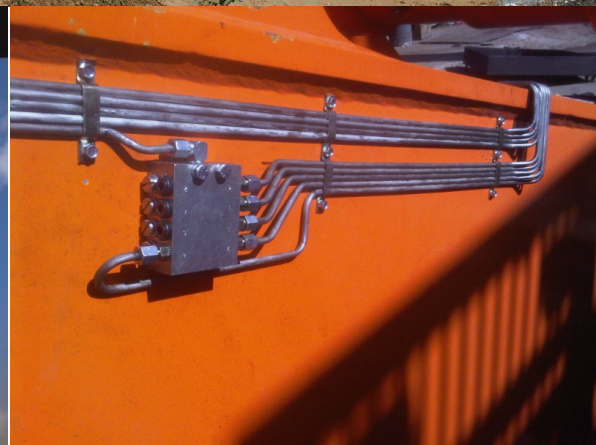


Ultra Flow SA

PROGRESSIVE LUBRICATION SYSTEMS



2026 V1.4
PROGRESSIVE
LUBRICATION SYSTEM



Progressive lubrication system description

Progressive lubrication systems

For small- to medium-sized machines that require continuous lubrication and can reach high pressures 400 Bar.

Progressive systems provide continuous lubrication as long as the pump is on. Once the pump stops, the pistons of the progressive metering device will stop in their current positions. When the pump starts supplying lubricant again, the pistons will carry on where they left. Therefore, the progressive circuit of one outlet of the pump will stop when only one lubrication point is blocked. The blockage serves as a means of control and forces personnel to service the system or check for blocked pins or crushed pipes.

Only

one outlet of a primary or a secondary metering device of one pump outlet can be monitored visually or electrically, depending on the chosen metering device. Options for visual indicator pins are available for

metering devices or using smart flow sensors. Should a blockage occur, the pressure will rise and should be

noted on the pressure gauge installed on the safety relief valve of the pump. Should the blockage continue

grease/oil will be expelled from the safety relief valve at the prescribed relief valve setting.

Benefits

Continuous lubrication - Delivers frequent and measured amounts of lubricant to each lubrication point

Reliable monitoring and control - Easy system monitoring and simple blockage control, integrated system control and monitoring

Effective in harsh conditions - Potentially high lubrication point back pressure, dirty, wet or humid environments (including ATEX / EEX), and low temperatures

Market applications

Construction machines (concrete pumps, mortar pumps, loaders, excavators, trenchers)

On-road trucks (snow removal, waste press)

Agricultural machines (harvesters, balers, manure spreaders, sugar cane loaders)

Wood reclaimers

Material handling (reach stackers, crane carts)

Asphalt mixing plants

Wind turbine generators

Food and beverage facilities (fillers, washing machines)

Oil and gas industry reciprocating compressors

Progressive lubrication system

For oil, fluid grease and grease lubrication system

Characteristic

- Compact, flexible kit
- Monitored function
- Total Loss System
- Wide range of use
- Integrated return valve

The system components

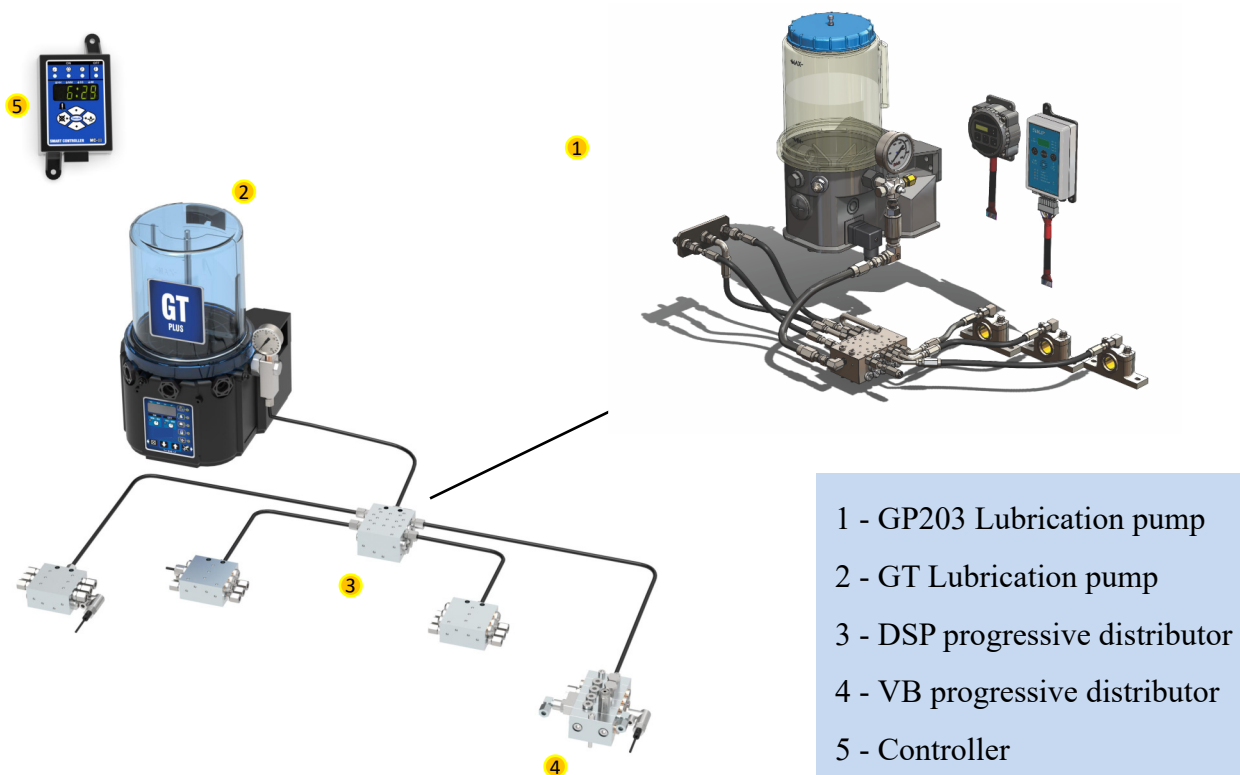
- Manual, pneumatic and electrical pumps
- Main lines
- Progressive distributor
- Pipe to the lubrication point
- Screwed fittings
- Control and monitoring devices

The function

The lubricant is pumped through the main lines to the progressive distributor with the pump. The lubricant is delivered "progressively" to the friction point.

The circulation of a progressive distributor is monitored optically or electrically.

Struture diagram :



Ultra Flow SA



GT Lubrication pump

- Pump oil and grease
- Multiple grease filling ways
- Powerful centralized control system
- Multiple voltages available

THE SMALL PUMP PACKAGE WITH BIG FEATURES

GT is a piston pump, operates with a maximum of five pumping elements, Its design is particularly suitable for progressive systems or single-line systems.

Five independent line lubrication at the same time.

Output can be combined and increase displacement. With special materials, to achieve excellent anti-shock ability Special design of pump make it easy to observe the oil level and prevent UV radiation, prevent oil deterioration. With low liquid level alarm, flashing buzzer. Also can choose the type of output.



There are two model modes:

Standard: Can be managed by an external PLC. Since it does not come with an internal control unit, this is the most economic solution for lubricating your systems.

Automatic: With integrated control system, which can be set up local running time. Equipped with local operation and alarm light, alarm with buzzer, provide low level and pulse alarm, which can be combined with the monitor of metering units for a perfect operating system.

Characteristics

- Pump oil and grease
- Reservoirs : 2L、 4L、 6L、 8L、 12L
- Voltages : 12VDC、 24VDC、 110VAC、 220VAC
- Multiple grease filling ways
- Powerful centralized control system
- CE Certification
- Design patent
- IP67

Application

- Construction machinery
- Agricultural equipment
- Wind power equipment
- Press machine
- Mining equipment
- Ship and Marine engineering
- Food and drinking
- Textile

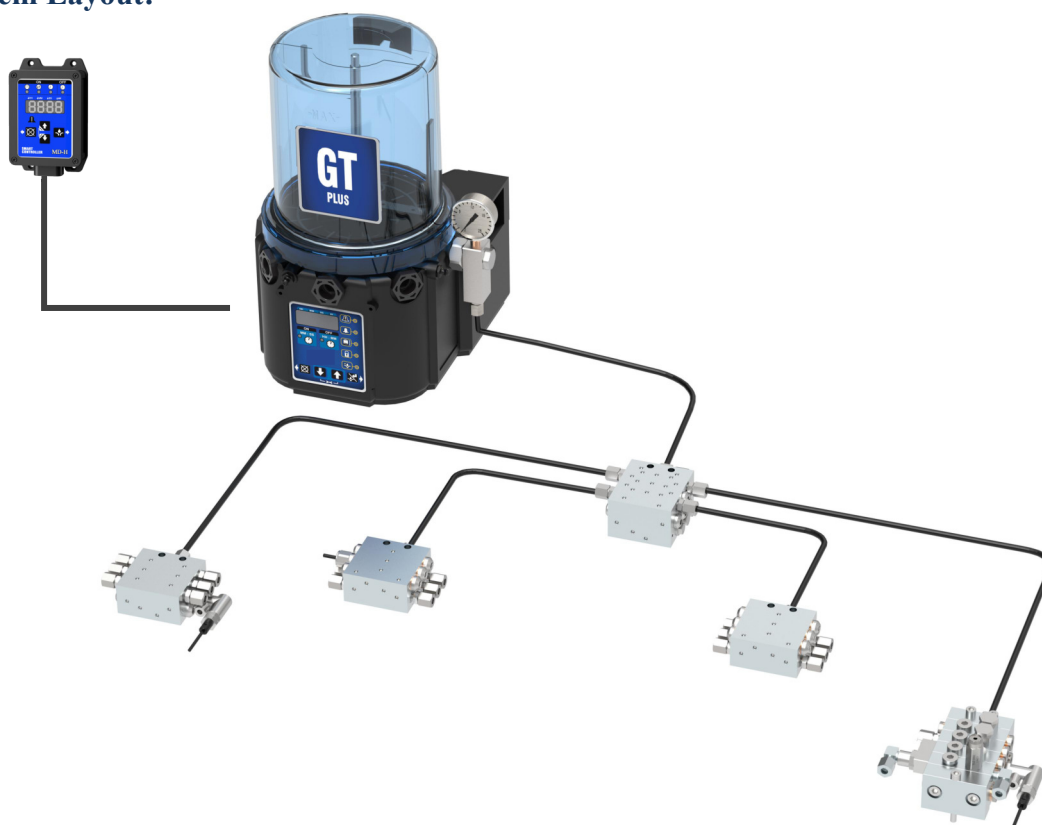
GT Lubrication pump

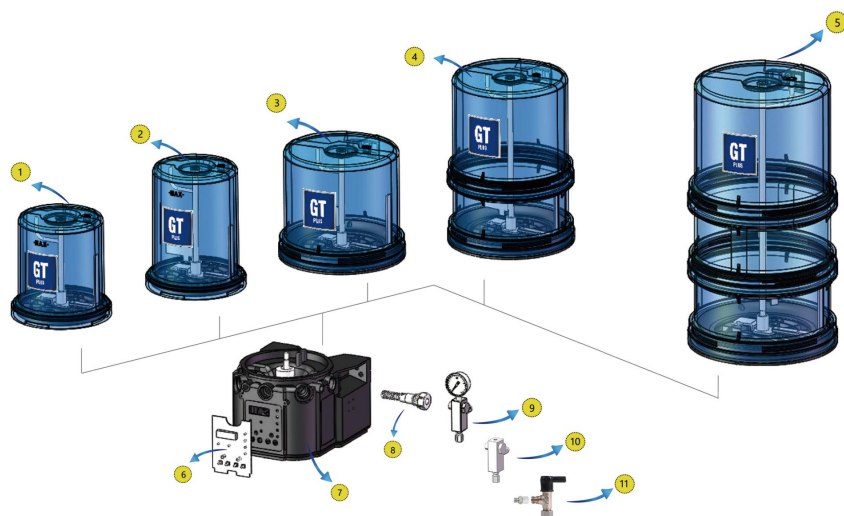
Technical information :

Technical characteristics	
Pump outlets	Max. 5 outlets
Outlet thread	G1/4
Flow per pump unit	2ml、 3ml、 4ml/min
Operating pressure	Max. 35MPa
Reservoir capacity	2、 4、 6、 8、 12L
Lubricants	OIL、 000、 00、 0、 1、 2
Operating temperatures	-50 - 90°C*

* Use low-temperature grease for environments below -20°C.

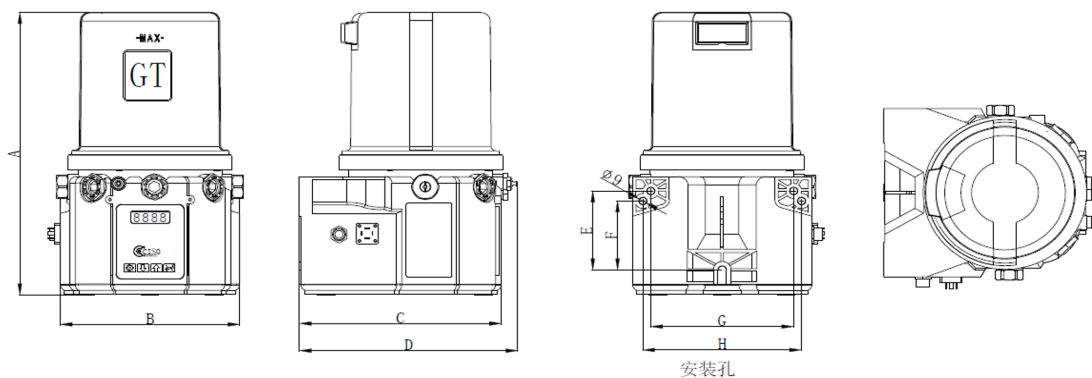
Typical system Layout:





Nº	Part	Nº	Part
1	2L Pump Tank	7	Pump base
2	4L Pump Tank	8	GT Pumping Element
3	6L Pump Tank	9	Pump outlet assembly (With pressure gauge)
4	8L Pump Tank	10	Pump outlet assembly (Without pressure gauge)
5	12L Pump Tank	11	Relief valve
6	Control panel		

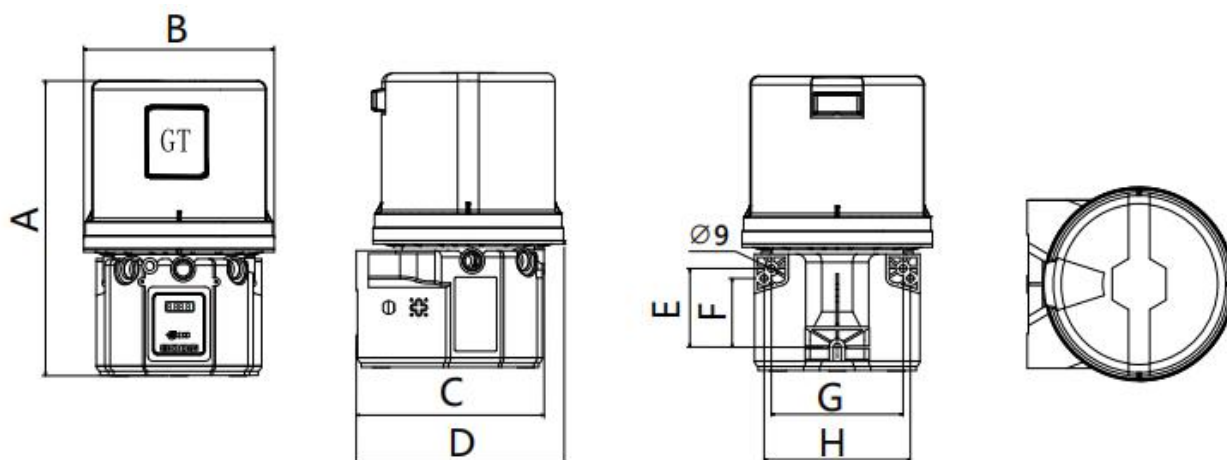
2L & 4L Dimensions(mm):



Reservoirs	A	B	C	D	E	F	G	H
2L	338	204	231.5	248	95.5	83.5	162.5	182
4L	378	204	231.5	248	95.5	83.5	162.5	182

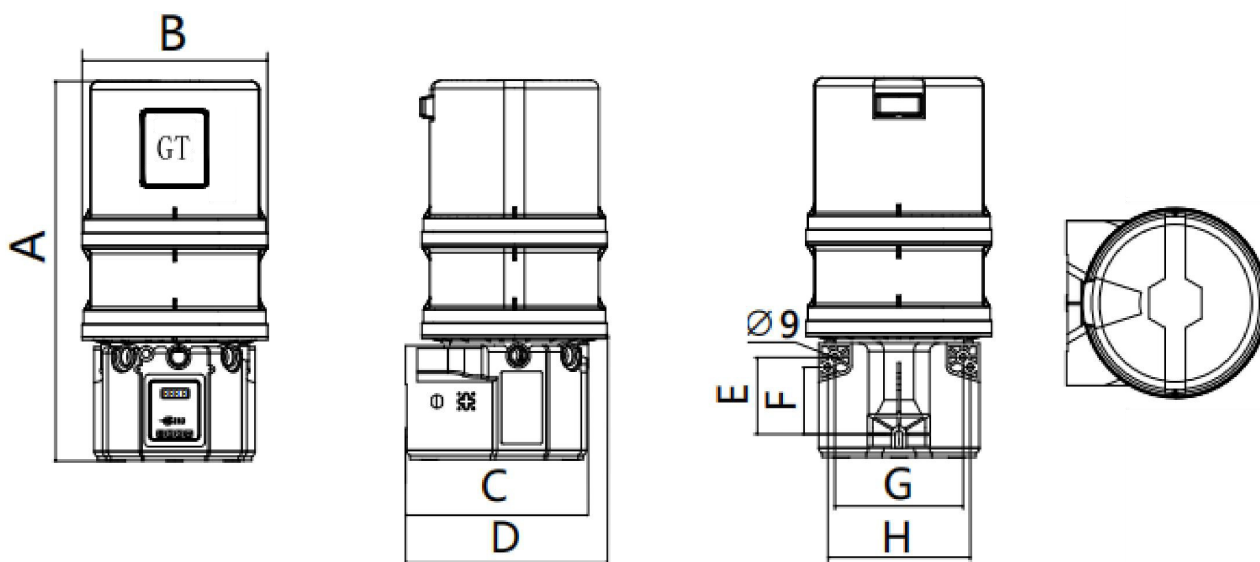
GT Lubrication pump

6L Dimensions (mm):



Reservoirs	A	B	C	D	E	F	G	H
6L	358	235	231.5	256.5	95.5	83.5	162.5	182

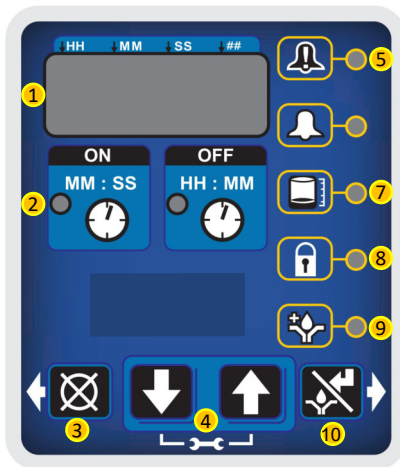
8L & 12L Dimensions (mm):



Reservoirs	A	B	C	D	E	F	G	H
8L	471	235	231.5	256.5	95.5	83.5	162.5	182
12L	585	235	231.5	256.5	95.5	83.5	162.5	182

GT Lubrication pump

Control System:



Basic function

- 1 Easy to read LED display
- 2 Legible on/off instructions
- 3 Reset function
- 4 Easy to use navigation keys
- 5 Alarm signal of lube system shutdown
- 7 Low level indication
- 10 Manually run/Confirm

Custom function

- 8 Access to the control device is password protected
- 9 Pre-lube capability

★ For additional customization features, please contact your sales manager.

| Clear panel

| Programs that can be designed

| It can be password protected


| Sound alarm

| Low level alarm

| Accept proximity switch

| Excellent shock resistance

| pre lubrication button

Press and hold the "↑+↓" keys at the same time to enter the setting mode, Press  to enter page browsing.

Set run time

The LED adjacent to the ON part of the clock lights up, indicating that you are setting the boot time parameters, you can press "↑or↓" to adjust the time.

Set shutdown time

The LED adjacent to the OFF section clock lights up to indicate that you are setting the shutdown time parameter. Press "↑ or ↓" to adjust the time.

Press  to start running

GT Lubrication pump

Top cap :

1. Order the GT pump for the upper grease cover. Add - B after the standard part number. For example: UF-20D220-B

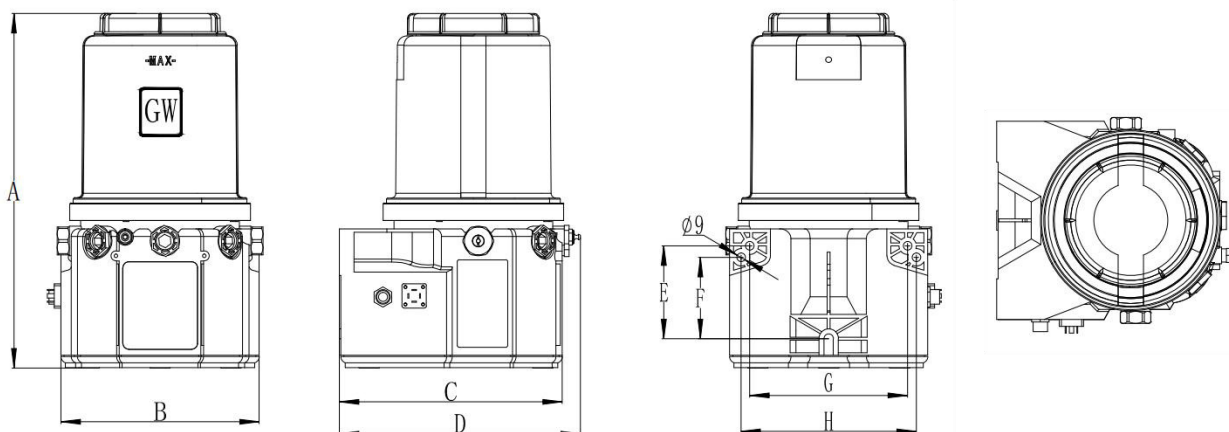


Pump grease, top open cover mode, large diameter injection cap

Applicable: 2L、6L、8L、12L

This top cover method is not suitable for 4L tanks

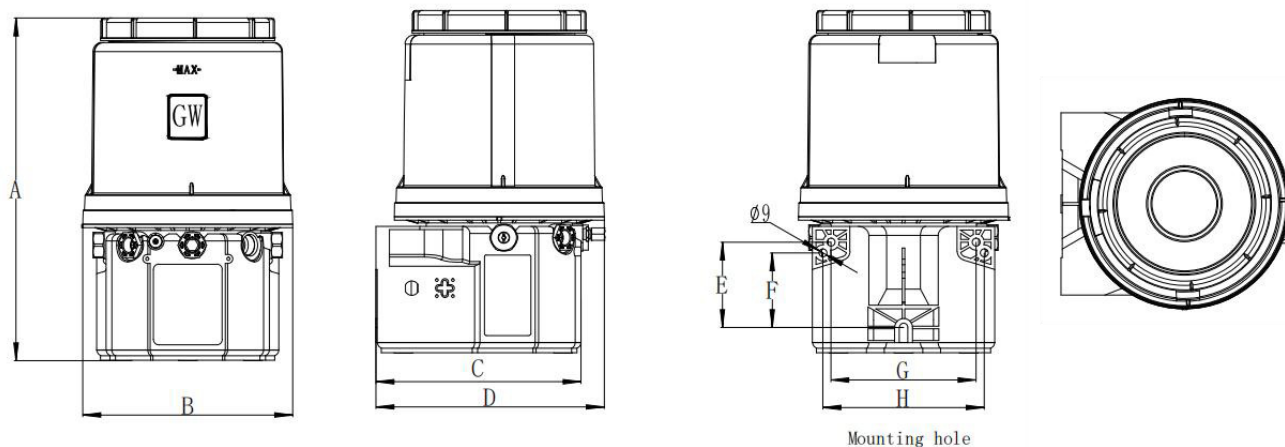
2L Dimensions (mm) :



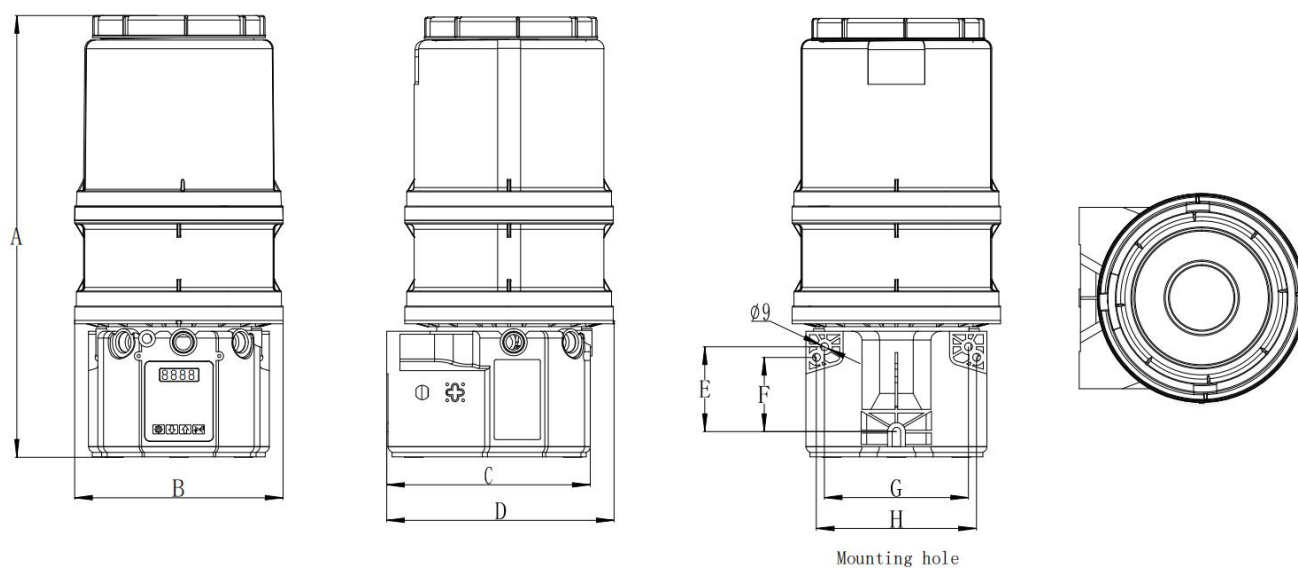
Reservoir	A	B	C	D	E	F	G	H
2L	365	204	231.5	248	95.5	83.5	162.5	182

GT Lubrication pump

6L & 8L Dimensions (mm) :



Reservoir	A	B	C	D	E	F	G	H
6L	385	235	231.5	255.5	95.5	83.5	162.5	182

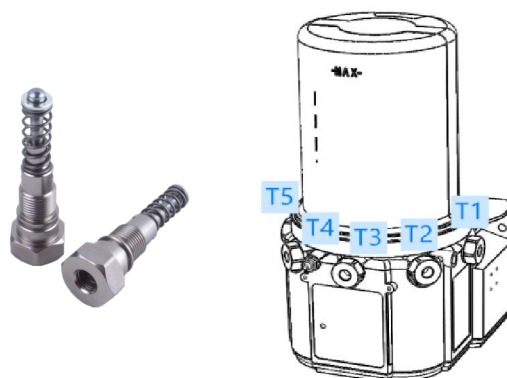


Reservoir	A	B	C	D	E	F	G	H
8L	498	235	231.5	255.5	95.5	83.5	162.5	182

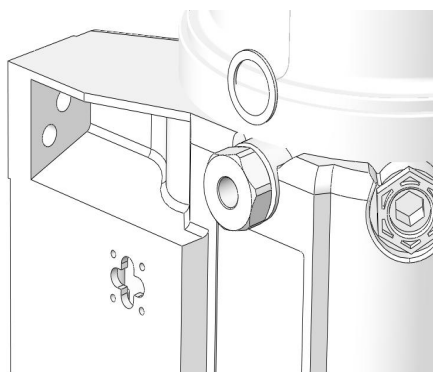
Ordering information :

2. GT pumps are equipped with 1 pump element at the T1 position. Customers can purchase pump element and install them in positions T2 through T5

Only suitable for A6, if you choose other pump head, please consult customer service.



3. Displacement can be adjusted by shims. Pump displacement settings can use 0, 1 or 2 spacers. More than 2 spacers are prohibited.



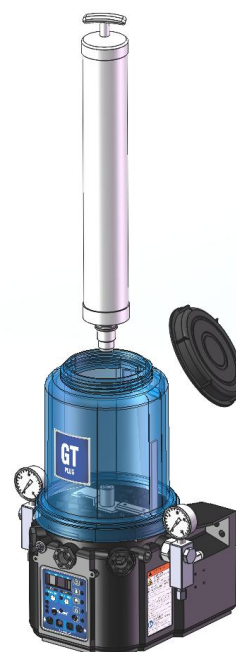
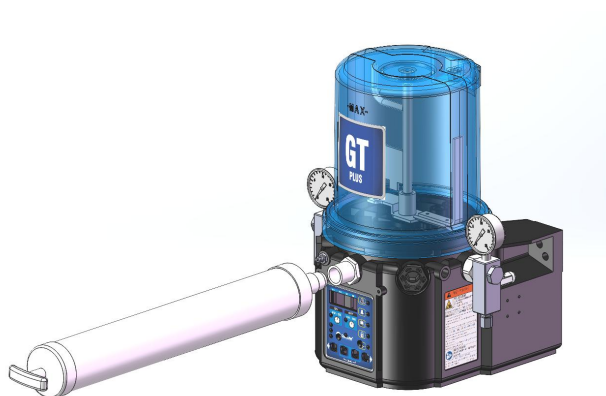
No. Spacers	Output Volume/Minute	
	cubic inches	cubic cm
2	0.12	2
1	0.18	3
0	0.25	4

Ordering code: UF-1300135

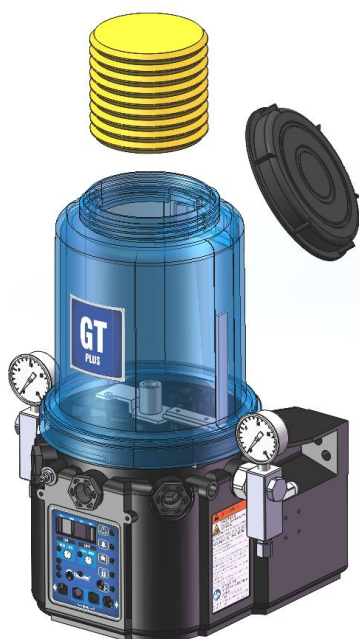
GT Lubrication pump

Fill grease type:

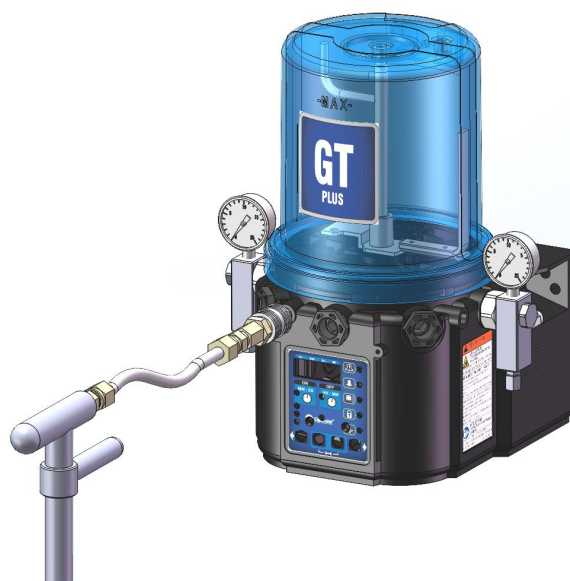
① with grease gun kits



② with cartridge



③ with hand pump



GT Lubrication pump

Ordering information :



20- ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

<p>Type</p> <p>D = Stirrer</p> <p>E = With follower plate</p>	
<p>Reservoir</p> <p>2 = 2L 4 = 4L</p> <p>6 = 6L 8 = 8L</p> <p>12 = 12L</p>	
<p>Voltages</p> <p>2=12VDC 4=24VDC</p> <p>6=220V</p>	
<p>Timer</p> <p>1 = With timer</p> <p>6 = Without timer</p>	
<p>Low Level</p> <p>L = With level</p> <p>M = Without level</p>	
<p>Lubricant</p> <p>G = Grease</p> <p>O = Oil</p>	
<p>Fill Type</p> <p>N = Rease Nipples</p> <p>F = Quick connection</p>	
<p>Reservoir Feature</p> <p>A = Without top cover</p> <p>B = With top cover</p>	

Ultra Flow SA



GM Lubrication pump

- Small size, large performance
- Multiple grease filling ways
- Powerful centralized control system
- Multiple voltages available

Small size, large performance

HIGH PERFORMANCE IN A COMPACT PUMP

GM is a piston pump, predisposed to operate with a maximum of five pumping units, Five independent line lubrication at the same time.

Output can be combined and increase displacement. Its design is particularly suitable for progressive systems or single line systems.

Its size is particularly suitable for installation in small Spaces.

With a maximum working pressure of 25Mpa, it is a more economical solution for lubrication systems.

The special body material achieves very excellent seismic function.

With special materials, to achieve excellent anti-shock ability Special design of pump make it easy to observe the oil level and prevent UV radiation, prevent oil deterioration.

With low liquid level alarm, flashing buzzer. Also can choose the type of output.



There are two model modes:

Standard: can be managed by an external PLC. Since it does not come with an internal control unit, this is the most economic solution for lubricating your systems.

Automatic: With integrated control system, which can be set up local running time. Equipped with local operation and alarm light, alarm with buzzer, provide low level and pulse alarm, which can be combined with the monitor of distributor units into a perfect operating system.

Characteristics

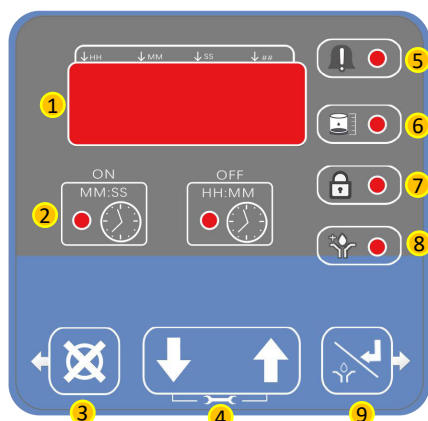
- Reservoir: 1.5L, 2L, 4L
- Voltages: 12VDC, 24VDC, 220VAC
- Pump oil and grease
- Multiple grease filling ways
- Powerful centralized control system
- CE Certification
- Design patent
- IP67

Application

- Construction machinery
- Agricultural equipment
- Wind power equipment
- Press machine
- Mining equipment
- Ship and Marine engineering
- Food and drinking
- Textile

GM Lubrication pump

Control System



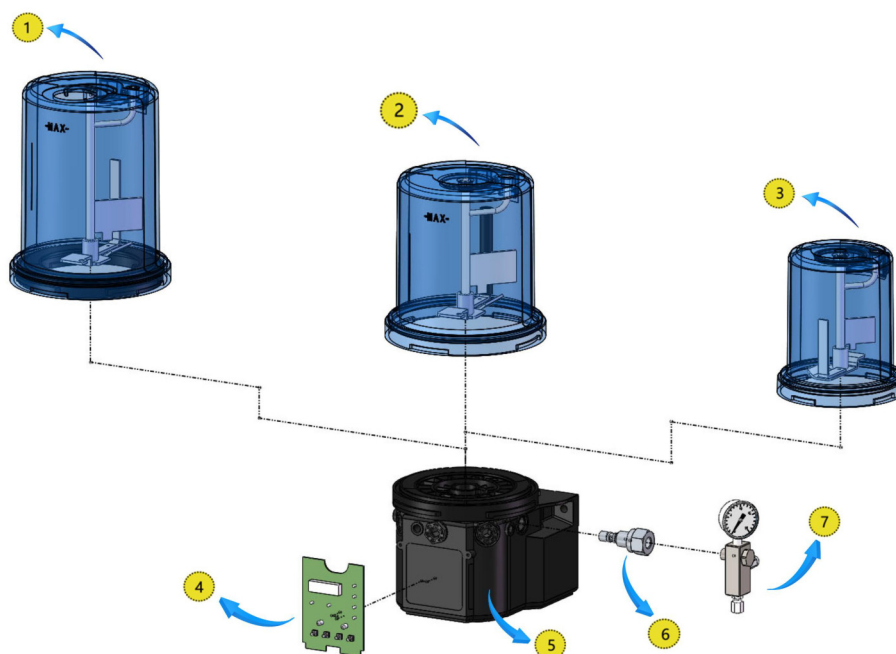
Basic function

- 1 Easy to read LED display
- 2 Legible on/off instructions
- 3 Reset function
- 4 Easy to use navigation keys
- 5 Alarm signal of lube system shutdown
- 6 Low level indication
- 9 Manually run/Confirm

Custom function

- 7 Access to the control device is password protected
- 8 Pre-lube capability

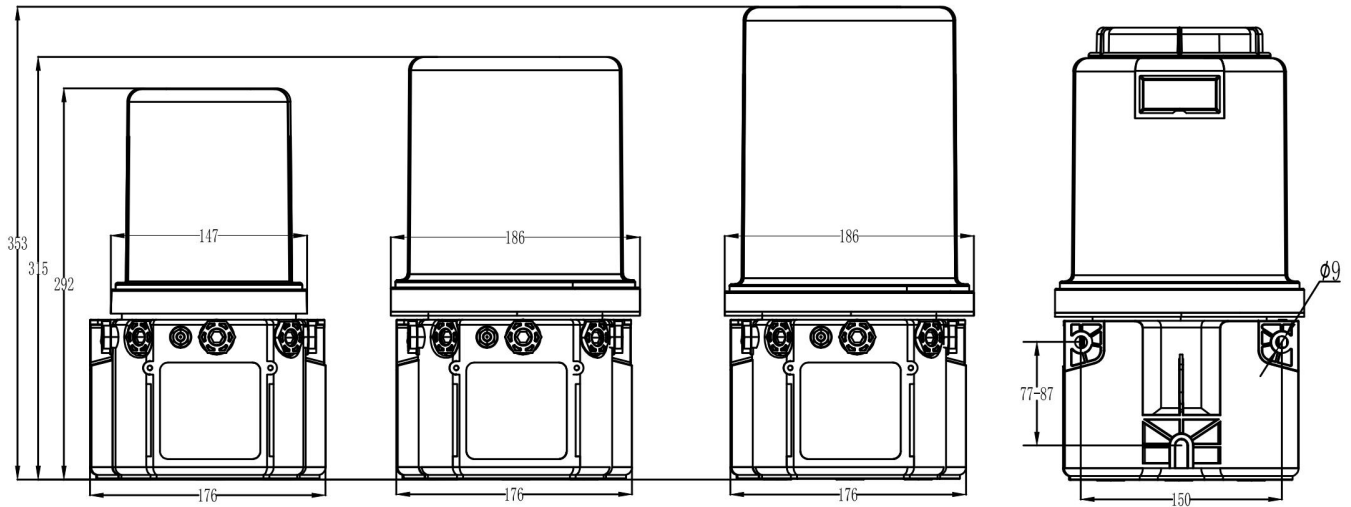
★ For additional customization features, please contact your sales manager.



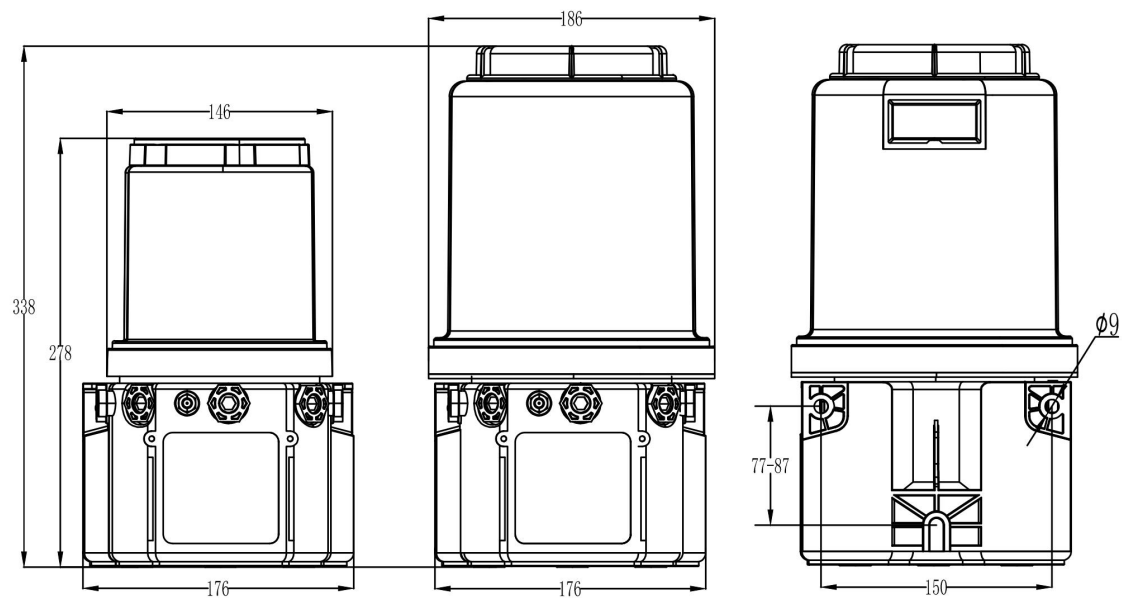
Nº	Part	Nº	Part
1	4L Pump Tank	5	Pump base
2	2L Pump Tank	6	GM Pumping Element
3	1.5L Pump Tank	7	Pump outlet assembly (With pressure gauge)
4	Control panel		

GM Lubrication pump

Without top cover Dimensions (mm) :



With top cover Dimensions(mm)



GM Lubrication pump

Technical information :

Technical characteristics

Unit of pump outlets	Max. 5 outlets
Outlet thread	G1/4
Rated flow	4ml/min
Operating pressure	Max. 25MPa
Reservoir Capacity	1.5, 2, 4L
Lubricants	OIL, 000, 00, 0, 1, 2
Operating temperatures	-50 - 90°C*

* Use low-temperature grease for environments below -20°C.

