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# LUBRICATION SYSTEM FOR AGRICULTURE MACHINERY



2025 V1.0  
LUBRICATION SYSTEM  
FOR  
AGRICULTURE  
MACHINERY

Yantai Ciso Lubrication Technology Co.,Ltd  
[www.cisolube.com](http://www.cisolube.com)  
Tel:+86 400-800-9400

# Company Introduction



## Company<sup>+</sup>

### Introduction

Yantai Ciso Lubrication Technology Co., Ltd. is a high-tech enterprise specializing in R&D, production and sales of centralized lubrication systems and hydraulic equipment. The centralized lubrication systems produced by our company have the characteristics of high stability, strong reliability, good sealing, and high output pressure. The products and services currently have covered petrochemical, wind power generation, construction machinery, agricultural machinery, rail transit, medicine and other industries, and it is a leading solution provider in the industry.

The company adheres to the concept of "integrity-based, quality first, and continuous innovation" to provide customers with A+ ideal solutions to meet the different needs of customers. Through years of research and development and production practice, from product design to accessories selection, product assembly, finished product testing and sales services, to ensure product quality.

# Certificate



### MACHINERY DIRECTIVE ATTESTATION OF CONFORMITY

Technical file of the company mentioned below has been inspected and audit has been completed successfully.

2006/42/EC Machinery Directive Annex VII has been taken as reference for these processes.

Company Name: **Yantai CISO Lubrication Technology Co., Ltd**

Company Address: No.33, Changyue Road, Gaoxin District, Yantai City, Shandong Province, China

Related Directives and Annex: **2006/42/EC Machinery Directive/Annex VII**

Related Standards: **EN ISO 12100:2010 EN 60204-1:2016 EN 609 1198-A1:2009**

Product Name: **Electric lubrication pump**

Report No and Date: **E4Y0320212FM**

Product Brand/Model/Type: **DF PLUS GM GW/GI/MAX/GP-212**

Certificate Number: **M 2023.204 C09410**

Initial Assessment Date: **23.08.2023**

Registration Date: **24.08.2023**

Business Category: **UDM International Certification Auditing Training Centre Industry and Trade No. C26**

Expiry Date: **23.08.2028**

Signature: *[Handwritten Signature]*




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Related Directives and Annex: **2006/42/EC Machinery Directive/Annex VII**

Related Standards: **EN ISO 12100:2010 EN 60204-1:2016**

Product Name: **Distributor**

Report No and Date: **E4Y0320212FM**

Product Brand/Model/Type: **DSF 009F 23SG DS**

Certificate Number: **M 2023.204 C09411**

Initial Assessment Date: **24.08.2023**

Registration Date: **24.08.2023**

Business Category: **UDM International Certification Auditing Training Centre Industry and Trade No. C26**

Expiry Date: **24.08.2028**

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Related Directives and Annex: **2006/42/EC Machinery Directive/Annex VII**

Related Standards: **EN ISO 12100:2010 EN 60204-1:2016 EN 609 1198-A1:2009**

Product Name: **Mechanical drive lubrication pump**

Report No and Date: **E4Y0320212FM**

Product Brand/Model/Type: **PMW PMW/PM**

Certificate Number: **M 2023.204 C09412**

Initial Assessment Date: **23.08.2023**

Registration Date: **24.08.2023**

Business Category: **UDM International Certification Auditing Training Centre Industry and Trade No. C26**

Expiry Date: **23.08.2028**

Signature: *[Handwritten Signature]*




### CERTIFICATE

N. CN23 - 24511C

This is to certify that the Occupational Health and Safety Management System of

**Yantai CISO Lubrication Technology Co., Ltd.**

Unified audit code: 91370604MA3M7NGAGY

Registered Address: No.33, Wotian Road, High-tech Zone, Yantai, Shandong

Office & Production Address: No.33, Changyue Road, High-tech Zone, Yantai, Shandong, China

Has been independently assessed and found in conformance with the standard

**ISO 45001:2018**

For the following scope of activities:

**Design and Processing of Ordinary Mechanical Equipment (Lubrication Pump System, Hydraulic System)**

DAF #:

For further and updated information regarding any changes in the scope of the certified system please refer to the website: [www.daf-certification.com](http://www.daf-certification.com) or contact the DAF office directly. The validity of this certificate is subject to periodic surveillance audits and renewal in accordance with the relevant requirements of the certified system.

Date of first registration: 01/06/2023

Date of last certificate: 01/06/2024

Date of expiry: 01/06/2026

Signature: *[Handwritten Signature]*







### CERTIFICATE

N. CN23 - 24511B

This is to certify that the Environmental Management System of

**Yantai CISO Lubrication Technology Co., Ltd.**

Unified audit code: 91370604MA3M7NGAGY

Registered Address: No.33, Wotian Road, High-tech Zone, Yantai, Shandong

Office & Production Address: No.33, Changyue Road, High-tech Zone, Yantai, Shandong, China

Has been independently assessed and found in conformance with the standard

**ISO 14001:2015**

For the following scope of activities:

**Design and Processing of Ordinary Mechanical Equipment (Lubrication Pump System, Hydraulic System)**

DAF #:

For further and updated information regarding any changes in the scope of the certified system please refer to the website: [www.daf-certification.com](http://www.daf-certification.com) or contact the DAF office directly. The validity of this certificate is subject to periodic surveillance audits and renewal in accordance with the relevant requirements of the certified system.

Date of first registration: 01/06/2023

Date of last certificate: 01/06/2024

Date of expiry: 01/06/2026

Signature: *[Handwritten Signature]*







### 质量管理体系证书

证书编号: 2023-12-20-01

**烟台西索润滑技术有限公司**

统一社会信用代码: 91370604MA3M7NGAGY

注册地址: 山东高新区科技路二路33号

审核地址: 山东高新区科技路二路33号

审核日期: 2023年12月20日

质量管理体系符合:

**GB/T19001-2016/ISO 9001:2015**

认证范围: 润滑系统(润滑站、换油站)的设计、加工制造及相关管理活动

证书有效期: 2027年12月20日

发证日期: 2023年12月20日

证书编号: 000-24-08-20040-00-5

发证日期: 2023年12月20日

认证机构: 中国合格评定国家认可委员会 (CNAS)

管理体系: MANAGEMENT SYSTEM CNAS C256-M

负责人: *[Handwritten Signature]*

注: 每年进行一次监督审核, 审核合格后方可继续获证, 证书有效期内, 证书持有人应遵守认证机构的所有规定, 证书持有人应遵守认证机构的法律法规, 证书持有人应遵守认证机构的认证协议, 证书持有人应遵守认证机构的认证协议, 证书持有人应遵守认证机构的认证协议。






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# Grease lubrication system

Grease lubrication system is mainly divided into two kinds, one is electric centralized lubrication system, The second is the manual centralized lubrication system. The biggest difference between the two systems is the electric system The dynamic degree is higher, and the detection function can be realized.



Main components of system

GT pump



- Electric high voltage、 Max. 35Mpa
- Max. 5 Unit of pump outlets
- Controller available
- Oil-NLGI2#Grease
- The pump body is strong and UV resistant

GM pump



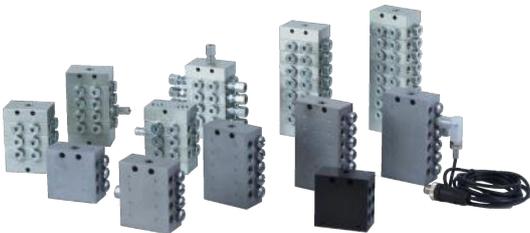
- Electric high voltage、 Max. 25Mpa
- Max. 5 Unit of pump outlets
- Controller available
- Progressive and Single-line lubrication system
- Smaller mounting size
- The pump body is strong and UV resistant

GW pump



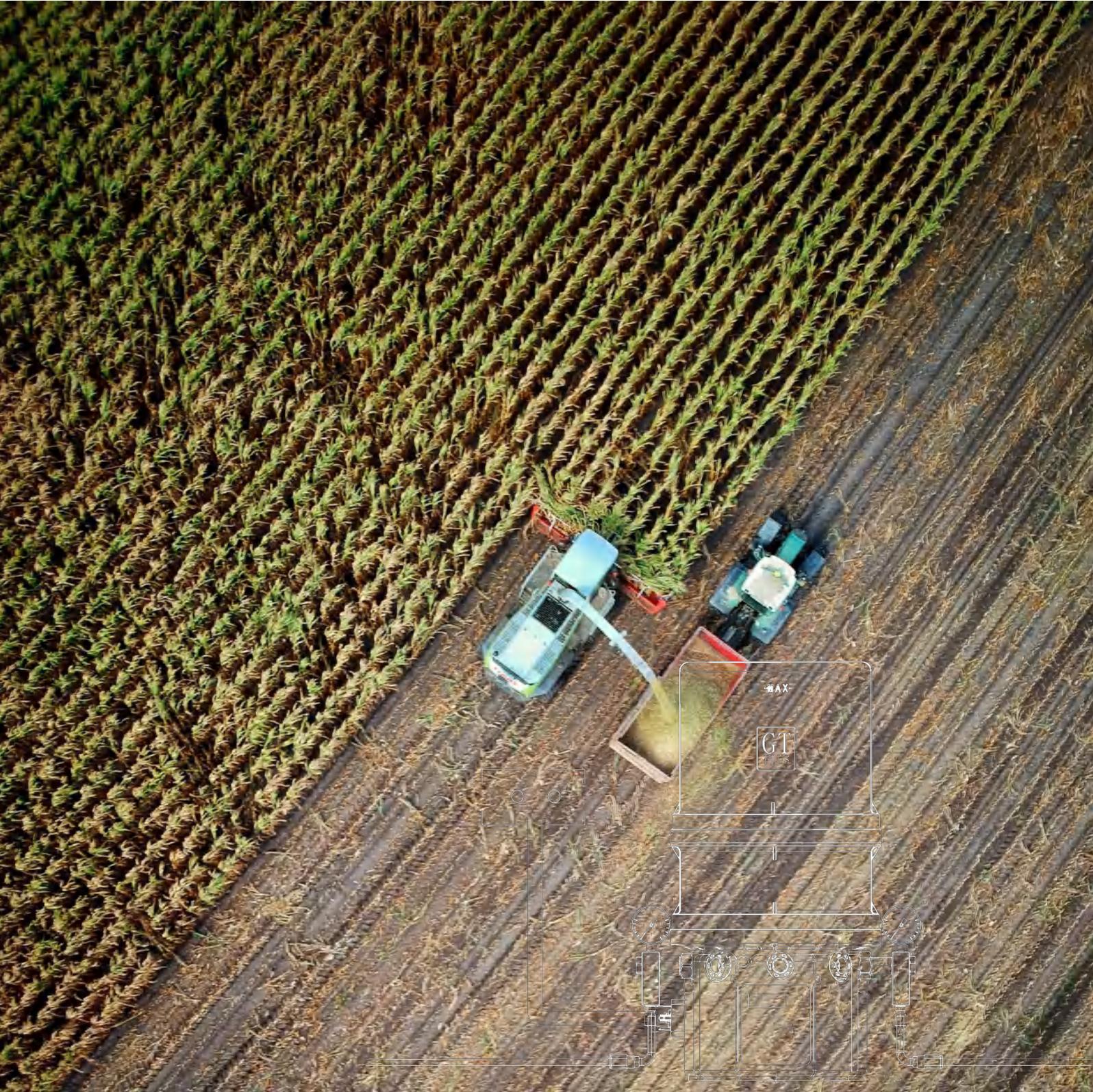
- With top cover, easy to fill oil
- Electric high voltage、 Max. 35Mpa
- Max. 5 Unit of pump outlets
- Controller available
- Oil-NLGI2#Grease
- The pump body is strong and UV resistant

Progressive distributor



The pump makes the lubricant flow from the main road to the progressive distributor at all levels, "progressive" delivery to each lubrication point. The working cycle of the progressive distributor is monitored by a visual or electronic control system





# GT PUMP

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

## THE SMALL PUMP PACKAGE WITH BIG FEATURES

### DESIGN AND ADVANCED SOLUTIONS

GT pump is a piston pump predisposed to operate with a maximum of five pumping units, 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.

**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

- Pump oil and grease
- Reservoirs: 2L、 4L、 6L、 8L、 12L
- Voltages: 12VDC、 24VDC、 90-240VAC
- 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

.....

