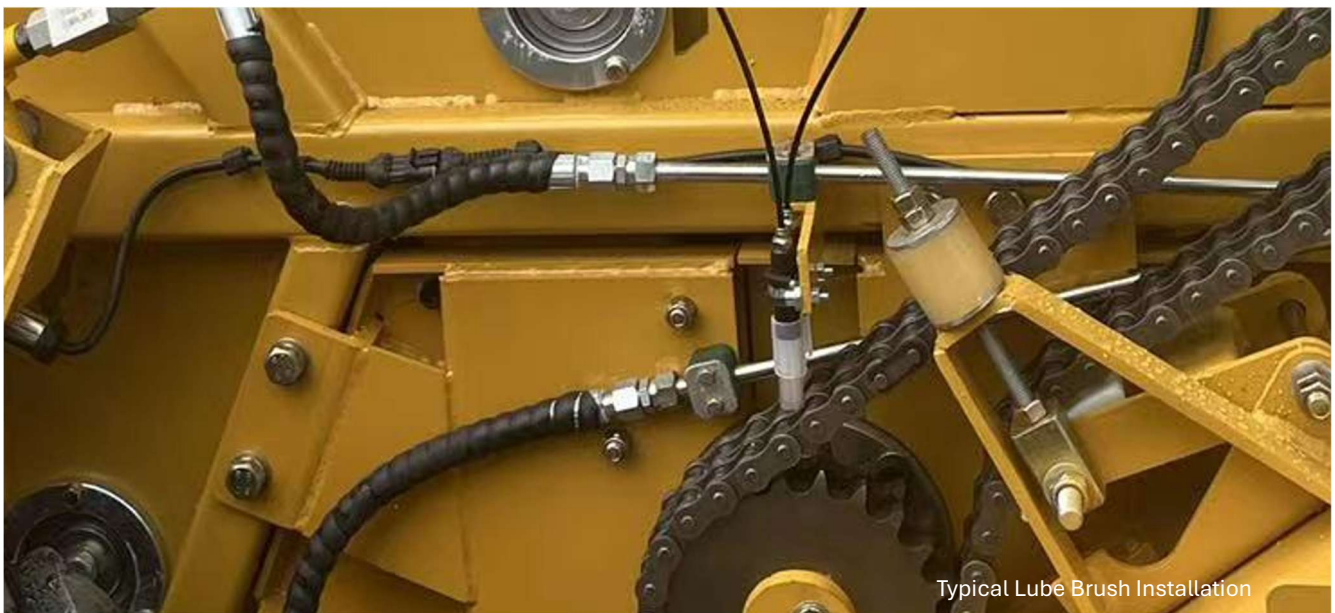
Operating principle of a DXF divider valve

1. Lubricant enters DXF inlet section of the 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 lubricant pushes the first piston/spool, it completes its stroke and sends lubricant 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 over-pressure relief valve will expel lubricant.



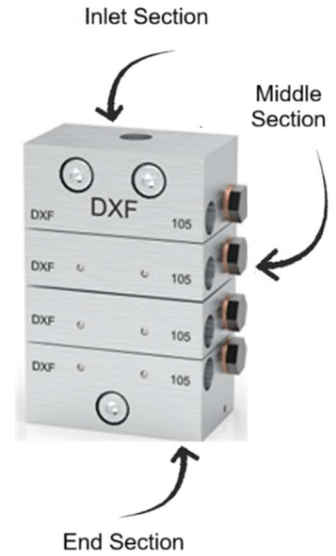
TECHNICAL INFORMATION	
Number outlets	1 to 24
Discharge for each outlet	0.025ml - 0.045ml - 0.075ml - 0.105ml
Maximum pressure	300bar (30Mpa)
Number of cycles	Max. 300 cycles/min
Inlet thread	1/8BSP
Outlet thread	M10x1.0
Singling screw installed	Yes
Material	Zinc-nickel
Visual monitoring	Optional
Electrical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



Typical Lube Brush Installation

SIMPLE ORDERING CODE FOR DXF 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
DXF4/7-EQUAL	DXF progress divider valve with 7 outlets - equal amounts
DXF4/8-EQUAL	DXF progress divider valve with 8 outlets - equal amounts
DXF5/9-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