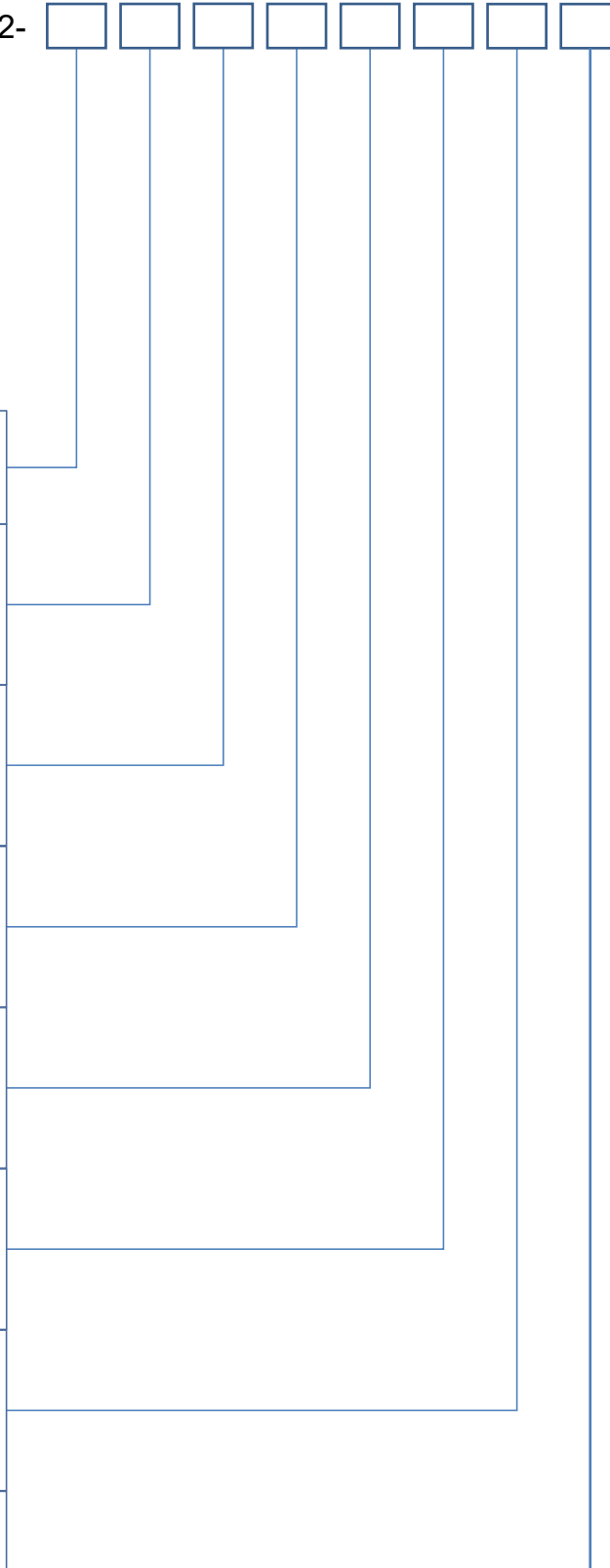


GM Lubrication pump

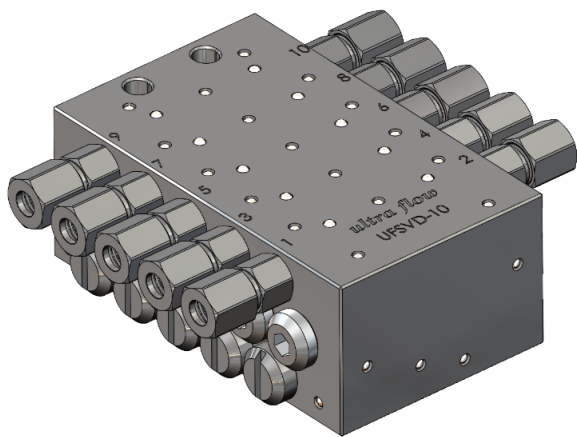
Ordering information :



22- ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

<p>Type</p> <p>D = Stir</p>	
<p>Reservoir</p> <p>1 = 1.5L 2 = 2L</p> <p>4 = 4L 7 = Cartridge</p>	
<p>Voltages</p> <p>2 = 12VDC 4 = 24VDC</p> <p>3 = AC110V 6 = 220VAC</p>	
<p>Timer</p> <p>1 = with timer</p> <p>6 = without timer</p>	
<p>Low Level</p> <p>L = with level</p> <p>M = without level</p>	
<p>Lubricant</p> <p>G = Grease</p> <p>O = Oil</p>	
<p>Fill Type</p> <p>N = Grease Nipples</p> <p>F = Quick connection</p>	
<p>Reservoir Feature</p> <p>A = Without top cover</p> <p>B = With top cover</p>	

Ultra Flow SA



GP203 Pump

GP203 Pump

The GP203 is a high-pressure piston pump that can be equipped with up to three piston pairs.

Its design integrates the features of both progressive and multi-point lubrication systems, enabling it to lubricate up to 150 points.

It can simultaneously supply three independent lubrication lines, and the outlets can be combined to increase displacement. The pump is also equipped with an internal low level detection sensor.

Designed for versatility, economy, and durability, the GP203 features electrical connectors specifically engineered for outdoor use, providing a high level of protection.



Characteristics

- Optional control printed circuit boards
- Available in multiple reservoir
- With top cover

Application

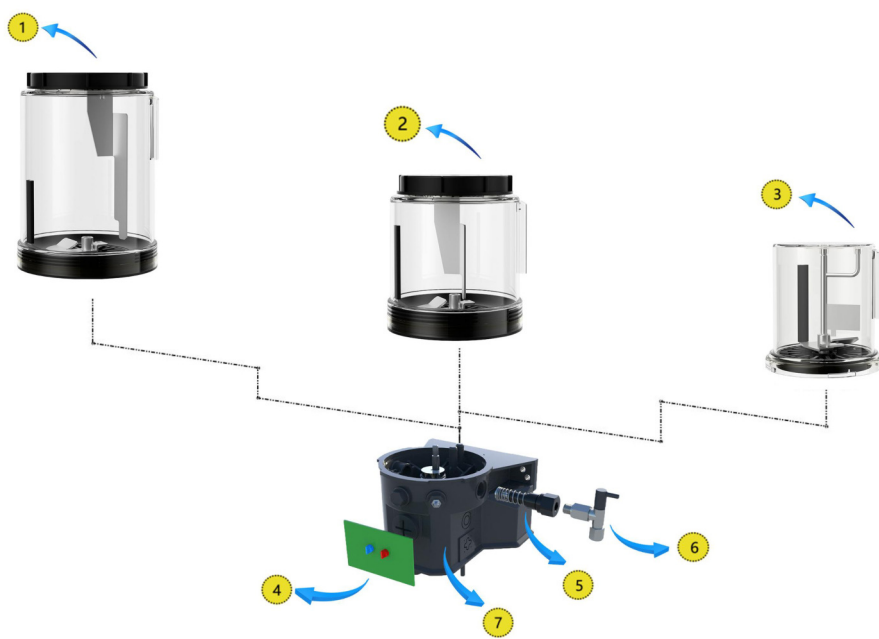
- Small to Medium-Sized Machinery
- Agricultural Machinery
- Wind Power Equipment
- Mobile Equipment
- General Industry
- Construction Machinery

GP203 Pump

Technical information

Unit of pump outlets	Max. 3 outlets
Outlet thread	G1/4
Flow per pump unit	4.4ml/min
Operating pressure	Max. 35MPa; 5075psi
Reservoir	2, 4, 8L
Lubricants	OIL, 000, 00, 0, 1, 2
Voltages	12VDC, 24VDC
Operating temperatures	-40 - 70°C
IP Code	IP6K9K

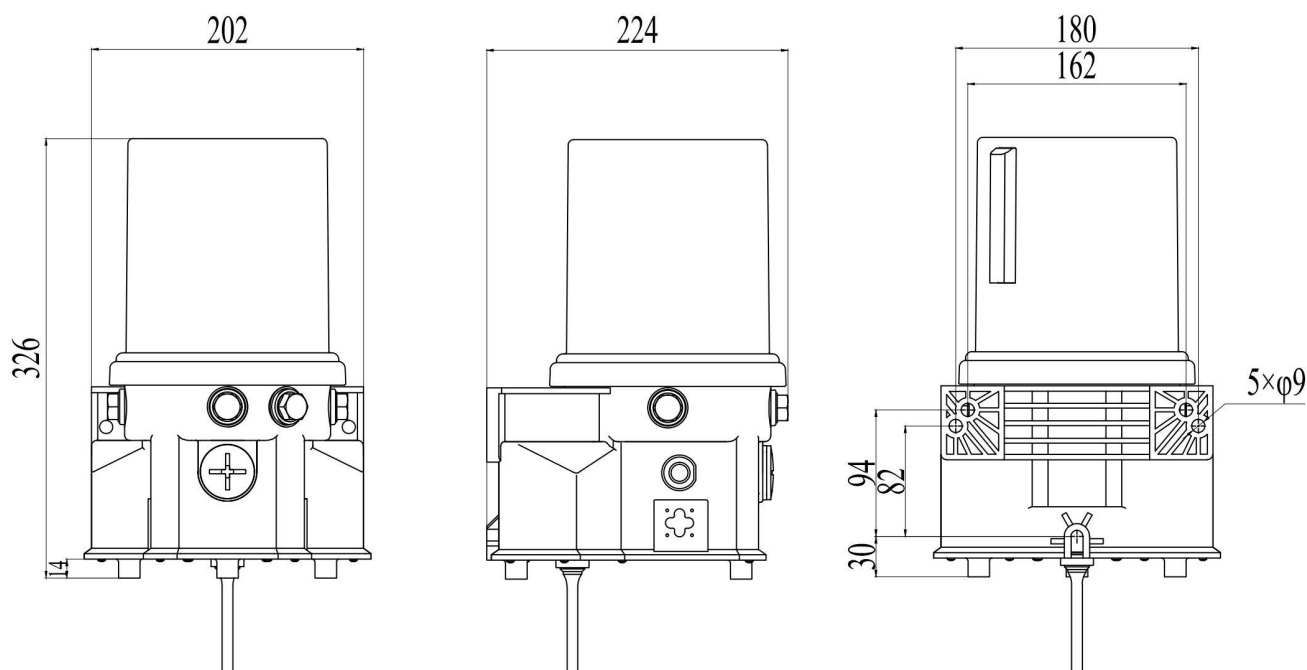
Main Components



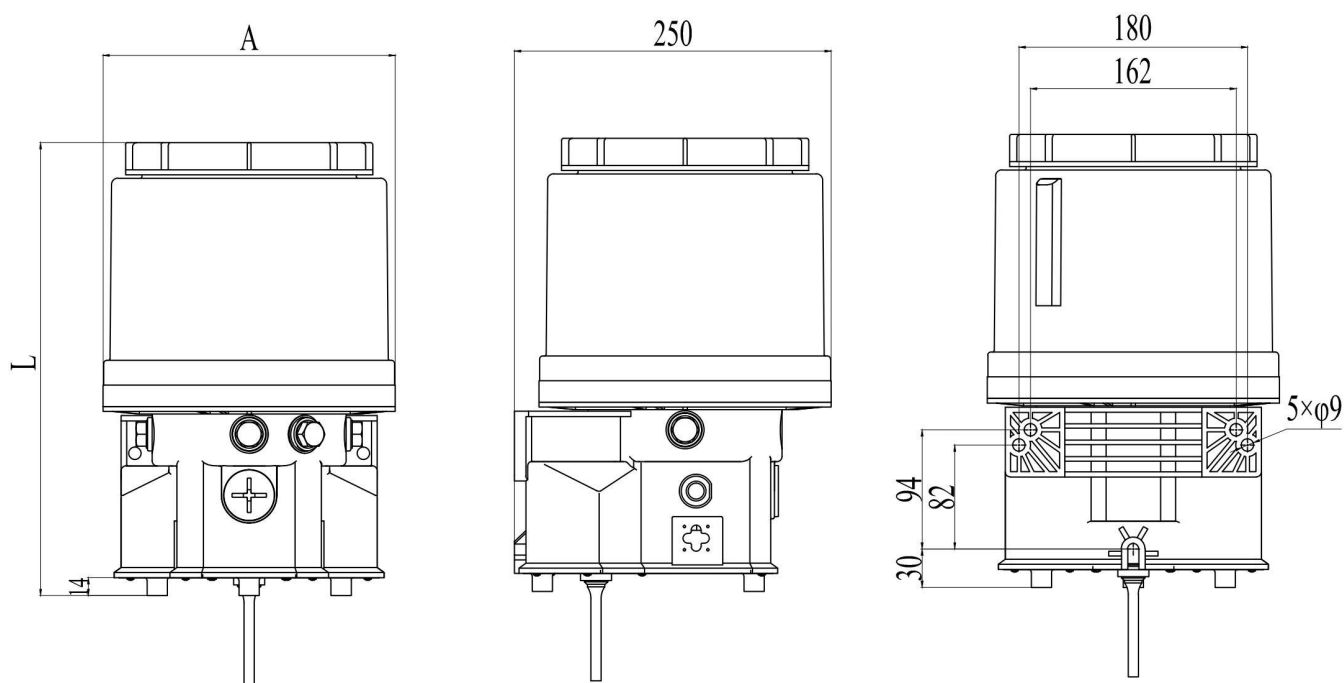
№	Part
1	8L Pump Tank
2	4L Pump Tank
3	2L Pump Tank
4	Control panel
5	Pumping Element
6	Relief valve
7	Pump base

GP203 Pump

2L Dimensions (mm)



4L & 8L Dimensions (mm) :



Reservoirs	A	L
4L	230.4	357
8L	230.4	460

Ordering information

[illegible]**Reservoir:**

02 = 2L, Without top cover

04 = 4L, With top cover

07 = 8L, With top cover

Voltages:

01 = DC12V

02 = DC24V

Timer:

X = Without timer

01 = Pause Time: 6 hours | Operating Time: 6 minutes ¹⁾

02 = Pause Time: 6 hours | Operating Time: 24 seconds

03 = Pause Time: 24 minutes | Operating Time: 6 minutes

04 = Pause Time: 24 minutes | Operating Time: 24 seconds

Low Level:

L = With level

M = Without level

Lubricant:

$$O = O_{il} \quad 2)$$

G = Grease

Grease Filling Method:

D = Plug

N = Grease Nipple

F = Push-in fitting 80220

Note:

¹⁾ When control function is selected, Mode 01 will be applied by default unless otherwise specified.

²⁾ Lubricating oil medium cannot be used in combination with "L= Low Liquid Level".

Accessories

Transparent reservoir



2L



4L



8L

Reservoir	Part Number
2L	UF-2002815
4L	UF-2002816
8L	UF-2002817

Description:

2L : Includes O-ring, vent cap, and rotation direction sticker

4L/8L : Including warning stickers, O-ring, vent cap and rotation direction stickers

Reservoir cover



Pump element



Part Number	Reservoir
UF-0101315	4L/8L

Part Number	OD	Flow per pump unit
UF-2002672	φ7	K7 - 4.4CC/min

Ultra Flow SA

LubeStar Electric Pump



2025 V1.2

LUBESTAR
ELECTRIC PUMP

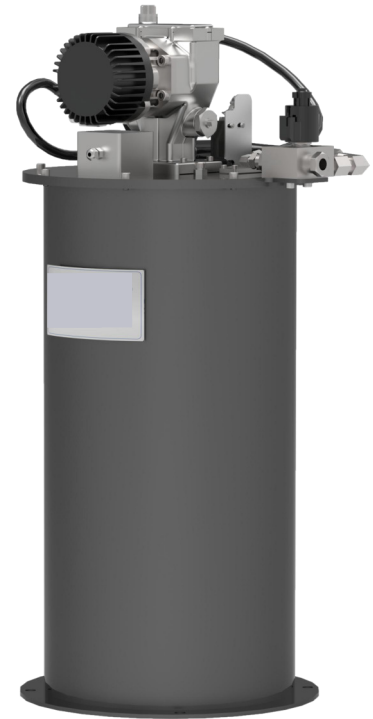
LubeStar High Performance Electric Pump

Compact and versatile, it has a unique rotary drive and modular gear configuration, allowing you to adjust the output speed of the pump motor to suit your different applications.

Lubestar pumps can be connected to 24 V DC, and the motion generated by the motor rotation is converted into reciprocating motion of the pump, providing efficient lubricant flow. The use of efficient brushless motors, high torque output, low noise, can ensure the pump stable output of lubricant at high pressure.

The higher displacement is particularly suitable for single line lubrication systems or dual-line lubrication systems.

Therefore, the pump is very compact and can be installed almost anywhere.



Features

- Brushless DC motor
- Various sizes available
- Temperature and overload protection, durable.
- Stable pressure, smooth output
- Protection level: IP65
- Suitable for medium and large lubrication systems

Applications

- Construction machinery
- Mining machinery and mining vehicles
- Metallurgy
- Steel mills
- Paper mills
- Food and beverages

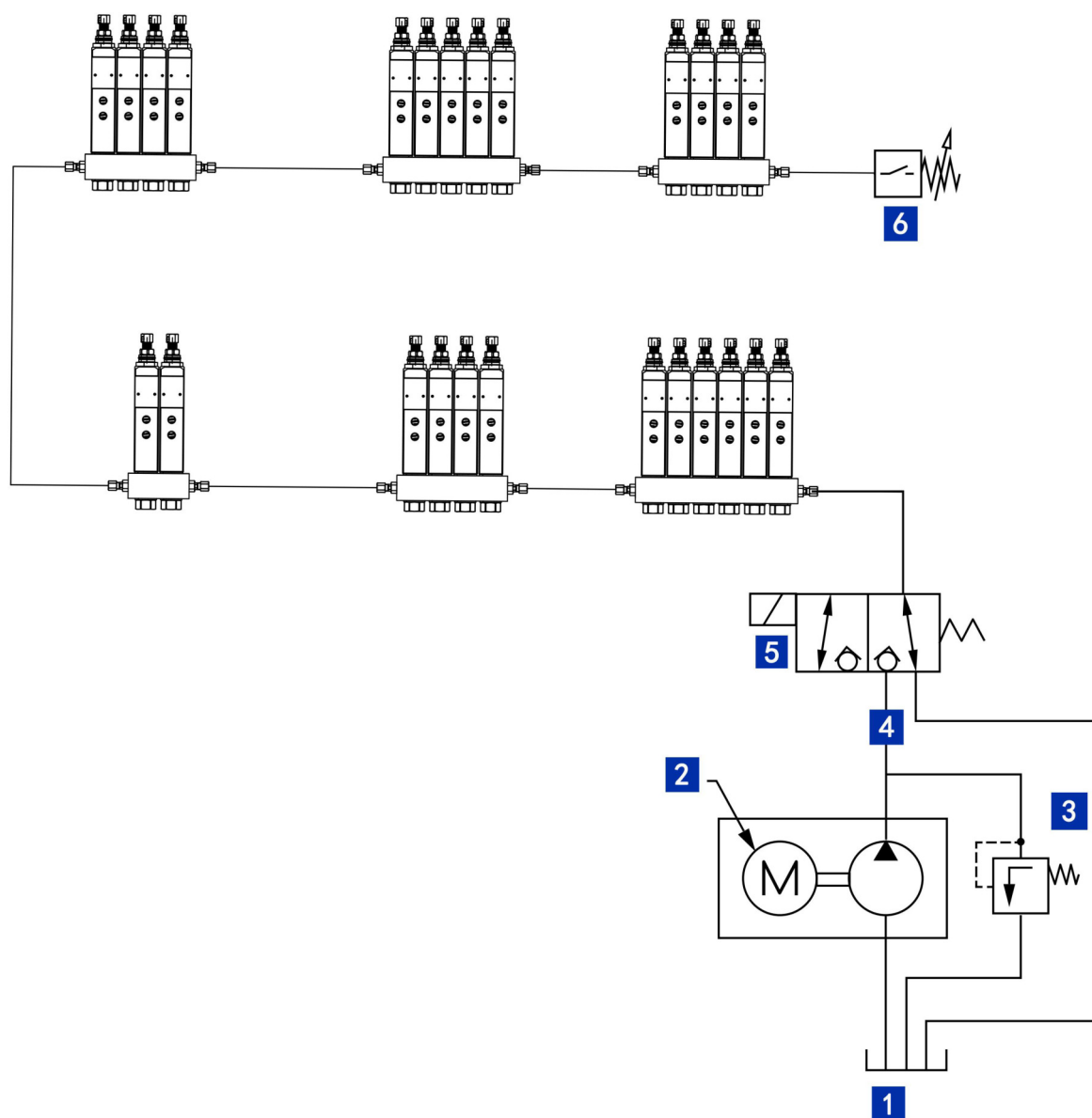
Technical Data

Functional principle	Electric piston pump
No. of output Port	1
Adjustable flowrate	Max. 120 ml/min
Max. operating pressure	Max. 345Bar
Operating temperature	-40°C ~ 65°C
Voltage	24VDC
Maximum current	9.6A
Tank capacity	27、41、 55 kg
Output Port	1/4NPTF
Ratio	19:1
Rated Power	200W
Installation Method	vertical
Material	Fluororubber, polyurethane, steel, aluminum_x0002_zinc castings

Solenoid valve data

Maximum flow capacity	7gpm (26.5L/min)
Maximum working pressure	350bar
Switching frequency (max)	15000 cyc/h
Installation torque	20~25 lbf ft (27~34 N-m)
Viscosity Range	2.8~380cSt
Rated response time	50ms

Electric schematic diagram



1 Tank

4 Lubricant outlet

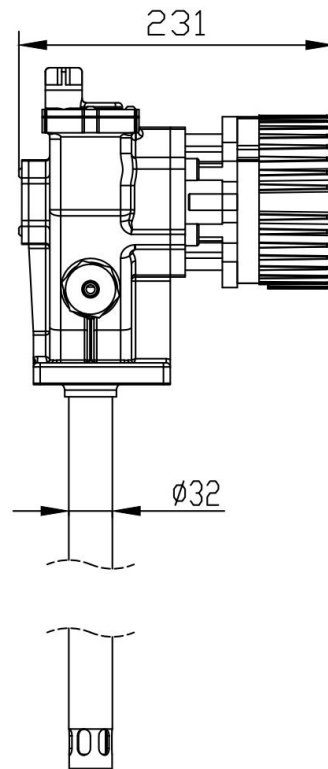
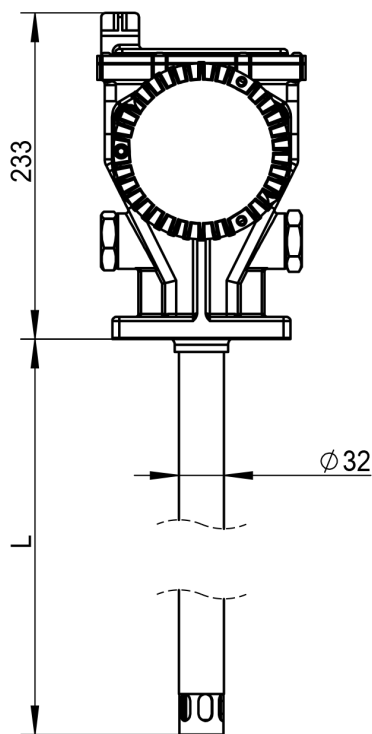
2 Electric motor

5 Solenoid valve

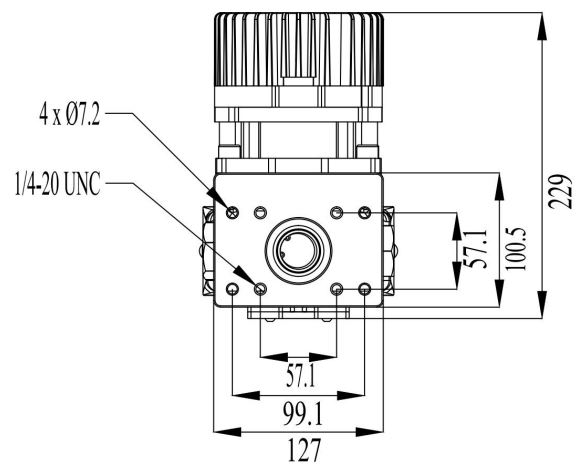
3 Safety valve

6 Terminal pressure switch

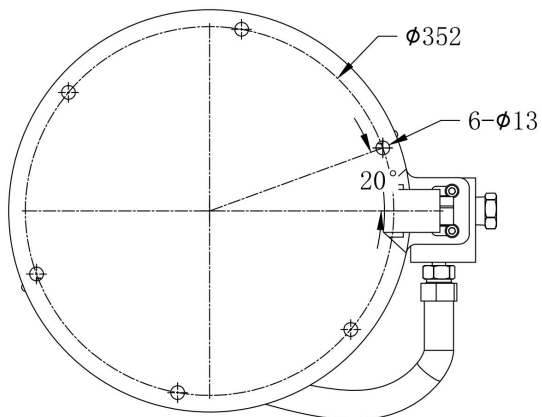
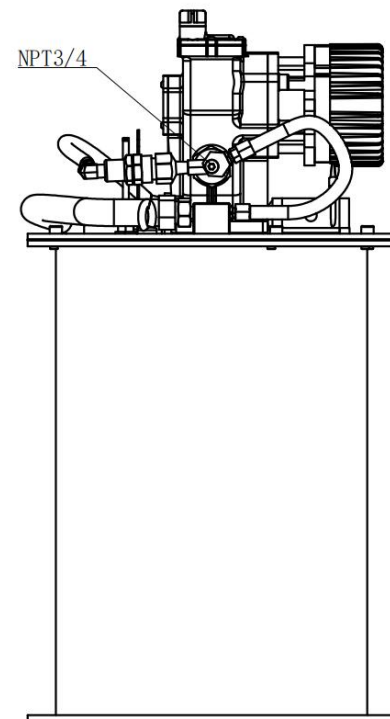
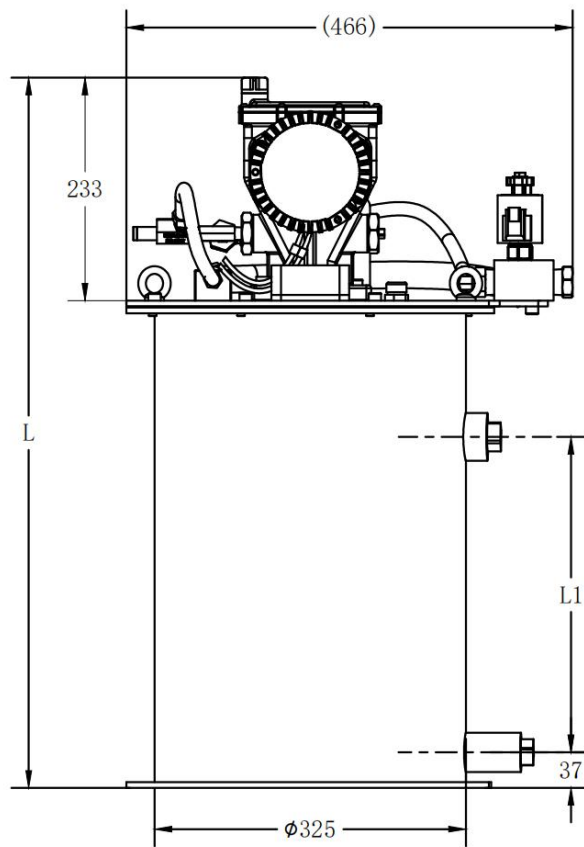
Bare pump without tank dimension



Reservoir	L
16KG	348
27KG	483
41KG/55KG	699
180KG	864

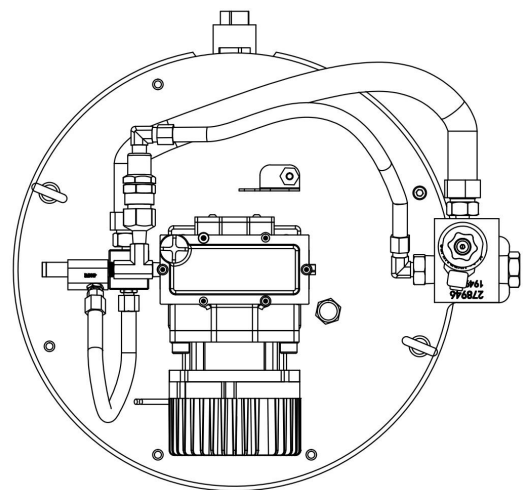
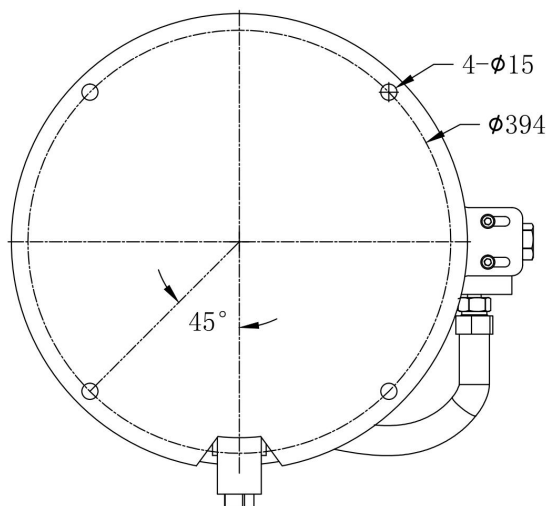
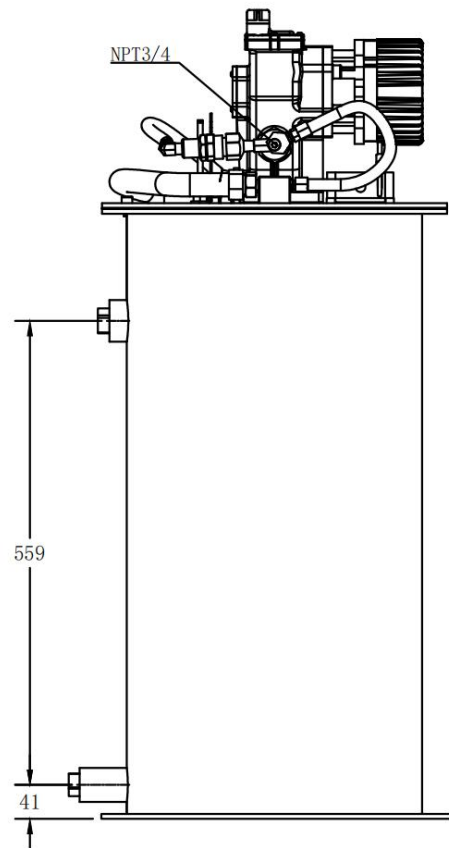
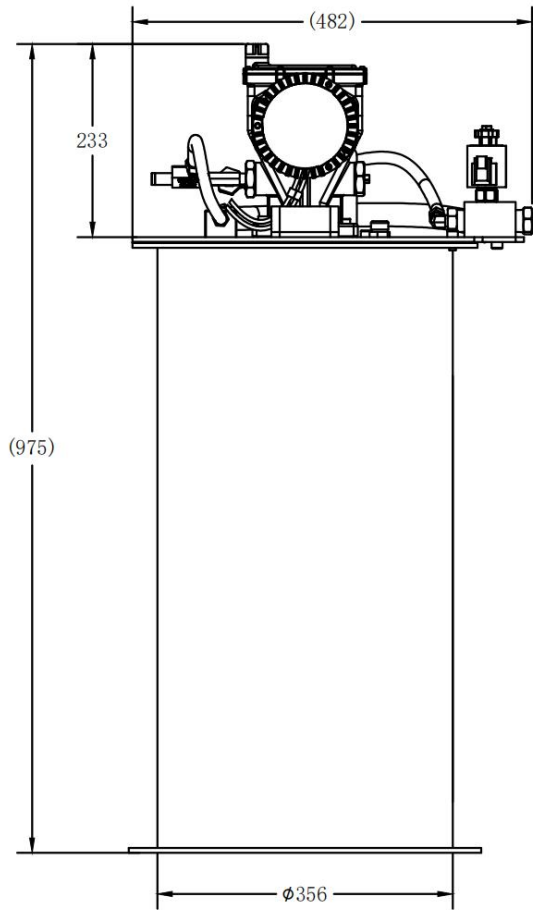


Dimension with tank



Reservoir	L	L1
27KG	741	329
41KG	950	538

55KG



Ordering information:

Model No	Part No	Description	Voltage	Reservoir	Ratio	Max. operating pressure	Metering quantity
3600010	UFELS479	Pump	24V	16KG	9:1	170bar	Max. 290ml/min
3600012	UFELS728	Pump and reservoir, with follower plate and low level	24V	27KG	19:1	345bar	Max. 120ml/min
3600013	UFELS729	Pump and reservoir, with follower plate and low level	24V	41KG	19:1	345bar	Max. 120ml/min
3600014	ULELS730	Pump and reservoir, with follower plate and low level	24V	55KG	19:1	345bar	Max. 120ml/min
3600015	ULELS736	Pump	24V	16KG	19:1	345bar	Max. 120ml/min
3600016	ULELS737	Pump	24V	27KG	19:1	345bar	Max. 120ml/min
3600017	ULELS738	Pump	24V	41/55KG	19:1	345bar	Max. 120ml/min
3600018	ULELS739	Pump	24V	180KG	9:1	170bar	Max. 290ml/min
3600019	ULELS740	Pump	24V	180KG	19:1	345bar	Max. 120ml/min

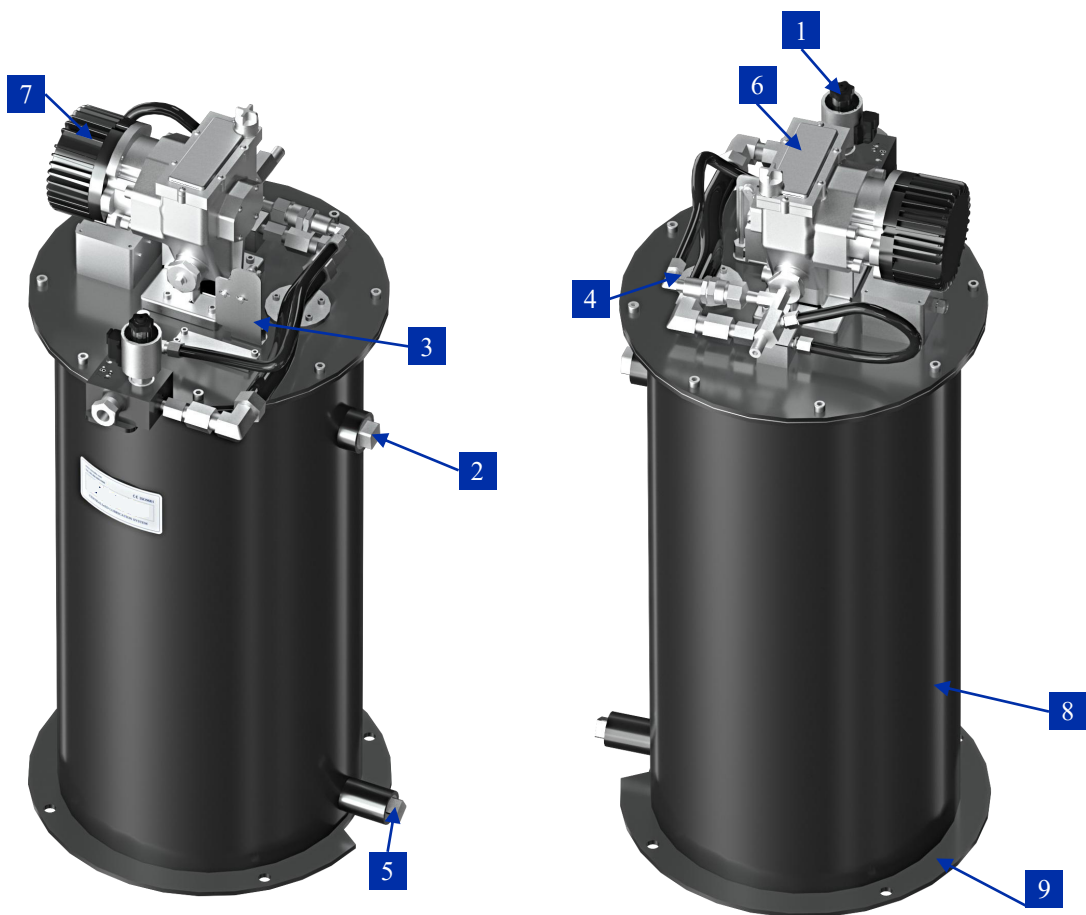


Pump




Pump and Reservoir

Product components



1	Safety valve	4	Vent port	7	Motor
2	Overflow port	5	Grease filling port	8	Pump tank
3	Low level	6	Pump body	9	Fixed plate

Tank	Model No.	Part No	KG	Description
	2000042	UF-LS0027	27	Tank kits
	2000057	UF-LS0041	41	Tank kits
	2000071	UF-LS0055	55	Tank kits

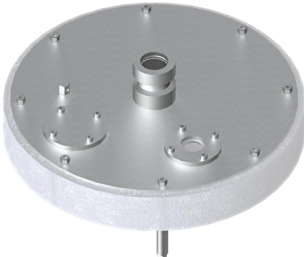


Drum cover is supplied with bolts, vent cap, gasket and eyebolts.

Tank assembly ordering code includes complete drum cover.

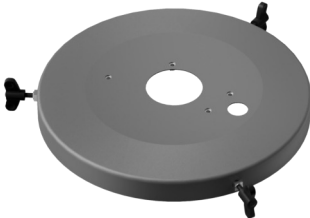
Level sensor and follower plate must be ordered separately.

