

# 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

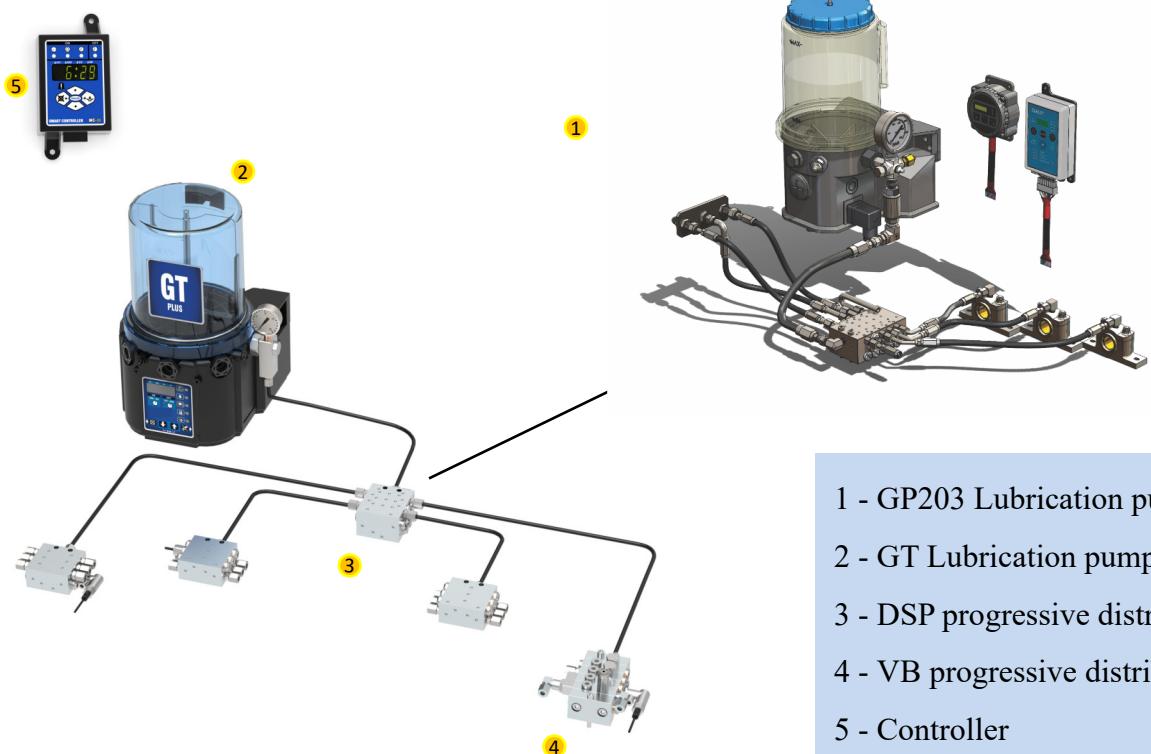
- Manual, pneumatic and electrical pumps
- Main lines
- Progressive distributor
- Pipe to the lubrication point
- Screwed fittings
- Control and monitoring devices

### 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

# GT Lubrication pump

## 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

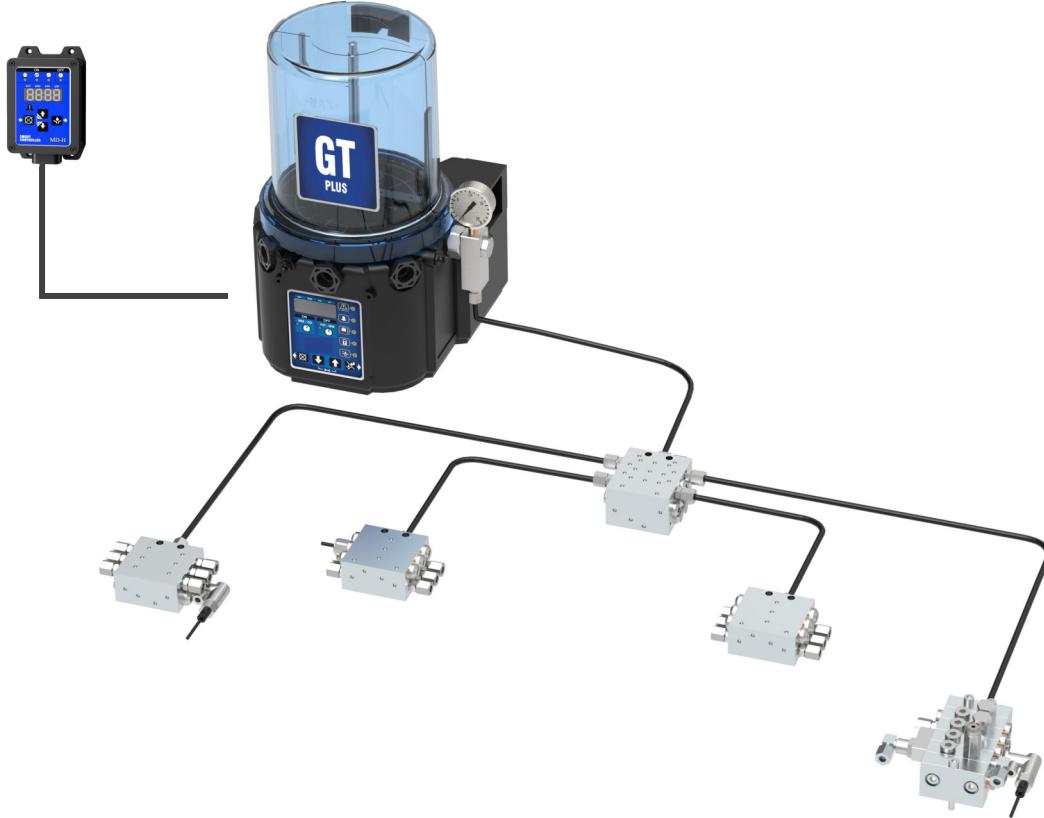
# GT Lubrication pump

## Technical information:

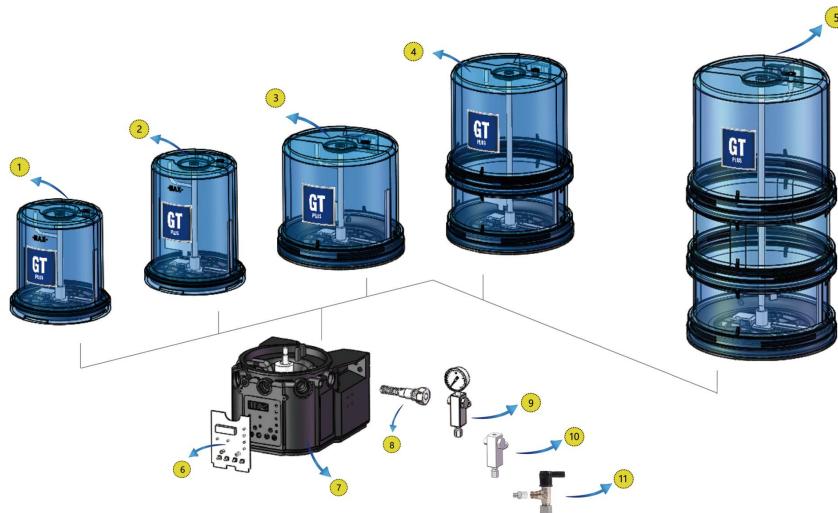
Technical characteristics	
Pump outlets	Max. 5 outlets
Outlet thread	G1/4
Flow per pump unit	2ml、3ml、4ml/min
Operating pressure	Max. 35MPa
Reservoir capacity	2、4、6、8、12L
Lubricants	OIL、000、00、0、1、2
Operating temperatures	-50 - 90°C*

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

## Typical system Layout:

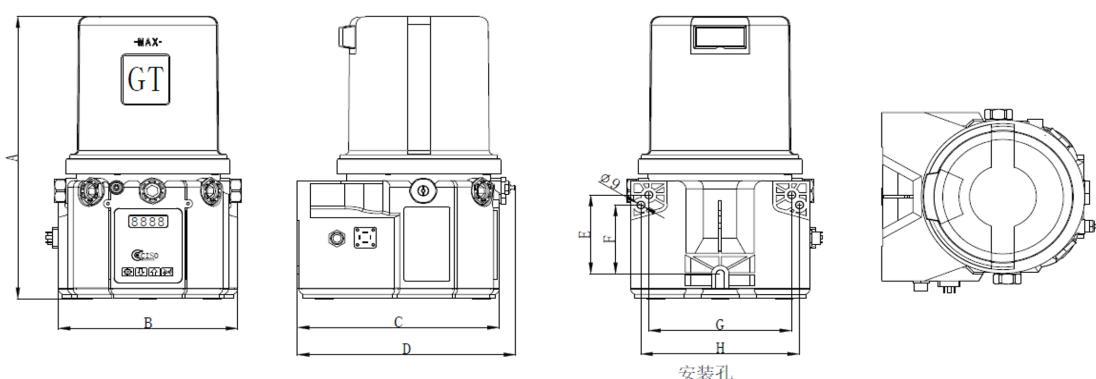


# GT Lubrication pump



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		

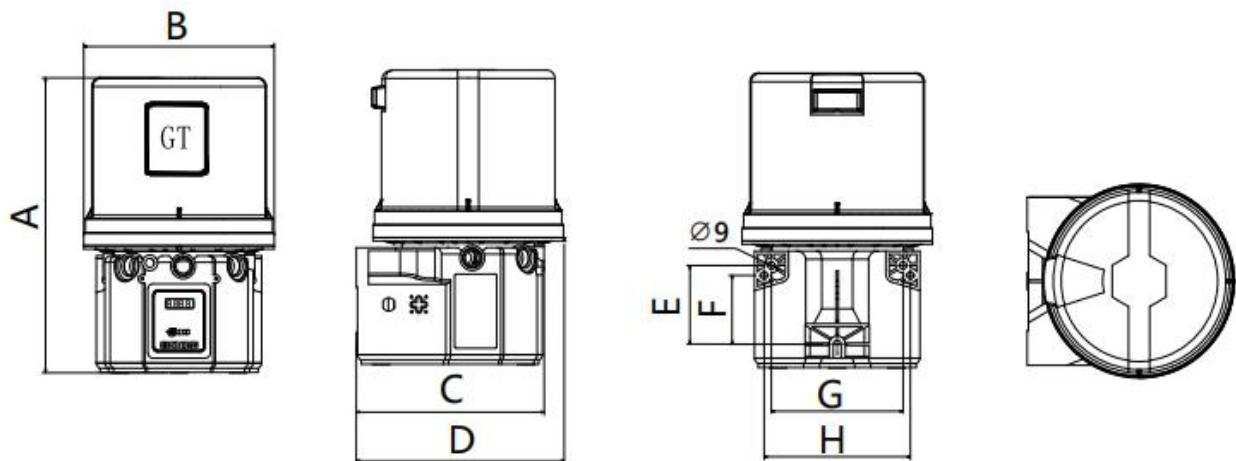
## 2L & 4L Dimensions(mm):



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

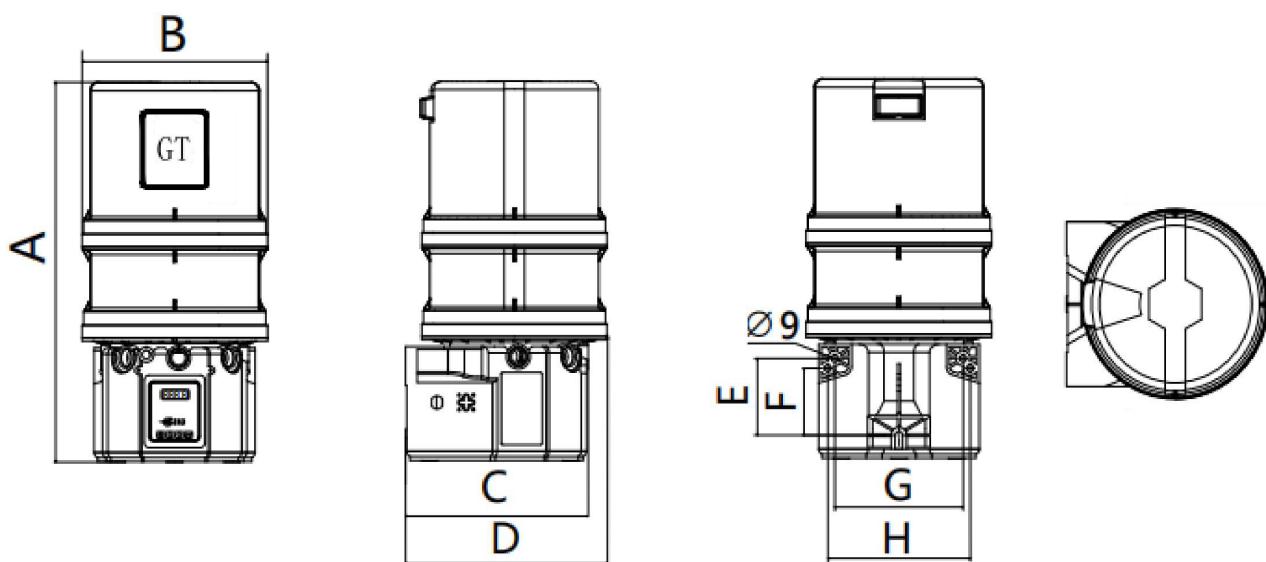
## GT Lubrication pump

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

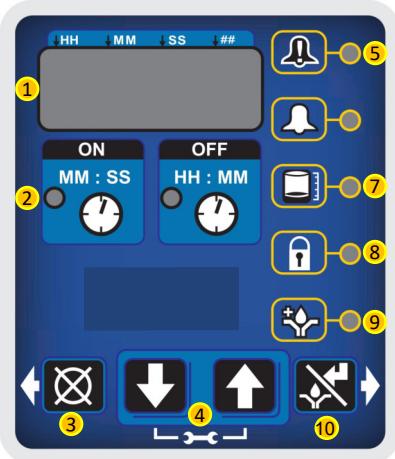
8L & 12L Dimensions (mm):



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

| Low level alarm

| Programs that can be designed

| Accept proximity switch

| It can be password protected

| Excellent shock resistance

| Sound alarm

| 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

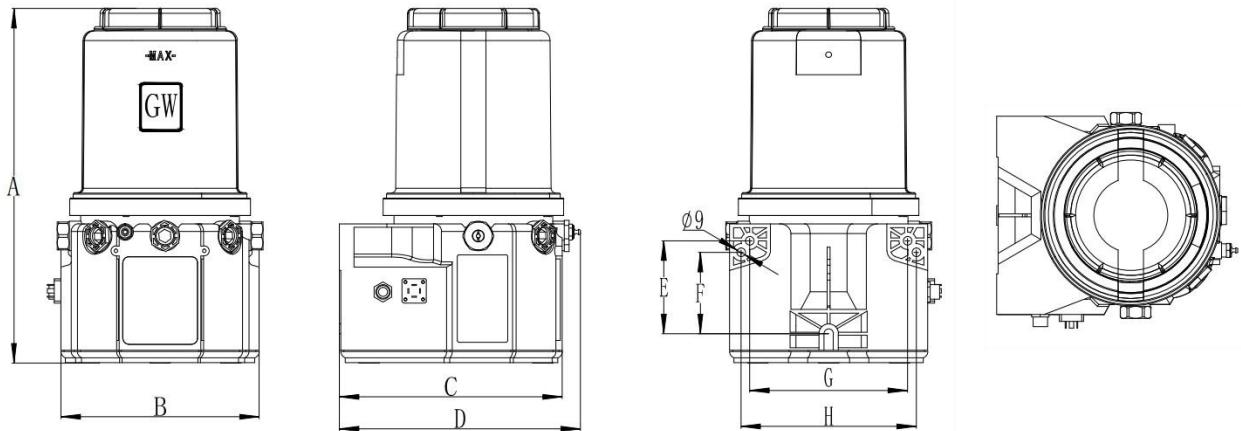


Pump grease, top open cover mode, large diameter injection cap

Applicable: 2L, 6L, 8L, 12L

This top cover method is not suitable for 4L tanks

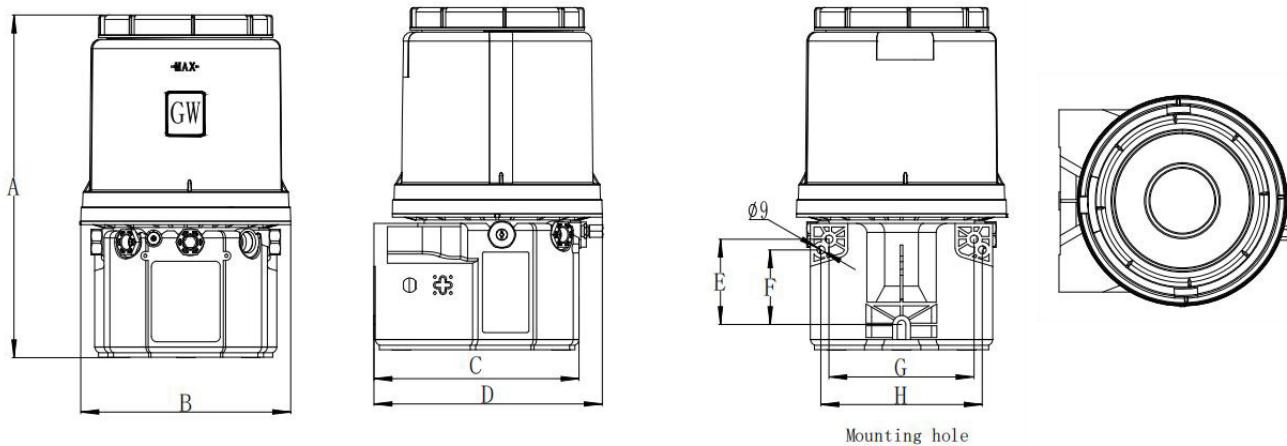
## 2L Dimensions (mm) :



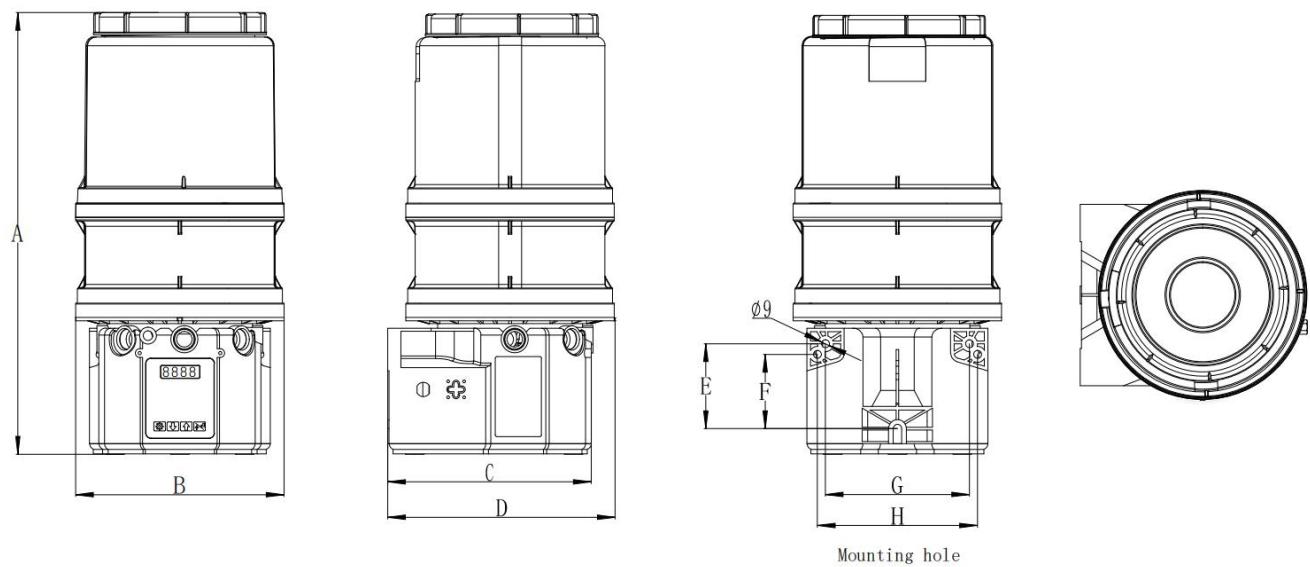
Reservoir	A	B	C	D	E	F	G	H
2L	365	204	231.5	248	95.5	83.5	162.5	182

# 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

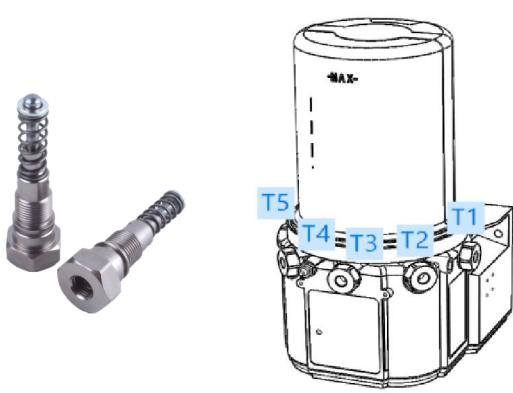
# GT Lubrication pump



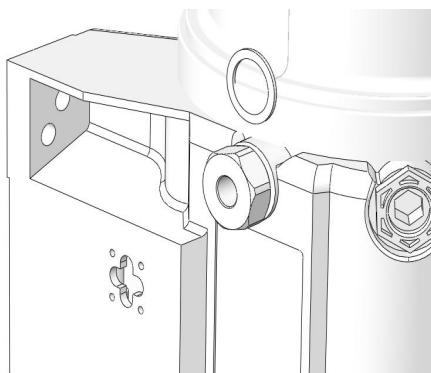
## Ordering information:

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

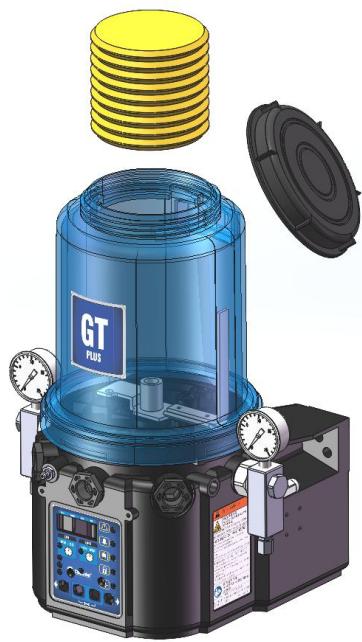
# GT Lubrication pump

Fill grease type:

① with grease gun kits



② with cartridge



③ with hand pump



# GT Lubrication pump

## Ordering information:

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

# 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 singleline 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

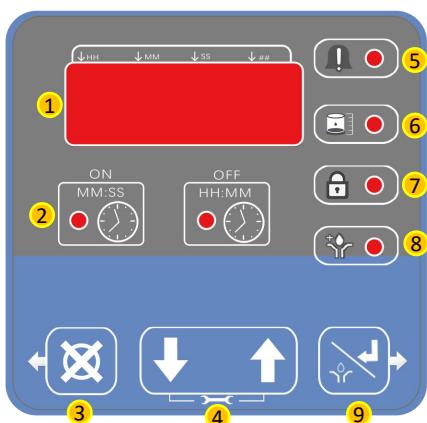
- Reservoir: 1.5L, 2L, 4L
- Voltages: 12VDC, 24VDC, 220VAC
- Pump oil and grease
- Multiple grease filling ways
- Powerful centralized control system
- CE Certification
- Design patent
- IP67

#### 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



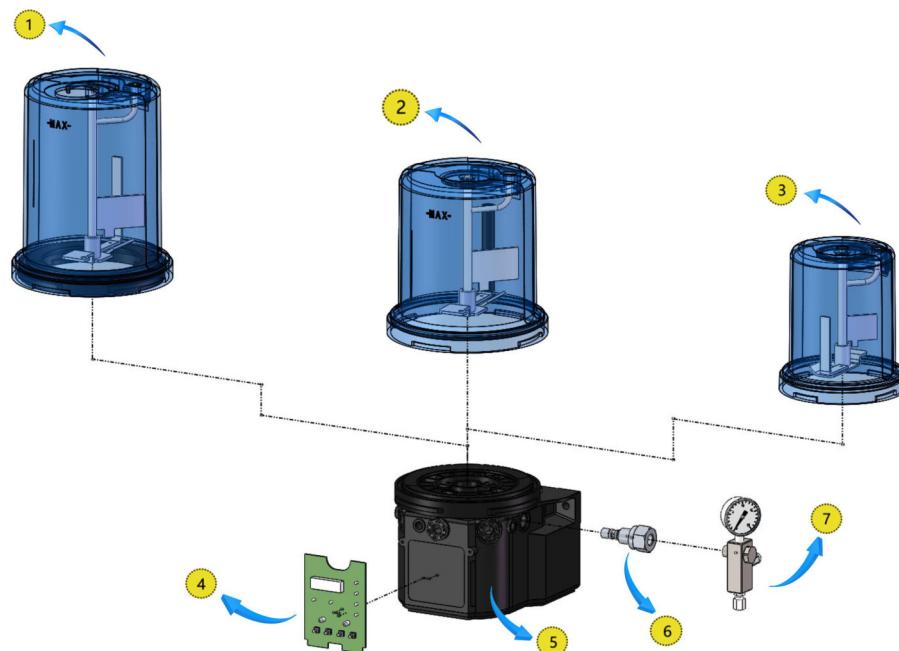
### Basic function

- 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
- 7 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.

