



LUBRICATION SYSTEMS & ACCESSORIES



Fittings

|

Injectors

|

Swivels

|

Quicklink

|

Blocks

|

Hoses



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- Quantity of goods
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Compact Pumps

Eurolube Australia's extensive range of compact pumps are heavy duty units designed for use on any mobile plant or industrial application.

These positive displacement pumps are complimented by Eurolube Australia's extensive range of accessories, allowing for the modular development of a purpose built greasing solution for your specific operational requirements.

Various configurations may include utilising Eurolube progressive divider valves (PDV) to distribute greasing over small to medium systems, or by utilising Eurolube external controllers to manage greasing performance over a larger single line system.

The Eurolube Australia range of compact pumps are proven to provide versatile performance and durability that your various applications require.

1 Litre Pump



Description	Part No.
Eurolube 1 litre 12V Pump with Timer	72-644-37471-8
Eurolube 1 litre 24V Pump with Timer	72-644-37471-9
Eurolube 1 litre 12V Pump	72-644-37471-5
Eurolube 1 litre 24V Pump	72-644-37471-4

2 Litre Pump



Description	Part No.
Eurolube 2 litre 12V Pump with Timer	72-644-40657-2
Eurolube 2 litre 24V Pump with Timer	72-644-40657-3
Eurolube 2 litre 12V Pump	72-644-40640-1
Eurolube 2 litre 24V Pump	72-644-40640-2

4 Litre Pump



Description	Part No.
Eurolube 4 litre 12V Pump with Timer	72-644-40599-8
Eurolube 4 litre 24V Pump with Timer	72-644-40599-9
Eurolube 4 litre 12V Pump	72-644-40753-6
Eurolube 4 litre 24V Pump	72-644-40703-4

8 Litre Pump

Description	Part No.
Eurolube 8 litre 12V Pump with Timer	72-644-40833-7
Eurolube 8 litre 24V Pump with Timer	72-644-40610-7
Eurolube 8 litre 12V Pump	72-644-40645-3
Eurolube 8 litre 24V Pump	72-644-40645-4

**15 Litre Pump**

Description	Part No.
Eurolube 15 litre 12V Pump with Timer	72-644-41046-1
Eurolube 15 litre 24V Pump with Timer	72-644-41046-2
Eurolube 15 litre 12V Pump	72-644-41045-1
Eurolube 15 litre 24V Pump	72-644-41045-2



Compact Pump Accessories



Pump Elements

Description	Part No.
2.0cc/min P5 Element	72-600-26875-2
2.8cc/min P6 Element	72-600-26876-2
4.0cc/min P7 Element	72-600-26877-2
6.0cc/min P8 Element	72-600-26878-3



Description	Part No.
0.7 - 3.0cc/min PR Adjustable Element	72-655-28716-1



Return Line - Bulk Fill Adaptor

Description	Part No.
M22 x 1/8 BSPT	72-304-19619-1
M22 x 1/4 BSPT	72-304-17571-1

*Fits element port



Pressure Relief Valve - 6mm Connector

Description	Part No.
350 Bar Relief Valve	72-624-28894-1
200 Bar Relief Valve	72-624-28891-1



Spacer for Pressure Relief Valve

Description	Part No.
1/4 x 1/4 BSPT	72-226-14105-5

*Required for 4,8 & 15 litre reservoirs



Pressure Relief Valve Gauge Kit - 6mm

Description	Part No.
350 Bar Relief Valve	72-624-29426-1
200 Bar Relief Valve	72-624-29426-2
Replacement 400 Bar Gauge	74-G63-400-R-BT



Filter Assembly - 1/2 BSPP

Description	Part No.
Filter Assembly - 500 µm	72-528-36045-8
Replacement Screen	72-428-21544-1

400 Bar

Mount Plate

Description	Part No.
Multi Mount Plate	72-0110
Angle Bracket Base	72-0112
Combo Bracket	72-307-19544-1



Illuminated Push Button

Description	Part No.
12V Green	72-664-36070-5
24V Green	72-664-36070-6



*Decal disc optional extra

Rocker Switch

Description	Part No.
12V Rectangular Rocker Switch	72-236-10280-5
24V Rectangular Rocker Switch	72-236-10280-6



Bulk Grease Pump Stations

The process of distributing grease to the required points of machinery is one that is usually designed around the requirements of the owner and their maintenance team.

We at Eurolube Australia recognise these individual requirements, our response being that our lubrication systems are modular designed to satisfy any required customisation and performance criteria.

Our standard reservoirs are capable of being complimented with additional hardware that enable the end user to satisfy both individual machinery and fleet requirements.

Regardless of whether the required greasing system characteristics are progressive, central line, dual line or modular block design, Eurolube Australia has the correct reservoir and pump kit to suit.

Furthermore, owners and operators of machinery with current non performing greasing systems can utilise the Eurolube product range to upgrade their greasing efficiency and effectiveness.

Bulk Grease Pump Station

Power	Reservoir	Part No.
Air	20 kg	72-000220
Air	40 kg	72-000240
Air	60 kg	72-000260
Air	180 kg	72-000280
Hydraulic	20 kg	72-000520
Hydraulic	40 kg	72-000540
Hydraulic	60 kg	72-000560
Hydraulic	180 kg	72-000580
24 VDC	20 kg	72-000720
24 VDC	40 kg	72-000740
24 VDC	60 kg	72-000760
24 VDC	180 kg	72-000780

Electric Pump Station may be supplied with a Generic Pump



Bulk Grease Pump Station Options

Round Tub

20 kg
40 kg
60 kg
180 kg

Pump Type

Air
Hydraulic
Electric 24 VDC
Electric AC 240/415

Mine Box

16 kg
45 kg

Grease System Type

Central Line (CL1)
Progressive (PDV)
Modular (MDV)
Dual Line (DLV)

Shut Off

Overflow
Mechanical
Electric / Ultrasonic Level
Wifi Truck Connect
Pressure (V96* / Ecovalve*)

Other accessories / features can be included:

Top Hat protection from harsh environments
Stainless Reservoir
Custom Reservoir Sizes
Follower Plates

* V96 is a product name for Garland Engineering - Modulube

* Ecovalve is a product name for Bard Engineering



Bulk Grease Pump Accessories

Replacement Pumps

Air Operated 80:1 E90



Hydraulic Operated 14:1 E90

Description	Leg Length (mm)	Part No.
20 kg Pump	510	77-25784
60 kg Pump	730	77-25786
180 kg Pump	925	77-25785

Conventional Replacement Vent Valves



Replacement NPT Vent Valves	NPT Threads	Part No.
Air Operated	1 1/16 NPT	72-083948-NPT
Hydraulic Operated	1 1/16 NPT	72-084980-NPT

Modular Replacement Vent Valves



Voltage	Function	Direction	Part No.
24 VDC	N/O	2/2	72-525-32083-REP
110 AC	N/O	2/2	72-525-32098-REP
240 AC	N/O	2/2	72-525-32084-REP
Voltage	Function	Direction	Part No.
24 VDC	N/C	2/2	72-525-32080-REP
110 AC	N/C	2/2	72-525-32081-REP
240 AC	N/C	2/2	72-525-32082-REP
Replacement Manifold	1/2 BSPP	2/2	72-525-32083-BLK
Replacement DIN Plug			71-156-4757
Power	Function	Direction	Part No.
Air Operated	N/O	2/2	72-525-32083-AIR
Hydraulic	N/O	2/2	72-525-32083-HYD

*Other combinations & voltages available on request



High Volume Electric Replacement Vent Valves

Voltage	Function	Direction	Part No.
24 VDC	N/O	2/2	72-525-32099-REP
Replacement Manifold	1/2 BSPP	2/2	72-525-32099-BLK

Check Valves

Description	Part No.
1/4 BSPP to suit Eurolube Modular Manifold	72-081938-M



Description	Orientation	Part No.
1/4 BSPT	Fem - Fem	72-081938-R
1/4 BSPP	Fem - Fem	72-081938-G
1/4 NPT	Fem - Fem	72-081938-N

Pressure Switches

Description	Max Pressure	Connection	Part No.
Telemecanique	300 Bar	Cable Entry	72-XMLA300D-S12
Telemecanique	300 Bar	DIN Plug	72-XMLA300D-C12



Description	Max Pressure	Connection	Part No.
Compact Economy	300 Bar	Deustche Plug	72-070419-CS
Compact Switch	300 Bar	DIN Plug	72-070419-BP



Description	Max Pressure	Connection	Part No.
Digital Pressure Switch	400 Bar	M12 Connector	74-234-10330-T
Replacement Cable		3m	74-234-10330-C



Safety Unloaders

Pressure	Thread	Part No.
2500 PSI	1/8 NPT	72-272572
4000 PSI	1/8 NPT	72-090942
5000 PSI	1/8 NPT	72-273067
6000 PSI	1/8 NPT	72-080045



Pressure Gauges

Pressure	Thread	Entry	Part No.
400 Bar	1/4 BSPP	Rear	74-G63-400-R-BP
400 Bar	1/4 BSPT	Rear	74-G63-400-R-BT
400 Bar	1/4 BSPP	Side	74-G63-400-S-BP
400 Bar	1/4 BSPT	Side	74-G63-400-S-BT



*Eurolube pressure gauges 63mm stainless dial glycerine filled - BAR / PSI

Bulk Grease Pump Accessories



12/24 VDC Air Solenoids

Power	Entry	Max Pressure	Part No.
12 VDC	1/8 BSPT	150 PSI	72-350282
12 VDC	1/4 BSPT	150 PSI	72-350283
24 VDC	1/8 BSPT	150 PSI	72-274397
24 VDC	1/4 BSPT	150 PSI	72-274398



Compact Air Regulator

Inlet Pressure Max	Thread	Outlet Pressure	Part No.
300 PSI - Compact	1/4 BSPP	5 - 100 PSI	72-602003
300 PSI - Modular	1/4 BSPP	5 - 100 PSI	72-602005
300 PSI - Modular	3/8 BSPP	5 - 100 PSI	72-602007
300 PSI - Modular	1/2 BSPP	5 - 100 PSI	72-602009



Fixed Pressure Regulator - Suits E90 Pumps

Inlet Pressure	Thread	Outlet Pressure	Part No.
80-150 PSI	1/4 BSPP	50 PSI	72-602001



Modular Filter / Regulator

Inlet Pressure Max	Thread	Outlet Pressure	Part No.
250 PSI	1/4 BSPP	5 - 150 PSI	72-602134
250 PSI	3/8 BSPP	5 - 150 PSI	72-602136
250 PSI	1/2 BSPP	5 - 175 PSI	72-602138



Standard Bulk Fill Grease Couplings



Connection	Male	Female	Set
1/4 BSP	74-NV-14GAS-M	74-NV-14GAS-F	74-NV-14GAS-K
3/8 BSP	74-NV-38GAS-M	74-NV-38GAS-F	74-NV-38GAS-K
1/2 BSP	74-NV-12GAS-M	74-NV-12GAS-F	74-NV-12GAS-K
3/4 BSP	74-NV-34GAS-M	74-NV-34GAS-F	74-NV-34GAS-K
1 BSP	74-NV-1GAS-M	74-NV-1GAS-F	74-NV-1GAS-K



Caps and Covers - Bulk Fill Grease Couplings

Connection	Male	Female	Set
1/4 BSP	74-TM14	74-TF14	74-TFM14
3/8 BSP	74-TM38	74-TF38	74-TFM38
1/2 BSP	74-TM12	74-TF12	74-TFM12
3/4 BSP	74-TM34	74-TF34	74-TFM34
1 BSP	74-TM1	74-TF1	74-TFM1



Modulube V96 Parts

Part	Operating Pressure	Relief Pressure	Part No.
2" V96 Kit	6-8 PSI	25 PSI	V96-K
2" V96 Fill Point Assy.			V96-F
3" V96 Valve	3-4 PSI		V96-20
3" V96 Vent Relief		12 PSI	VR-32
3" V96 Fill Point Assy.			V96-32F



Custom Fill Point

Part	Part No.
1/2 BSPP Modular Valve	72-532-32131-8



Bulk Grease Label

Part	Dimensions	Part No.
Adhesive Sticker	100mm x 120mm	72-Label-201
Adhesive Plastic Label	100mm x 120mm	72-Label-202
Adhesive Stainless Label	100mm x 120mm	72-Label-203



*Other sizes and formats available on request

External Controllers

Compact Controller

Compact Control Unit UC1A is designed for controlling and monitoring centralised lubrication systems. It is widely used in lubrication system control for automobile chassis, construction machinery, small industrial machinery and equipment.



Compact controller offers complete functionality:

- Compact design enables panel mount ability.
- Choice of TIMER mode and COUNTER mode for progressive, modular and dual-line systems.
- Pressure switch monitoring function ideal for single line systems.
- Memory function for cycle time at power down.

Voltage	Mount	Part No.
24V	Panel Mount	77-236-13830-1
12V	Panel Mount	77-236-13830-2
240V	Panel Mount	77-236-13830-3

Universal Control Unit (UCU)

Universal Control Unit (UCU) is designed for controlling and monitoring centralised lubrication systems. It is widely used on engineering machinery, vehicles and single line centralized lubrication systems.



Complete and powerful control functions:

- Choice of TIMER mode and COUNTER mode for progressive, modular and dual-line systems.
- Pressure switch monitoring function ideal for single line systems.
- Memory function for cycle time at power down.
- 4-digit password protection to prevent programmed parameters being changed accidentally.
- Level monitoring and host interlocking functions (optional).
- Convenient and easy operation.
- High reliability on design and manufacture.
- Optional android or ios programming / interrogation feature.
- Lube cycle and fault download facility to a custom pc program.



Voltage	Function	Part No.
24V		77-236-02002-1
24V	Android App	77-236-02002-2G
24V	iOS App	77-236-02002-2A
12V		77-236-02002-3
24V	Universal Wiring Harness	77-236-02002-4

Controller UCM

Controller UCM is our controller designed for controlling and monitoring central lubrication systems. It is widely used in larger machinery applications with multi-line lubrication systems that require simultaneous functions and multiple monitoring points.

Powerful functions:

- High speed processor UCM can control and monitor a maximum of 8 outlets.
- TIMER and COUNTER control modes are available for both LUBE and PAUSE.
- Manual run button.
- External start / stop function and alarm outputs.
- Monitoring functions include air pressure, low level, system pressure and individual cycle switches.
- Memory function for cycle time at power down.
- Convenient and easy operation.
- Easily adapted to most applications.



Description	Part No.
24V	77-236-02002-5
12V	77-236-02002-6
24V	77-236-02002-7



External Controllers

Intelligent Lubrication Control Station (ILC)

The intelligent lubrication control station (ILC) is the latest control device specially designed for centralised lubrication control application. Its design utilises intelligent control techniques, computer network and communication technology.



This is a powerful control station, capable of managing multiple control modes and monitoring modes, supports network, can form a large distributed system to satisfy the control requirements of most lubrication fields.

Complete and powerful control function:

- 4 Independent control channels, which can monitor and control 4 independent lubrication systems.
- Multiple lubrication control modes: timer lube, counter lube, pressure, signal trigger mode lube.
- External start / stop function and alarm outputs.
- 4-Digit password protection to prevent programmed parameters being changed accidentally.
- Memory function for cycle time at power down.
- Interlock control and level monitoring function.
- Supports industrial standard modbus protocol.
- 4 channels of analogue signal inputs.
- Independent internal temperature sensor inside the control station.
- Ability to monitor system voltage.