Follower plate	Part No	KG
	UF-LS1041	27/41
	UF-LS1055	55

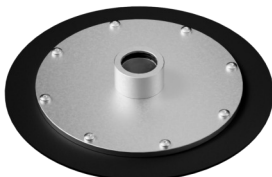


Cover, Follower plate assembly	Part No	KG	Description
	UF-LS0016	16	Cover assembly
	UF-LS1004	16	Follower plate assembly

16KG Cover assembly

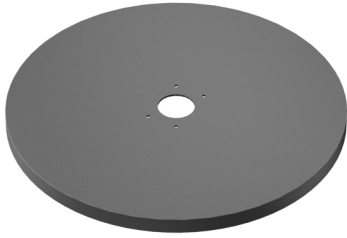


16KG Follower plate assembly

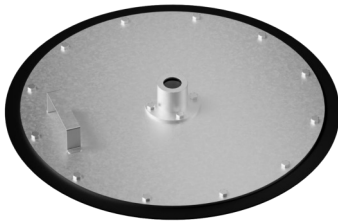


Cover, Follower plate assembly

180KG Cover assembly

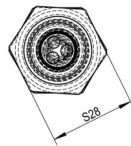
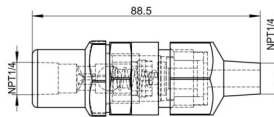


180KG Follower plate assembly



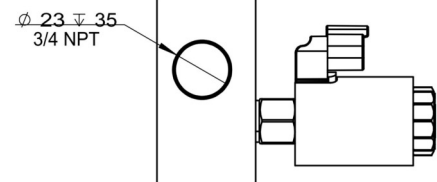
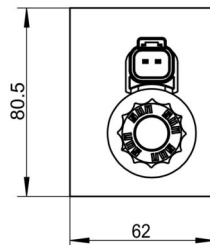
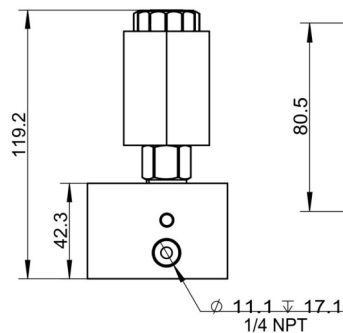
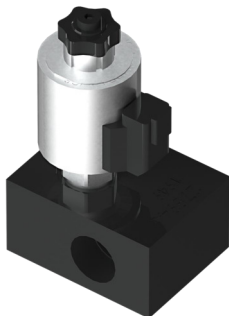
Part No	KG	Description
UF-LS0180	180	Cover assembly
UF-LS1008	180	Follower plate assembly

Outlet check valve assembly



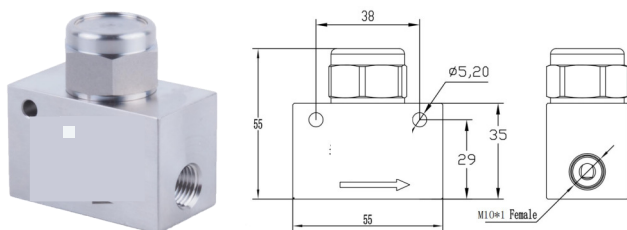
Part No	Thread
UF-LS1005	NPT1/4

Solenoid release valve



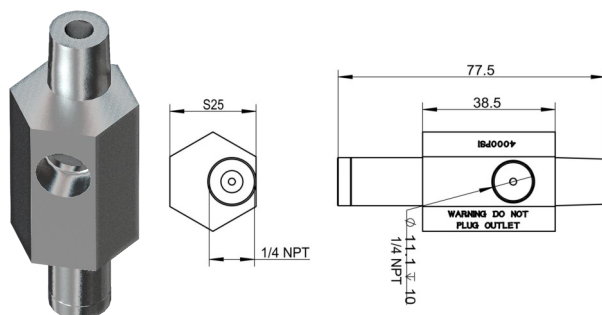
Part No	Thread
UF-LS1001	NPT3/4

Inline Filter



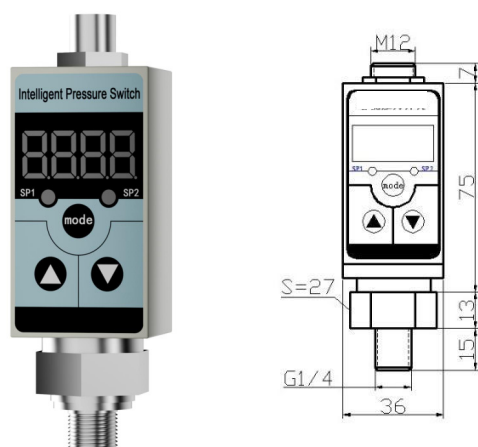
Part No	Accuracy	Thread
UF-FL45180	180µm	M10*1
UF-FL45125	125µm	M10*1

Safety valve



Part No	Thread	Description
UF-5FI10	NPT1/4	275bar/4000psi

Pressure switch



Part No	Thread
UF-EPW-S1	G1/4


Controller

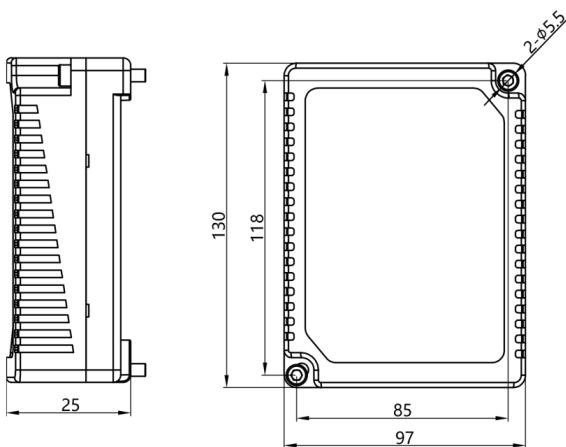
Model

UF-MC-II-A

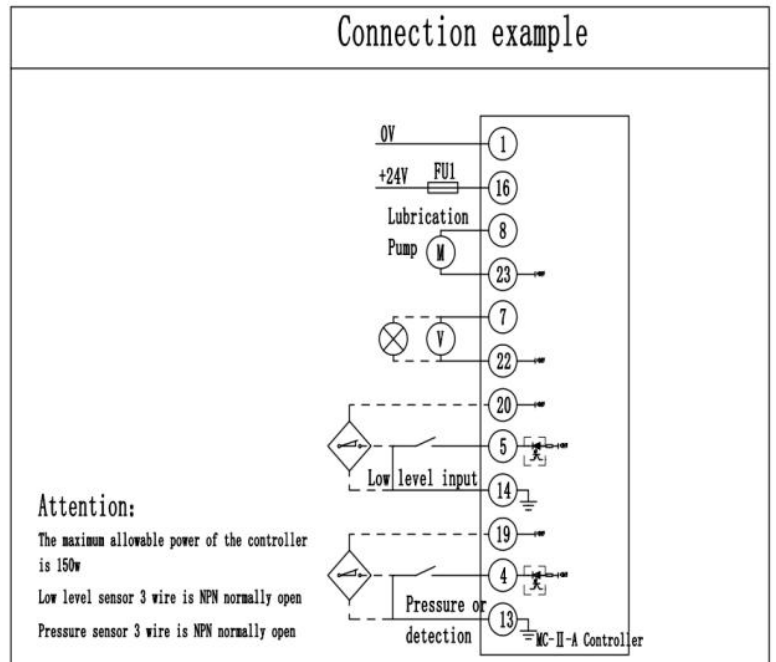
wiring



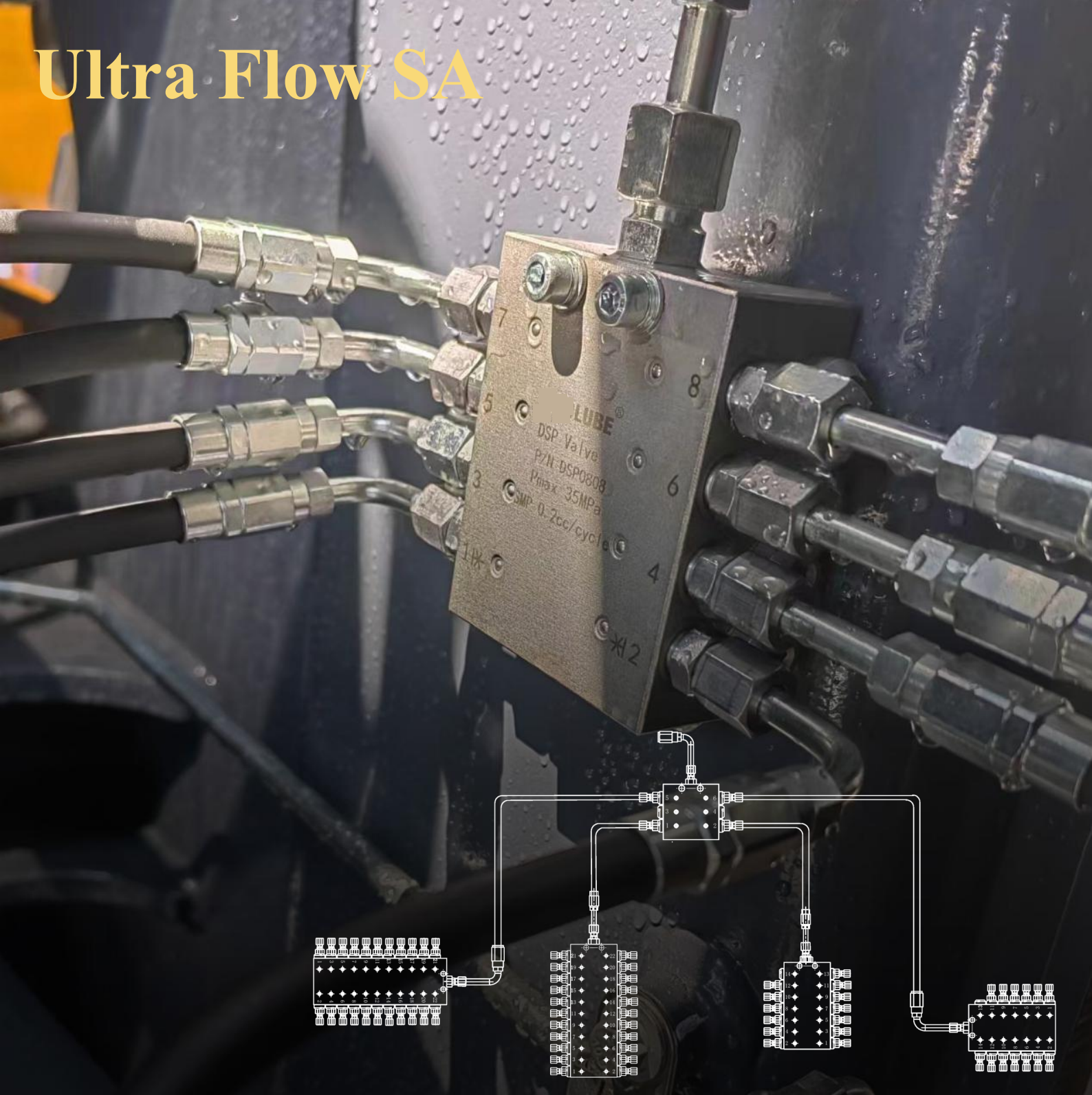
Controller Plug	Pin Function Description	
	16	+24V Power Supply +
	1	0V Power Supply -
	23	Motor +
	8	Motor -
	22	Electromagnetic valve + / lubrication indicator +
	7	Electromagnetic Valve - / lubrication Indicator -
	20	Low-level power +
	5	Low-level signal
	14	Low-level power -
	19	Sensor power +
	4	Sensor signal
	13	Sensor power -



Connection example



Ultra Flow SA



DSP Distributor

- Max. Pressure 35Mpa, 5000psi
- Sizes up to 22 outlets
- High operating pressure
- Unique internal crossporting technology
- Available in different materials

Single block progressive distributor valve

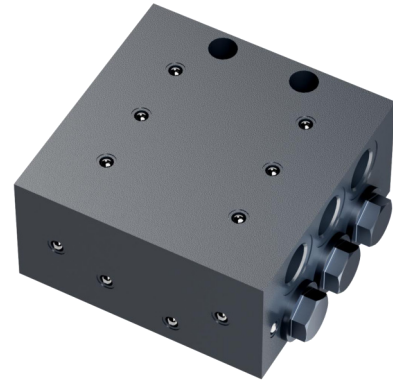
The DSP is a single block progressive divider valve that is ideal for applications where space is limited.

It is available in 6,8,10,12,18,20 and 22 outlet versions, each with an output of 0.2 cm³ inch per cycle.

An outlet can also be merged with the sequential outlet on the block by removing the special outlet fitting and installing a plug.

Visual or electronic monitoring can be achieved simply by removing a plug and installing a visual or electronic add-on device as shown below. The spools in a progressive metering valve operate sequentially partitioning equally across the outlets, the grease being pumped into the metering block inlet.

The grease pumped inside of the block is distributed by the piston dispensers of the progressive dosing device equally among the different outputs. In case a single output becomes blocked, the pistons stop their activity allowing for the control of the entire system by means of a single device for this purpose.



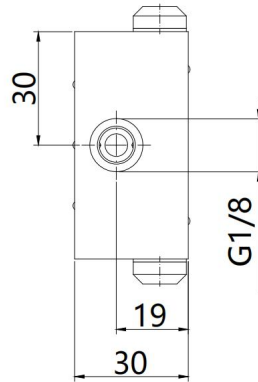
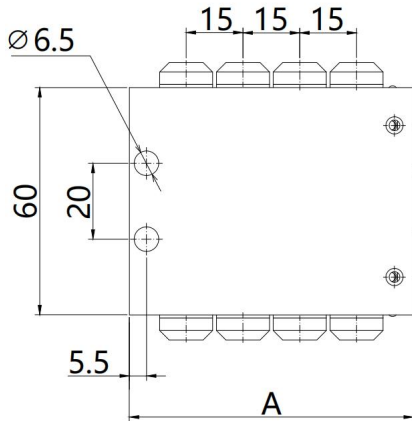
Characteristics

- Sizes up to 22 outlets
- High operating pressure
- Available in different materials
- Exact lubricant metering
- Unique internal crossporting technology
- Optionally equipped with visual monitoring pin or with electrically monitored piston detector

Applications

- Construction and mining
- Farm machinery
- Industrial equipment
- Renewable energies

Dimensions:



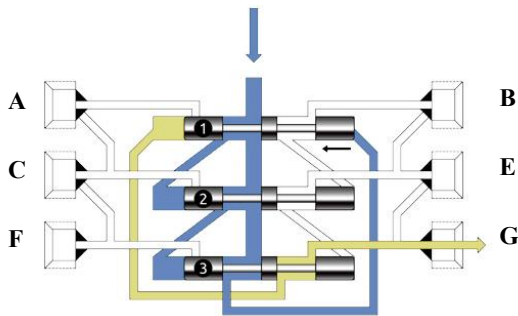
Outlets number	A
6	60
8	75
10	90
12	105
14	120
16	135
18	150
20	165
22	180

Product feature :

Technical parameters

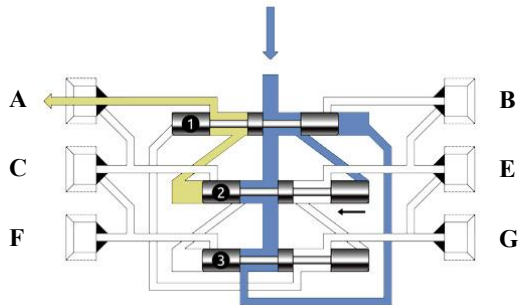
Min. Pressure	Min. 20 Bar
Max. Pressure	Max. 350 Bar
Lubricants	Oil 46 - NLGI-2#
Operating temperature	-40 °C to 200 °C
Discharge (for outlet)	0.2ml/cyc
Inlet thread	G1/8
Outlet thread	M10x1
Outlets number	6 - 22
Piston cycles	Max 200 cyc/min
Material	Carbon steel or SS

Outlets can be combined, Outlet * 1 and * 2 should never be closed.



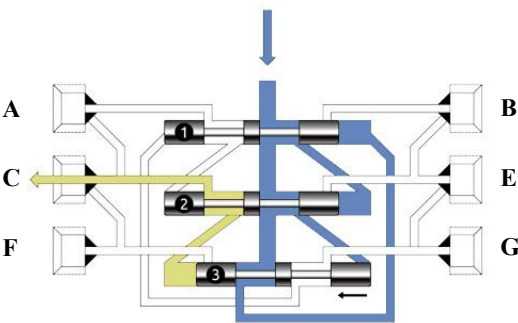
1

Lubricant flow pressure (blue) moves piston 1 to the left allowing lubricant discharge (yellow) from G.s



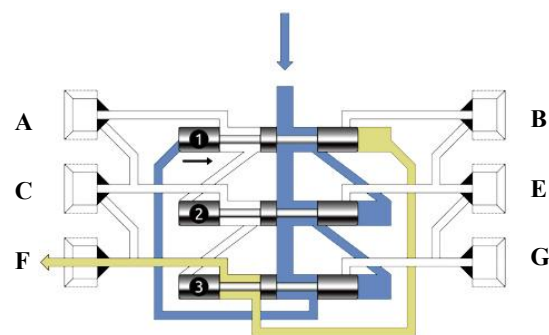
2

When piston 1 reaches its limit, lubricant flow pressure (blue) operates on piston 2. Lubricant volume (yellow) discharges from A.



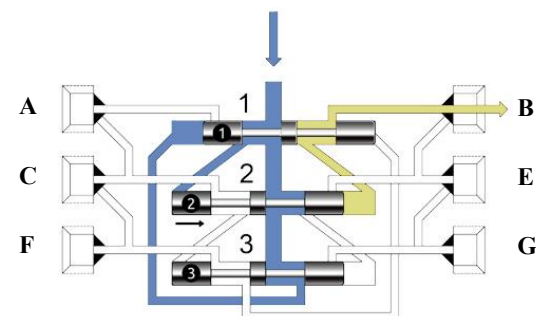
3

When piston 2 reaches its limit, lubricant flow pressure (blue) operates on piston 3. Lubricant volume (yellow) discharges from C.



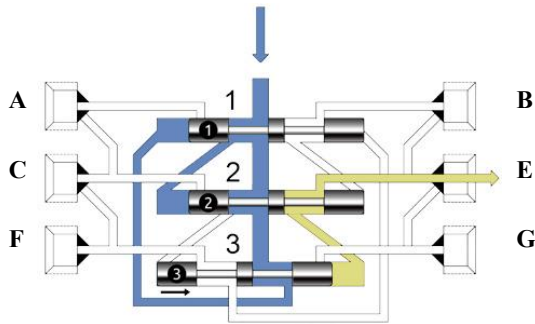
4

When piston 3 reaches its limit, lubricant flow pressure (blue) operates on piston 1. Lubricant volume (yellow) discharges from F.



5

When piston 1 reaches its limit, lubricant flow pressure (blue) operates on piston 2. Lubricant volume (yellow) discharges from B.



6

When piston 2 reaches its limit, lubricant low pressure (blue) operates on piston 3. Lubricant volume (yellow) discharges from E. The system is ready for a new cycle.

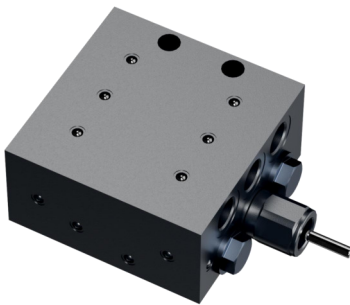
Ordering Number - without inlet and outlet fittings

Standard



Model Number	Outlets number	Part Number
4000152	6	UF-31N03
4000153	8	UF-31N04
4000154	10	UF-31N05
4000155	12	UF-31N06
4000156	14	UF-31N07
4000491	16	UF-31N08
4000158	18	UF-31N09
4000157	20	UF-31N10

With visual pin



The visual pin shows the piston movement, monitoring the proper operation of the entire system.

Model Number	Outlets number	Part Number
4000026	6	UF-33V03
4000027	8	UF-33V04
4000492	10	UF-33V05
4000499	12	UF-33V06
4000493	14	UF-33V07
4000496	16	UF-33V08
4000494	18	UF-33V09
4000495	20	UF-33V10

Ordering information:

	DSP-						
<p>A = Zinc-nickel B= Zinc-nickel black</p>							
<p>Outlet Number</p> <p>06=6 08=8 10=10 ⋮ 22=22</p>							
<p>Inlet Connector</p> <p>XX= Without inlet fittings 06=Ø6mm 08=Ø8mm</p>							
<p>Inlet Connector shape</p> <p>D= Straight fitting assembly H= 90° fitting assembly</p>							
<p>Type</p> <p>XXX= without pin</p>							
<p>Visual Pin</p> <p>Cxx = Install the outlet in xx</p>							
<p>Ultra sensor</p> <p>KRxx = Install the outlet in xx</p>							
<p>Plug</p> <p>XD=3-20</p>							
<p>Outlet Connector</p> <p>XX= Without outlet fittings S6= Ø6mm Fitting with check valve Q6= Ø6mm Push-in Fitting</p>							

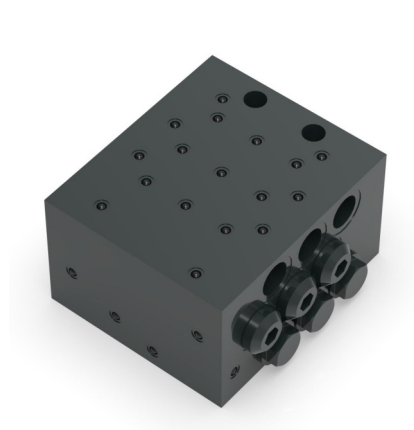
Ultra Flow SA

DSPP Distributor



- Max. Pressure 35Mpa, 5000psi
- Sizes up to 22 outlets
- High operating pressure
- Unique internal crossporting technology
- Ten different metering screw sizes available

Integral Leakless High Pressure Distributor Valve



DSPP type metering device is a compact single block progressive metering device with adjustable output by means of different metering screw sizes. The screw meters the output for a pair of outlets (opposite outlets). For direct mount of fittings with no need of any sealing in between. It is a versatile metering device available in many variants regarding type of monitoring or surface treatment.

Features and benefits

- Ten different metering screw sizes available
- Optionally visual or electrical monitoring
- Ideal for use as primary metering device

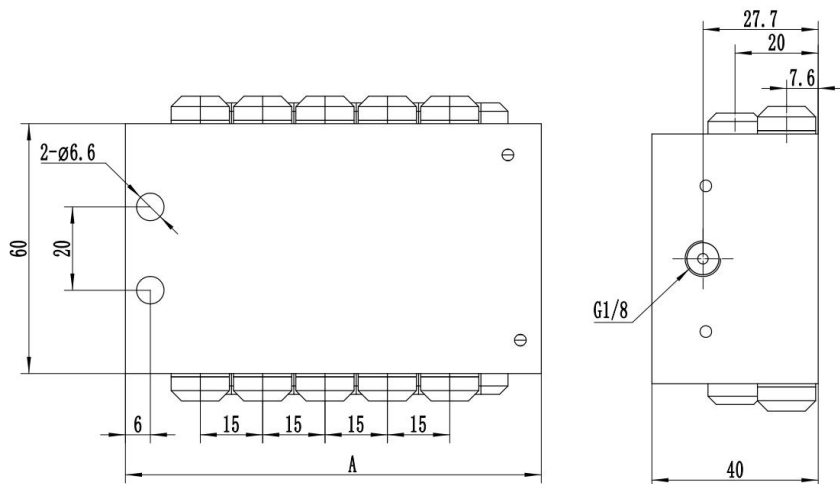
Applications

- Construction and mining
- Farm machinery
- Industrial equipment

Technical parameters	
Operating pressure	20~350 Bar
Lubricants	Oil - NLGI 2#
Operating temperature	-25 °C to 70 °C
Metering quantity per cycle and outlet	min 0.08 cc/cyc; max 1.80 cc/cyc
Inlet port	G1/8
Outlet port	M10x1
Outlets	6 - 22
Material	Nickel-plated steel

- By crossporting or closing outlets possible to reduce outlet number below given minimum Outlet #1 and #2 should never be closed
- Depending on metering screw valid for a pair of opposite outlets

Dimensions (mm)



Outlets	A
6	70
8	85
10	100
12	115
14	130
16	145
18	160
20	175
22	190

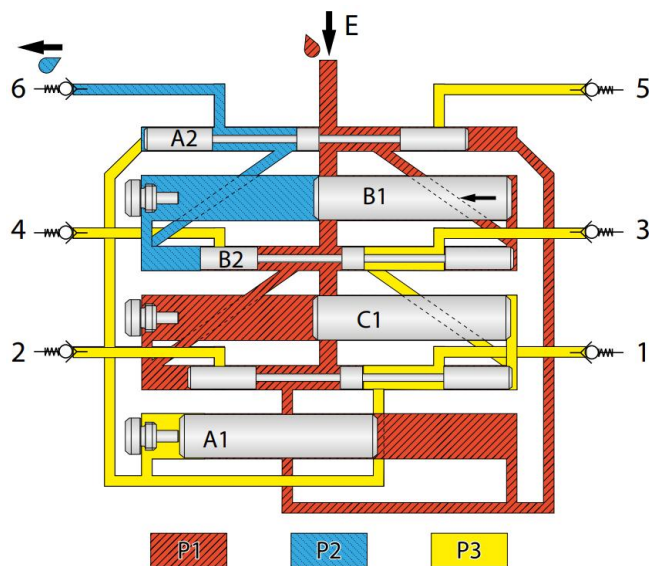
Function of the lubricant in the DSPP metering device

The DSPP 6 metering device is used as an example to show the piston movements and the lubricant supply to the individual outlets.

P1 = Lubricant supplied by the lubrication pump

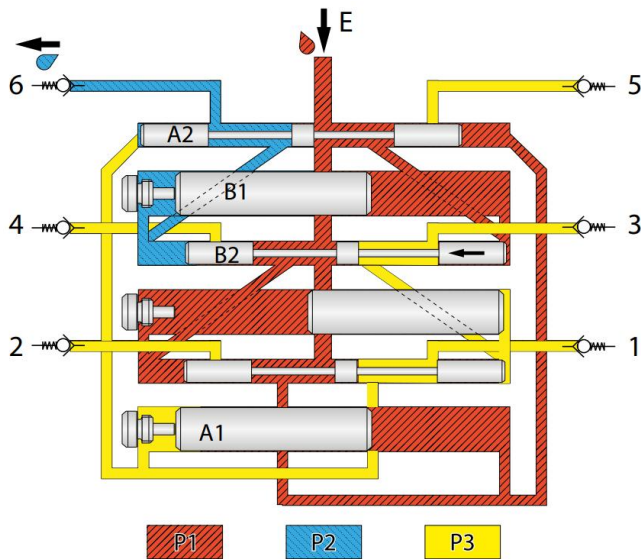
P2 = Lubricant displaced by the piston of the metering device

P3 = Lubricant not being moved



Phase 1

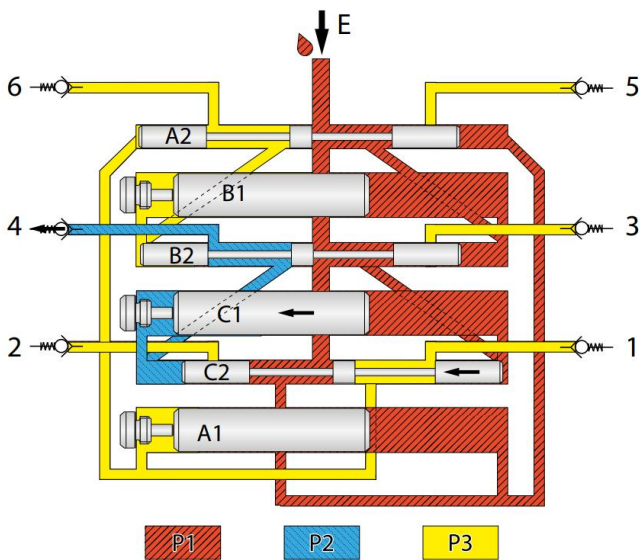
The lubricant P1 supplied by the pump flows through the inlet E into the metering device. By doing so metering piston B1 is moved into its left end position. As a consequence the corresponding lubricant volume P2 is supplied to outlet 6.



Phase 2

As soon as metering piston B1 reaches its left end position, the pressurized lubricant P2 moves the control piston B2 leftward and additionally displaces the lubricant in front of control piston B2 to outlet 6.

The total output of outlet 6 corresponds to the output of metering piston B1 and control piston B2.



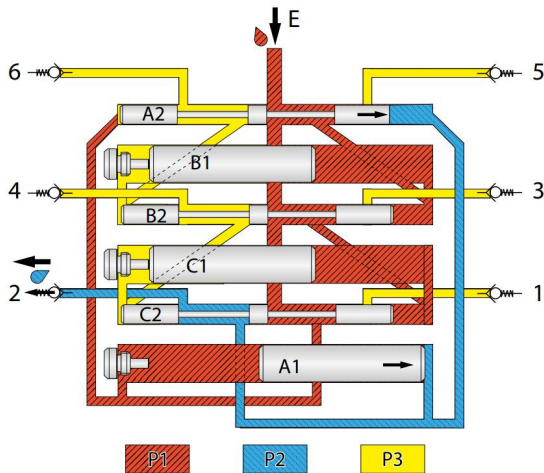
Phase 3

The control piston B2 has reached its left end position. Thereby it opens the connection duct to the right end of control piston C2 and metering piston C1. The pressurized lubricant P1 is now located at the right end of control piston C2 and metering piston C1 and first moves metering piston C1 to the left due to its larger cross-section and then displaces the lubricant enclosed on the left side of metering piston C1 to outlet 4.

Phase 4

As soon as metering piston C1 reaches its left end position, the pressurized lubricant P2 moves the control piston C2 leftward and additionally displaces the lubricant in front of control piston C2 to outlet 4.

The total output of outlet 4 corresponds to the output of metering piston C1 and control piston C2.



Phase 5

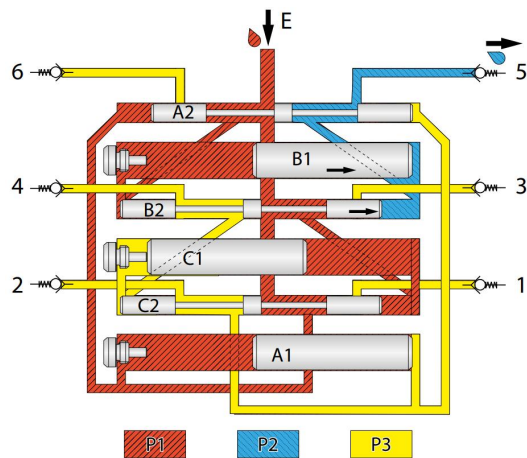
The control piston C2 has reached its left end position. Thereby it opens the connection duct to the left end of control piston A2 and metering piston A1. The pressurized lubricant P1 is now located at the left end of control piston A2 and metering piston A1.

Due to its larger cross-section lubricant P1 first moves metering piston A1 to the right and then displaces the lubricant enclosed on the right side of metering piston A1 to outlet 2.

Phase 6

As soon as metering piston A1 reaches its right end position, the pressurized lubricant P1 moves the control piston A2 (black arrow) rightward and additionally displaces the enclosed lubricant in front of control piston C2 to outlet 2.

The total output of outlet 2 corresponds to the output of metering piston A1 and control piston A2.



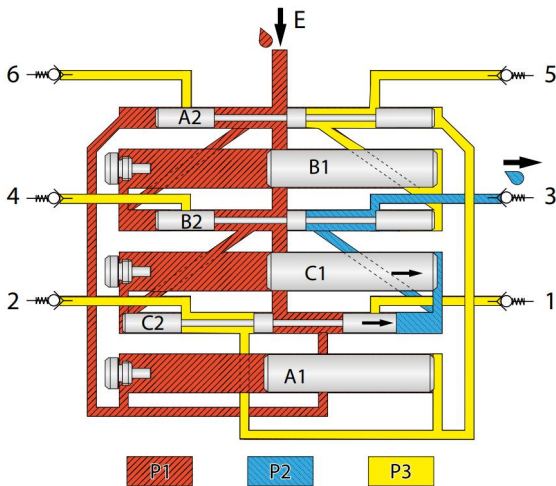
Phase 7

Control piston A2 has reached its right end position. Thereby it opens the connection duct to the left end of control piston B2 and metering piston B1. The pressurized lubricant P1 is now located at the left end of control piston B2 and metering piston B1. Due to its larger cross-section lubricant P1 first moves metering piston B1 to the right and then displaces the lubricant enclosed on the right side of metering piston B1 to outlet 5.

Phase 8

As soon as metering piston B1 reaches its right end position, the pressurized lubricant P1 moves the control piston A2 (black arrow) rightward and additionally displaces the enclosed lubricant in front of control piston C2 to outlet 5.

The total output of outlet 5 corresponds to the output of metering piston B1 and control piston B2.



Phase 9

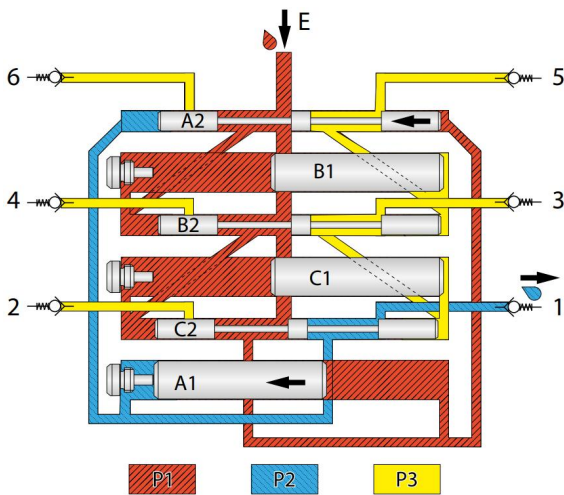
The control piston B2 has reached its right end position.

Thereby it opens the connection duct to the left end of control piston C2 and metering piston C1. The pressurized lubricant P1 is now located at the left end of control piston C2 and metering piston C1.

Due to its larger cross-section lubricant P1 first moves metering piston C1 to the right and then displaces the lubricant enclosed on the right side of metering piston C1 to outlet 3.

Phase 10

As soon as metering piston C1 reaches its right end position, the pressurized lubricant P1 moves the control piston C2 (black arrow) rightward and additionally displaces the enclosed lubricant in front of control piston C2 to outlet 3. The total output of outlet 3 corresponds to the output of metering piston C1 and control piston C2.



Phase 11

The control piston C2 has reached its right end position.

Thereby it opens the connection duct to the right end of control piston A2 and metering piston A1. The pressurized lubricant P1 is now located at the left end of control piston A2 and metering piston A1.

Due to its larger cross-section lubricant P1 first moves metering piston A1 to the left and then displaces the lubricant enclosed on the left side of metering piston A1 to outlet 1.

Phase 12

As soon as metering piston A1 reaches its left end position, the pressurized lubricant P1 moves the control piston A2 leftward and additionally displaces the enclosed lubricant on the left side of control piston A2 to outlet 1.

The total output of outlet 1 corresponds to the output of metering piston A1 and control piston A2.

Now a full cycle of the metering device has been completed.

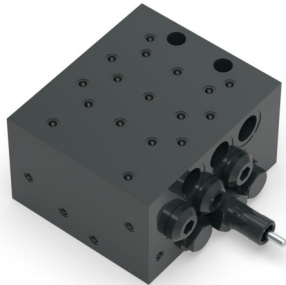
Ordering Number - without inlet and outlet fittings

Standard



Model number	Outlets	Part number
4000068	6	UF-35N03
4000069	8	UF-35N04
4000070	10	UF-35N05
4000071	12	UF-35N06
4000072	14	UF-35N07
4000073	16	UF-35N08
4000074	18	UF-35N09
4000497	20	UF-35N10
4000498	22	UF-35N11

With visual pin



Model number	Outlets	Part number
4000501	6	UF-35V03
4000502	8	UF-35V04
4000503	10	UF-35V05
4000504	12	UF-35V06
4000505	14	UF-35V07
4000506	16	UF-35V08
4000507	18	UF-35V09
4000508	20	UF-35V10
4000509	22	UF-35V11

Ordering information

DSPP-

--	--	--	--	--	--	--

A =Zinc-nickel
B= Zinc-nickel black

Outlet Number

06=6
08=8
10=10
⋮
22=22

Inlet Connector

XX=Without inlet fittings
06=Ø6mm
08=Ø8mm

Inlet Connector shape

D= Straight fitting assembly
H= 90° fitting assembly

Type

XXX= without pin

Visual Pin

Cxx = Install the outlet in xx

Ultra sensor

KRxx = Install the outlet in xx

Plug

XD=3-22











Outlet Connetor

XX= Without outlet fittings
S6= Ø6mm Fitting with check valve
Q6= Ø6mm Push-in Fitting
M6=Ø6mm Nut and fellule

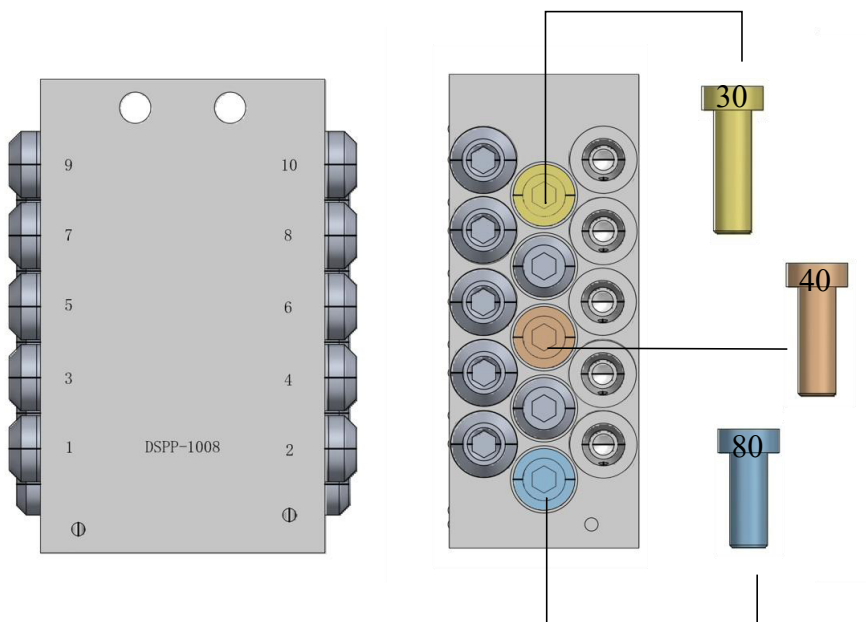
The output of the DSPP metering devices can be adapted by using different metering screws.

Unused oil outlets can also be closed by using metering screws as follows:

- Remove protective caps from the metering device
- Screw the required metering screw into the corresponding outlet
- Repeat the procedure for all other outlets.

J	I	H	G	F	E	D	C	B	A	ml
1.80	1.40	1.00	0.80	0.60	0.40	0.30	0.20	0.14	0.08	ml
180	140	100	80	60	40	30	20	14	8	
										

For pre-assembled metering devices, the positions of the metering screws are indicated in descending order always, i.e. the counting sequence starts at the metering piston level corresponding to the highest outlet number and continues in descending.



Example:

DSPP-0608xxxxxxxxx-

ABCxxxxxxxxx

(x = placeholder in type

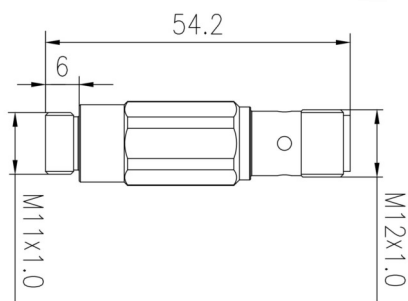
identification code) DSPP

with metering screws GFH in

the metering piston levels

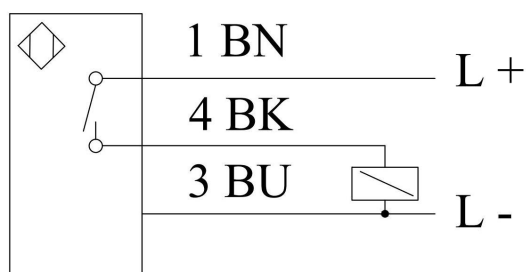
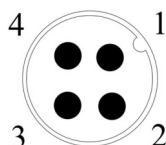
(medium levels) 6, 4, and 2.

Ultra sensor



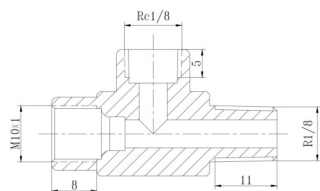
Model number	Part number	Connecting thread	Type
0101587	UF-124581	M12*1, 4Core	PNP

** Please inquire for NPN type

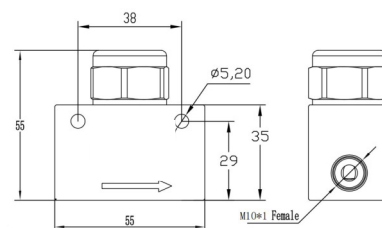


Model number	Part number	Type	Description
0500148	UF-124582	Straight	2m
0500180	UF-124583	Elbow	2m

With grease nipple inlet assembly



Inline filter

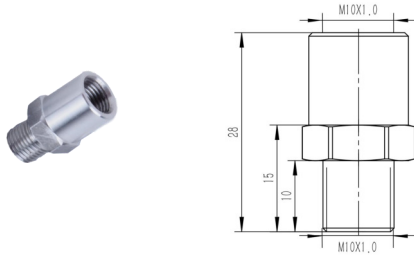


Model number	Part number	Thread F	Thread M
5000195	UF-3T1002	M10x1	R1/8

Model number	Part number	Rate	Thread F	Material
5000442	UF-AL45180	180µm	M10*1	AL
5000443	UF-AL45125	125µm	M10*1	

To order filters with other rate, please contact your sales manager.

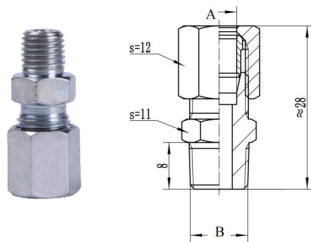
Inset filter 70µm



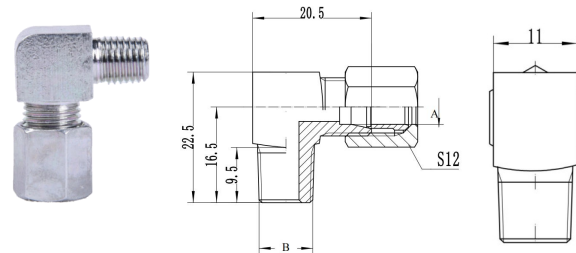
Model number	Part number	Thread
0100945	UF-31F10	M10x1
5000444	UF-31F02	G1/8

Inlet fittings

Straight Connector assembly



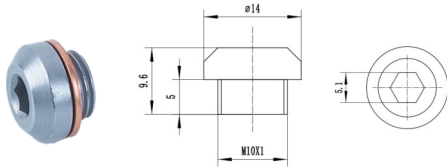
90° Elbow assembly



Model number	Part number	A	B	Material	Model number	Part number	A	B	Material
0601063	UF-5DM0602	Ø6	R1/8	Zinc-Nickel Plated	0600933	UF-5HM0602	Ø6	R1/8	Zinc-Nickel Plated
0601275	UF-5DM0402	Ø4	R1/8		0601276	UF-5HM0402	Ø4	R1/8	

Plug:

Outlet plug

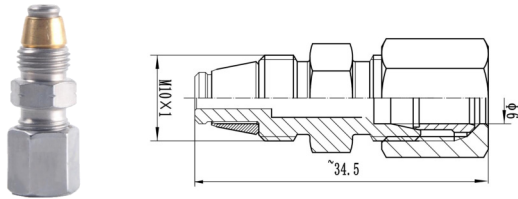


** inquire for plugs without washer
Also supplied in SS

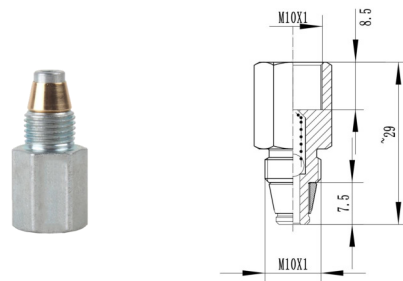
Part number	Name	OD	Material
UF-1300134	Outlet plug	M10*1	Zinc-Nickel Plated
UF-1300594	Outlet plug	M10*1	Zinc-nickel black
UF-0100595	Copper washer	M10*1	Copper

Outlet fittings:

Straight fitting with check valve



Straight fitting with check valve



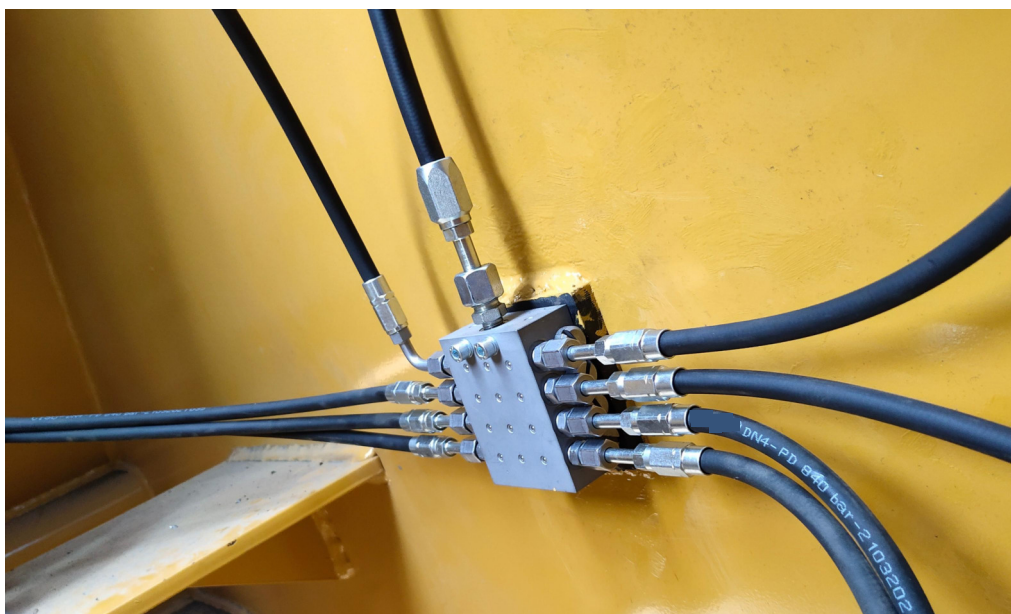
Model No	Part number	OD	Thread	Material
0600171	UF5CM0610	Ø6	M10*1	Zinc-Nickel Plated
0601186	UF5CM0610	Ø6	M10*1	Zinc-nickel black

Model No	Part number	F.Thread	M.Thread	Material
0300348	UF5DC10	M10*1	M10*1	Zinc-Nickel Plated

Push-in Fittings with check valve



Part number	OD	Thread	Material
UF0601216	Ø4	M10*1	Zinc-Nickel Plated
UF0600967	Ø6	M10*1	





Ultra Flow SA

VB

Distributor

- Max. Pressure 30Mpa, 4200psi
- Sizes up to 20 outlets
- Metering sections with variable metering amount
- Internal and external consolidation of outlets

Metering elements for progressive distributor of oil and grease

A typical VB distributor valve consists of a "first piece", a "tail piece" and 3 to 10 working pieces. Can provide 3 to 20 lubrication points of lubrication, VB distributor valve working piece, a variety of specifications of displacement for selection. The double outlet working piece (after the specification value of the working piece, double outlet) and has two oil outlets, which can be set as the side or upper output; the single outlet (after the specification value of the working piece, the S represents the single outlet) has one oil outlet, which can be at either end of the working piece, and the other end needs to be blocked. Note: that the double outlet working piece should not block any outlet, otherwise it will affect the normal operation.