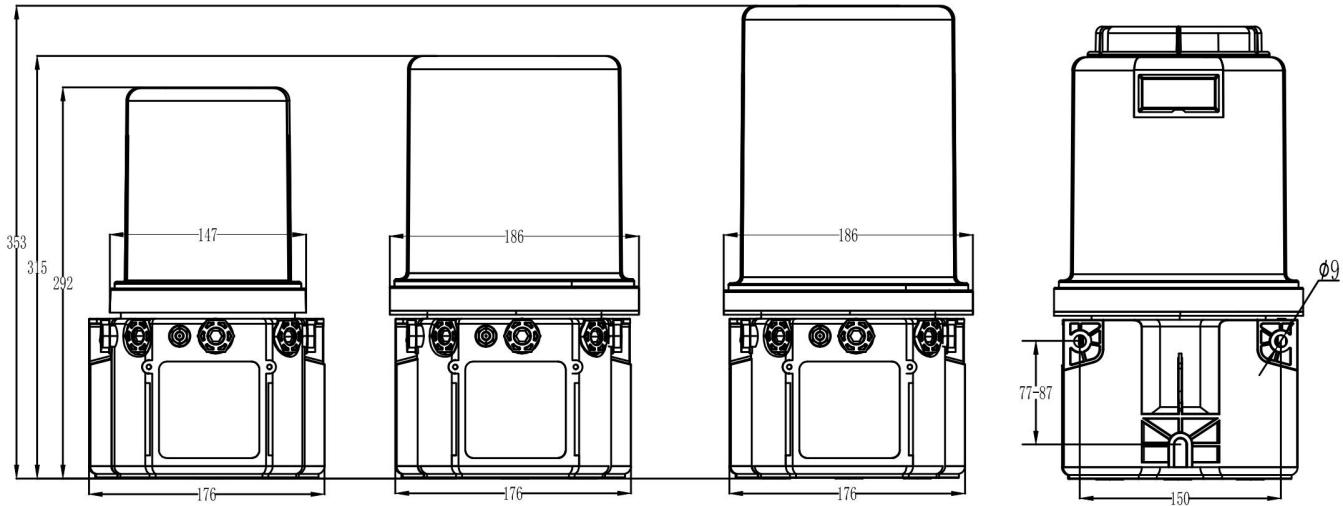


Nº	Part	Nº	Part
1	4L Pump Tank	5	Pump base
2	2L Pump Tank	6	GM Pumping Element
3	1.5L Pump Tank	7	Pump outlet assembly (With pressure gauge)
4	Control panel		

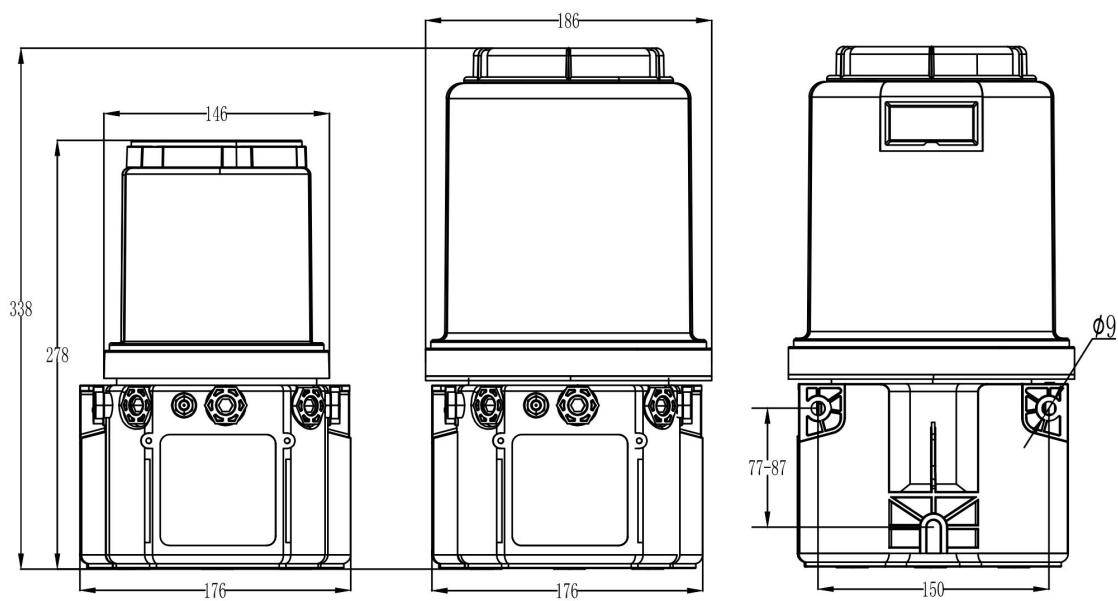
# GM Lubrication pump



## 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-

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

# 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

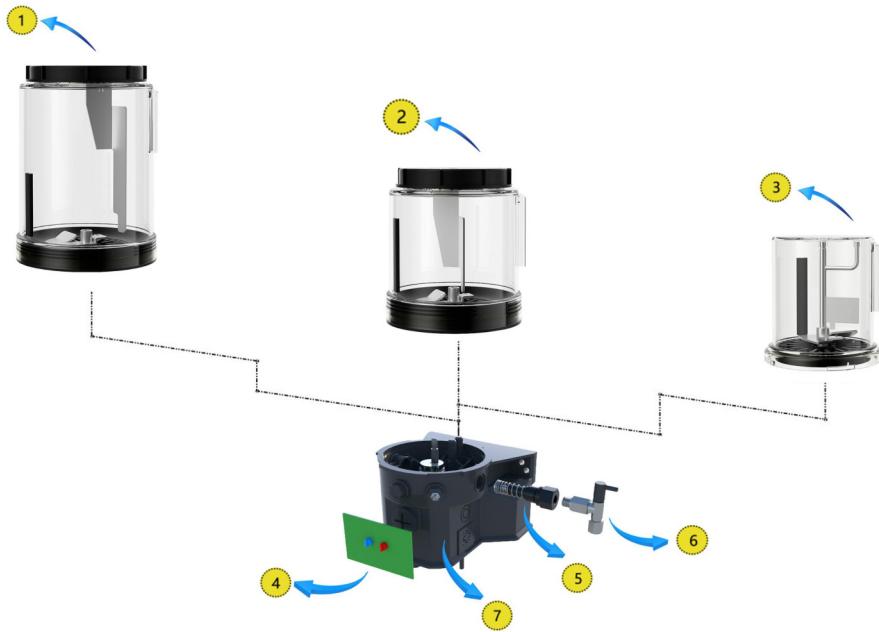
- Small to Medium-Sized Machinery
- Agricultural Machinery
- Wind Power Equipment
- Mobile Equipment
- General Industry
- Construction Machinery

# 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

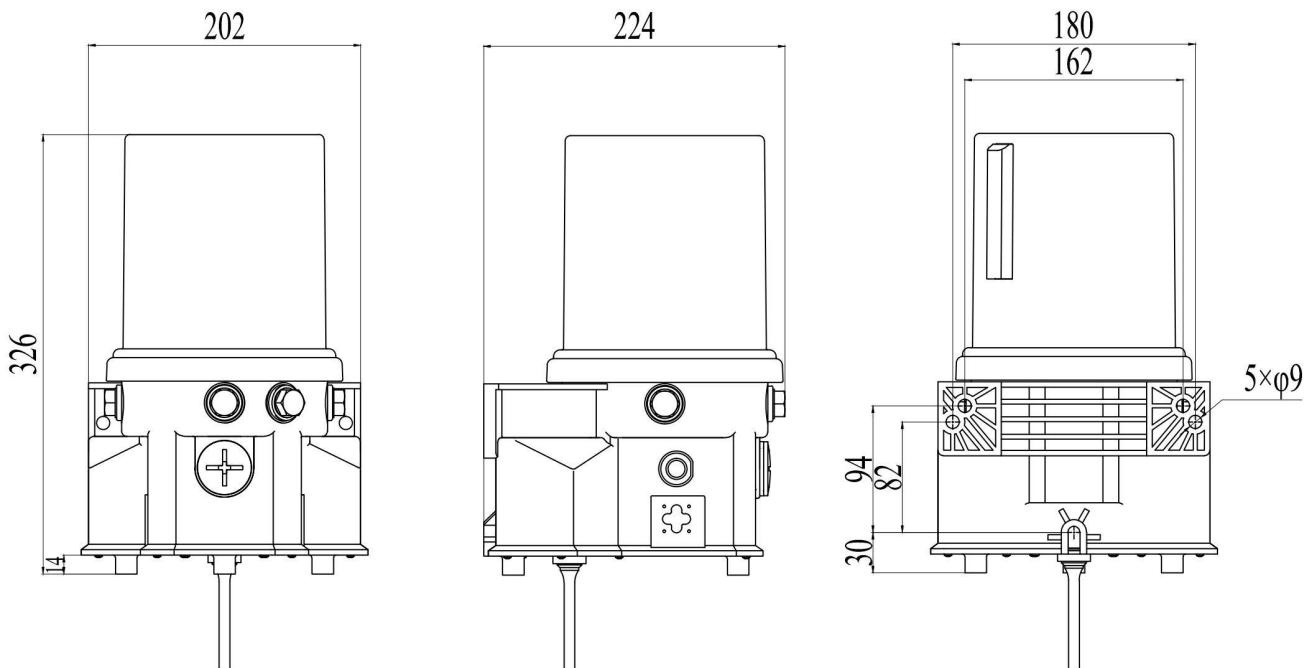
## Main Components



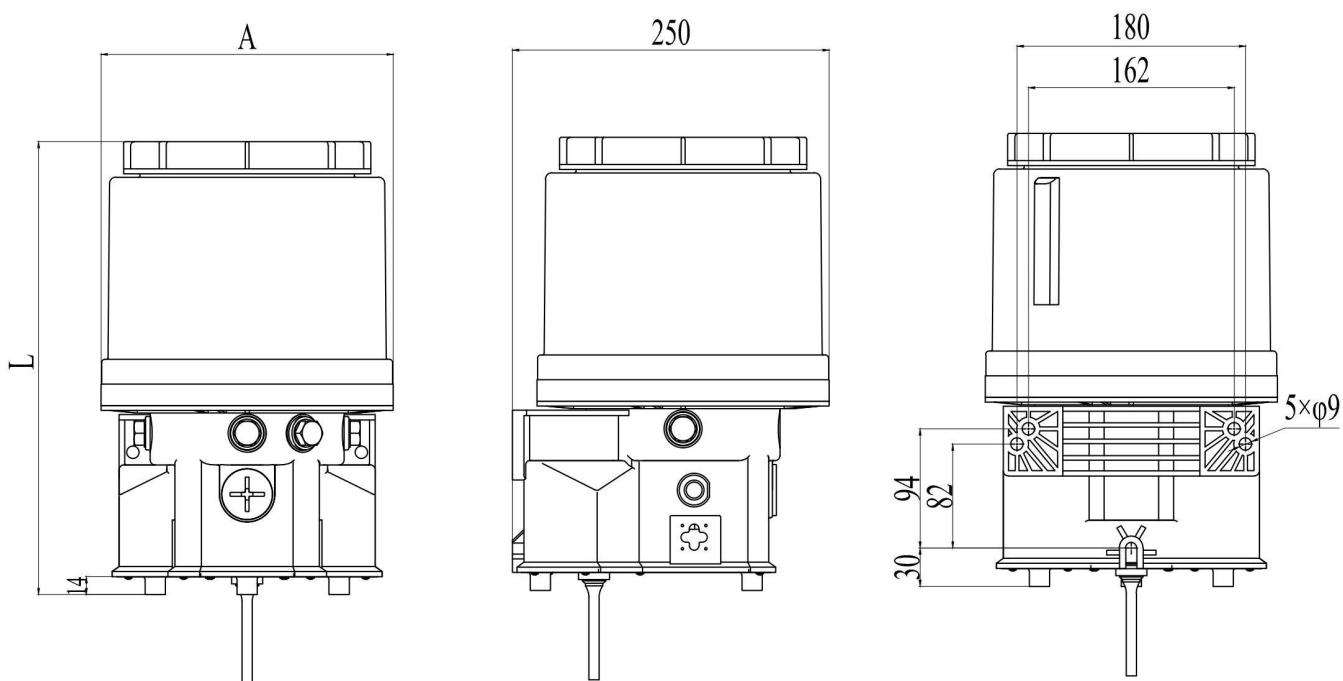
Nº	Part
1	8L Pump Tank
2	4L Pump Tank
3	2L Pump Tank
4	Control panel
5	Pumping Element
6	Relief valve
7	Pump base

# GP203 Pump

## 2L Dimensions (mm)



## 4L & 8L Dimensions (mm) :



Reservoirs	A	L
4L	230.4	357
8L	230.4	460

# GP203 Pump

## Ordering information

25- 

02	02	01	L	G	N
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<b>Reservoir:</b>	
02 = 2L, Without top cover	
04 = 4L, With top cover	
07 = 8L, With top cover	
<b>Voltages:</b>	
01 = DC12V	
02 = DC24V	
<b>Timer:</b>	
X = Without timer	
01 = Pause Time: 6 hours   Operating Time: 6 minutes <sup>1)</sup>	
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	
<b>Low Level:</b>	
L = With level	
M = Without level	
<b>Lubricant:</b>	
O = Oil <sup>2)</sup>	
G = Grease	
<b>Grease Filling Method:</b>	
D = Plug	
N = Grease Nipple	
F = Push-in fitting 80220	

### Note:

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

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

# GP203 Pump

## Accessories

### Transparent reservoir



2L



4L



8L

### Reservoir cover

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

### Pump element



Part Number	Reservoir	Part Number	OD	Flow per pump unit
UF-0101315	4L/8L	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

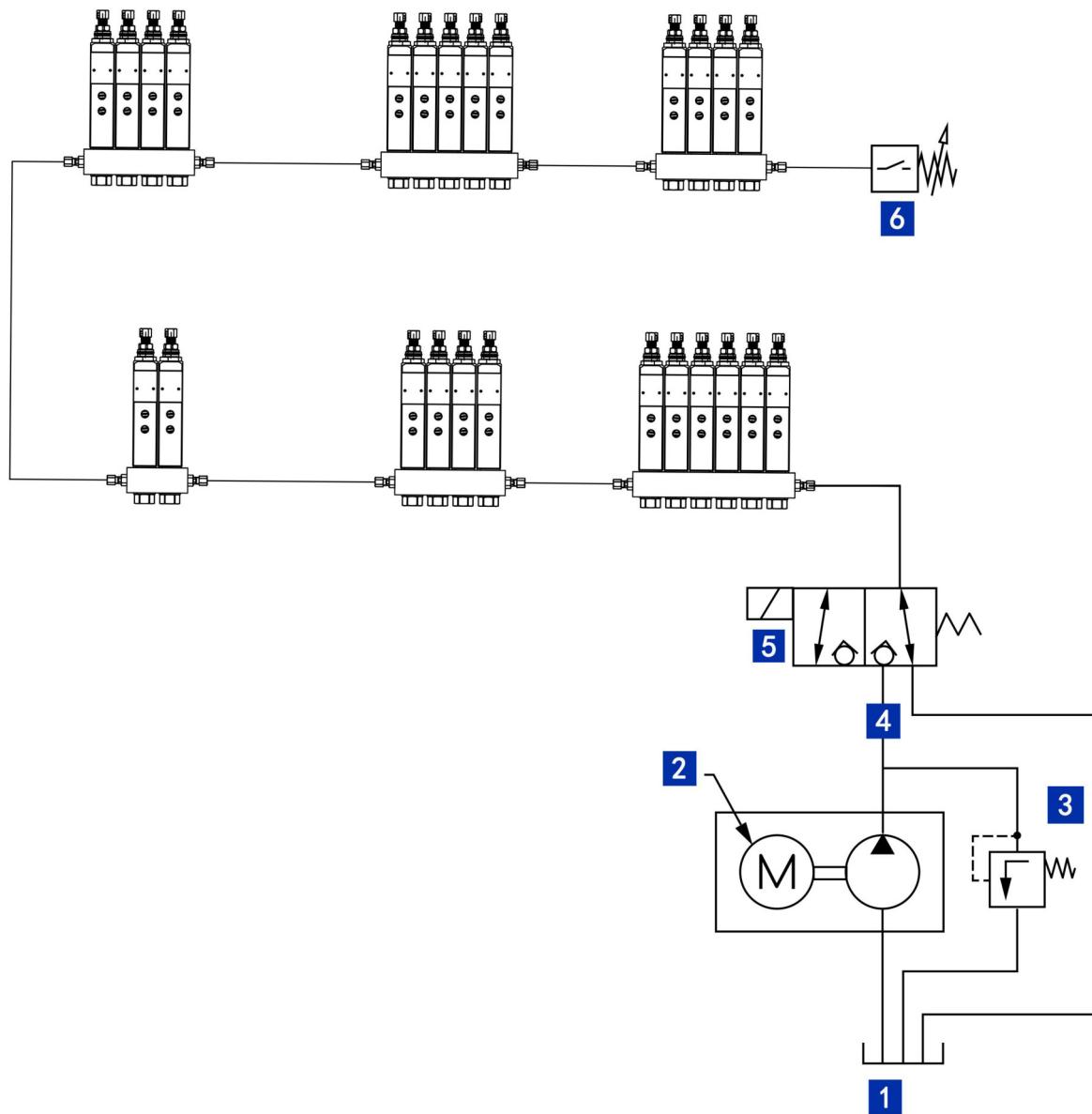
## Technical Data

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

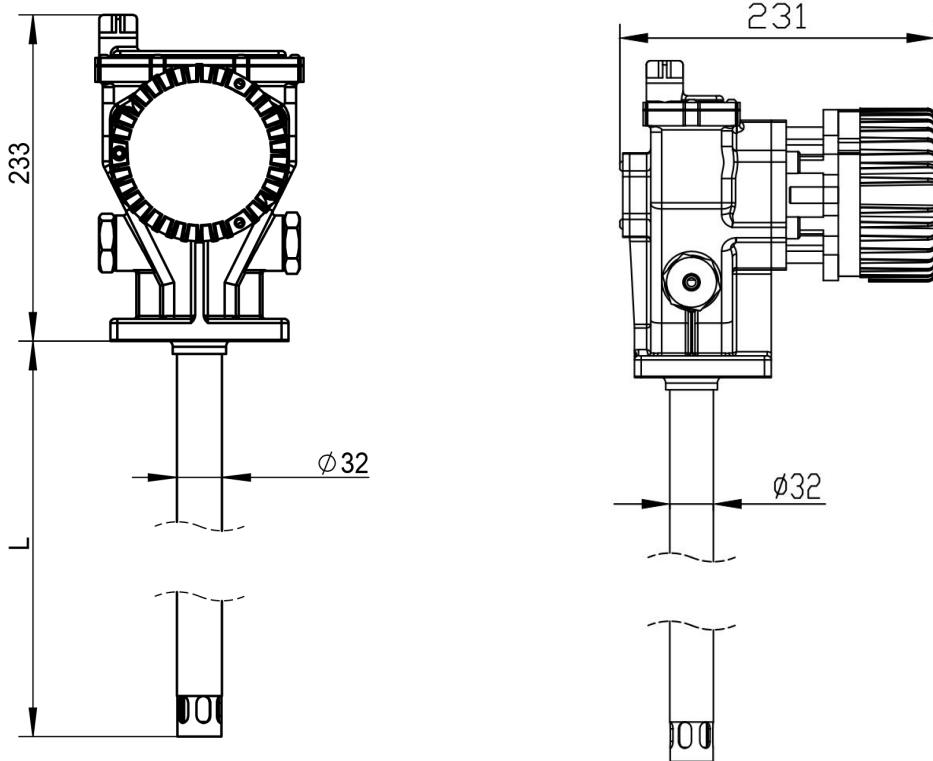
5 Solenoid valve

3 Safety valve

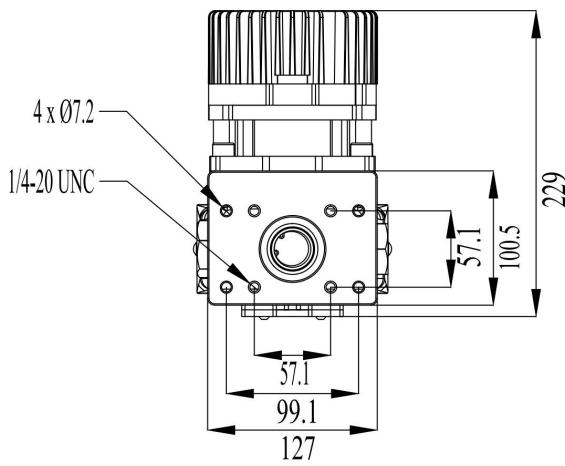
6 Terminal pressure switch

## Dimension (mm)

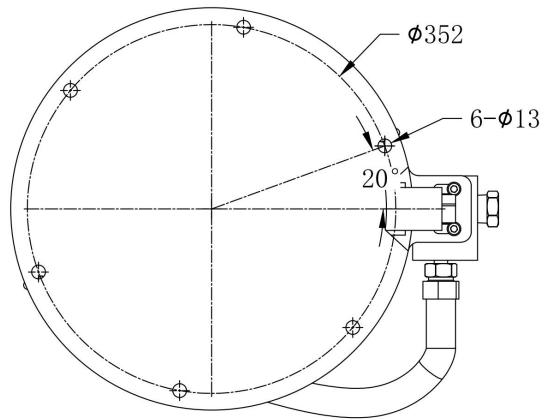
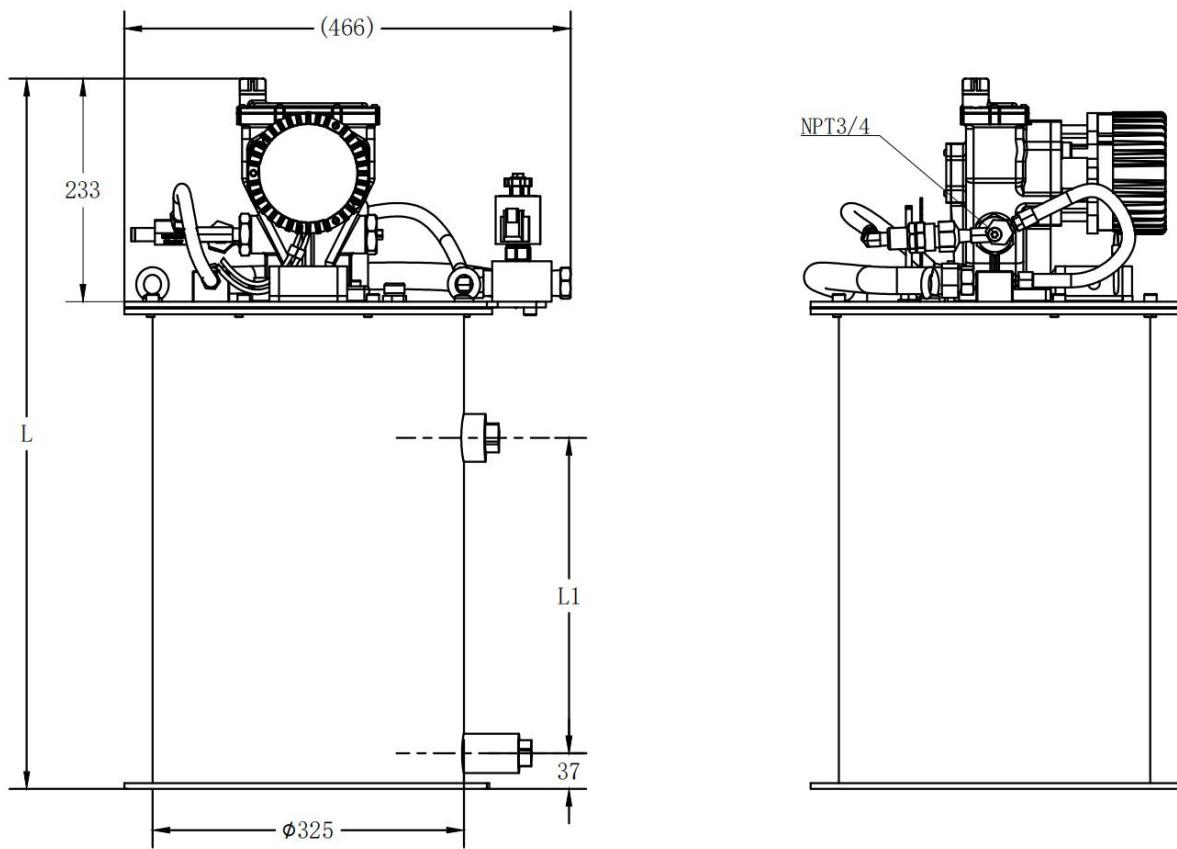
### Bare pump without tank dimension