Description	Part No.
12-42V	77-236-02002-8

Convenient and easy operation interface:

- Displays information with 4 digits LED digital monitor.
- LED signal lights indicate system working status.
- Keypad operation with 3 keys for quick and easy parameter setup.
- Ladder structure program menu.

Designed for industry environment:

- Surge protection and power.
- Working temperature range from -30° to 70°.
- Standard DIN industry rail mounting.
- Control modes and parameters are stored in EEPROM.

High reliability on design and manufacture:

- Design complies with industrial application standard controller, and can work for 24 hours continuously at high workload.
- Control modes and parameters are stored in EEPROM for a long time without backup power support. It has an especially improved EEPROM parameter correction function, which improves the high reliability of lubrication control.
- Main electronic components are all industrial level and high temperature stability treated, ensuring the reliability of the whole control unit.
- SMT manufacturing technique with reinforcement treatment enables the controller can work stable even under severe vibration conditions.

Intelligent lubrication system

Single-line lubrication system

Dual line lubrication system

Minimal quantity air/oil mist lubrication system

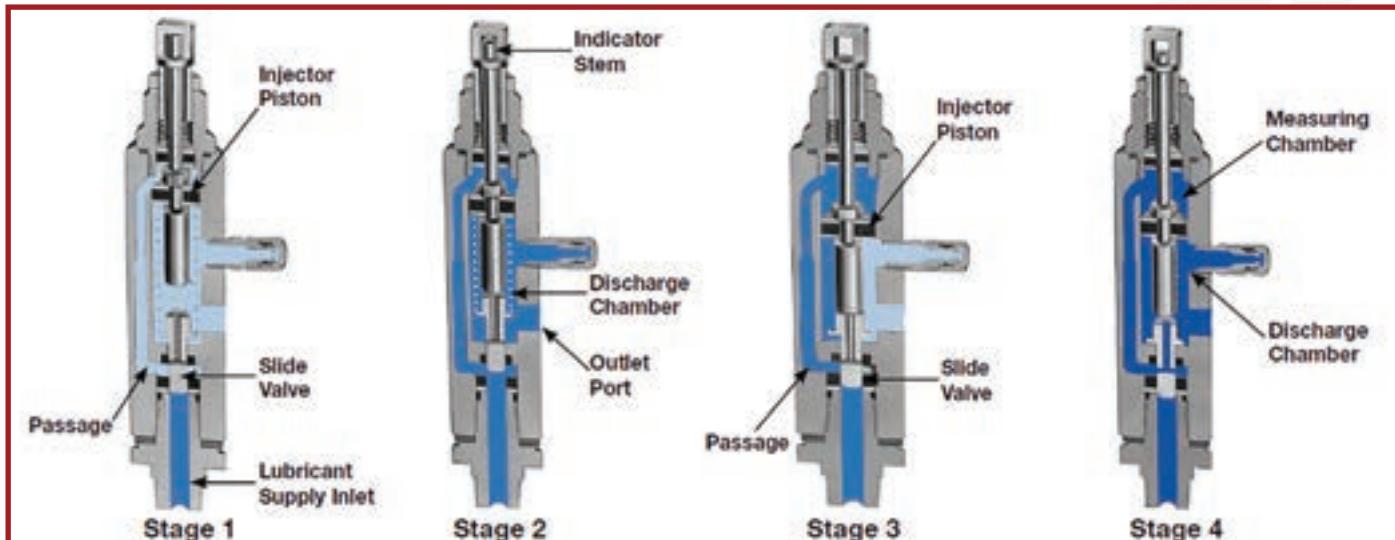
Oil lubrication system

Injection lubrication system



Basic Operating Principles of Central Line Injectors

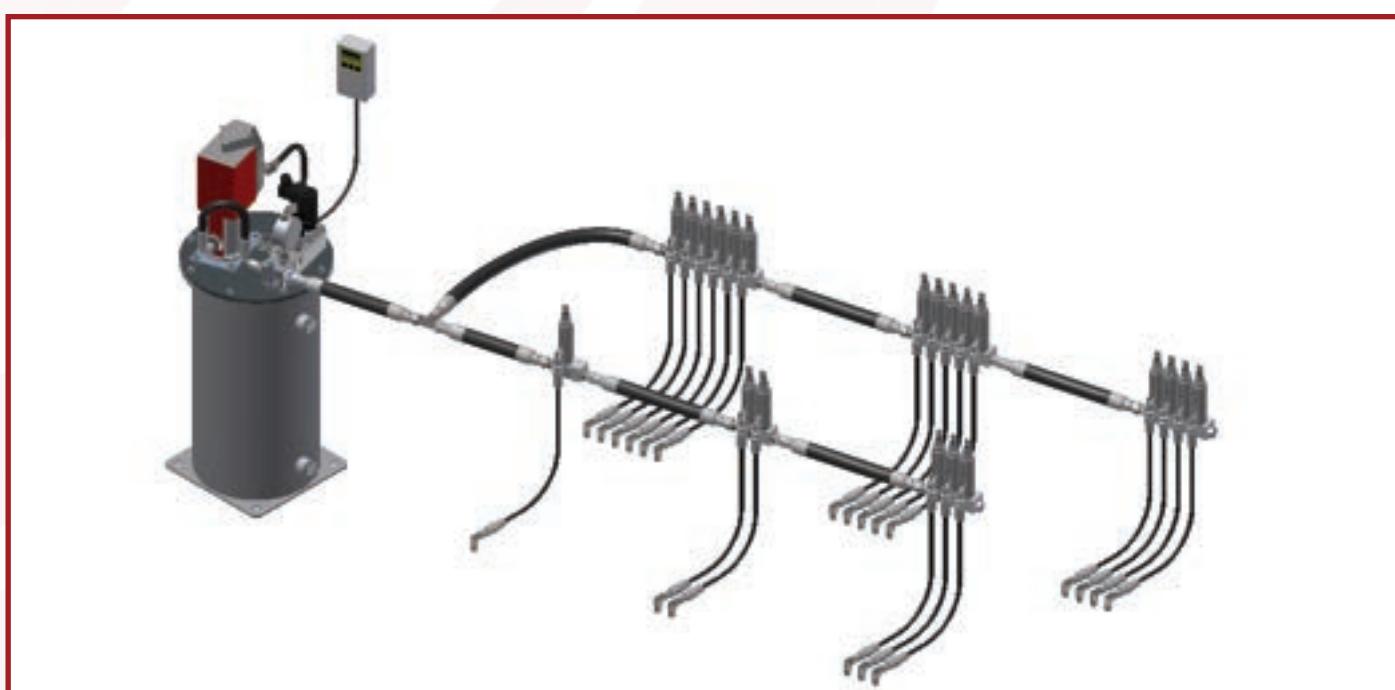
Each central line injector can be manually adjusted to discharge the precise amount of lubricant that each bearing needs. Injectors are mounted singularly at each bearing, or grouped in a manifold with feed lines supplying lubricant to the bearings. In each scenario, injectors are supplied with lubricant under pump pressure through a single supply line. Additionally, the lubrication circuit may consist of either a top adjusting or a side adjusting injector or a combination of both, the ultimate selection criteria will be determined by identifying the specific bearing lubrication requirements.



CL1 Operating Sequence

Applications: When it comes to eliminating costly, manual point-by-point lubrication, central line systems have proven to be the correct solution for many industries and applications.

- Mining
- Plastic Processing
- Wood Processing
- Printing
- Packaging
- Textile
- Food & Beverage
- Metalworking
- Material Handling Equipment
- Paper Converting
- Mobile Equipment
- Oil & Gas
- Ship Loading
- Wind Energy
- Telecommunications



CL 1 Injectors

SERIES	Output		Operating Pressure				Connections	
	Min.	Max.	Min.	Max.	Typical	Vent	Manifold Inlet	Injector Outlet
CL1	.008 cu. in. 0.131cc	.080 cu. in. 1.31cc	1850 psi 127 bar	3500 psi 241 bar	2500 psi 172 bar	600 psi 41 bar	3/4 UNO (F)	1/8 NPTF (F)

Output with adjustment screw. Total 8 turns at 0.1637cc per turn

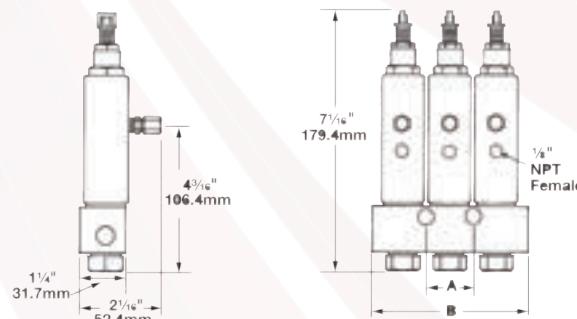
CL1 Injector



Description	Part No.
CL1 Injector - One Injector Manifold Set	72-081770-1
CL1 Injector - Two Injector Manifold Set	72-081770-2
CL1 Injector - Three Injector Manifold Set	72-081770-3
CL1 Injector - Four Injector Manifold Set	72-081770-4
CL1 Injector - Five Injector Manifold Set	72-081770-5
CL1 Injector - Six Injector Manifold Set	72-081770-6



Description	Part No.
Replacement CL1 Injector	72-081713A



Stainless CL1 Injector



Stainless Steel	Part No.
CL1 Injector - One Injector Manifold Set	72-239351
CL1 Injector - Two Injector Manifold Set	72-239352
CL1 Injector - Three Injector Manifold Set	72-239353
CL1 Injector - Four Injector Manifold Set	72-239354
CL1 Injector - Five Injector Manifold Set	72-239355



Description	Part No.
Replacement Stainless CL1 Injector	72-084776



Manifold Block and Mount Plate

Block Part No.	Ports	Weld Plate No.
72-0521	1	72-0551
72-0522	2	72-0552
72-0523	3	72-0553
72-0524	4	72-0554
72-0525	5	72-0555
72-0526	6	72-0556
72-0527	7	72-0557
72-0528	8	72-0558
72-0529	9	72-0559
72-0530	10	72-0560
72-0531	11	72-0561
72-0532	12	72-0562
72-0533	13	72-0563
72-0534	14	72-0564
72-0535	15	72-0565

3/4 UNO Ports



Stainless Manifold Block and Mount Plate

Block Part No.	Ports	Weld Plate No.
72-0521-SS	1	72-0551-SS
72-0522-SS	2	72-0552-SS
72-0523-SS	3	72-0553-SS
72-0524-SS	4	72-0554-SS
72-0525-SS	5	72-0555-SS

3/4 UNO Ports



Setting Sleeves

Colour	Output	Part No.
Red	0.25 cc	72-0500
Blue	0.50 cc	72-0501
Gold	0.75 cc	72-0502
Black	1.00 cc	72-0503
Silver	1.25 cc	72-0504

*To suit CL1 Injectors - sold in packs of 10



CL1 Vinyl Injector Cover

Description	Part No.
Vinyl Injector Cover	72-083272

**CL1 Aluminium Injector Cover**

Description	Part No.
Aluminium Injector Cover	72-090537

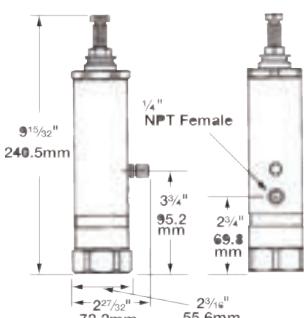
**CL1 Replacement Nipple & Cap Set**

Description	Part No.
Replacement Nipple & Cap Set	72-090471

**CL11 Injectors**

Series	Output		Operating Pressure			Connections		
	Min.	Max.	Min.	Max.	Typical	Vent	Injector Inlet	Injector Outlet
CL11	.050 cu. in. 0.82cc	.500 cu. in. 8.2cc	1000 psi 69 bar	3500 psi 241 bar	2500 psi 172 bar	800 psi 55 bar	1/2 UNO (F)	9/16 UNO (F)

Output with adjustment screw. Total 11½ turns at 0.713cc per turn



Description	Part No.
Replacement CL11 Injector	72-085497

**CL11 Vinyl Injector Cover**

Description	Part No.
Injector Cover	72-083730

**CL11 Replacement Nipple & Cap Set**

Description	Part No.
Replacement Nipple & Cap Set	72-090471



Injectors

Series CL32 Metric Injectors

Output			Operating Pressure				Connections	
SERIES	Min.	Max.	Min.	Max.	Typical	Vent	Inlet	Injector Outlet
CL32	.001 cu. in. 0.16cc	.008 cu. in. 0.131cc	1200 psi 83 bar	3500 psi 241 bar	1500 psi 103 bar	200 psi 14 bar	1/2 UNO (F)	6 mm (LL)

Output with adjustment screw. Total 5 turns at 0.026cc per turn

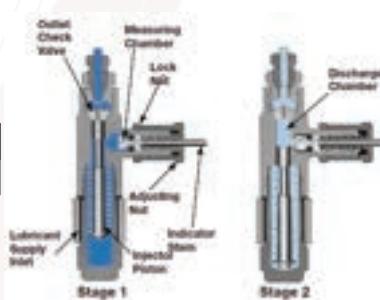


Series CL32 Manifolds

Description	Part No.
CL32 Injector - One Injector Manifold Set	72-085353-1
CL32 Injector - Two Injector Manifold Set	72-085353-2
CL32 Injector - Three Injector Manifold Set	72-085353-3
CL32 Injector - Four Injector Manifold Set	72-085353-4
CL32 Injector - Five Injector Manifold Set	72-085353-5
CL32 Injector - Six Injector Manifold Set	72-085353-6



Description	Part No.
Replacement CL32 Injector - Metric	72-249650



Series CL32 Manifold Block

Block Part No.	Ports	Weld Plate No.
72-0515	1	72-0545
72-0516	2	72-0546
72-0517	3	72-0547
72-0518	4	72-0548
72-0519	5	72-0549
72-0520	6	72-0550



1/2 UNO Ports



CL-32 Bracket

Description	Part No.
Bracket for Manifold	72-045926



Injector Caps

Description	Part No.
Injector Cap - CL32	72-068483



Adaptor Kit

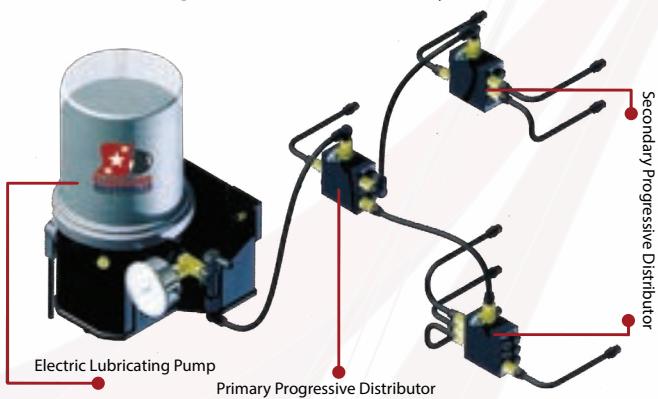
Description	Part No.
7/16 JIC - Male	72-249282
1/4 NPT - Female	72-014988



Progressive Divider Valves (PDV)