Magnetic and electronic proximity switch cycle indicators can be easily configured to provide positive protection for successful lubrication



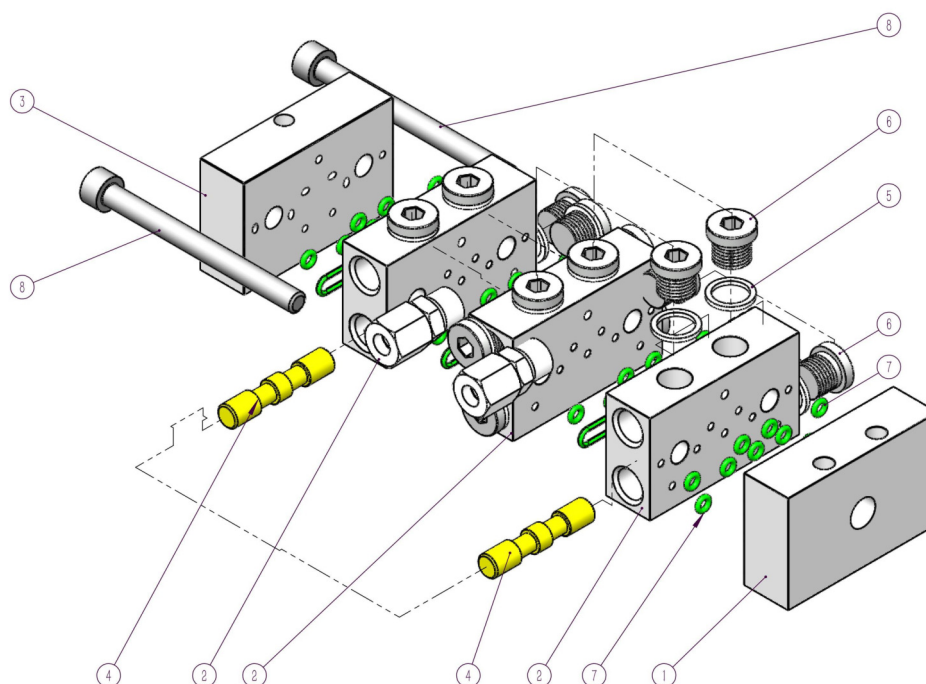
Characteristics

- Volumetric flow of up to 0.08ml~0.64cc/cyc
- Universal use in continuous or intermittent operation
- Metering sections with variable metering amount
- Internal and external consolidation of outlets
- Visual or electrical monitoring

Applications

- Construction and mining
- Farm machinery
- Industrial equipment
- Renewable energies

Product composition :



1 — First element

5 — Gasket

2 — Divider element

6 — Plug

3 — Tail element

7 — O-ring

4 — Plunger

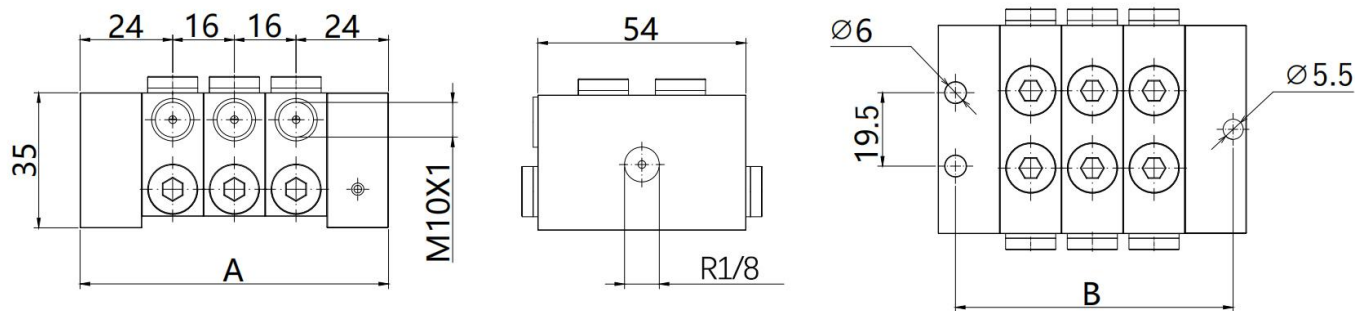
8 — Bolt

Technical parameters

Operating pressure	Max 30Mpa
Lubricants	Oil 46 to Grease NLGI-2
Operating temperature	-40 °C to 120 °C
Inlet thread	R1/8
Outlet thread	M10x1
Outlets number	Max. 20
Coating	Zinc plated

VB Distributor

Dimensions:



Number of work	A(mm)	B(mm)	Number of work	A(mm)	B(mm)
3	80	72	7	144	136
4	96	88	8	160	152
5	112	104	9	176	168
6	128	120	10	192	184

Notes: A and B in the above table are theoretical values, which may have errors with real objects due to the influence of cumulative assembly errors of distributors.

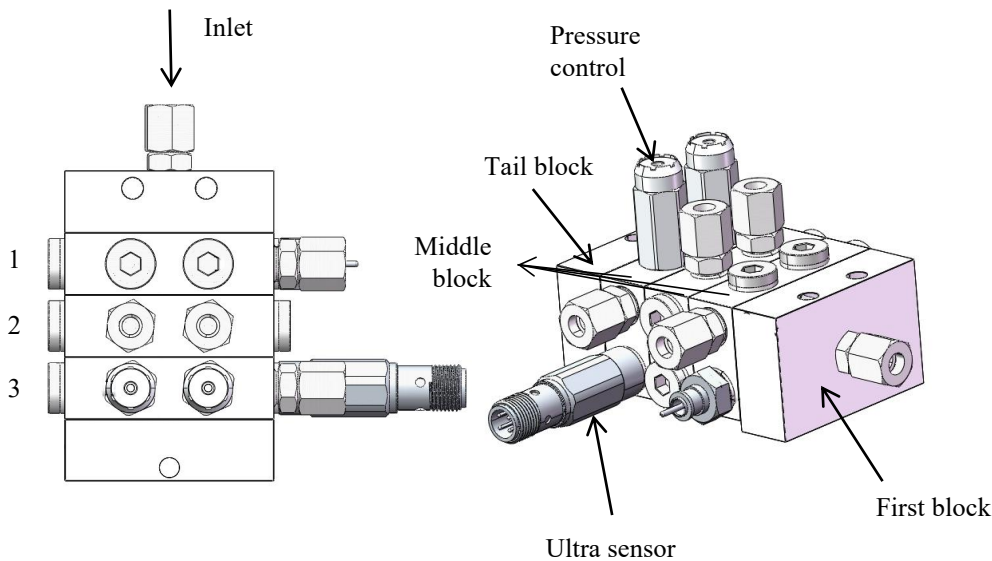
Elements specification	Discharge (for outlet) (cc/cyc)	Max. Pressure	Min. Pressure	Number of oil outlets per piece
VB-05S	0.16	30Mpa	1.4Mpa	1
VB-05T	0.08	30Mpa	1.4Mpa	2
VB-10S	0.32	30Mpa	1.4Mpa	1
VB-10T	0.16	30Mpa	1.4Mpa	2
VB-15S	0.48	30Mpa	1.4Mpa	1
VB-15T	0.24	30Mpa	1.4Mpa	2
VB-20S	0.64	30Mpa	1.4Mpa	1
VB-20T	0.32	30Mpa	1.4Mpa	2

Ordering information :

VB-

Element Number 3-10	
Inlet fitting shape X= Without inlet fitting D= Straight fitting assembly H= 90° fitting assembly	
Inlet fitting 6=Ø6 8=Ø8	
Flow rate (ml) 05= 0.08 10= 0.16 15= 0.23 20= 0.32	
Outlets T= Double outlet SL= Left single outlet SR= Right single outlet	
Visual Pin VR= Visual pin right VL= Visual pin left Ultra sensor KRR= Mounted on the right KRL= Mounted on the left	
Safety valve M10= 10Mpa Safety valve M20= 20Mpa Safety valve	
Outlet fitting S6= Ø6mm Fitting with check valve Q6= Ø6mm Push-in fitting	

Ordering instructions :



Note: To distinguish between left and right outlets, the equipment should be placed vertically, and the components of the distributor should be numbered from the top (inlet).

Flow rate (cc)	Outlets	Cycle control	Pressure control			Outlet fittings
			Type	Pressure (Mpa)	Location	
05	T Double outlet	VR Visual pin right (05 N/A)	M Safety valve	10	L Left	Q4 Ø4 Push-in straight
10	SL Single left	VL Visual pin left (05 N/A)		20	R Right	Q49 Ø4 Push-in 90°
15	SR Single right	KRR Ultra sensor right			LR Left/Right	D4 Ø4 Straight fittings
20	BL Bridge left	KRL Ultra sensor left			UL Single left upper	D49 Ø4 90° fittings
	BR Bridge right				UR Single right upper	Q6 Ø6 Push-in straight
	BLR Bridge left&right				ULR Single left&right upper	Q69 Ø6 Push-in 90°
	U Both upper					S6 Ø6 Straight fitting with check valve
	UL Single left upper					D69 Ø6 90° fittings
	UR Single right upper					

Order example: VB-5-D6 05SL S6 /10T ER S6/15T U S6/20T M20ULR S6/ 20SR S6

1

2

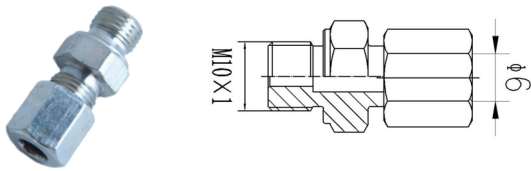
3

4

5

VB Distributor

Straight fitting with check valve



Part No	OD	Thread	Material
UF-0601277	Ø6	M10*1	Zinc plated

Outlet plug



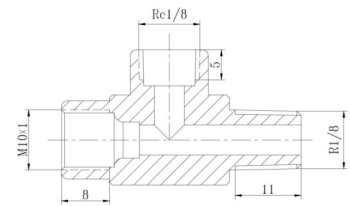
Part No	Name	Thread	Material
UF-0600093	Outlet plug	M10*1	Zinc plated
UF-0100197	Washer	M10*1	AL

Adjustable fitting



Model number	Part number	OD	Thread M	Material
0600139	UF-5B0610	Ø6	M10*1	Zinc-Nickel Plated

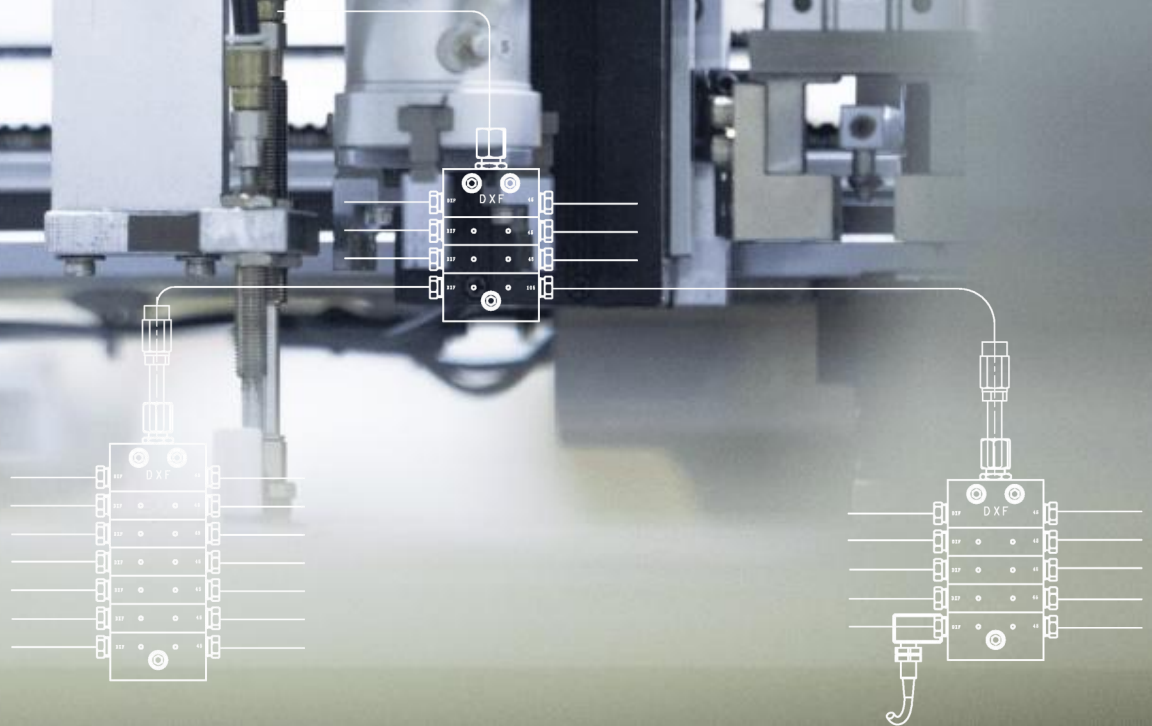
With grease nipple inlet assembly:



Model No	Part number	Thread F	Thread M
5000195	UF-3T1002	M10x1	R1/8



Ultra Flow SA



DXF Distributor

- Max. Pressure 30Mpa
- Sizes up to 24 outlets
- Modular design is flexible and easy to maintain
- The working status of distributor can be monitored

Suitable for measuring element distributor of thin oil and grease, through progressive type plunger movement type lubricant to each of the oil outlet. Appearance is compact and strong, high flexibility, suitable for a variety of applications, small form-factor, narrow space movements in space.

DXF distributor is composed of three elements, at least a first block, a middle block and an Tail block, can provide 3 to 24 lubrication point of lubrication. There are many sizes of displacement to choose from. Each oil outlet can be carried out in parallel, double oil quantity increase.

Mechanical and electronic sensors can be easily configured to provide positive assurance for successful lubrication.

UFSA's DXF progressive distributor is the ideal solution for lubrication applications that require the precise distribution of small and medium lubrication doses in a compact, rigid space.



Characteristics

- The surface of the valve body is treated with galvanized nickel, which has excellent corrosion resistance
- Compactness makes it particularly suitable for use in confined Spaces
- The working status of distributor can be monitored
- Modular design is flexible and easy to maintain
- Rugged and efficient operation in harsh environments

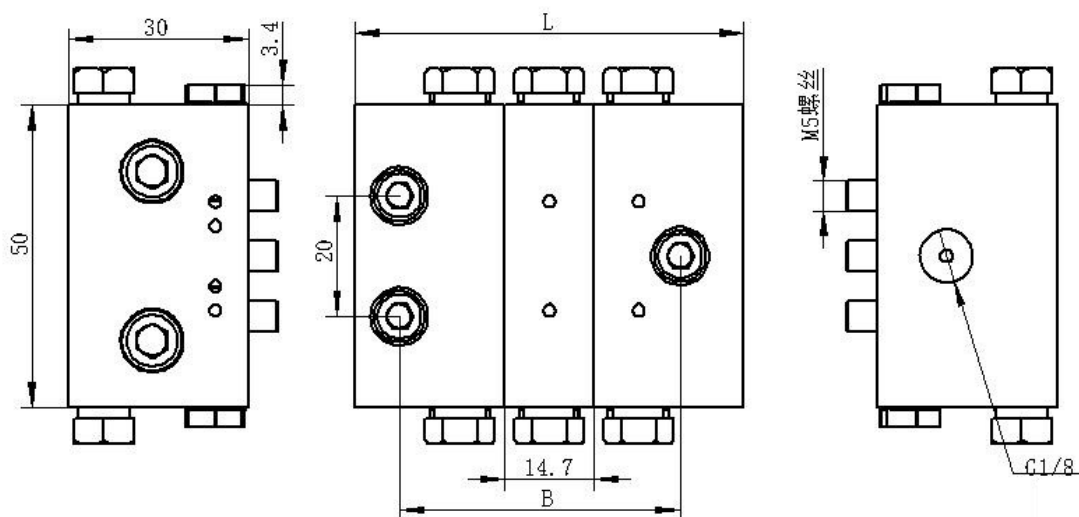
Applications

- Construction and mining
- Farm machinery
- Industrial equipment
- Construction machinery
- Automation equipment

Technical parameters

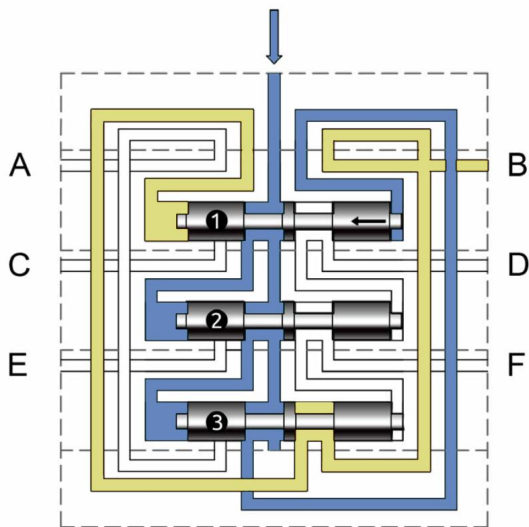
Outlets number	Max. 24
Discharge / Stroke for each outlet	0.025cc - 0.045cc - 0.075cc - 0.105cc
Max. pressure	30MPa Max.
Operating temperature	-20°C ~ +100°C
Number of cycle	Max. 300 cyc/min
Lubricants	Oil~NLGI 2#
Inlet thread	G1/8
Outlet thread	M10*1
Coating	Zinc-nickel

Dimensions:



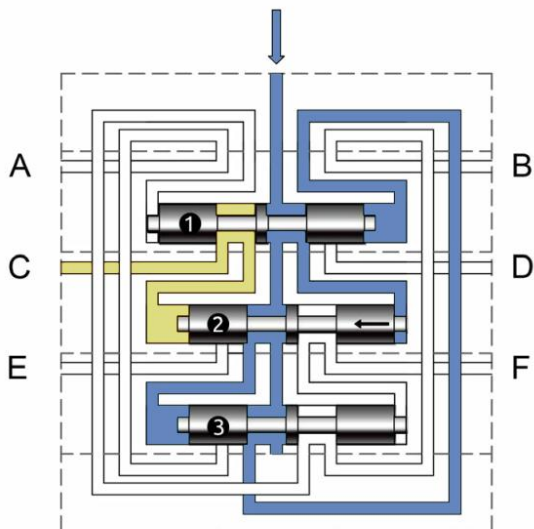
Number of work	L(mm)	B(mm)	Number of work	L(mm)	B(mm)
3	64.7	46.7	8	138.2	120.2
4	79.4	61.4	9	152.9	134.9
5	94.1	76.1	10	167.6	149.6
6	108.8	90.8	11	182.3	164.3
7	123.5	105.5	12	197	179

Operating principle



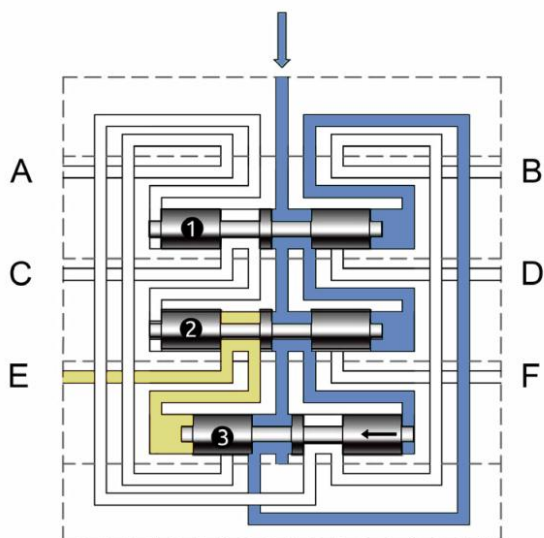
1

Lubricant flow pressure (blue) moves piston 1 to the left allowing lubricant discharge (yellow) from B.



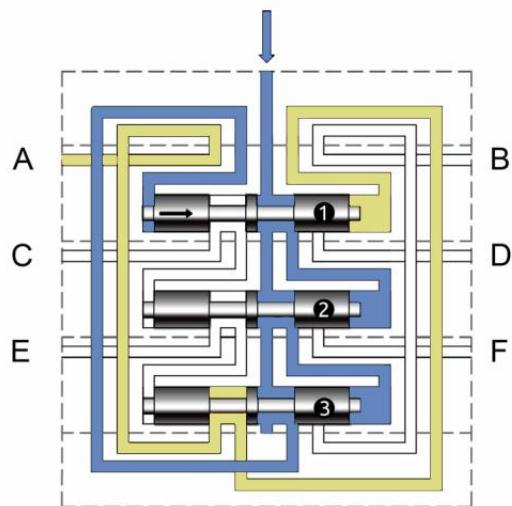
2

When piston 1 reaches its limit, lubricant flow pressure (blue) operates on piston 2. Lubricant volume (yellow) discharge from C.



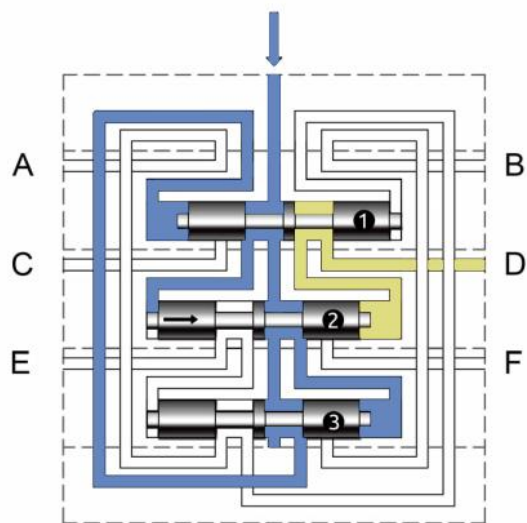
3

When piston 2 reaches its limit, lubricant flow pressure (blue) operates on piston 3. Lubricant volume (yellow) discharge from E.



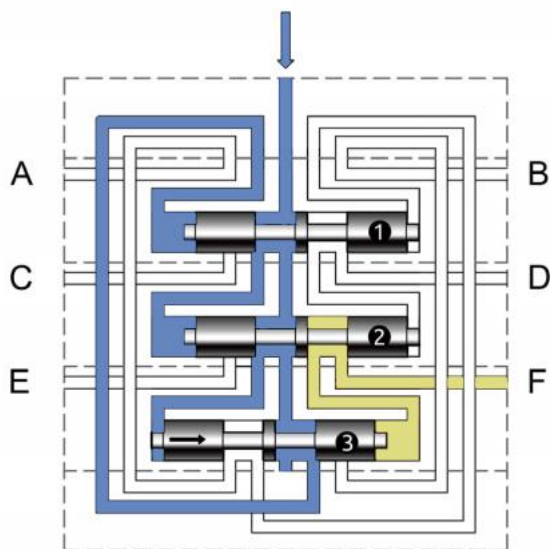
4

When piston 3 reaches its limit, lubricant flow pressure (blue) operates on piston 1. Lubricant volume (yellow) discharge from A.



5

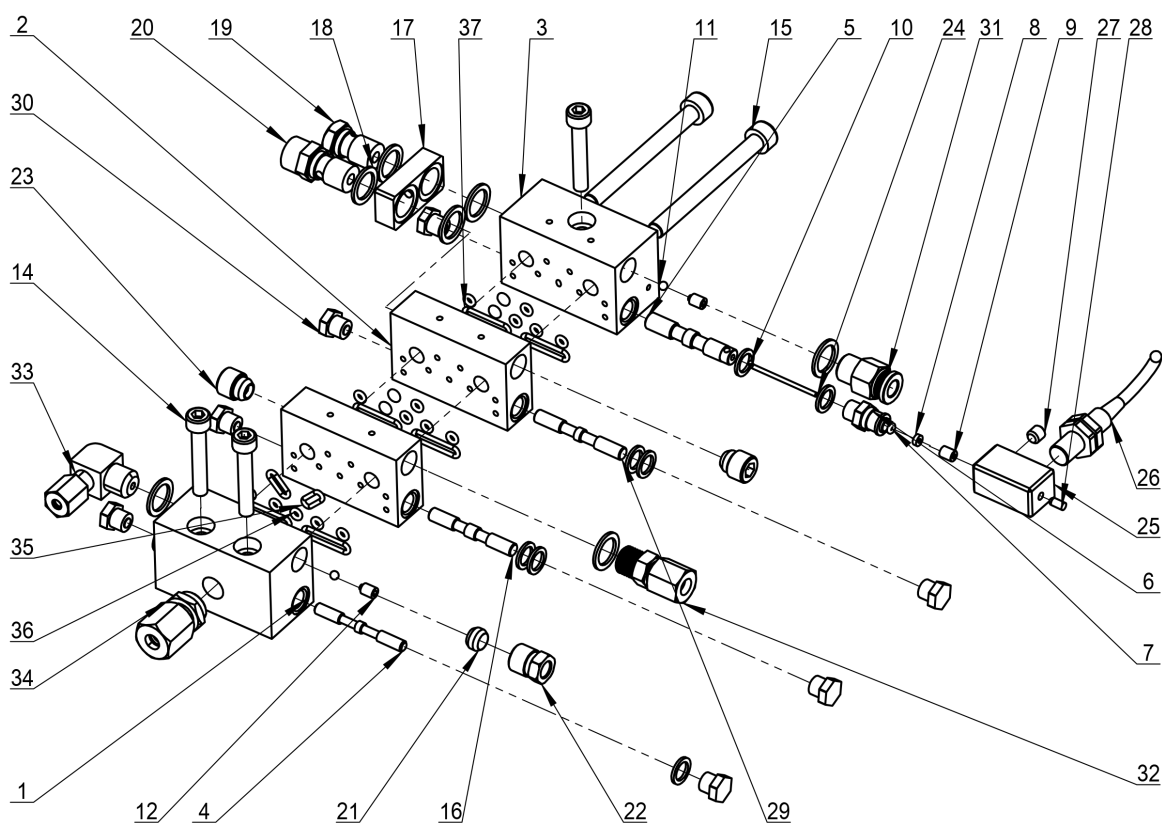
When piston 1 reaches its limit, lubricant flow pressure (blue) operates on piston 2. Lubricant volume (yellow) discharge from D.



6

When piston 2 reaches its limit, lubricant flow pressure (blue) operates on piston 3. Lubricant volume (yellow) discharge from F. The system is ready for a new cycle.

Critical component information



№	Parts designation	№	Parts designation	№	Parts designation
1	First block	11	Steel boll	25	Inductive sensor installation block
2	Middle block	12	Fastening screw	26	Inductive sensor
3	Tail block	14	Distributor mounting bolt	27	Fastening screw
4, 5 16, 29	Piston	15	Bolt	28	Locating pin
6	Piston indicating arm	17, 18 19, 20	Bridge junction	30	Plug
7, 35 36, 37	O-ring	21	Sleeve	31	Push-in straight fitting
8	Teflon pad	22	Nut	32	Straight fitting assembly
9	Copper bush	23	Hex socket plug	33	90° fitting assembly
10	Gasket	24	Indicating arm	34	Inlet fitting

Ordering information:

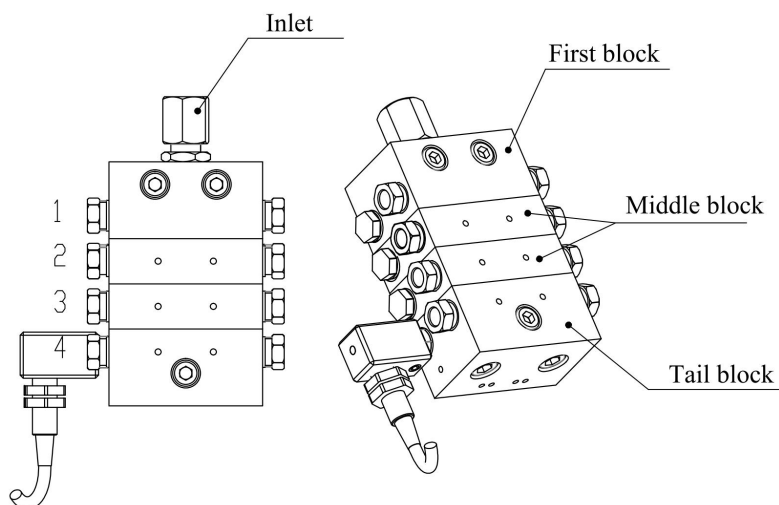
DXF -

5	D	8	
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<p>Element Number</p> <p>3-12</p> <p>(Contains first and tail blocks)</p>
<p>Inlet fitting shape</p> <p>X= Without inlet fitting</p> <p>D= Straight fitting assembly</p> <p>H= 90° fitting assembly</p>
<p>Inlet fitting</p> <p>6=Ø6</p> <p>8=Ø8</p>
<p>Flow rate (ml)</p> <p>25= 0.025</p> <p>45= 0.045</p> <p>75= 0.075</p> <p>105= 0.105</p>
<p>Visual Pin</p> <p>VR= Visual pin right (25 N/A)</p> <p>VL= Visual pin left (25 N/A)</p> <p>Inductive sensor</p> <p>ER=PNP Mounted on the right (25 N/A)</p> <p>EL=PNP Mounted on the left (25 N/A)</p>
<p>Outlet fitting</p> <p>XX= Without outlet fitting</p> <p>S6= Ø6mm Fitting with check valve</p> <p>Q6= Ø6mm Push-in Fitting</p> <p>D6= Ø6mm Ferrule fitting</p> <p>M6=Ø6mm Sleeve and nut</p>

DXF Distributor

Ordering instructions :



Note: To distinguish between left and right outlets, the equipment should be placed vertically, and the components of the distributor should be numbered from the top (inlet).

Flow rate (cc)	Outlets	Outlets Bridge	Cycle control	Outlet oil pipe diameter
25	T Double outlet	BL Bridge left	ER PNP Inductive sensor right	Q4 Ø4 Push-in fitting
45	SL Single left	BR Bridge right	EL PNP Inductive sensor left	Q6 Ø6 Push-in fitting
75	SR Single right	BLR Bridge left&right	VR Visual right side	D4 Ø4 Ferrule fitting
105		TL Tube Bridge left	VL Visual left side	D6 Ø6 Ferrule fitting
		TR Tube Bridge right		S6 Ø6 Fitting with check valve
				M4 Ø4 Sleeve and nut
				M6 Ø6 Sleeve and nut

Order example: DXF-4-D6 25 M6 / 45 ER M6/ 75 M6 / 105 M6

1 2 3 4

Standard blocks ordering information

Discharge	First block	Middle block	Tail block
0.025cc/cyc	4F025	4M025	4T025
0.045cc/cyc	4F045	4M045	4T045
0.075cc/cyc	4F075	4M075	4T075
0.105cc/cyc	4F105	4M105	4T105

With Visual Pin

Discharge	First block	Middle block	Tail block
0.045cc/cyc	4F045-V	4M045-V	4T045-V
0.075cc/cyc	4F075-V	4M075-V	4T075-V
0.105cc/cyc	4F105-V	4M105-V	4T105-V

With PNP Inductive sensor

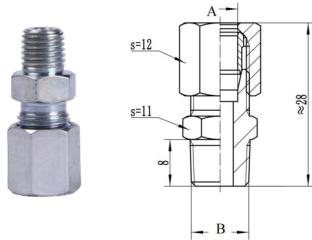
Discharge	First block	Middle block	Tail block
0.045cc/cyc	4F045-E	4M045-E	4T045-E
0.075cc/cyc	4F075-E	4M075-E	4T075-E
0.105cc/cyc	4F105-E	4M105-E	4T105-E

Tie-rods Ordering information :

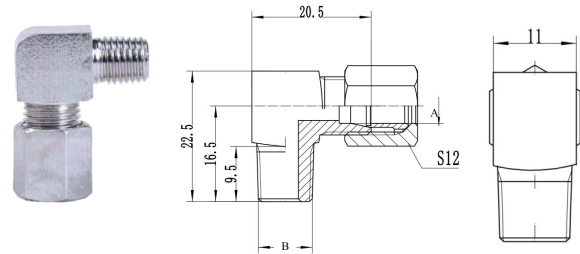
Number of work	length(mm)	Part number	Number of work	length(mm)	Part number
3	45	UF0400606	8	115	UF0400009
4	60	UF0400605	9	130	UF0400010
5	70	UF0400156	10	145	UF0400602
6	85	UF0400607	11	160	UF0400590
7	100	UF0400603	12	175	UF0400601

Inlet fittings:

Straight fitting assembly

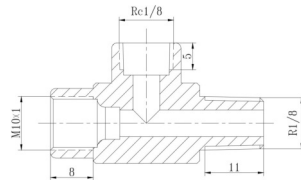


90° fitting assembly



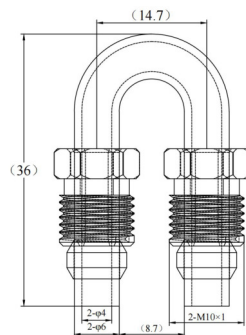
Model number	Part number	A	B	Material	Model number	Part number	A	B	Material
0601275	UF-5DM0802	Ø8	R1/8	Zinc-Nickel Plated	0601276	UF-5HM0802	Ø8	R1/8	Zinc-Nickel Plated
0601063	UF-5DM0602	Ø6	R1/8		0600933	UF-5HM0602	Ø6	R1/8	
0600167	UF-5DM0402	Ø4	R1/8	Zinc plated	0600168	UF-5HM0402	Ø4	R1/8	Zinc plated

With grease nipple inlet assembly:



Model No	Part No	Thread F	Thread M
5000195	UF-3T1002	M10x1	R1/8

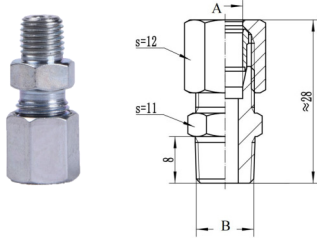
Tube Bridge Assembly



Model No	Part No	Thread	Tube
5000445	UF-2U06	M10x1	φ6

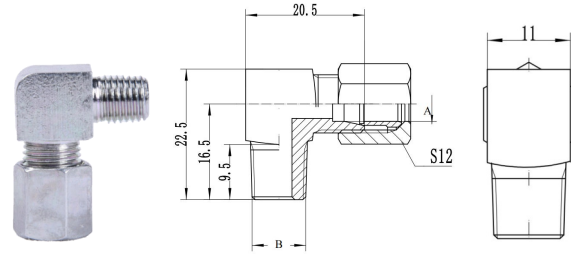
Outlet fittings:

Straight fitting connector assembly



Model No	Part No	A	B	Material
0600170	UF-5DM0410	Ø4	M10*1	Zinc plated
0600172	UF-5DM0610	Ø6	M10*1	Zinc-Nickel Plated

90° elbow assembly



Model No	Part No	A	B	Material
0600169	UF-5HM0410	Ø4	M10*1	Zinc plated
0600977	UF-5HM0610	Ø6	M10*1	Zinc-Nickel Plated

Straight fitting with check valve



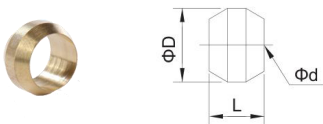
Part number	OD	Thread	Material
UF-0601284	Ø6	ZM10*1	Zinc-Nickel Plated

Outlet plug



Part number	Model number	Thread	Material
UF-0601219	5PG11	M10*1	Zinc-Nickel Plated

Sleeve



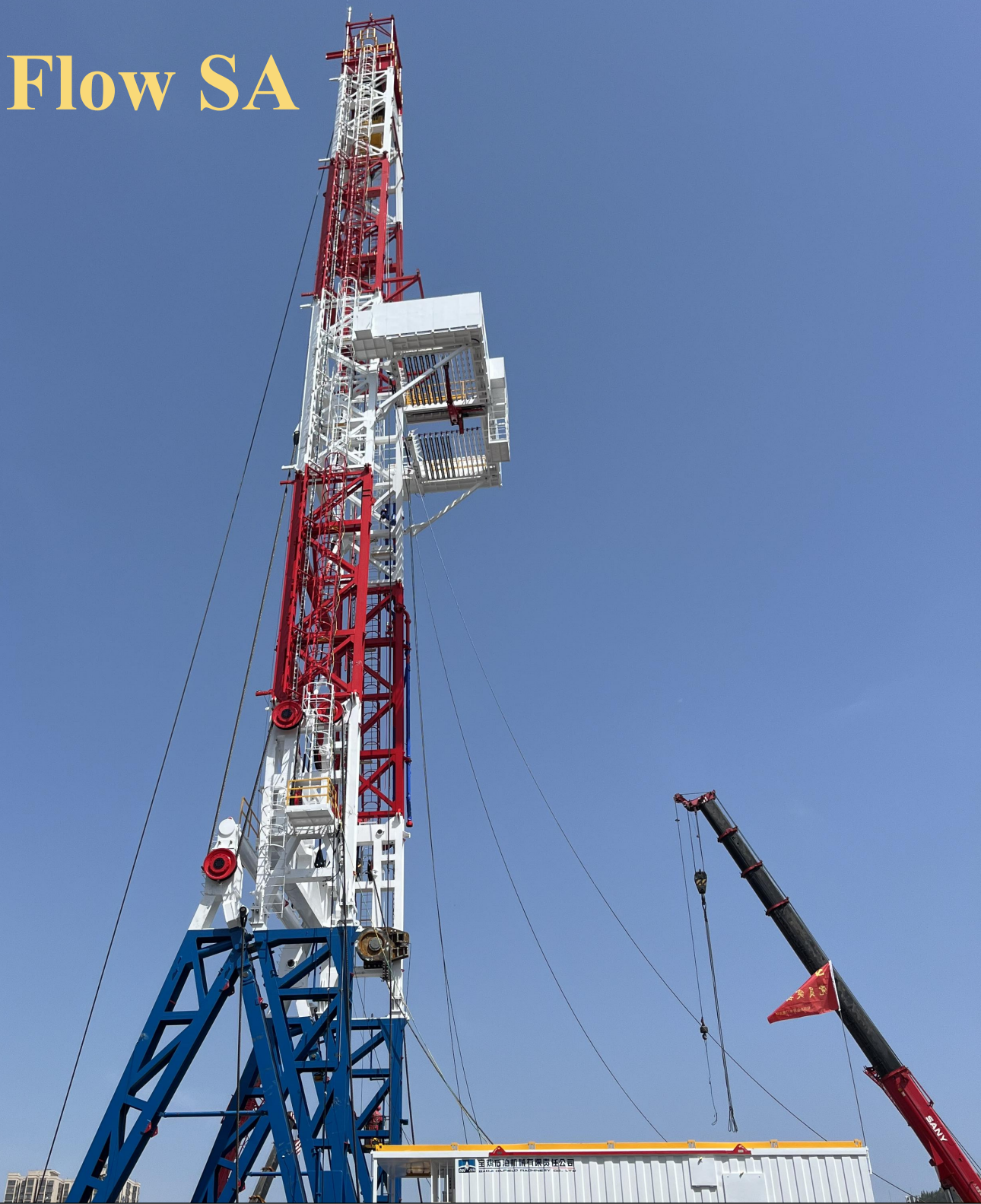
Model No	Part No		Ød	ØD	L
0600290	UF-3B06	6	6.1	8	5

Nut



Model No	Part No	Ød	Thread
0601048	UF-3C10	Ø6	M10*1

Ultra Flow SA



VSP

Distributor

- Max. Pressure 25Mpa
- Sizes up to 16 outlets
- Easy servicing as outlets are located on baseplate
- Flexible due to exchangeable metering segments

VSP modular distributor valve

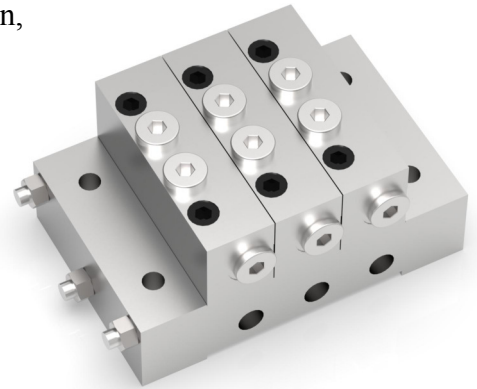
VSP modular distributor valve can ensure accurate lubrication, and is suitable for all kinds of harsh conditions, is a perfect lubrication distributor solution.