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

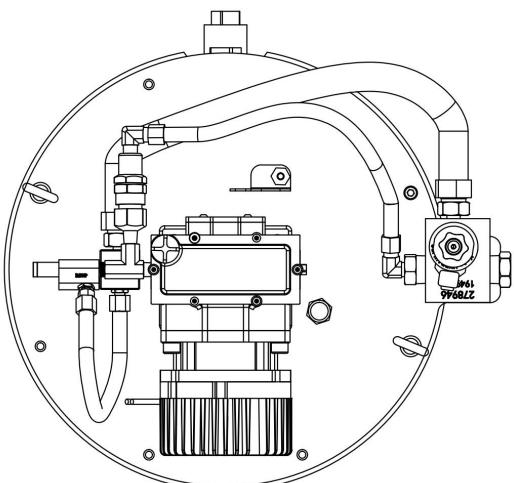
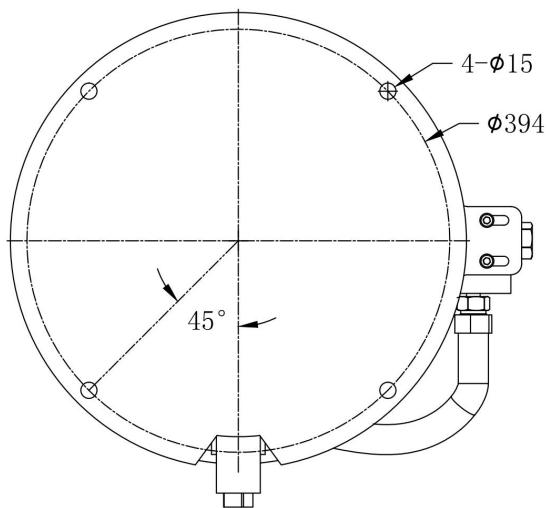
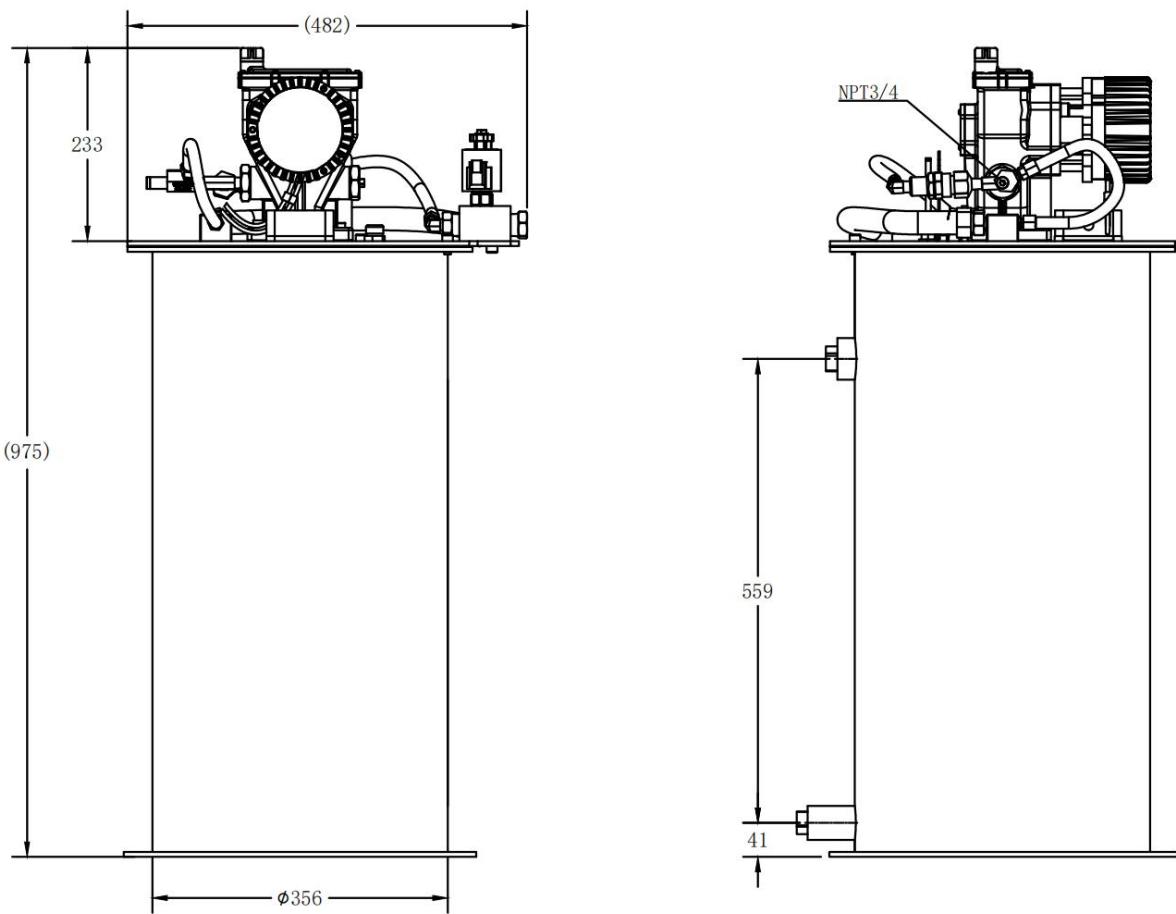


## Dimension with tank



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

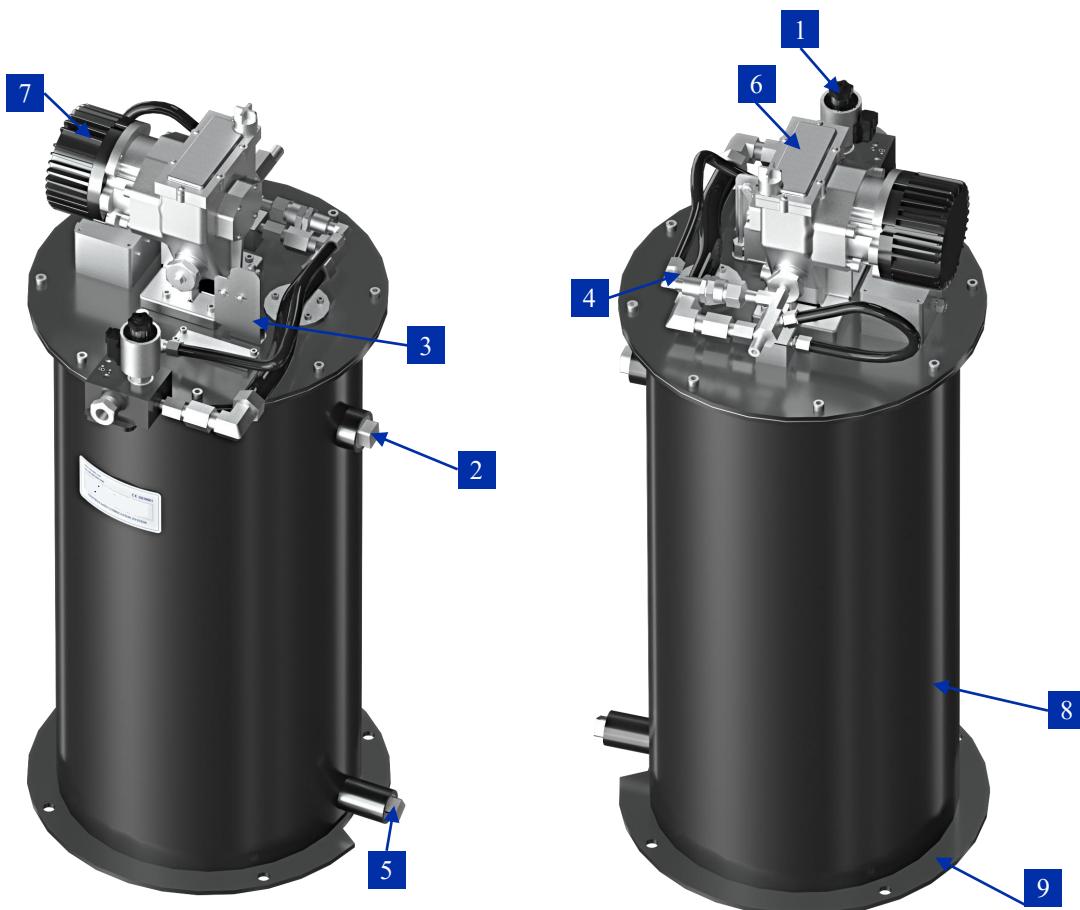


Pump



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

# LUBESTAR



## 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

16KG Cover assembly



16KG Follower plate assembly



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

## Cover、 Follower plate assembly

180KG Cover assembly



Part No

KG

Description

UF-LS0180

180

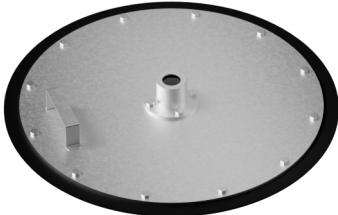
Cover assembly

UF-LS1008

180

Follower plate assembly

## 180KG Follower plate assembly



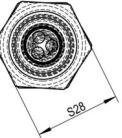
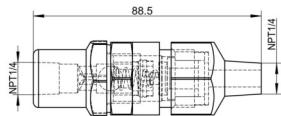
## Outlet check valve assembly

Part No

Thread

UF-LS1005

NPT1/4



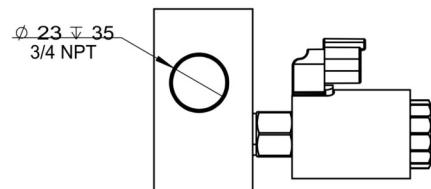
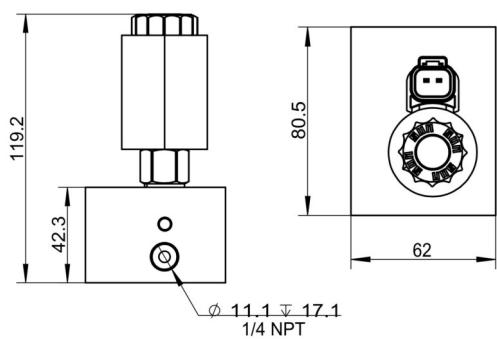
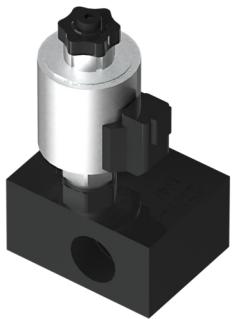
## Solenoid release valve

Part No

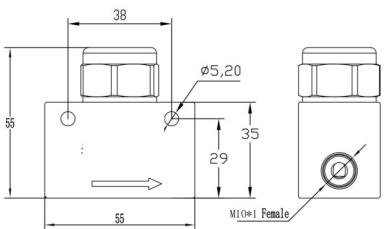
Thread

UF-LS1001

NPT3/4



## Inline Filter

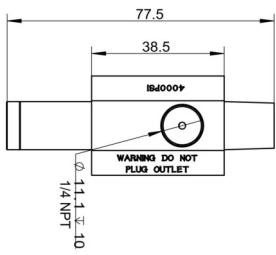
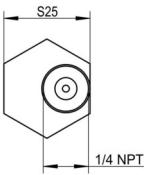


Part No	Accuracy	Thread
---------	----------	--------

UF-FL45180	180µm	M10*1
------------	-------	-------

UF-FL45125	125µm	M10*1
------------	-------	-------

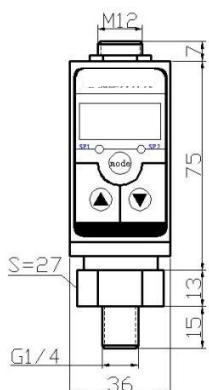
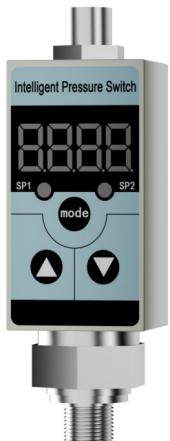
## Safety valve



Part No	Thread	Description
---------	--------	-------------

UF-5FI10	NPT1/4	275bar/4000psi
----------	--------	----------------

## Pressure switch



Part No	Thread
---------	--------

UF-EPW-S1	G1/4
-----------	------

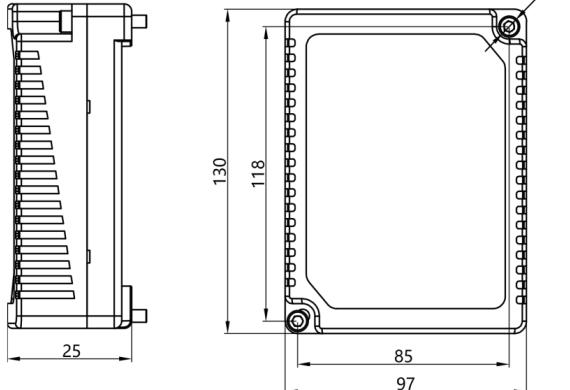
Controller

Model

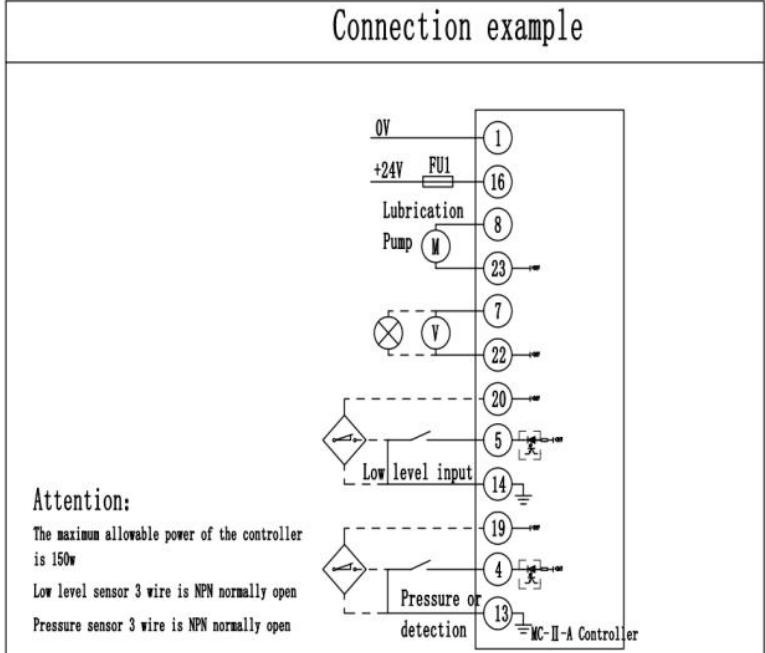
UF-MC-II-A

wiring

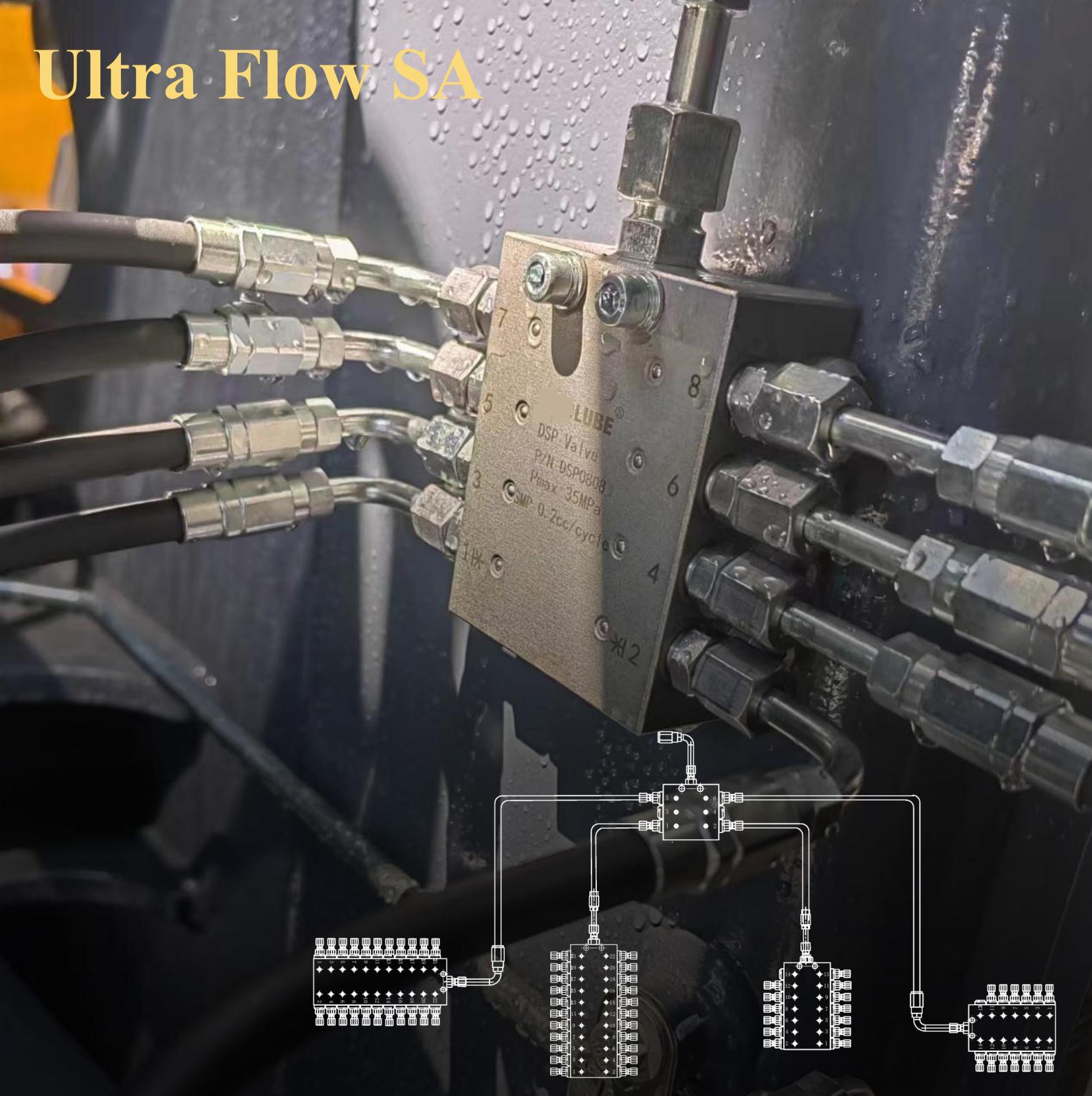
Controller Plug	Pin Function Description	
16	+24V	Power Supply +
1	0V	Power Supply -
23		Motor +
8		Motor -
22		Electromagnetic valve + / lubrication indicator +
7		Electromagnetic Valve - / lubrication Indicator -
20		Low-level power +
5		Low-level signal
14		Low-level power -
19		Sensor power +
4		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 cm<sup>3</sup> 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

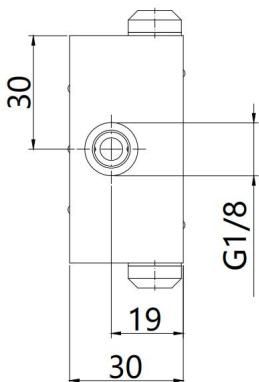
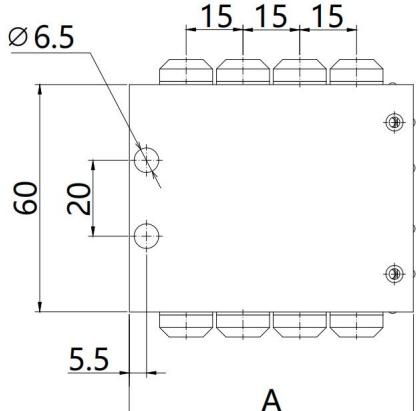
- Sizes up to 22 outlets
- High operating pressure
- Available in different materials
- Exact lubricant metering
- Unique internal crossporting technology
- Optionally equipped with visual monitoring pin or with electrically monitored piston detector

### Applications

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

# DSP Distributor

## Dimensions:



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

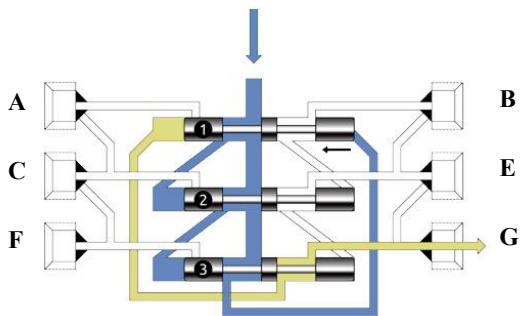
## Product feature:

### 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

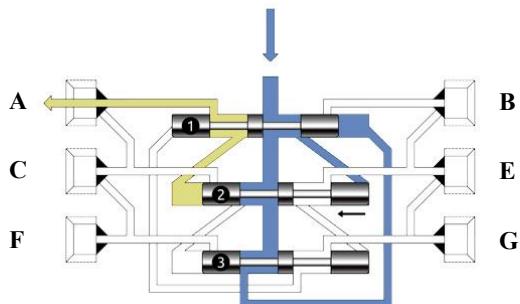
Outlets can be combined, Outlet \* 1 and \* 2 should never be closed.

# DSP Distributor



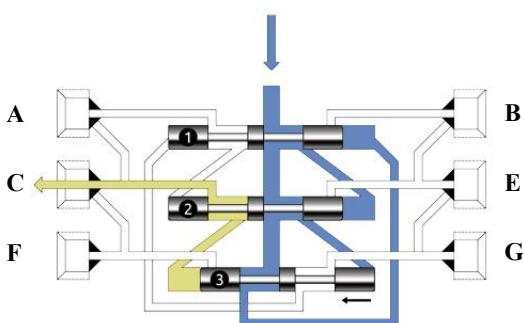
1

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



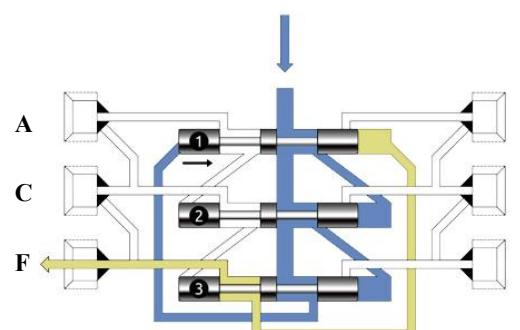
2

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



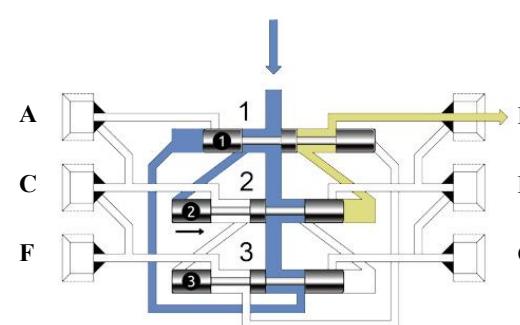
3

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



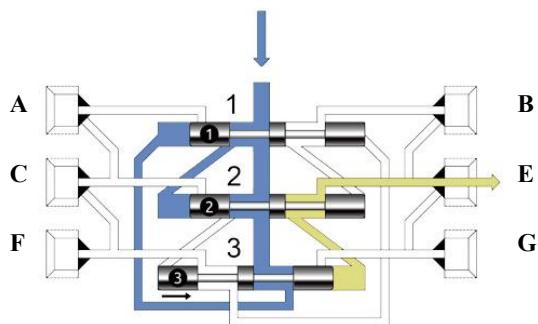
4

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.



When piston 2 reaches its limit, lubricant flow 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-	<input type="checkbox"/>						
<b>A = Zinc-nickel</b>								
<b>B= Zinc-nickel black</b>								
<b>Outlet Number</b>	06=6							
	08=8							
	10=10							
	⋮							
	22=22							
<b>Inlet Connector</b>	XX= Without inlet fittings							
	06=Ø6mm							
	08=Ø8mm							
<b>Inlet Connector shape</b>	D= Straight fitting assembly							
	H= 90° fitting assembly							
<b>Type</b>	XXX= without pin							
<b>Visual Pin</b>	Cxx = Install the outlet in xx							
<b>Ultra sensor</b>	KRxx = Install the outlet in xx							
<b>Plug</b>	XD=3-20							
<b>Outlet Connector</b>	XX= Without outlet fittings							
	S6= Ø6mm Fitting with check valve							
	Q6= Ø6mm Push-in Fitting							

# 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

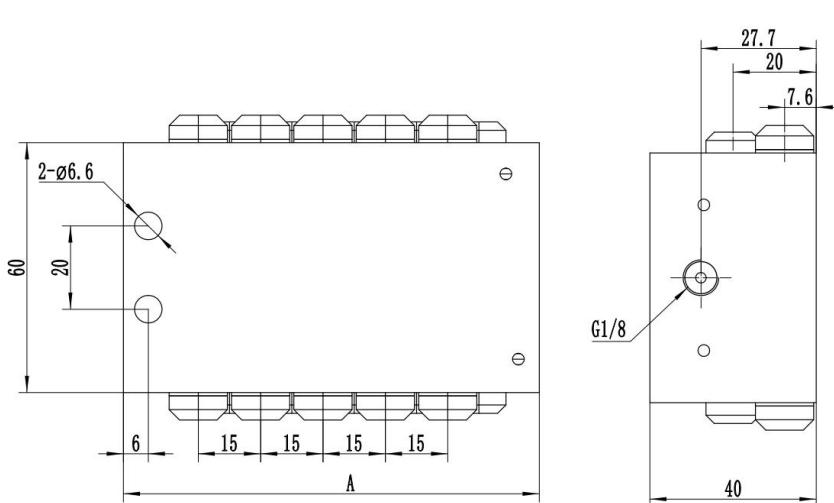
### Technical parameters

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

# DSPP Distributor

## Dimensions (mm)



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

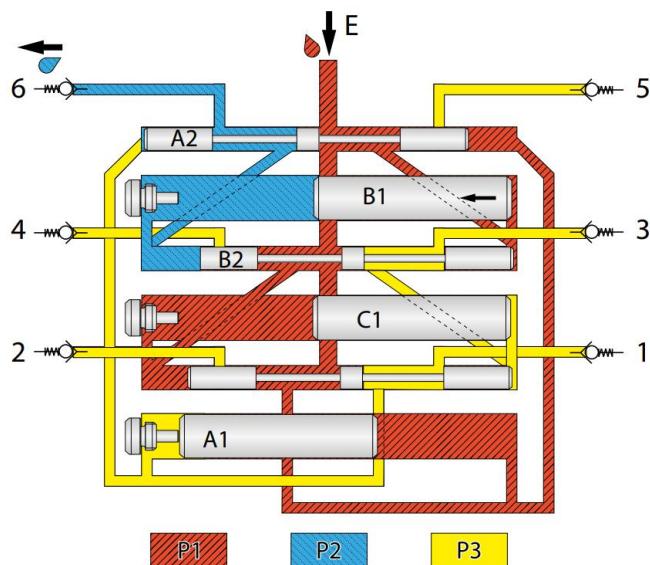
## Function of the lubricant in the DSPP metering device

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

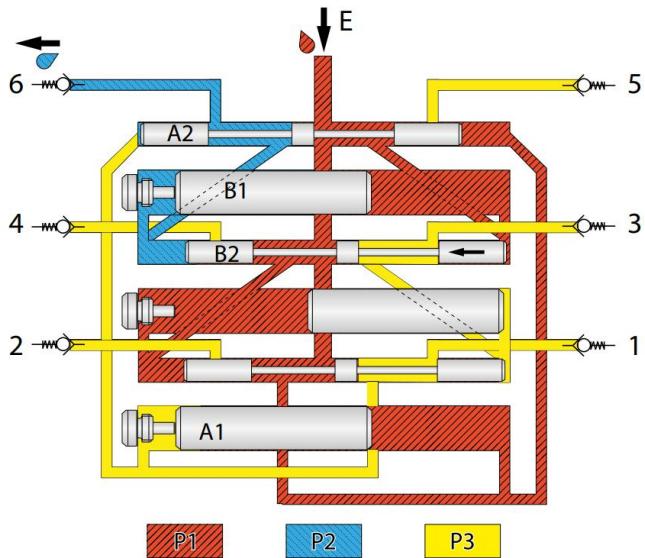
P3 = Lubricant not being moved



## 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.

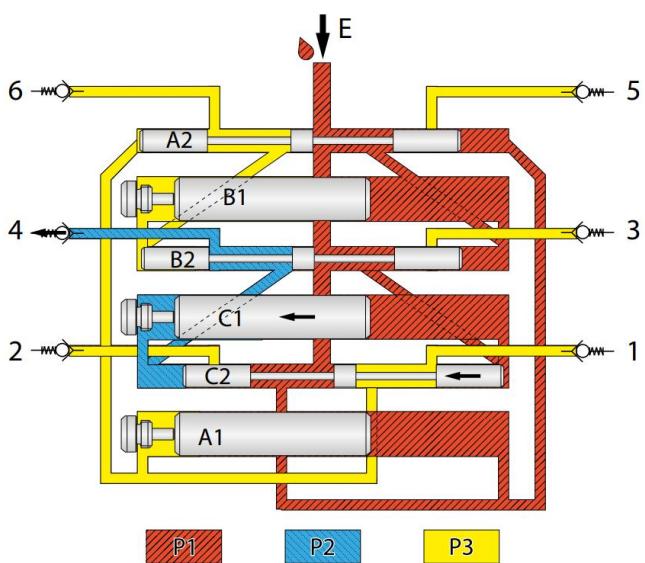
# DSPP Distributor



## 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

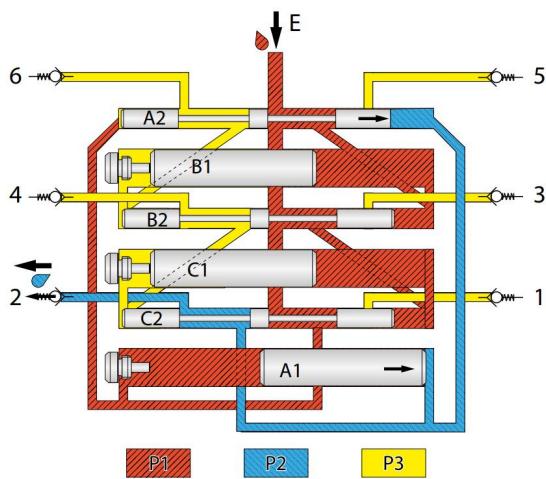
The control piston B2 has reached its left end position. Thereby it opens the connection duct to the right end of control piston C2 and metering piston C1. The pressurized lubricant P1 is now located at the right end of control piston C2 and metering piston C1 and first moves metering piston C1 to the 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.