### TECHNICAL CHARACTERISTICS

Unit of pump outlets	Max 5 outlets
Outlet thread	G1/4
Rated flow	2ml、 3ml、 4ml/min
Operating pressure	35MPa Max
Reservoir Capacity	2、 4、 6、 8、 12L
Lubricants	OIL、 000、 00、 0、 1、 2
Operating temperatures	-50 - 90°C*

\* When the operating temperature is below -20 ° C, please use low temperature grease



Control System:



**Basic function**

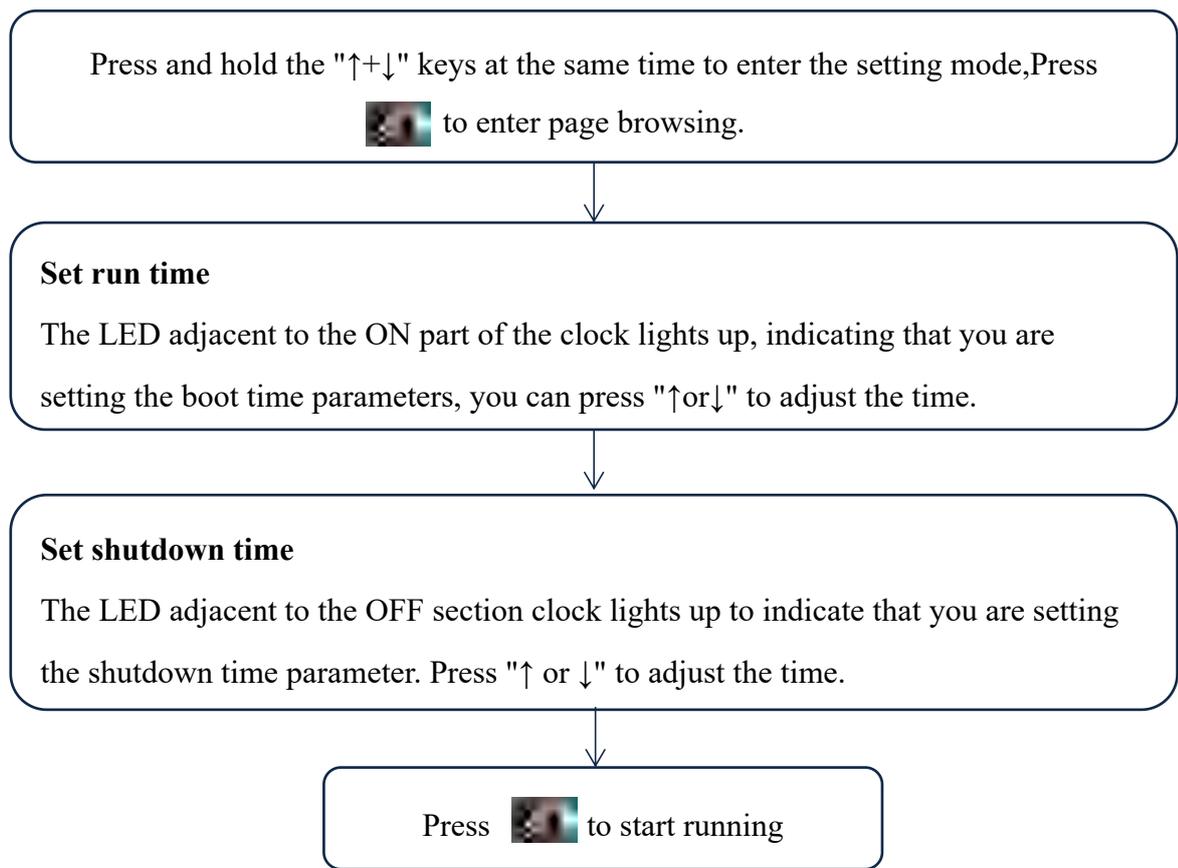
- 1 Easy to read LED display
- 2 Legible on/off instructions
- 3 Reset function
- 4 Easy to use navigation keys
- 5 Alarm signal of lube system shutdown
- 6 Warning signal prior to lube system shutdown
- 7 Low level indication
- 10 Manually run/Confirm

**Custom function**

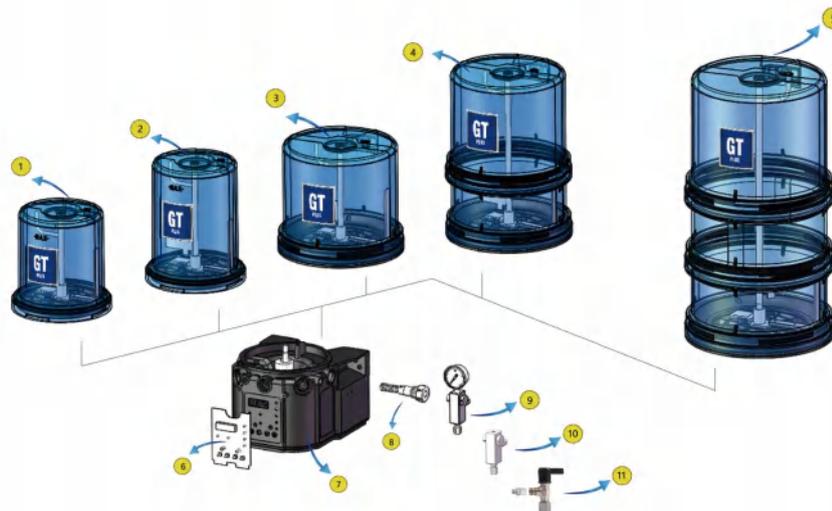
- 8 Access to the control device is password protected
- 9 Pre-lube capability

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

- Clear panel
- Programs that can be designed
- It can be password protected
- Sound alarm
- Low level alarm
- Accept proximity switch
- Excellent shock resistance
- pre lubrication button

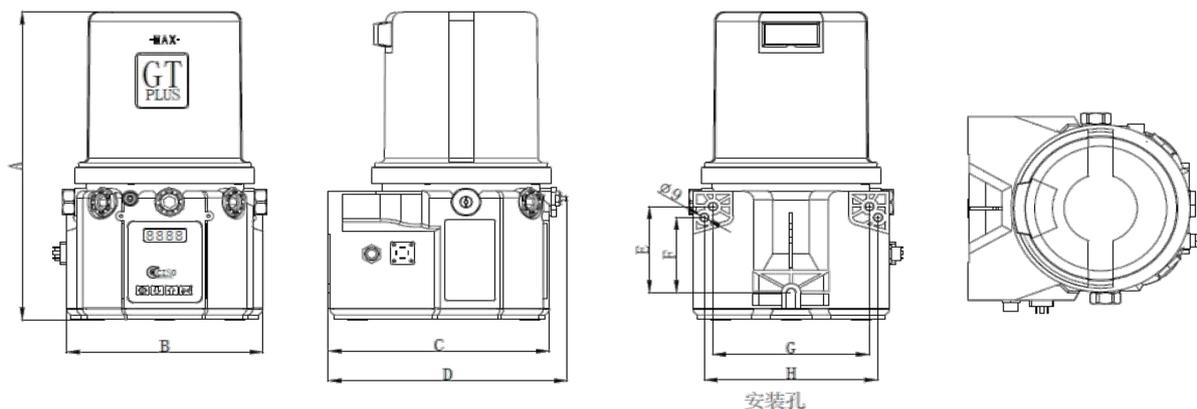


GT Pump



NO.	PART	NO.	PART
1	2L Pump Tank	7	Pump base
2	4L Pump Tank	8	PLUS 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	With Relief valve
6	Control panel		

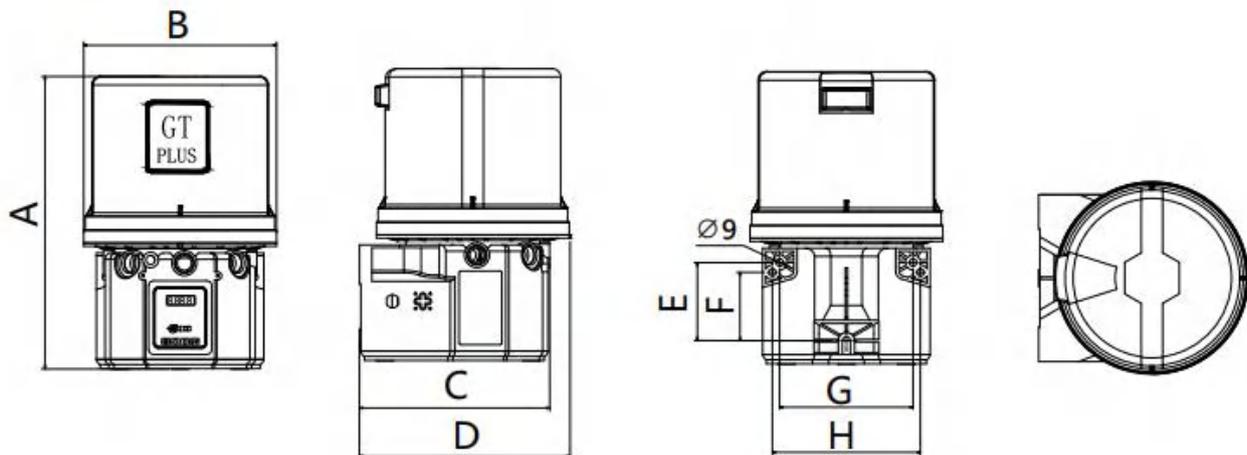
2L & 4L Dimensions(mm):



Reservoirs	A	B	C	D	E	F	G	H
2L	338	204	229.5	248	95.5	83.5	162.5	180
4L	378	204	229.5	248	95.5	83.5	162.5	180

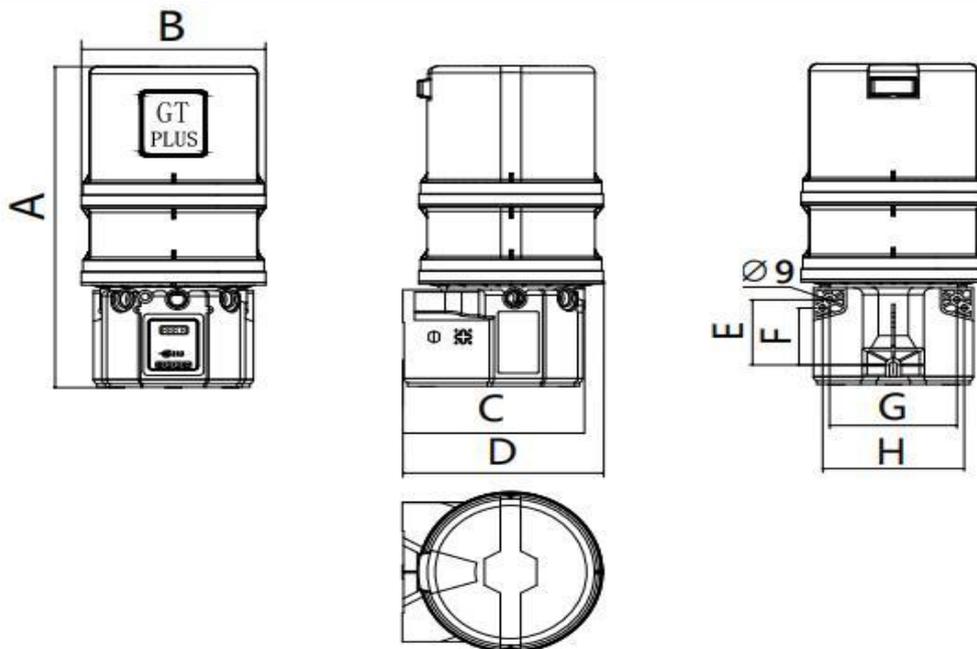


## 6L Dimensions (mm):



Reservoirs	A	B	C	D	E	F	G	H
6L	358	235	231.5	256.5	95.5	83.5	162.5	180

## 8L &amp; 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	180.5
12L	585	235	231.5	256.5	95.5	83.5	162.5	180.5



GT Pump

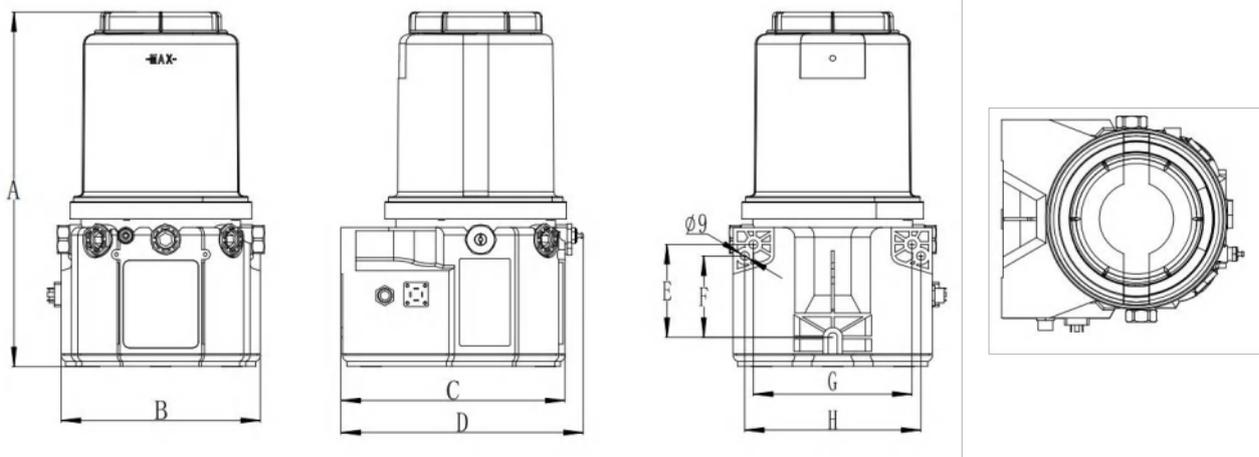
Top cap:

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



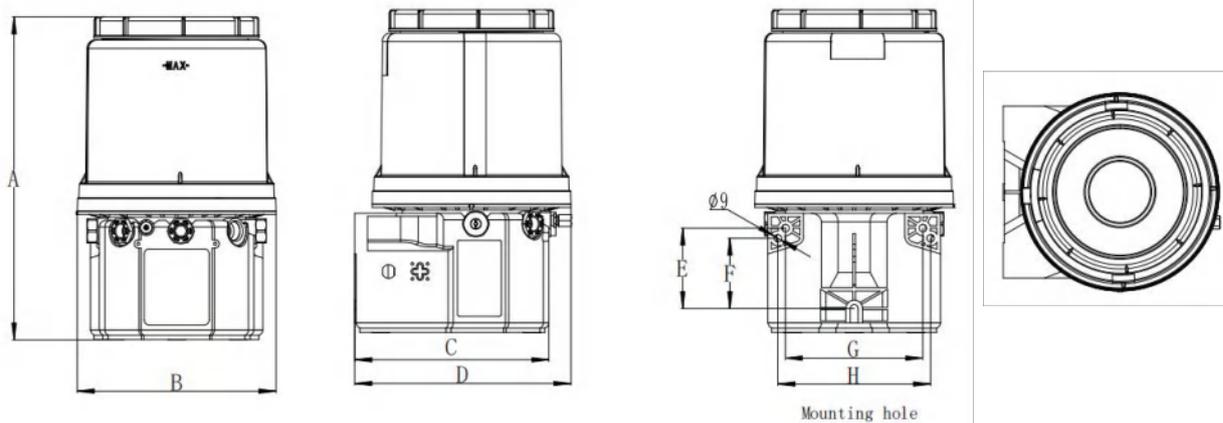
Pump grease, top open cover mode, large diameter injection cap  
Applicable: 2L, 6L, 8L, 12L  
This top cover method is not suitable for 4L