The divider consists of two main parts:

- THE BASE (consisting of a minimum of three elements)
- THE METERING VALVES (available with both a single as well as a double one)

To maximize the performance of the plant, it is crucial to use electrical monitoring elements that detect malfunctioning or system blockage.

Thanks to its modularity, the system can be easily expanded and replacement of metering elements can occur without removing the pipework, thereby guaranteeing low maintenance costs. The modularity of the dividers furthermore allows you to bundle lubrication points according to system requirements.



Characteristics

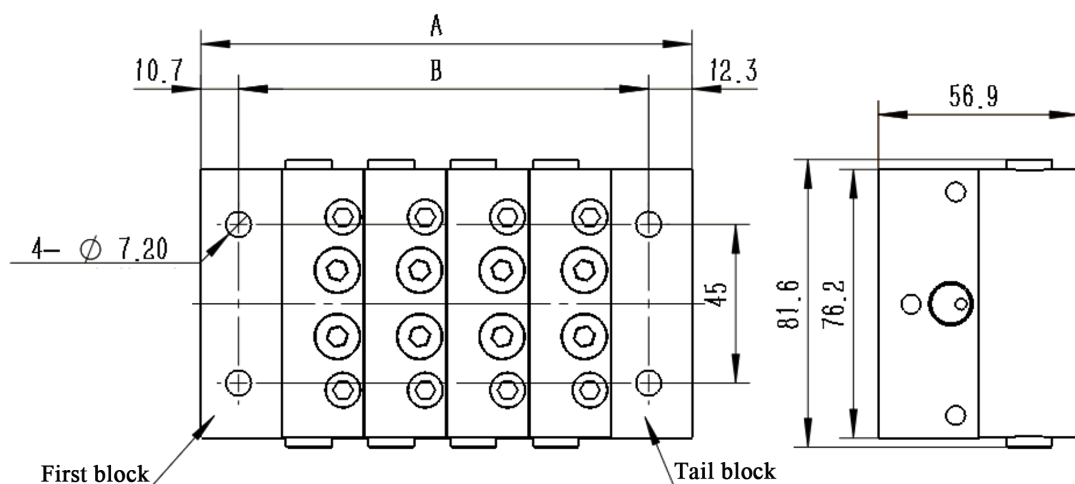
- Easy servicing as outlets are located on baseplate
- Flexible due to exchangeable metering segments
- Visual or electrical monitoring possible
- Dummy segments with no output available
- Adjustable by consolidating outlets internally or externally

Applications

- automobile, industrial equipment
- wind power
- construction machinery

Technical parameters	
Max. Pressure	241bar, 3500 psi
Discharge (for outlet)	0.08--1.31cc/cyc
Lubricants	Oil 32 CST— NLGI 2
Operating temperature	- 30°C~+150°C
Max. cycle speed with cycle indicator	60cyc/min
Number of lubricating points available	3-16
Inlet thread	G1/4
Outlet thread	G1/8

Dimensions:



Number of work	A(mm)	B(mm)	Number of work	A(mm)	B(mm)
3	116.8	91.4	6	188	160
4	127	114.3	7	210.8	185.4
5	162.6	137.2	8	233.7	208.3

Note: A and B in the above table are theoretical values, which may have errors with real objects due to the influence of cumulative assembly errors of distributors.

Ordering information:

VSP block model

Comprising an inlet, a middle block, a tail block, a connecting rod and a nut

Maximum export quantity	Number of Sections	Model		Dimensions (for reference only)	
		R Thread	G Thread	A	B
6	3	56R03	56G03	4.6in (116.8mm)	3.6in (91.4mm)
8	4	56R04	56G04	5.0in (127.0mm)	4.5in (114.3mm)
10	5	56R05	56G05	6.4in (162.6mm)	5.4in (137.2mm)
12	6	56R06	56G06	7.4in (188.0mm)	6.3in (160.0mm)
14	7	56R07	56G07	8.3in (210.8mm)	7.3in (185.4mm)
16	8	56R08	56G08	9.2in (233.7mm)	8.2in (208.3mm)

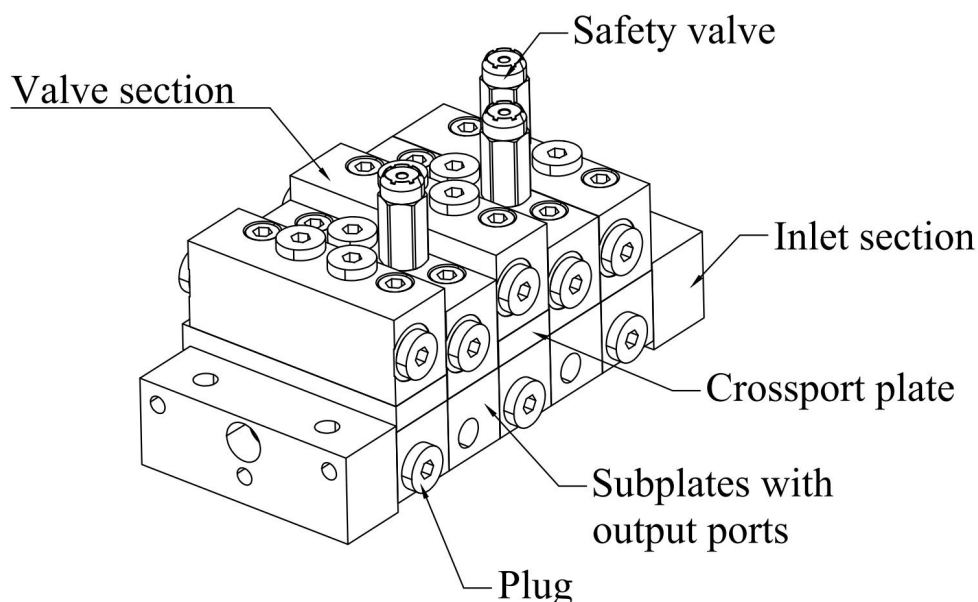
To order 316L stainless steel, please add suffix -SS to the order number

Model of VSP distributor valve

Working valve block of VSP valve (must be ordered in multiples of 5)

outlet	Description	Flow rate in ³ (cc)	Model		
			Standard valve block	With circulating pin-right	With circulating pin-left
Single	VSP-5S	0.010(0.16)	61911	Not applicable	
	VSP-10S	0.020(0.33)	61912		
	VSP-15S	0.030(0.49)	61913		
	VSP-20S	0.040(0.66)	61914	61914RD	61914LD
	VSP-25S	0.050(0.82)	61915	61915RD	61915LD
	VSP-30S	0.060(0.98)	61916	61916RD	61916LD
	VSP-35S	0.070(1.15)	61917	61917RD	61917LD
	VSP-40S	0.080(1.31)	61918	61918RD	61918LD
Twins	VSP-5T	0.005(0.08)	61919	Not applicable	
	VSP-10T	0.010(0.16)	61920		
	VSP-15T	0.015(0.26)	61921		
	VSP-20T	0.020(0.33)	61922	61922RD	61922LD
	VSP-25T	0.025(0.41)	61923	61923RD	61923LD
	VSP-30T	0.030(0.49)	61924	61924RD	61924LD
	VSP-35T	0.035(0.57)	61925	61925RD	61925LD
	VSP-40T	0.040(0.66)	61926	61926RD	61926LD

Ordering instructions :



Note: To distinguish between left and right outlets, the equipment should be placed vertically, and the components of the distributor should be numbered from the top (inlet).

Flow rate (ml)	Outlets	Cycle control	Pressure control			Outlet fittings
			Type	Pressure (Mpa)	Location	
05	T Double outlet	RD With circulating pin-right (5, 10, 15 Not applicable)	M Safety valve	20	U	Q6 Ø6 Push-in straight
10	SL Single left	LD With circulating pin-left pin-left (5, 10, 15)			UL	Q69 Ø6 Push-in 90°
15	SR Single right	URP PNP Inductive sensor Right			UR	D6 Ø6 Straight fittings
20	BL Bridge left	ULP PNP Inductive sensor Left				D69 Ø6 90° fittings
25	BR Bridge right	WR Ultra sensor right				Q8 Ø8 Push-in straight
30	BLR Bridge left&right	WL Ultra sensor left				Q89 Ø8 Push-in 90°
35						D8 Ø8 Straight fittings
40						D89 Ø8 90° fittings

VSP-3-D6 05T M20U D6 / 10SL M20UL D6/ 15T M20U D6

1

2

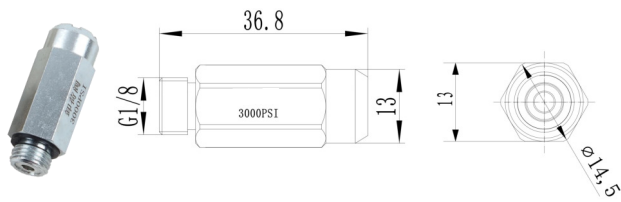
3

Ordering information:

VSP-

Element Number 3-11	
Flow rate (cc)	
<i>Single</i>	<i>Twins</i>
5S= 0.16	5T= 0.08
10S= 0.33	10T= 0.16
15S= 0.49	15T= 0.26
20S= 0.66	20T= 0.33
25S= 0.82	25T= 0.41
30S= 0.98	30T= 0.49
35S= 1.15	35T= 0.57
40S= 1.31	40T= 0.66
Working valve block outlets	
T= Twins outlets	
SL= Left single outlet	
SR= Right single outlet	
Inlet Connetor	
X= Without inlet fitting	
6=Ø6	8=Ø8
10=Ø10	12=Ø12
Outlet Connetor	
XX= Without outlet fitting	
D6= Ø6mm Ferrule fitting	
Q6= Ø6mm Push-in Fitting	
D8= Ø8mm Ferrule fitting	
Q8= Ø8mm Push-in Fitting	
Type	
XX = No settings	
Cycle Control	
RD = With circulating pin-right (5, 10, 15 N/A)	
LD = With circulating pin-left (5, 10, 15 N/A)	
Proximity sensor	
ULP= PNP Proximity sensor /Left	
URP= PNP Proximity sensor /Right	
Ultra sensor	
W= Ultra sensor	

Safety valve



Cycle indicator



Part number	Pressure	Male thread
UF-2000793	207bar/3000psi	G1/8

Model number	Part number	Male thread
0700346	UF-152365	7/16-20UNF

Outlet plug



Model number	Part number	Thread	Material
0600022	UF-5PG12	G1/8	Zinc-Nickel Plated

MD-H controller is suitable for progressive and single-line lubrication systems. It features an all-metal housing that is robust, durable, and compact in design. Equipped with a digital display, it enables quick identification of system status. The controller is easy to install, and the wiring harness can be directly connected to it.

Features

- ◆ 16A high current capacity
- ◆ All-metal housing with rugged and waterproof design, meeting the stringent IP69K protection rating
- ◆ Customizable lubrication parameters (time, pressure, cycle count, and number of devices) for precise lubrication and improved production efficiency
- ◆ User-friendly interface for easy setup and operation, reducing labor costs
- ◆ Special operation modes to save debugging and maintenance time
- ◆ Compatible with single-line lubrication systems and progressive lubrication systems

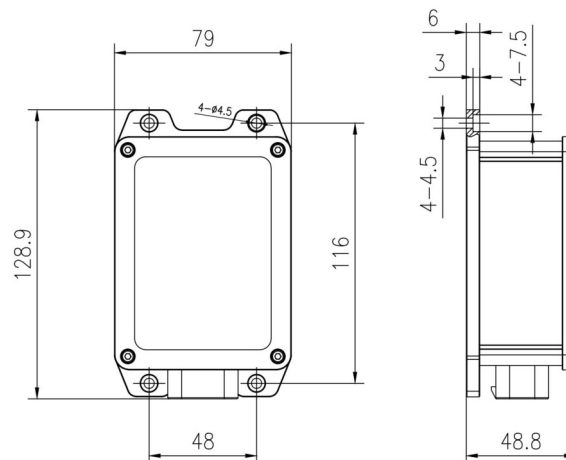


Part number: UF-5000297

Technical Parameters

Power Supply	9 - 30 VDC	Min. Switching Current (Pump)	100 mA (DC)
Controller Power	1 W	Alarm Output Voltage	Equal to Power Supply
Cycle/Pressure Signal Input	9 - 30 VDC, NO/PNP Switch	Max. Switching Voltage (Alarm)	30 VDC
Level Signal Input	9 - 30 VDC, NO/PNP Switch	Max. Switching Current (Alarm)	2A (DC)
Lubrication Pump Voltage	Equal to Power Supply	Protection Rating	IP69K
Max. Switching Voltage (Pump)	30 VDC	Maximum Humidity	90% RH (Non-Condensing)
Max. Switching Current (Pump)	16A(DC), 20A (Peak)	Operating Temperature	- 40°C 80°C

Dimensions (mm)



MC-III Controller



Part number: UF-5000097

MC-III controller is suitable for both progressive and single-line lubrication systems. It features a durable and compact housing with a small footprint, making it easy to install. The wiring harness can be directly connected to the controller.

Features

- ▲ Digital display for quick system status identification
- ▲ LED-displayed error codes for easy troubleshooting
- ▲ Audible alarm with prompt tones
- ▲ Space-efficient design, adaptable to any vehicle cabin
- ▲ Compatible with progressive and single-line lubrication systems

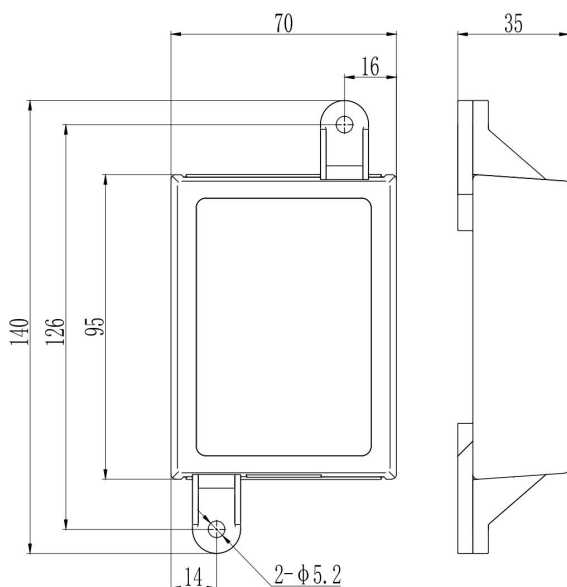
Available Inputs

- Pressure/Cycle Switch
- Low Level Switch

Available Outputs

- Pump Control Signal
- Low Level Alarm Signal
- Pressure/Cycle Alarm
- System Normal Operation Signal

Dimensions (mm)



Technical Parameters

Power Supply	9 - 30VDC
Controller Power	1W
Cycle/Pressure Signal Input	9-30 VDC, NO/PNP Switch
Level Signal Input	9-30 VDC, NO/PNP Switch
Lubrication Pump Voltage	Equal to Power Supply
Max. Switching Voltage (Pump)	30 VDC
Max. Switching Current (Pump)	7A(DC),9A(Peak)
Min. Switching Current (Pump)	100 mA (DC)
Alarm Output Voltage	Equal to Power Supply
Max. Switching Voltage (Alarm)	30 VDC
Max. Switching Current (Alarm)	2A (DC)
Protection Rating	IP54,For indoor and vehicle cabin use
Operating Temperature	-40°C to 80°C



MC-II-A controller Suitable for progressive and single-line lubrication systems. Features a durable and compact housing with digital display for quick system status identification. Easy to install, wiring harness can be directly connected to the controller.

Features

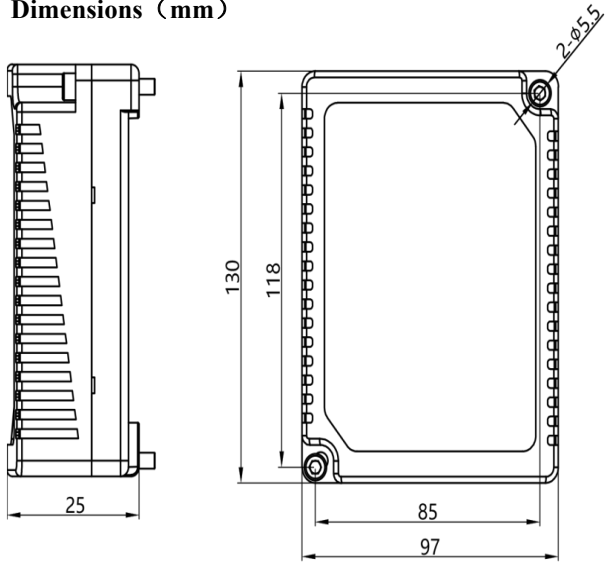
- ▲ Integrated and flexible lubrication solution
- ▲ Digital display for real-time system status monitoring
- ▲ LED-indicated error codes for easy diagnostics
- ▲ Built-in audible alarm function
- ▲ Compatible with any vehicle cabin installation space
- ▲ Applicable for both progressive and single-line lubrication systems

Part number: UF-2002119

Technical Parameters

Power Supply	9 - 30VDC
Controller Power	1W
Max. Switching Voltage (Pump)	30VDC
Lubrication Pump Voltage	Equal to Power Supply
Max. Switching Current (Pump)	7A(DC),9A(Peak)
Min. Switching Current (Pump)	100mA (DC)
Alarm Output Voltage	Equal to Power Supply
Protection Rating	IP54,For indoor and vehicle cabin use
Operating Temperature	-40°C 80°C

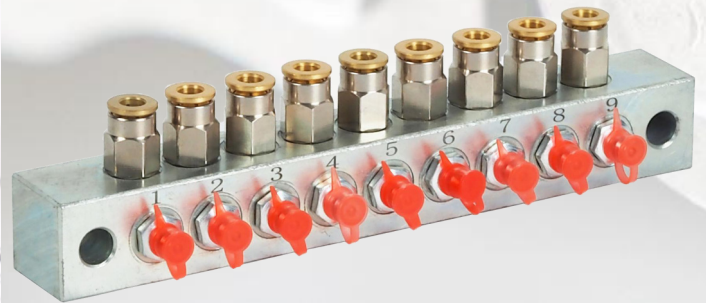
Dimensions (mm)



Ultra Flow SA

VSD

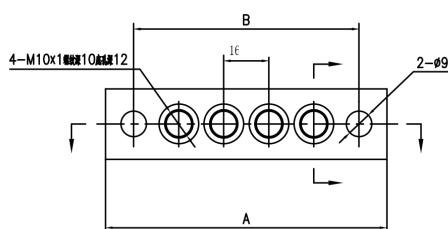
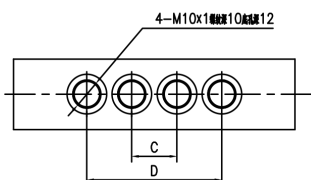
Distributor block



VSD Distributor block

VSD distributor Block

Specifications and technical parameters

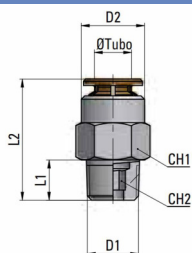


Part number	Model number	Outlet Thread	Outlets	A	B	C	D
UF-0301511	VSD-04KT	M10*1	4	100	80	16	48
UF-0301510	VSD-09KT	M10*1	9	180	128	16	48
UF-0300339	VSD-12KT	M10*1	12	228	208	16	48

Can be customized according to customer requirements non-standard VSD distribution block, can also integrate Grease nipples and Push-in fitting, Flexible pipe. Contact your sales manager for details.

Straight push-in fitting-Quick connect

Straight fitting assembly



Part number	OD	D1	D2	L1	L2	Model number	Part number	A	B	Material
UF-0600220	Ø4	M10*1.0	9	8	20	0600170	UF-5DM0410	Ø4	M10*1	Zinc plated
UF-0600830	Ø6	M10*1.0	12	8	22	0600172	UF-5DM0610	Ø6	M10*1	Zinc-Nickel Plated

Grease Nipples



Model No	Part number	Thread	Material
1300419	UF-3NP10	M10*1	Nickel plated



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A2 AUTOLUBE:

The A2 controller is a universal lubrication system controller capable of handling all common lubrication systems.

Innovative Algorithms also give new flexibility and greater control over traditional single line systems.

The built in Real Time Clock allows the unit to log a history of operations and fault conditions.

Serial communications allows the operation / history and setup to be modified / altered via cell phone using Bluetooth. By using the GSM option called 'Roamer' all conditions can be monitored via the GSM module. The user has full remote control of the panel via a dedicated portal.

AREAS OF USE:

Mining industries, Agriculture, Road Construction, Marine, Manufacturing industries, Beverage and food industries, Railways and Transport.



A2 SPECIFICATIONS

VOLTAGE:	10 Vdc TO 30Vdc
CURRENT DRAIN:	15mA Max (no load) 10mA nominal
PUMP OUTPUT:	12A Continuous, 15A for 15 sec
LAMP OUTPUT:	5A Max
SWITCHING:	Solid State Circuit Protected
FUSE:	Electronic Fuse 60A
CONNECTOR:	14 Way Molex Minifit - JR
COMMUNICATIONS:	RS232
BLUETOOTH:	LE Connection > 20M
DIMENSIONS:	95mm X 78MM X 38mm
WEIGHT:	120g
IP RATING:	IP54
TEMP RANGE:	-30° C TO 60° C
ALTITUDE OF USE:	<2000M
POLLUTION DEGREE:	PDII
RoHS COMPLIANT:	Lead free PCB
DECAL:	Lexan Membrane Keypad
EMC REGISTRATION:	TRE03128/25
EU DECLARATION (CE):	W25/02/26
BLUETOOTH:	Registered Member
WET LOCATION USE:	Not Recommended

A2 FEATURES

- Runs progressive, single line systems
- Real time clock logs dates and times of faults (6000) records
- RS232 serial port allows connection to GSM module
- Option to connect to GSM modem via GSM networks
- Bluetooth connection via A2 app available from IOS & Android
- Timing intervals from 5 seconds to 99 hours
- Cycle counting
- 10Vdc to 30Vdc operation
- Short/open circuit detection with audible warning
- External fault lamp drive with both flash or steady output
- Low level monitoring
- 2 Proximity inputs
- Inputs can accept all industry standards NPN/PNP
- Blockage Detection
- Visual and audible fault indication
- Built in E fuse
- OLED display
- Simple Lube Logic setup procedure
- Test mode allows for testing prior to commissioning
- Practical attractive housing with mounting bracket



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ROAMER:

The Roamer is an Industrial Internet of Things (IOT) module which runs on any global mobile network. Designed for use specifically with the A2 Autolube, with a Roamer connected you can access all of your lubrication data - anywhere, any-time. The Roamer uses GSM technology to connect to any available mobile network to transfer data from the A2 Autolube to a user-friendly website. With the Roamer connected to an A2 Autolube you can:

- See the current status of your Lubrication System.
- View and Download History Logs for your Lubrication System.
- Change settings on your A2 Autolube remotely via the website.
- View system totals including lifetime, 24hr, 7 days and 30 days.
- Add installations and asset details to better track your Lubrication System.
- Upgrade your A2 Firmware to the latest firmware over the cloud either manually or automatically when available.

AREAS OF USE:

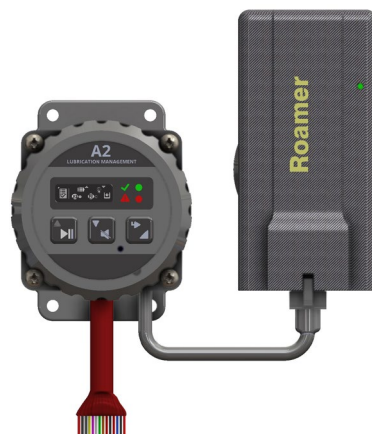
Mining industries, Agriculture, Road Construction, Marine, Manufacturing industries, Beverage and food industries, Railways and Transport.

ROAMER SPECIFICATIONS

- VOLTAGE: 9 Vdc TO 33Vdc
- CONNECTOR: 4 way data port
- COMMUNICATIONS: RS232
- IOT MODULE: Uses GSM
- DIMENSIONS: 121mm X 60MM X 16mm
- WEIGHT: 70g
- IP RATING: IP54
- TEMP RANGE: -30° C TO 60° C
- ALTITUDE OF USE: <2000M
- POLLUTION DEGREE: PDII
- RoHS COMPLIANT: Lead free PCD
- EMC REGISTRATION: TRE03128/25
- EU DECLARATION (CE): W25/02/26
- BLUETOOTH: Registered Member
- WET LOCATION USE: Not Recommended

ROAMER FEATURES

- See current status of lubrication system.
- View and download history logs for your lube system
- Change settings remotely anywhere anytime via website
- View system totals including lifetime, 24Hrs, 7 days and 30 days
- Add installations and asset details to track your lubrication system
- Upgrade your A2 firmware to the latest over the cloud
- Practical attractive housing with mounting bracket



A2 Autolubes			
DEVICE	ROAMER #	SITE	LAST STATUS
#01039 A2 Jack	#00101	F&O Office	✓ Faults cleared 02/08/2024 10:52
#00016 Pierre Testbox	#00775	35 Zander Estate	⚡ Power on 02/08/2024 10:50

A2 Autolube		A2 Logs (UTC+02:00)		Setup	
<div><div>A2 Serial #01039 A2 Jack</div><div>Roamer Serial #00101</div><div>Current Status: RUNNING - Faults cleared</div><div>Latched Faults: -</div><div>State Since: 02-08-2024 (12:52)</div><div>Last Updated: 02-08-2024 (12:52)</div><div>Refresh Status</div><div>The status is refreshed by contacting the A2 via the Roamer using GSM/GPRS. Depending on the signal to the Roamer this may take some time to refresh.</div></div> <div><div>System Totals</div><div>Lifetime 24 hrs 7 Days 30 Days</div><div>42394 ISM</div></div>		<div><div>Date & Time</div><div>02-08-2024 (12:52) Faults cleared</div><div>02-08-2024 (12:52) Forced Run</div><div>02-08-2024 (12:52) Motor S/C</div><div>02-08-2024 (12:52) Forced Run</div><div>29-07-2024 (09:50) Faults cleared</div><div>29-07-2024 (09:59) Power on</div><div>24-07-2024 (17:04) Power off</div><div>24-07-2024 (16:25) Forced Run</div><div>24-07-2024 (16:25) Motor O/C</div><div>24-07-2024 (16:25) Forced Run</div></div>		<div><div>Mode: PLS - Time</div><div>Pause Time: 00:30:00</div><div>Run Time: 00:00:10</div><div>Use P1: Yes</div><div>P1 Cycles: -</div><div>P1 Timeout: 00:01:30</div><div>Use P2: -</div><div>P2 Cycles: -</div><div>P2 Timeout: -</div><div>Use Level: -</div><div>Over Pressure: 0.84</div><div>Update Settings</div></div>	



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AUTOLUBE:

The Autolube controller is a universal lubrication system controller capable of handling all common lubrication systems.

Innovative Algorithms also give new flexibility and greater control over traditional single line systems.

The built in Real Time Clock allows the unit to log a history of operations and fault conditions.

Serial communications allows the operation / history and setup to be modified / altered via THE ADS-2 Data Shuttle. Up to 100 uploads / machines can be recorded.

AREAS OF USE:

Mining industries, Agriculture, Road Construction, Marine, Manufacturing industries, Beverage and food industries, Railways and Transport.



AUTOLUBE SPECIFICATIONS

- VOLTAGE: 10 Vdc TO 30Vdc
- CURRENT DRAIN: 300mA Max (no load)
- PUMP OUTPUT: 7A RMS. Max
- LAMP OUTPUT: 3A Max
- SWITCHING: Solid State Circuit Protected
- FUSE: 8A Fast Blow
- CONNECTOR: 14 Way Molex Minifit - JR
- COMMUNICATIONS: RS232
- DIMENSIONS: 70mm X 145MM X 38mm
- WEIGHT: 300g
- IP RATING: IP54
- TEMP RANGE: -30° C TO 60° C
- ALTITUDE OF USE: <2000M
- POLLUTION DEGREE: PDII
- RoHS COMPLIANT: Lead free PCB
- DECAL: Lexan Membrane Keypad
- WET LOCATION USE: Not Recommended

AUTOLUBE FEATURES

- Runs progressive, single line systems and Dual Line Systems
- Real time clock logs dates and times of faults (80) records
- RS232 serial port allows connection to ADS-2 Data Shuttle
- Timing intervals from 5 seconds to 24 hours
- Cycle counting
- 10Vdc to 30Vdc operation
- Short/open circuit detection with audible warning
- External fault lamp drive with both flash or steady output
- Low level monitoring
- 2 Proximity inputs
- Inputs can accept all industry standards NPN/PNP
- Visual and audible fault indication
- LED display
- Non volatile memory
- Blown fuse Indicator
- Reservoir level monitoring
- Simple Lube Logic setup procedure
- Test mode allows for testing prior to commissioning
- Practical attractive housing with mounting bracket



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ADS-3 DATA SHUTTLE:

The ADS-3 is a compact Data Module for collecting log files from Autolube controllers on site for later download to a PC for analysis. Up to 256 files are stored by serial number on a first in first out basis.

Pass through mode allows connection between both PC and autolube to Data Shuttle simultaneously to communicate directly with the autolube and to enable LIVE mode.

The Setup button is used to enter and exit Setup Mode without the need to power-cycle the Autolube controller.

The unit is powered via the USB or Autolube connections.

AREAS OF USE:

Mining industries, Agriculture, Road Construction, Marine, Manufacturing industries, Beverage and food industries, Railways and Transport.



ADS-3 SPECIFICATIONS

- VOLTAGE: 10 Vdc TO 30Vdc
- CONNECTOR: 4 way data port
- COMMUNICATIONS: RS232
- DIMENSIONS: 114mm X 36MM X 26mm
- WEIGHT: 50g
- IP RATING: IP54
- TEMP RANGE: -30° C TO 60° C
- ALTITUDE OF USE: <2000M
- POLLUTION DEGREE: PDII
- ROHS COMPLIANT: Lead free PCB
- DECAL: Lexan Membrane Keypad
- EU DECLARATION (CE): W25/02/26
- WET LOCATION USE: Not Recommended

ADS-3 FEATURES

- Stores up to 256 files
- Setup mode button
- Setup mode lock and unlock buttons
- Dual colour LED for status feedback
- Micro USB
- Powered via Autolube or USB

7. Select a range of entries to see a summary in the blue summary bar.

Fig 7.

	22-Apr-19	9:47 PM	2% (~0 h 0 m)	
	22-Apr-19	9:47 PM	100% (~0 h 0 m)	
	22-Apr-19	8:56 PM	100% (~0 h 51 m)	
	22-Apr-19	8:56 PM	100% (~0 h 0 m)	
	22-Apr-19	8:43 PM	100% (~0 h 12 m)	
SELECTION :			22 Apr 2019 20:56 to 22 Apr 2019 21:47	(0 h 51 m)
POWER ON :			0 h 51 m	
FAULT :			0 h 51 m	



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G2 PULSE:

The G2 PULSE controller is specifically designed to use on hydraulic driven systems incorporating a pump as well as a solenoid valve and pressure switch. The controller can be programmed for a pause cycle of 1 sec to 50 hours. Pump run pressure timeout range of 1 to 50 minutes. The solenoid cycle times of 1 second to 50 seconds. The built in Real Time Clock allows the unit to log a history of operations and fault conditions.

AREAS OF USE:

Mining industries, Agriculture, Road Construction, Marine, Manufacturing industries, Beverage and food industries, Railways and Transport.



G2 PULSE SPECIFICATIONS

- VOLTAGE: 10 Vdc TO 30Vdc
- CURRENT DRAIN: 80mA Max (no load)
- PUMP OUTPUT: 7A RMS. Max (Inductive load)
- LAMP OUTPUT: 4A Max (resistive load only)
- SWITCHING: 25A automotive relays
- FUSE: 8A Fast Blow
- CONNECTOR: 12 Way Molex Minifit - JR
- DIMENSIONS: 62mm X 94MM X 38mm
- WEIGHT: 150g
- IP RATING: IP54
- TEMP RANGE: -30° C TO 60° C
- ALTITUDE OF USE: <2000M
- POLLUTION DEGREE: PDII
- RoHS COMPLIANT: Lead free PCB
- DECAL: Lexan Membrane Keypad
- WET LOCATION USE: Not Recommended
- VIBRATION: 0G, 10 to 55Hz 1.5mm double amplitude

G2 PULSE FEATURES

- Runs progressive line systems using hydraulic pumps
- Real time clock logs dates and times of faults (80) records
- Timing intervals from 1 second to 50 hours
- Cycle counting
- Simple programming (No jumpers or esoteric indicators)
- Short/open circuit detection with audible warning
- External fault lamp drive with both flash or steady output
- Low level monitoring
- Visual and audible fault indication
- Simple connection (pre-made looms available on request)W
- Non volatile memory
- Reservoir level monitoring
- Simple Lube Logic setup procedure
- Test mode allows for testing prior to commissioning
- Practical attractive housing with mounting bracket



ULTRA FLOW SA

Unit 15 Montague Park
24 Stella Road Montague Gardens
Cape Town South Africa, 7441

Tel: +27215517497
Email: sales@ultra-flow.com
URL: www.ultraflowsa.com

G1 CONTROLLER:

The G1 controller is a universal lubrication system controller capable of handling all common lubrication systems pertaining to progressive systems.

Innovative Algorithms also give new flexibility and greater control over traditional single line systems.

The built in Real Time Clock allows the unit to log a history of operations and fault conditions.

AREAS OF USE:

Mining industries, Agriculture, Road Construction, Marine, Manufacturing industries, Beverage and food industries, Railways and Transport.



G1 SPECIFICATIONS

- VOLTAGE: 10 Vdc TO 30Vdc
- CURRENT DRAIN: 80mA Max (no load)
- PUMP OUTPUT: 7A RMS. Max
- LAMP OUTPUT: 4A Max
- SWITCHING: 25A automotive relay
- FUSE: 8A Fast Blow
- CONNECTOR: 10 Way Molex Minifit - JR
- DIMENSIONS: 62mm X 94MM X 38mm
- WEIGHT: 150g
- IP RATING: IP54
- TEMP RANGE: -30° C TO 60° C
- VIBRATION: 10G, 10 to 55Hz
- ALTITUDE OF USE: <2000M
- POLLUTION DEGREE: PDII
- RoHS COMPLIANT: Lead free PCB
- DECAL: Lexan Membrane Keypad
- WET LOCATION USE: Not Recommended

G1 FEATURES

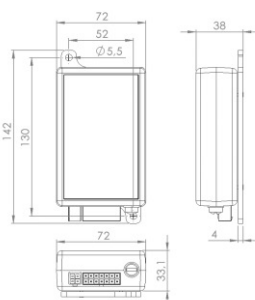
- Runs progressive,
- Real time clock
- Timing intervals from 1 seconds to 50 hours
- Cycle counting
- External fault lamp drive with both flash or steady output
- Low level monitoring
- Visual and audible fault indication
- Non volatile memory
- Simple Lube Logic setup procedure
- Test mode allows for testing prior to commissioning
- Practical attractive housing with mounting bracket

Controllers & wiring harness

SPECIFICATIONS

Voltage: 10V to 30V DC
 Current Drain: 300 ma Max (no load)
 Pump Output: 7 A rms. Max
 Lamp Output: 3 A Max
 Switching: Solid-state short circuit protected
 FUSE: 8 Amp fast blow
 Connector: 14 way Molex Minifit-JR
 Communications: RS232
 Dimensions: 72 mm X 142 mm X 38 mm (including mounting bracket)
 Weight: 300 g Protection IP54

The AUTOLUBE is a universal lubrication system controller capable of handling all common lubrication systems from the simplest run - pause timer through progressive, single and dual line systems. Innovative algorithms also give new flexibility and greater control over traditional single and dual line systems.

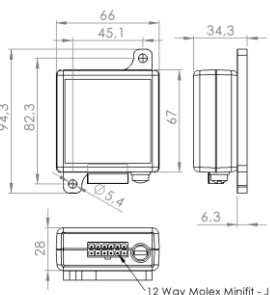


Item Code / UF Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
AUTOLUBE CONTROLLER PROGRESSIVE/DUAL/SINGLE LINE	Alternative Part Number	AUTOLUBE LUBRICATION CONTROLLER	DIMENSION	DIMENSION					
UF-AI-24	85307	AUTOLUBE LUBRICATION CONTROLLER			YES	10			

SPECIFICATIONS

Voltage: 10V to 30V DC
 Current Drain: 80 ma Max (no load)
 Pump Output: 7 A rms. Max (inductive load only)
 Lamp Output: 4 A Max (resistive load only)
 Switching: 25 A automotive relays with spark suppression
 Dimensions: 66 mm X 94 mm X 35 mm
 Weight: 150 g
 Vibration: 10 G, 10 to 55 Hz 1.5 mm double amplitude
 Fuse: 8 Amp fast blow
 Connector: Molex Minifit-JR 10 pin 8 Amp contact rating

The G2 Pulse Lubrication Controller is specifically designed for use on systems incorporating a pump as well as a solenoid valve and pressure switch. The unit can be programmed for pause cycles from 1 second to 50 hours, pump run pressure timeout range of 1 to 50 minutes and solenoid valve cycle times of 1 to 50 seconds.

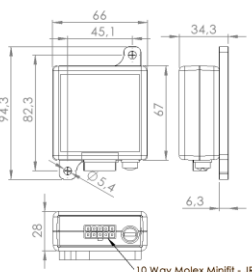


Item Code / UF Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
G2 PULSE CONTROLLER FOR HYDRAULIC APPLICATIONS	Alternative Part Number	G2 PULSE CONTROLLER	DIMENSION	DIMENSION					
UF-G2-24	NA	G2 PULSE CONTROLLER			YES	10			

SPECIFICATIONS

Voltage: 10V to 30V DC
 Current Drain: 80 ma Max (no load)
 Pump Output: 7 A rms. Max (inductive load only)
 Lamp Output: 4 A Max (resistive load only)
 Switching: 25 A automotive relays with spark suppression
 Dimensions: 66 mm X 94 mm X 35 mm
 Weight: 150 g
 Vibration: 10 G, 10 to 55 Hz 1.5 mm double amplitude
 Fuse: 8 Amp fast blow
 Connector: Molex Minifit-JR 10 pin 8 Amp contact rating

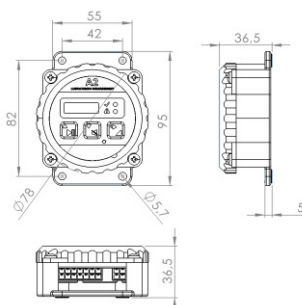
The G1 Lubrication controller from ULTRA-FLOW is the result of years of experience in the lubrication industry. Designed by lubrication experts the system gives users the functionality they require without the complications. From the practical housing and wiring to the simple clear programming, the G1 sets a new world standard in the lubrication industry. The G1 is capable of handling all common lubrication systems from the simplest run - pause timer through progressive lines systems



Item Code / UF Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price List	UFES
G1 LUBRICATION CONTROLLER PROGRESSIVE/SINGLE LINE	Alternative Part Number	G1 LUBRICATION CONTROLLER	DIMENSION	DIMENSION					
UF-G1-24	NA	G1 LUBRICATION CONTROLLER			YES	10			

SPECIFICATIONS

VOLTAGE: 10.5Vdc to 30Vdc
 CURRENT DRAIN: 15mA Max (No Load) 10mA Nominal
 PUMP OUTPUT: 12A Continuous, 15A for 15 Sec, 20A for 6 Sec
 HIGH CURRENT OUTPUT: 50A Continuous
 LAMP OUTPUT: 5A Max
 SWITCHING: Solid State Short Circuit Protection
 FUSE: Electronic Fuse (80A)
 CONNECTION: 14 Way Molex Minifit - JR
 COMMUNICATIONS: RS232
 BLUE TOOTH: LE Connection (Low Energy Interface)
 RANGE: > 20M
 ROAMER: RS232 Out GSM Module
 COMPLIANCE: RoHS Directive 2002/95/EC (Lead Free)
 DIMENSIONS: 95mm X 78mm X 38mm (including mounting bracket)
 WEIGHT: 120g
 PROTECTION: IP54
 TEMPERATURE RANGE: -30° C to 60° C



Item Code / UF Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
A2 CONTROLLER 10VDC TO 30VDC	Alternative Part Number	A2 LUBRICATION CONTROLLER	DIMENSION	DIMENSION					
UF-A2-24	NA	A2 LUBRICATION CONTROLLER			YES	10			

Data Shuttle & Wiring harness

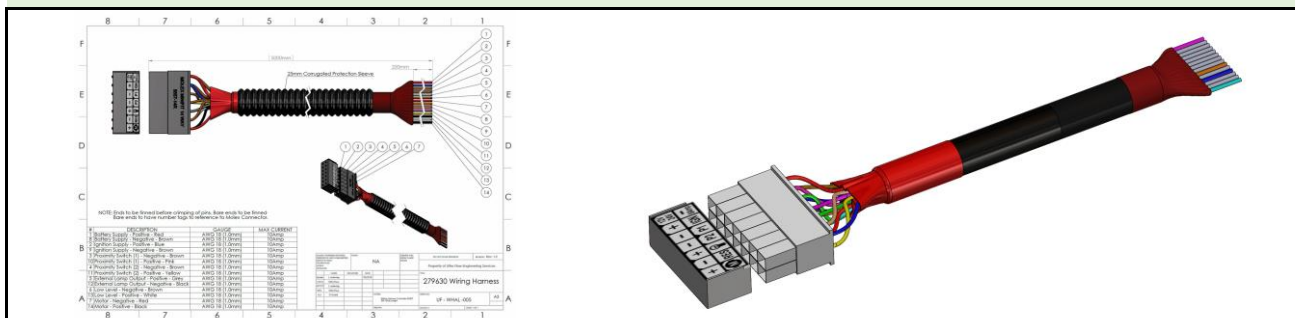
SPECIFICATIONS

Storage for 256 files
Setup Mode button
Setup Mode Lock and Unlock buttons
Dual colour LED for status feedback
Micro USB Powered via Autolube or USB

The ADS-3 is a compact Data Module for collecting log files from Autolube controllers on site for later download to a PC for analysis. Up to 256 files are stored by serial number on a first in first out basis.