Progressive Lubrication System

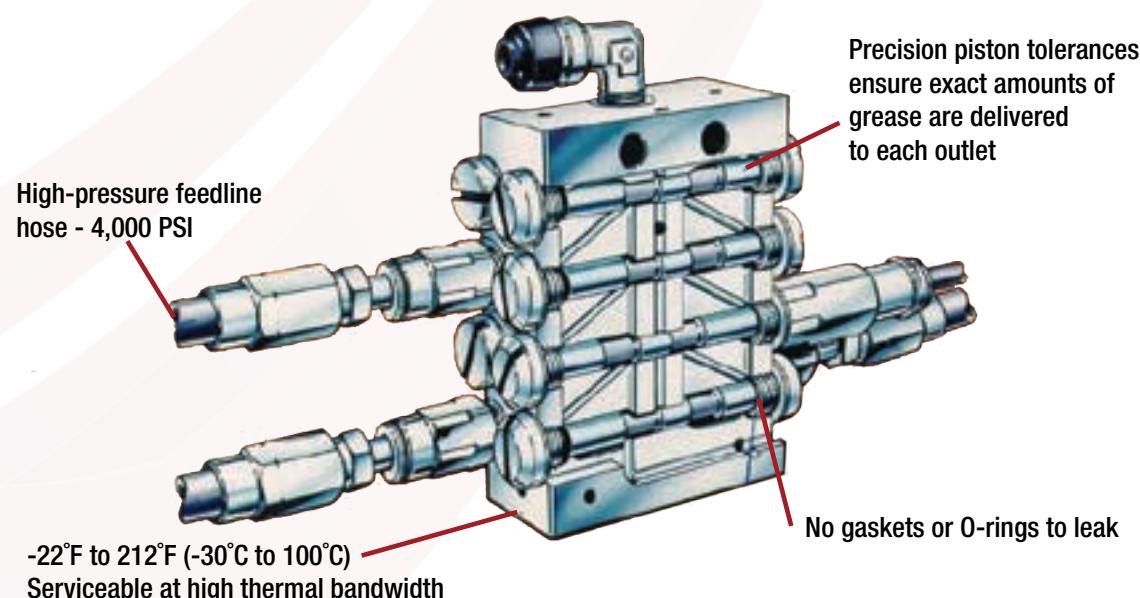


Progressive Lubrication Systems

The progressive lubrication system is designed to provide a more reliable and efficient way to lubricate machinery bearings. By centralising the primary distribution source of lubrication for a machine's grease points, the amount of time needed to properly maintain a piece of equipment is greatly reduced. Downtime due to bearing related failures decreases also. Worker safety is improved by virtually eliminating the need to remove safety guarding, or to crawl into a piece of equipment to access those hard-to-reach grease points.

The Progressive Divider Valve is the heart of each series progressive lubrication system. Each PDV series valve incorporates a number of metering pins that dispense a highly repeatable volume of lubricant to each outlet. Visual confirmation that the valve has completed a full cycle can be provided by a cycle indicator pin or electronic cycle counter.

Stainless steel PDV's are available.



PDV

Description	Part No.
Eurolube PDV6 Progressive Metering Device	72-619-26473-1
Eurolube PDV8 Progressive Metering Device	72-619-25730-2
Eurolube PDV10 Progressive Metering Device	72-619-26841-1
Eurolube PDV12 Progressive Metering Device	72-619-25731-2
Eurolube PDV14 Progressive Metering Device	72-619-28862-1
Eurolube PDV16 Progressive Metering Device	72-619-28863-1
Eurolube PDV18 Progressive Metering Device	72-619-28864-1
Eurolube PDV20 Progressive Metering Device	72-619-28865-1

*Other versions are available



Porting of a Progressive Divider Valve (PDV)

Each outlet on the PDV is marked with a number. By placing an M10x1 closure plug in an outlet, the lubricant is redirected to the next adjacent outlet in descending numerical order. Crossporting allows multiple outlets to be combined together to meet the demands of larger lube points. Special attention must be paid to **never plug outlets 1 and 2**. There are no crossport passages in either of these outlets, plugging them will cause the valve to stop working.

Eg: In figure 1, outlets number 6 and 4 have closure plugs causing the lubricant volume of each to be redirected to outlet 2.

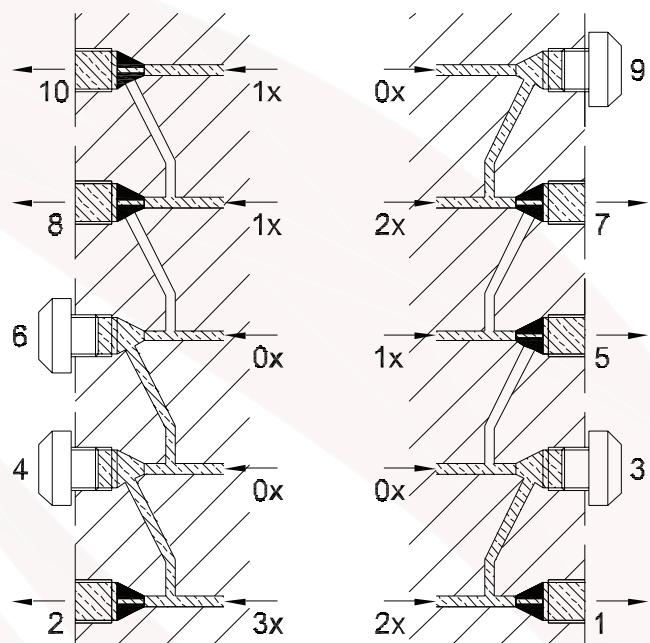


Figure 1

Stainless PDV

Description	Part No.
Eurolube PDV6 Progressive Metering Device	72-619-27471-1
Eurolube PDV8 Progressive Metering Device	72-619-27473-1
Eurolube PDV10 Progressive Metering Device	72-619-27475-1
Eurolube PDV12 Progressive Metering Device	72-619-27477-1
Eurolube PDV14 Progressive Metering Device	72-619-29063-1
Eurolube PDV16 Progressive Metering Device	72-619-29064-1
Eurolube PDV18 Progressive Metering Device	72-619-29065-1
Eurolube PDV20 Progressive Metering Device	72-619-29066-1

*Other versions are available



Progressive Divider Valves (PDV)

Piston Detector



Description	Part No.
Eurolube Piston Detector 3 wire - M10	72-234-13178-9
Eurolube Piston Detector 2 wire, 3m cable	72-234-13178-1
Eurolube Piston Detector Straight Plug - M10	72-237-13442-2
Eurolube Piston Detector 90 Deg Plug - M10	72-237-13442-4
Eurolube Piston Detector 90 Deg Plug + 5m Cable	72-237-13442-3



Closure Plugs

Description	Part No.
Eurolube Closure Plug M10x1 Silver	72-303-17499-6
Eurolube Closure Plug M10x1 Stainless Steel	72-303-19346-2

Outlet Accessories



Description	Part No.
Eurolube External Outlet Combining Kit	72-519-31826-1
Eurolube Combining Tee	72-519-31826-5



Bracket & Weld Plate Kits

Description	Part No.
Eurolube SSV Mount Bracket Kit	72-307-19543-1
Eurolube SSV Weld Plate Kit	72-307-19543-9
Eurolube Stainless Angle Bracket	72-307-19543-3

All include PDV fasteners



PDV Push-In Outlet Valve

Female	Part No.
6mm Push In - Steel	72-226-14091-2
6mm Standard Compression	72-504-30344-4
6mm Stainless Compression	72-504-31705-1

Big 'K' - Box including Greaser Kit

Our combined 40 years of designing, installing and maintaining autolube systems has enabled DMBFT to help the "do-it-yourself installer", by developing a range of "out of the box kits".

The kits come in a number of sizes and formats, starting from a simple starter kit which contains the basic autolube components to a full hardware kit including system components, hose, fittings and mounting accessories.

Our Range includes:

Basic Compact or Injector "K" – the minimum parts for an Autolube system



Big Compact or Injector "K" – containing hardware kit including hose and fittings and standard installation accessories.

Bulk "K" - a heavy duty autolube system designed for mining or heavy construction machines.

Single point "K" - a basic kit containing hose, fittings and manifolds enabling an installer to remote mount grease points back to a single accessible location



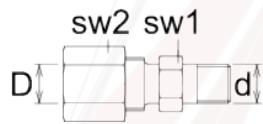
Depending on your level of skill, access to your own installation accessories and with respect to your own ideas, our "K" Kits are easily customisable to support your application.





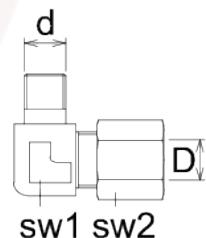
Straight Connector

D	d	sw1	sw2	Series	Part No.
6	M6 x 1	11	12	LL	72-223-12533-9
6	M8 x 1	11	12	LL	72-223-13023-1
6	M10 x 1	11	12	LL	72-223-12271-7
6	1/8 BSPT	11	12	LL	72-223-12270-7
6	1/4 BSPT	11	14	L	72-223-12477-8
6	1/4 BSPP	11	14	L	72-223-12477-1
6	1/8 NPT	11	12	LL	72-223-12273-6
6	1/4 NPT	17	14	L	72-223-13766-2
6	1/4 UNF	11	12	LL	72-223-13752-U
8	1/8 BSPT	14	14	LL	72-223-12270-9
8	1/4 BSPT	14	14	LL	72-223-13621-6
10	1/4 BSPT	17	19	L	72-223-12477-9



90° Connector

D	d	sw1	sw2	Series	Part No.
6	M6 x 1	11	12	LL	72-223-13023-2
6	M8 x 1	11	12	LL	72-223-13023-3
6	M10 x 1	11	12	LL	72-223-13021-3
6	1/8 BSPT	11	12	LL	72-223-12485-9
6	1/4 BSPT	12	14	L	72-223-12380-6
6	1/8 NPT	11	12	LL	72-223-13620-4
8	1/4 BSPT	12	14	LL	72-223-13021-6
10	1/4 BSPT	17	19	LL	72-223-13048-4



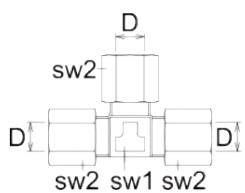
Straight Joiner Connector

D	sw1	sw2	Series	Part No.
6	11	12	LL	72-223-12482-9
8	14	17	L	72-223-12482-8
10	17	19	L	72-223-12482-7



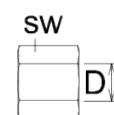
Tee Joiner Connector

D	sw1	sw2	Series	Part No.
6	11	12	LL	72-223-12484-9



Replacement Nut

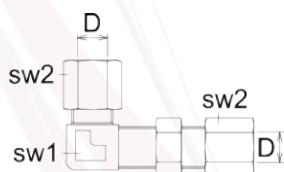
D	sw	Series	Part No.
6	12	LL	72-223-12374-6
6	17	S	72-223-13032-2



Replacement Olive

D	Series	Part No.
6	LL	72-223-12295-2
6	L	72-223-12295-3
6	S	72-223-12295-4

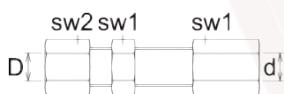


**90° Bulkhead Connector**

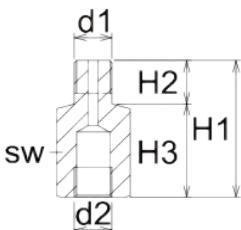
D	sw1	sw2	Series	Part No.
6	12	14	L	72-223-13050-4
8	17	17	L	72-223-13050-6
10	19	19	L	72-223-13050-8

**Straight Bulkhead Connector**

D	sw1	sw2	Series	Part No.
6	17	14	L	72-223-12368-4
8	19	17	L	72-223-12368-6
10	19	19	L	72-223-12368-8

**Grease Nipple to Bulkhead Connector**

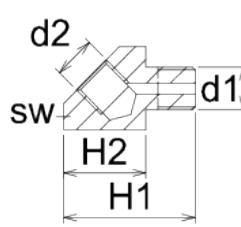
D	d	sw1	sw2	Series	Part No.
6	1/8 BSPT	20	17	L	72-223-12482-4

**Adaptor Extension Piece**

d1	d2	H1	H2	H3	sw	Part No.
1/8 BSPT	M10x1	18	7	11	13	72-304-19230-1
1/8 BSPT	1/8 BSPT	18	7	11	13	72-304-19230-2
1/8 BSPT	1/8 BSPT	23	12	11	13	72-304-19230-4
1/8 BSPT	1/8 BSPT	35	23	12	13	72-304-19230-6
1/8 BSPT	1/8 BSPT	41	29	12	13	72-304-19230-B1
1/8 BSPT	1/8 BSPT	45	33	12	13	72-304-19230-B2
1/8 BSPT	1/8 BSPT	50	38	12	13	72-304-19230-8
1/4 BSPT	1/4 BSPT	25	17	8	17	72-304-19230-B6
1/4 BSPT	1/4 BSPT	85	71	14	17	72-304-19230-B7
1/4 BSPT	1/8 BSPT	20	9	11	17	72-304-19230-B3
1/8 BSPT	1/4 BSPT	22	8	14	17	72-304-19230-B4
1/4 BSPT	3/8 BSPT	27	11	16	22	72-304-19230-B5
1/8 NPT	1/8 NPT	20	9	11	1/2	72-304-19230-N2
1/8 NPT	1/8 NPT	30	18	12	1/2	72-304-19230-N4
1/4-28 UNF	1/8 BSPT	23	12	11	1/2	72-304-19230-UB



*Other sizes available on request

Adaptor Extension 45°

d1	d2	H1	H2	sw	Part No.
M8 x 1	M8 x 1	23	13	13	72-432-24050-1
M10 x 1	M8 x 1	23	13	13	72-432-24051-2
M10 x 1	M10 x 1	23	13	13	72-432-24051-3
1/8 BSPT	1/8 BSPT	23	13	13	72-432-70673-1
1/8 NPT	1/8 NPT	33	13	9/16	72-432-24050-5
1/4 BSPT	1/4 BSPT	23	18	17	72-432-24051-4



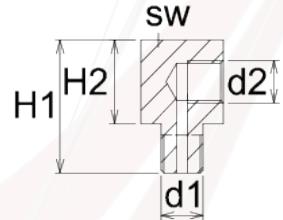
*Other sizes available on request



Adaptor Extension 90°

d1	d2	H1	H2	sw	Part No.
M6 x 1	M6 x 1	23	13	12	72-432-24052-2
M6 x 1	M8 x 1	23	13	12	72-432-24052-3
M8 x 1	M8 x 1	23	13	12	72-432-24043-1
M10 x 1	M8 x 1	23	13	12	72-432-24052-1
M10 x 1	M10 x 1	23	13	12	72-432-24052-4
1/8 BSPT	M8 x 1	23	13	12	72-432-24052-5
1/8 BSPT	1/8 BSPT	23	13	13	72-432-70674-1
1/4 BSPT	1/4 BSPT	33	18	17	72-432-24052-6
1/8 NPT	1/8 NPT	23	13	9/16	72-432-24052-8

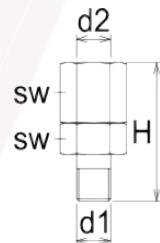
*Other sizes available on request



Straight Swivel

d1	d2	H	sw	Part No.
1/8 BSPT	1/8 BSPT	34	14	72-223-12567-4
1/8 NPT	1/8 NPT	34	14	72-223-12567-3