2L Dimensions (mm) :

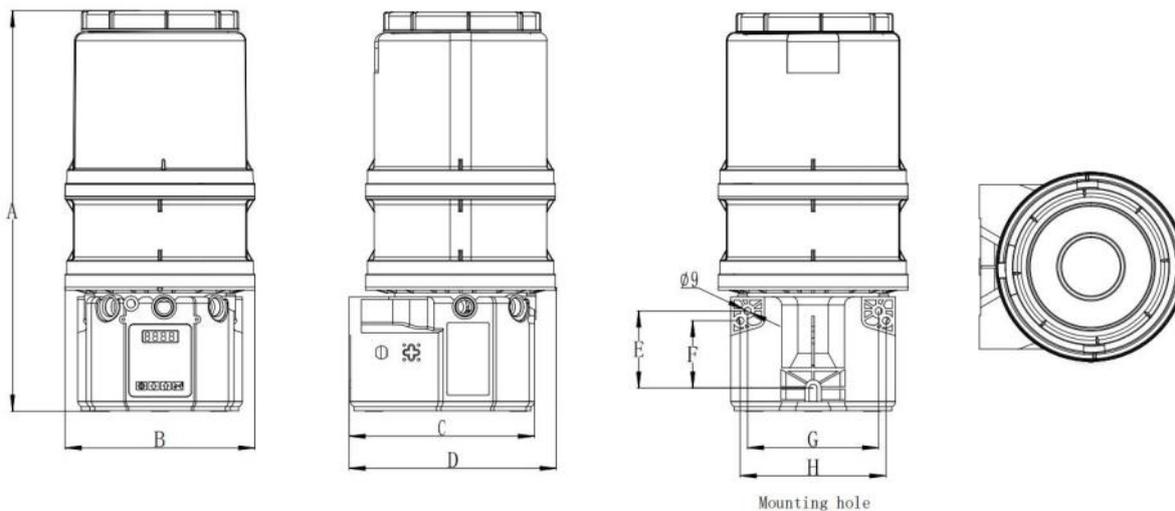


Reservoir	A	B	C	D	E	F	G	H
2L	365	204	231.5	248	95.5	83.5	162.5	180.5

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	180.5



Reservoir	A	B	C	D	E	F	G	H
8L	498	235	231.5	255.5	95.5	83.5	162.5	180.5

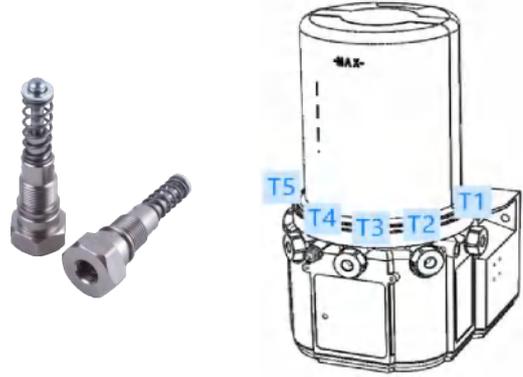


## GT Pump

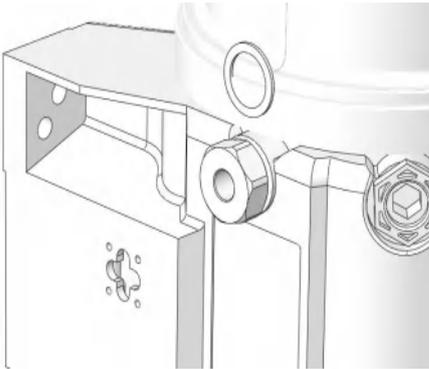
## Ordering information:

2. Every factory GT pump is equipped with a 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: 80535



Fill grease type:

① with grease gun kits



② with cartridge



③ with hand pump

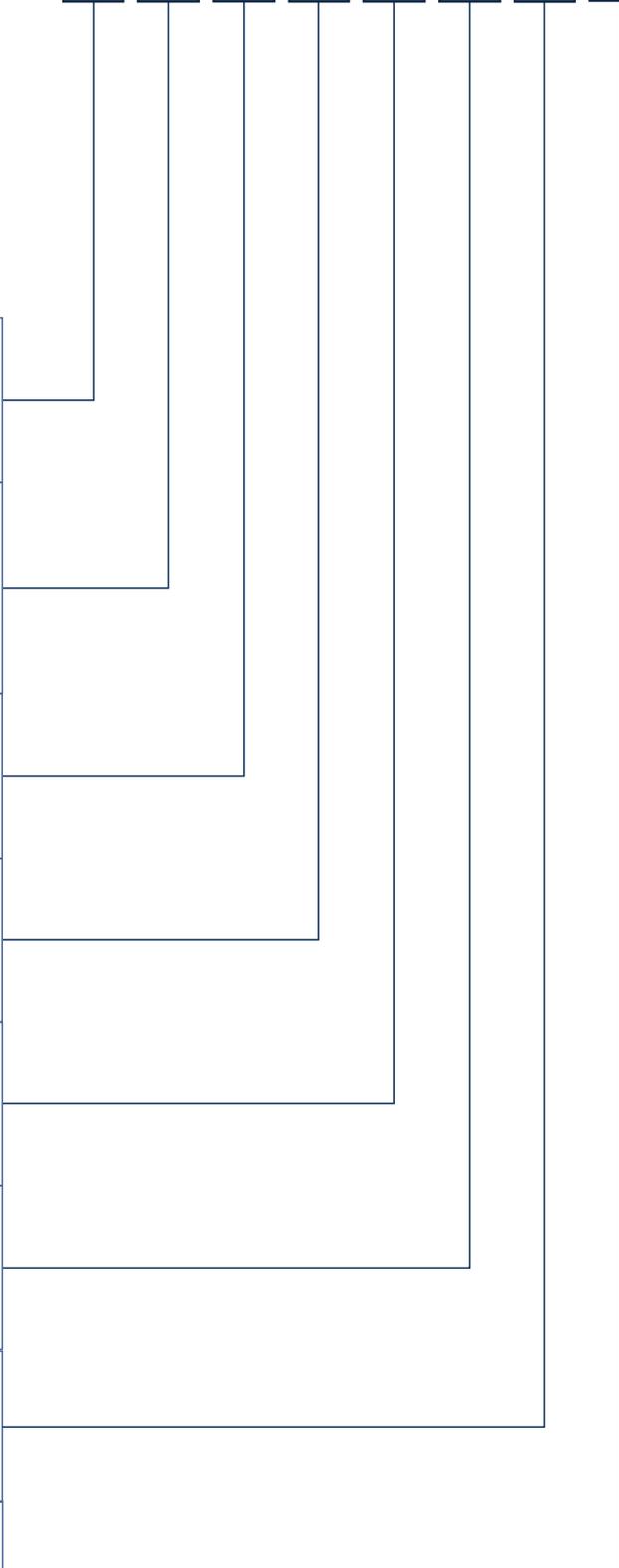


Ordering information:



20-

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



Grease filling connector



GT Pumping Element

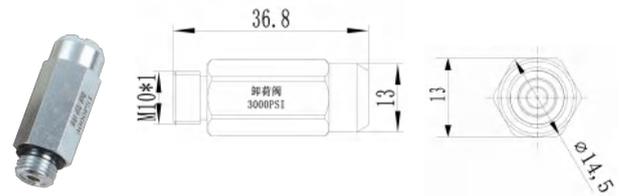


Part number	Description	Thread	Part number	OD	Rated flow
80220	Male connector	G1/4	80536	6mm	A6; 4ml/min
80221	Female connector	G1/4	80537	7mm	A7; 5ml/min

Pump outlet assembly

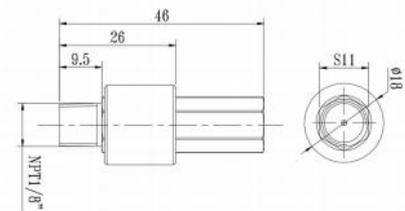


Safety valve



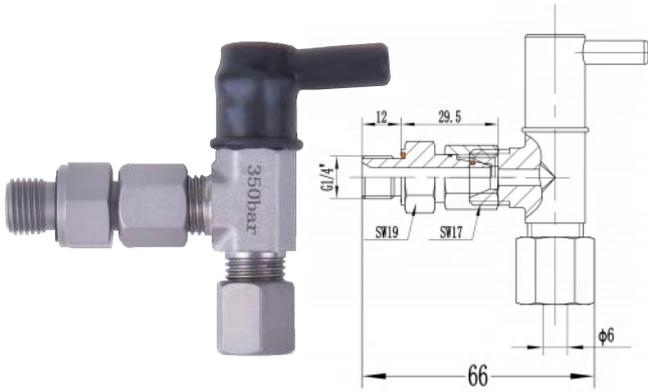
Part number	Description	Pressure	OD	Part number	Pressure	Male thread
80532PG	With pressure gauge	100bar/ 1450psi	6mm	5FI05	207bar/3000psi	M10*1
80532PG-8			8mm			
80532	Without pressure gauge		6mm			
80532-8			8mm			
80533PG	With pressure gauge	275bar/ 4000psi	6mm	5FI07	275bar/4000psi	NPT1/8
80533PG-8			8mm			
80533	Without pressure gauge		6mm			
80533-8			8mm			

Safety valve



Accessories

Safety valve

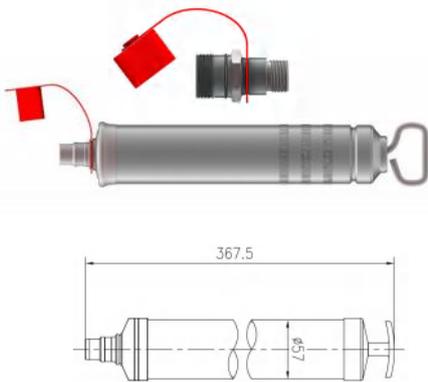


Controller shield



Part number	OD	Male thread	Pressure	Description	Part number
5FJ01	φ6	G1/4	345bar/5000psi	PC	97116

Follow plate ang grease gun kits :



Description	Part number	Fitting
Grease Gun	MG500	-
Grease fitting assembly	MG500-A-GT	Grease fitting without check valve
Grease fitting assembly	MG500-C-GT	Grease fitting with check valve



Description	Part number	Oil drum
Follower Plate	95660C	16KG

GT Mounting bracket



Description	Part number
Mounting bracket	90236



Button with green lamp



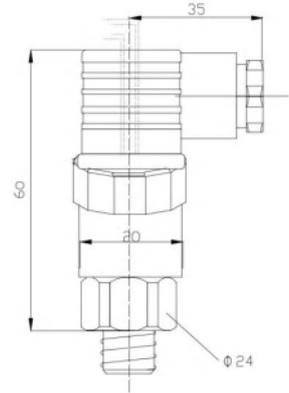
Description	Part number
12V	90212
24V	90224

Cartridge



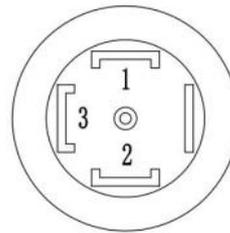
Description	Part number	Reservoir
Cartridge	CSL-J100	700CC
	CSL-C100	700CC

Pressure switch

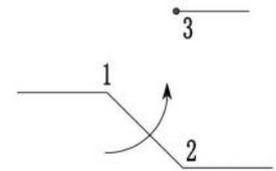


Description	Part number
Adjustable Type	91346

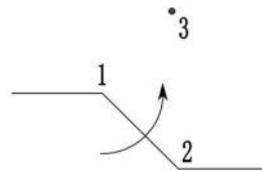
Wiring diagram



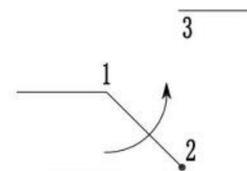
DIN plug



SPDT Normally open + normally closed



SPST Normally closed type



SPST Normally open type





# GM PUMP

- More compact size
- Pump oil and grease
- Multiple grease filling ways
- Powerful centralized control system
- Multiple voltages are available

## Small size, large performance

### HIGH PERFORMANCE IN A COMPACT PUMP

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

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

Its size is particularly suitable for installation in small Spaces.

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

The special body material achieves very excellent seismic function.

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

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

#### There are two model modes:

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

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

#### Characteristics

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

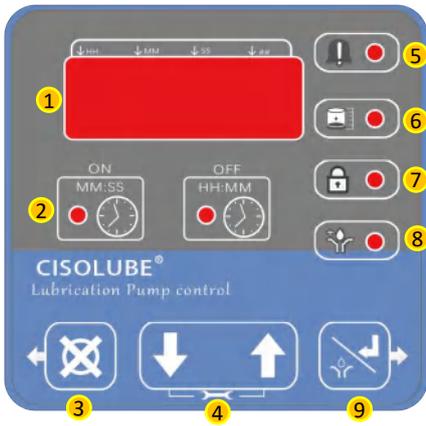
#### Application

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

.....