Item Code / UF Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req			
DATA SHUTTLE	Alternative Part Number	DATA SHUTTLE FOR AUTOLUBE RECORDS AND EVENTS	DIMENSION	DIMENSION					
ADS-3	85307-DS	DATA SHUTTLE FOR AUTOLUBE CONTROLLER			YES				



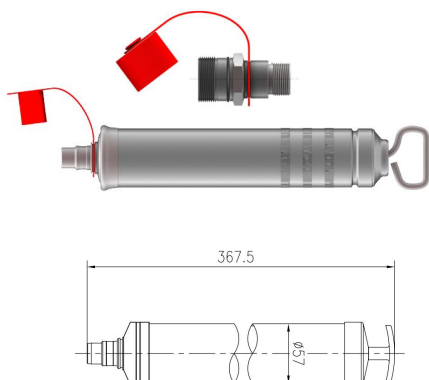
Item Code / UF Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture				
AUTOLUBE, G1, AND G2 PULSE HARNESS		CONTROLLER LOOMS (HARNESS)	WIRE GAUGE	CONNECTOR					
UF-AL-5M-14WAY	279630	AUTOLUBE CONTROLLER LOOM 5M	AWG18	MOLEX MINIFIT 14	YES				
UF-AL-8M-14WAY	NA	AUTOLUBE CONTROLLER LOOM 8M	AWG18	MOLEX MINIFIT 14	YES				
UF-AL-10M-14WAY	NA	AUTOLUBE CONTROLLER LOOM 10M	AWG18	MOLEX MINIFIT 14	YES				
UF-AL1-5M-14WAY	NA	AUTOLUBE CONTROLLER LOOM 15M	AWG18	MOLEX MINIFIT 14	YES				
UF-G1-5M-10WAY	NA	G1 CONTROLLER LOOM 5M	AWG18	MOLEX MINIFIT 10	YES				
UF-G1-8M-10WAY	NA	G1 CONTROLLER LOOM 8M	AWG18	MOLEX MINIFIT 10	YES				
UF-G1-10M-10WAY	NA	G1 CONTROLLER LOOM 10M	AWG18	MOLEX MINIFIT 10	YES				
UF-G1-15M-10WAY	NA	G1 CONTROLLER LOOM 15M	AWG18	MOLEX MINIFIT 10	YES				
UF-G2-5M-12WAY	NA	G2 PULSE CONTROLLER LOOM 5M	AWG18	MOLEX MINIFIT 12	YES				
UF-G2-8M-12WAY	NA	G2 PULSE CONTROLLER LOOM 8M	AWG18	MOLEX MINIFIT 12	YES				
UF-G2-10M-12WAY	NA	G2 PULSE CONTROLLER LOOM 10M	AWG18	MOLEX MINIFIT 12	YES				
UF-G2-15M-12WAY	NA	G2 PULSE CONTROLLER LOOM 15M	AWG18	MOLEX MINIFIT 12	YES				



ENGINEERED SOLUTIONS
FOR PRECISE LUBRICATION



Follower plate and grease gun kits



Description	Part number	Grease fitting
Grease Gun	UF-MG500	-
Grease fitting	UF-MG500-A	Grease fitting without check valve
Grease fitting	UF-MG500-C	Grease fitting with check valve



Description	Part number	Oil drum
Follower Plate	UF-95660C	16KG

Electric lubrication pump accessories

Pump outlet assembly

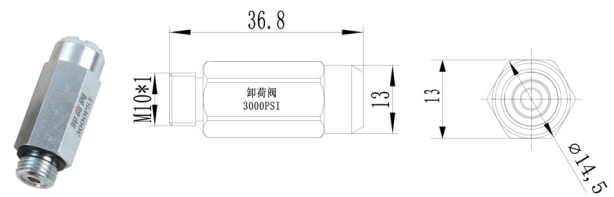


Grease filling quick connector



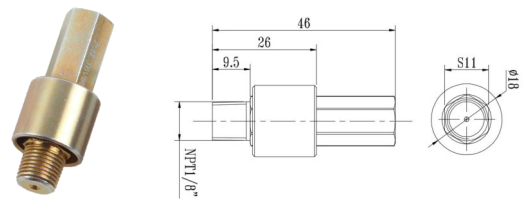
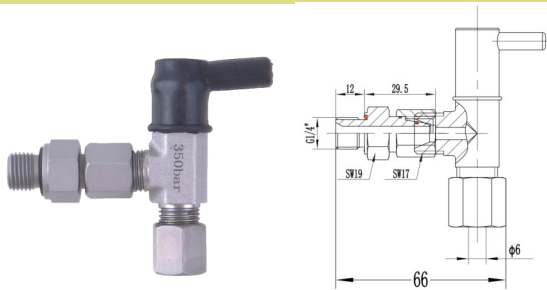
Part number	Description	Pressure	OD	Part number	Description	Thread
UF-80533PG	With pressure gauge	40MPa	6mm	UF-80220	Male connector	G1/4
UF-80533PG-8			8mm	UF-80221	Female connector	G1/4
UF-80533	Without pressure gauge		6mm			
UF-80533-8			8mm			

Safety valve



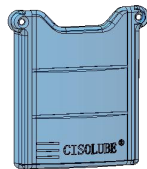
Part number	Pressure	Male thread
UF-5FI05	207bar/3000psi	M10*1

Safety valve



Part number	Description	Male thread
UF-5FI07	275bar/4000psi	NPT1/8

Mounting bracket



Description	Part number	Type
Mounting bracket	UF-90236	GTS

Button with green lamp



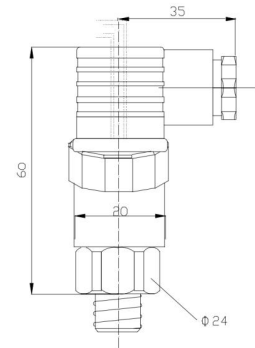
Description	Part number
12V	UF-90212
24V	UF-90224

Cartridge



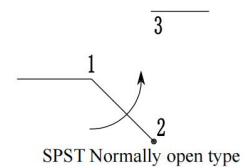
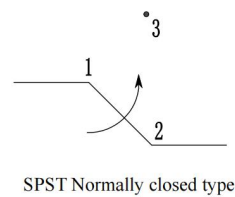
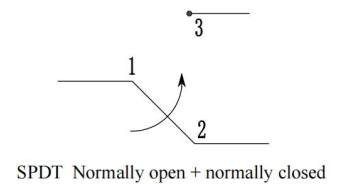
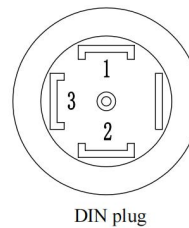
Description	Part number	Reservoir
Cartridge	UFCSL-J100	700CC
	UFCSL-C100	700CC

Pressure switch

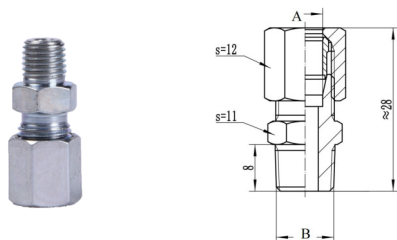


Description	Part number
Adjustable Type	UF-91346

Wiring diagram

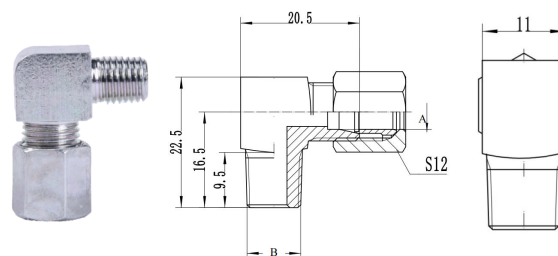


Straight Connector LL series



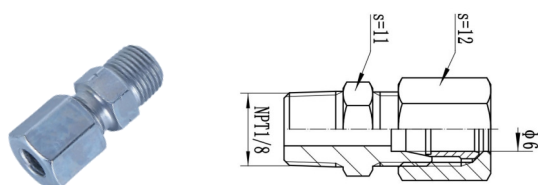
Part number	OD	A	Material
UF-106-004	Ø6	R1/8 Bspt	Carbon steel, galvanized nickel
UF-106-003	Ø6	ZM10*1	
UF-106-002	Ø6	ZM8*1	
UF-106-001	Ø6	ZM6*1	
UF-104-004	Ø4	R1/8 Bspt	
UF-104-003	Ø4	ZM10*1	
UF-104-002	Ø4	ZM8*1	
UF-104-001	Ø4	ZM6*1	

Elbow Connector LL series



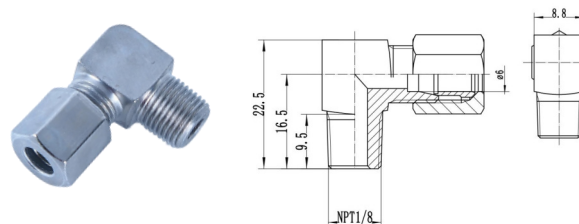
Part number	OD	Thread	Material
UF-106-104	Ø6	R1/8 Bspt	Carbon steel, galvanized nickel
UF-106-103	Ø6	M10*1	
UF-106-102	Ø6	M8*1	
UF-106-101	Ø6	M6*1	
UF-104-104	Ø4	R1/8 Bspt	
UF-104-103	Ø4	M10*1	
UF-104-102	Ø4	M8*1	
UF-104-101	Ø4	M6*1	

Straight connector LL series NPT



Part number	OD	Thread	Material
UF-5PM0602	Ø6	NPT1/8	Carbon steel, galvanized nickel

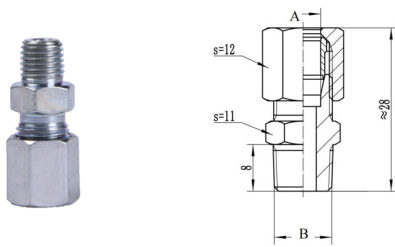
Elbow connector LL series NPT



Part number	OD	Thread	Material
UF-5NM0602	Ø6	NPT1/8	Carbon steel, galvanized nickel

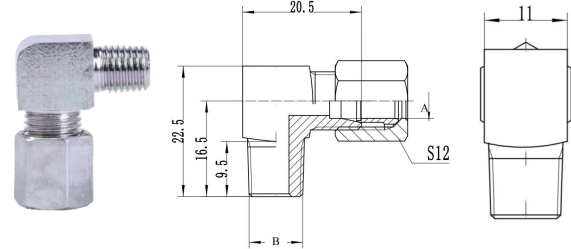
Fittings & Accessories

Straight Connector LL series SS



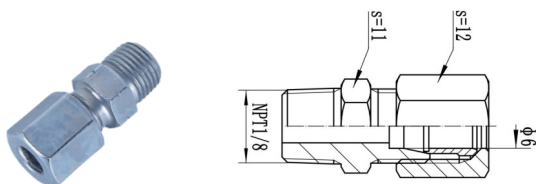
Part number	OD	A	Material
UF-106-004-VA	Ø6	R1/8 Bspt	Stainless Steel
UF-106-003-VA	Ø6	ZM10*1	
UF-106-002-VA	Ø6	ZM8*1	
UF-106-001-VA	Ø6	ZM6*1	
UF-104-004-VA	Ø4	R1/8 Bspt	
UF-104-003-VA	Ø4	ZM10*1	
UF-104-002-VA	Ø4	ZM8*1	
UF-104-001-VA	Ø4	ZM6*1	

Elbow Connector LL series SS



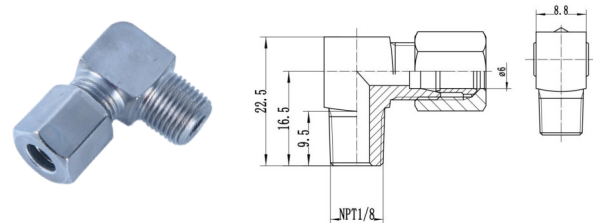
Part number	OD	Thread	Material
UFL-106-104-VA	Ø6	R1/8 Bspt	Stainless Steel
UFL-106-103-VA	Ø6	M10*1	
UFL-106-102-VA	Ø6	M8*1	
UFL-106-101-VA	Ø6	M6*1	
UFL-104-104-VA	Ø4	R1/8 Bspt	
UFL-104-103-VA	Ø4	M10*1	
UFL-104-102-VA	Ø4	M8*1	
UFL-104-101-VA	Ø4	M6*1	

Straight connector LL series NPT - SS



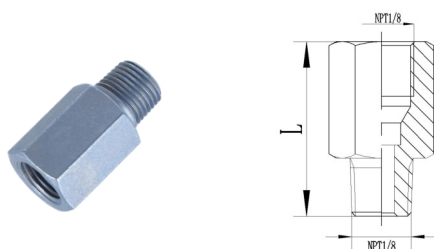
Part number	OD	Thread	Material
UF-5PM0602-VA	Ø6	NPT1/8	Stainless Steel

Elbow connector LL series NPT - SS



Part number	OD	Thread	Material
UF-5NM0602-VA	Ø6	NPT1/8	Stainless Steel

Straight extensions NPT



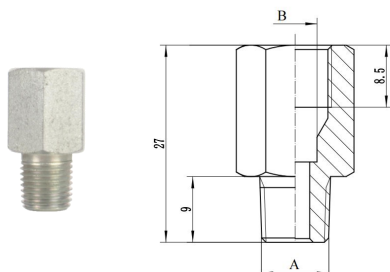
Part number	Thread	Thread	Material	L
UF-5GN02	NPT1/8	NPT1/8	Carbon steel, galvanized nickel	27
UF-5G0202	NPT1/8	NPT1/8		19

Straight GE adaptor



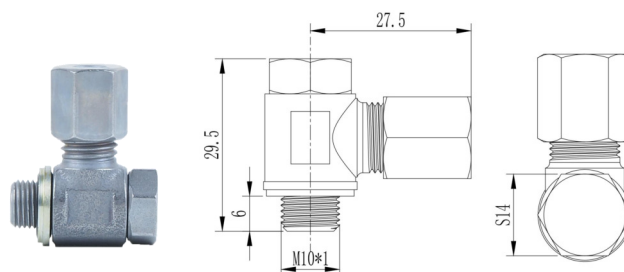
Part number	OD	Thread F	Material
UF-5SF0610	Ø6	M10*1	Carbon steel, galvanized nickel

Straight extensions



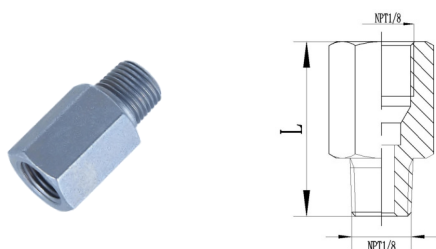
Part number	Thread M	Thread F	Material
UF-5G0210	R1/8 Bspt	M10*1	Carbon steel, galvanized nickel
UF-5G0808	M8*1	M8*1	
UF-5G0404	R1/4 Bspt	R1/4 Bspt	
UF-100-142	M10*1	M10*1	

Banjo connector



Part number	OD	Thread M
UF-106-123	Ø6	M10*1

Straight extensions NPT - SS



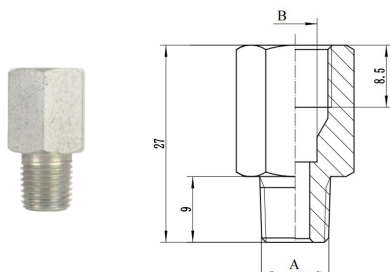
Part number	Thread	Thread	Material	L
UF-5GN02-VA	NPT1/8	NPT1/8	Stainless Steel	27
UF-5G0202-VA	NPT1/8	NPT1/8		19

Straight GE adaptor - SS



Part number	OD	Thread F	Material
UF-5SF0610-VA	Ø6	M10*1	Stainless Steel

Straight extensions - SS



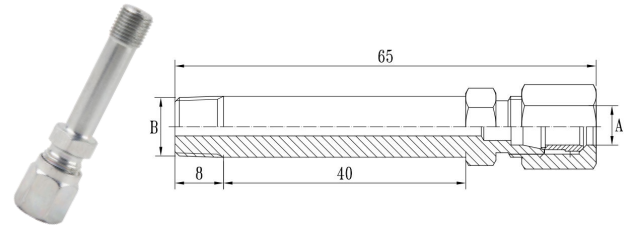
Part number	Thread M	Thread F	Material
UF-5G0210-VA	R1/8 Bspt	M10*1	Stainless Steel
UF-5G0808-VA	M8*1	M8*1	
UF-5G0404-VA	R1/4 Bspt	R1/4 Bspt	
UF-5G1010-VA	M10*1	M10*1	

Fittings & Accessories

BANJO Extension

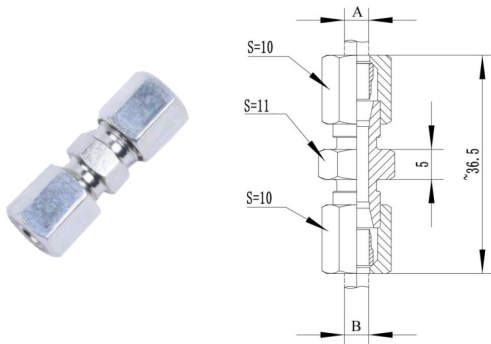


Extension fitting assembly



Part number	OD	Thread M	Material
UF-5C0602	Ø6	R1/8	Zinc Color-plated
UF-5C0610	Ø6	M10*1	

Line Connectors



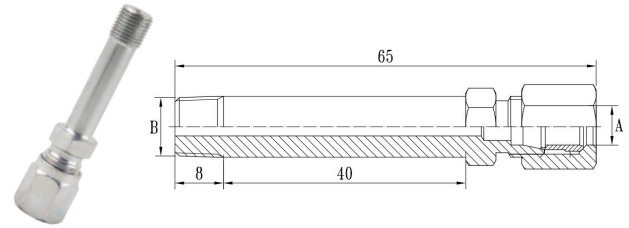
Part number	A	B	Material
UF-5KM0602	Ø6	R1/8	Carbon steel, galvanized nickel
UF-5KM0610	Ø6	M10*1	
UF-5KM0608	Ø6	M8*1	
UF-5KM0606	Ø6	M6*1	
UF-5KM0402	Ø4	R1/8	
UF-5KM0410	Ø4	M10*1	
UF-5KM0408	Ø4	M8*1	
UF-5KM0406	Ø4	M6*1	

Part number	A	B	Material
UF-104-000	Ø4	Ø4	Zinc plated
UF-106-000	Ø6	Ø6	
UF-108-000	Ø8	Ø8	
UF-110-000	Ø10	Ø10	

BANJO Extension - SS

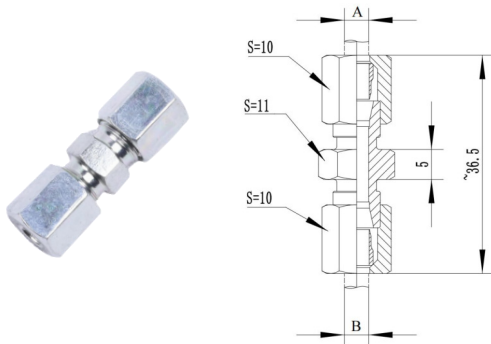


Extension fitting assembly - SS



Part number	OD	Thread M	Material
UF-5C0602-VA	Ø6	R1/8	Stainless Steel
UF-5C0610-VA	Ø6	M10*1	

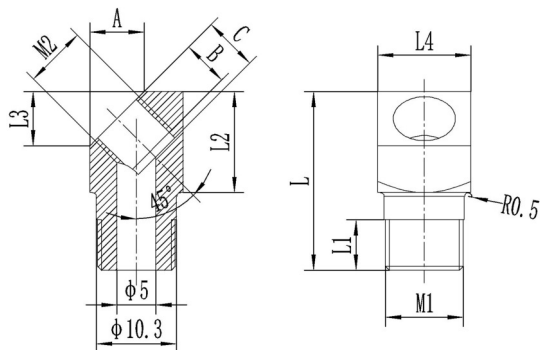
Line Connectors - SS



Part number	A	B	Material
UF-5KM0602-VA	Ø6	R1/8	Stainless Steel
UF-5KM0610-VA	Ø6	M10*1	
UF-5KM0608-VA	Ø6	M8*1	
UF-5KM0606-VA	Ø6	M6*1	
UF-5KM0402-VA	Ø4	R1/8	
UF-5KM0410-VA	Ø4	M10*1	
UF-5KM0408-VA	Ø4	M8*1	
UF-5KM0406-VA	Ø4	M6*1	

Part number	A	B	Material
UF-104-000-VA	Ø4	Ø4	Stainless Steel
UF-106-000-VA	Ø6	Ø6	
UF-108-000-VA	Ø8	Ø8	
UF-110-000-VA	Ø10	Ø10	

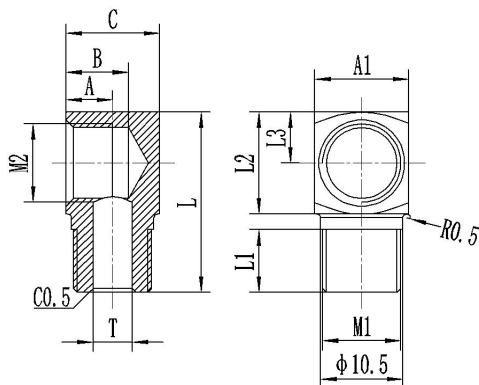
Elbow Connector 45°



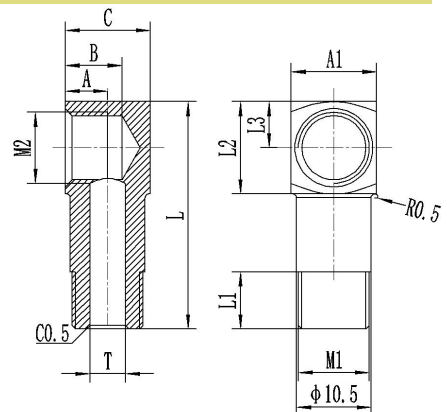
Part number	M1	M2	L	L1	L2	L3	L4	A	B	C
UF-100-822	ZM8*1	M8*1	23	6.5	13	7	12	7	6	7
UF-5EM0410	ZM10*1	M8*1	23	6.5	13	7	12	7	6	7
UF-100-833	ZM10*1	M10*1	23	6.5	13	7	12	7	6	7
UF-100-844	ZG1/8	ZG1/8	23	6.5	13	7	12	7	6	7
UF-100-855	ZG1/4	ZG1/4	33	6.5	18	7	12	7	6	7

Elbow Connector 90°

9GM10



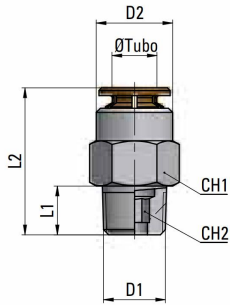
9GM10-Z



Part number	M1	M2	L	L1	L2	L3	A	B	C	A1
UF-100-711	ZM8*1	M8*1	23	8	13	6.5	6	8	12	12
UF-9GM1008	ZM10*1	M8*1	23	8	13	6.5	6	8	12	12
UF-100-733	ZM10*1	M10*1	23	8	13	6.5	6	8	12	12
UF-9GM10-Z	ZM10*1	M10*1	32	8	13	6.5	6	8	12	12
UF-100-744	ZG1/8	ZG1/8	23	8	13	6.5	6	8	12	12
UF-100-755	ZG1/4	ZG1/4	33	8	18	6.5	6	8	12	17

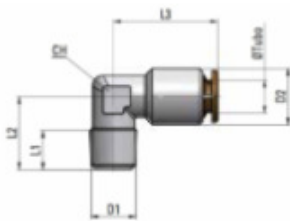
Fittings & Accessories

Straight Male Push Lock Connector - 80 Bar (Plated Brass)



Part number	OD	D1	D2	L1	L2
UF-104-054	Ø4	R1/8	9	7.5	18.5
UF-104-051	Ø4	M6*1.0	9	8	23
UF-104-052	Ø4	M8*1.0	9	8	20
UF-104-053	Ø4	M10*1.0	9	8	20
UF-106-054	Ø6	R1/8	12	7.5	21.5
UF-106-051	Ø6	M6*1.0	12	8	25.5
UF-106-052	Ø6	M8*1.0	12	8	25.5
UF-106-053	Ø6	M10*1.0	12	8	22

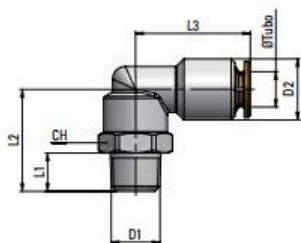
Push Lock Elbow - 80 Bar (Plated Brass)



Part number	OD	D1	D2	L1	L2
UF-104-114	Ø4	R1/8	9	7.5	15.5
UF-104-111	Ø4	M6*1.0	9	8	17
UF-104-112	Ø4	M8*1.0	9	8	17
UF-104-113	Ø4	M10*1.0	9	8	18
UF-106-114	Ø6	R1/8	12	7.5	15.5
UF-106-111	Ø6	M6*1.0	12	8	17
UF-106-112	Ø6	M8*1.0	12	8	17
UF-106-113	Ø6	M10*1.0	12	8	18

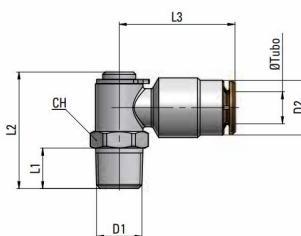
Fittings & Accessories

Push Lock Rotary Elbow - 60 Bar (Plated Brass)



Part number	OD	D1	D2	L1	L2
UF-MP150418	Ø4	R1/8"	9	7.5	20
UF-MP1504M6	Ø4	M6*1.0	9	8	20.5
UF-MP1504M8	Ø4	M8*1.0	9	8	20.5
UF-MP1504M10	Ø4	M10*1.0	9	8	20.5
UF-MP150618	Ø6	R1/8"	12	7.5	20
UF-MP1506M6	Ø6	M6*1.0	12	8	21.5
UF-MP1506M8	Ø6	M8*1.0	12	8	21.5
UF-MP1506M10	Ø6	M10*1.0	12	8	21.5

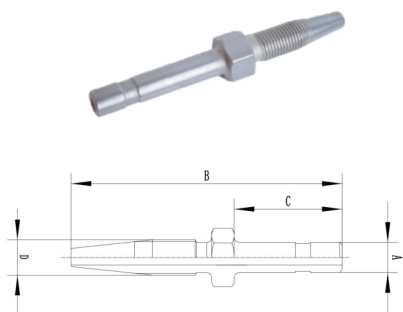
Push Lock Rotary Elbow - 60 Bar (Plated Brass)



Part number	OD	D1	D2	L1	L2
UF-HP180418	Ø4	R1/8"	9.5	8.5	22
UF-HP1804M6-1	Ø4	M6*0.75	9.5	6	22
UF-HP1804M6	Ø4	M6*1	9.5	8	22
UF-HP1804M8	Ø4	M8*1	9.5	8	22
UF-HP1804M10	Ø4	M10*1	9.5	8	22
UF-HP180618	Ø6	R1/8"	11.5	8.5	24
UF-HP180614	Ø6	R1/4"	11.5	11	24
UF-HP1806M6	Ø6	M6*1	11.5	8	24
UF-HP1806M8	Ø6	M8*1	11.5	8	24
UF-HP1806M10	Ø6	M10*1	11.5	8	24

6mm Hose Stud Straight - Carbon Steel

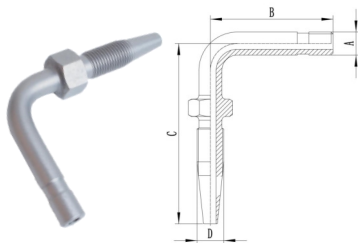
M7 for 8.4mm hose
M10 for 12mm hose



Part number	A	B	C	D	Material
UF-K049 (Short)	Ø6	49	18	M7*0.75	Carbon steel, galvanized nickel
UF-K051 (Long)	Ø6	64	30	M7*0.75	
UF-K054-Groove	Ø6	54	22	M7*0.75	
UF-K053-Groove	Ø6	61	30	M7*0.75	

6mm Hose Stud 90° Carbon Steel

M7 for 8.4mm hose
M10 for 12mm hose



Part number	A	B	C	D	Material
UF-K151 - Groove	Ø6	28	45	M7*0.75	Carbon steel, galvanized nickel
UF-K152 - Groove	Ø6	25	45	M7*0.75	
UF-K149 (Short)	Ø6	21	45	M7*0.75	
UF-K152 (Long)	Ø6	33	45	M7*0.75	

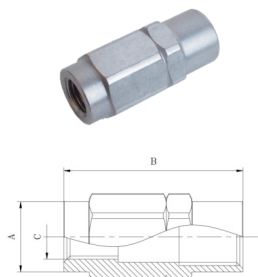
6mm Hose Stud 45° Carbon Steel



Part number	OD	B	C	D	Material
UF-K-057	Ø6	30	57	M7*0.75	Carbon steel, galvanized nickel

Threaded sleeve Carbon Steel

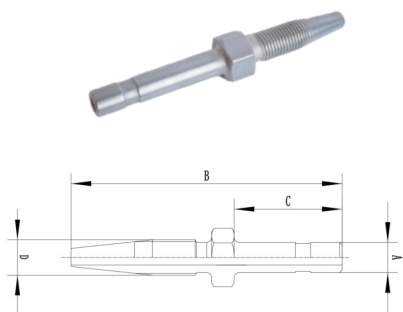
M7 for 8.4mm hose
M10 for 12mm hose



Part number	OD	A	B	C	Material
UF-K-050	Ø6/8	SW12	28	M7*0.75	Carbon steel, galvanized nickel
UF-K-060	Ø6/8	SW17	36	M10*1	

6mm Hose Stud Straight - Stainless Steel

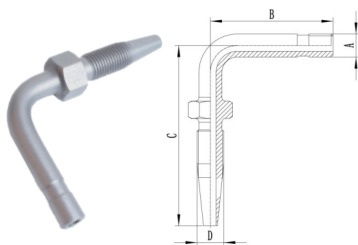
M7 for 8.4mm hose
M10 for 12mm hose



Part number	A	B	C	D	Material
UF-K049-VA(Short)	Ø6	49	18	M7*0.75	Stainless Steel
UF-K051-VA (Long)	Ø6	64	30	M7*0.75	
UF-K054-VA-Groove	Ø6	54	22	M10*1	
UF-K053-VA-Groove	Ø8	61	30	M10*1	

6mm Hose Stud 90° Stainless Steel

M7 for 8.4mm hose
M10 for 12mm hose



Part number	A	B	C	D	Material
UF-K151-VA - Groove	Ø6	28	45	M7*0.75	Stainless Steel
UF-K152-VA - Groove	Ø6	25	45	M7*0.75	
UF-K149-VA(Short)	Ø6	21	45	M7*0.75	
UF-K152-VA(Long)	Ø8	33	45	M7*0.75	

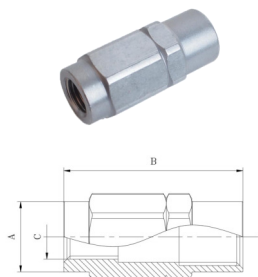
6mm Hose Stud 45° Stainless Steel



Part number	OD	B	C	D	Material
UF-K057-VA	Ø6	30	57	M7*0.75	Stainless Steel

Threaded sleeve Stainless Steel

M7 for 8.4mm hose
M10 for 12mm hose



Part number	OD	A	B	C	Material
UF-K050-VA	Ø6	Ø11	28	M7*0.75	Stainless Steel
UF-K060-VA	Ø8	Ø14	28	M10*1	

Coupling Nuts Carbon Steel - Galvanized Nickel



Ferrule



Part number	Thread	TUBE O.D.	MPa
UF-104-200	M8*1	Ø4 (SW10)	Super light series LL
UF-106-200	M10*1	Ø6(SW12)	
UF-106-200L	M12*1.5	Ø6(SW14)	Light series L
UF-108-200	M14*1.5	Ø8(SW14)	
UF-108-200-L	M16*1.5	Ø8(SW17)	
UF-110-200-L	M18*1.5	Ø10(SW19)	

Part number	TUBE O.D.	MPa
UF-104-210-LL	Ø4	Super light series LL
UF-106-210-LL	Ø6	
UF106-210L	Ø6	Light series L
UF-108-210-LL	Ø8	
UF-108-210-L	Ø8	
UF-110-210-L2	Ø10	

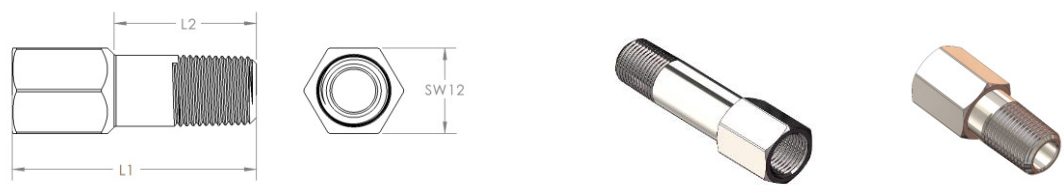
Coupling Nuts - Stainless Steel



Part number	Thread	TUBE O.D.	MPa
UF-104-200 - VA	M8*1	Ø4	Super light series LL
UF-106-200- VA	M10*1	Ø6	
UF-106-200L- VA	M12*1.5	Ø6	Light series L
UF-108-200- VA	M14*1.5	Ø8	
UF-110-200L- VA	M16*1.5	Ø10	

Extensions

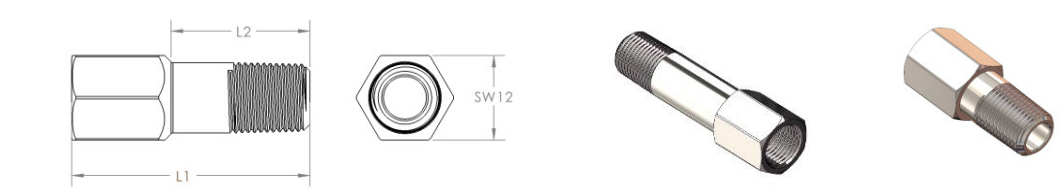
Zinc-nickel, Cr-6-free



NPT THREADS AVAILABLE ON REQUEST

Item Code / UF Code	Alternative Part Number	Description	Dim Ref 1	Dim Ref 2	Manufacture	Pressure		
ADAPTORS EXTENSION CONNECTORS MILD STEEL		EXTENSIONS MILD STEEL	REFERENCE 1	REFERENCE 2				
UF-004-025	NA	EXTENSION 1/8BSP(F)-1/8BSP(M) MILD STEEL	L1=25MM	L2=11MM	YES	400BAR		
UF-004-030	NA	EXTENSION 1/8BSP(F)-1/8BSP(M) MILD STEEL	L1=30MM	L2=16MM	YES	400BAR		
UF-004-035	NA	EXTENSION 1/8BSP(F)-1/8BSP(M) MILD STEEL	L1=35MM	L2=21MM	YES	400BAR		
UF-004-040	NA	EXTENSION 1/8BSP(F)-1/8BSP(M) MILD STEEL	L1=40MM	L2=26MM	YES	400BAR		
UF-004-045	NA	EXTENSION 1/8BSP(F)-1/8BSP(M) MILD STEEL	L1=45MM	L2=31MM	YES	400BAR		
UF-004-050	NA	EXTENSION 1/8BSP(F)-1/8BSP(M) MILD STEEL	L1=50MM	L2=36MM	YES	400BAR		
UF-004-055	NA	EXTENSION 1/8BSP(F)-1/8BSP(M) MILD STEEL	L1=55MM	L2=41MM	YES	400BAR		
UF-005-026	NA	EXTENSION 1/8BSP(F)-1/4BSP(M) MILD STEEL	L1=26MM	L2=12MM	YES	400BAR		
UF-005-040	NA	EXTENSION 1/8BSP(F)-1/4BSP(M) MILD STEEL	L1=40MM	L2=26MM	YES	400BAR		
UF-005-050	NA	EXTENSION 1/8BSP(F)-1/4BSP(M) MILD STEEL	L1=50MM	L2=36MM	YES	400BAR		
UF-005-055	NA	EXTENSION 1/8BSP(F)-1/4BSP(M) MILD STEEL	L1=55MM	L2=41MM	YES	400BAR		

Stainless Steel

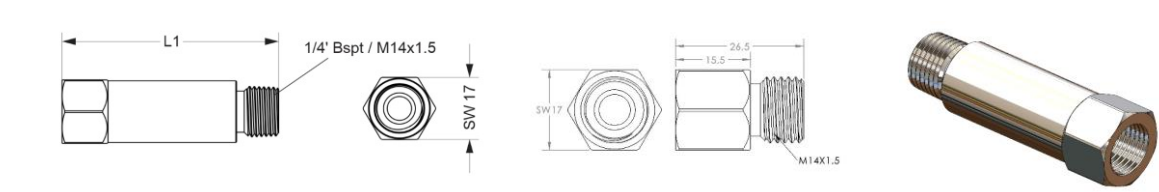


NPT THREADS AVAILABLE ON REQUEST

Item Code / UF Code	Alternative Part Number	Description	Dim Ref 1	Dim Ref 2	Manufacture	Pressure		
ADAPTORS EXTENSION CONNECTORS STAINLESS STEEL		EXTENSIONS STAINLESS STEEL	REFERENCE 1	REFERENCE 2				
UF-004-025SS	NA	EXTENSION 1/8BSP(F)-1/8BSP(M) STAINLESS STEEL	L1=25MM	L2=11MM	YES	400BAR		
UF-004-030SS	NA	EXTENSION 1/8BSP(F)-1/8BSP(M) STAINLESS STEEL	L1=30MM	L2=16MM	YES	400BAR		
UF-004-035SS	NA	EXTENSION 1/8BSP(F)-1/8BSP(M) STAINLESS STEEL	L1=35MM	L2=21MM	YES	400BAR		
UF-004-040SS	NA	EXTENSION 1/8BSP(F)-1/8BSP(M) STAINLESS STEEL	L1=40MM	L2=26MM	YES	400BAR		
UF-004-045SS	NA	EXTENSION 1/8BSP(F)-1/8BSP(M) STAINLESS STEEL	L1=45MM	L2=31MM	YES	400BAR		
UF-004-050SS	NA	EXTENSION 1/8BSP(F)-1/8BSP(M) STAINLESS STEEL	L1=50MM	L2=36MM	YES	400BAR		
UF-004-055SS	NA	EXTENSION 1/8BSP(F)-1/8BSP(M) STAINLESS STEEL	L1=55MM	L2=41MM	YES	400BAR		
UF-005-026SS	NA	EXTENSION 1/8BSP(F)-1/4BSP(M) STAINLESS STEEL	L1=26MM	L2=12MM	YES	400BAR		
UF-005-040SS	NA	EXTENSION 1/8BSP(F)-1/4BSP(M) STAINLESS STEEL	L1=40MM	L2=26MM	YES	400BAR		
UF-005-050SS	NA	EXTENSION 1/8BSP(F)-1/4BSP(M) STAINLESS STEEL	L1=50MM	L2=36MM	YES	400BAR		
UF-005-055SS	NA	EXTENSION 1/8BSP(F)-1/4BSP(M) STAINLESS STEEL	L1=55MM	L2=41MM	YES	400BAR		

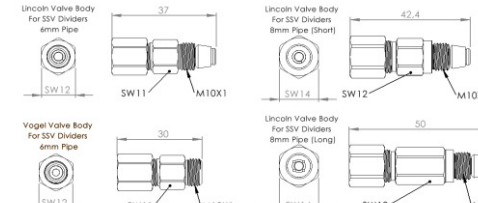
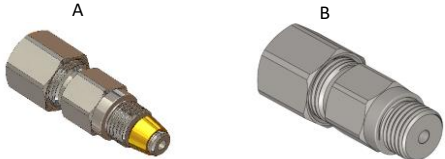
Pump Element Extensions