# DSPP Distributor



## Phase 5

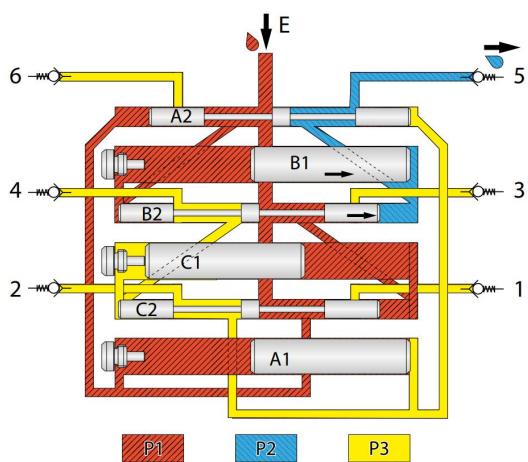
The control piston C2 has reached its left end position. Thereby it opens the connection duct to the left end of control piston A2 and metering piston A1. The pressurized lubricant P1 is now located at the left end of control piston A2 and metering piston A1.

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.

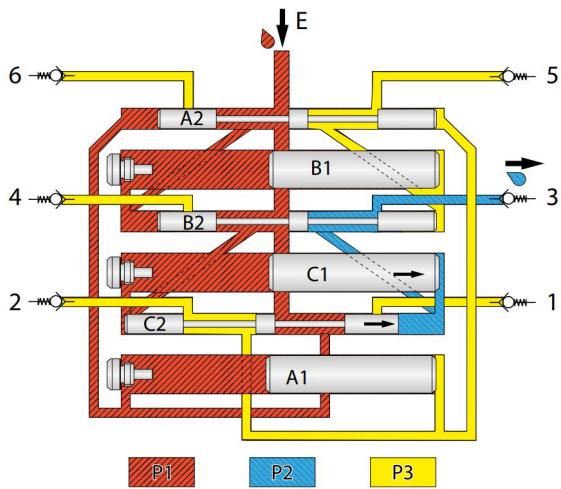


## Phase 7

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.

# DSPP Distributor

## 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

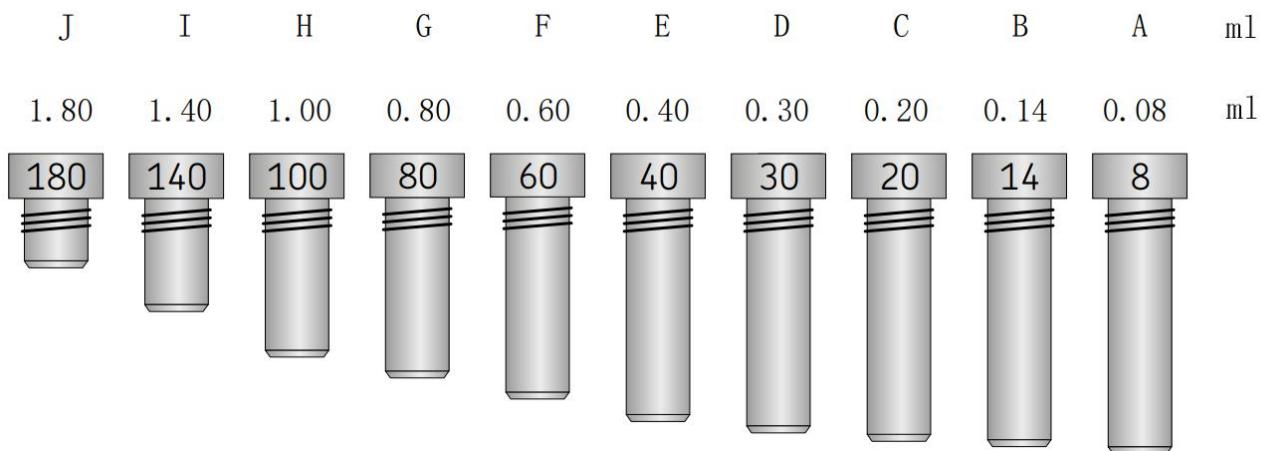
DSPP-		<input type="checkbox"/>						
<b>A =Zinc-nickel</b>								
<b>B= Zinc-nickel black</b>								
<b>Outlet Number</b>								
06=6								
08=8								
10=10								
22=22								
<b>Inlet Connector</b>								
XX=Without inlet fittings								
06=Ø6mm								
08=Ø8mm								
<b>Inlet Connector shape</b>								
D= Straight fitting assembly								
H= 90° fitting assembly								
<b>Type</b>								
XXX= without pin								
<b>Visual Pin</b>								
Cxx = Install the outlet in xx								
<b>Ultra sensor</b>								
KRxx = Install the outlet in xx								
<b>Plug</b>								
XD=3-22								
<b>Outlet Connector</b>								
XX= Without outlet fittings								
S6= Ø6mm Fitting with check valve								
Q6= Ø6mm Push-in Fitting								
M6=Ø6mm Nut and fellule								

# DSPP Distributor

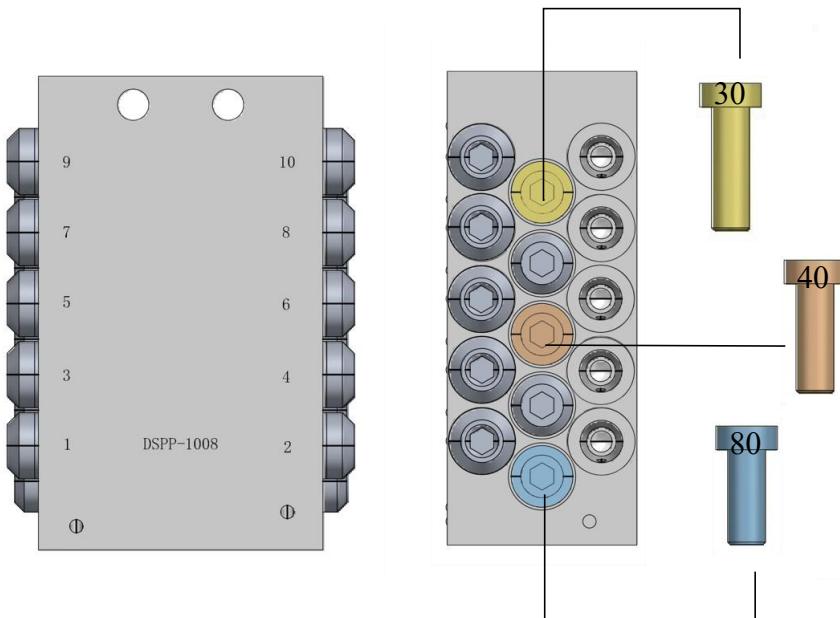
The output of the DSPP metering devices can be adapted by using different metering screws.

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.



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:

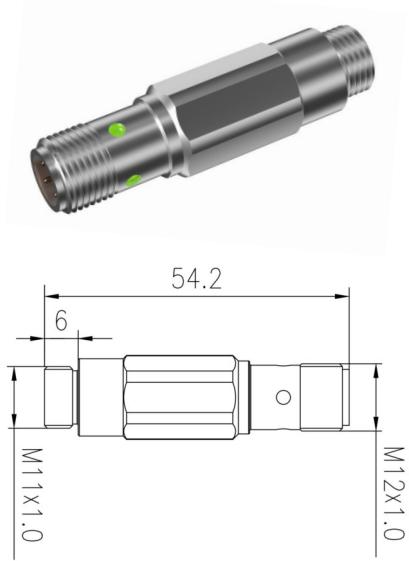
DSPP-0608xxxxxxxx-

ABCxxxxxxxx

(x = placeholder in type identification code) DSPP with metering screws GFH in the metering piston levels (medium levels) 6, 4, and 2.

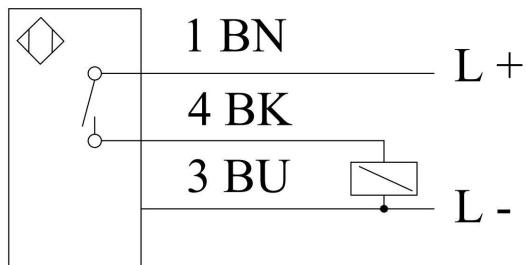
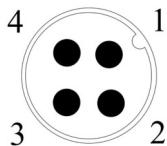
# Accessories

## Ultra sensor



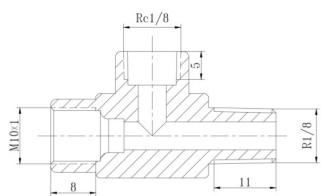
Model number	Part number	Connecting thread	Type
0101587	UF-124581	M12*1, 4Core	PNP

\*\* Please inquire for NPN type

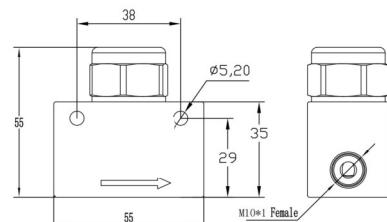


Model number	Part number	Type	Description
0500148	UF-124582	Straight	2m
0500180	UF-124583	Elbow	2m

## With grease nipple inlet assembly



## Inline filter



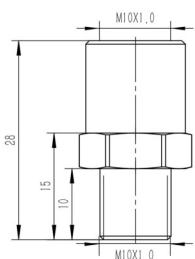
Model number	Part number	Thread F	Thread M
5000195	UF-3T1002	M10x1	R1/8

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.

# Accessories

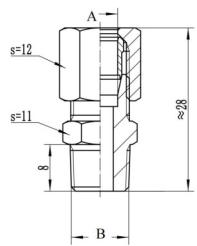
## Inset filter 70µm



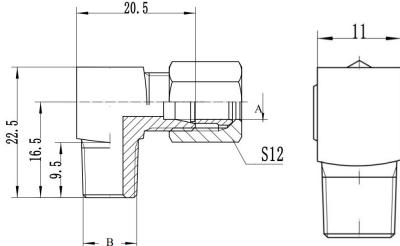
Model number	Part number	Thread
0100945	UF-31F10	M10x1
5000444	UF-31F02	G1/8

## Inlet fittings

### Straight Connector assembly



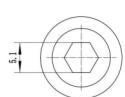
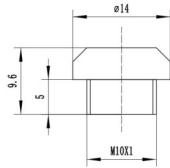
### 90° Elbow assembly



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



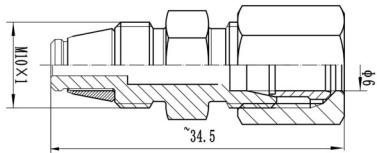
\*\* inquire for plugs without washer  
 Also supplied in SS

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

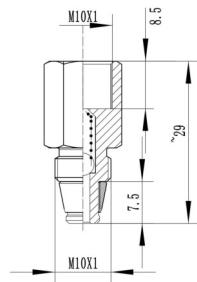
# Accessories

## Outlet fittings:

### Straight fitting with check valve



### Straight fitting with check valve



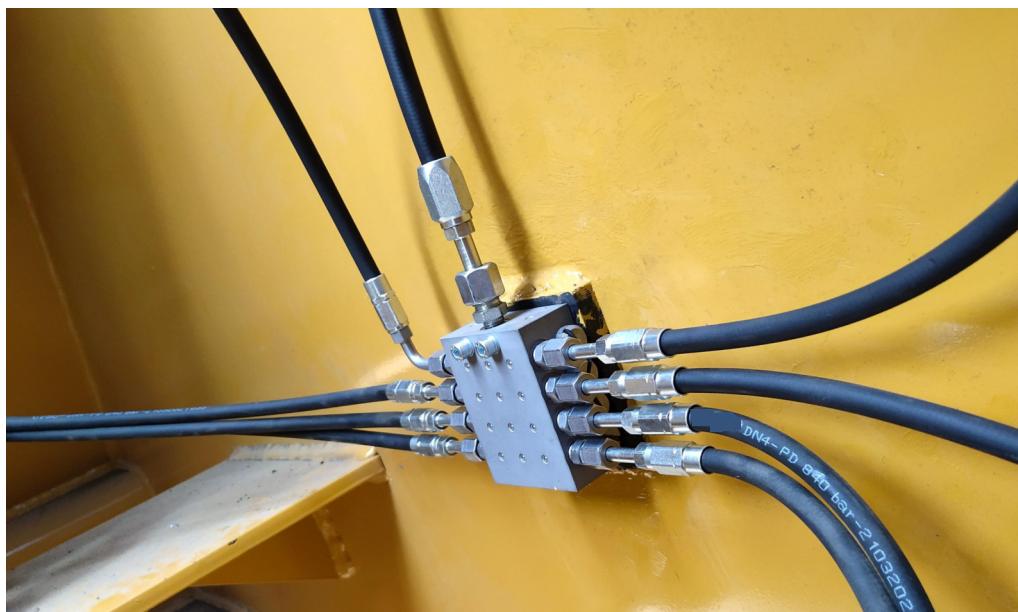
Model No	Part number	OD	Thread	Material
0600171	UF5CM0610	Ø6	M10*1	Zinc-Nickel Plated
0601186	UF5CM0610	Ø6	M10*1	Zinc-nickel black

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



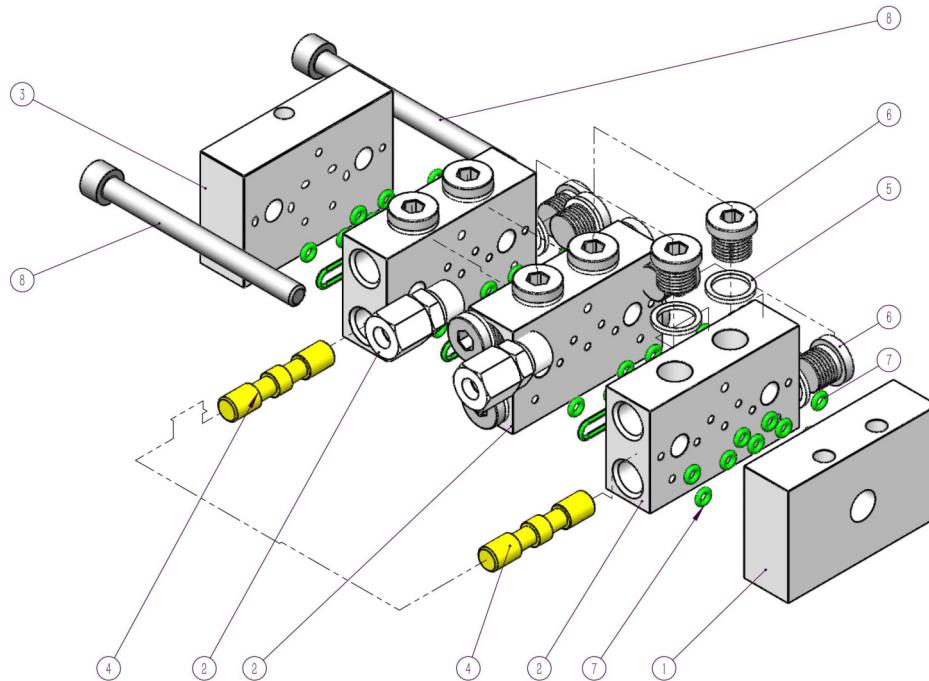
### Characteristics

- 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

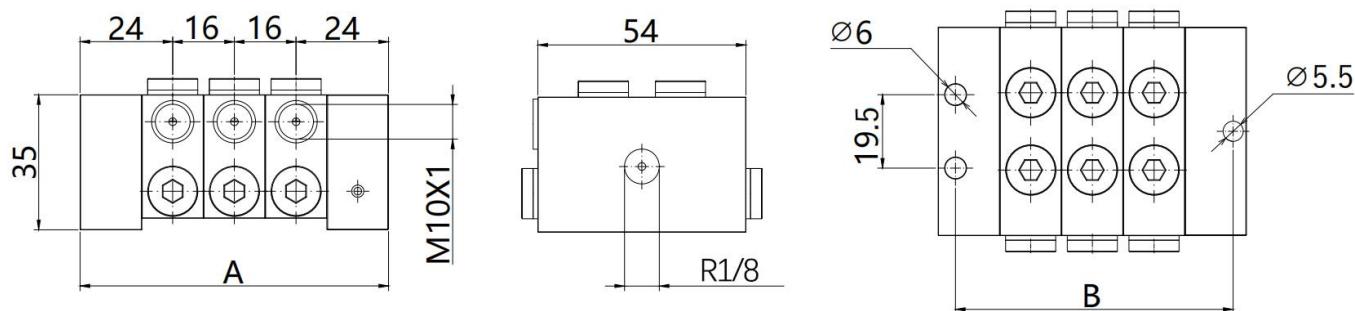
8 — Bolt

## 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.

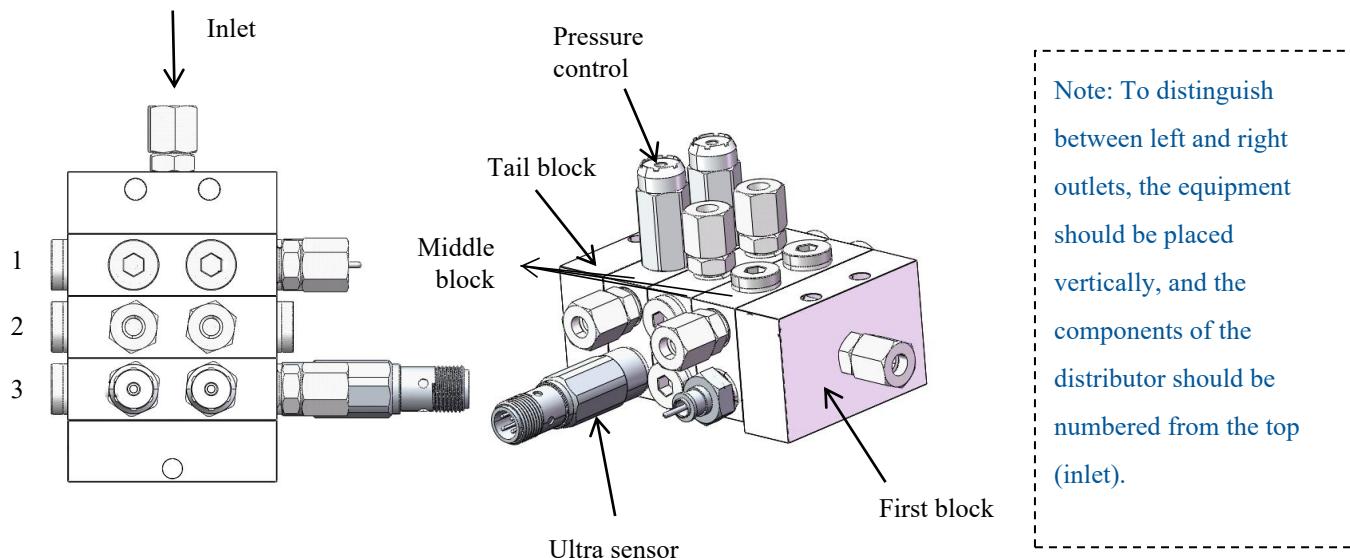
Elements specification	Discharge (for outlet) (cc/cyc)	Max. Pressure	Min. Pressure	Number of oil outlets per piece
VB-05S	0.16	30Mpa	1.4Mpa	1
VB-05T	0.08	30Mpa	1.4Mpa	2
VB-10S	0.32	30Mpa	1.4Mpa	1
VB-10T	0.16	30Mpa	1.4Mpa	2
VB-15S	0.48	30Mpa	1.4Mpa	1
VB-15T	0.24	30Mpa	1.4Mpa	2
VB-20S	0.64	30Mpa	1.4Mpa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

## Ordering information:

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

# VB Distributor

## Ordering instructions:

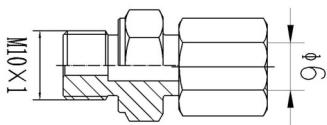


Flow rate (cc)	Outlets	Cycle control	Pressure control			Outlet fittings
			Type	Pressure (Mpa)	Location	
05	<b>T</b> Double outlet	<b>VR</b> Visual pin right (05 N/A)	<b>M</b> Safety valve	10	<b>L</b> Left	<b>Q4</b> Ø4 Push-in straight
10	<b>SL</b> Single left	<b>VL</b> Visual pin left (05 N/A)		20	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

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

1 2 3 4 5

## Straight fitting with check valve



## Outlet plug



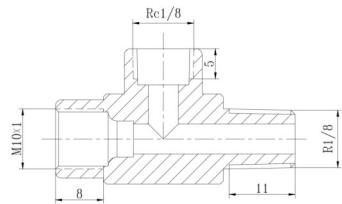
Part No	OD	Thread	Material
UF-0601277	Ø6	M10*1	Zinc plated