Control System



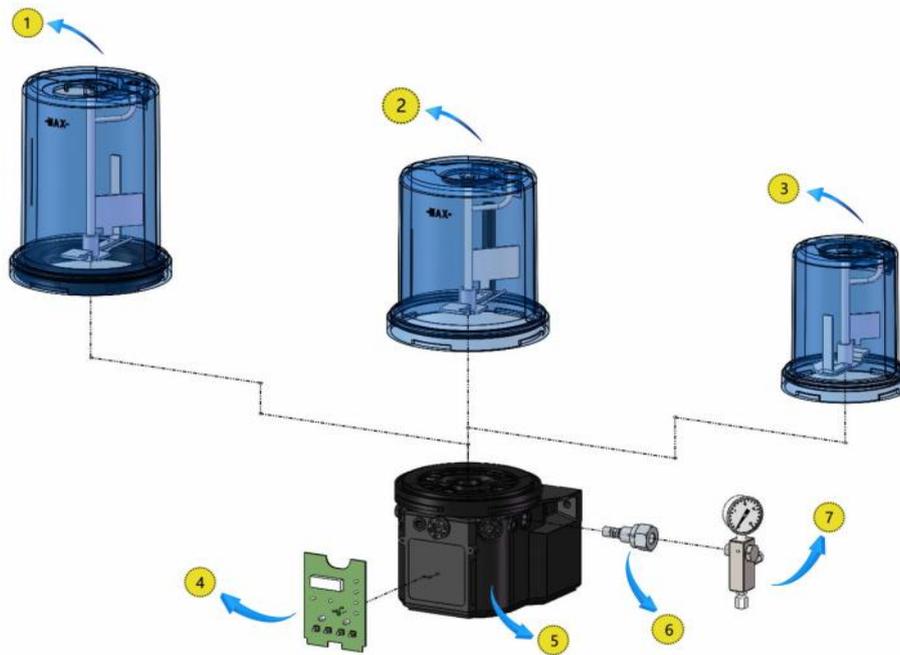
**Basic function**

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

**Custom function**

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

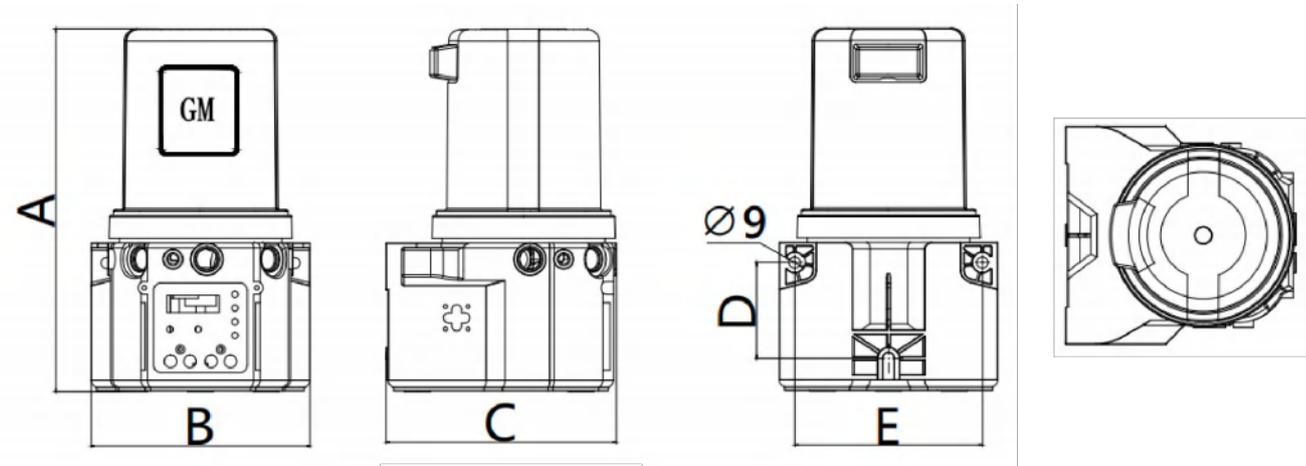
★ For additional customization features, please contact your sales manager.



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

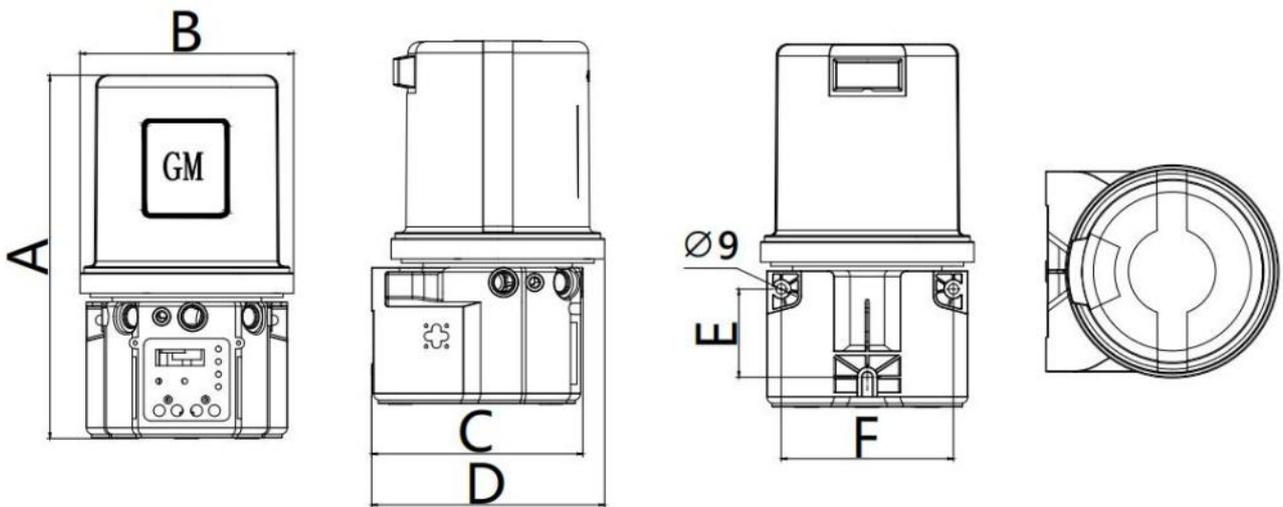


1.5L Dimensions (mm):



Reservoirs	A	B	C	D	E
1.5L	292	175	184	77	150

2L&4L Dimensions (mm):



Reservoirs	A	B	C	D	E	F
2L	314	186	184	203	77	150
4L	354	186	184	203	77	150



## GM Pump

## Technical information :

## Technical characteristics

Unit of pump outlets	Max. 5 outlets
Outlet thread	G1/4
Rarted flow	4ml/min
Operating preasure	Max. 25MPa
Reservoir Capacity	1.5、 2、 4L
Lubricants	OIL、 000、 00、 0、 1、 2
Operating temperatures	-40 - 90°C



Ordering information:



22-

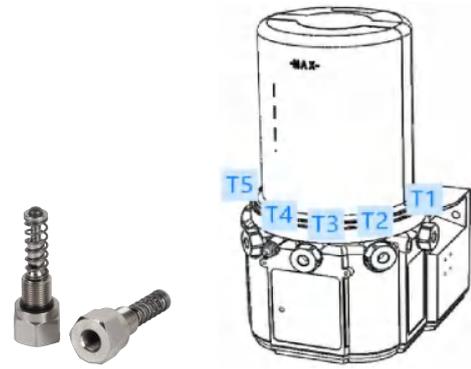
<b>Type</b> D = Stir
<b>Reservoir</b> 1 = 1.5L    2 = 2L 4 = 4L      7= Cartridge
<b>Voltages</b> 2 = 12VDC    4 = 24VDC 3= AC110V   6 = 220VAC
<b>Timer</b> 1 = with timer 6 = without timer
<b>Low Level</b> L= with level M= without level
<b>Lubricant</b> G = Grease O = Oil
<b>Fill Type</b> N = Grease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



GM Pump

Every factory GM pump is equipped with a pump element at the T1 position. Customers can purchase pump element and install them in positions T2 through T5!

Only suitable for P6, if you choose other pump head, please consult customer service.

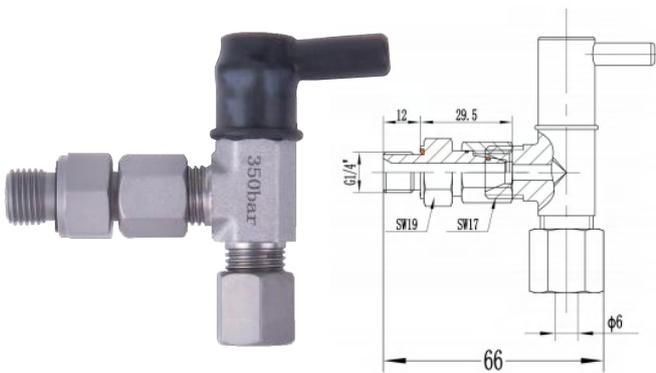


Grease filling connector	GM Pumping Element
--------------------------	--------------------



Part number	Description	Thread	Part number	OD	Rated flow
80220	Male connector	G1/4	88535	5mm	P5; 3.3ml/min
80221	Female connector	G1/4	88536	6mm	P6; 4ml/min

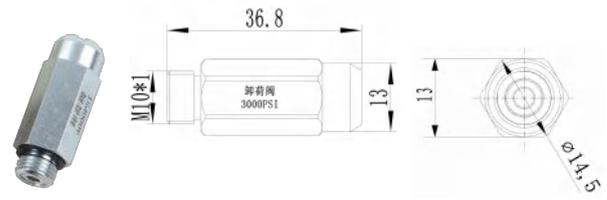
Safety valve	Controller shield
--------------	-------------------



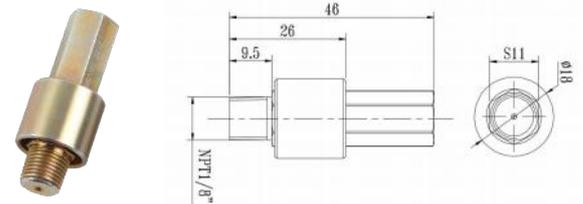
Part number	OD	Male thread	Pressure	Description	Part number
5FJ01	φ6	G1/4	345bar/5000psi	PC	97117



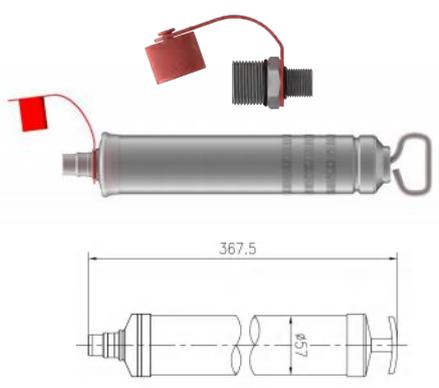
Pump outlet assembly Safety valve



Part number	Description	Pressure	OD	Part number	Pressure	Male thread
80532PG	With pressure gauge	100bar/ 1450psi	6mm	Safety valve		M10*1
80532PG-8			8mm			
80532	Without pressure gauge		6mm			
80532-8			8mm			
80533PG	With pressure gauge	275bar/ 4000psi	6mm	Safety valve		NPT1/8
80533PG-8			8mm			
80533	Without pressure gauge		6mm			
80533-8			8mm			



Follow plate ang grease gun kits:



Description	Part number	Thread
Grease Gun	MG500	-
Grease fitting assembly	MG500-A-GM	Grease fitting without check valve
Grease fitting assembly	MG500-C-GM	Grease fitting with check valve

Description	Part number	Oil drum
Follower Plate	95660C	16KG



GM Pump

GM Mounting bracket



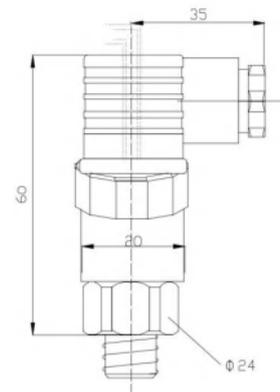
Description	Part number
Mounting bracket	90235

Button with green lamp



Description	Part number
12V	90212
24V	90224

Pressure switch



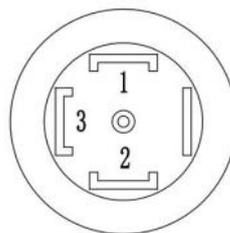
Description	Part number
Adjustable Type	91346