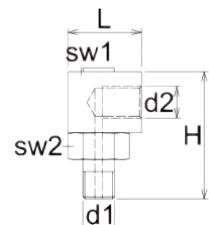
Occasional rotary movement only



90° Swivel

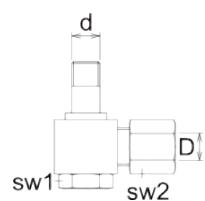
d1	d2	L	H	sw1	sw2	Part No.
1/8 BSPT	1/8 BSPT	29	30	15	14	72-223-12567-2
1/8 NPT	1/8 NSPT	29	30	15	14	72-223-12567-1
1/8 BSPT	6mm (LL)	29	30	15	14	72-223-12567-5
1/8 BSPT	7/16 JIC	29	30	15	14	72-223-12567-9
M10 x 1	1/8 BSPT	29	30	15	14	72-223-12567-B

Occasional rotary movement only



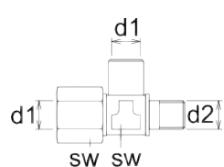
Fixed Banjo

D	d	sw1	sw2	Series	Part No.
6	M10 x 1	12	14	L	72-223-12480-7
6	1/8 BSPT	12	14	L	72-223-12479-9



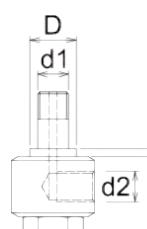
Fixed Banjo Tee

d1	d2	sw	Part No.
M10 x 1	1/8 BSPT	14	72-223-12479-5



HD Fixed Banjo

d1	d2	D	sw	Part No.
1/8 BSPT	1/8 BSPT	20	3	72-223-12479-1
1/8 BSPT	1/8 BSPT	20	8	72-223-12479-2



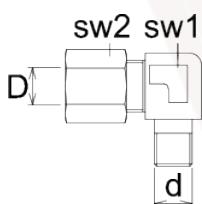
Stainless Straight Connector



D	d	sw1	sw2	Series	Part No.
6	M6 x 1	11	12	LL	72-223-13658-7
6	M8 x 1	11	12	LL	72-223-13658-6
6	M10 x 1	11	12	LL	72-223-13658-5
6	1/8 BSPT	11	12	LL	72-223-13614-9
6	1/4 BSPT	11	14	L	72-223-13658-9
6	1/8 NPT	11	14	LL	72-223-13658-2
8	1/8 NPT	11	12	L	72-223-12270-3
8	1/4 NPT	17	14	L	72-223-12477-3



Stainless 90° Connector



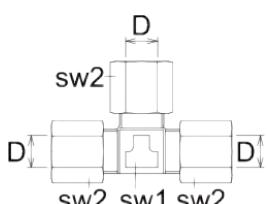
D	d	sw1	sw2	Series	Part No.
6	M6 x 1	11	12	LL	72-223-13023-2
6	M8 x 1	11	12	LL	72-223-13023-3
6	M10 x 1	11	12	LL	72-223-13021-3
6	1/8 BSPT	11	12	LL	72-223-12485-9
6	1/4 BSPT	12	14	L	72-223-12380-6
6	1/8 NPT	11	12	LL	72-223-13620-4
8	1/4 BSPT	12	14	LL	72-223-13021-6
10	1/4 BSPT	17	19	LL	72-223-13048-4



Stainless Straight Joiner Connector



D	sw1	sw2	Series	Part No.
6	11	12	LL	72-223-12454-7
8	14	17	L	72-223-12454-8
10	17	19	L	72-223-12454-9



Stainless Tee Joiner Connector

D	sw1	sw2	Series	Part No.
6	11	12	LL	72-223-12484-9



Stainless M6 x 7/16 Adaptor

d1	d2	Part No.
M6 x 1	7/16 JIC	72-223-13658-J



Stainless Connectors

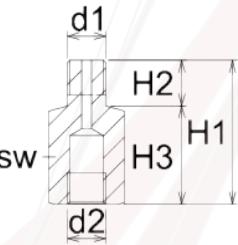
CONNECTORS



Stainless Adaptor Extension Piece

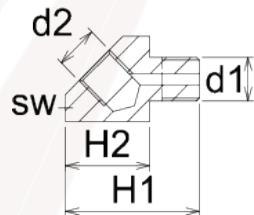
d1	d2	H1	H2	H3	sw	Part No.
1/8 BSPT	1/8 BSPT	18	7	11	13	72-304-19230-3
1/8 BSPT	1/8 BSPT	23	12	11	13	72-304-19230-5
1/8 BSPT	1/8 BSPT	35	23	12	13	72-304-19230-7
1/8 BSPT	1/8 BSPT	50	38	12	13	72-304-19230-9
1/8 NPT	1/8 NPT	48	9	11	1/2	72-304-19230-N6

*Other sizes available on request



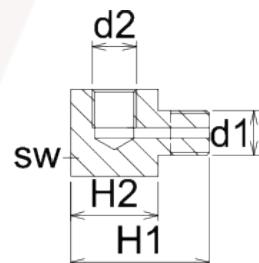
Stainless Adaptor Extension 45°

d1	d2	H1	H2	sw	Part No.
M10 x 1	M10 x 1	23	13	13	72-432-24051-5
1/8 BSPT	1/8 BSPT	23	13	13	72-432-70673-5



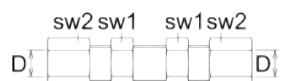
Stainless Adaptor Extension 90°

d1	d2	H1	H2	sw	Part No.
M10 x 1	M10 x 1	23	13	13	72-432-24052-9
1/8 BSPT	1/8 BSPT	23	13	13	72-432-70674-5



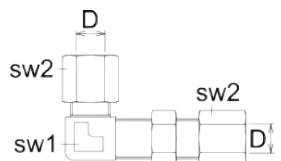
Stainless Straight Bulkhead Connector

D	sw1	sw2	Series	Part No.
6	17	14	L	72-223-12368-4
8	19	17	L	72-223-12368-6
10	19	19	L	72-223-12368-8



Stainless 90° Bulkhead Connector

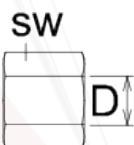
D	sw1	sw2	Series	Part No.
6	12	14	L	72-223-13050-5
8	17	17	L	72-223-13050-7



Stainless Grease Nipple to Bulkhead Connector

D	d	sw1	sw2	Series	Part No.
6	1/8 BSPT	20	17	L	72-223-12482-6




Stainless Replacement Nut

D	sw	Series	Part No.
6	12	LL	72-223-13638-2


Stainless Replacement Olive

D	Series	Part No.
6	LL	72-223-13693-2


Assorted Connector

Female	Part No.
120 Piece Kit - Standard Assortment	72-604-28196-1
50 Piece Kit - Stainless Assortment	72-604-28196-SS


Pressure Ranges Of Fittings

As a rule, nominal pressures for steel fittings have a safety factor of 4 under normal working conditions and temperatures of under 130°C. Working pressure for the stainless steel decreases by approximately 11% at 100°C, and by approximately 20% at 200°C. The following is a general guideline only. Please check with us if precise data is required.

Series	Tube Size	Working Pressure (Bar)		
		Steel	Stainless Steel	Brass
LL	ALL	100	100	100
L	6, 8, 10	400	250	315
L	12, 15	400	250	315
L	18	315	160	315
L	22	315	160	160
L	28, 35, 42	250	100	160
S	6, 8, 10	630	630	630
S	12, 14	630	630	630
S	16	400	400	400
S	20, 25	400	400	400
S	30	400	250	400
S	38	250	250	315

LL = LOW PRESSURE

L = MEDIUM PRESSURE

S = HIGH PRESSURE

Not all fitting systems will be rated for the working pressure shown above. Please see the appropriate catalogue pages for the exact pressure rating for a given fitting. Contact us for more pressure information if required.

LL Series			L Series			S Series		
Tube Size	Thread	Nut	Tube Size	Thread	Nut	Tube Size	Thread	Nut
4	M8 x 1	10	6	M12 x 1.5	14	6	M14 x 1.5	17
5	M10 x 1	10	8	M14 x 1.5	17	8	M16 x 1.5	19
6	M10 x 1	12	10	M16 x 1.5	19	10	M18 x 1.5	22
8	M12 x 1	14	12	M18 x 1.5	22	12	M20 x 1.5	24
			15	M22 x 1.5	27	14	M22 x 1.5	27
			18	M26 x 1.5	32	16	M24 x 1.5	30
			22	M30 x 2	36	20	M30 x 2	36
			28	M36 x 2	41	25	M36 x 2	46
			35	M45 x 2	50	30	M45 x 2	50
			42	M52 x 2	60	38	M52 x 2	60

Fitting Identification For Metric Compression Tube Fittings

Use these measurements with the information on the table above to make a proper identification:

- If the tube nut is available, read the fitting size and series that is stamped onto the nut (i.e. 16-S).
- If no nut is available, or no size can be read for the nut, then identify the fitting by one of the following:

- Measure the tube O.D. and the male compression thread O.D.
- Measure the tube O.D. and size of wrench required for the tube nut
- Measure the O.D. of the compression thread and the I.D. of the fitting body where the tubing will be seated

6mm Snaplink Connectors

CONNECTORS



Plastic Grease Tube

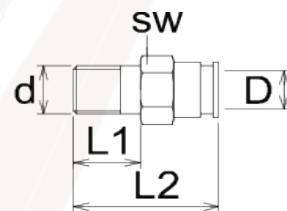
Description	Roll	Working Pressure	Burst Pressure	NGLI Grade	Part No.
Grease filled Tube 6 OD X1.5	100m	89 Bar	210 Bar	000	72-504-36041-100
Grease filled Tube 6 OD X1.5	25m			2	72-504-36041-25
Greaseless Tube 6 OD X1.5	100m	89 Bar	210 Bar		72-112-35127-100
Greaseless Tube 6 OD X1.5	25m				72-112-35127-50

Only use for secondary lines from PDV / Injector to the grease point - Low Pressure Lines
Refer to the Technical Data Pages for further Specifications, MSDS and Assembly Procedures



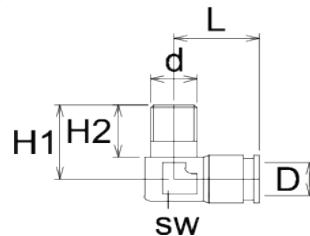
Straight Push-In Connector

D	d	L1	L2	sw	Part No.
6	1/8 BSPT	7.5	21.5	12	72-226-13752-8
6	M6 x 1	8	25.5	12	72-226-13752-7
6	M8 x 1	8	25.5	12	72-226-13752-6
6	1/8 BSPT	8	22	12	72-226-13752-9
6	1/8 NPT	8.5	21.5	12	72-226-13752-N
6	1/4-28 UNF	6	23.5	12	72-226-13752-U



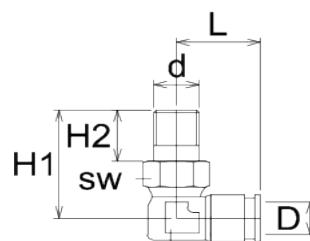
90° Push-In Connector

D	d	L	H1	H2	sw	Part No.
6	M6 x 1	21	16.5	7.5	10	72-226-13753-7
6	M8 x 1	21	16.5	8	10	72-226-13753-8
6	M10 x 1	21	17	8	10	72-226-13753-6
6	1/8 BSPT	21	15	8	10	72-226-13753-4
6	1/8 NPT	21	16	8	10	72-226-13753-N
6	1/4-28 UNF	21	15	7	10	72-226-13753-U



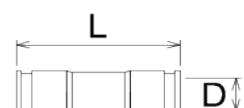
90° Swivel Push-In Connector

D	d	L	H1	H2	sw	Part No.
6	M6 x 1	21	16.5	7.5	10	72-226-13756-7
6	M8 x 1	21	16.5	8	10	72-226-13756-4
6	M10 x 1	21	17	8	10	72-226-13756-5
6	1/8 BSPT	21	15	8	10	72-226-13756-2
6	1/8 NPT	21	16	8	10	72-226-13756-N
6	1/4-28 UNF	21	15	7	10	72-226-13756-U



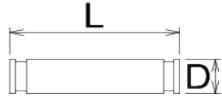
Joiner Push-In Connector

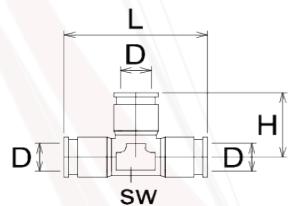
D	L	Part No.
6	31.5	72-226-13773-3



Joiner Push-In Connector

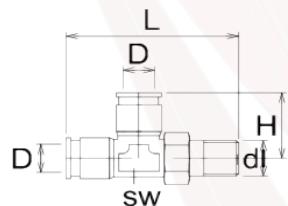
D	L	Part No.
6	40	72-432-24280-1





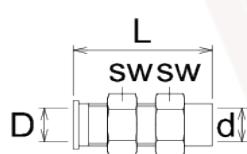
Tee Push-In Connector

D	L	H	SW	Part No.
6	50	25	10	72-226-14097-2



Threaded Tee Push-In Connector

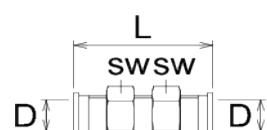
D	d	L	H	SW	Part No.
6	1/8 BSPP	45	25	10	72-226-14097-6



Grease Nipple to Bulkhead Push-In Connector

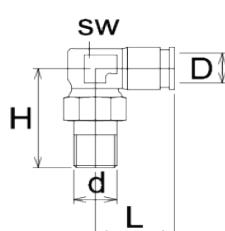
D	d	L	SW	Part No.
6	1/8 BSPT	45	10	72-226-13755-7
6	1/4 BSPT	45	10	72-226-13755-4

*Grease Nipple not included



Bulkhead Push-In Connector

D	L	SW	Part No.
6	45	10	72-226-13755-1



Swivel Banjo Push-In Connector

D	d	L	H	Part No.
1/8 BSPP x 6mm	M10 x 1	21	15	72-223-10223-5
M10 x 6mm	1/8 BSPP	21	15	72-223-10223-1



Push-In Protector Cover

Female	Part No.
6mm	72-432-24280-1



Snaplink Connectors Joiner Kit

Female	Part No.
120 Piece Kit	72-604-28196-1



Eurolube Assortment Kits

- Adaptors
- HP Connector
- Snaplink
- Hose Tails
- Grease Nipples
- Stainless Fittings
- Custom Built



Check the eurolube.com.au website for details

ASSORTMENT KITS



ASSORTMENT KITS



8.6mm Grease Hose & Tails



Polyamide Grease Hose

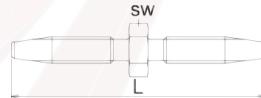
Description	Roll	Working Pressure	Burst Pressure	NGLI Grade	Part No.
8.6 x 4.0mm Grease filled Hose	50m	350 Bar	840 Bar	2	72-504-36033-50
8.6 x 4.0mm Grease filled Hose	25m			2	72-504-36723-25
8.6 x 4.0mm HP Hose	100m	350 Bar	840 Bar		72-111-35114-100
8.6 x 4.0mm HP Hose	50m				72-111-35114-50

*Refer to the technical data pages for further specifications, MSDS and assembly procedures