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

## Adjustable fitting



## With grease nipple inlet assembly:

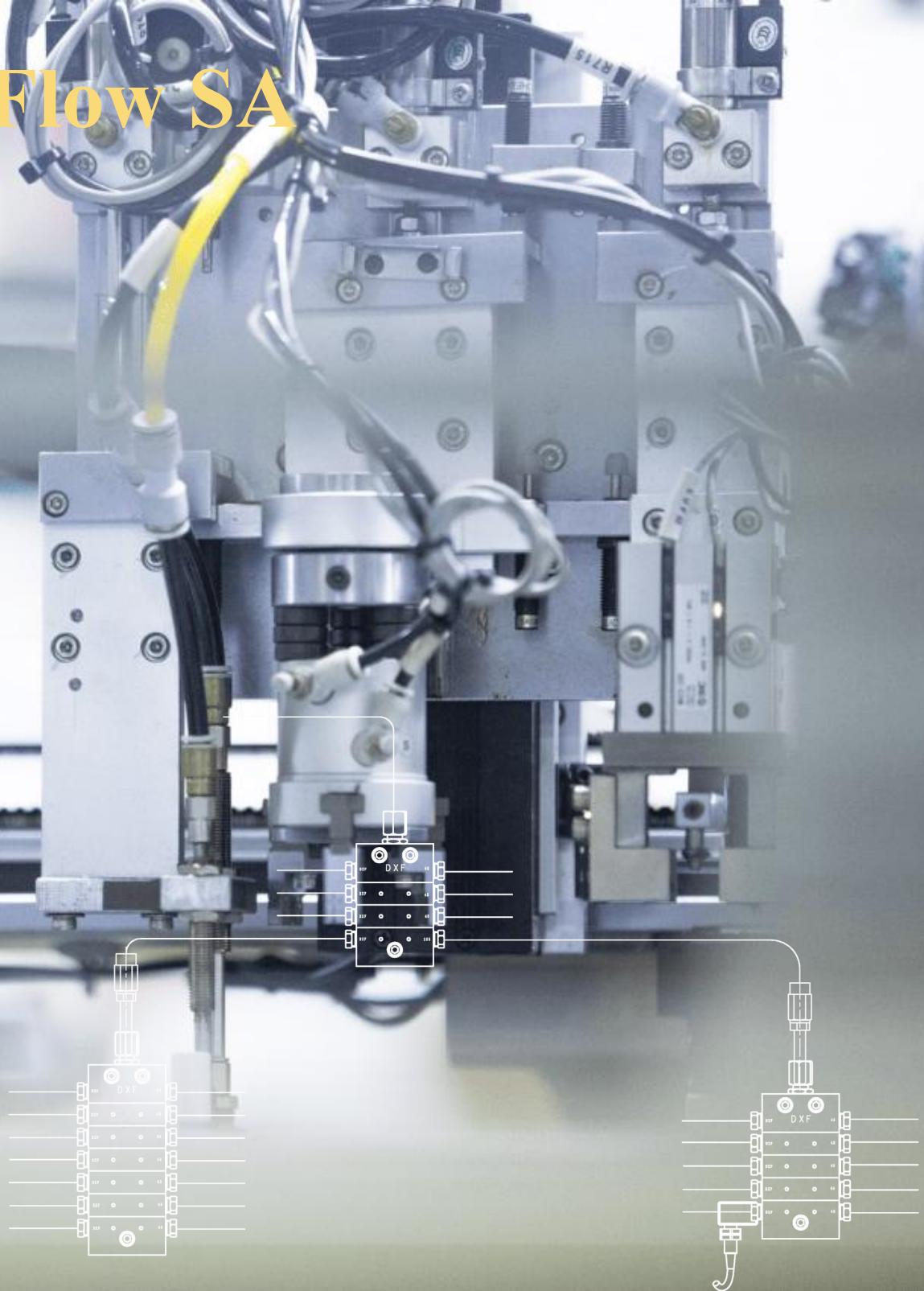


Model number	Part number	OD	Thread M	Material
0600139	UF-5B0610	Ø6	M10*1	Zinc-Nickel Plated

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

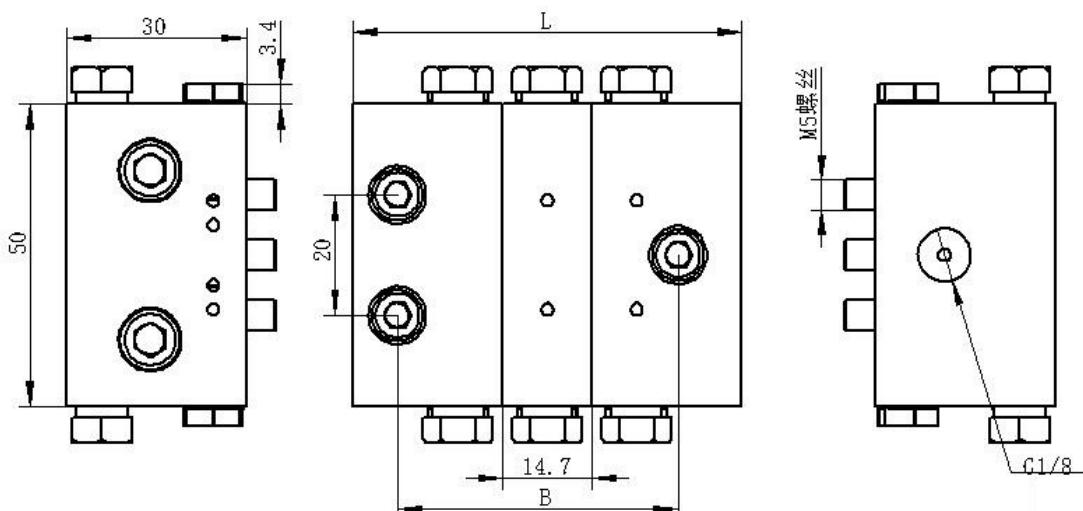
## Applications

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

## Technical parameters

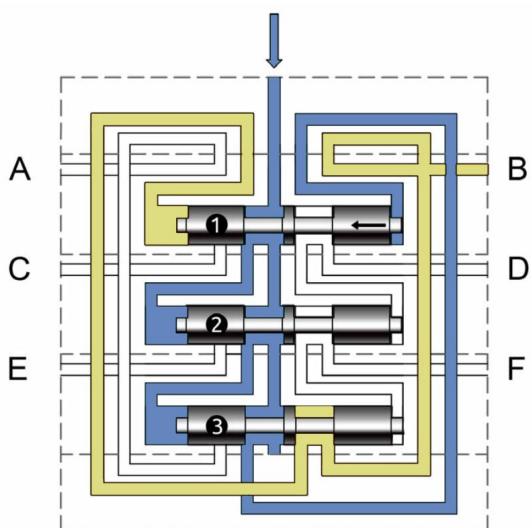
Outlets number	Max. 24
Discharge / Stroke for each outlet	0.025cc - 0.045cc - 0.075cc - 0.105cc
Max. pressure	30MPa Max.
Operating temperature	-20°C ~ +100°C
Number of cycle	Max. 300 cyc/min
Lubricants	Oil~NLGI 2#
Inlet thread	G1/8
Outlet thread	M10*1
Coating	Zinc-nickel

## Dimensions:



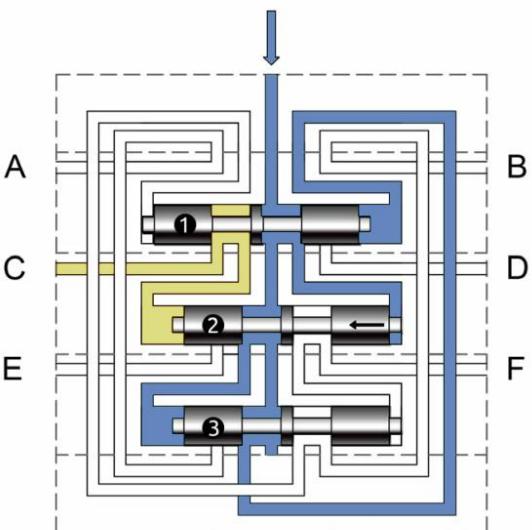
Number of work	L(mm)	B(mm)	Number of work	L(mm)	B(mm)
3	64.7	46.7	8	138.2	120.2
4	79.4	61.4	9	152.9	134.9
5	94.1	76.1	10	167.6	149.6
6	108.8	90.8	11	182.3	164.3
7	123.5	105.5	12	197	179

## Operating principle



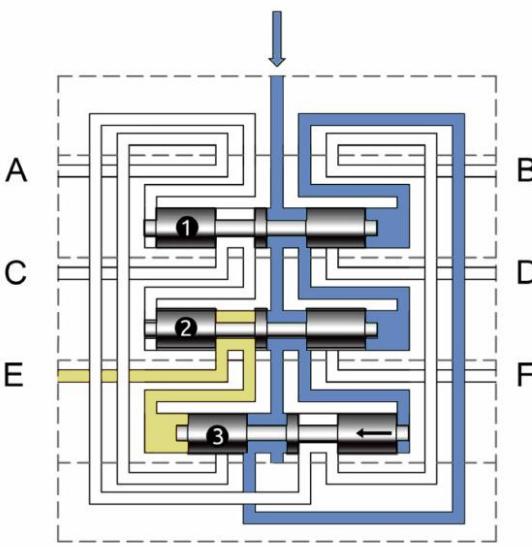
1

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



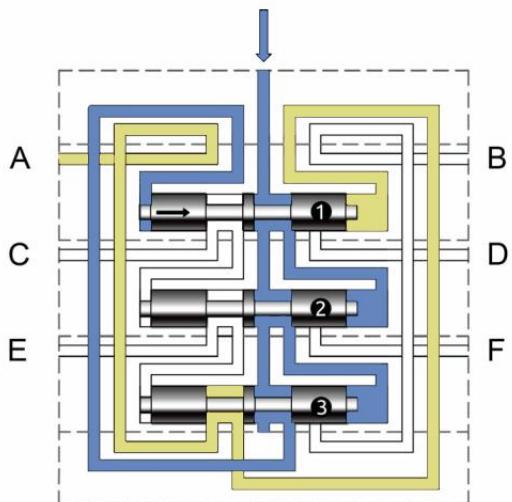
2

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



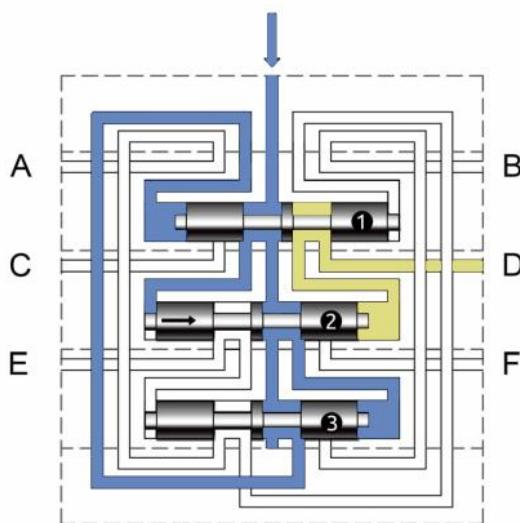
3

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



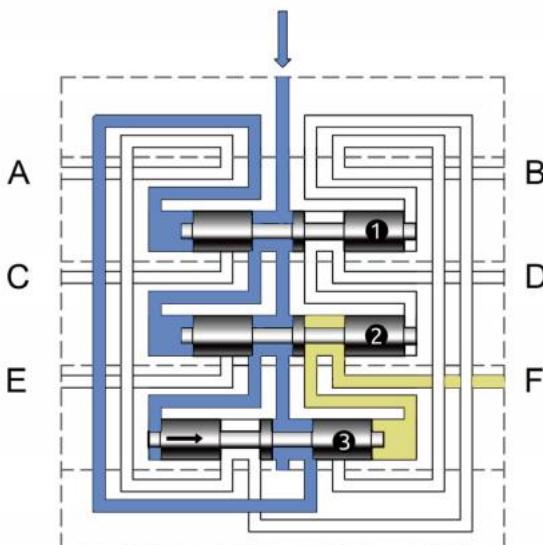
4

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.

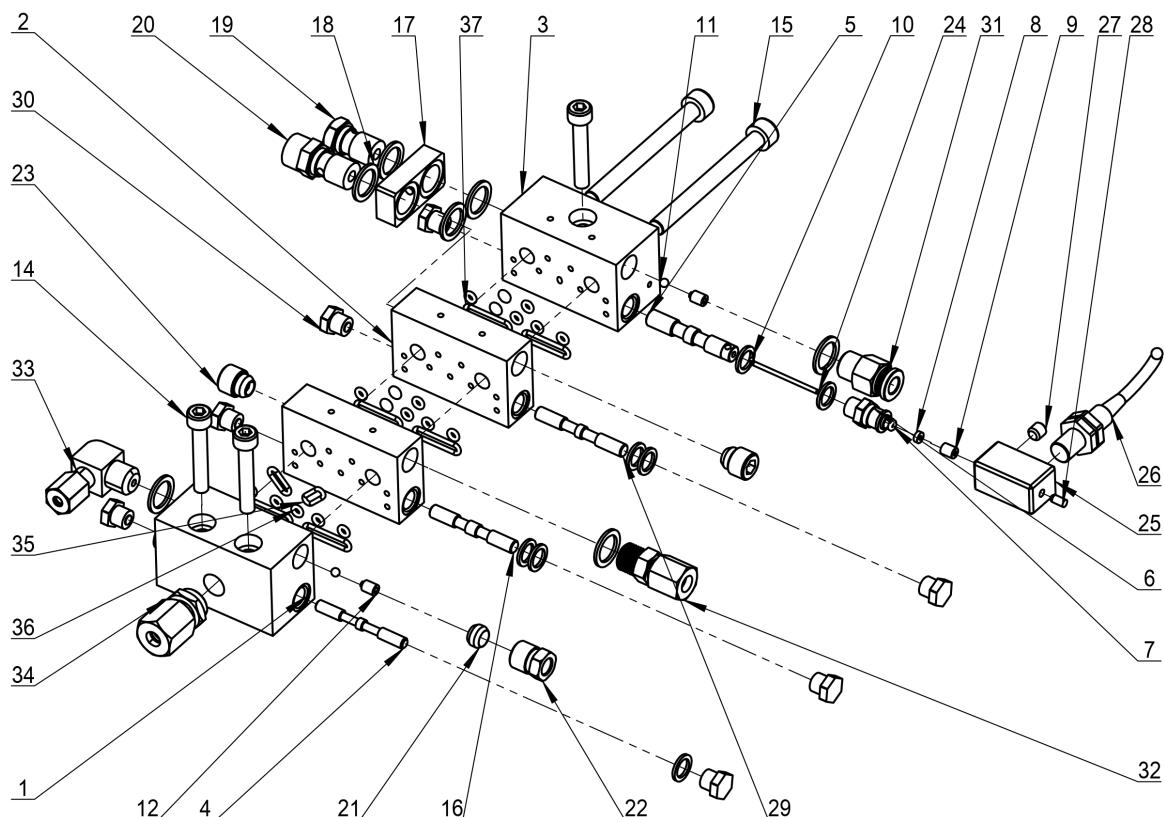


6

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.

# DXF Distributor

## Critical component information



№	Parts designation	№	Parts designation	№	Parts designation
1	First block	11	Steel bolt	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:

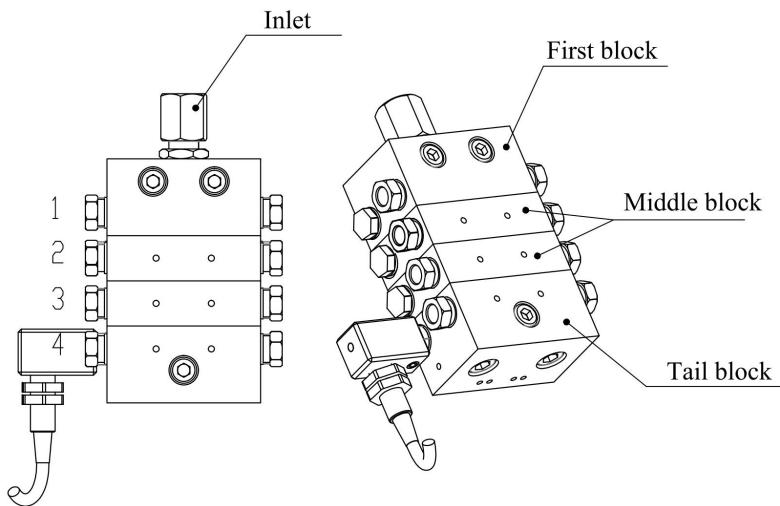
DXF - 

5	D	8	
---	---	---	--

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

# 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	<b>T</b> Double outlet	<b>BL</b> Bridge left	<b>ER</b> PNP Inductive sensor right	<b>Q4</b> Ø4 Push-in fitting
45	<b>SL</b> Single left	<b>BR</b> Bridge right	<b>EL</b> PNP Inductive sensor left	<b>Q6</b> Ø6 Push-in fitting
75	<b>SR</b> Single right	<b>BLR</b> Bridge left&right	<b>VR</b> Visual right side	<b>D4</b> Ø4 Ferrule fitting
105		<b>TL</b> Tube Bridge left	<b>VL</b> Visual left side	<b>D6</b> Ø6 Ferrule fitting
		<b>TR</b> Tube Bridge right		<b>S6</b> Ø6 Fitting with check valve
				<b>M4</b> Ø4 Sleeve and nut
				<b>M6</b> Ø6 Sleeve and nut

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

1 2 3 4

# DXF Distributor



## 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

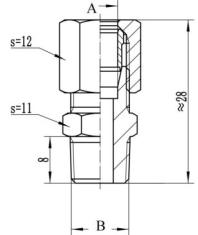
Discharge	First block	Middle block	Tail block
0.045cc/cyc	4F045-E	4M045-E	4T045-E
0.075cc/cyc	4F075-E	4M075-E	4T075-E
0.105cc/cyc	4F105-E	4M105-E	4T105-E

## Tie-rods Ordering information :

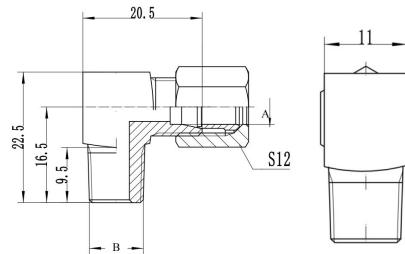
Number of work	length(mm)	Part number	Number of work	length(mm)	Part number
3	45	UF0400606	8	115	UF0400009
4	60	UF0400605	9	130	UF0400010
5	70	UF0400156	10	145	UF0400602
6	85	UF0400607	11	160	UF0400590
7	100	UF0400603	12	175	UF0400601

## Inlet fittings:

### Straight fitting assembly

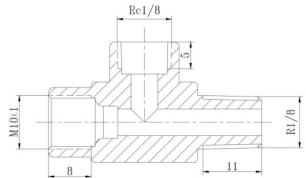


### 90° fitting assembly



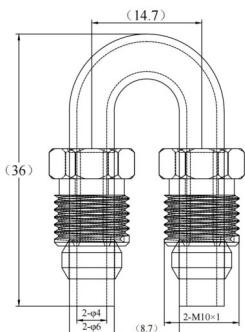
Model number	Part number	A	B	Material	Model number	Part number	A	B	Material
0601275	UF-5DM0802	Ø8	R1/8	Zinc-Nickel Plated	0601276	UF-5HM0802	Ø8	R1/8	Zinc-Nickel Plated
0601063	UF-5DM0602	Ø6	R1/8		0600933	UF-5HM0602	Ø6	R1/8	
0600167	UF-5DM0402	Ø4	R1/8	Zinc plated	0600168	UF-5HM0402	Ø4	R1/8	Zinc plated

### With grease nipple inlet assembly:



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

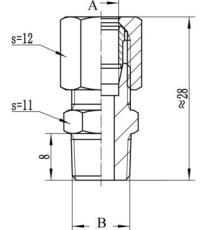
### Tube Bridge Assembly



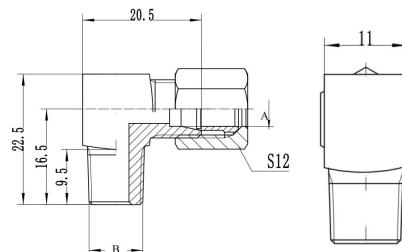
Model No	Part No	Thread	Tube
5000445	UF-2U06	M10x1	φ6

## Outlet fittings:

### Straight fitting connector assembly



### 90° elbow 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

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



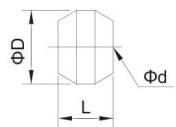
### Outlet plug



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

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

### Sleeve



### Nut



Model No	Part No		Ød	ØD	L	Model No	Part No	Ød	Thread
0600290	UF-3B06	6	6.1	8	5	0601048	UF-3C10	Ø6	M10*1

# Ultra Flow SA



VSP  
Distributor

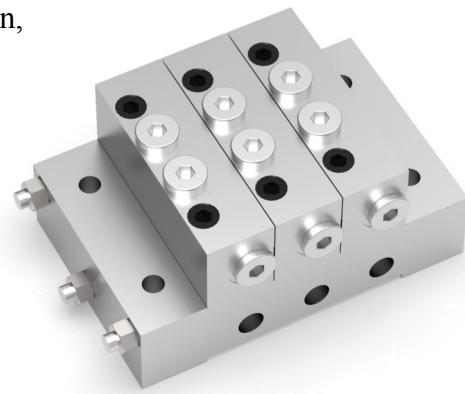
- Max. Pressure 25Mpa
- Sizes up to 16 outlets
- Easy servicing as outlets are located on baseplate
- Flexible due to exchangeable metering segments

## 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

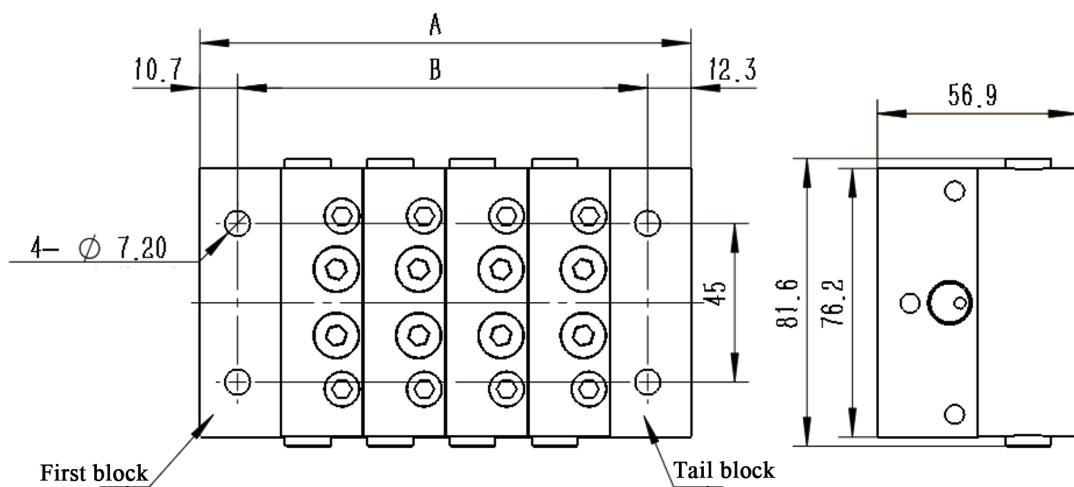
- automobile, industrial equipment
- wind power
- construction machinery

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
Intlet thread	G1/4
Outlet thread	G1/8

# VSP Distributor



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

# VSP Distributor

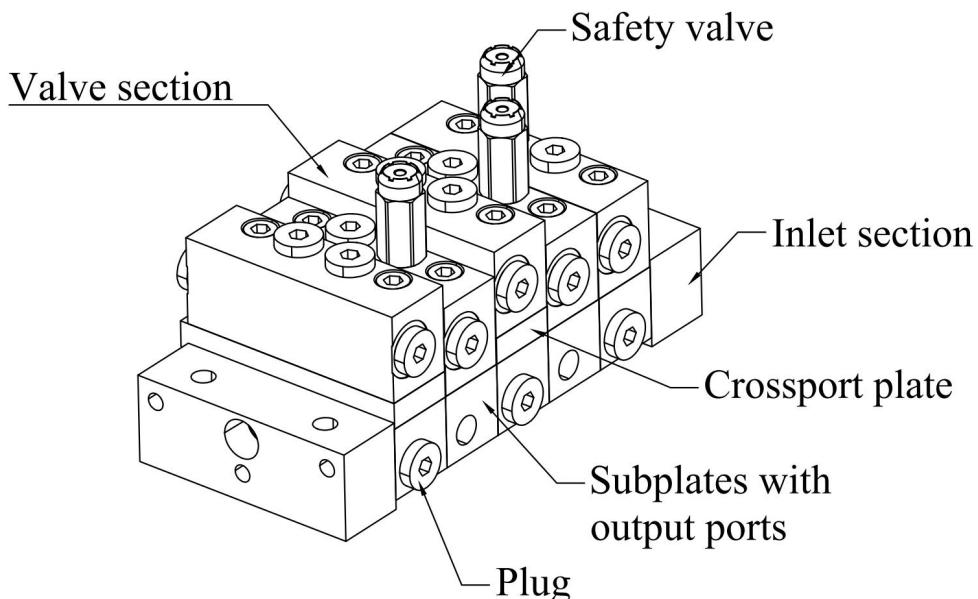


Model of VSP distributor valve

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

outlet	Description	Flow rate in <sup>3</sup> (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
	VSP-5T	0.005(0.08)	61919	Not applicable	
Twins	VSP-10T	0.010(0.16)	61920		
	VSP-15T	0.015(0.26)	61921	Not applicable	
	VSP-20T	0.020(0.33)	61922		
	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

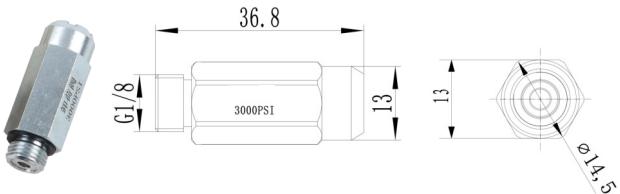
## Ordering information:

VSP-

<b>Element Number</b>	3-11
<b>Flow rate (cc)</b>	
<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
<b>Working valve block outlets</b>	
T= Twins outlets	
SL= Left single outlet	
SR= Right single outlet	
<b>Inlet Conneter</b>	
X= Without inlet fitting	
6=Ø6 8=Ø8	
10=Ø10 12=Ø12	
<b>Outlet Conneter</b>	
XX= Without outlet fitting	
D6= Ø6mm Ferrule fitting	
Q6= Ø6mm Push-in Fitting	
D8= Ø8mm Ferrule fitting	
Q8= Ø8mm Push-in Fitting	
<b>Type</b>	
XX = No settings	
<b>Cycle Control</b>	
RD = With circulating pin-right (5, 10, 15 N/A)	
LD = With circulating pin-left (5, 10, 15 N/A)	
<b>Proximity sensor</b>	
ULP= PNP Proximity sensor /Left	
URP= PNP Proximity sensor /Right	
<b>Ultra sensor</b>	
W= Ultra sensor	