Cartridge

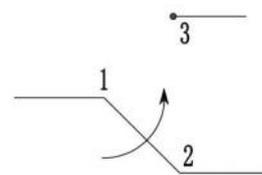


Description	Part number	Reservoir
Cartridge	CSL-J100	700CC
	CSL-C100	700CC

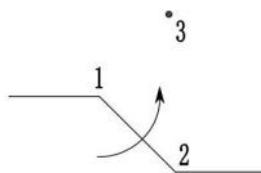
Wiring diagram



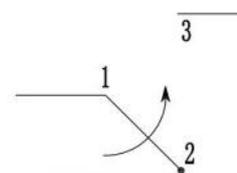
DIN plug



SPDT Normally open + normally closed

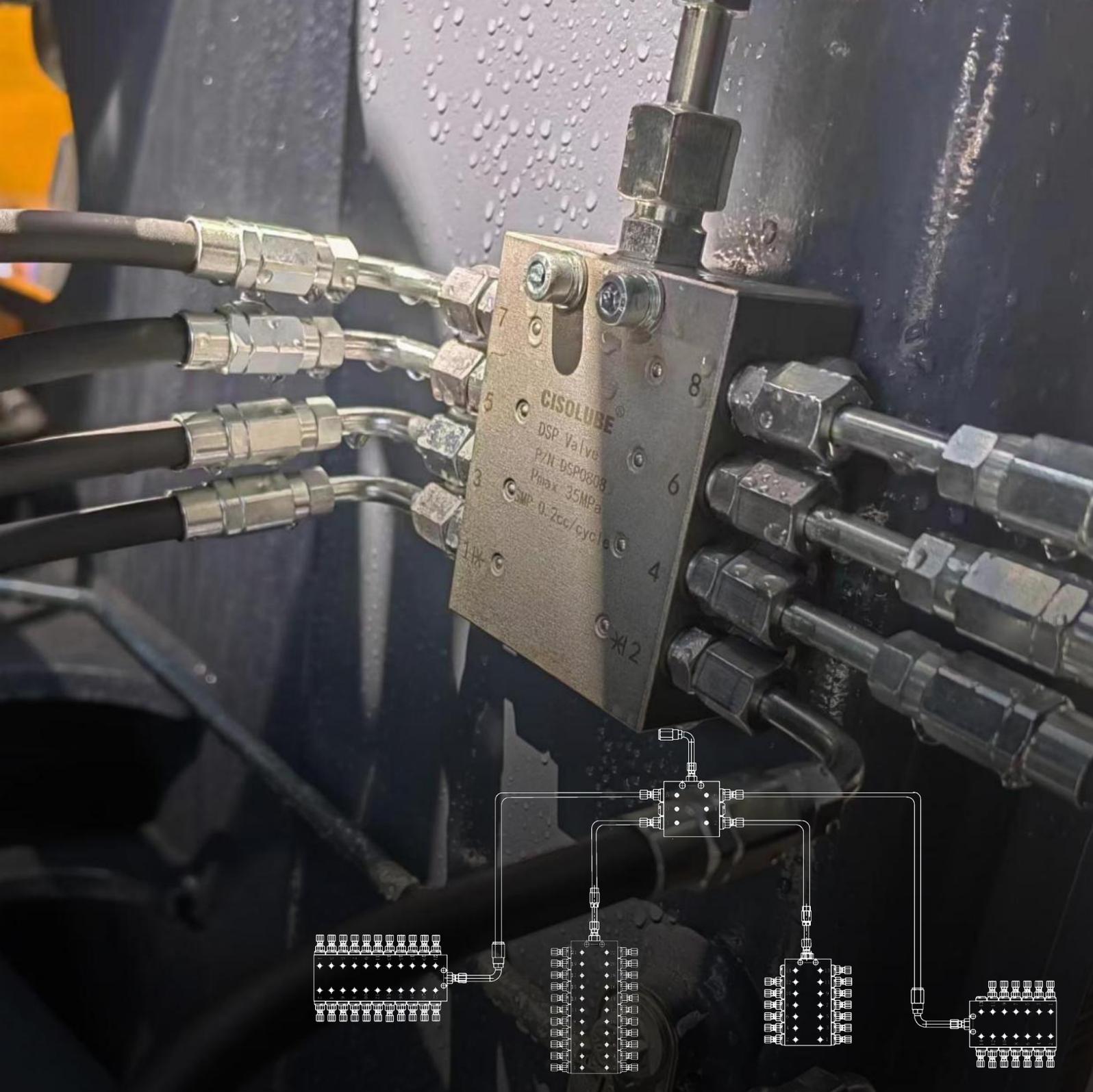


SPST Normally closed type



SPST Normally open type





# 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

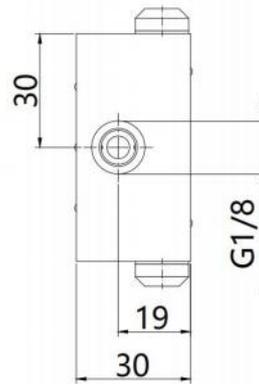
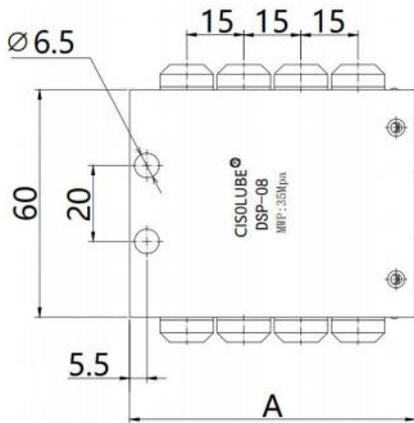
- Sizes up to 22 outlets
- High operating pressure
- Available in different materials
- Exact lubricant metering
- Unique internal crossporting technology
- Optionally equipped with visual monitoring pin or with electrically monitored piston detector

### Applications

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



Dimensions(mm) :



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

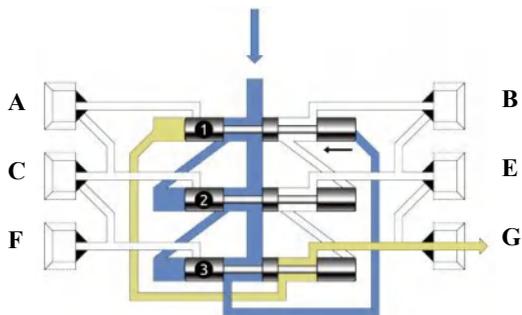
Product feature:

Technical parameters

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

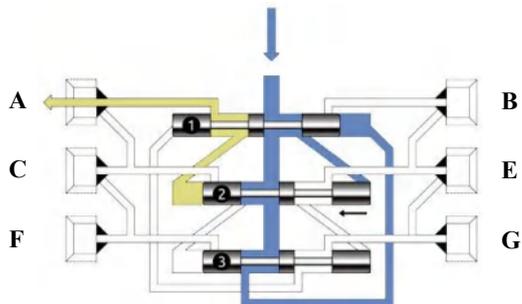
Outlets can be combined, Outlet \* 1 and \* 2 should never be closed.





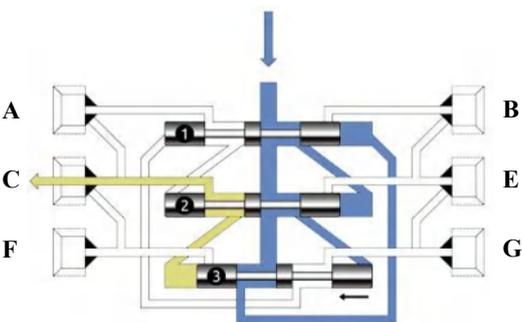
1

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



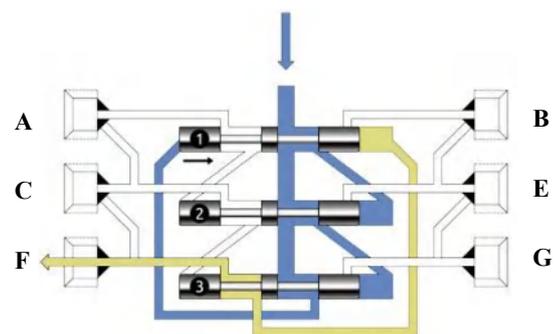
2

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



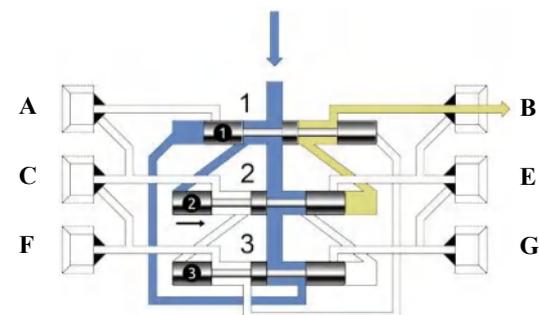
3

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



4

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

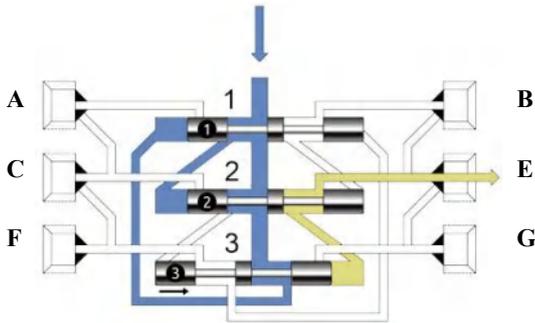


5

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



6



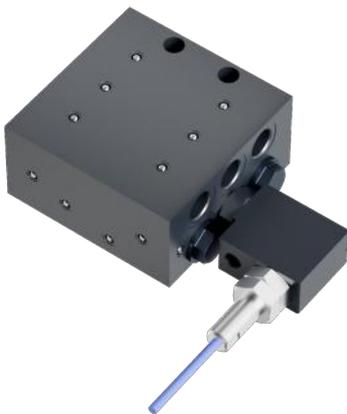
When piston 2 reaches its limit, lubricant low pressure (blue) operates on piston 3. Lubricant volume (yellow) discharge from E. The system is ready for a new cycle.

Visual pin:

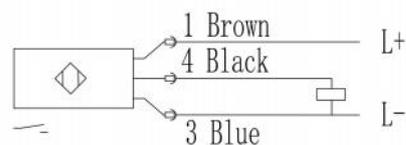
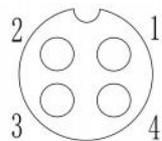


The visual pin shows the piston movement, monitoring the proper operation of the entire system.

Inductive sensor:



Voltage	10-30 VDC
Outlet current	Max 200 mA
Operating temperature	- 25 °C to +70 °C
Discharge (for outlet)	0.2ml/cycle
Sensor block	Pet-G
Connection	M8x1

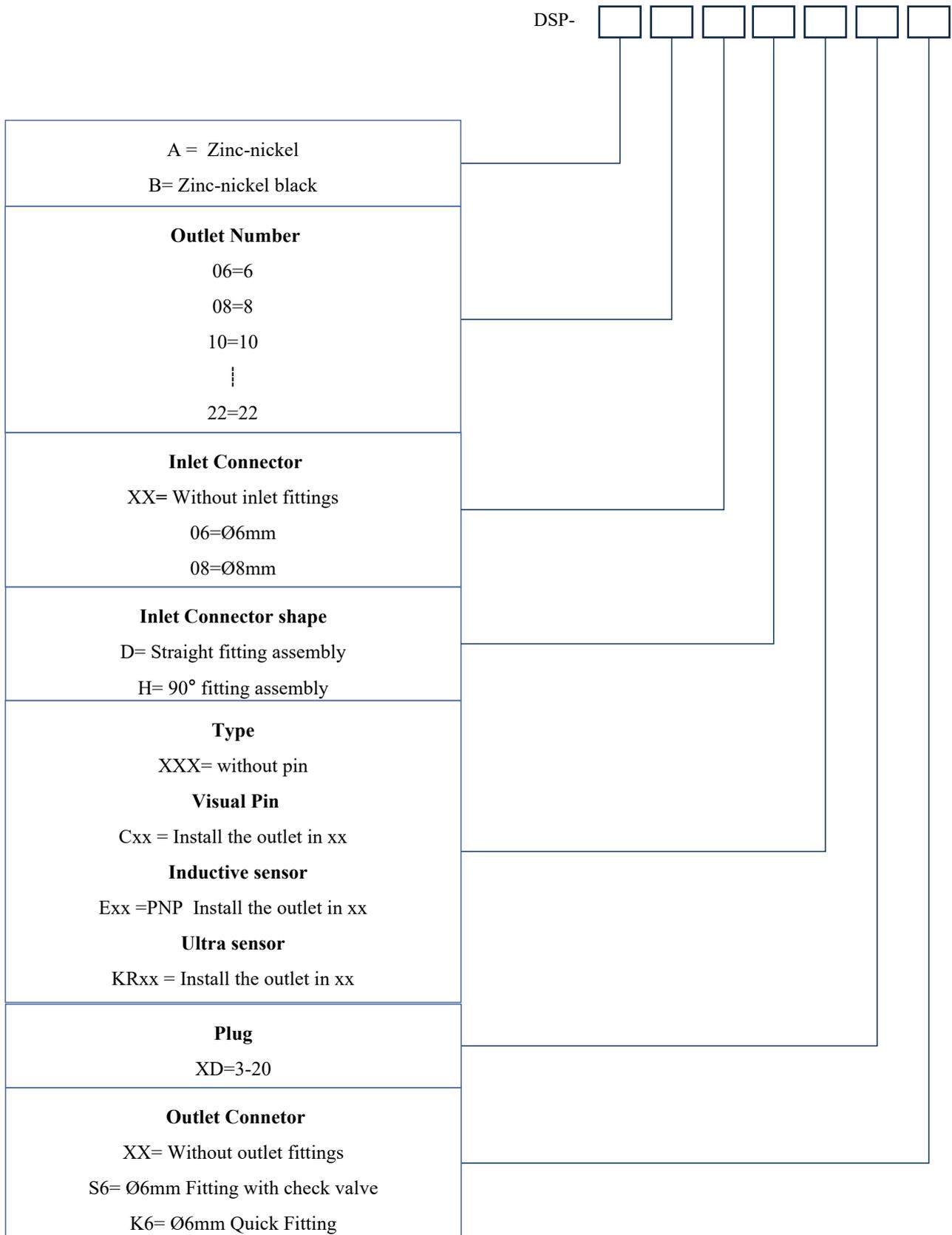


## Ordering Number Without inlet and outlet fittings:

Standard	Outlets number	Part number	
	6	31N03	
	8	31N04	
	10	31N05	
	12	31N06	
	14	31N07	
	16	31N08	
	18	31N09	
	20	31N10	
	With visual pin	Outlets number	Part number
		6	33V03
8		33V04	
10		33V05	
12		33V06	
14		33V07	
16		33V08	
18		33V09	
20		33V10	
With inductive sensor		Outlets number	Part number
		6	33M03
	8	33M04	
	10	33M05	
	12	33M06	
	14	33M07	
	16	33M08	
	18	33M09	
	20	33M10	



Ordering information:





# VB VALVE

Maximum Operating Pressure - 30Mpa,  
4200psi

For the progressive delivery of mineral oil  
and grease for lubrication.

For Professional Use Only.