Choose 1 x inlet section, 1 x end section and at least 1 x middle section

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 for visual monitoring
4T075-V	DXF 75 End Section, with visual pin for visual monitoring
4T105-V	DXF 105 End Section, with visual pin for visual monitoring
4T045-E	DXF 45 End Section, with inductive sensor for electrical monitoring
4T075-E	DXF 75 End Section, with inductive sensor for electrical monitoring
4T105-E	DXF 105 End Section, with inductive sensor for electrical monitoring

Tie rods to hold sections together. 2 x needed for each DXF divider valve

4-B3103	Tie Rods DXF3 Sections
4-B3104	Tie Rods DXF4 Sections
4-B3105	Tie Rods DXF5 Sections
4-B3106	Tie Rods DXF6 Sections
4-B3107	Tie Rods DXF7 Sections
4-B3108	Tie Rods DXF8 Sections
4-B3109	Tie Rods DXF9 Sections
4-B3110	Tie Rods DXF10 Sections
4-B3111	Tie Rods DXF11 Sections
4-B3112	Tie Rods DXF12 Sections
2U06	DXF Bridging Element (used to cross port two sections)
5PG11	DXF Closure Plug M10 (used when singling screw is removed)



TIE RODS



5PG11



2U06

COMPLETE KIT ORDERING CODES

All kits come with:

- 1 x GT Plus programmable pump (with your choice of 2L, 4L, 8L or 12L reservoir and your choice of voltage)
- 1 x Feeder hose 5m – connects the pump to the DXF divider valve (FEEDER/8.6MM/5M)
- 1 x DXF divider valve (with choice of outlets from 1 to 24)
- Lube brushes (standard brush included suits chains up to 20mm wide BR-R-20-NYL-CO)
- Tube and fittings (tubing supplied is measured at 5m per outlet)
- ***For different lube outlet quantities please consult your representative or build your own DXF divider valve***

ORDERING CODE FOR: A chain lubrication kit; with a 4L reservoir, 24V to suit 6 chains each 20mm wide including fittings and tube - 6 x 5m (total of 30m)

Part Number Example: CLS-CHAIN-4L-20MM-6PT-24V

Ordering code:

Australian Prefix

Reservoir – Transparent Acrylic

2L Reservoir	2L
4L Reservoir	4L
6L Reservoir	6L
8L Reservoir	8L
12L Reservoir	12L

Number Chains

1, 2, to23, 24 (PT)

Brush/Chain Width ***

20mm
40mm
60mm

Voltage

12VDC	12V
24VDC	24V
240VAC	240V

CLS - CHAIN- [] - [] - [] - []



BR-R-20-NYL-CO
20mm round lube brush



BR-F-J-40X15-NYL
40mm flat lube brush



BR-F-J-60X15-NYL
60mm flat lube brush

Transparent reservoir with fill port, breather and strainer

Easy to program controller with low level alarm



Feeder Hose and transparent 4mm tube



Lube brushes and divider valve with push-in fittings

ACCESSORIES AND SPARE PARTS
**Feeder Hose – Hose from GT Plus to divider valve or from one divider valve to another.
Can be cut easily to your required length**

FEEDER/8.6MM/1M	Feeder Hose 8.6mm from GT Plus to DXF Divider Valve 1m
FEEDER/8.6MM/5M	Feeder Hose 8.6mm from GT Plus to DXF Divider Valve 5m
FEEDER/8.6MM/10M	Feeder Hose 8.6mm from GT Plus to DXF Divider Valve 10m
FEEDER/8.6MM/15M	Feeder Hose 8.6mm from GT Plus to DXF Divider Valve 15m

Fittings to suit DXF Divider Valve to connect feeder hose end

SCF10M	Straight M10 x 6mm tube compression fitting
PISC10M	Straight M10 x 6mm tube push-in fitting
PISCW9010M	90 deg swivel M10 x 6mm tube push-in fitting
PISCW901/8BSP	90 deg swivel 1/8BSP x 6mm tube push-in fitting

4mm Tube – From DXF Divider Valve to Lube Brush

TT4MM-04	Transparent Nylon Tube 4mm OD (sold in 10m increments)
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Fittings (4mm tube) to suit Lube Brush and DXF Divider Valve