# VSP Distributor

## Safety valve



## Cycle indicator



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



**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

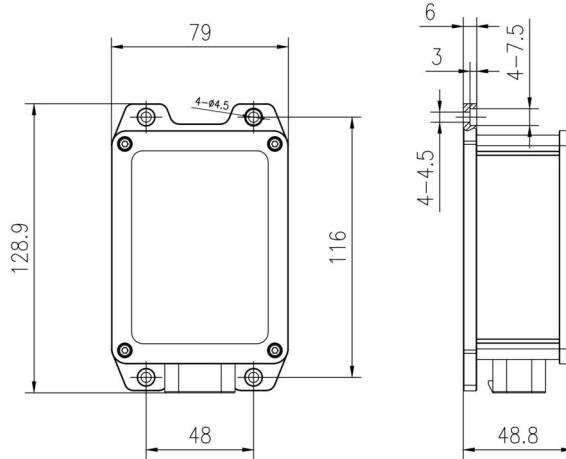


Part number: UF-5000297

## 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



**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

Part number: UF-5000097

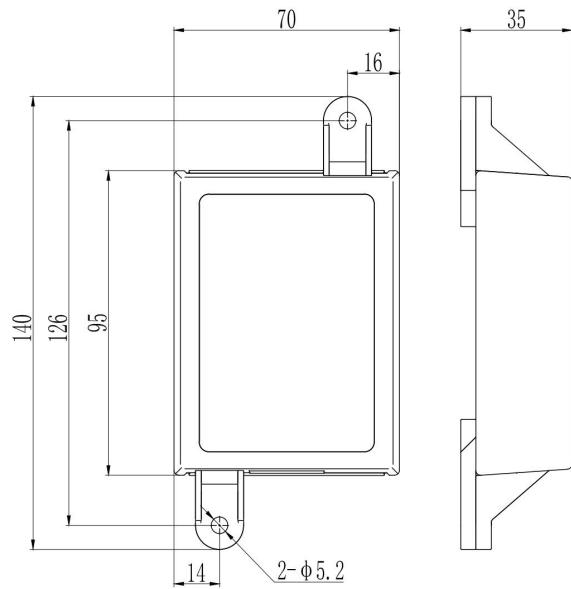
## Available Inputs

- 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



Part number: UF-2002119

**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.

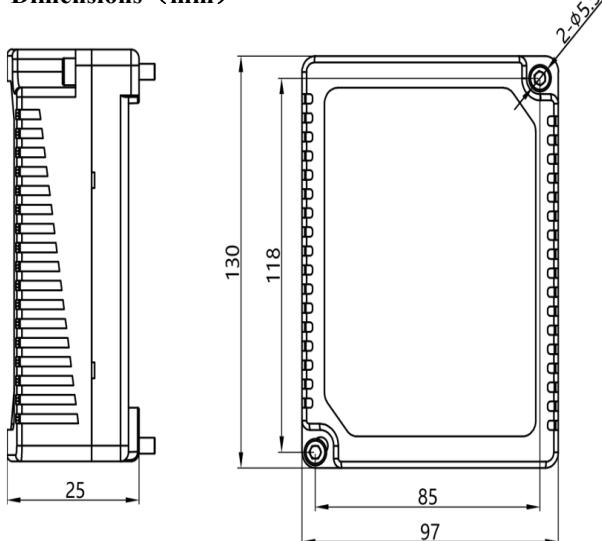
## Features

- ▲ 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

## 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

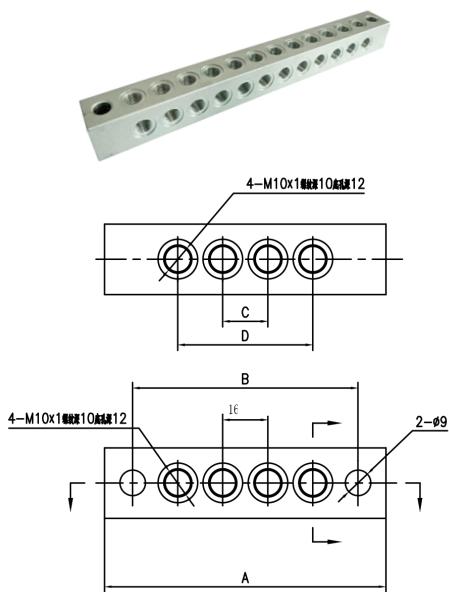
## VSD

## Distributor block



# VSD Distributor block

## VSD distributor Block



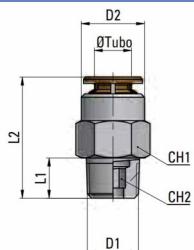
## Specifications and technical parameters

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, anytime. 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 (UFC-02:00)		Setup	
Current Status:	Roamer Serial #00101	Date & Time	Event	Mode	PLS - Time
RUNNING - Faults cleared		02-08-2024 (02:52)	Faults cleared	01:30:00	01:30:00
Latched Faults:		02-08-2024 (02:52)	Forced Run	Pause Time	00:00:10
State Since:		02-08-2024 (02:52)	Motor S/C	Run Time	-
Last Updated:		02-08-2024 (02:52)	Forced Run	Use PI	Yes
		29-07-2024 (09:59)	Faults cleared	PI Cycles	-
		29-07-2024 (08:59)	Power on	PI Timeout	00:01:30
		24-07-2024 (07:04)	Power off	Use P2	-
		24-07-2024 (06:25)	Forced Run	P2 Cycles	-
		24-07-2024 (06:25)	Motor O/C	P2 Timeout	-
		24-07-2024 (06:25)	Forced Run	Use Level	-
				Over Pressure	0.64
				Update Settings	



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### **AUTOLUBE:**

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

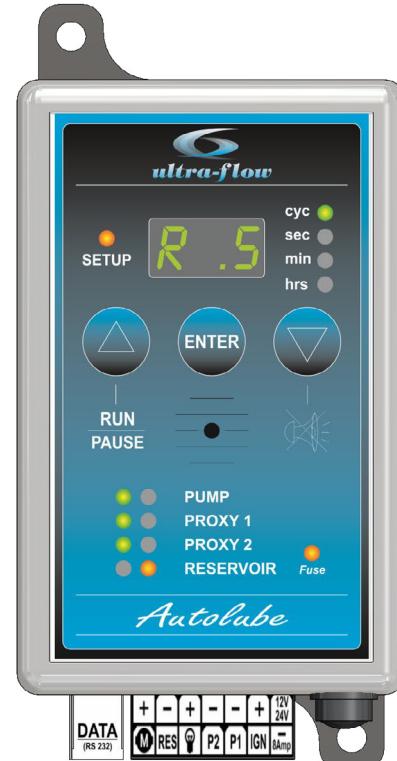
Innovative Algorithms also give new flexibility and greater control over traditional single line systems.

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.



CE

## **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)
- 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



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### 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

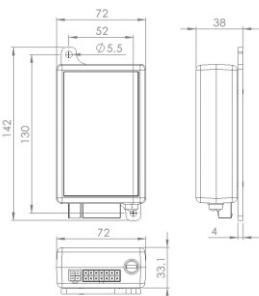
### G1 FEATURES

- 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

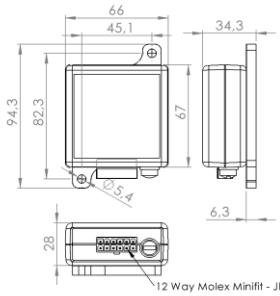


The AUTOLUBE is a universal lubrication system controller capable of handling all common lubrication systems from the simplest run - pause timer through progressive, single and dual line systems. Innovative algorithms also give new flexibility and greater control over traditional single and dual line 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
<b>AUTOLUBE CONTROLLER PROGRESSIVE/DUAL/SINGLE LINE</b> UF-AL-24	Alternative Part Number 85307	<b>AUTOLUBE LUBRICATION CONTROLLER</b> AUTOLUBE LUBRICATION CONTROLLER	DIMENSION	DIMENSION		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

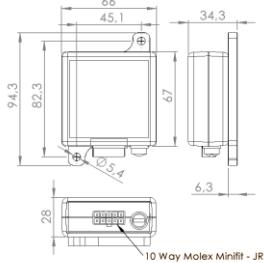


The G2 Pulse Lubrication Controller is specifically designed for use on systems incorporating a pump as well as a solenoid valve and pressure switch. The unit can be programmed for pause cycles from 1 second to 50 hours, pump run timeout range of 1 to 50 minutes and solenoid valve cycle times of 1 to 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
<b>G2 PULSE CONTROLLER FOR HYDRAULIC APPLICATIONS</b> UF-G2-24	Alternative Part Number NA	<b>G2 PULSE CONTROLLER</b> G2 PULSE CONTROLLER	DIMENSION	DIMENSION		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

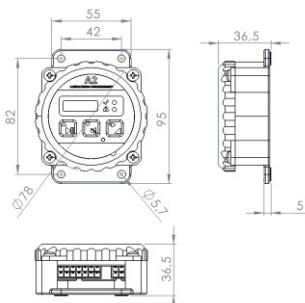


The G1 lubrication controller from ULTRA-FLOW is the result of years of experience in the lubrication industry. Designed by lubrication experts the system gives users the functionality they require without the complications. From the practical housing and wiring to the simple clear programming, the G1 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
<b>G1 LUBRICATION CONTROLLER PROGRESSIVE/SINGLE LINE</b> UF-G1-24	Alternative Part Number NA	<b>G1 LUBRICATION CONTROLLER</b> G1 LUBRICATION CONTROLLER	DIMENSION	DIMENSION		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 (Resetable)  
 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
<b>A2 CONTROLLER 10VDC TO 30VDC</b> UF-A2-24	Alternative Part Number NA	<b>A2 LUBRICATION CONTROLLER</b> A2 LUBRICATION CONTROLLER	DIMENSION	DIMENSION		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		
<b>DATA SHUTTLE</b> ADS-3	Alternative Part Number 85307-DS	<b>DATA SHUTTLE FOR AUTOLUBE RECORDS AND EVENTS</b> DATA SHUTTLE FOR AUTOLUBE CONTROLLER			YES			

Item Code / UF Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture			
<b>AUTOLUBE, G1, AND G2 PULSE HARNESS</b>	Alternative Part Number 279630	<b>CONTROLLER LOOMS (HARNESS)</b>	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-AL-15M-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			



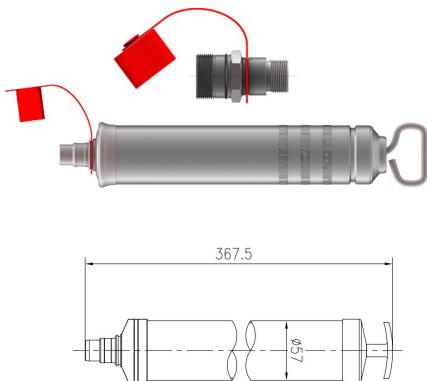
ENGINEERED SOLUTIONS  
FOR PRECISE LUBRICATION



# Fittings & Accessories



## 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			

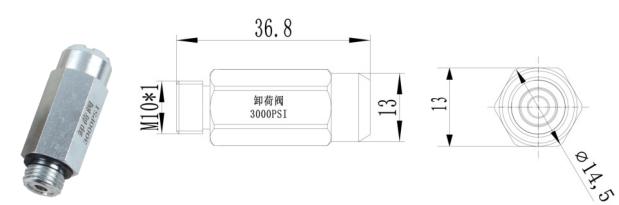
# Fittings & Accessories



GTS Pump Element



Safety valve



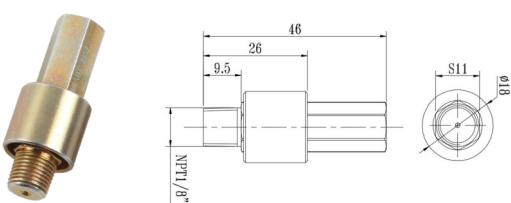
Part number	OD	Rated flow
UF-80536	6mm	A6; 4ml/min
UF-80537	7mm	A7; 5ml/min

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

Safety valve



Safety valve



Part number	OD	Male thread	Pressure
UF-5FJ01	φ6	G1/4	345bar/5000psi

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

Controller shield



Mounting bracket



Description	Part number	Type
PC	UF-97116	GTS

Description	Part number	Type
Mounting bracket	UF-90236	GTS

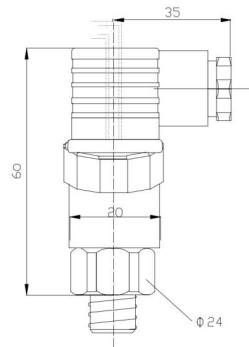
# Fittings & Accessories



Button with green lamp



Pressure switch



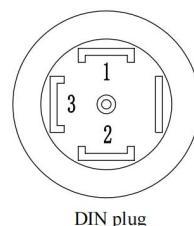
Description	Part number
12V	UF-90212
24V	UF-90224

Description	Part number
Adjustable Type	UF-91346

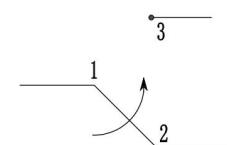
Cartridge



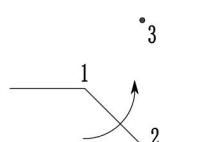
Description	Part number	Reservoir
Cartridge	UFCSL-J100	700CC
	UFCSL-C100	700CC



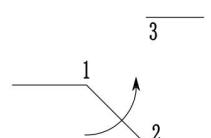
DIN plug



SPDT Normally open + normally closed



SPST Normally closed type

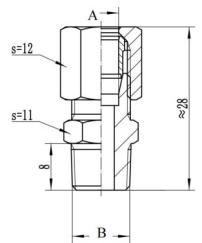


SPST Normally open type

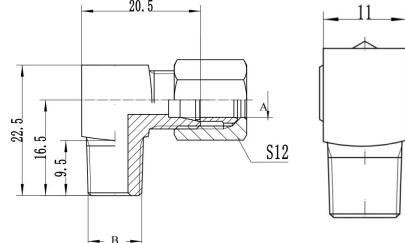
# Fittings & Accessories



Straight Connector LL series

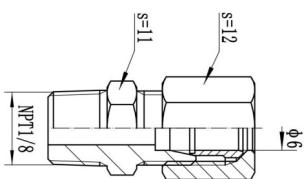


Elbow Connector LL series

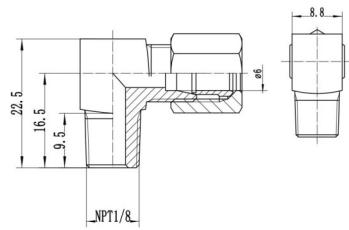


Part number	OD	A	Material	Part number	OD	Thread	Material
UF-106-004	Ø6	R1/8 Bspt	Carbon steel, galvanized nickel	UF-106-104	Ø6	R1/8 Bspt	Carbon steel, galvanized nickel
UF-106-003	Ø6	ZM10*1		UF-106-103	Ø6	M10*1	
UF-106-002	Ø6	ZM8*1		UF-106-102	Ø6	M8*1	
UF-106-001	Ø6	ZM6*1		UF-106-101	Ø6	M6*1	
UF-104-004	Ø4	R1/8 Bspt		UF-104-104	Ø4	R1/8 Bspt	
UF-104-003	Ø4	ZM10*1		UF-104-103	Ø4	M10*1	
UF-104-002	Ø4	ZM8*1		UF-104-102	Ø4	M8*1	
UF-104-001	Ø4	ZM6*1		UF-104-101	Ø4	M6*1	

Straight connector LL series NPT



Elbow connector LL series NPT

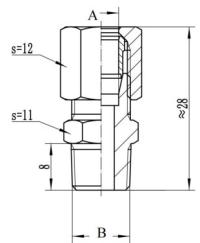


Part number	OD	Thread	Material	Part number	OD	Thread	Material
UF-5PM0602	Ø6	NPT1/8	Carbon steel, galvanized nickel	UF-5NM0602	Ø6	NPT1/8	Carbon steel, galvanized nickel

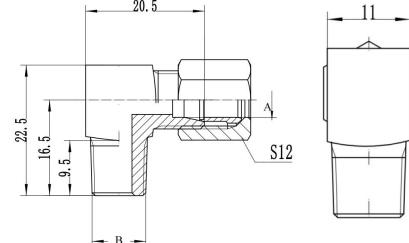
# Fittings & Accessories



Straight Connector LL series SS

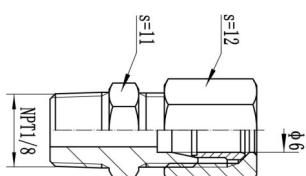


Elbow Connector LL series SS

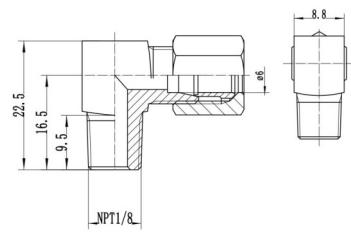


Part number	OD	A	Material	Part number	OD	Thread	Material
UF-106-004-VA	Ø6	R1/8 Bspt	Stainless Steel	UFL-106-104-VA	Ø6	R1/8 Bspt	Stainless Steel
UF-106-003-VA	Ø6	ZM10*1		UFL-106-103-VA	Ø6	M10*1	
UF-106-002-VA	Ø6	ZM8*1		UFL-106-102-VA	Ø6	M8*1	
UF-106-001-VA	Ø6	ZM6*1		UFL-106-101-VA	Ø6	M6*1	
UF-104-004-VA	Ø4	R1/8 Bspt		UFL-104-104-VA	Ø4	R1/8 Bspt	
UF-104-003-VA	Ø4	ZM10*1		UFL-104-103-VA	Ø4	M10*1	
UF-104-002-VA	Ø4	ZM8*1		UFL-104-102-VA	Ø4	M8*1	
UF-104-001-VA	Ø4	ZM6*1		UFL-104-101-VA	Ø4	M6*1	

Straight connector LL series NPT - SS



Elbow connector LL series NPT - SS

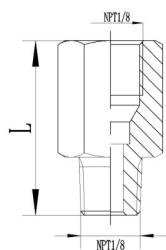


Part number	OD	Thread	Material	Part number	OD	Thread	Material
UF-5PM0602-VA	Ø6	NPT1/8	Stainless Steel	UF-5NM0602-VA	Ø6	NPT1/8	Stainless Steel

# Fittings & Accessories



Straight extensions NPT



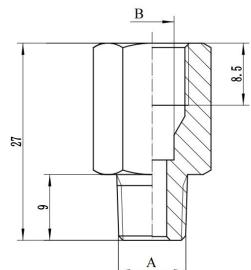
Straight GE adaptor



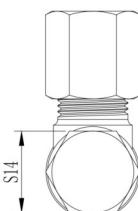
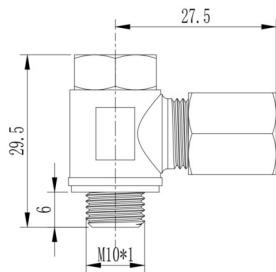
Part number	Thread	Thread	Material	L
UF-5GN02	NPT1/8	NPT1/8	Carbon steel, galvanized nickel	27
UF-5G0202	NPT1/8	NPT1/8		19

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

Straight extensions



Banjo connector



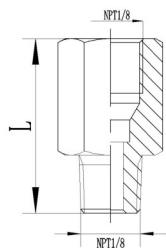
Part number	Thread M	Thread F	Material
UF-5G0210	R1/8 Bspt	M10*1	Carbon steel, galvanized nickel
UF-5G0808	M8*1	M8*1	
UF-5G0404	R1/4 Bspt	R1/4 Bspt	
UF-100-142	M10*1	M10*1	

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

# Fittings & Accessories



## Straight extensions NPT - SS



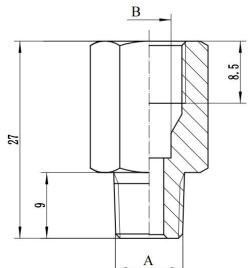
## Straight GE adaptor - SS



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

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	

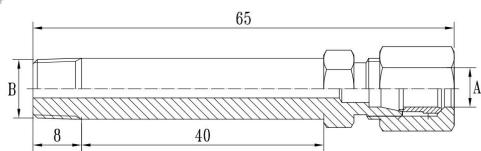
# Fittings & Accessories



## BANJO Extension



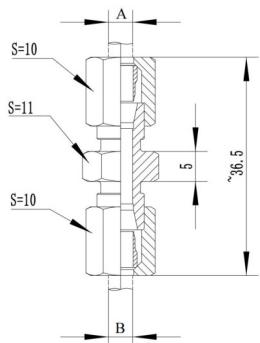
## Extension fitting assembly



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

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	

## Line Connectors



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	

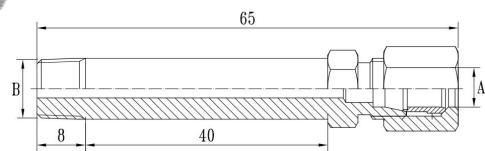
# Fittings & Accessories



## BANJO Extension - SS



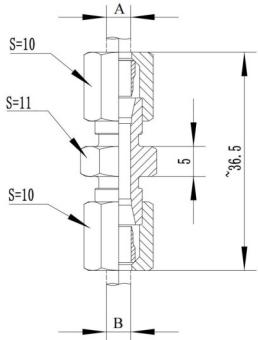
## Extension fitting assembly - SS



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

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	

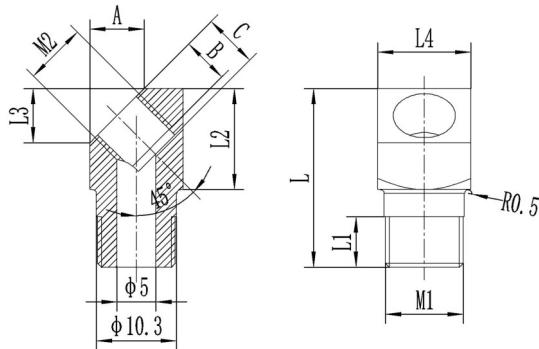
## Line Connectors - SS



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	

# Fittings & Accessories

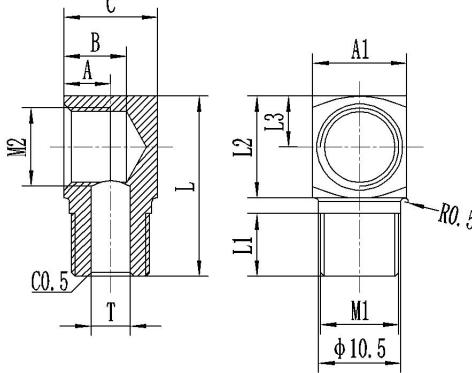
## Elbow Connector 45°



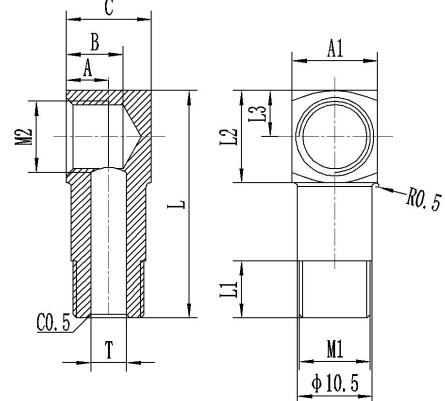
Part number	M1	M2	L	L1	L2	L3	L4	A	B	C
UF-100-822	ZM8*1	M8*1	23	6.5	13	7	12	7	6	7
UF-5EM0410	ZM10*1	M8*1	23	6.5	13	7	12	7	6	7
UF-100-833	ZM10*1	M10*1	23	6.5	13	7	12	7	6	7
UF-100-844	ZG1/8	ZG1/8	23	6.5	13	7	12	7	6	7
UF-100-855	ZG1/4	ZG1/4	33	6.5	18	7	12	7	6	7

## Elbow Connector 90°

9GM10



9GM10-Z

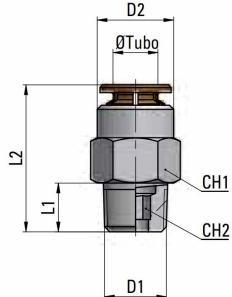


Part number	M1	M2	L	L1	L2	L3	A	B	C	A1
UF-100-711	ZM8*1	M8*1	23	8	13	6.5	6	8	12	12
UF-9GM1008	ZM10*1	M8*1	23	8	13	6.5	6	8	12	12
UF-100-733	ZM10*1	M10*1	23	8	13	6.5	6	8	12	12
UF-9GM10-Z	ZM10*1	M10*1	32	8	13	6.5	6	8	12	12
UF-100-744	ZG1/8	ZG1/8	23	8	13	6.5	6	8	12	12
UF-100-755	ZG1/4	ZG1/4	33	8	18	6.5	6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

# Fittings & Accessories

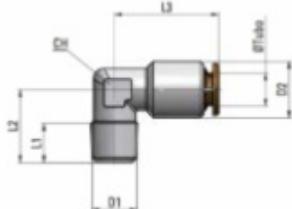


## Straight Male Push Lock Connector - 80 Bar (Plated Brass)



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)

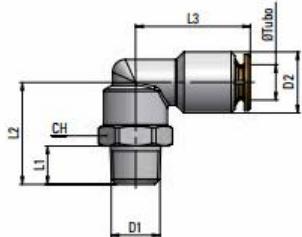


Part number	OD	D1	D2	L1	L2
UF-104-114	Ø4	R1/8	9	7.5	15.5
UF-104-111	Ø4	M6*1.0	9	8	17
UF-104-112	Ø4	M8*1.0	9	8	17
UF-104-113	Ø4	M10*1.0	9	8	18
UF-106-114	Ø6	R1/8	12	7.5	15.5
UF-106-111	Ø6	M6*1.0	12	8	17
UF-106-112	Ø6	M8*1.0	12	8	17
UF-106-113	Ø6	M10*1.0	12	8	18