## 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, the T represents the double outlet) 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~0.64ml/cyc
- Universal use in continuous or intermittent operation
- Metering sections with variable metering amount
- Internal and external consolidation of outlets
- Visual or electrical monitoring op

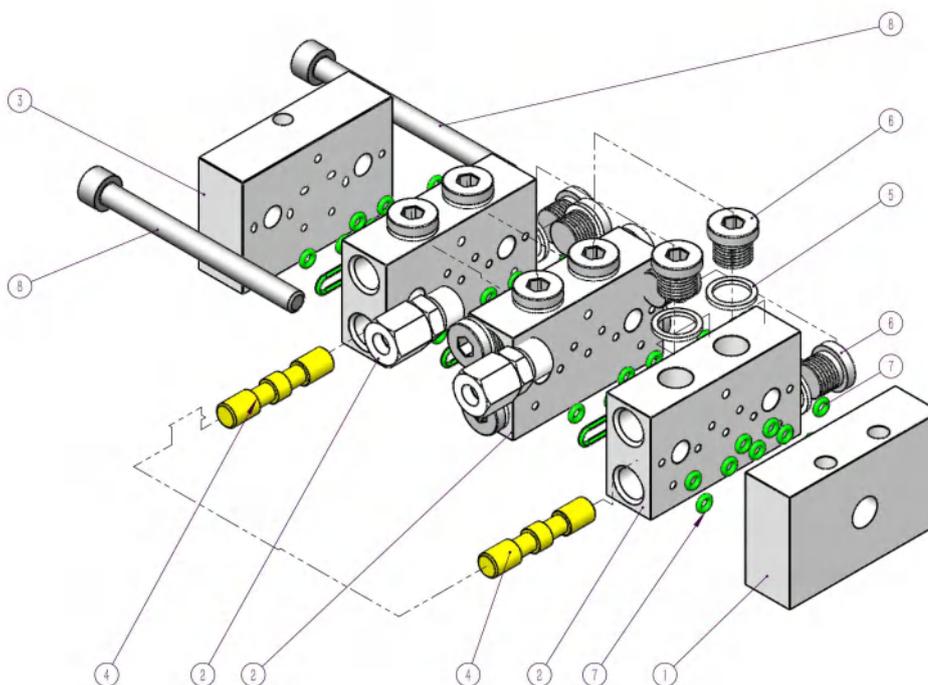
### Applications

- 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:FKM(-20°C~200°C) /NBR(-40°C~110°C)

4 — Plunger

8 — Bolt

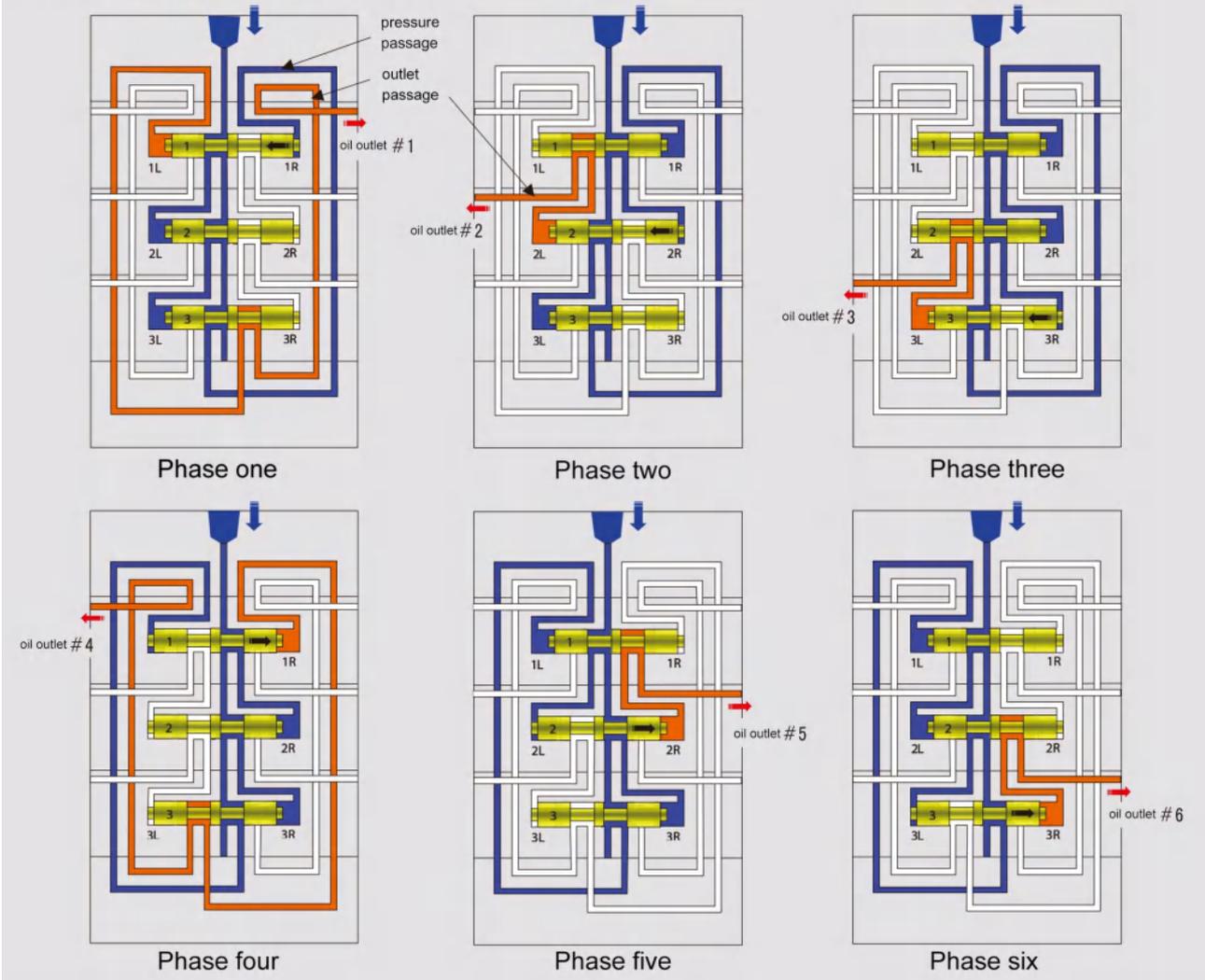
## Technical parameters

Operating pressure	Max 30Mpa
Lubricants	Oil 46 to Grease NLGI-2
Operating temperature	-40 °C to 110 °C
Inlet thread	R1/8
Outlet thread	M10x1
Outlets number	Max. 20
Coating	Zinc-Nickel plated



Structure and working principle

Lubricant pressurization: by pump



The pumped lubricant is pressed into the distributor through the first oil inlet.

First assume that the 3 plungers of the valve body are all located on the right side, and the inflowing lubricant will enter the 1R, 2L, 3L sides of the valve chamber.

- Stage One**

The lubricant flowing into the valve chamber 1R pushes the plunger 1 to the left end, and the plungers 2 and 3 are fixed. The plunger 1 moves from right to left, while the lubricant in the 1L valve chamber flows along the oil outlet from the oil #1 squirting.
- Stage Two**

When the plunger 1 moves to the left end and stops, the lubricant pressure of the push plunger 1 is transferred to the valve chamber 2R side, the push plunger 2 moves from the right to the left, and the lubricant at 2L is sprayed from the oil outlet #2
- Stage Three**

When the plunger 2 stops at the left end, the pressure drop of the lubricant in the push plunger 2 is transferred to the valve chamber 3R side, the push plunger 3 moves from the right to the left, and the lubricant located in the valve chamber 3 is ejected from the oil outlet #3 . When plunger 3 stops at the left end, all plungers will be on the left.
- Stage Four ~ Stage Six**

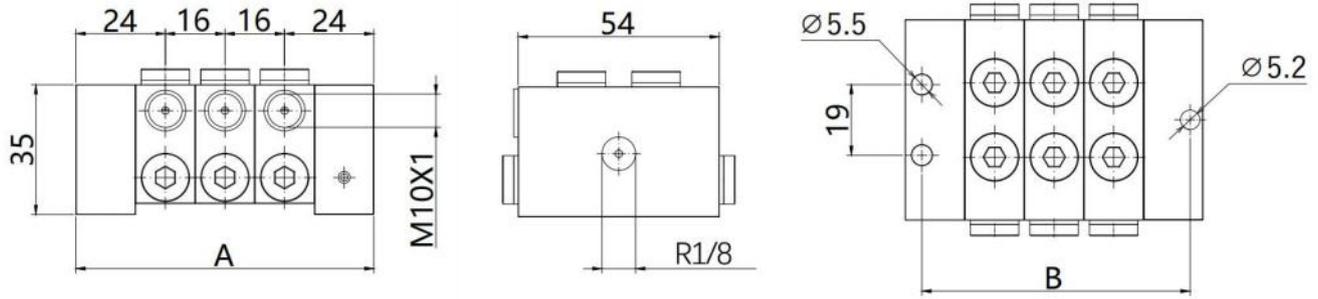
Then start from the plunger 1 and push it from the left to the right, the lubricants in the valve chambers 1R, 2R, 3R are sprayed from the oil outlets #4, #5, #6.

The above process of stages 1-6 is repeated as the lubricant continues to be delivered to the dispenser.



## 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) (ml/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



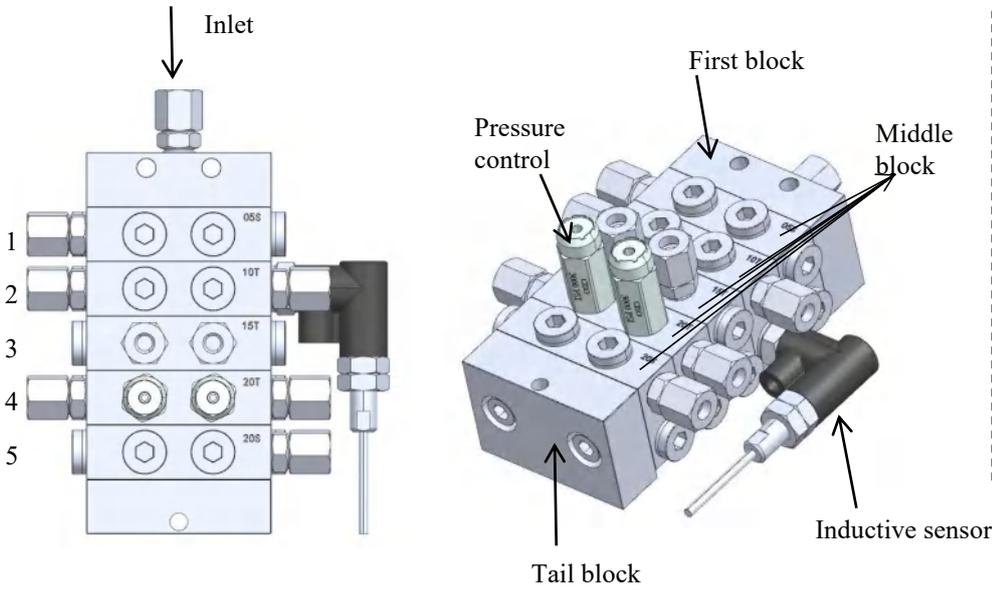
Ordering information

<b>Element Number</b> 3-10	VB-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<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>Inductive sensor</b> ER=PNP Mounted on the right EL= PNP Mounted on the 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:



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	<b>T</b> Double outlet	<b>ER</b> PNP Inductive sensor Right	<b>M</b> Safety valve	10	<b>L</b> Left	<b>Q4</b> Ø4 Push-in straight
10	<b>SL</b> Single left	<b>EL</b> PNP Inductive sensor Left		20	<b>R</b> Right	<b>Q49</b> Ø4 Push-in 90°
15	<b>SR</b> Single right	<b>VR</b> Visual pin right			<b>LR</b> Left/Right	<b>D4</b> Ø4 Straight fittings
20	<b>BL</b> Bridge left	<b>VL</b> Visual pin left			<b>UL</b> Single left upper	<b>D49</b> Ø4 90° fittings
	<b>BR</b> Bridge right	<b>KRR</b> Ultra sensor right			<b>UR</b> Single righth upper	<b>Q6</b> Ø6 Push-in straight
	<b>BLR</b> Bridge left&right	<b>KRL</b> Ultra sensor left			<b>ULR</b> Single left&right upper	<b>Q69</b> Ø6 Push-in 90°
	<b>U</b> Both upper					<b>S6</b> Ø6 Straight fitting with check valve
	<b>UL</b> Single left upper					<b>D69</b> Ø6 90° fittings
	<b>UR</b> Single righth upper					

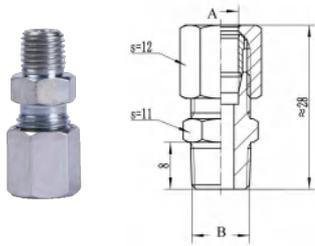
Order example: VB-5-D6 05SL S6 /10T ER S6/15T U S6/20T M20ULR S6/ 20SR S6

1                      2                      3                      4                      5

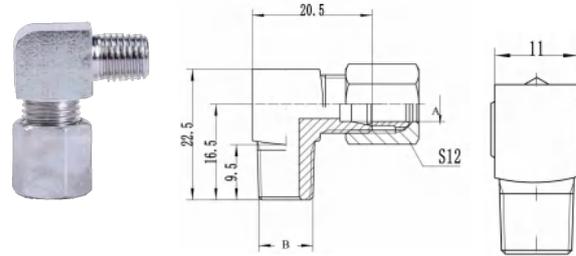


Inlet fittings :