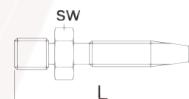
Hose Stud - Straight Joiner

Hose Dia.	L	SW	Part No.
8.6	21.5	10	72-432-24280-5



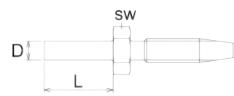
Hose Stud - Nut/Olive

Tube Dia.	L	SW	Part No.
6 mm	39	10	72-432-24162-0



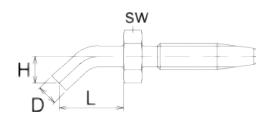
Hose Stud - Straight

D	L	SW	Part No.
6	20	10	72-432-24162-2
6	30	10	72-432-23067-2



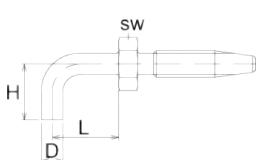
Hose Stud 45°

D	L	H	SW	Part No.
6	24	15	10	72-532-32183-9
6	35	25	10	72-532-32183-2



Hose Stud 90°

D	L	H	SW	Part No.
6	13	21	10	72-532-30736-2
6	17	29	10	72-532-30737-2
6	28	37	10	72-532-30739-2
6	28	53	10	72-532-30738-2



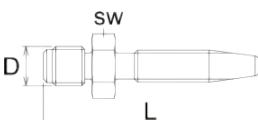
Threaded Sleeve

L	SW	Part No.
28	12	72-432-23031-2

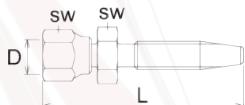


Hose Stud - 7/16 JIC Male

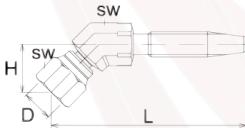
D	L	SW	Part No.
7/16 JIC	47	14	72-432-24280-J



Hose Stud - 7/16 JIC Straight



D	L	SW	Part No.
7/16 JIC	51	14	72-432-24162-J

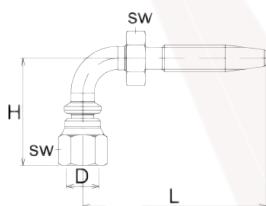


Hose Stud - 7/16 JIC Compact 45°

D	L	H	SW	Part No.
7/16 JIC	58	14	16	72-532-32183-J



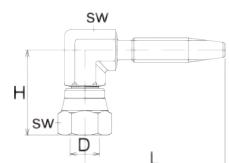
Hose Stud - 7/16 JIC 90°



D	L	H	SW	Part No.
7/16 JIC	54	33	14	72-532-30738-J



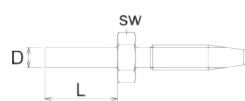
Hose Stud - 7/16 JIC Compact 90°



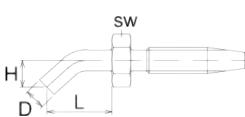
D	L	H	SW	Part No.
7/16 JIC	35	26	17	72-532-30737-J



Stainless Hose Stud - Straight

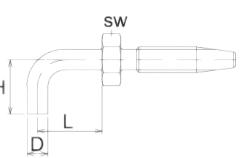


D	L	SW	Part No.
6	20	10	72-432-23675-1



Stainless Hose Stud 45°

D	L	H	SW	Part No.
6	35	25	10	72-432-23678-1



Stainless Hose Stud 90°

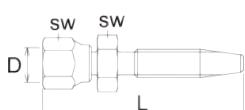
D	L	H	SW	Part No.
6	35	25	10	72-432-23678-1



Stainless Threaded Sleeve



L	SW	Part No.
28	12	72-432-23676-1



Stainless Hose Stud - 7/16 JIC Straight

D	L	SW	Part No.
7/16 JIC	51	14	72-432-24162-J



11.3mm Grease Hose & Tails



Polyamide Grease Hose

Description	Roll	Working Pressure	Burst Pressure	NGLI Grade	Part No.
11.3 x 6.3mm Greasefilled Hose	100m	350 Bar	840 Bar	2	72-111-35301-8
11.3 x 6.3mm HP Hose	100m	350 Bar	840 Bar		72-111-35301-6

*Refer to the technical data pages for further specifications



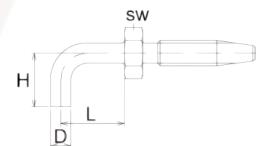
Hose Tail - Straight - 11.3 Hose

D	L	SW	Part No.
6	20	12	72-226-10087-2
8	20	12	72-226-10087-3
10	30	12	72-226-10087-4



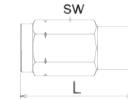
Hose Tail - 90° - 11.3 Hose

D	L	H	SW	Part No.
6	22	45	12	72-226-10087-5
8	23	36	12	72-226-10087-6
10	23	36	12	72-226-10087-8



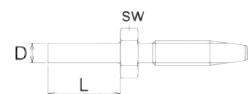
Threaded Sleeve - 11.3 Hose

L	SW	Part No.
35.8	17	72-432-23031-6



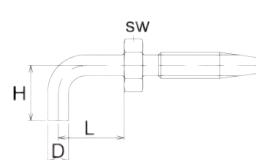
Stainless Hose Tail - Straight - 11.3 Hose

D	L	SW	Part No.
6	20	12	72-432-23675-2
8	20	12	72-432-23675-3



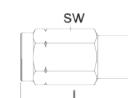
Stainless Hose Tail - 90° - 11.3 Hose

D	L	H	SW	Part No.
8	23	36	12	72-432-23677-5



Stainless Threaded Sleeve - 11.3 Hose

L	SW	Part No.
38.5	17	72-432-23676-6



Tube Clamp - Rubber Coated

Tube Size	Part No.
6	72-226-12557-1
9	72-226-12557-2
10	72-226-12557-7
12	72-226-12557-3
15	72-226-12557-4
20	72-226-12557-6



Tube Clamp - Plastic Coated

Tube Size	Part No.	Tube Size	Part No.
6.3	74-226-12558-1	31.7	74-226-12559-6
9.6	74-226-12558-2	33.3	74-226-12559-7
11.2	74-226-12558-3	38.1	74-226-12559-8
12.7	74-226-12558-4	39.6	74-226-12559-9
14.2	74-226-12558-5	44.4	74-226-12560-1
16.0	74-226-12558-6	46.0	74-226-12560-2
17.5	74-226-12558-7	50.8	74-226-12560-3
19.0	74-226-12558-8	52.3	74-226-12560-4
20.6	74-226-12558-9	57.1	74-226-12560-5
23.9	74-226-12559-1	63.5	74-226-12560-6
25.4	74-226-12559-2	66.8	74-226-12560-7
26.9	74-226-12559-3	69.8	74-226-12560-8
28.7	74-226-12559-4	73.1	74-226-12560-9
30.2	74-226-12559-5	90.4	74-226-12561-1



Heavy Duty Hose Support Clamps

Tube Size	Part No.	Tube Size	Part No.
6	74-226-13716-1	28	74-226-13718-1
6.4	74-226-13716-2	30	74-226-13718-2
8	74-226-13716-3	32	74-226-13718-3
9.5	74-226-13716-4	33.7	74-226-13718-4
10	74-226-13716-5	35	74-226-13718-5
12	74-226-13716-6	38	74-226-13718-6
12.7	74-226-13716-7	40	74-226-13718-7
13.5	74-226-13716-8	42	74-226-13718-8
15	74-226-13716-9	44.5	74-226-13718-9
16	74-226-13717-1	48.3	74-226-13719-1
17.2	74-226-13717-2	50.8	74-226-13719-2
18	74-226-13717-3	55	74-226-13719-3
19	74-226-13717-4	57.2	74-226-13719-4
20.5	74-226-13717-5	63.5	74-226-13719-5
22	74-226-13717-6	65	74-226-13719-6
25	74-226-13717-7	70	74-226-13719-7
25.4	74-226-13717-8	76.1	74-226-13719-8
26.9	74-226-13717-9	102	74-226-13719-9



Standard Duty with Weld Base

Heavy Duty add
• Letter "H" to code

Twin Pipe Clamp add
• Letter "T" to Code



Flexible Plastic Helix Wrap

Description	Roll	a	da	s	Part No.
Wrap	25 m	10	6	1	72-113-35075-2
Wrap	25 m	10	11.5	1.5	72-113-35075-6



Stainless Steel Coil Wrap

Description	Roll		di	d	Part No.
Coil	2 m		10.6	1.2	72-111-35306-2
Coil	5 m		10.6	1.2	72-111-35306-5
Coil	5 m		16.5	1.2	72-111-35306-8



Cable Sleeves

Tube Size	Part No.
6	72-237-13375-1
9	72-237-13375-2
15	72-237-13375-3



Pipe Sleeve

Pipe Size	Tube	Part No.
15 - 22 mm	3 x 6mm	72-432-23774-1



Cable Ties

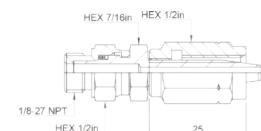
Description		Size		Pack Size	Part No.
Small	150	x	3.6 mm	100	02-226-12490-3
Medium	203	x	4.6 mm	100	02-226-12490-4
Large	300	x	4.8 mm	100	02-226-12490-5
Heavy	300	x	7.6 mm	100	02-226-13095-1
Extra Large	550	x	8.0 mm	100	02-226-12490-6
Extra Long	762	x	9.0 mm	100	02-226-12490-7



1/8 NPT Male Swivel Hose Stud and Sleeve Kit

Description	Part No.
1/8 NPT Male Swivel Hose Stud and Sleeve Kit	72-246002

Suits USA style hoses and machinery. Not to be used on Eurolube 8.6 x 4.0 hose



High Impact Pipe



O.D.	W.T.	Nominal Bore	Min. Length	W.P.	Part No.
10mm	3mm	4mm	1m	600	72-104-35015-1
13mm	4mm	5mm	1m	600	72-104-35015-2
22mm	4.8mm	12mm (½")	1m	600	72-104-35015-3
27mm	3.9mm	19mm (¾")	1m	400	72-104-35015-4
34mm	4.65mm	25mm (1")	1m	350	72-104-35015-5



Seamless Tube - Nickel Plated



O.D.	W.T.	Description	Min. Length	W.P.	Part No.
6mm	1	Nickel Plated Steel Tube	6m	444	72-226-12557-1
8mm	1	Nickel Plated Steel Tube	6m	333	72-226-12557-2
10mm	1	Nickel Plated Steel Tube	6m	282	72-226-12557-7
12mm	1.5	Nickel Plated Steel Tube	6m	352	72-226-12557-3
15mm	1.5	Nickel Plated Steel Tube	6m	282	72-226-12557-6
1/4"	1.22	Nickel Plated Steel Tube	6m	306	72-226-12557-6
3/8"	1.63	Nickel Plated Steel Tube	6m	277	72-226-12557-6
1/2"	1.63	Nickel Plated Steel Tube	6m	362	72-226-12557-4
3/4"	2.03	Nickel Plated Steel Tube	6m	300	72-226-12557-6
1"	2.64	Nickel Plated Steel Tube	6m	293	72-226-12557-6



*Other sizes available on request

Stainless Seamless Tube - 316

O.D.	W.T.	Description	Min. Length	W.P.	Part No.
6mm	1	Stainless 316 Tube	6m	374	72-106-35065-1
8mm	1	Stainless 316 Tube	6m	281	72-106-35065-2
10mm	1	Stainless 316 Tube	6m	238	72-106-35065-3
12mm	1.5	Stainless 316 Tube	6m	297	72-106-35065-4
15mm	1.5	Stainless 316 Tube	6m	238	72-106-35065-5
1/4"	1.22	Stainless 316 Tube	6m	517	72-106-35068-1
3/8"	1.22	Stainless 316 Tube	6m	331	72-106-35068-2
1/2"	1.65	Stainless 316 Tube	6m	309	72-106-35068-3
3/4"	2.11	Stainless 316 Tube	6m	263	72-106-35068-4
1"	2.11	Stainless 316 Tube	6m	225	72-106-35068-5



*Other sizes available on request

Eurolube carry a large range of premium quality hydraulic hose, hose tails and fittings within their hydraulic range.

Contact our stockist or directly through the Eurolube Australia web site portal.

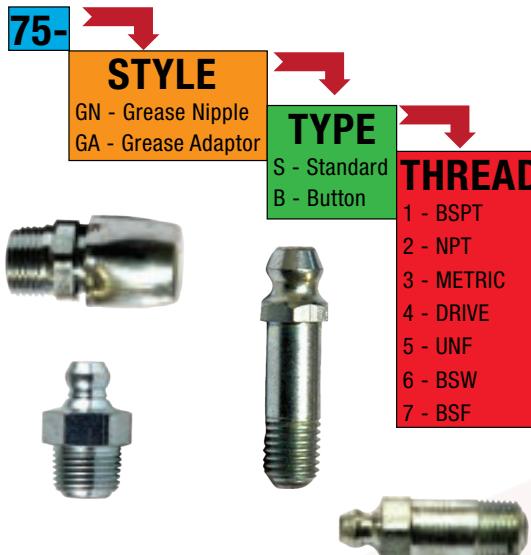
O.D: Outside Diameter

W.T: Wall Thickness

W.P: Working Pressure (Bar)



Eurolube Grease Nipple Matrix



*Available in loose, bulk or blister packs

Part # Example:

75-GNS100210SS

TYPE
Standard

ANGLE
Straight

LENGTH

STYLE
Grease Nipple

THREAD
BSPT

SIZE
1/8"

MATERIAL



MATERIAL

- Standard (Std)
- SS Stainless Steel 316/304
- B Brass

* Standard finish is White Zinc

Grease Nipple Kit



Accessory Description	Part Number
Deluxe Metric Assortment 100 pieces	75-005186
Deluxe Imperial Assortment 100 pieces	75-005469
Automotive Grease Nipple Assortment 115 pieces	75-005185
Agriculture Grease Nipple Assortment 120 pieces	75-005184
Stainless Steel Grease Nipple Assortment 80 pieces	75-005470



Grease Nipple Matrix Cap



Accessory Description	Part Number
Red	75-005221
Blue	75-005222
Green	75-005223
Yellow	75-005224
Black	75-005220



Check Valve Grease Nipple Kit



Accessory Description	Part Number
HP Grease Nipple & Cap M10x1	72-251-14040-A
HP Grease Nipple & Cap 1/8 BSP	72-251-14040-B

*Suitable for use in high pressure single line and progressive divider valves.
Internal check valve for use in high back pressure applications

Manifold Block T-port

Block Type	Part No.
Eurolube Manifold Block T-port 1 Hole	72-532-32454-1
Eurolube Manifold Block T-port 2 Hole	72-532-32454-2
Eurolube Manifold Block T-port 3 Hole	72-532-32454-3
Eurolube Manifold Block T-port 4 Hole	72-532-32454-4
Eurolube Manifold Block T-port 5 Hole	72-532-32454-5
Eurolube Manifold Block T-port 6 Hole	72-532-32454-6
Eurolube Manifold Block T-port 8 Hole	72-532-32454-8



Stainless Manifold Block

Block Type	Part No.
Eurolube Manifold Block 1 Hole SS	72-532-32454-1S
Eurolube Manifold Block 2 Hole SS	72-532-32454-2S
Eurolube Manifold Block 3 Hole SS	72-532-32454-3S
Eurolube Manifold Block 4 Hole SS	72-532-32454-4S
Eurolube Manifold Block 5 Hole SS	72-532-32454-5S
Eurolube Manifold Block 6 Hole SS	72-532-32454-6S
Eurolube Manifold Block 8 Hole SS	72-532-32454-8S



Vent Fitting

Pressure	Size	Part Number
0.0 Bar	1/8 BSPT	77-300805
0.008 Bar	1/8 BSPT	77-304810
0.03 Bar	1/8 BSPT	77-131000



Pressure	Size	Part Number
0.0 - 0.07 Bar	1/8 BSPT	77-317400
1 - 1.7 Bar	1/8 BSPT	77-323060
3.1 - 5.5 Bar	1/8 BSPT	77-47100



Nipple Tool

Accessory Description	Part Number
All in one Tool to Extract fittings with 1/4" x 28 thread	77-B315790
All in one Tool to Extract fittings with 1/8" thread	77-B315791



Grease Joint Cleaner

Accessory Description	Part Number
The Joint Cleaner for unclogging grease fittings	77-339841





Heavy Duty Grease Gun

Description	Part Number
400gm Lever Operated Grease Gun	75-500
450gm Lever Operated Grease Gun	75-500A



Pistol Grease Gun

Description	Part Number
400gm Pistol Grip Grease Gun	77-555
450gm Pistol Grip Grease Gun	75-555A



Air Operated Grease Gun

Description	Part Number
400gm Pistol Grip Grease Gun	75-25770
450gm Pistol Grip Grease Gun	75-25770A



Cordless Grease Gun

Description	Part Number
400gm Pistol Grip Grease Gun	77-596-D
450gm Pistol Grip Grease Gun	77-596-AUD
Replacement Battery	77-343291

Eurolube has a range of manual, air pumps, control guns, meters and dispensers that can be supplied in kits with reels and custom arrangements. Please check our website for our catalogue.