# Fittings & Accessories

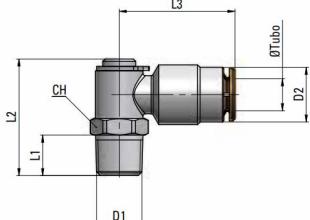


## Push Lock Rotary Elbow - 60 Bar (Plated Brass)



Part number	OD	D1	D2	L1	L2
UF-MP150418	$\varnothing 4$	R1/8"	9	7.5	20
UF-MP1504M6	$\varnothing 4$	M6*1.0	9	8	20.5
UF-MP1504M8	$\varnothing 4$	M8*1.0	9	8	20.5
UF-MP1504M10	$\varnothing 4$	M10*1.0	9	8	20.5
UF-MP150618	$\varnothing 6$	R1/8"	12	7.5	20
UF-MP1506M6	$\varnothing 6$	M6*1.0	12	8	21.5
UF-MP1506M8	$\varnothing 6$	M8*1.0	12	8	21.5
UF-MP1506M10	$\varnothing 6$	M10*1.0	12	8	21.5

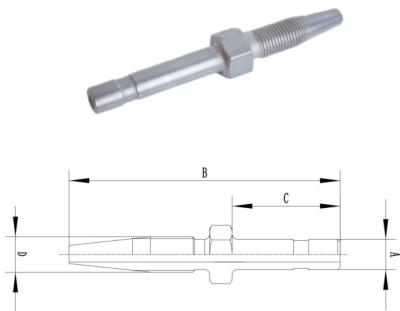
## Push Lock Rotary Elbow - 60 Bar (Plated Brass)



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

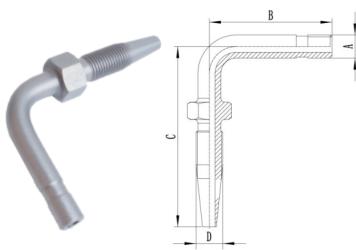
# Fittings & Accessories

## 6mm Hose Stud Straight - Carbon Steel

 M7 for 8.4mm hose  
 M10 for 12mm hose


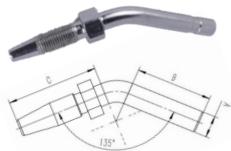
Part number	A	B	C	D	Material
UF-K049 (Short)	$\varnothing 6$	49	18	M7*0.75	Carbon steel, galvanized nickel
UF-K051 (Long)	$\varnothing 6$	64	30	M7*0.75	
UF-K054-Groove	$\varnothing 6$	54	22	M7*0.75	
UF-K053-Groove	$\varnothing 6$	61	30	M7*0.75	

## 6mm Hose Stud 90° Carbon Steel

 M7 for 8.4mm hose  
 M10 for 12mm hose


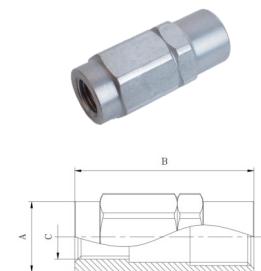
Part number	A	B	C	D	Material
UF-K151 - Groove	$\varnothing 6$	28	45	M7*0.75	Carbon steel, galvanized nickel
UF-K152 - Groove	$\varnothing 6$	25	45	M7*0.75	
UF-K149 (Short)	$\varnothing 6$	21	45	M7*0.75	
UF-K152 (Long)	$\varnothing 6$	33	45	M7*0.75	

## 6mm Hose Stud 45° Carbon Steel



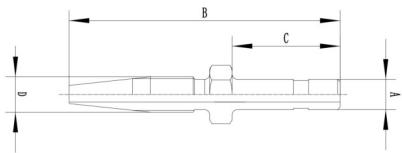
Part number	OD	B	C	D	Material
UF-K-057	$\varnothing 6$	30	57	M7*0.75	Carbon steel, galvanized nickel

## Threaded sleeve Carbon Steel

 M7 for 8.4mm hose  
 M10 for 12mm hose


Part number	OD	A	B	C	Material
UF-K-050	$\varnothing 6/8$	SW12	28	M7*0.75	Carbon steel, galvanized nickel
UF-K-060	$\varnothing 6/8$	SW17	36	M10*1	

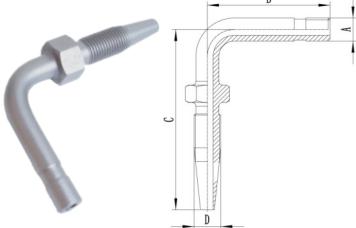
# Fittings & Accessories

 M7 for 8.4mm hose  
 M10 for 12mm hose


## 6mm Hose Stud Straight - Stainless Steel

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


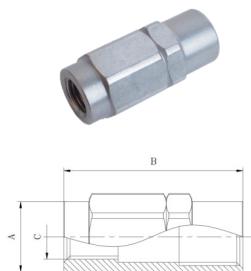
Part number	A	B	C	D	Material
UF-K151-VA - Groove	Ø6	28	45	M7*0.75	Stainless Steel
UF-K152-VA - Groove	Ø6	25	45	M7*0.75	
UF-K149-VA(Short)	Ø6	21	45	M7*0.75	
UF-K152-VA(Long)	Ø8	33	45	M7*0.75	

## 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	

# Fittings & Accessories



## Coupling Nuts Carbon Steel - Galvanized Nickel

## Ferrule



Part number	Thread	TUBE O.D.	MPa	Part number	TUBE O.D.	MPa
UF-104-200	M8*1	Ø4 (SW10)	Super light series LL	UF-104-210-LL	Ø4	Super light series LL
UF-106-200	M10*1	Ø6(SW12)		UF-106-210-LL	Ø6	
UF-106-200L	M12*1.5	Ø6(SW14)	Light series L	UF106-210L	Ø6	Light series L
UF-108-200	M14*1.5	Ø8(SW14)		UF-108-210-LL	Ø8	
UF-108-200-L	M16*1.5	Ø8(SW17)		UF-108-210-L	Ø8	
UF-110-200-L	M18*1.5	Ø10(SW19)		UF-110-210-L2	Ø10	

## Coupling Nuts - Stainless Steel

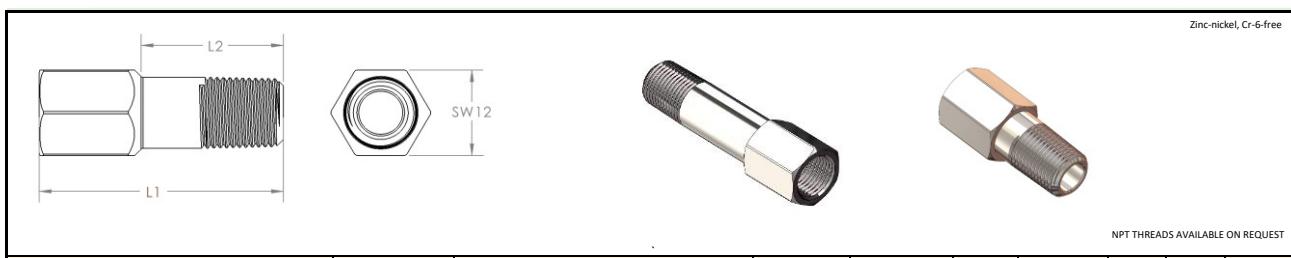


Part number	Thread	TUBE O.D.	MPa
UF-104-200 - VA	M8*1	Ø4	Super light series LL
UF-106-200- VA	M10*1	Ø6	
UF-106-200L- VA	M12*1.5	Ø6	Light series L
UF-108-200- VA	M14*1.5	Ø8	
UF-110-200L- VA	M16*1.5	Ø10	

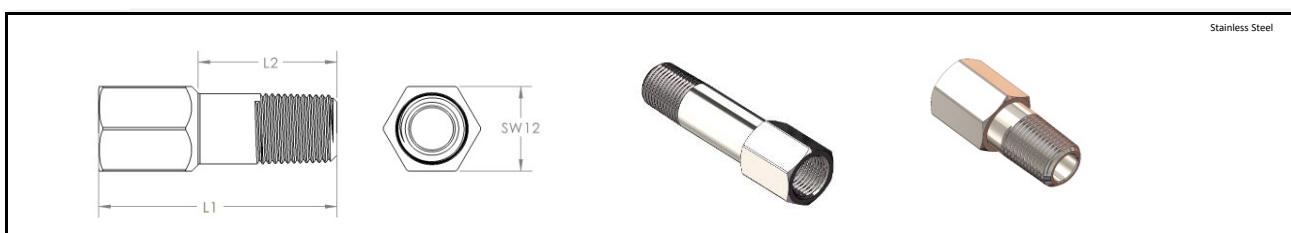
# Fittings & Accessories



## Extensions

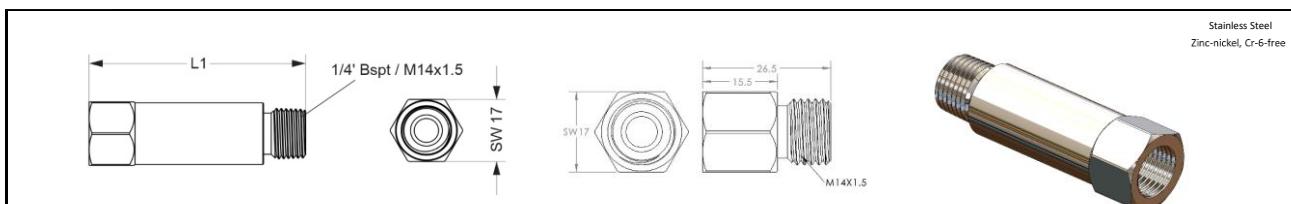


Item Code / UF Code	Alternative Part Number	Description	Dim Ref 1	Dim Ref 2	Manufacture	Pressure
<b>ADAPTORS EXTENSION CONNECTORS MILD STEEL</b>						
UF-004-025	NA	EXTENSION 1/8BSP(F)-1/8BSP(T) MILD STEEL	L1=25MM	L2=11MM	YES	400BAR
UF-004-030	NA	EXTENSION 1/8BSP(F)-1/8BSP(T) MILD STEEL	L1=30MM	L2=16MM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



Item Code / UF Code	Alternative Part Number	Description	Dim Ref 1	Dim Ref 2	Manufacture	Pressure
<b>ADAPTORS EXTENSION CONNECTORS STAINLESS STEEL</b>						
UF-004-0255	NA	EXTENSION 1/8BSP(F)-1/8BSP(T) STAINLESS STEEL	L1=25MM	L2=11MM	YES	400BAR
UF-004-0305	NA	EXTENSION 1/8BSP(F)-1/8BSP(T) STAINLESS STEEL	L1=30MM	L2=16MM	YES	400BAR
UF-004-0355	NA	EXTENSION 1/8BSP(F)-1/8BSP(T) STAINLESS STEEL	L1=35MM	L2=21MM	YES	400BAR
UF-004-0405	NA	EXTENSION 1/8BSP(F)-1/8BSP(T) STAINLESS STEEL	L1=40MM	L2=26MM	YES	400BAR
UF-004-0455	NA	EXTENSION 1/8BSP(F)-1/8BSP(T) STAINLESS STEEL	L1=45MM	L2=31MM	YES	400BAR
UF-004-0505	NA	EXTENSION 1/8BSP(F)-1/8BSP(T) STAINLESS STEEL	L1=50MM	L2=36MM	YES	400BAR
UF-004-0555	NA	EXTENSION 1/8BSP(F)-1/8BSP(T) STAINLESS STEEL	L1=55MM	L2=41MM	YES	400BAR
UF-005-0265	NA	EXTENSION 1/8BSP(F)-1/4BSP(T) STAINLESS STEEL	L1=26MM	L2=12MM	YES	400BAR
UF-005-0405	NA	EXTENSION 1/8BSP(F)-1/4BSP(T) STAINLESS STEEL	L1=40MM	L2=26MM	YES	400BAR
UF-005-0505	NA	EXTENSION 1/8BSP(F)-1/4BSP(T) STAINLESS STEEL	L1=50MM	L2=36MM	YES	400BAR
UF-005-0555	NA	EXTENSION 1/8BSP(F)-1/4BSP(T) STAINLESS STEEL	L1=55MM	L2=41MM	YES	400BAR

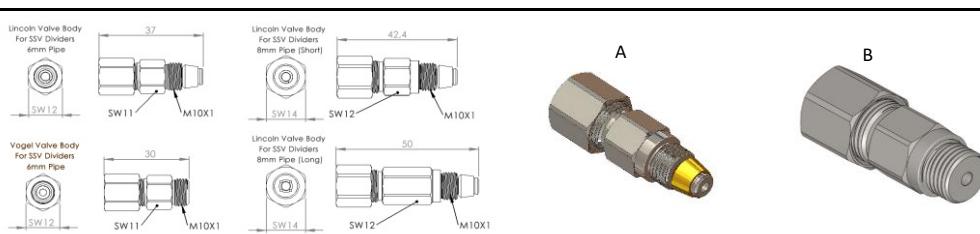
## Pump Element Extensions



Item Code / UF Code	Alternative Part Number	Description	Dim Ref 1	Dim Ref 2	Manufacture	Pressure
<b>PUMP ELEMENT EXTENSIONS MILD STEEL &amp; STAINLESS STEEL</b>						
UF-LPE-MS	NA	Pump Element Lincoln L56.6mm with 1/4' BSPT (M)	L1=56.6MM	HEX=17MM	YES	400BAR
UF-LPE-SS	NA	Pump Element Lincoln L56.6mm with 1/4' BSPT (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' BSPT (M)	L1=41.0MM	HEX=17MM	YES	400BAR
UF-LSPE-SS	NA	Pump Element Lincoln L41.0mm with 1/4' BSPT (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-055	NA	Pump Element extension short M14X1.5 SS	L1=26.5MM	HEX=17MM	YES	400BAR

# Fittings & Accessories

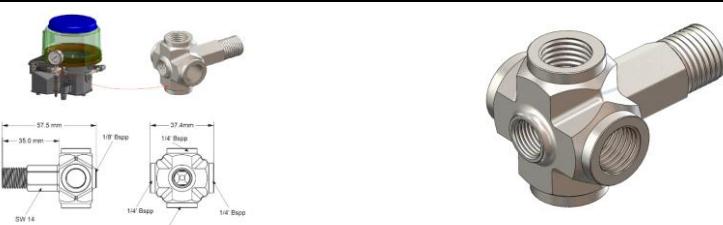
## Valve Body Outlets



Stainless Steel  
Zinc-nickel, Cr-6-free

Item Code / UF Code	Alternative Part Number	Description	Dim Ref 1	Dim Ref 2	Manufacturer	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
<b>CHECK VALVE FOR LUBRICATION DIVIDERS</b>									
UF-106-003-RV	504-30344-4	VALVE BODY LINCOLN 6MM MS (A)		HEX 11MM	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-4LL	223-12295-2	CUTTING RING 6MM MS		LL SERIES	YES	500	107 BAR		
UF-BFVB-001	NA	BRASS FERRULE		ONLY LINCOLN CV	YES	500			
UF-LVBS5-006	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-SLVBS5-08 SHORT	NA	VALVE BODY LINCOLN 8MM SHORT MS (A)	42mm Long	HEX 12MM	YES	500	350BAR		
UF-LVBS5-08 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-SLVBS5-08 SHORT	NA	VALVE BODY LINCOLN 8MM SHORT SS (A)	42mm Long	HEX 12MM	YES	500	350BAR		
UF-LVBS5-08 LONG	NA	VALVE BODY LINCOLN 8MM LONG SS (A)	50mm Long	HEX 12MM	YES	500	350BAR		
UF-CN8-M12L-SS	223-13638-1	COUPLING NUT 8MM SS		HEX 14MM	YES	500			
UF-108RMS-M10	NA	VALVE BODY VOGEL 6MM MS (B)	30mm Long	HEX 11MM	YES	500	350BAR		
UF-108BSS-M10	NA	VALVE BODY VOGEL 6MM SS (B)	30mm Long	HEX 11MM	YES	500	350BAR		
UF-RVRMS-1/08SPT	NA	RAASM VALVE BODY 6MM MS (B)	32mm Long	HEX 11MM	YES	500	350BAR		
UF-RVBS5-1/08SPT	NA	RAASM VALVE BODY 6MM SS (B)	32mm Long	HEX 11MM	YES	500	350BAR		
UF-BU1VBS5-08 Short	NA	RAASM VALVE BODY 8MM MS SHORT (B)		HEX 12MM	YES	500	350BAR		
UF-BU1VBS5-08 Long	NA	RAASM VALVE BODY 8MM SS SHORT (B)		HEX 12MM	YES	500	350BAR		
UF-BU1VBS5-08 Long	NA	VOGEL VALVE BODY 8MM MS LONG (B)		HEX 12MM	YES	500	350BAR		
UF-BU1VBS5-08 Long	NA	VOGEL 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	Manufacturer	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
<b>ADAPTORS 6 WAY T LONG</b>									
UF-6WT-L1MS-1/4BSP	NA	6 WAY ADAPTOR 1/4BSP - LINCOLN - MS	L1=57.5MM	HEX 14MM	YES	100	600 BAR		
UF-6WT-L1SS-1/4BSP	NA	6 WAY ADAPTOR 1/4BSP - 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		



Stainless Steel  
Zinc-nickel, Cr-6-free

Item Code / UF Code	Alternative Part Number	Description	Dim Ref 1	Dim Ref 2	Manufacturer	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
<b>ADAPTORS 6 WAY T SHORT</b>									
UF-6WT-L1MS-1/4BSP	NA	6 WAY ADAPTOR 1/4BSP - LINCOLN - MS	L1=41MM	HEX 14MM	YES	100	600 BAR		
UF-6WT-L1SS-1/4BSP	NA	6 WAY ADAPTOR 1/4BSP - LINCOLN - SS	L1=41MM	HEX 14MM	YES	100	600 BAR		
UF-6WT-VS5-M14X1.5	NA	6 WAY ADAPTOR 14X1.5 - VOGEL - MS	L1=41MM	HEX 14MM	YES	100	600 BAR		
UF-6WT-VSS5-M14X1.5	NA	6 WAY ADAPTOR 14X1.5 - VOGEL - SS	L1=41MM	HEX 14MM	YES	100	600 BAR		

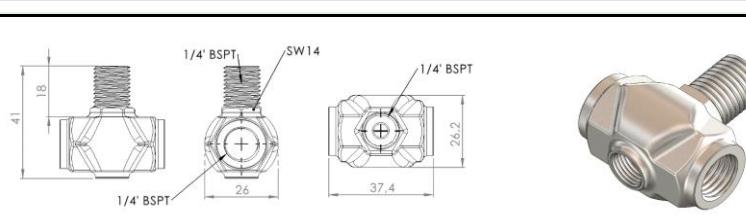
# Fittings & Accessories

## 3 Way adaptor Extensions long



Stainless Steel  
Zinc-nickel, Cr-6-free

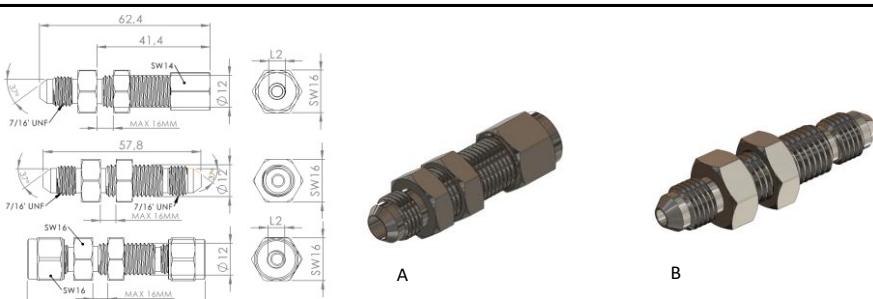
Item Code / UF Code	Alternative Part Number	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
<b>ADAPTORS 3 WAY T LONG</b>									
UF-3WT-LLMS-1/4BSPT	NA	3 WAY ADAPTOR 1/4BSP - LINCOLN - MS	LENGTH=77MM	HEX 14MM	YES	100	600 BAR		
UF-3WT-LSS-1/4BSPT	NA	3 WAY ADAPTOR 1/4BSP - 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-VSS-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
<b>ADAPTORS 3 WAY T SHORT</b>									
UF-3WT-LLMS-1/4BSPT	NA	3 WAY ADAPTOR 1/4BSP - LINCOLN - MS	LENGTH=41MM	HEX 14MM	YES	100	600 BAR		
UF-3WT-LSS-1/4BSPT	NA	3 WAY ADAPTOR 1/4BSP - LINCOLN - SS	LENGTH=41MM	HEX 14MM	YES	100	600 BAR		
UF-3WT-VLMS-M14X1.5	NA	3 WAY ADAPTOR 14X1.5 - VOGEL - MS	LENGTH=41MM	HEX 14MM	YES	100	600 BAR		
UF-3WT-VSS-M14X1.5	NA	3 WAY ADAPTOR 14X1.5 - VOGEL - SS	LENGTH=41MM	HEX 14MM	YES	100	600 BAR		

## Bulkhead Connectors



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
<b>BULKHEAD CONNECTORS JIC 37° &amp; GEL SERIES</b>									
UF-BH7/16-GE8LMS	REF: A	BULKHEAD CONNECTOR 7/16" TO CONNECT TO 6MM PIPE	12.5MM	L2=6MM	YES	100	500BAR		
UF-BH7/16-Ge8LSS	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-BH7/16-716MS	REF: B	BULKHEAD CONNECTOR 7/16" TO CONNECT 7/16" JIC	12.5MM	7/16" UNF	YES	100	500BAR		
UF-BH7/16/IC-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-GE6LMS	REF: C	BULKHEAD CONNECTOR 6MM PIPE TO CONNECT TO 8MM PIPE	12.5MM	L1=8MM, L2=6MM	YES	100	500BAR		
UF-GE6L-Ge6LSS	REF: C	BULKHEAD CONNECTOR 6MM PIPE TO CONNECT TO 8MM PIPE	12.5MM	L1=8MM, L2=6MM	YES	100	500BAR		

# Fittings & Accessories



## 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-E31-SS	NA	3 WAY T STAINLESS STEEL			YES	50	600 BAR		

Stainless Steel

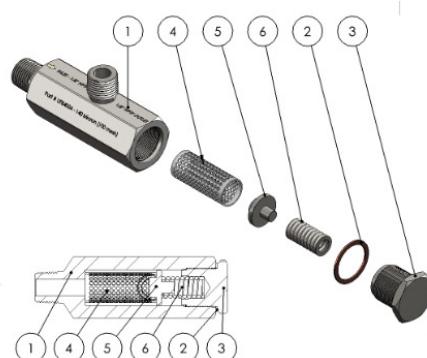
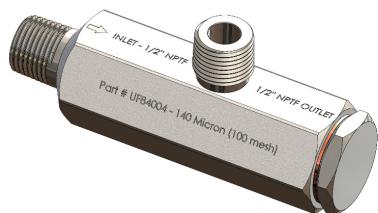
Item Code / UF Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture	Minimum Qty Req	Pressure	Price Rands	US Dollar Price
3 WAY T	Alternative Part Number	3 WAY T STAINLESS STEEL S SERIES	DIMENSION	DIMENSION					
UF-E7/16T	NA	3 WAY 7/16' T WITH SWIVEL STAINLESS STEEL			YES	50	300 BAR		

# Fittings & Accessories

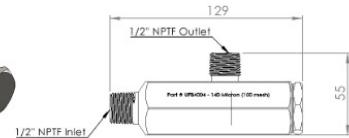


Grease filter : 140µm 100 Mesh - UF-84004.....Grease Filter 250µm - UF-84013

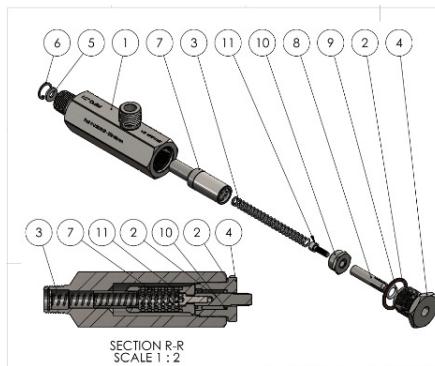
UF-84004



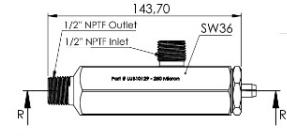
ITEM NO.	DESCRIPTION	PART #	QTY.
1	Main Body 84004	UFMDF-84004	1
2	Copper Washer 84004	UFCW-84004	1
3	End Cap 84004	UFEC-84004	1
4	Filter Cartridge 140 micron (100 Mesh)	UFFC-84004	1
5	Spring Support 84004	UFSS-84004	1
6	Main Spring 84004	UFMS-84004	1



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	UFSW616	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	Cuphead M5X16 SS	UFCHSM5X16	1



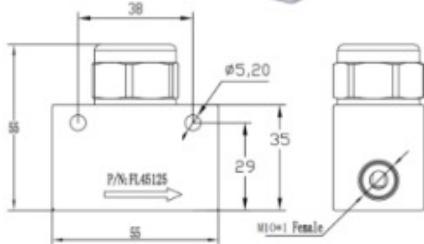
Complies to general & driven Machinery Regulations - DMR & GMR

Grease filter: 180µm and 125µm

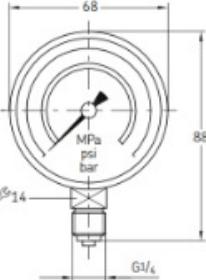


Part number	Rate	Thread F	Material
UF-AL45180	180µm	M10*1	AL
UF-AL45125	125µm	M10*1	

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



## Pressure Gauges





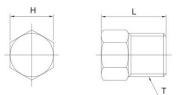
Stainless Steel  
Glycerin filled

Item Code / UF Code	REFERENCE TO PART	Description	Dim Ref 1	Dim Ref 2	Manufacture	Pressure	
<b>PRESSURE GAUGES STAINLESS STEEL</b>							
UF-PGSS-40	169-104-015	PRESSURE GAUGE 0-40 BAR SS	HEX 14MM	L-88MM	YES	0-40BAR	
UF-PGSS-60	169-106-015	PRESSURE GAUGE 0-60 BAR SS	HEX 14MM	L-88MM	YES	0-60BAR	
UF-PGSS-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-PGSS-400	169-140-001	PRESSURE GAUGE 0-400 BAR SS	HEX 14MM	L-88MM	YES	0-400BAR	
UF-PGSS-600	NA	PRESSURE GAUGE 0-600 BAR SS	HEX 14MM	L-88MM	YES	0-600BAR	