Straight fitting assembly



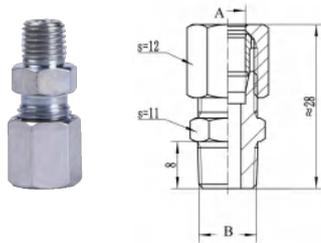
90° fitting assembly



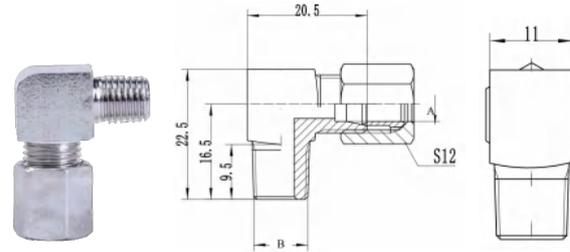
Part number	A	B	Material	Part number	A	B	Material
5DM0802	Ø8	R1/8	Nickel plated	5HM0802	Ø8	R1/8	Nickel plated
5DM0602	Ø6	R1/8		5HM0602	Ø6	R1/8	
5DM0402	Ø4	R1/8		5HM0402	Ø4	R1/8	

Outlet fittings :

Straight fitting assembly



Angle fitting assembly

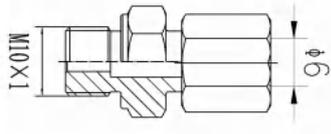


Part number	A	B	Material	Part number	A	B	Material
5DM0410	Ø4	M10*1	Nickel plated	5HM0410	Ø4	M10*1	Nickel plated
5DM0610	Ø6	M10*1		5HM0610	Ø6	M10*1	



VB distributor

**Straight fitting with check valve**



Part number	OD	Thread	Material
5VM0610	Ø6	M10*1	Zinc plated

**Outlet plug**



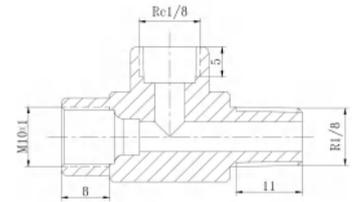
Part number	Thread	Material
5PC10	M10*1	Zinc plated

**Adjustable fitting**



Part number	OD	Thread M	Material
5B0610	Ø6	M10*1	Nickel plated

**With grease nipple inlet assembly :**



Part number	Thread F	Thread F	Thread M
3T1002	M10x1	R1/8	R1/8



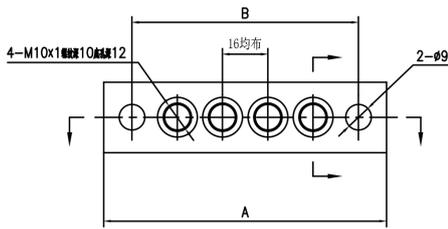
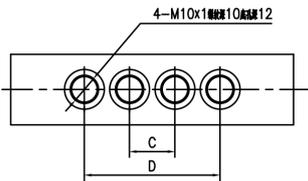
# VSD

# distributor block



Manual Grease lubrication system components

VSD distributor block:

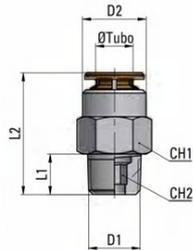


Specifications and parameters

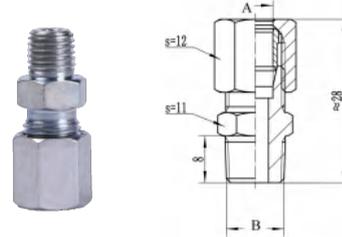
Part Number	Out Thread	Out Number	A	B	C	D
VSD-04KT	M10*1	4	100	80	16	48
VSD-09KT	M10*1	9	180	128	16	48
VSD-12KT	M10*1	12	228	208	16	48

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



Straight fitting assembly



Part Number	OD	D1	D2	L1	L2
MP1104M10	Ø4	M10*1.0	9	8	20
MP1106M10	Ø6	M10*1.0	12	8	22

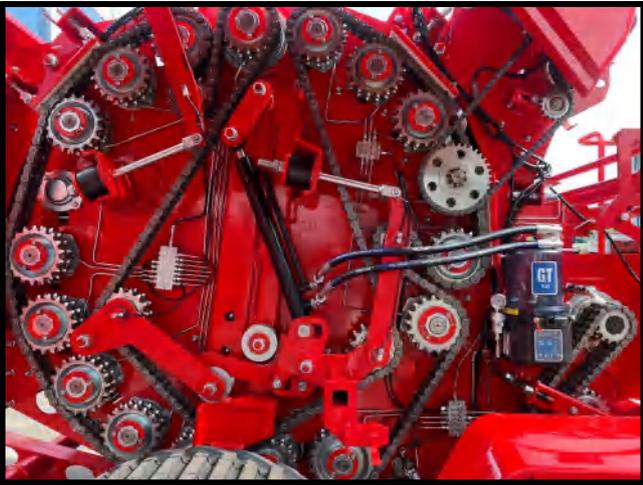
Part Number	A	B	Material
5DM0410	Ø4	M10*1	Carbon steel
5DM0610	Ø6	M10*1	Carbon steel

Grease Nipples

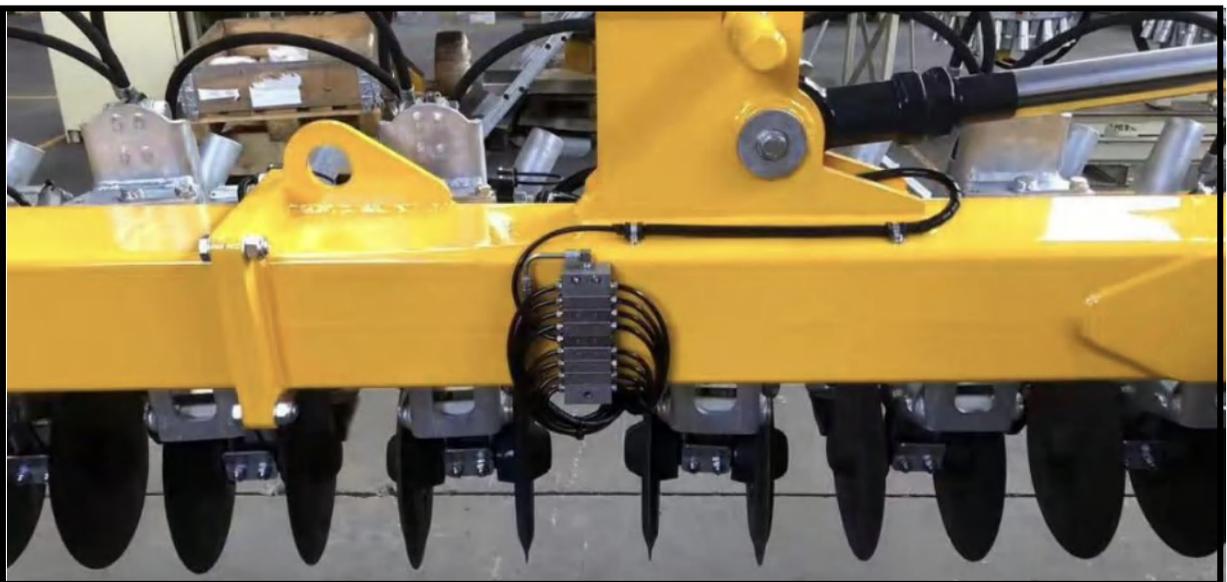


Part Number	Thread	Material
3NP10	ZM10*1	Nickel-plated





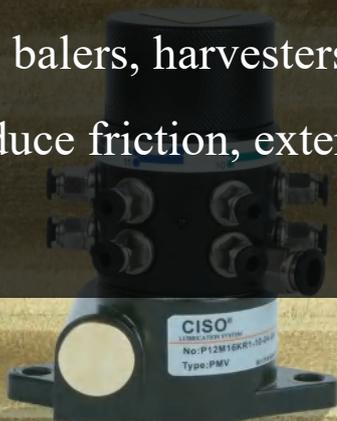
Product application cases





# Chain lubrication systems

The system can be used for products with chain drive such as harvesters, balers, harvesters and mowers. Good lubrication can slow the impact, reduce friction, extend the service life of the chain.



The main components of the system

- Compact structure and easy expansion
- No need for a distributor
- The pipes are smooth and have no residue
- Multiline output
- Adjustable displacement

PMV pump



- Plunger structure
- Single wire installation
- Solid pump body
- High performance cost ratio
- Flow stability

PMM pump



- Plunger structure
- Solid pump body
- No motor and controller required
- Equipped with inlet and outlet check valve
- High performance cost ratio
- Adjustable displacement

PMN pump



# THE SYSTEM FOR AGRICULTURAL MACHINERY CHAIN

**PMV** is a multi-point piston pump operated by a cam system and designed to feed several independent lines up to a maximum of 12 outlets.



Characterised for its robustness and reliability, it is particularly suitable for lubricating systems installed in difficult environments.

The pump is designed to supply single-point lubrication systems in agricultural machinery and various kinds of machinery for use with oil.

The "PMV" pump is designed to operate with a maximum of six pistons, which are easily adjustable on 12 outlets. The pump is designed for merging outlets (to be defined during the order phase); the same will be provided directly to the merged outlets according to your specifications. Merging the two outlets will allow for the nominal flow rate of a single outlet to be doubled.

## Advantage

- Improve machine reliability
- Significantly reduce maintenance costs
- Economizing lubricant
- The reservoir can be placed within 0.5 m above or below the pump
- The PMV pump can operate for up to 1000 hours without oil and will not get stuck without refueling.
- Single-piston flow regulation is simple and fast
- The piston and flow are regulated parallel to the outlet
- The PMV pump is reversible, which means that its direction of rotation is not affected by mechanically driven steering

## Characteristics

- 6-12 Outlets
- AVP Piston
- Material: Aluminum base
- Flow rate is easy to adjust
- The pump has been tested for 1000 hours of lubricant-free operation
- Suitable for harsh environments

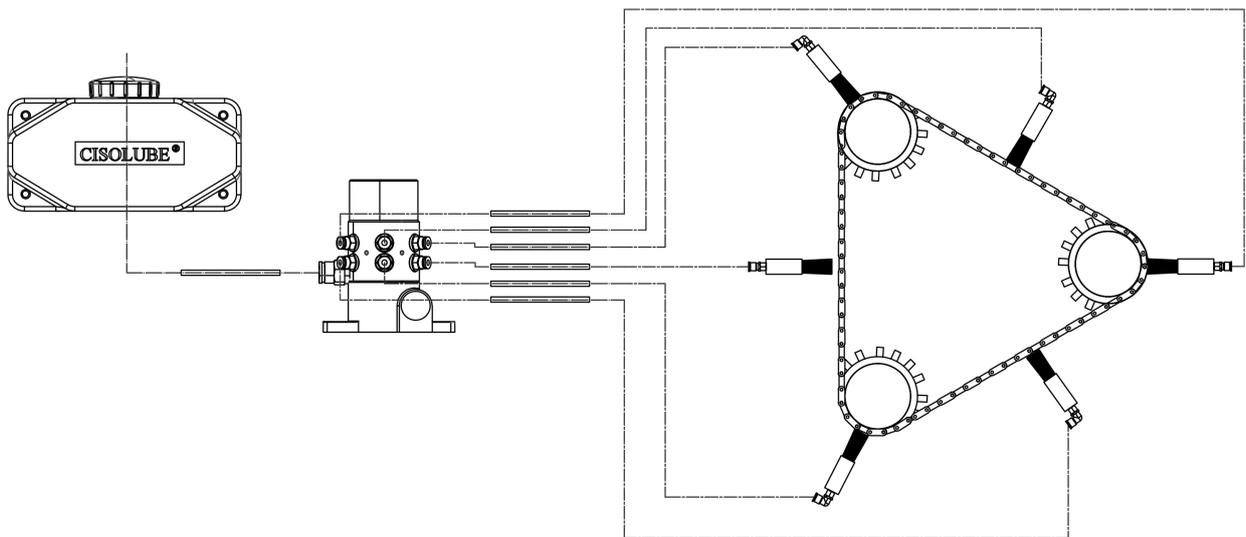


## PMV multi-line chain lubrication pump

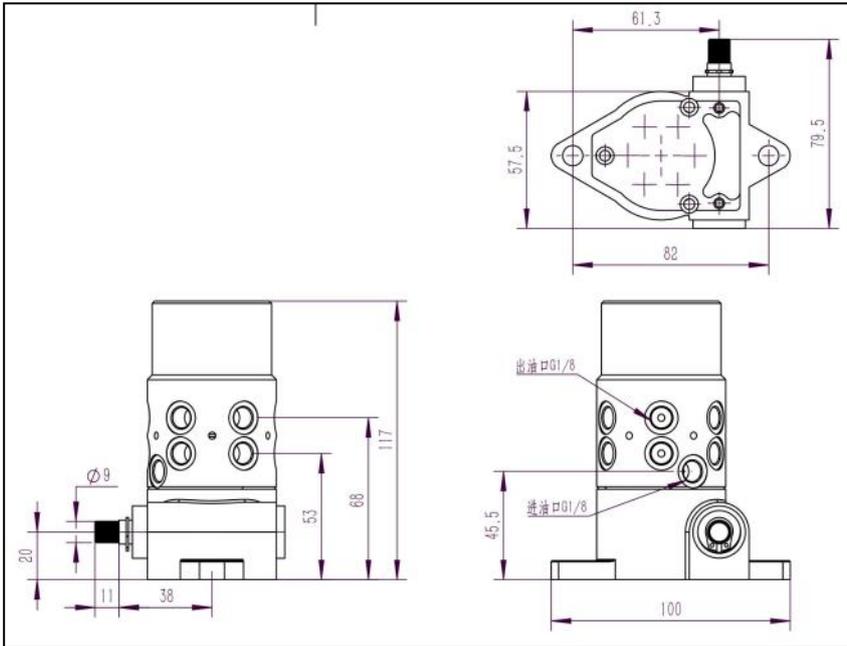
## Technical Data

Inlet	Ø8、Ø10
Reservoir	4L、7L
Suction height	≤500mm
Filter Rate	20µm
Output	Ø 4
Ratio	7.6: 1 11.5: 1 25: 1 50: 1
Operating pressure	Max 10Bar
Output rate	Max 0.06cc/cyc
Viscosity range	25-1500cst