SCF1/8BSP-04	Straight 1/8BSP x 4mm tube compression fitting
CF901/8BSP-04	90 deg 1/8BSP x 4mm tube compression fitting
PISC1/8BSP-04	Straight 1/8BSP x 4mm tube push-in fitting (suit DXF outlet)
NIP1/8BSP	1/8BSP Male x 1/8BSP Male nipple to join brushes where possible

Lube Brushes (ROUND) all with 1/8BSP inlet

BR-R-15-NYL-CO	Oil Brush Round 1/8BSP 100mmH (Dia 15mm) Nylon with Cover
BR-R-20-NYL-CO	Oil Brush Round 1/8BSP 100mmH (Dia 20mm) Nylon with Cover***
BR-R-6-NYL	Oil Brush Round 1/8BSP 70mmH (Dia 6mm) Nylon
BR-R-16-NYL	Oil Brush Round 1/8BSP 70mmH (Dia 16mm) Nylon
BR-R-25-NYL	Oil Brush Round 1/8BSP 70mmH (Dia 25mm) Nylon
BR-R-38-NYL	Oil Brush Round 1/8BSP 70mmH (Dia 38mm) Nylon
BR-R-6-SS	Oil Brush Round 1/8BSP 70mmH (Dia 6mm) Stainless
BR-R-16-SS	Oil Brush Round 1/8BSP 70mmH (Dia 16mm) Stainless
BR-R-25-SS	Oil Brush Round 1/8BSP 70mmH (Dia 25mm) Stainless
BR-R-38-SS	Oil Brush Round 1/8BSP 70mmH (Dia 38mm) Stainless
BR-R-6-NYL-PR	Premium Oil Brush Round, adjustable shank 105mmH (Dia 6mm) Nylon
BR-R-15-NYL-PR	Premium Oil Brush Round, adjustable shank 90mmH (Dia 15mm) Nylon
BR-R-25-NYL-PR	Premium Oil Brush Round, adjustable shank 108mmH (Dia 25mm) Nylon
BR-R-38-NYL-PR	Premium Oil Brush Round, adjustable shank 108mmH (Dia 38mm) Nylon
BR-R-6-SS-PR	Premium Oil Brush Round, adjustable shank 105mmH (Dia 6mm) Stainless
BR-R-15-SS-PR	Premium Oil Brush Round, adjustable shank 90mmH (Dia 15mm) Stainless

Lube Brushes (FLAT) all with 1/8BSP inlet

BR-F-16-NYL	Oil Brush Flat 55mmH (16mm x 5mm), Nylon
BR-F-20-NYL	Oil Brush Flat 78mmH (20mm x 5mm) Nylon
BR-F-J-40X15-NYL	Oil Brush Flat 57mmH (40mm x 15mm) Nylon – can be joined***
BR-F-J-60X15-NYL	Oil Brush Flat 57mmH (60mm x 15mm) Nylon – can be joined***
BR-F-J-100X15-NYL	Oil Brush Flat, 57mmH (100mm x 15mm) Nylon - can be joined
BR-F-57-NYL-PR	Premium Oil Brush Flat, adjustable shank 87mmH (57mm x 9mm), Nylon
BR-F-57-SS-PR	Premium Oil Brush Flat, adjustable shank 87mmH (57mm x 9mm), Stainless

Other Accessories

PC0606	P-Clamp Rubber Stainless 6mm Hole 6mm diameter
PC0610	P-Clamp Rubber Stainless 6mm Hole 10mm diameter
PC0622	P-Clamp Rubber Stainless 6mm Hole 22mm diameter (suit BR-R-20-NYL-CO)
TC	Tube Cutter – suits nylon, 8.6mm and 11.6mm hose



FEEDER/8.6MM/1M



TT4MM-04



PISC1/8BSP

CF901/8BSP



BR-R-20-NYL-CO



BR-R-38



BR-R-38-NYL-PR



BR-F-J-60X15-NYL



BR-F-57-NYL-PR





Lube Control Pty Ltd

TYPICAL INDUSTRIES AND APPLICATIONS

Slat conveyors

DAF Plants

Food Processing

Abattoirs

Bakeries

Wineries

Breweries

Canning

Chocolate manufacturing

Concrete moulding equipment

Dairy machines

Timber mills

Recycling plants

Pallet warehousing

Transport industries

Sorting machines

Agricultural machinery