Stainless Steel
Zinc-nickel, Cr-6-free

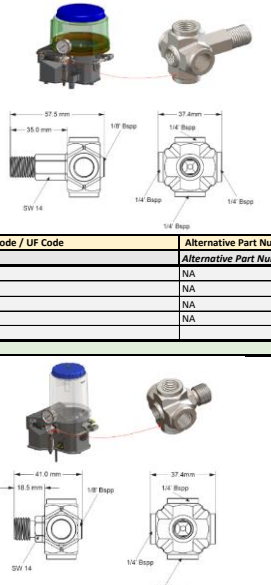



Item Code / UF Code	Alternative Part Number	Description	Dim Ref 1	Dim Ref 2	Manufacture	Pressure		
PUMP ELEMENT EXTENSIONS MILD STEEL & STAINLESS STEEL		PART DESCRIPTION	REFERENCE 1	HEX SIZE				
UF-LLPE-MS	NA	Pump Element Lincoln L56.6mm with 1/4" BSP (M)	L1=56.6MM	HEX=17MM	YES	400BAR		
UF-LLPE-SS	NA	Pump Element Lincoln L56.6mm with 1/4" BSP (M)	L1=56.6MM	HEX=17MM	YES	400BAR		
UF-VLPE-MS	NA	Pump Element Vogel L56.6mm with M14X1.5 (M)	L1=56.6MM	HEX=17MM	YES	400BAR		
UF-VLPE-SS	NA	Pump Element Vogel L56.6mm with M14X1.5 (M)	L1=56.6MM	HEX=17MM	YES	400BAR		
UF-LSPE-MS	NA	Pump Element Lincoln L41.0mm with 1/4" BSP (M)	L1=41.0MM	HEX=17MM	YES	400BAR		
UF-LSPE-SS	NA	Pump Element Lincoln L41.0mm with 1/4" BSP (M)	L1=41.0MM	HEX=17MM	YES	400BAR		
UF-VSPE-MS	NA	Pump Element Vogel L41.0mm with M14X1.5 (M)	L1=41.0MM	HEX=17MM	YES	400BAR		
UF-VSPE-SS	NA	Pump Element Vogel L41.0mm with M14X1.5 (M)	L1=41.0MM	HEX=17MM	YES	400BAR		
UF-VPES-OMS	NA	Pump Element extension short M14X1.5 Mild Steel	L1=26.5MM	HEX=17MM	YES	400BAR		
UF-VPES-SS	NA	Pump Element extension short M14X1.5 SS	L1=26.5MM	HEX=17MM	YES	400BAR		

Valve Body Outlets

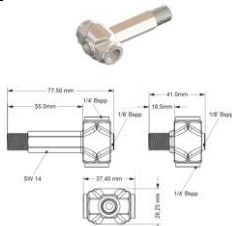
									
									
Stainless Steel Zinc-nickel, Cr-6-free									
Item Code / UF Code	Alternative Part Number	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
CHECK VALVE FOR LUBRICATION DIVIDERS									
UF-306-003-RVL	504-30344-4	VALVE BODY LINCOLN 6MM MS (A)	REFERENCE 1	HEX SIZE	YES	500	350BAR		
UF-CN6-M10LL	223-12374-9	COUPLING NUT 6MM MS		HEX 11MM	YES	500			
UF-SCR-6L	223-12295-3	CUTTING RING 6MM MS		L SERIES	YES	500	305 BAR		
UF-SCR-6LL	223-12295-2	CUTTING RING 6MM MS		LL SERIES	YES	500	107 BAR		
UF-BEVB-001	NA	BRASS FERRULE		ONLY LINCOLN CV	YES	500			
UF-LVBSS-006	NA	VALVE BODY COMPLETE 6MM SS (A)	37mm Long	HEX 11MM	YES	500	350BAR		
UF-CN6-M10LL-SS	223-13638-2	COUPLING NUT 6MM SS		HEX 11MM	YES	500			
UF-SLVBMS-08 SHORT	NA	VALVE BODY LINCOLN 8MM SHORT MS (A)	42mm Long	HEX 12MM	YES	500	350BAR		
UF-LLVBMS-08 LONG	NA	VALVE BODY LINCOLN 8MM LONG MS (A)	50mm Long	HEX 12MM	YES	500	350BAR		
UF-CN8-M12LL	223-13032-3	COUPLING NUT 8MM MS		HEX 14MM	YES	500			
UF-SCR-8L	NA	CUTTING RING 8MM MS		L SERIES	YES	500	305 BAR		
UF-SCR-8LL	223-12295-5	CUTTING RING 8MM MS		LL SERIES	YES	500	107 BAR		
UF-SLVBSS-08 SHORT	NA	VALVE BODY LINCOLN 8MM SHORT SS (A)	42mm Long	HEX 12MM	YES	500	350BAR		
UF-LLVBSS-08 LONG	NA	VALVE BODY LINCOLN 8MM LONG SS (A)	50mm Long	HEX 12MM	YES	500	350BAR		
UF-CN8-M12LL-SS	223-13638-1	COUPLING NUT 8MM SS		HEX 14MM	YES	500			
UF-VVBMS-M10	NA	VALVE BODY VOGEL 6MM MS (B)	30mm Long	HEX 11MM	YES	500	350BAR		
UF-VVBSS-M10	NA	VALVE BODY VOGEL 6MM SS (B)	30mm Long	HEX 11MM	YES	500	350BAR		
UF-RVBMS-1/8BSPT	NA	RAASM VALVE BODY 6MM MS (B)	32mm Long	HEX 11MM	YES	500	350BAR		
UF-RVBSS-1/8BSPT	NA	RAASM VALVE BODY 6MM SS (B)	32mm Long	HEX 11MM	YES	500	350BAR		
UF-RVBMS-08 Short	NA	RAASM VALVE BODY 8MM MS SHORT (B)		HEX 12MM	YES	500	350BAR		
UF-RVBSS-08 Short	NA	RAASM VALVE BODY 8MM SS SHORT (B)		HEX 12MM	YES	500	350BAR		
UF-RVBMS-08 Long	NA	RAASM VALVE BODY 8MM MS LONG (B)		HEX 12MM	YES	500	350BAR		
UF-RVBSS-08 Long	NA	RAASM VALVE BODY 8MM SS LONG (B)		HEX 12MM	YES	500	350BAR		


5 & 6 Way Adaptors

									
									
Stainless Steel Zinc-nickel, Cr-6-free									
Item Code / UF Code	Alternative Part Number	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
ADAPTORS 6 WAY T LONG									
UF-6WT-LLMS-1/4BSPT	NA	6 WAY ADAPTOR FOR LINCOLN & VOGEL PUMPS	REFERENCE 1	HEX SIZE	YES	100	600 BAR		
UF-6WT-LLSS-1/4BSPT	NA	6 WAY ADAPTOR 1/4BSPT - LINCOLN - SS	L1=57.5MM	HEX 14MM	YES	100	600 BAR		
UF-6WT-VLMS-M14X1.5	NA	6 WAY ADAPTOR 14X1.5 - VOGEL - MS	L1=57.5MM	HEX 14MM	YES	100	600 BAR		
UF-6WT-VLSS-M14X1.5	NA	6 WAY ADAPTOR 14X1.5 - VOGEL - SS	L1=57.5MM	HEX 14MM	YES	100	600 BAR		
ADAPTORS 6 WAY T SHORT									
UF-6WT-LSMS-1/4BSPT	NA	6 WAY ADAPTOR 1/4BSPT - LINCOLN - MS	L1=41MM	HEX 14MM	YES	100	600 BAR		
UF-6WT-LSSS-1/4BSPT	NA	6 WAY ADAPTOR 1/4BSPT - LINCOLN - SS	L1=41MM	HEX 14MM	YES	100	600 BAR		
UF-6WT-VSMS-M14X1.5	NA	6 WAY ADAPTOR 14X1.5 - VOGEL - MS	L1=41MM	HEX 14MM	YES	100	600 BAR		
UF-6WT-VSSS-M14X1.5	NA	6 WAY ADAPTOR 14X1.5 - VOGEL - SS	L1=41MM	HEX 14MM	YES	100	600 BAR		

3 Way adaptor Extensions long

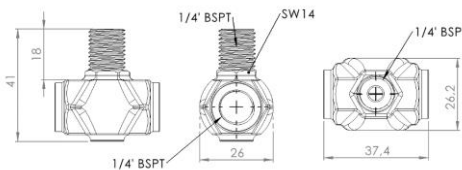
Stainless Steel
Zinc-nickel, Cr-6-free





Item Code / UF Code	Alternative Part Number	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
ADAPTORS 3 WAY T LONG		3 WAY ADAPTOR FOR LINCOLN & VOGEL PUMPS	REFERENCE 1	HEX SIZE					
UF-3WT-LLMS-1/4BSPT	NA	3 WAY ADAPTOR 1/4BSPT - LINCOLN - MS	LENGTH=77MM	HEX 14MM	YES	100	600 BAR		
UF-3WT-LLSS-1/4BSPT	NA	3 WAY ADAPTOR 1/4BSPT - LINCOLN - SS	LENGTH=77MM	HEX 14MM	YES	100	600 BAR		
UF-3WT-VLMS-M14X1.5	NA	3 WAY ADAPTOR 14X1.5 - VOGEL - MS	LENGTH=77MM	HEX 14MM	YES	100	600 BAR		
UF-3WT-VLSS-M14X1.5	NA	3 WAY ADAPTOR 14X1.5 - VOGEL - SS	LENGTH=77MM	HEX 14MM	YES	100	600 BAR		

Stainless Steel
Zinc-nickel, Cr-6-free



Item Code / UF Code	Alternative Part Number	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
ADAPTORS 3 WAY T SHORT		3 WAY ADAPTOR FOR LINCOLN & VOGEL PUMPS	REFERENCE 1	HEX SIZE					
UF-3WT-LSMS-1/4BSPT	NA	3 WAY ADAPTOR 1/4BSPT - LINCOLN - MS	LENGTH=41MM	HEX 14MM	YES	100	600 BAR		
UF-3WT-LSSS-1/4BSPT	NA	3 WAY ADAPTOR 1/4BSPT - LINCOLN - SS	LENGTH=41MM	HEX 14MM	YES	100	600 BAR		
UF-3WT-VSMS-M14X1.5	NA	3 WAY ADAPTOR 14X1.5 - VOGEL - MS	LENGTH=41MM	HEX 14MM	YES	100	600 BAR		
UF-3WT-VSSS-M14X1.5	NA	3 WAY ADAPTOR 14X1.5 - VOGEL - SS	LENGTH=41MM	HEX 14MM	YES	100	600 BAR		

Bulkhead Connectors

A

B

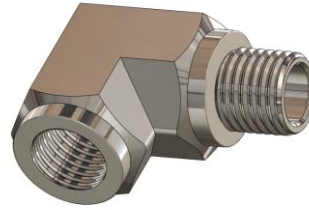
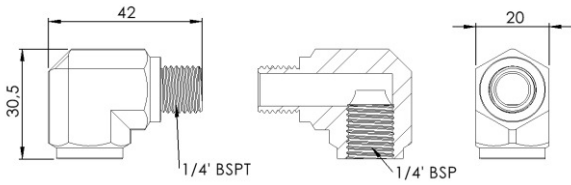
C

Stainless Steel
Zinc-nickel, Cr-6-free

Item Code / UF Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
BULKHEAD CONNECTORS JIC 37° & GEL SERIES		BULKHEAD CONNECTORS M12, MILD STEEL & SS	DRILL PANEL HOLE	REFERENCE 2					
UF-BH7/16-GE6LMS	REF: A	BULKHEAD CONNECTOR 7/16" TO CONNECT TO 6MM PIPE	12.5MM	L2=6MM	YES	100	500BAR		
UF-BH7/16-GE6LSS	REF: A	BULKHEAD CONNECTOR 7/16" TO CONNECT TO 6MM PIPE	12.5MM	L2=6MM	YES	100	500BAR		
UF-BH7/16-GE8LMS	REF: A	BULKHEAD CONNECTOR 7/16" TO CONNECT TO 8MM PIPE	12.5MM	L2=8MM	YES	100	500BAR		
UF-BH7/16-GE8LSS	REF: A	BULKHEAD CONNECTOR 7/16" TO CONNECT TO 8MM PIPE	12.5MM	L2=8MM	YES	100	500BAR		
UF-BH7/16-7/16MS	REF: B	BULKHEAD CONNECTOR 7/16" TO CONNECT 7/16" JIC	12.5MM	7/16" UNF	YES	100	500BAR		
UF-BH7/16JIC-7/16	REF: B	BULKHEAD CONNECTOR 7/16" TO CONNECT 7/16" JIC SS	12.5MM	7/16" UNF	YES	100	500BAR		
UF-GE6L-GE6LMS	REF: C	BULKHEAD CONNECTOR 6MM PIPE TO CONNECT TO 6MM PIPE	12.5MM	L2=6MM	YES	100	500BAR		
UF-GE6L-GE6LSS	REF: C	BULKHEAD CONNECTOR 6MM PIPE TO CONNECT TO 6MM PIPE	12.5MM	L2=6MM	YES	100	500BAR		
UF-GE8L-GE8LMS	REF: C	BULKHEAD CONNECTOR 8MM PIPE TO CONNECT TO 8MM PIPE	12.5MM	L2=8MM	YES	100	500BAR		
UF-GE8L-GE8LSS	REF: C	BULKHEAD CONNECTOR 8MM PIPE TO CONNECT TO 8MM PIPE	12.5MM	L2=8MM	YES	100	500BAR		
UF-GE6L-GE8LMS	REF: C	BULKHEAD CONNECTOR 6MM PIPE TO CONNECT TO 8MM PIPE	12.5MM	L1=8MM, L2=6MM	YES	100	500BAR		
UF-GE6L-GE8LSS	REF: C	BULKHEAD CONNECTOR 6MM PIPE TO CONNECT TO 8MM PIPE	12.5MM	L1=8MM, L2=6MM	YES	100	500BAR		

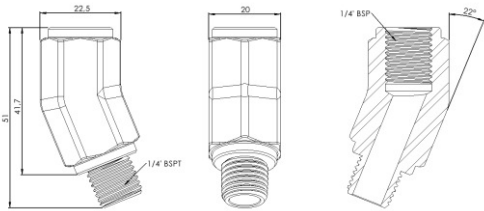
High Pressure / heavy duty Elbows, T Connectors & special T Sections

Stainless Steel



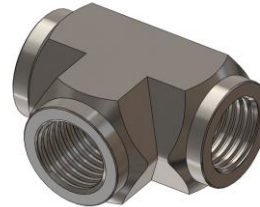
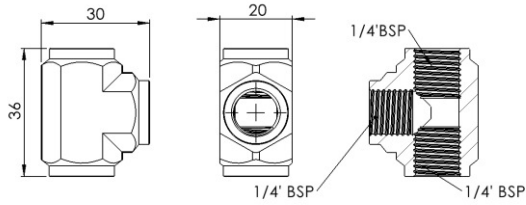
Item Code / UF Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
ELBOW 90°	Alternative Part Number	ELBOW 90° STAINLESS STEEL S SERIES	DIMENSION	DIMENSION					
UF-E90-SS	NA	ELBOW 90° STAINLESS STEEL			YES	50	600 BAR		

Stainless Steel



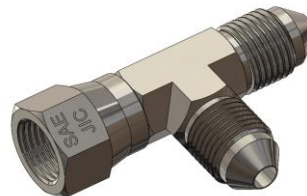
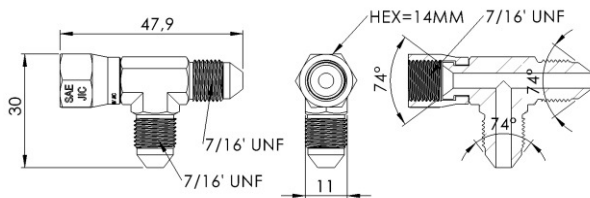
Item Code / UF Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
ELBOW 22°	Alternative Part Number	ELBOW 22° STAINLESS STEEL S SERIES	DIMENSION	DIMENSION					
UF-E22-SS	NA	ELBOW 22° STAINLESS STEEL			YES	50	600 BAR		

Stainless Steel



Item Code / UF Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
3 WAY T	Alternative Part Number	3 WAY T STAINLESS STEEL S SERIES	DIMENSION	DIMENSION					
UF-E3T-SS	NA	3 WAY T STAINLESS STEEL			YES	50	600 BAR		

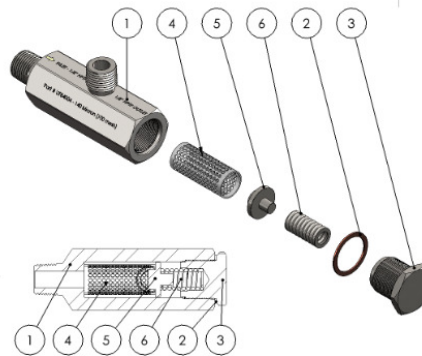
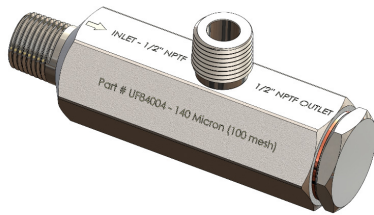
Stainless Steel



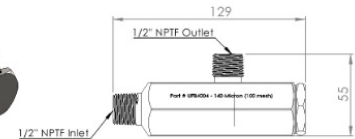
Item Code / UF Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
3 WAY T	Alternative Part Number	3 WAY T STAINLESS STEEL S SERIES	DIMENSION	DIMENSION					
UF-E7/16T	NA	3 WAY 7/16' T WITH SWIVEL STAINLESS STEEL			YES	50	300 BAR		

Grease filter : 140µm 100 Mesh - UF-84004.....Grease Filter 250µm - UF-84013

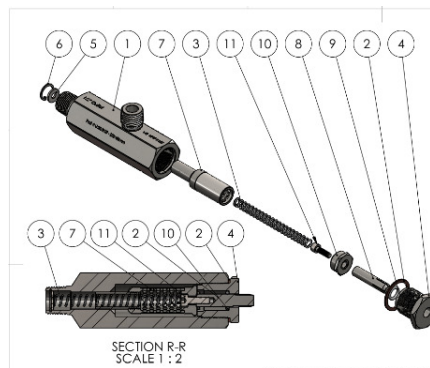
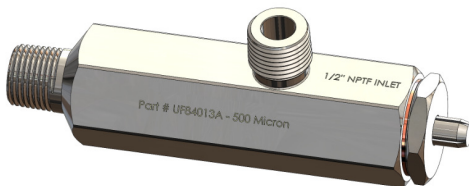
UF-84004



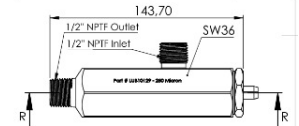
ITEM NO.	DESCRIPTION	PART #	QTY.
1	Main Body 84004	UFMDF-84004	1
2	Copper Washer 84004	UFCW-84004	1
3	End Cap 84004	UFEC-84004	1
4	Filter Cartridge 140 micron (100 Mesh)	UFEC-84004	1
5	Spring Support 84004	UFSS-84004	1
6	Main Spring 84004	UFMS-84004	1



UF-84013

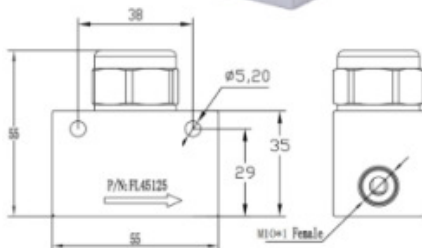


ITEM NO.	DESCRIPTION	PART #	QTY.
1	Main Body UF84013	UFMDF-84013	1
2	Copper Washer 84004	UFCW-84004	1
3	Main Spring UF84013	UFMS-84013	1
4	End Cap UF84013	UFEC-84013	1
5	Steel Washer M6X14	UFSW14	1
6	Circlip 16mm Int.	UFCC-16MM	1
7	Filter Cartridge 250 Micron for UF84013	UF84013FE	1
8	Indicator Pin UF84013	UFIP-84013	1
9	O-ring 9X2.5 Viton	OR9X2.5VIT	1
10	Indicator Pin Support Nut	UFIPSN-84013	1
11	Caphead M5X16 S5	UFCHSM5X16	1



Complies to general & driven Machinery Regulations - DMR & GMR

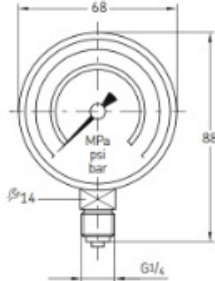
Grease filter: 180µm and 125µm




Part number	Rate	Thread F	Material
UF-AL45180	180µm	M10*1	AL
UF-AL45125	125µm	M10*1	

To order filters with other rate, please contact your sales manager.

Pressure Gauges

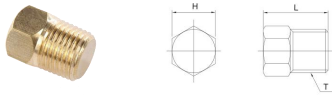




Stainless Steel
Glycerin filled

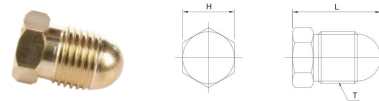
Item Code / Uf Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture	Pressure		
PRESSURE GAUGES STAINLESS STEEL	Alternative Part Number	PRESSURE GAUGES WITH 1/4" BSPT BOTTOM MOUNT	HEX SIZE 1	DIMENSION L1				
UF-PG55-40	169-104-015	PRESSURE GAUGE 0-40 BAR SS	HEX 14MM	L=88MM	YES	0-40BAR		
UF-PG55-60	169-106-015	PRESSURE GAUGE 0-60 BAR SS	HEX 14MM	L=88MM	YES	0-60BAR		
UF-PG55-100	169-110-015	PRESSURE GAUGE 0-100 BAR SS	HEX 14MM	L=88MM	YES	0-100BAR		
UF-PG22-250	169-125-015	PRESSURE GAUGE 0-250 BAR SS	HEX 14MM	L=88MM	YES	0-250BAR		
UF-PG55-400	169-140-001	PRESSURE GAUGE 0-400 BAR SS	HEX 14MM	L=88MM	YES	0-400BAR		
UF-PG55-600	NA	PRESSURE GAUGE 0-600 BAR SS	HEX 14MM	L=88MM	YES	0-600BAR		

Closure plug - (Brass)



Part number	L	T	H
UF-3G0408	12	M8*1.0	8
UF-3G0601	14	PT1/8"	10

Sleeve plug - (Brass)



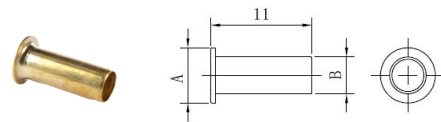
Part number	L	T	H
UF-3G04	16	M8*1.0	8
UF-3G06	17	M10*1.0	10

Straight Fitting assembly - (Brass)



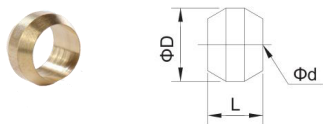
Part number	OD	Thread
UF-3D0410T	Ø4	M10*1
UF-3D0610T	Ø6	M10*1
UF-3D0408T	Ø4	M8*1.0
UF-3D0406T	Ø4	M6*1.0

Re-enforcing tube - (Brass)



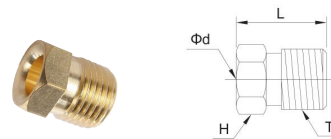
Part number	A	B
UF-BF04	4	2
UF-BF0425	4	2.5
UF-BF06	6	4
UF-BF0630	6	3

Cone Ferrule - (Brass)



Part number	OD	Ød	ØD	L
UF-3B04	4	4.1	6	4.5
UF-3B06	6	6.1	8	5
UF-3B08	8	8.1	11	7
UF-3B10	10	10.1	13.5	8

Nut Adaptor - (Brass)



Part number	OD	Ød	L	H	T
UF-3A04	4	4.1	12	8	M8*1.0
UF-3A06	6	6.1	12.5	10	M10*1.0
UF-3A08	8	8.1	14	14	M14*1.5
UF-3A10	10	10.1	15	16	M16*1.5

Fittings & Accessories

High-pressure Polyamide Tube



Part number	Outer diameter	Inside diameter
UF-T-HP03	Ø6	Ø3
UF-T-HP04	Ø8.6	Ø4
UF-T-HP06	Ø11	Ø6.3

Nylon tubing (BP in black; WP in white)



Part number	Outer diameter	Inside diameter
UF-T-BP06	Ø6	Ø3
UF-T-BP04	Ø4	Ø2.5
UF-T-WP06	Ø6	Ø4
UF-T-WP04	Ø4	Ø2

Steel tubing - SS 316



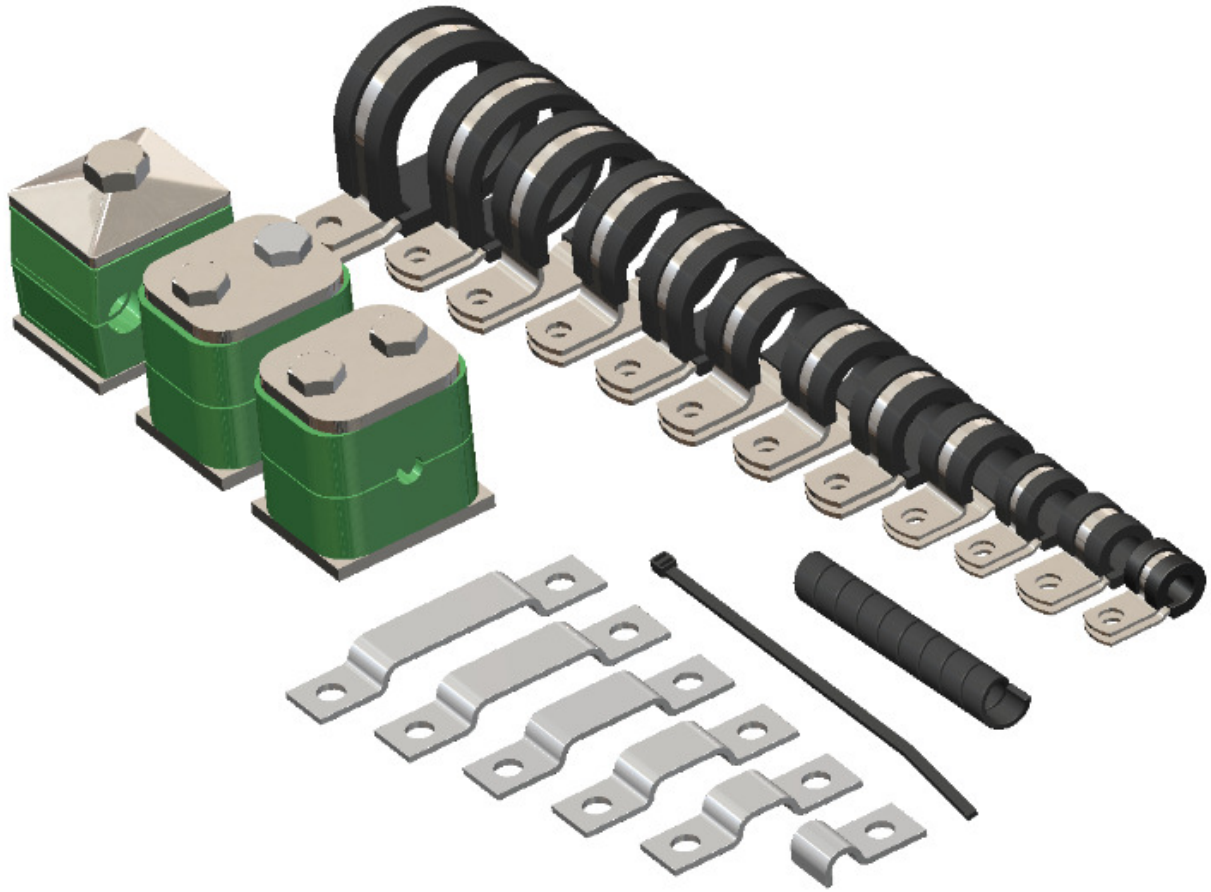
Part number	Outer diameter	Inside diameter
UF-T-CP04	Ø4	Ø2
UF-T-CP06	Ø6	Ø4
UF-T-CP08	Ø8	Ø6
UF-T-CP10	Ø10	Ø8

Pipe Protective Spring coil



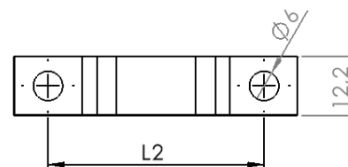
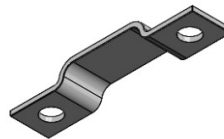
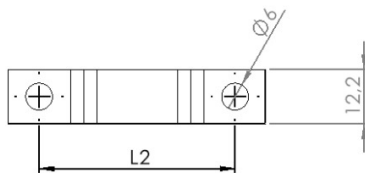
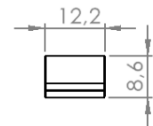
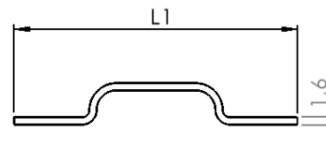
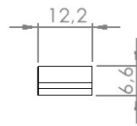
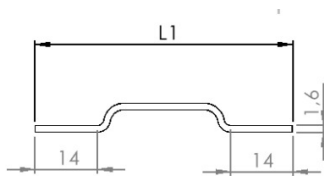
Part number	Ød	Suitable pipe outer diameter
UF-THT04	4.5	4
UF-THT06	6.5	6
UF-THT08	11	9.3

Pipe & Tubing Fixures



6mm Steel Pipe Clamp Dims

6mm Steel Pipe Clamp Dims



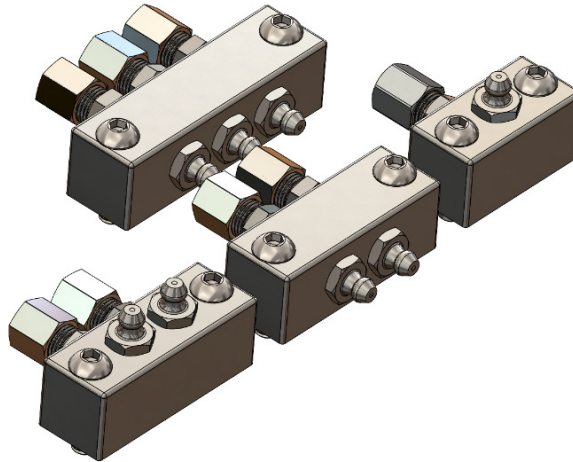
Steel Pipe Clamps Mild Steel for 6 & 8mm Pipes- Galvanized Nickel

Part number	Description	Ref: - L1	Ref: L2	Material
UFL-GJ-6-1	Steel Pipe Clamp for 1 Pipe - 6mm	L1=24.5mm	-	Mild Steel Galvanized Nickel
UFL-GJ-6-2	Steel Pipe Clamp for 2 Pipes - 6mm	L1=45.7mm	L2=31.8mm	
UFL-GJ-6-3	Steel Pipe Clamp for 3 Pipes - 6mm	L1=51.7mm	L2=37.8mm	
UFL-GJ-6-4	Steel Pipe Clamp for 4 Pipes - 6mm	L1=57.7mm	L2=43.8mm	
UFL-GJ-6-5	Steel Pipe Clamp for 5 Pipes - 6mm	L1=63.7mm	L2=49.8mm	
UFL-GJ-6-6	Steel Pipe Clamp for 6 Pipes - 6mm	L1=69.7mm	L2=55.8mm	
UFL-GJ-8-1	Steel Pipe Clamp for 1 Pipe - 8mm	L1=26.2mm	-	
UFL-GJ-8-2	Steel Pipe Clamp for 2 Pipes - 8mm	L1=50.1mm	L2=36.2mm	
UFL-GJ-8-3	Steel Pipe Clamp for 3 Pipes - 8mm	L1=58.1mm	L2=44.2mm	
UFL-GJ-8-4	Steel Pipe Clamp for 4 Pipes - 8mm	L1=66.1mm	L2=52.8mm	
UF-M5MS	M5 Self Tapping Screw	M5X10mm		

Steel Pipe Clamps Mild Steel for 6 & 8mm Pipes- Stainless Steel

Part number	Description	Ref: - L1	Ref: L2	Material
UFL-GJ-6-1-VA	Steel Pipe Clamp for 1 Pipe - 6mm	L1=24.5mm	-	Stainless Steel
UFL-GJ-6-2-VA	Steel Pipe Clamp for 2 Pipes - 6mm	L1=45.7mm	L2=31.8mm	
UFL-GJ-6-3-VA	Steel Pipe Clamp for 3 Pipes - 6mm	L1=51.7mm	L2=37.8mm	
UFL-GJ-6-4-VA	Steel Pipe Clamp for 4 Pipes - 6mm	L1=57.7mm	L2=43.8mm	
UFL-GJ-6-5-VA	Steel Pipe Clamp for 5 Pipes - 6mm	L1=63.7mm	L2=49.8mm	
UFL-GJ-6-6-VA	Steel Pipe Clamp for 6 Pipes - 6mm	L1=69.7mm	L2=55.8mm	
UFL-GJ-8-1-VA	Steel Pipe Clamp for 1 Pipe - 8mm	L1=26.2mm	-	
UFL-GJ-8-2-VA	Steel Pipe Clamp for 2 Pipes - 8mm	L1=50.1mm	L2=36.2mm	
UFL-GJ-8-3-VA	Steel Pipe Clamp for 3 Pipes - 8mm	L1=58.1mm	L2=44.2mm	
UFL-GJ-8-4-VA	Steel Pipe Clamp for 4 Pipes - 8mm	L1=66.1mm	L2=52.8mm	
UF-M5MS	M5 Self Tapping Screw SS	M5X10mm		

Remote Grease Port Manifolds for 90° applications



Part number	Description	Length	Square	Material
UF-1PM90°-1/8	1 PORT MANIFOLD WITH 1/8" BSP THREADED HOLE	L=40mm	20mm	Stainless Steel
UF-2PM90°-1/8	2 PORT MANIFOLD WITH 1/8" BSP THREADED HOLE	L=55mm	20mm	
UF-3PM90°-1/8	3 PORT MANIFOLD WITH 1/8" BSP THREADED HOLE	L=70mm	20mm	
UF-4PM90°-1/8	4 PORT MANIFOLD WITH 1/8" BSP THREADED HOLE	L=85mm	20mm	
UF-5PM90°-1/8	5 PORT MANIFOLD WITH 1/8" BSP THREADED HOLE	L=100mm	20mm	
UF-6PM90°-1/8	6 PORT MANIFOLD WITH 1/8" BSP THREADED HOLE	L=115mm	20mm	
UF-BHS-M6X25	Button Head Screw	M6X25		
UF-GN-1/8BSPT	Grease Nipple 1/8" Bspt			

Remote Grease Port Manifolds for parallel applications

Part number	Description	Length	Square	Material
UF-1PM-1/8	1 PORT MANIFOLD WITH 1/8" BSP THREADED HOLE	L=40mm	20mm	Stainless Steel
UF-2PM-1/8	2 PORT MANIFOLD WITH 1/8" BSP THREADED HOLE	L=55mm	20mm	
UF-3PM-1/8	3 PORT MANIFOLD WITH 1/8" BSP THREADED HOLE	L=70mm	20mm	
UF-4PM-1/8	4 PORT MANIFOLD WITH 1/8" BSP THREADED HOLE	L=85mm	20mm	
UF-5PM-1/8	5 PORT MANIFOLD WITH 1/8" BSP THREADED HOLE	L=100mm	20mm	
UF-6PM-1/8	6 PORT MANIFOLD WITH 1/8" BSP THREADED HOLE	L=115mm	20mm	
UF-BHS-M6X25	Button Head Screw	M6X25		
UF-GN-1/8BSPT	Grease Nipple 1/8" Bspt			

** Connectors, grease nipples and screws to be ordered separately

Spiralwrap



Part number	Ød	Suitable pipe outer diameter
UF-THL08-1	8	6
UF-THL10-1	10	8.6
UF-THL12-1	12	11.2

Cable tie



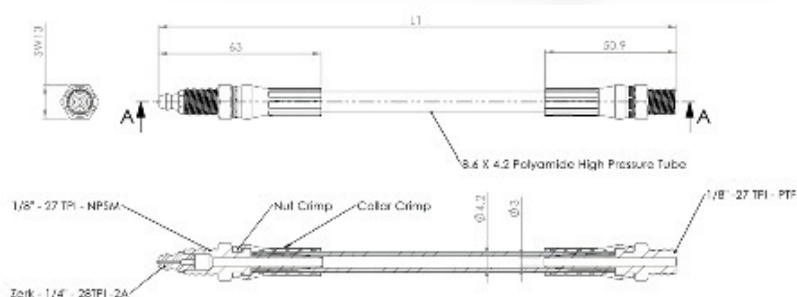
Part number	Width	Length	Material
UF-ZDCH5200	5	200	Nylon
UF-ZDCH5300	5	300	
UF-ZDCH5500	5	500	

R Pipe clamp



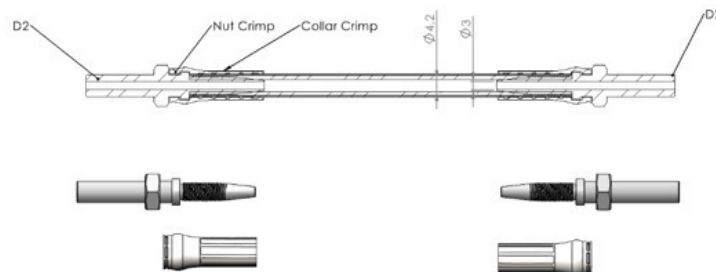
Part number	Ød	Mounting hole
UF-RC06	6	6.4mm
UF-RC08	8	6.4mm
UF-RC10	10	6.4mm
UF-RC12	12	6.4mm
UF-RC14	14	6.4mm
UF-RC16	16	6.4mm
UF-RC18	18	6.4mm
UF-RC20	20	6.4mm
UF-RC22	22	6.4mm
UF-RC25	25	6.4mm
UF-RC28	28	6.4mm
UF-RC30	30	6.4mm

Hose Connections for 8.4mm hose crimped with grease nipple
Carbon Steel-Zinc Nickel, CR Free with option in SS



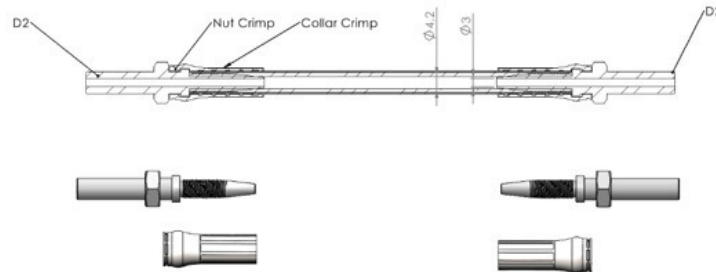
Item Code	Alt Item Code	Description	Dim Ref L1	Dim Ref 2	Max Pressure
UF-CZF-200MS		Crimped Sleeve for 8.4mm hose	L1=200mm	1/8" BSPT	350 Bar
UF-CZF-250MS		Crimped Sleeve for 8.4mm hose	L1=250mm	1/8" BSPT	350 Bar
UF-CZF-300MS		Crimped Sleeve for 8.4mm hose	L1=300mm	1/8" BSPT	350 Bar
UF-CZF-400MS		Crimped Sleeve for 8.4mm hose	L1=400mm	1/8" BSPT	350 Bar
UF-CZF-500MS		Crimped Sleeve for 8.4mm hose	L1=500mm	1/8" BSPT	350 Bar
UF-CZF-750MS		Crimped Sleeve for 8.4mm hose	L1=750mm	1/8" BSPT	350 Bar
UF-CZF-1000MS		Crimped Sleeve for 8.4mm hose	L1=1000mm	1/8" BSPT	350 Bar
UF-CZF-200SS		Crimped Sleeve for 8.4mm hose	L1=200mm	1/8" BSPT	350 Bar
UF-CZF-250SS		Crimped Sleeve for 8.4mm hose	L1=250mm	1/8" BSPT	350 Bar
UF-CZF-300SS		Crimped Sleeve for 8.4mm hose	L1=300mm	1/8" BSPT	350 Bar
UF-CZF-400SS		Crimped Sleeve for 8.4mm hose	L1=400mm	1/8" BSPT	350 Bar
UF-CZF-500SS		Crimped Sleeve for 8.4mm hose	L1=500mm	1/8" BSPT	350 Bar
UF-CZF-750SS		Crimped Sleeve for 8.4mm hose	L1=750mm	1/8" BSPT	350 Bar
UF-CZF-1000SS		Crimped Sleeve for 8.4mm hose	L1=1000mm	1/8" BSPT	350 Bar

Hose Connections for 8.4mm hose crimped with 6mm Standpipe
Carbon Steel-Zinc Nickel, CR Free with option in SS



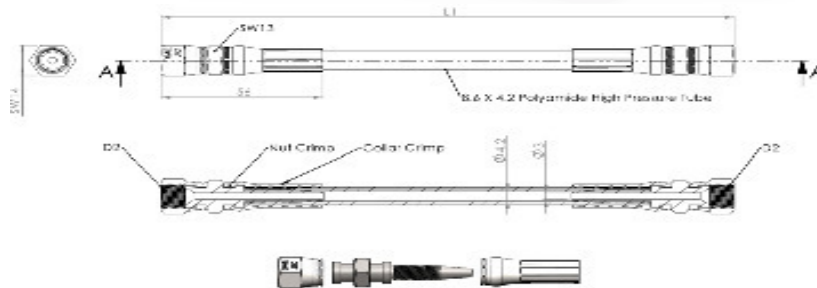
Item Code	Alt Item Code	Description	Dim Ref L1	Dim Ref 2	Max Pressure
UF-6F-200MS		Crimped Sleeve for 8.4mm hose	L1=200mm	6MM	350 Bar
UF-6F-250MS		Crimped Sleeve for 8.4mm hose	L1=250mm	6MM	350 Bar
UF-6F-300MS		Crimped Sleeve for 8.4mm hose	L1=300mm	6MM	350 Bar
UF-6F-400MS		Crimped Sleeve for 8.4mm hose	L1=400mm	6MM	350 Bar
UF-6F-500MS		Crimped Sleeve for 8.4mm hose	L1=500mm	6MM	350 Bar
UF-6F-750MS		Crimped Sleeve for 8.4mm hose	L1=750mm	6MM	350 Bar
UF-6F-1000MS		Crimped Sleeve for 8.4mm hose	L1=1000mm	6MM	350 Bar
UF-6F-200SS		Crimped Sleeve for 8.4mm hose	L1=200mm	6MM	350 Bar
UF-6F-250SS		Crimped Sleeve for 8.4mm hose	L1=250mm	6MM	350 Bar
UF-6F-300SS		Crimped Sleeve for 8.4mm hose	L1=300mm	6MM	350 Bar
UF-6F-400SS		Crimped Sleeve for 8.4mm hose	L1=400mm	6MM	350 Bar
UF-6F-500SS		Crimped Sleeve for 8.4mm hose	L1=500mm	6MM	350 Bar
UF-6F-750SS		Crimped Sleeve for 8.4mm hose	L1=750mm	6MM	350 Bar
UF-6F-1000SS		Crimped Sleeve for 8.4mm hose	L1=1000mm	6MM	350 Bar