1/8 BSPTM High Pressure Hose

Coupler	Length	Part Number
n/a	200mm	77-26731
n/a	300mm	77-26732
n/a	400mm	77-26733
77-26730	300mm	77-26717



High Pressure Swivel

Coupler	Connection	Part Number
1/4 BSP Male	1/4 BSP Female	77-26725
1/4 BSP Male	1/2-27 SAE	77-26727
1/8 BSP Male	1/2-27 SAE	77-26729
1/4 BSP Male	1/4 BSP Female	77-26726
1/8 BSP Male	1/8 BSP Female	77-26728



Grease Connector

Description	Part Number
4 Jaw Chuck	77-26721
4 Jaw Chuck with Check Valve	77-26723
3 Jaw HD Chuck	77-26722
Button Head Push & Pull	77-26730
360 Swivel	77-6509-D



Grease Connector

Description	Part Number
6 mm diameter Needle	77-2169182
6 mm diameter Needle 45 Deg	77-2169183
1.4 mm diameter Needle	77-2169184
2.6 mm diameter Needle	77-2169185



Grease Connector Kit

Description	Part Number
Needle Nozzle Kit	75-ADX-GAKIT1





REFERENCE SECTION

TECH SHEETS

MSDS



Pressure Ranges of Fittings

As a rule, nominal pressures for steel fittings have a safety factor of 4 under normal working conditions and temperatures of under 130°C. Working pressure for the stainless steel decreases by approximately 11% at 100°C, and by approximately 20% at 200°C. The following is a general guideline only. Please check with us if precise data is required.

Series	Tube Size	Working Pressure (Bar)		
		Steel	Stainless Steel	Brass
LL	ALL	100	100	100
L	6, 8, 10	400	250	315
L	12, 15	400	250	315
L	18	315	160	315
L	22	315	160	160
L	28, 35, 42	250	100	160
S	6, 8, 10	630	630	630
S	12, 14	630	630	630
S	16	400	400	400
S	20, 25	400	400	400
S	30	400	250	400
S	38	250	250	315

LL = LOW PRESSURE L = MEDIUM PRESSURE S = HIGH PRESSURE

Not all fitting systems will be rated for the working pressure shown above. Please see the appropriate catalogue pages for the exact pressure rating for a given fitting. Contact us for more pressure information if required.

LL Series			L Series			S Series		
Tube Size	Thread	Nut	Tube Size	Thread	Nut	Tube Size	Thread	Nut
4	M8 x 1	10	6	M12 x 1.5	14	6	M14 x 1.5	17
5	M10 x 1	10	8	M14 x 1.5	17	8	M16 x 1.5	19
6	M10 x 1	12	10	M16 x 1.5	19	10	M18 x 1.5	22
8	M12 x 1	14	12	M18 x 1.5	22	12	M20 x 1.5	24
			15	M22 x 1.5	27	14	M22 x 1.5	27
			18	M26 x 1.5	32	16	M24 x 1.5	30
			22	M30 x 2	36	20	M30 x 2	36
			28	M36 x 2	41	25	M36 x 2	46
			35	M45 x 2	50	30	M45 x 2	50
			42	M52 x 2	60	38	M52 x 2	60

Fitting Identification For Metric Compression Tube Fittings

Use these measurements with the information on the table above to make a proper identification:

- If the tube nut is available, read the fitting size and series that is stamped onto the nut (i.e. 16-S).
- If no nut is available, or no size can be read for the nut, then identify the fitting by one of the following:

- Measure the tube O.D. and the male compression thread O.D.
- Measure the tube O.D. and size of wrench required for the tube nut
- Measure the O.D. of the compression thread and the I.D. of the fitting body where the tubing will be seated

High Pressure Hoses - 600 to 840 Bar



Eurolube 600-840 bar high-pressure hoses are suitable for grease and central lubrication systems of all conventional lubrication system manufacturers.

A Special Feature in Advance:

The structure of this type of high-pressure hose (600-840 bar) is such that an inner polyamide 6 (PA6) lube is encased and embedded in polyester mesh. The outer polyurethane coat is adhered onto the polyester mesh and the inner tube. Only this structure provides the required high compressive strength to our hose and ensures indispensable safety for assembly. Of course, the hose is also guaranteed to provide high flexibility.

High Pressure Hose Assembly

- Use the high pressure hose in the high pressure area i.e. between the pump, main metering device and secondary metering devices.
- Adhere to the pressures and bending radiiuses mentioned in the "Technical Data" when installing the parts and operating the device.

Installing the threaded sleeves and hose studs on the high pressure hose

Screw threaded sleeve, item 1 Fig. 7, counter clockwise onto high-pressure hose (2) until illustrated dimension of 11mm is reached. Then screw hose stud (3) into threaded sleeve(1) clockwise.

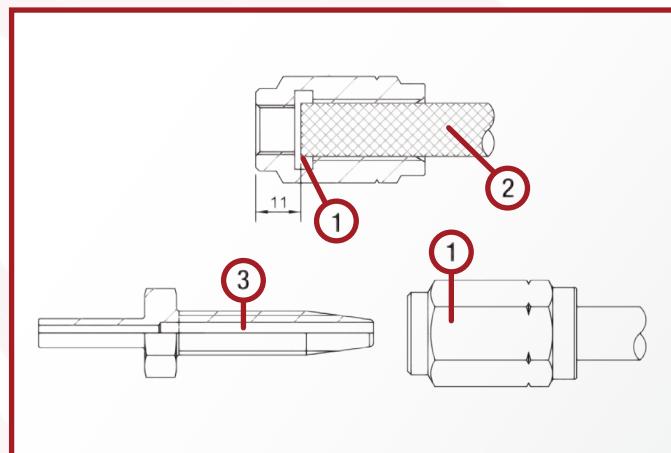


FIG. 7 Preassembly of threaded sleeves and hose studs on the high-pressure hose.

1. Threaded sleeve
2. High-pressure hose 9.6 x 4mm
3. Hose stud



IMPORTANT

Before screwing the parts 1 and 3, rub the thread with oil.

NOTE

The outside diameter of the high-pressure hose may show variations in dimensions. In such a case, press the threaded sleeve (1) at the end where it will be screwed onto the high-pressure hose so that it becomes oval in shape (1 to 2mm). This will prevent the high-pressure hose from being pushed out of the sleeve when the hose stud is screwed.

High Pressure Hoses - 840 Bar

Technical Information

		8.6 x 4.0 mm		11.3 x 6.3 mm	
		Inner Tube	Casing	Inner Tube	Casing
Material		Termoplastic Polyamide 6	Termoplastic Polyurethane	Termoplastic Polyamide 6	Termoplastic Polyurethane
Tear strength	DIN EN ISO 527	> 30N/mm ²	> 18N/mm ²	> 30N/mm ²	> 18N/mm ²
Elongation at break	DIN EN ISO 527	> 50%	> 380%	> 180%	> 380%
Hardness shore	DIN EN ISO 868	> D 60 +/- 3	> D 88 +/- 3	> D 60 +/- 3	> D 88 +/- 3
Permissible bending radius		20°C > 20mm	> D 88 +/- 3		

Operating Temperature	-40°C to 80°C for mediums to be pumped with "grease with corrosion protection additives": max 70°C
Cracking Pressure	DIN EN ISO 1402 pressure: 60s 20°C > 840 bar (84 MPa, 12184 psi), 60°C > 460 bar

Sizes & Tolerances

Nominal Size	4.0 x 8.6 mm d (internal & external)	6.3 x 11.3 mm
Inner Diameter	3.90 - 4.10 mm	6.2 - 6.5 mm
External Diameter	8.50 - 8.75 mm	11.1 - 11.5 mm
Wall Thickness Eccentricity	max. 0.40 mm	max. 0.35 mm

Colour

Inner Tube	Natural
Casing	Black
Cable Armour	White
Glue	Green - Transparent
Print	White

6mm Plastic Tube

Eurolube 600-840 bar high-pressure hoses are suitable for grease and central lubrication systems of all conventional lubrication system manufacturers.

Plastic tubes/ nylon tubings semi rigid PA 12 HL

Standard: DIN 73378

Mounting advise: Please always use reinforcing sockets for plastic tubes. 104-203 for item N°.100-010 and 106-203 for item N° 4510-001

Operative pressure for Ø 4 x 0,85 and 23°C: approx. 1044 PSI / 7 MPA / 72 bar

Operative pressure for Ø 6 x 1,25 and 23°C: approx. 1015 PSI / 7 MPA / 70 bar

Operative pressure for Ø 6 x 1,5 and 23°C: approx. 1291 PSI / 9 MPA / 89 bar

Item No.	Colour	Description	Grease	D	D1	S	m / coil
100-010	black	4 x 0.85 empty		4	2.3	0.85	50
4511-100	black	4 x 0.85	NLGI class 000	4	2.3	0.85	50
100-009-25	black	6 x 1.5	NLGI class 2	6	3.0	1.5	50
100-004	black	6 x 1.5	NLGI class 000	6	3.0	1.5	100
100-003-25	black	6 x 1.5 empty		6	3.0	1.5	25
100-003	black	6 x 1.5 empty		6	3.0	1.5	100
4510-001	transparent	6 x 1.25 empty		6	3.5	1.25	100

Standard: 73378 + Cetop

Mounting advise:

Please do always use reinforcing sockets, item No.104-203, for plastic tubes with Ø4 x 0,85

Operating pressure: approx. 36 Bar/ 580 PSI/ 4 MPA

Item No.	Colour	Description	Grease	D	D1	S	m / coil
100-005	black	4 x 0.85	NLGI class 000	4	2.3	0.85	50
100-006	black	4 x 0.85 empty		4	2.3	0.85	50
100-006-T	transparent	4 x 0.85 empty		4	2.3	0.85	50

Our plastic tubes/ tube lines are used in lubrication systems to connect the progressive distribution unit with the lubrication point or the re-lubrication distributor {or piston distributor} to the lubrication point.

Technical Informations

Material:

Plastic tube, semi-flexible: PA 12 HL

Plastic tube, flexible: PA 12 PHL

Standard: DIN 73378 + Cetop

Types:

PA 12 PHL, natural-coloured or transparent with black print; either unfilled or filled with NLGI viscous oil, class 000.

PA 12 HL are black with white print, They are either unfilled or filled with NLGI viscous oil, class 000, or NLGI grease, class 2.

Material properties:

Both plastic tubes {PA 12 HL and PA 12 PHL} are free of plasticisers, and resistant to light or heat-induced ageing.

Permissible media:

Excellent resistance to oil, grease and lubricants, and to all types of fuels and chlorine-free cleaning agents and solvents.
Application for other media than those stated above, only upon request!

Permissible operating temperature: ca. - 60 °C to + 80 °C

Operating pressure at 23° C: for ø6 x 1.5 approx. 89 bar, 1291 PSI, 9 MPa for ø6 x 0.85 approx. 72 bar, 1044 PSI, 7 MPa

The permissible operating pressures according to DIN 73378 are calculated by means of the following formula:

$$\frac{P = 20 \cdot \sigma V \cdot s}{dm}$$

s = nominal wall thickness [mm]; dm = da - s; V = reference stress N/mm² at 23 °C

Important advice for assembly!

Our PA 12HL plastic tubes according to DIN 73378 in the dimension 6x1.5 (i.e. 6 mm outer diameter and 1.5 mm wall thickness= 3 mm inner diameter) are also referred to as poly tube 6x3. For these tubes, use of a push-in socket is not required. Assembly together with a cutting ring fitting, equal to use of our push-in fitting, is easy and straight forward.

In contrast to that, push-in sockets or reinforcement sockets must be used for PA 12 PHL polyamide tubes with wall thickness of 0.85 mm.

Please note that push-in sockets that are "lost" or "forgotten" during assembly, may result in severe problems and major damage.

As a general rule, we recommend using push-in sockets if the wall thickness of a plastic tube is </= 1.25 mm.
In our capacity as manufacturer, we would like to make our customers aware that assembly of our components for central lubrication (tubes, hoses, screw fittings, ...) must only be performed by appropriately trained and qualified personnel.

In borderline cases, it is advisable to consult us beforehand. Have the tubes mounted only by qualified and/or accordingly trained personnel.

Low pressure range (secondary metering device):

Connect the pressure plastic tube (ø 6 x 1.5 mm) to the check valve with standard collet (knurled collet) and to the inlet fittings towards the lubrication point (knurled collet)

Note: Exceptionally the high pressure hose (ø 8.6 x 2.3 mm) with threaded sleeve and hose stud may also be used for the low pressure section.

Applications for construction machines or agricultural machines, however, require the use of check valves and inlet fittings (towards the lubrication point) with reinforced collet for the low pressure range. Refer to parts catalogue.

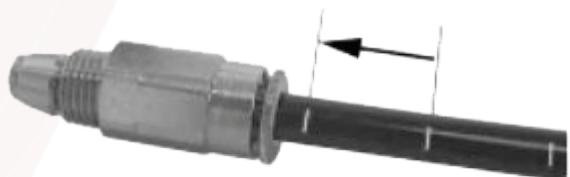


fig. 1

The pressure plastic tubes are marked with white lines (fig 1) as an installation aid.
Cut the pressure plastic tube off at one of the white lines before it is mounted. Then
insert the plastic tube into the fitting up to the next white mark. This will ensure a correct
installation of the pressure plastic tube in the threaded tube fitting.

Protection Cap for Push-In type fittings

To prevent dirt from entering the system, the push-in type fittings, check valves and pressure relief valves can be equipped with protective caps (fig 2).



fig. 2

Grease AF-2 NLGI 2 400-001

EP-multipurpose lithium-based grease

GREASE 400-001 is natural coloured lithium based EP Multi-purpose grease with distinct high pressure additivation. GREASE 400-001 is also additized with components for an increasing oxidation stability and corrosion protection.