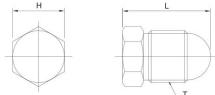
# Fittings & Accessories



Closure plug - (Brass)



Sleeve plug - (Brass)



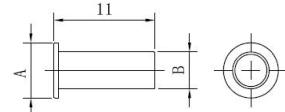
Part number	L	T	H
UF-3G0408	12	M8*1.0	8
UF-3G0601	14	PT1/8"	10

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

Straight Fitting assembly - (Brass)



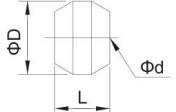
Re-enforcing tube - (Brass)



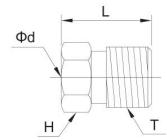
Part number	OD	Thread
UF-3D0410T	Ø4	M10*1
UF-3D0610T	Ø6	M10*1
UF-3D0408T	Ø4	M8*1.0
UF-3D0406T	Ø4	M6*1.0

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

Cone Ferrule - (Brass)



Nut Adaptor - (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

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



Nylon tubing (BP in black; WP in white )



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

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



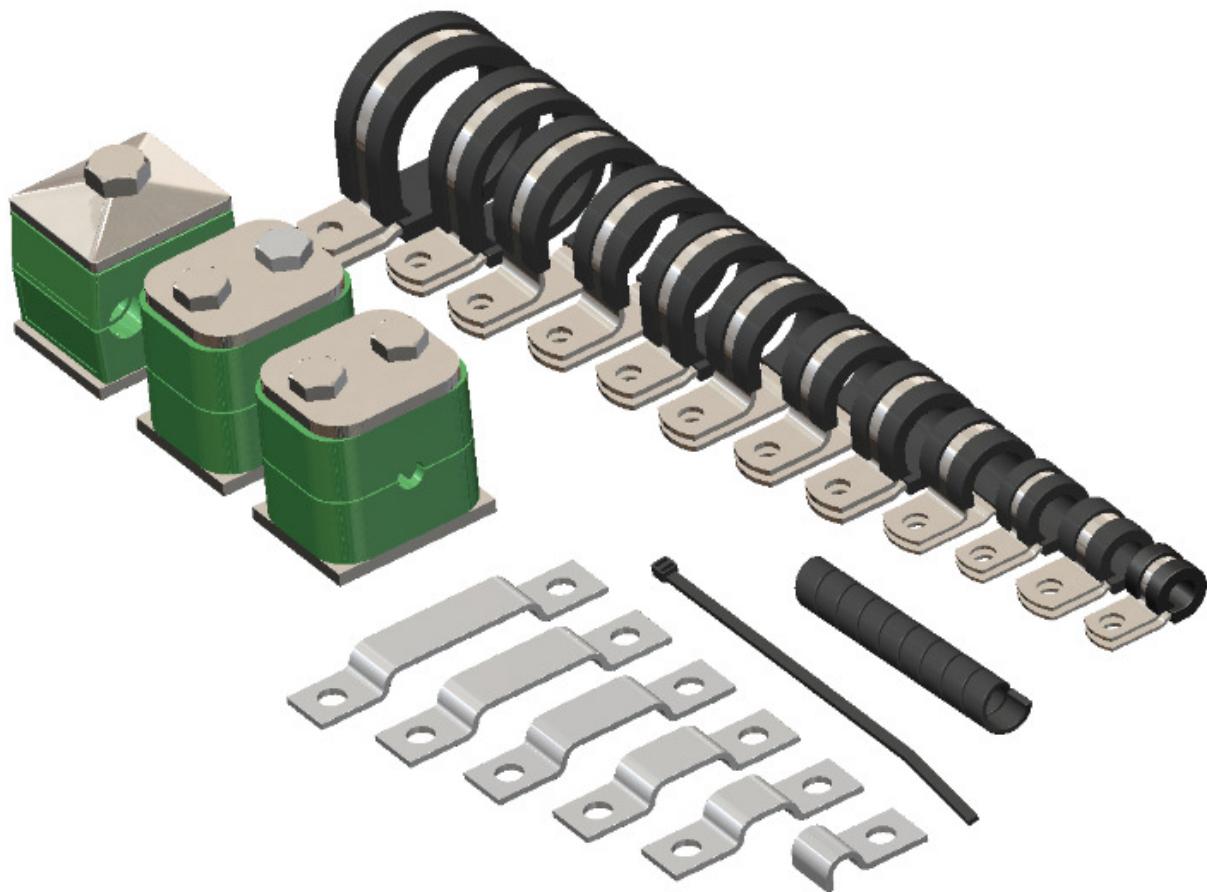
Pipe Protective Spring coil



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

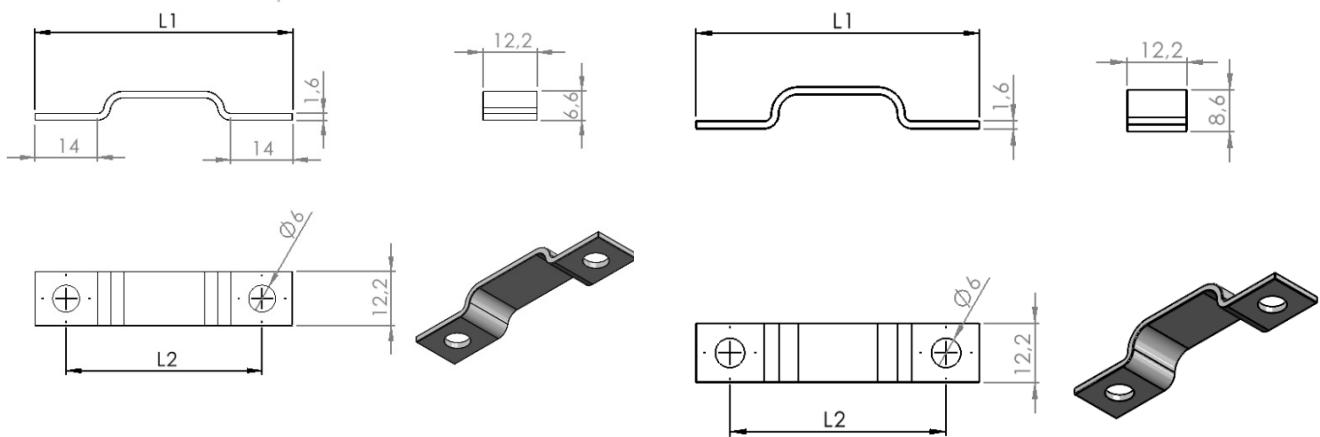
Part number	Ød	Suitable pipe outer diameter
UF-THT04	4.5	4
UF-THT06	6.5	6
UF-THT08	11	9.3

## Pipe & Tubing Fixtures



6mm Steel Pipe Clamp Dims

6mm Steel Pipe Clamp Dims



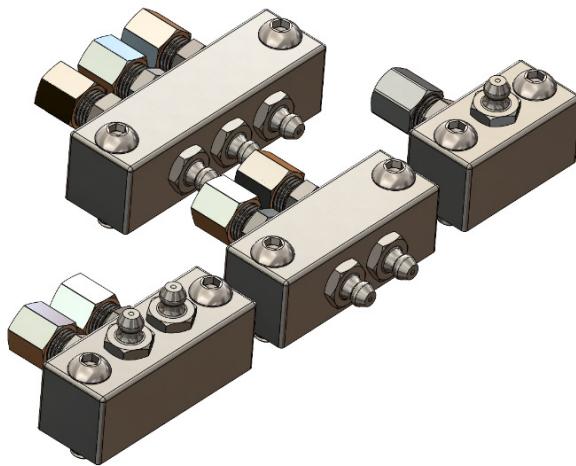
## Steel Pipe Clamps Mild Steel for 6 &amp; 8mm Pipes- Galvanized Nickel

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 &amp; 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

# Fittings & Accessories



Spiralwrap



R Pipe clamp



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

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

Cable tie

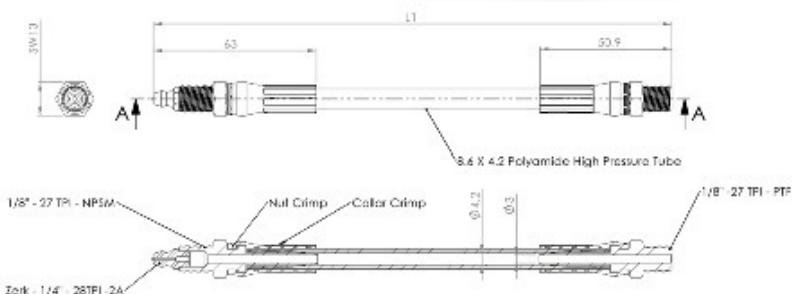


Part number	Width	Length	Material
UF-ZDCH5200	5	200	Nylon
UF-ZDCH5300	5	300	
UF-ZDCH5500	5	500	

# Fittings & Accessories



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

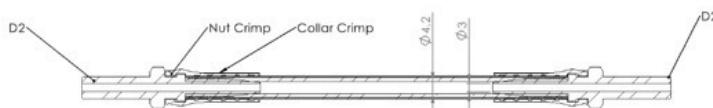


Item Code	Alt Item Code	Description	Dim Ref L1	Dim Ref 2	Max Pressure
UF-CZF-200MS		Crimped Sleeve for 8.4mm hose	L1=200mm	1/8 BSPT	350 Bar
UF-CZF-250MS		Crimped Sleeve for 8.4mm hose	L1=250mm	1/8 BSPT	350 Bar
UF-CZF-300MS		Crimped Sleeve for 8.4mm hose	L1=300mm	1/8 BSPT	350 Bar
UF-CZF-400MS		Crimped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

# Fittings & Accessories



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

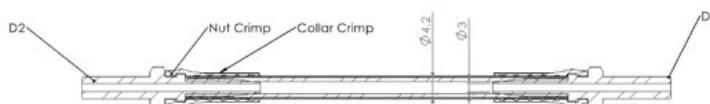


Item Code	Alt Item Code	Description	Dim Ref L1	Dim Ref 2	Max Pressure
UF-6F-200MS		Crimped Sleeve for 8.4mm hose	L1=200mm	6MM	350 Bar
UF-6F-250MS		Crimped Sleeve for 8.4mm hose	L1=250mm	6MM	350 Bar
UF-6F-300MS		Crimped Sleeve for 8.4mm hose	L1=300mm	6MM	350 Bar
UF-6F-400MS		Crimped Sleeve for 8.4mm hose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

# Fittings & Accessories



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

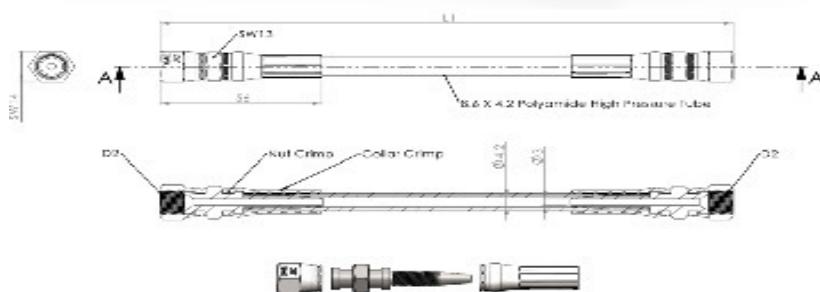


Item Code	Alt Item Code	Description	Dim Ref L1	Dim Ref 2	Max Pressure
UF-8F-200MS		Crimped Sleeve for 8.4mm hose	L1=200mm	8MM	350 Bar
UF-8F-250MS		Crimped Sleeve for 8.4mm hose	L1=250mm	8MM	350 Bar
UF-8F-300MS		Crimped Sleeve for 8.4mm hose	L1=300mm	8MM	350 Bar
UF-8F-400MS		Crimped Sleeve for 8.4mm hose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

# Fittings & Accessories



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

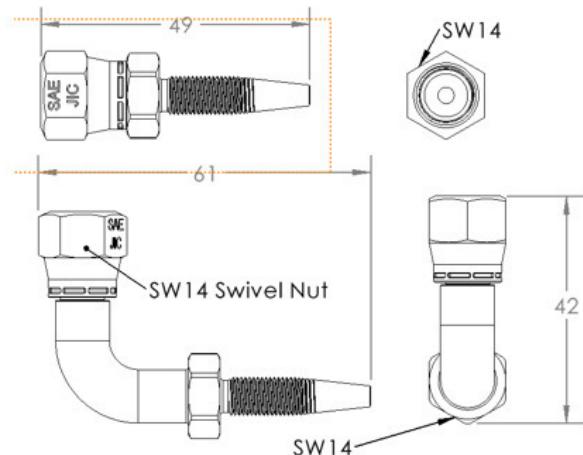
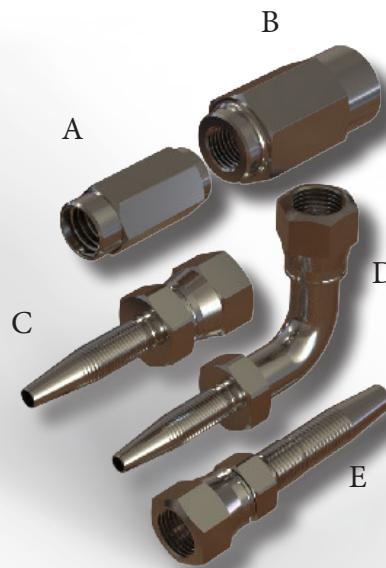


Item Code	Alt Item Code	Description	Dim Ref L1	Dim Ref 2	Max Pressure
UF-JIC-200MS		Crimped Sleeve for 8.4mm hose	L1=200mm	7/16' UNF	350 Bar
UF-JIC-250MS		Crimped Sleeve for 8.4mm hose	L1=250mm	7/16' UNF	350 Bar
UF-JIC-300MS		Crimped Sleeve for 8.4mm hose	L1=300mm	7/16' UNF	350 Bar
UF-JIC-400MS		Crimped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

# Fittings & Accessories



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

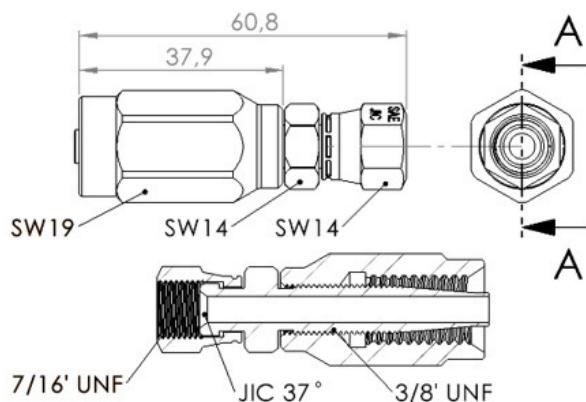
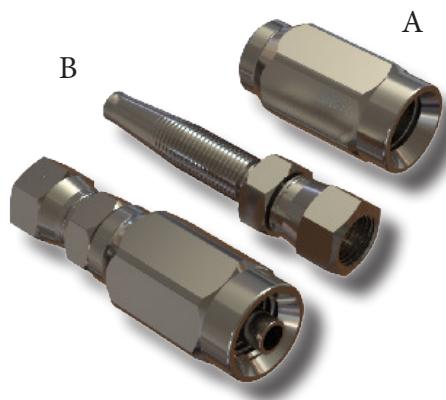


Item Code	Description	Dim Ref L1	Dim Ref 2	Max Pressure
UF-08MS-JIC	JIC Swivel Insert for 8.4mm Hose Str.	Hex=14	C	400 Bar
UF-08SS-JIC	JIC Swivel Insert for 8.4mm Hose Str.	Hex=14	C	400 Bar
UF-08MS-JIC90	JIC Swivel Insert for 8.4mm Hose 90°	Hex=14	D	400 Bar
UF-08SS-JIC90	JIC Swivel Insert for 8.4mm Hose 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

# Fittings & Accessories



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

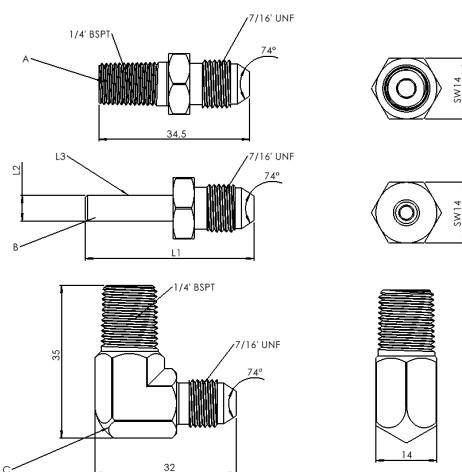
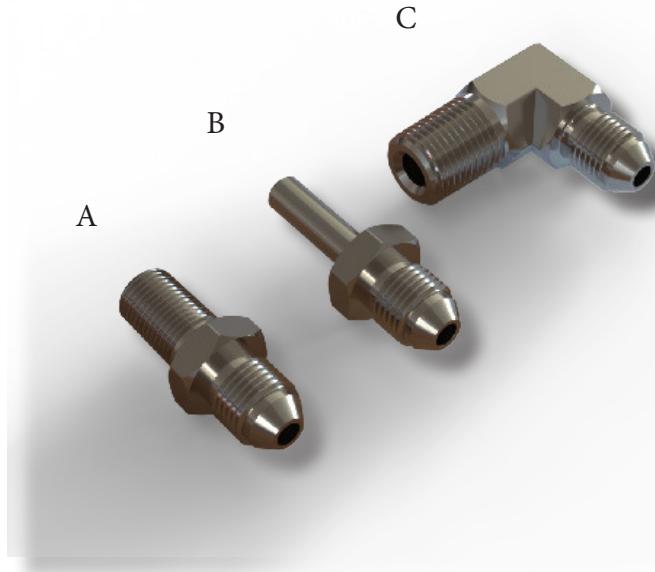


Item Code	Description	Dim Ref L1	Dim Ref 2	Max Pressure
UF-R1INS-7/16MMS	R1 Insert with 7/16 Swivel 37° Stud 3/8 UNF MS	Hex=14, Sleeve 19	A	350 Bar
UF-R1INS-7/16MSS	R1 Insert with 7/16 Swivel 37° Stud 3/8 UNF SS	Hex=14, Sleeve 19	A	350 Bar
UF-R1S-SS	7/16 JIC Threaded Sleeve - R1(1/4") Hose SS	Hex 19mm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

# Fittings & Accessories



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-18-90MS	7/16 JIC to 1/8 BSPT elbow Nipple MS	-	C	350 Bar
UF-JIC-18-90SS	7/16 JIC to 1/8 BSPT elbow Nipple SS	-	C	350 Bar
UF-JIC-14-90MS	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)

### Single Point Remote Installation

Max. 6m (20ft) with Ø4 tube

### Power Supply

DC 4.5V Battery Pack (replaceable)

### Multi-Point Installation

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

### Operating Pressure

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

### Product Certifications & IP Code

IP54

### Operating Temperature

Standard Alkaline Battery :

-15°C~60°C (5°F~140°F)

Optional Lithium Battery :

-40°C~60°C (-40°F~140°F)

### Oil Viscosity Range

10~10,000 cSt@40°C

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

### Dispensing Periods

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

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, Unrivaled 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)

### Dispensing Periods

1~12 month

### Power Supply

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

### Single Point Remote Installation

Max. 10m (33ft) with Ø6 tube

### Operating Pressure

30~60bar (435~870psi)

### Multi-Point Installation

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

### 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 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

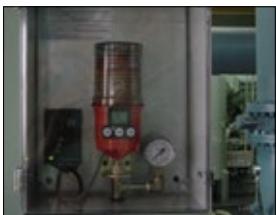
#### Cost Savings

- ▶ 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 & automotives
- 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.

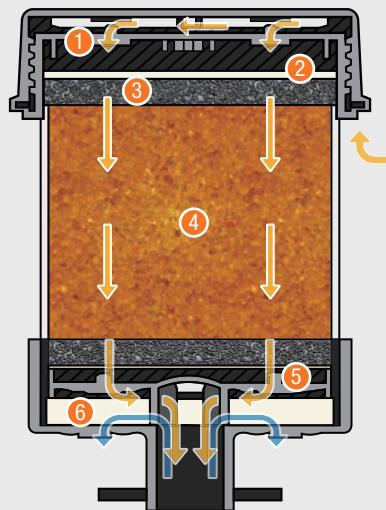


### Design & Features

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**

▼ From the left AB-PX102, 101, 100

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



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

 **Bluetooth®**

Series

**BT60/BT120/BT240**



KLT Co., Ltd.  
型号(Model):  
BT60 CMIT ID: 2019DJ0846  
BT120 CMIT ID: 2019DJ0847  
BT240 CMIT 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

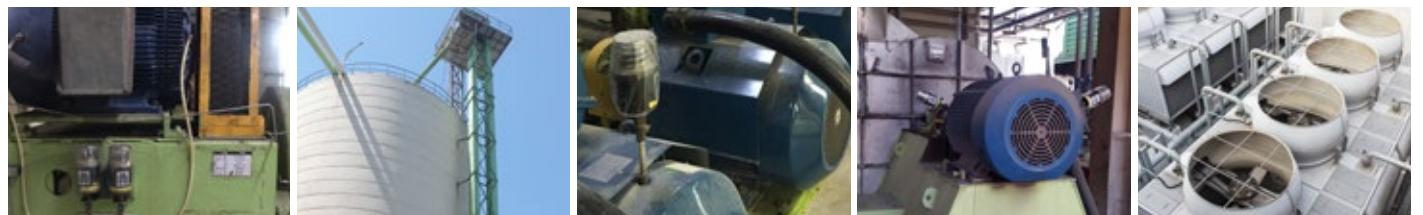
#### Safe Working Environment

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)

Rev.05

Series  
EXPL60/EXPL120/EXPL240/EXPL480



CE  $\bigcirc\!\!\!Ex$  K<sup>s</sup> 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

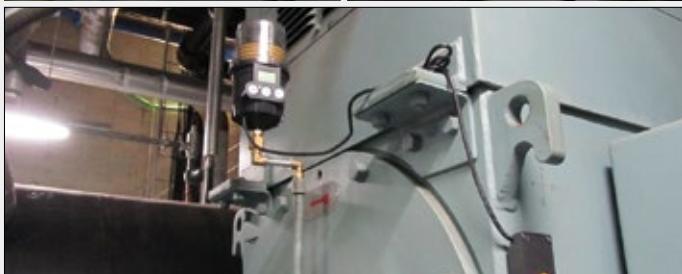
#### More Reliable & Precise Lubrication

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)

#### Multi-Point Installation

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

#### Power Supply

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

#### Dispensing Volume Size

0.34ml/stroke (@20°C/68°F)

#### Operating Pressure

30~60bar (435~870psi)

#### Product Certifications & IP Code

CE / KC

#### Operating Temperature

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

#### Vibration Detector

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

#### Dispensing Periods

1~12 month

#### Service Life of Battery Pack

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

#### Single Point Remote Installation

Max. 1m (3.3ft) with Ø6 tube

#### Product Dimensions

183mm (H) x 91mm (Ø)

\*Excludes Vibration Sensor

Series  
PLC60/PLC120/PLC240/PLC480



CE K 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

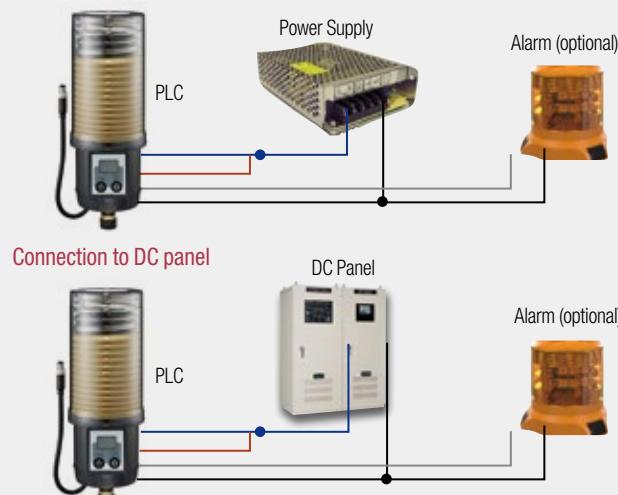
The user can program the dispensing rate based on the operating time of the equipment (INTERVAL type)

### 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)



### Overview

### Product Specifications



#### Grease Pouch Capacity

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

#### Power Supply

9~36V DC (DC/DC Convertor 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)

INTERNAL 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  $\bigcirc$  Ex  $\mathbb{K}^s$  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)
- NEPSI : Ex ic IIC T5/T4 Gc (CN)
- ATEX : II 3 G Ex ic IIC T5/T4 Gc (EU)
- KCs : Ex ic IIC T5/T4 (KR)

#### 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

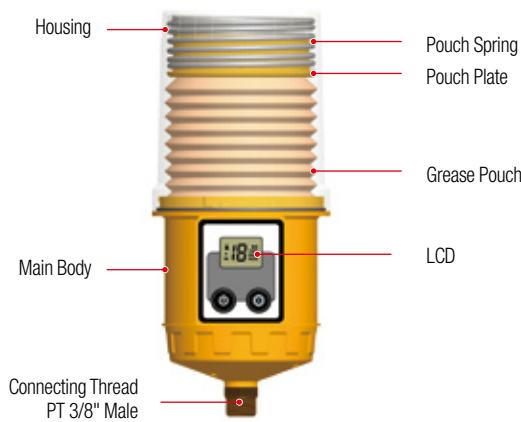
- Selectable grease pouch capacity & dispensing periods suitable for installations
- Auto Lock Out mode to prevent unintentional mode changes
- Easy to check LCD displays with backlight function

### 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

### 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

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