Hose Connections for 8.4mm hose crimped with 8mm Standpipe Carbon Steel-Zinc Nickel, CR Free with option in SS



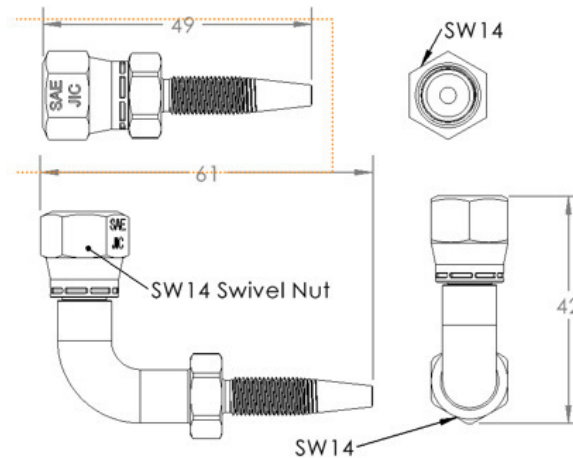
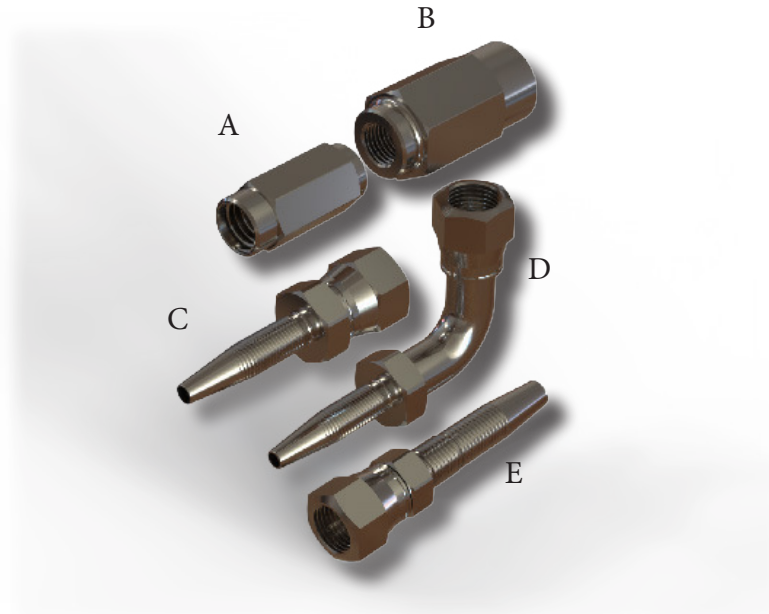
Item Code	Alt Item Code	Description	Dim Ref L1	Dim Ref 2	Max Pressure
UF-8F-200MS		Crimped Sleeve for 8.4mm hose	L1=200mm	8MM	350 Bar
UF-8F-250MS		Crimped Sleeve for 8.4mm hose	L1=250mm	8MM	350 Bar
UF-8F-300MS		Crimped Sleeve for 8.4mm hose	L1=300mm	8MM	350 Bar
UF-8F-400MS		Crimped Sleeve for 8.4mm hose	L1=400mm	8MM	350 Bar
UF-8F-500MS		Crimped Sleeve for 8.4mm hose	L1=500mm	8MM	350 Bar
UF-8F-750MS		Crimped Sleeve for 8.4mm hose	L1=750mm	8MM	350 Bar
UF-8F-1000MS		Crimped Sleeve for 8.4mm hose	L1=1000mm	8MM	350 Bar
UF-8F-200SS		Crimped Sleeve for 8.4mm hose	L1=200mm	8MM	350 Bar
UF-8F-250SS		Crimped Sleeve for 8.4mm hose	L1=250mm	8MM	350 Bar
UF-8F-300SS		Crimped Sleeve for 8.4mm hose	L1=300mm	8MM	350 Bar
UF-8F-400SS		Crimped Sleeve for 8.4mm hose	L1=400mm	8MM	350 Bar
UF-8F-500SS		Crimped Sleeve for 8.4mm hose	L1=500mm	8MM	350 Bar
UF-8F-750SS		Crimped Sleeve for 8.4mm hose	L1=750mm	8MM	350 Bar
UF-8F-1000SS		Crimped Sleeve for 8.4mm hose	L1=1000mm	8MM	350 Bar

Hose Connections for 8.4mm hose crimped Swivel Nut 7/16" (37°) UNF
Carbon Steel-Zinc Nickel, CR Free with option in SS



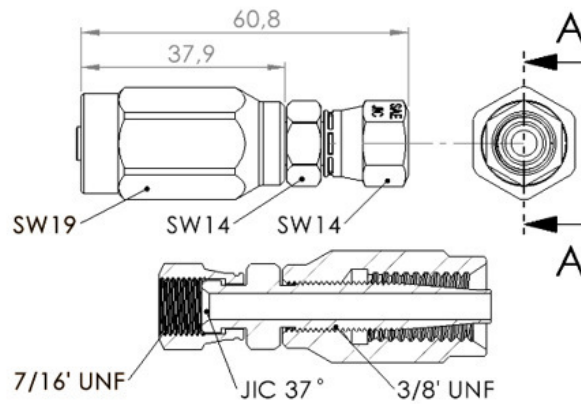
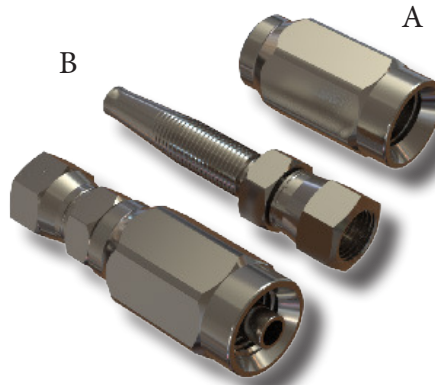
Item Code	Alt Item Code	Description	Dim Ref L1	Dim Ref 2	Max Pressure
UF-JIC-200MS		Crimped Sleeve for 8.4mm hose	L1=200mm	7/16" UNF	350 Bar
UF-JIC-250MS		Crimped Sleeve for 8.4mm hose	L1=250mm	7/16" UNF	350 Bar
UF-JIC-300MS		Crimped Sleeve for 8.4mm hose	L1=300mm	7/16" UNF	350 Bar
UF-JIC-400MS		Crimped Sleeve for 8.4mm hose	L1=400mm	7/16" UNF	350 Bar
UF-JIC-500MS		Crimped Sleeve for 8.4mm hose	L1=500mm	7/16" UNF	350 Bar
UF-JIC-750MS		Crimped Sleeve for 8.4mm hose	L1=750mm	7/16" UNF	350 Bar
UF-JIC-1000MS		Crimped Sleeve for 8.4mm hose	L1=1000mm	7/16" UNF	350 Bar
UF-JIC-200SS		Crimped Sleeve for 8.4mm hose	L1=200mm	7/16" UNF	350 Bar
UF-JIC-250SS		Crimped Sleeve for 8.4mm hose	L1=250mm	7/16" UNF	350 Bar
UF-JIC-300SS		Crimped Sleeve for 8.4mm hose	L1=300mm	7/16" UNF	350 Bar
UF-JIC-400SS		Crimped Sleeve for 8.4mm hose	L1=400mm	7/16" UNF	350 Bar
UF-JIC-500SS		Crimped Sleeve for 8.4mm hose	L1=500mm	7/16" UNF	350 Bar
UF-JIC-750SS		Crimped Sleeve for 8.4mm hose	L1=750mm	7/16" UNF	350 Bar
UF-JIC-1000SS		Crimped Sleeve for 8.4mm hose	L1=1000mm	7/16" UNF	350 Bar

Hose Connections for 8.4mm & 11.2mm Hose 7/16" JIC (37°) Swivel Nut Carbon Steel-Zinc Nickel, CR Free with option in SS



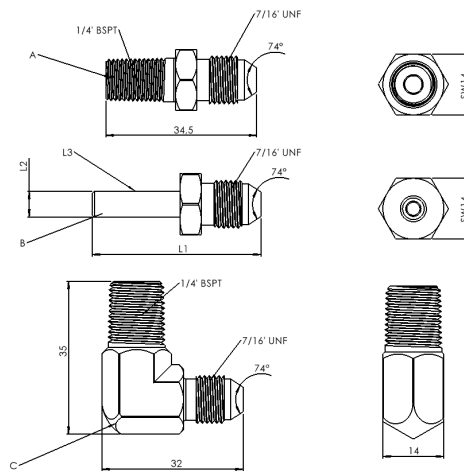
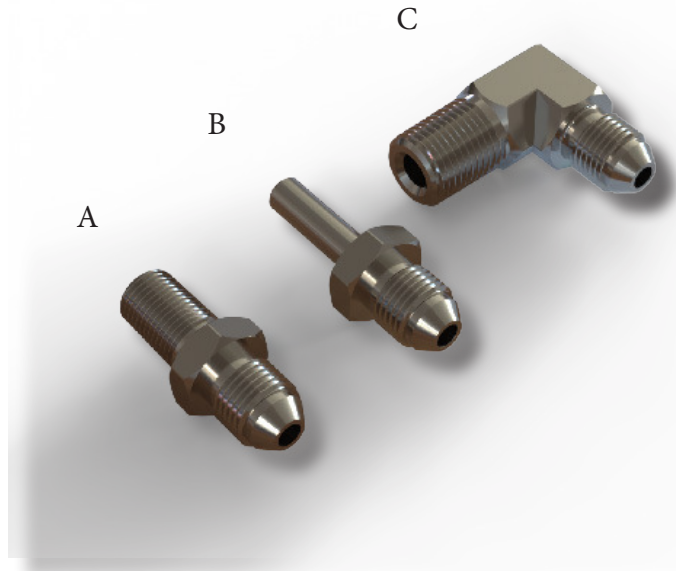
Item Code	Description	Dim Ref L1	Dim Ref 2	Max Pressure
UF-08MS-JIC	JIC Swivel Insert for 8.4mm Hose Str.	Hex=14	C	400 Bar
UF-08SS-JIC	JIC Swivel Insert for 8.4mm Hose Str.	Hex=14	C	400 Bar
UF-08MS-JIC90	JIC Swivel Insert for 8.4mm Hose 90°	Hex=14	D	400 Bar
UF-08SS-JIC90	JIC Swivel Insert for 8.4mm Hose 90°	Hex=14	D	400 Bar
UF-12MS-JIC	JIC Swivel Insert for 11.2mm Hose Str.	Hex=14	E	400 Bar
UF-12SS-JIC	JIC Swivel Insert for 11.2mm Hose Str.	Hex=14	E	400 Bar
UF-K050	Threaded Sleeve for 8.4mm hose	Hex=12	A	400 Bar
UF-K050-VA	Threaded Sleeve for 8.4mm hose	Hex=12	A	400 Bar
UF-K060	Threaded Sleeve for 11.2mm hose	Hex=17	B	400 Bar
UF-K060-VA	Threaded Sleeve for 11.2mm hose	Hex=17	B	400 Bar

Hose Connections for 1/4" R1 Hose with 7/16" JIC (37°) Swivel Nut Carbon Steel-Zinc Nickel, CR Free with option in SS



Item Code	Description	Dim Ref L1	Dim Ref 2	Max Pressure
UF-R1INS-7/16MMS	R1 Insert with 7/16 Swivel 37° Stud 3/8 UNF MS	Hex=14, Sleeve 19	A	350 Bar
UF-R1INS-7/16MSS	R1 Insert with 7/16 Swivel 37° Stud 3/8 UNF SS	Hex=14, Sleeve 19	A	350 Bar
UF-R1S-SS	7/16 JIC Threaded Sleeve - R1(1/4") Hose SS	Hex 19mm	B	350 Bar
UF-R1S-MS	7/16 JIC Threaded Sleeve - R1(1/4") Hose MS	Hex 19mm	B	350 Bar

Nipple Connections 7/16" JIC (37°) UNF Carbon Steel-Zinc Nickel, CR Free with option in SS



Item Code	Description	Dim Ref L1	Dim Ref 2	Max Pressure
UF-JIC-1	7/16 JIC to 1/8 BSPT Nipple MS	24.5mm	A	350 Bar
UF-JIC-2	7/16 JIC to 1/4 BSPT Nipple MS	-	A	350 Bar
UF-7/16JIC1/8-01	7/16 JIC to 1/8 BSPT Nipple SS	24.5mm	A	350 Bar
UF-JIC-2SS	7/16 JIC to 1/4 BSPT Nipple SS	-	A	350 Bar
UF-JIC-6S	7/16 JIC to 6mm Standpipe Short Nipple MS	L3 =20mm	B	350 Bar
UF-JIC-6L	7/16 JIC to 6mm Standpipe Long Nipple MS	L3 =30mm	B	350 Bar
UF-JIC-6SS	7/16 JIC to 6mm Standpipe Short Nipple SS	L3 =20mm	B	350 Bar
UF-JIC-6LS	7/16 JIC to 6mm Standpipe Long Nipple MS	L3 =30mm	B	350 Bar
UF-JIC-8S	7/16 JIC to 8mm Standpipe Short Nipple MS	L3 =30mm	B	350 Bar
UF-JIC-8L	7/16 JIC to 8mm Standpipe Long Nipple MS	L3 =30mm	B	350 Bar
UF-JIC-8SS	7/16 JIC to 8mm Standpipe Short Nipple SS	L3 =30mm	B	350 Bar
UF-JIC-8LS	7/16 JIC to 8mm Standpipe Long Nipple SS	L3 =30mm	B	350 Bar
UF-JIC-1/8-90MS	7/16 JIC to 1/8 BSPT elbow Nipple MS	-	C	350 Bar
UF-JIC-1/8-90SS	7/16 JIC to 1/8 BSPT elbow Nipple SS	-	C	350 Bar
UF-JIC-1/4-90MS	7/16 JIC to 1/4 BSPT elbow Nipple MS	-	C	350 Bar
UF-JIC-1/4-90SS	7/16 JIC to 1/4 BSPT elbow Nipple MS	-	C	350 Bar

Series
OL500



IP54  

**Wide Range of Oil Viscosity.
Refillable On-Site. Cost Effective.**



Pulsarlube **OL500**



Features & Advantages

Outstanding Performance

- ▶ A vertical feed pump controlled by a microprocessor allows accurate dispensing and covers a wide viscosity range
- ▶ Large 500ml oil reservoir

Cost Savings

- ▶ Lower maintenance costs than manual lubrication
- ▶ Refillable oil reservoir

Multi-Point Lubrication

High output pressure (10bar) enables long lubelines and multi-point lubrication

User Friendly Programming

Easy to program with built-in LCD and simple button controls

Easy Maintenance

Transparent container for easy visual inspection of remaining oil

Other Features

- ▶ Various dispensing settings to suit a wide range of industrial applications
- ▶ Auto Lockout mode to prevent unintentional system changes
- ▶ Easy to install in confined areas



Typical Industries and Applications



— Bearings

— Chains

— Cable ropes

— Cable tracks

— Pumps

— Motors

— Escalators, etc.



Overview



Product Specifications



Oil Reservoir Capacity

500ml (refillable)

Power Supply

DC 4.5V Battery Pack (replaceable)

Operating Pressure

10bar (145psi) (depends on oil viscosity)

Operating Temperature

Standard Alkaline Battery :
-15°C~60°C (5°F~140°F)
Optional Lithium Battery :
-40°C~60°C (-40°F~140°F)

Dispensing Periods

1, 2, 4, 6, 12, 18, 24 month & H (15 days)

Single Point Remote Installation

Max. 6m (20ft) with Ø4 tube

Multi-Point Installation

Max. 3m (10ft) with O.D. Ø4 tube
(Up to 4 lube points)

Product Certifications & IP Code

IP54

Oil Viscosity Range

10~10,000 cSt@40°C

* Special instructions available
for 10~100 cSt@40°C

Series
S100



Ingenious Design for Easy Installation and Simple Operation.



Pulsarlube **S**

Features & Advantages

Innovative Design

The upward piston movement dramatically reduces grease hardening, the chronic issue of conventional spring type lubricators

More Reliable Lubrication

More reliable than other conventional spring type lubricators by minimizing the problem of oil separation

Cost Savings

Prevent plant downtime and save on manpower consumption for manual lubrication

User Friendly

- ▶ Available pre-filled and can be installed right out of the box
- ▶ Grease dispensing rate can be easily adjusted by using a control knob
- ▶ Refillable and reusable

Typical Industries and Applications



The following equipment will benefit from using the Pulsarlube S

- Ball, roller bearings
- Shield bearings
- Bronze, oilite or open bearings
- Applications where a bearing flush is necessary

Overview



Product Specifications

Grease Pouch Capacity

100ml (refillable)

Operating Method

Spring

Operating Pressure

N/A

Operating Temperature

-20°C~100°C (-4°F~212°F)

Dispensing Periods

5 Dial Settings

Single Point Remote Installation

N/A

Multi-Point Installation

N/A

Series
M60/M125/M250/M500



CE FCC IP65  

Total Reliability - Advanced Diagnostics, Unrivalled Output Pressure, Wide Temp Capability.



Pulsarlube **M**

Features & Advantages

Cost Savings

Substantial savings from the use of replaceable grease pouches and battery packs (Service Pack)

Remote Installation

High output pressure (30bar) enables remote installation up to 10m (33ft)

Multi-Point Installation

Up to 8 lube points using Ø6 tube, Max. 6m (20ft) per point

Simple Operation

Easy to program with built-in LCD and simple button controls

Convenient Maintenance

Transparent container for easy visual inspection of remaining lubricant

Other Features

- ▶ Various dispensing settings & grease pouch volumes to suit a wide range of industrial applications
- ▶ Auto Lock Out mode to prevent unintentional mode changes
- ▶ Easy to install in hazardous & confined areas

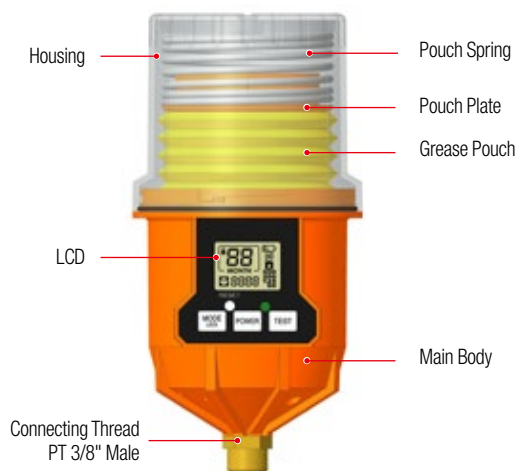
Typical Industries and Applications



- Automotive plants, iron/steel mills and nuclear power plants
- Cleanrooms & LM Guides where precise, multi-point lubrication is needed
- HVAC equipment & cooling towers where long lube lines may be necessary

- Motors and pumps in city water & wastewater treatment facilities
- Any places with extreme (low or high) temperature

Overview



Product Specifications

Grease Pouch Capacity

60ml / 125ml / 250ml / 500ml
(capacity setting available)

Power Supply

DC 4.5V Battery Pack (replaceable)
Standard : Alkaline Battery
Optional : Lithium Battery

Operating Pressure

30~60bar (435~870psi)

Operating Temperature

Standard Alkaline Battery :
-15°C~60°C (5°F~140°F)
Optional Lithium Battery :
-40°C~60°C (-40°F~140°F)

Dispensing Periods

1~12 month

Single Point Remote Installation

Max. 10m (33ft) with Ø6 tube

Multi-Point Installation

Max. 6m (20ft) with Ø6 tube
(Up to 8 lube points)

Dispensing Volume Size

0.34ml/stroke (@20°C/68°F)

Product Certifications & IP Code

CE / KC / FCC / RoHS / IP65

Series
MSP60/MSP125/MSP250/MSP500



More Reliable. More Efficient. More Precise.
Machine Synchronized & Externally Powered.



Pulsarlube **MSP**

Features & Advantages

Synchronized Lubrication

A pre-set amount of grease is delivered only when the equipment is in operation, avoiding the possibility of over lubrication and waste

Cost Savings

- ▶ There is no need to replace the battery pack for up to 5 years
- ▶ Substantial savings from the use of replaceable grease pouches and battery packs (Service Pack)
- ▶ Perfect solution to prolong machinery life by preventing under or over-lubrication and optimize maintenance efficiency

Other Features

- ▶ Various dispensing settings & grease pouch volumes to suit a wide range of industrial applications
- ▶ Easy to adjust dispensing periods, even while in operation
- ▶ Transparent container for easy visual inspection of remaining lubricant

Typical Industries and Applications



- Motors & pumps
- Equipment that is shut down or in stand-by for long periods of time
- Electronics & automobiles
- Cleanrooms where over-lubrication is critically monitored

Product Specifications

Grease Pouch Capacity

60ml / 500ml (pre-set)
125ml / 250ml (capacity setting available)

Power Supply

External Power Supply (*Backup Battery Required)

- 1) VAC
AC-DC ADAPTOR (100~220V)
- 2) VDC
DC-DC CONVERTOR (12V~24V)

Operating Pressure

30~60bar (435~870psi)

Operating Temperature

Standard Alkaline Battery :
-15°C~60°C (5°F~140°F)
Optional Lithium Battery :
-40°C~60°C (-40°F~140°F)

Dispensing Periods

60ml : 1~12 month
125ml / 250ml : 1, 2, 3, 6, 12 month & H (15 days)
500ml : 1, 2, 4, 6, 12, 18, 24 month & H (15 days)

* MSP is also available for oil applications

Single Point Remote Installation

Max. 10m (33ft) with Ø6 tube

Multi-Point Installation

Max. 6m (20ft) with Ø6 tube
(Up to 8 lube points)

Dispensing Volume Size

0.34ml/stroke (@20°C/68°F)

Relay Specifications



Voltage Rate Input Range

VAC : 100~220V, 0.5A 50~60Hz
VDC : 12V~24V

Voltage Rate Output Range

5.0V, 2A

Power ON Indicator

Red LED

Power Supply Dimensions

85 mm (D) x 49 mm (W) x 32 mm (H)

Wire Length From Power Supply

Input : 1m (3.3ft) Output : 4.5m (15ft)

Wire Length From MSP Lubricator

90mm (3.5in)

**HIGHLY EFFICIENT & COMPETITIVE
DESICCANT BREATHER**

Pulsarlube **AIR**

PULSARLUBE® AIR AB-PX SERIES

Advanced protection even in high humidity & dust areas

Whenever pressure or fluid levels inside a reservoir fluctuates, airborne contaminants such as dust/dirt, moisture, and oxygen are drawn in through the breather vent port from the ambient environment.

These unwanted contaminants can expedite oxidation and corrosion, increase humidity leading to condensation and free water accumulation, cause oil emulsion, and lead to sludge or acid formation. This in turn results in frequent fluid and filter changes, increased operating and maintenance costs, and shortened equipment life.

Using desiccant breathers on reservoirs containing hydraulic fluid, oil, or other fluids can prevent possible contamination by filtering out dust, other airborne contaminants, and moisture.

The Pulsarlube PX Breather is a proactive and effective maintenance countermeasure to keep the entire fluid system clean and to extend the storage and service life of fluids, even in high humidity and dust areas.



Protection Against Ambient Air Exchange

Intake check valves limit air exchange with the environment until air flow is required, extending desiccant service life.



Superior Filtering Performance

The combination of an activated carbon filter, advanced electret filter, and baffle plate offers effective contamination control.



Extended Service Life

A larger volume of silica gel provides higher adsorption rates over comparable competitor products.



Longer Shelf Life

Premium packaging using a non-permeable, triple layer film guarantees long lasting shelf life.



Easy Maintenance

Simply replace the breather when the orange silica gel turns dark green.

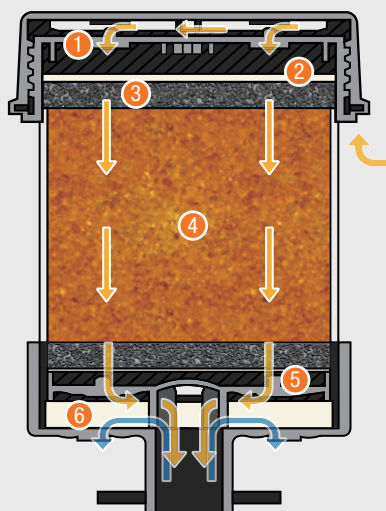


Design & Features

Filters airborne contaminants

Dehumidifies

Prevents oil mist contamination
from reservoir



- 1 Check Valve**
prolongs life of desiccant by limiting ambient air exchange until air flow is required
- 2 Electret Filter (particle size > 2µm)**
captures airborne dirt, dust, and other undesirable particles by electrostatic charge
- 3 Activated Carbon Filter**
removes fumes and odor
- 4 Desiccant Silica Gel**
turns from orange to green as it adsorbs moisture from incoming air
- 5 Baffle Plate**
protects silica gel from oil mist contamination by providing a one-way barrier between the reservoir and silica gel
- 6 Oil Absorbent Foam**
absorbs oil mist drawn in from reservoir



Typical Industries and Applications



· Hydraulic Reservoirs



· Industrial Gearboxes



· Transformers



· IBC & Fluid Tanks



· Mobile Equipment



Product Specifications

	AB-PX100	AB-PX101	AB-PX102
Diameter	5.54" / 14.07cm	5.54" / 14.07cm	5.54" / 14.07cm
Height	5.51" / 14cm	6.77" / 17.2cm	10.28" / 26.1cm
Silica Gel	440g	660g	1320g
Mounting Connection	1" slip fit	1" slip fit	1" slip fit
Max. Adsorption Capacity	160ml	279ml	538ml
Max. Air Flow	20cfm	20cfm	20cfm
Max. Reservoir Fluid Flow	150gpm	150gpm	150gpm
Type of Desiccant	100% Silica Gel	100% Silica Gel	100% Silica Gel

▼ From the left AB-PX102, 101, 100



NOTE

A variety of adaptors are available to connect Pulsarlube Air to most reservoir ports.



Series
BT60/BT120/BT240



022-190186



KLT Co., Ltd.
Model:
BT60 CMIIT ID: 2019DJ0846
BT120 CMIIT ID: 2019DJ0847
BT240 CMIIT ID: 2019DJ1090

IP65

Patent Nr: 10-2010757



New Generation, Bluetooth-Enabled
Automatic Lubricator.



Pulsarlube **BT**

Features & Advantages

Convenient Lubrication Management

Conveniently control and monitor lubricators using the Pulsarlube mobile app
Various grease pouch capacities and lubricant types available

Enhanced User-Friendliness

Straightforward installation and operation
Easy to use app interface

Integrated DB Management

Keep track of operational status of all paired lubricators by using the integrated database

Safe Working Environment

Remotely monitor lubricator status in hazardous and inaccessible work areas
via mobile app in close proximity

Outstanding Performance

- ▶ Bluetooth 4.1 enables connections up to 20m (66ft) away
- ▶ High output pressure enables remote installation up to 6m (20ft)
- ▶ Ingress Protection Rating : IP65

Typical Industries and Applications



- Hard to reach areas where maintenance access is not easy
- Hazardous locations where it is not safe to perform routine maintenance
- Where bearings are located in close proximity
- Where lubrication management is tedious and inconvenient

Overview



Product Specifications

Grease Pouch Capacity

60ml / 120ml / 240ml (pre-set)

Power Supply

DC 4.5V Battery Pack (replaceable)
Standard : Alkaline Battery
Optional : Lithium Battery

Operating Pressure

30~60bar (435~870psi)

Operating Temperature

Standard Alkaline Battery :
-15°C~60°C (5°F~140°F)
Optional Lithium Battery :
-40°C~60°C (-40°F~140°F)

Dispensing Periods

1~12 month

Single Point Remote Installation

Max. 6m (20ft) with Ø6 tube

Multi-Point Installation

Max. 3m (10ft) per point with Ø6 tube
(Up to 8 lube points)

Dispensing Volume

0.34ml/stroke (@ 20°C/68°F)

Product Certifications & IP Code

CE / KC / FCC / SIG / NCC / RCM /
SRRC / NBTC / ICASA / J-MIC / IP65

Bluetooth Range

5~20m depending on installation environment

Bluetooth Specifications

Bluetooth 4.1 (class 2)

Series

EXPL60/EXPL120/EXPL240/EXPL480



CE   IECEx NEPSI ETL IP65  

High Reliability & Stability.
Advanced Explosion Proof Capability.



Pulsarlube **EXPL**



Features & Advantages

Global Hazardous Locations Certifications

- ▶ IECEx : Ex ic IIB T4 Gc (International)
- ▶ ATEX : II 3 G Ex ic IIB T4 Gc (EU)
- ▶ KCs : Ex ic IIB T4 (KR)
- ▶ NEPSI : Ex ic IIB T4 Gc (CN)
- ▶ ETL : Class I, Division 2, Groups A, B, C, & D, T4
Class II, Division 2, Groups F, G, T4 (NA)

High level of Ingress Protection

IP65 - dust tight and protected against water jets

Applications

Specifically designed for safe use in highly hazardous locations containing flammable medium in the air (ignitable gases, vapors, and dust)

Multi-Point Installation

Up to 8 lube points using a Lithium battery pack with max 60bar (870psi) operating pressure



Typical Industries and Applications



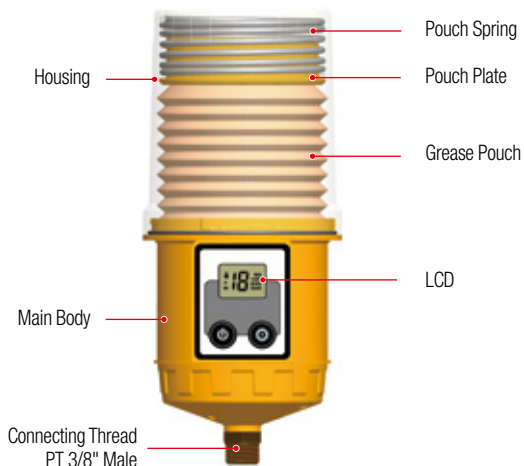
- Electric motors & pumps used in petrochemical plants, transportation of crude oil/natural gas, hot/cold rolling equipments in steel industry, cooling water treatment facility in power plants, etc.
- Applications in environments where flammable gases or vapors are present in quantities sufficient to produce explosive or ignitable mixtures
- Cooling tower pumps & motors at hydroelectric, thermal and nuclear power plants



Overview



Product Specifications



Grease Pouch Capacity

60ml / 120ml / 240ml / 480ml (pre-set)

Power Supply

DC 4.5V Battery Pack (replaceable)
Standard (T4) : Alkaline Battery
Optional (T5) : Lithium Battery
* 480ml : Lithium Battery Pack

Operating Pressure

30~60bar (435~870psi)

Operating Temperature

-15°C~50°C (5°F~122°F)
* Below 0°C (32°F) : Lithium Battery

Dispensing Periods

60ml : 1~12 month
120ml~480ml : 1, 2, 3, 6, 9, 12 month

Single Point Remote Installation

Lithium Battery : Max. 6m (20ft) with Ø6 tube

Multi-Point Installation

Lithium Battery : Max. 3m (10ft) with Ø6 tube
(Up to 8 lube points)

Dispensing Volume Size

0.34ml/stroke (@ 20°C/68°F)

Product Certifications & IP Code

ATEX / IECEx / KCs / ETL / NEPSI / CE / IP65

Series
Mi60/Mi125/Mi250



Intelligent Integration of a Vibration Sensor Allowing
Synchronization to Application.



Pulsarlube **Mi**

Features & Advantages

Vibration Sensor

Lubricator operates only when vibration is detected on the installed application

Cost Savings

Substantial savings from the use of replaceable grease pouches and battery packs (Service Pack)

Easy Installation

Place the magnetic vibration sensor on any flat metal surface

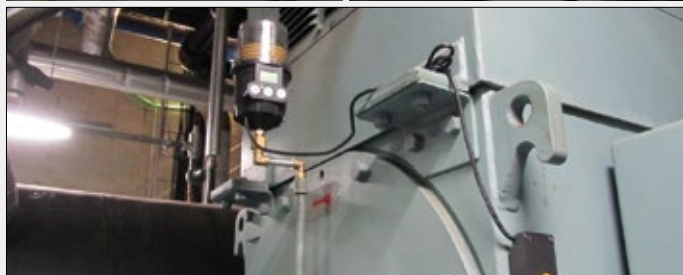
More Reliable & Precise Lubrication

A pre-set amount of grease is delivered only when the equipment is in operation, avoiding the possibility of over lubrication and waste

Other Features

- ▶ Easy to adjust dispensing periods in operation
- ▶ Easy to install in hazardous & confined areas
- ▶ Transparent container for easy visual inspection of remaining lubricant

Typical Industries and Applications



- Motors and pumps from municipal water & waste water treatment facilities
- Paper mills, steel mills and cement plants where water & excessive contaminants exist
- Electric motors, pumps, blowers and fans
- Applications where synchronized lubricators cannot be wired to an external power supply or PLC

Overview



Product Specifications

Grease Pouch Capacity

60ml / 125ml / 250ml
(capacity setting available)

Power Supply

DC 4.5V Battery Pack (replaceable)
Standard : Alkaline Battery
Optional : Lithium Battery

Operating Pressure

30~60bar (435~870psi)

Operating Temperature

Standard Alkaline Battery :
-15°C~60°C (5°F~140°F)
Optional Lithium Battery :
-40°C~60°C (-40°F~140°F)

Dispensing Periods

1~12 month

Single Point Remote Installation

Max. 1m (3.3ft) with Ø6 tube

Multi-Point Installation

Max. 1m (3.3ft) with Ø6 tube
(Up to 2 lube points)

Dispensing Volume Size

0.34ml/stroke (@20°C/68°F)

Product Certifications & IP Code

CE / KC

Vibration Detector

Piezoelectric Cantilever-type Film Sensor
Adjustable Sensitivity Range
Connection Wire Length : 1.2m

Service Life of Battery Pack

60ml / 125ml : Up to 2 years
250ml : Up to 1 year 6 months

Product Dimensions

183mm (H) x 91mm (Ø)
*Excludes Vibration Sensor

Series
PLC60/PLC120/PLC240/PLC480



CE IP65



PLC Controlled. Remotely Monitored.
Greater Lubrication Efficiency.



Pulsarlube **PLC**



Features & Advantages

PLC Integration

Programmed to deliver fresh lubricant upon receiving a signal from the PLC

Consistent Lubrication

Precise lubrication on demand

Multi-Point Installation

Up to 8 lube points using Ø6 tube, Max. 6m (20ft) per point

High Output Pressure

30 ~ 60bar (435 ~ 870psi)

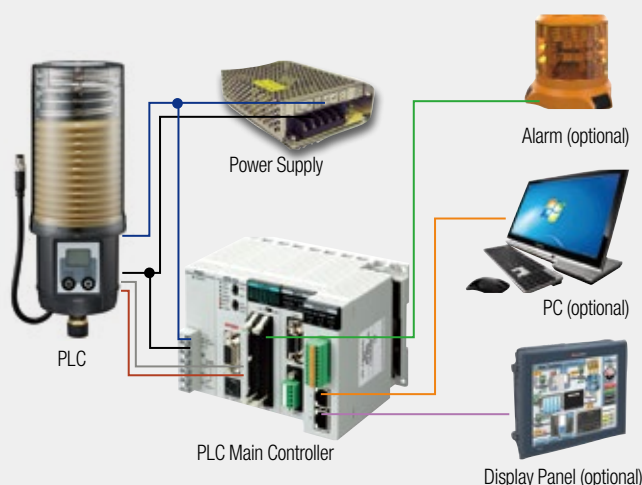
User-Controlled Lubrication

The user can program the dispensing rate based on the operating time of the equipment (INTERVAL type)

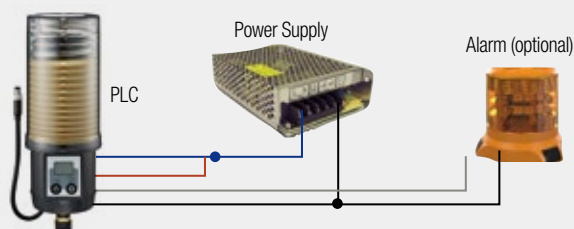


PLC MONTH & INTERVAL TYPE Wire Connection Instructions

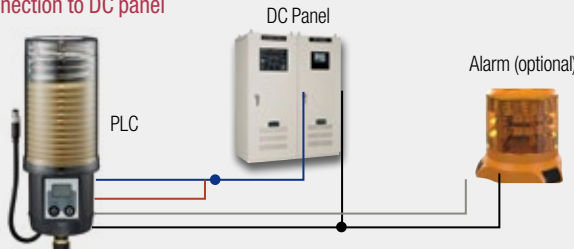
Applicable for both MONTH TYPE & INTERVAL TYPE



Connection to External Power Supply (DC Adapter for MONTH type only)



Connection to DC panel



Overview



Product Specifications



Grease Pouch Capacity

60ml / 120ml / 240ml / 480ml (pre-set)

Power Supply

9~36V DC (DC/DC Converter included)

Operating Pressure

30~60bar (435~870psi)

Operating Temperature

-20°C~60°C (-4°F~140°F)

Dispensing Periods

MONTH type : 1~12 month
INTERVAL type : 1, 2, 3...6 Mode

Single Point Remote Installation

Max. 10m (33ft) with Ø6 tube

Multi-Point Installation

Max. 6m (20ft) with Ø6 tube
(Up to 8 lube points)

Dispensing Volume Size

MONTH type : 0.34ml/stroke (@20°C/68°F)
INTERVAL type :
0.34ml x Mode selected (@20°C/68°F)

Product Certifications & IP Code

CE / KC / IP65

Output Voltage

Max. 1A (for alarm)

Product Type

Signal (MONTH type / INTERVAL type)

PLC Input/Output Types

Available in PNP or NPN

Dispensing Volume on Purge Mode

2ml (6 strokes)

Series
EXP60/EXP120/EXP240/EXP480



CE Ex IECEx NEPSI IP65



Improved High Reliability & Stability
in Hazardous Areas.



Pulsarlube **EXP**

Features & Advantages

Global Hazardous Locations Certifications

- ▶ IECEx : Ex ic IIC T5/T4 Gc (International)
- ▶ ATEX : II 3 G Ex ic IIC T5/T4 Gc (EU)
- ▶ KCs : Ex ic IIC T5/T4 (KR)
- ▶ NEPSI : Ex ic IIC T5/T4 Gc (CN)

High level of Ingress Protection

IP65 - dust tight and protected against water jets

Applications

Specifically designed for safe use in highly hazardous locations containing flammable medium in the air (ignitable gases, vapors, and dust)

Multi-Point Installation

Up to 8 points using a Lithium battery pack with max 60bar (870psi) operating pressure

Other Functions

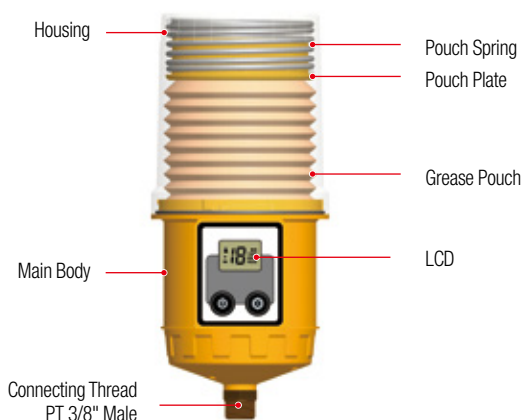
- ▶ Selectable grease pouch capacity & dispensing periods suitable for installations
- ▶ Auto Lock Out mode to prevent unintentional mode changes
- ▶ Easy to check LCD displays with backlight function

Typical Industries and Applications



- Electric motors & pumps used in petrochemical plants, transportation of crude oil/natural gas, hot/cold rolling equipments in steel industry, cooling water treatment facility in power plants, etc.
- Applications in environments where flammable gases or vapors are present in quantities sufficient to produce explosive or ignitable mixtures
- Cooling tower pumps & motors at hydroelectric, thermal and nuclear power plants

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Optional (T5) : Lithium Battery
*** 480ml : Lithium Battery Pack**

Operating Pressure

30~60bar (435~870psi)

Operating Temperature

0°C~50°C (32°F~122°F)

Dispensing Periods

60ml : 1~12 month
120ml~480ml : 1, 2, 3, 6, 9, 12 month

Single Point Remote Installation

Lithium Battery : Max. 6m (20ft) with Ø6 tube

Multi-Point Installation

Lithium Battery : Max. 3m (10ft) with Ø6 tube
(Up to 8 lube points)

Dispensing Volume Size

0.34ml/stroke (@ 20°C/68°F)

Product Certifications & IP Code

ATEX / IECEx / KCs / CE / NEPSI / IP65