GREASE 400-001 is for applications like roller bearings with high and temporary jerky compressive load and vibrations at normal and increasing temperatures. Based on the smooth texture is GREASE 400-001 excellent pumpable in all kinds of central lubrication systems and ensured also the application in machines with increasing requirements.

Characteristics:

- Provides protections against frictional corrosion and abrasion
- Application temperatures from -30°C to +120°C, temporary up to 130°C
- Does not contain solid lubricants
- Oxidation resistant and stable while penetration
- Water resistant and adherent good corrosion protection and high ability of pressure absorption

NLGI grade	2	DIN 51818
Viscosity at +40 °C	190 mm ² /s	DIN EN ISO 3104
Drop point	190 °C	DIN ISO 2176
Stability while penetration	280 till 310	DIN ISO 2137
Water resistance	1 – 90	DIN 51807
Corrosion protection	Grade 0/0	DIN 51802
Copper corrosion	1 – 100	DIN 51811
SKF-running test 120 °C	Passed	DIN 51806
Lubricating grease period of usage at 120 °C	F50 >150 h	DIN 51821
Soap base	Li-12-Hydroxystearat	DIN 51558

Before using please notice the regulations of the manufacturer concerning the characteristics of quality, the environmental temperature and the intervals of oil changes.

Health protection:

With the use of lubricants it is necessary to consider the general rules of employment protection. For more information please see the material safety data sheet.

Eurolube Australia Service: Sales representatives, chemists and engineers are available at any time to state any application technology advices.



Common Hydraulic Threads

BSPT & BSPP Threads

BSP 15 BRITISH STANDARD PIPE

BSPT 15 BRITISH STANDARD PIPE TAPER

BSPP 15 BRITISH STANDARD PIPE PARALLEL

ALSO KNOWN AS WHITWORTH 55 THREAD FORM

THREAD FORM PER AS 1722.1, BS 21, ISO7-1,

DIN 3852-2 FORM C (MALE), DIN 3852-2 FORM Z (FEMALE)

THREAD FORM PER AS 1722.2, ISO 228 (THREAD TYPE), ISO 1179

BSPT male threads seal against threads of fixed BSPT female.

Contact is made on the flanks of the threads. Use of a thread sealant is recommended for BSPT male to BSPT female connections.

Measure the BSPT male thread OD and female thread ID at the first full thread near the end of the fitting.

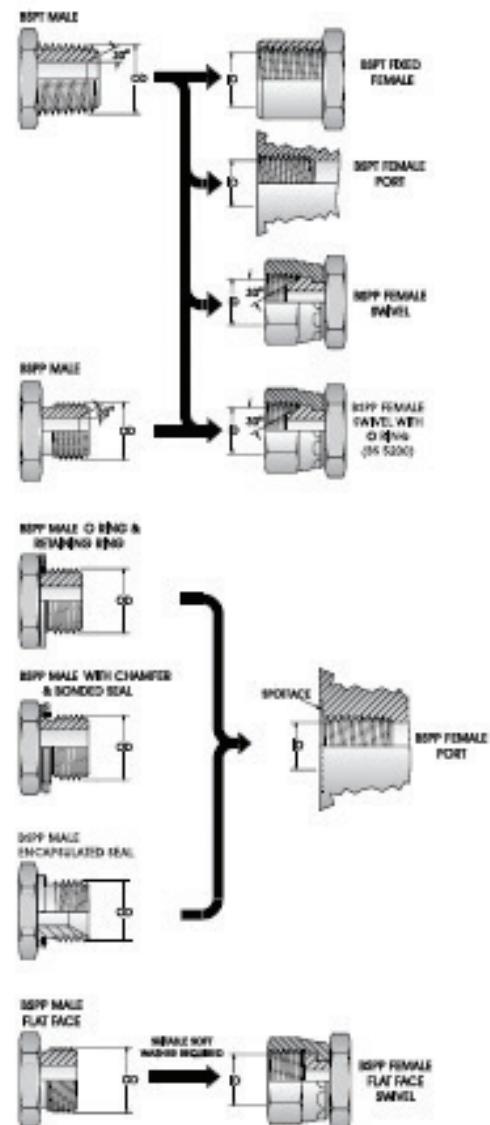
BSPT male and BSPP male with conical 30 seat (60 included angle) seal against matching conical 30 seat of BSPP female swivel and BSPP female swivel with O Ring.

BSPP O Ring male connector has straight threads and O Ring with metal Retaining Ring. It seals against flat external surface of BSPP female port. BSPP male, with chamfer to locate Bonded Seal also seals against flat external surface of BSPP female port.

Surface irregularities require a Spot Face to ensure effective sealing. Elbows and tees have Lock Nut to allow orientation of fitting to required direction.

BSPP male and BSPP female flat face swivel require a suitable soft washer between faces to seal.

For low working pressure.



Thread size refers to the nominal bore of the pipe. Subtract approx. $\frac{1}{4}$ " (6mm) from thread diameter measurement for nominal pipe size.

Pitch is Threads Per Inch (TPI).

"Gas", "R" & "G" also refer to BSP.
"Male Iron (Pipe)" may be BSP or NPT

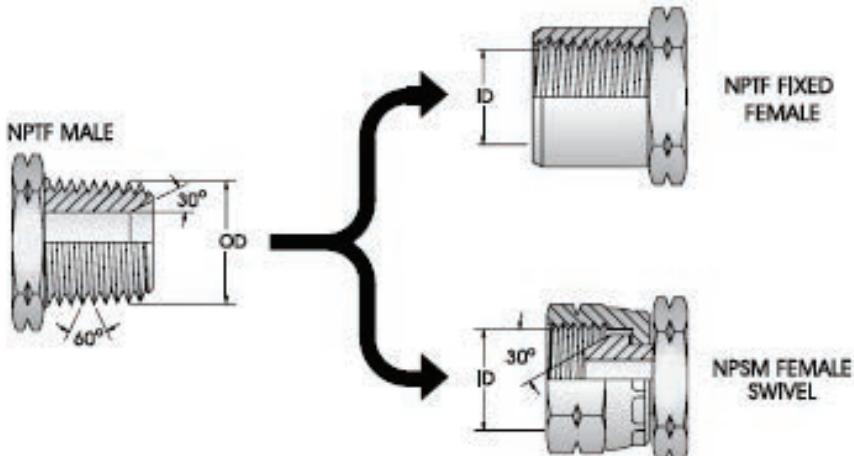
BSPT & BSPP THREAD DIMENSIONS

BSPT & BSPP SIZE & PITCH	DASH SIZE	BSPT THREAD MINOR OD		BSPP FEMALE THREAD OD		BSPT FEMALE THREAD ID		BSPP FEMALE THREAD ID	
inch - TPI		mm	inch	mm	inch	mm	inch	mm	inch
1/8 - 27	-02	9.5	0.37	9.6	0.38	8.4	0.33	8.6	0.34
1/4 - 18	-04	12.8	0.50	13.0	0.51	11.2	0.44	11.9	0.47
3/8 - 18	-06	16.3	0.64	16.5	0.65	14.7	0.59	15.02	0.60
1/2 - 14	-08	20.4	0.80	20.8	0.82	18.3	0.72	19.1	0.75
3/4 - 14	-10	22.5	0.89	22.8	0.90	20.6	0.81	20.8	0.82
1 - 11.1/2	-12	25.9	1.02	26.3	1.04	23.9	0.94	24.6	0.97
1.1/4 - 11.1/2	-16	32.6	1.28	33.1	1.30	29.7	1.17	30.7	1.21
1.1/2 - 11.1/2	-20	41.1	1.62	41.8	1.64	38.6	1.52	39.4	1.55
2 - 11.1/2	-24	47.0	1.85	47.7	1.88	44.5	1.75	45.5	1.79
2.1/2 - 8	-32	58.6	2.31	59.5	2.34	56.4	2.22	57.4	2.26
3 - 8	-48	74.1	2.92	75.1	2.95	71.9	2.83	72.6	2.86
3 - 8	-48	86.6	3.41	87.9	3.46	84.6	3.33	85.4	3.36

NPT & NPS Threads

NPT	15	NATIONAL PIPE TAPER (AMERICAN)	THREAD FORM PER ANSI/ASME B1.20.1
NPTS	15	NATIONAL PIPE STRAIGHT (PARALLEL)	THREAD FORM PER ANSI/ASME B1.20.1
NPTF	15	NATIONAL PIPE TAPER FOR FUEL	THREAD FORM PER SAE J476a, ANSI/ASME B1.20.3
NPSM	15	NATIONAL PIPE STRAIGHT MECHANICAL	THREAD FORM PER ANSI/ASME B1.20.1, SAE J514

National Pipe threads are similar in function to BSP threads, but are not generally interchangeable. NPTF threads (also known as Dryseal) are an improvement to NPT. Controlled truncation of threads mean the metal to metal thread seal is at root and crest of threads, in addition to flanks of thread. Use of thread sealant is recommended for NPT male and NPT.



Measure NPT male thread OD and NPT female thread ID at first full thread near end of fitting.

NPT THREAD DIMENSIONS						NPSM THREAD DIMENSIONS			
NPT THREAD SIZE & PITCH	DASH SIZE	MALE THREAD MINOR OD		FEMALE THREAD ID		NPSM THREAD SIZE	DASH SIZE	FEMALE THREAD ID	
inch - TPI		mm	inch	mm	inch	inch - TPI		mm	inch
1/8 - 27	-02	9.9	0.39	8.4	0.33	1/8 - 27	-02	8.6	0.34
1/4 - 18	-04	13.2	0.52	11.2	0.444	1/4 - 18	-04	11.9	0.47
3/8 - 18	-06	16.6	0.65	14.7	0.58	3/8 - 18	-06	15.0	0.59
1/2 - 14	-08	20.6	0.81	17.8	0.70	1/2 - 14	-08	19.1	0.75
3/4 - 14	-12	36.0	1.02	23.4	0.92	3/4 - 14	-12	24.6	0.97
1 - 11.1/2	-16	32.5	1.28	29.5	1.16	1 - 11.1/2	-16	30.5	1.20
1.1/4 - 11.1/2	-20	41.2	1.62	38.1	1.50	1.1/4 - 11.1/2	-20	39.4	1.55
1.1/2 - 11.1/2	-24	47.3	1.86	43.9	1.73	1.1/2 - 11.1/2	-24	45.5	1.79
2 - 11.1/2	-32	59.3	2.33	56.4	2.22	2 - 11.1/2	-32	57.4	2.26
2.1/2 - 8	-40	71.5	2.82	69.1	2.72	2.1/2 - 8	-40	68.8	2.71
3 - 8	-48	87.3	3.44	84.8	3.34	3 - 8	-48	84.6	3.33

Note: Thread size refers to the nominal bore of the pipe.

Subtract approximately $\frac{1}{4}$ " (6 mm) from thread measurement for nominal pipe size.

Pitch is Threads per Inch (TPI).

Common Hydraulic Threads

JIC 37 Flare and UNO (O Ring Boss) Threads

JIC 15 JOINT INDUSTRIES COUNCIL
UN 15 UNIFIED NATIONAL

SAE J514, ISO 8434-2
SAE J1926, ISO 11926-2

JIC & UNO (O RING BOSS) THREAD FORMS ARE THE SAME (ASME B1.1), METHOD OF SEALING DIFFERS.

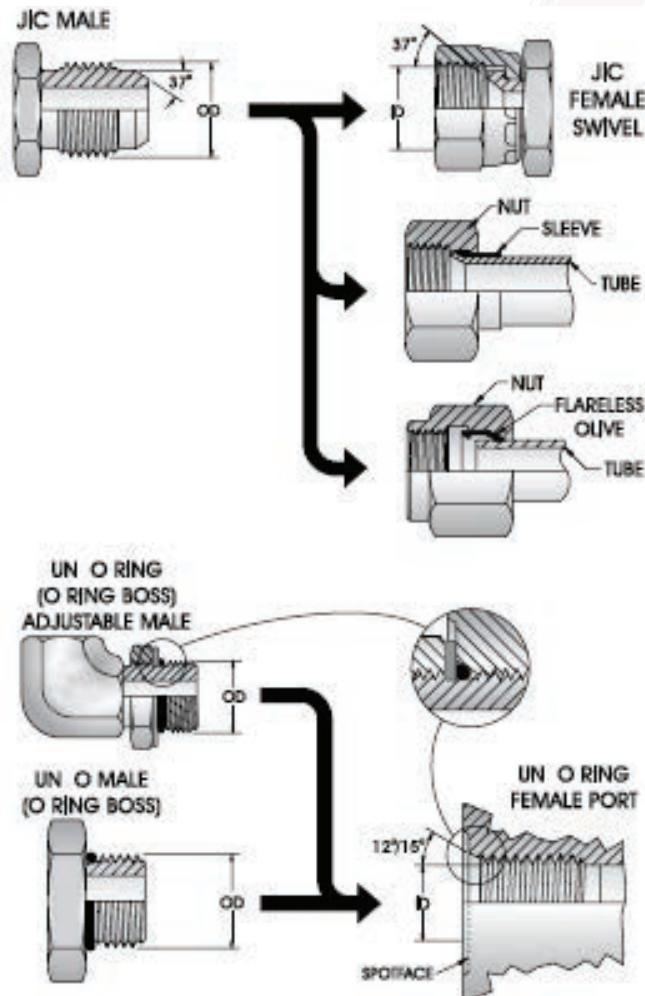
JIC male has 37° flare which seals against 37° seat in female.

JIC male can also seal against 37° flared tubing with JIC nut and sleeve.

JIC male can also be used with YCO S134 J-Lok Female Nut and Flareless Olive on Imperial OD tubing.

UNO (O Ring Boss) seals with O Ring compressed between hex boss of UN male and 12/15 tapered bore of UN (O Ring Boss) female port. For elbows and tees, Backup Washer and Lock Nut allow orientation of fitting to required direction.

Thread size is actual measurement of male thread and pitch is Threads Per Inch (TPI)



JIC & UNO THREAD DIMENSIONS

MALE THREAD OD & PITCH	DASH SIZE	MALE THREAD OD		FEMALE THREAD ID		TUBE SIZE
inch - TPI		mm	inch	mm	inch	inch
5/16 - 24 UNF	-05	7.9	0.31	6.9	0.27	1/8
3/8 - 24 UNF	-06	9.5	0.38	8.5	0.33	3/16
7/16 - 20 UNF	-07	11.1	0.44	9.9	0.39	1/4
1/2 - 20 UNF	-08	12.7	0.50	11.4	0.45	5/16
9/16 - 18 UNF	-09	14.3	0.56	13.0	0.51	3/8
3/4 - 16 UNF	-12	19.1	0.75	17.5	0.69	1/2
7/8 - 14 UNF	-14	22.2	0.88	20.3	0.80	5/8
1.1/16 - 12 UN	-17	27.0	1.06	24.9	0.98	3/4
1.3/16 - 12 UN	-19	30.2	1.19	28.2	1.11	7/8
1.5/16 - 12 UN	-21	33.3	1.31	31.2	1.23	1
1.5/8 - 12 UN	-26	41.3	1.63	39.1	1.54	1.1/4
1.7/8 - 12 UN	-30	47.6	1.88	45.5	1.79	1.1/2
2.1/2 - 12 UN	-40	63.5	2.50	61.5	2.42	2

Metric DIN Threads

DIN	15	THREAD FORM PER DIN 3853, ISO 261 (GERMAN INDUSTRIAL STANDARD) 24 CONE SEAT PER DIN 3861, ISO 8434-1/DIN 2353 O RING SEAL PER DIN 3865, BONDED SEAL AND PORT PER DIN 3852-1
DKL	15	(METRIC LIGHT SERIES 24 CONE)
DKS	15	(METRIC HEAVY SERIES 24 CONE)
DKOL	15	(METRIC LIGHT O RING SERIES 24 CONE)
DKOS	15	(METRIC HEAVY O RING SERIES CONE)
DKM	15	(METRIC 60 CONE)

This DIN connection comes in a Light Series (DKL/DKOL) and a Heavy Series (DKS/DKOLS). Some thread sizes in each series are the same, but the Tube OD of the Heavy Series is smaller and has a thicker tube wall. Because the tube and sealing cone are different sizes, Light and Heavy Series are NOT interchangeable.

The DIN male 24 internal cone seat will seal with flareless female swivel fittings. These female fittings use either a spherical nose (DKL/DKS) or an O Ring seal (DKOL/DKOS) located on their outward facing 24 cone.

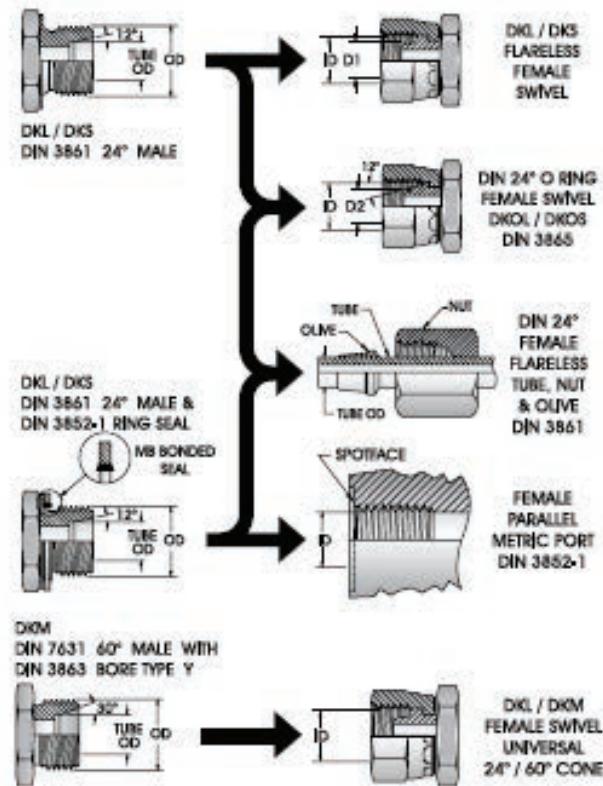
Female DKL sizes up to and including M26 have a universal 24/60 cone and can be used in place of female DKM fittings with 60 cone.

The same male also mates with the DIN system Metric Tube, Tube Nut and Compression Olive (Cutting Ring). Tightening of the female nut compresses the olive causing it to cut into the tube, thereby forming a seal between the tube, olive and 24 male cone.

The same male used with a metal Bonded Seal will mate with a DIN 3852-1 metric threaded port with spotface.

DKM 60 CONE SEAT

The DIN male 60 internal cone seat will mate with DKL/DKM female universal 24/60 cone fittings up to and including size M26 and DKM female 60 cone fittings from size M30 up.



MALE THREAD OD & PITCH	FEMALE THREAD ID	LIGHT SERIES - DKL/DKOL				HEAVY SERIES - DKL/DKOL			
		DASH SIZE	TUBE OD	D1 DIA	D2 DIA	DASH SIZE	TUBE OD	D1 DIA	D2 DIA
mm	mm								
M12 x 1.5	10.5	-1215*	6	7.5	6.3				
M14 x 1.5	12.5	-1415*	8	9.5	8.2	-1415	6	7.5	6.3
M16 x 1.5	14.5	-1615*	10	11.5	10.2	-1615	8	9.5	7.9
M18 x 1.5	16.5	-1815*	12	14.0	12.2	-1815	10	12.0	10.0
M20 x 1.5	18.5					-2015	12	14.0	12.0
M22 x 1.5	20.5	-2215*	15	17.0	15.2	-2215	14	16.0	14.2
M24 x 1.5	22.5					-2415	16	18.0	15.8
M26 x 1.5	24.5	-2615*	18	20.0	18.2				
M30 x 2.0	28.0	-3020	22	24.5	22.2	-3020	20	22.5	19.8
M36 x 2.0	34.0	-3620	28	30.5	28.2	-3620	25	27.5	24.5
M42 x 2.0	40.0					-4220	30	33.0	30.0
M45 x 2.0	43.0	-4520	35	38.0	35.4				
M52 x 2.0	50.0	-5220	42	45.0	42.4	-5220	38	41.0	36.8

These DKL Light Series Female Connections can be used in place of DKM Female.

NOTE: in above tables, pitch is included in DASH size.

For HOSE COUPLINGS and most ADAPTORS, pitch is not included in the DASH size.

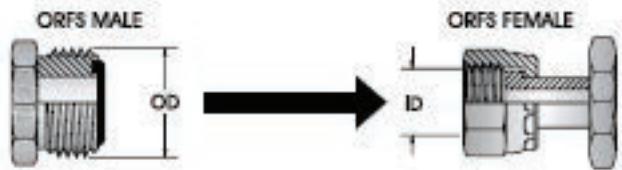
Common Hydraulic Threads

ORFS Threads - SAE J1453, ISO 8434-3

ORFS 15 O RING FACE SEAL

ORFS system consists of ORFS Male with O Ring in Face, which seals against Flat Seated ORFS Female Swivel Nut fitting.

The Swivel Nut can be slipped back to help installation in tight situations.



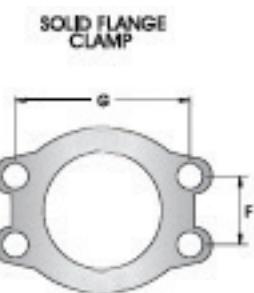
The prominent position of the O Ring on the Male fitting makes it easy to inspect the condition of the O Ring.

JIC & UNO THREAD DIMENSIONS

MALE THREAD OD & PITCH	DASH SIZE	MALE THREAD OD		FEMALE THREAD ID		TUBE SIZE
inch - TPI		mm	inch	mm	inch	inch
9/16 - 18 UNF	-09	14.3	0.56	12.9	0.51	1/4
11/16 - 16 UN	-11	17.3.8	0.56	16.0	0.63	3/8
13/16 - 16 UN	-13	20.6	0.81	19.1	0.75	1/2
1 - 14 UNS	-16	25.4	1.00	23.6	0.73	5/8
1.3/16 - 12 UN	-19	30.0	1.18	28.2	1.11	3/4
1.7/16 - 12 UN	-23	36.3	1.43	34.3	1.35	1
1.11/16 - 12 UN	-27	42.7	1.68	40.6	1.60	1.1/4
2 - 12 UN	-32	51.8	2.00	48.8	1.92	1.1/2

SAE O Ring Flange - CODE 61 & CODE 62 SAE J518, ISO 6162

RYCO O Ring Flange - CODE 62C



The male connector has a flange head with an O Ring groove on the face. The female can be a flange block or port with smooth face to accept the O Ring, and four threaded bolt holes in a rectangular pattern. The connection is held together using either a split or solid flange clamp, fitted over the male flange head and drawn up to the female port using the four bolts. This compresses the O Ring forming a seal between the male flange and the flat female port face.

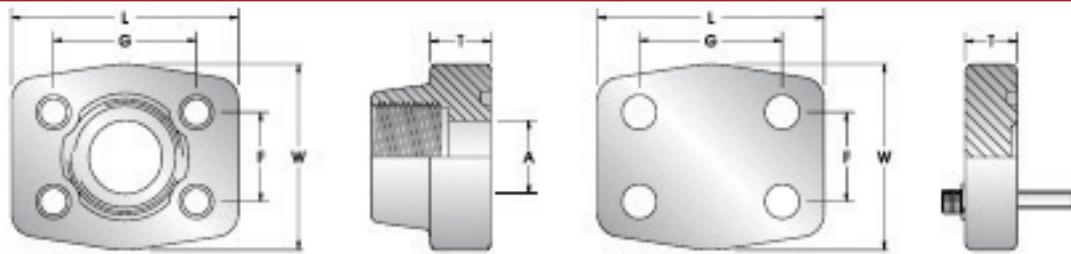
SAE J518, DIN 20066, ISO/DIS 6162 and JIS B 8363 are all interchangeable, except for bolt sizes.

NOM. FLANGE SIZE	DASH SIZE	B0		T		F		G		PORT	BOLT LENGTH	PORT	BOLT
		mm	inch	mm	inch	mm	inch	mm	inch				
CODE 61													
1/2	-0.8	30.2	1.19	6.73	0.265	17.5	0.69	38.1	1.50	5/16 - 18	1.1/4	M8 x 1.25	35
*5/8	-10	34.0	1.34	6.73	0.265	19.8	0.78	42.9	1.69	5/16 - 18		M8 x 1.25	
3/4	-12	38.1	1.50	6.73	0.265	22.2	0.88	47.6	1.88	3/8 - 16	1.1/4	M10 x 1.5	35
1	-16	44.5	1.75	8.00	0.315	26.2	1.03	52.4	2.06	3/8 - 16	1.1/4	M10 x 1.5	35
1.1/4	-20	50.8	2.00	8.00	0.315	30.2	1.19	58.7	2.31	7/16 - 14	1.1/2	M10 x 1.5	40
1.1/2	-24	60.3	2.38	8.00	0.315	35.7	1.41	69.8	2.75	1/2 - 13	1.1/2	M12 x 1.75	45
2	-32	71.4	2.81	9.53	0.375	42.9	1.69	77.8	3.06	1/2 - 13	1.1/2	M12 x 1.75	45
2.1/2	-40	84.1	3.31	9.53	0.375	50.8	2.00	88.9	3.50	1/2 - 13	1.3/4	M12 x 1.75	45
3	-48	101.6	4.00	9.53	0.375	61.9	2.44	106.4	4.19	5/8 - 11	1.3/4	M16 x 2.0	45
CODE 62													
1/2	-08	31.7	1.25	7.75	0.305	18.2	0.72	40.5	1.59	5/16 - 18	1.1/4	M8 x 1.25	35
3/4	-12	41.3	1.63	8.76	0.345	23.8	0.94	50.8	2.00	3/8 - 16	1.1/2	M10 x 1.5	40
1	-16	47.6	1.88	9.53	0.375	27.8	1.09	57.2	2.25	7/16 - 14	1.3/4	M12 x 1.75	45
1.1/4	-20	54.0	2.12	10.29	0.405	31.8	1.25	66.7	2.63	1/2 - 13	1.3/4	M14 x 2.0	45
1.1/2	-24	63.5	2.50	12.57	0.495	36.5	1.44	79.4	3.13	5/8 - 11	2.1/4	M16 x 2.0	60
2	-32	79.4	3.13	12.57	0.495	44.5	1.75	96.8	3.81	3/4 - 10	2.3/4	M20 x 2.5	70
CODE 62C													
3/4	-12	41.3	1.63	14.20	0.559	23.8	0.94	50.8	2.00	3/8 - 16	1.3/4	M10 x 1.5	45
1	-16	47.6	1.88	14.20	0.599	27.8	1.09	57.2	2.25	7/16 - 14	1.3/4	M12 x 1.75	45
1.1/4	-20	54.0	2.12	14.20	0.599	31.8	1.25	66.7	2.63	1/2 - 13	2	M14 x 2.0	50
1.1/2	-24	63.5	2.5	14.20	0.599	36.5	1.44	79.4	3.13	5/8 - 11	2.1/2	M16 x 2.0	60
2	-32	79.4	3.13	14.20	0.599	44.5	1.75	96.8	3.81	3/4 - 10	2.3/4	M20 x 2.5	70

Common Hydraulic Threads

SAE O Ring Flange Blocks - Code 61 And Code 62

SAE J518, ISO 6162



NOM. FLANGE SIZE	DASH SIZE	L		W		F		G		A		T EXCEPT BLIND FLANGES		T BLIND FLANGES S967/S968	
inch		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
CODE 61															
1/2	-0.8	56	2.20	48	1.89	17.5	0.69	38.1	1.50	13	0.51	16	0.63	16	0.63
3/4	-12	65	2.56	50	1.97	22.2	0.88	47.6	1.88	19	0.75	18	0.71	16	0.63
1	-16	70	2.76	60	2.36	26.2	1.03	52.4	2.06	25	0.98	18	0.71	19	0.75
1.1/4	-20	79	3.11	68	2.68	30.2	1.19	58.7	2.31	32	1.26	21	0.83	18	0.71
1.1/2	-24	93	3.66	78	3.07	35.7	1.41	69.8	3.06	38	1.50	25	0.98	20	0.79
2	-32	102	4.02	90	3.54	42.9	1.69	77.8	3.50	51	2.01	25	0.98	20	0.79
CODE 62															
3/4	-12	71	2.80	60	2.36	23.8	0.94	50.8	2.00	19	0.75	21	0.83	19	0.75
1	-16	81	3.19	70	2.76	27.8	1.09	57.2	2.25	25	0.98	25	0.98	24	0.94
1.1/4	-20	95	3.74	78	3.07	31.8	1.25	66.7	2.63	32	1.26	27	1.06	27	1.06
1.1/2	-24	112	4.41	94	3.70	36.5	1.44	79.4	3.13	38	1.50	30	1.18	30	1.18
2	-32	134	5.28	114	4.49	44.5	1.75	96.8	3.81	51	2.01	37	1.46	28	1.10

NOMINAL FLANGE SIZE		DASH SIZE		SOCKET HEAD CAP SCREW (THREAD X LENGTH)				SOCKET HEAD CAP SCREW (THREAD X LENGTH)			
inch				UNC x inch				METRIC x inch			
CODE 61											
11/16 - 16 UN			-0.8			5/16 - 18 x 1.1/4			M8 x 1.15 X 30		
13/16 - 16 UN			-12			3/8 - 16 x 1.1/2			M10 x 1.15 X 35		
1 - 14 UNS			-16			3/8 - 16 x 1.1/2			M10 x 1.15 X 35		
1.3/16 - 12 UN			-20			7/16 - 14 x 1.3/4			M10 x 1.15 X 40		
1.7/16 - 12 UN			-24			1/2 - 13 x 1.3/4			M12 x 1.75 X 45		
1.11/16 - 12 UN			-32			1/2 - 13 x 1.3/4			M12 x 1.75 X 45		
CODE 62											
3/4			-12			3/8 - 16 x 1.1/2			M10 x 1.15 X 40		
1			-16			7/16 - 14 x 1.3/4			M12 x 1.75 X 45		
1.1/4			-20			1/2 - 13 x 1.3/4			M14 x 2.0 X 45		
1.1/2			-24			5/8 - 11 x 2			M16 x 2.0 X 50		
2			-32			3/4 - 10 x 2.1/2			M20 x 2.5 X 70		



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