## Structure diagram

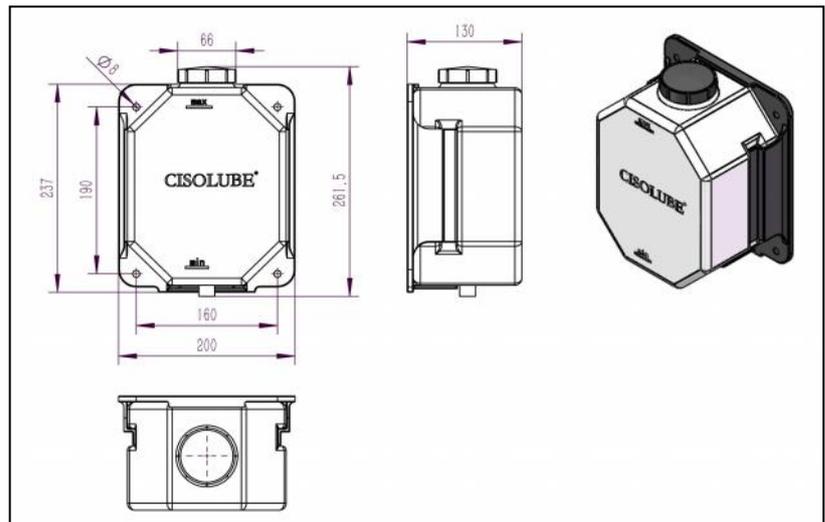


Dimensions (mm)

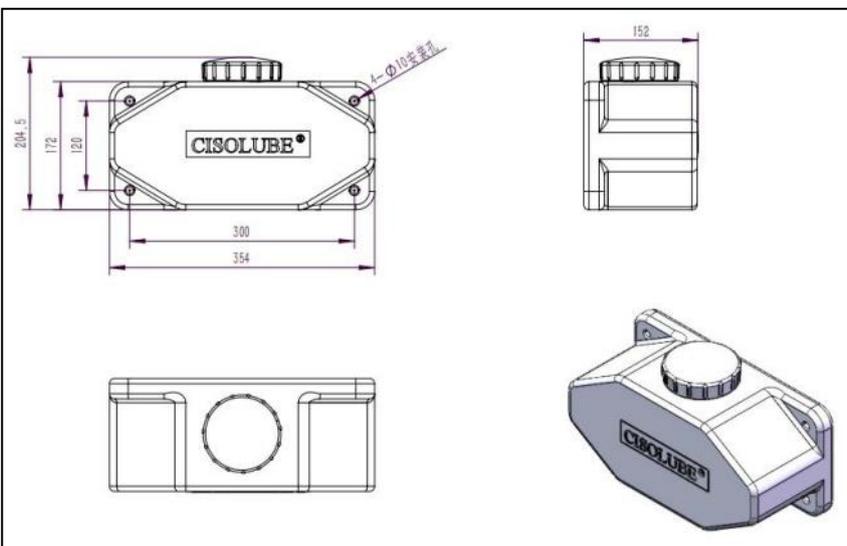


PMV pump

4L Reservoir with filter



7L Reservoir with filter

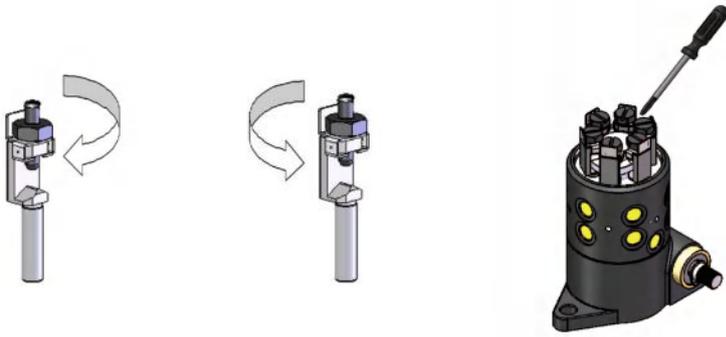


PMV multi-line chain lubrication pump

Displacement adjustment

The displacement of the outlet can be adjusted with a screwdriver, and the use of electric tools is prohibited

No exit can be closed! The outlet that is not used must have the displacement adjusted to 0 and use a special plug.



Please adjust after shutdown



Justification range

Frequency	Displacement $\pm 10\%$
0	60 mm <sup>3</sup> / stroke
1	57 mm <sup>3</sup> / stroke
2	53 mm <sup>3</sup> / stroke
3	50 mm <sup>3</sup> / stroke
4	47 mm <sup>3</sup> / stroke
5	44 mm <sup>3</sup> / stroke
6	41 mm <sup>3</sup> / stroke
7	37 mm <sup>3</sup> / stroke
8	34 mm <sup>3</sup> / stroke
9	31 mm <sup>3</sup> / stroke
10	27 mm <sup>3</sup> / stroke
11	24 mm <sup>3</sup> / stroke
12	21 mm <sup>3</sup> / stroke
13	17 mm <sup>3</sup> / stroke
14	14 mm <sup>3</sup> / stroke
15	11 mm <sup>3</sup> / stroke
16	8 mm <sup>3</sup> / stroke
17	4 mm <sup>3</sup> / stroke



## PMV pump



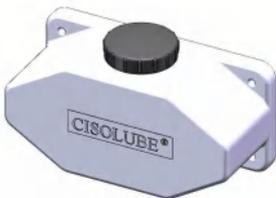
P.N	Inlet OD	Ratio
P12M10076	Ø10	7.6 : 1
P12M08076	Ø8	7.6 : 1
P12M10115	Ø10	11.5:1
P12M08115	Ø8	11.5:1
P12M10025	Ø10	25:1
P12M08025	Ø8	25:1
P12M10050	Ø10	50:1
P12M08050	Ø8	50:1

## Reservoir 4L



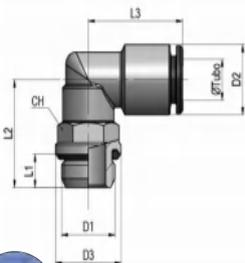
P.N	Technical specifications
RV08E04	Outlet OD 8mm; With filter
RV10E04	Outlet OD10mm; With filter

## Reservoir 7L



P.N	Technical specifications
RV08E07	Outlet OD 8mm; With filter
RV10E07	Outlet OD10mm; With filter

## Elbow Fitting, male 2Mpa

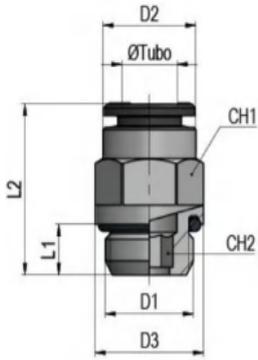


P.N	OD	D1	D2	L1	L2	Usage
AP160418	Ø4	G1/8	9	7.5	20	Pump outlet, brush



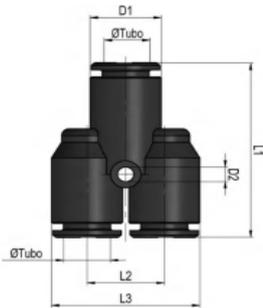
Order Information

Straight Push-in fitting , male 2Mpa



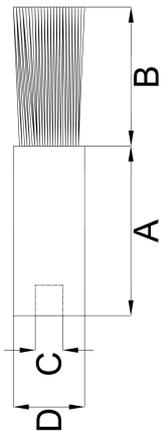
P.N	OD	D1	D2	L1	L2	Usage
AP120814	Ø8	G1/4	12	8	25.5	Reservoir outlet
AP121014	Ø10	G1/4	12	8	25.5	Reservoir outlet
AP120418	Ø4	G1/8	9	7.5	18.5	Pump outlet, brush
AP120818	Ø8	G1/8	9	8	20	Pump inlet
AP121018	Ø10	G1/8	12	8	25.5	Pump inlet

Tee Fitting



P.N	OD	D1	D2	L1	L2	L3
AP290404	Ø4	10	3.13	31.5	10	19.5

Brushes



P.N	A	B	C	D	Material
MS-B01	55	44.8	G1/8	15	NYLON
MS-B02	55	44.8	G1/8	23	NYLON



## Characteristics

- Dosing elements are required
- Material: steel
- Sturdy construction
- Adjustable displacement
- The pump has been tested for 1000 hours without lubricant
- Suitable for harsh environments

## Application

- Bundling machine
- Combine harvester
- Pickup machine
- Field mower
- Fertilizer applicator

## Adjustable automatic oil lubrication for bearings, chains & sprockets. Purpose designed for agricultural field equipment.

For agricultural field equipment and harsh environment, the system is concise, durable, unique and simple design makes it has the characteristics of stable performance and simple operation.

The PMM is a highly cost-effective chain lubrication system.

It is characterized by a strong structure, reliable use, especially suitable for the lubrication system installed in the harsh environment.

The pump is designed to supply dilute oil to single point lubrication equipment for agricultural vehicles and various machinery.

The PMM is a mechanically driven pump powered by the rotating shaft of farm equipment.

With a unique cam patent design, 8 gears can adjust the output frequency of the pump, so as to achieve the purpose of adjusting the displacement. It is necessary to form a complete chain lubrication system with the main line, metering components and subpipelines.

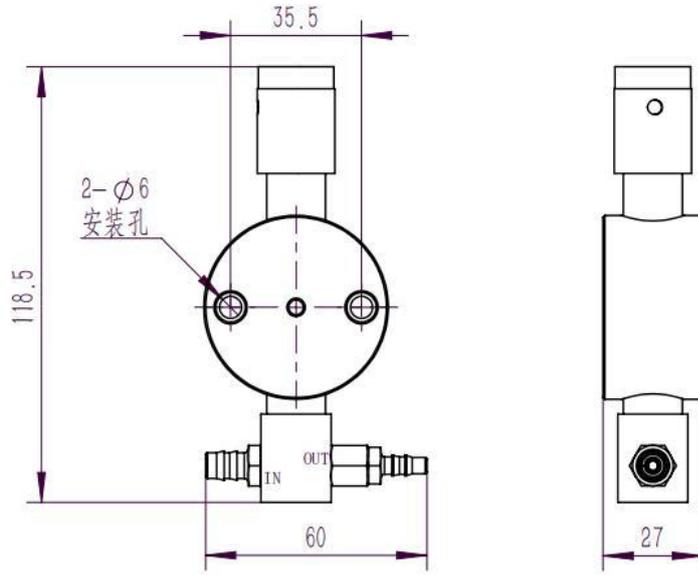
## Advantage

- A choice of reservoirs supply filtered oil to the pump.
- No motor and controller required, synchronized with the chain
- Significantly reduce maintenance costs
- Pump operated by adjustable cam or reciprocal machine cycle.
- Metered lubrication of each area as required
- Easily adjustable overall output to suit varying operating conditions via unique adjustable cam offering a choice of 8 preset outputs.
- Protected nylon brushes ensure a reliable and accurate feed of oil onto the chains ensuring pins are well lubricated.
- The pump is extremely robust and suitable for use in harsh environments
- A single system oils bearings and chains of any size in any combination.
- Helps keep chains oiled above the level where dust collects and grinding paste can form.

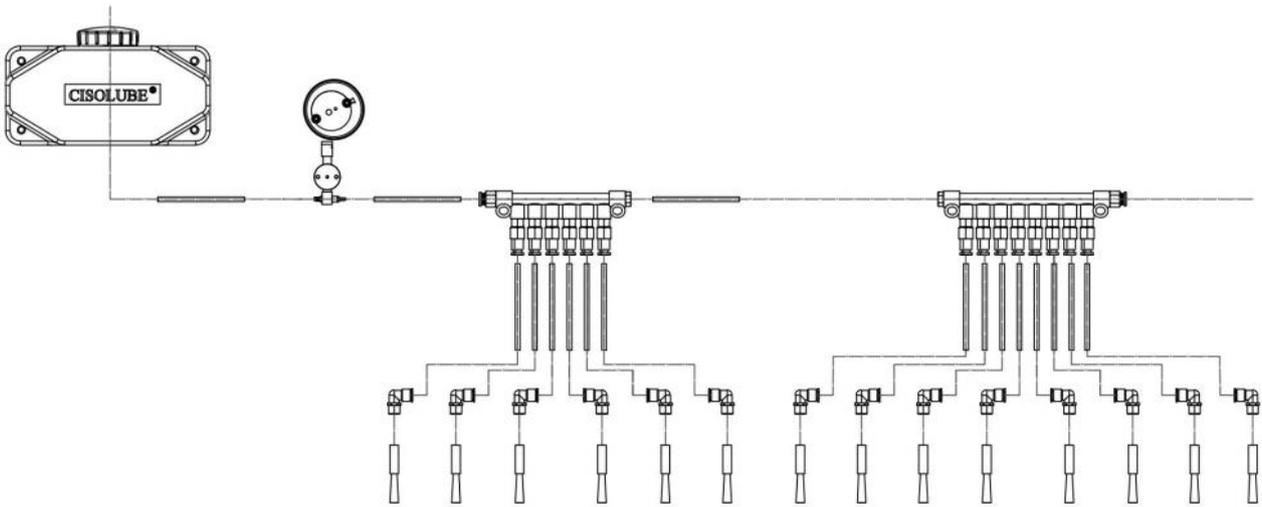


PMM multi-line chain lubrication pump

Dimensions(mm)



Struture diagram



Ordering information

PN.	Part number	Order number	Description
Pump	PMM	27050	Max.2ml / time;Max.280 rpm/min
CAM	CAM	27051	8 preset outputs



**Characteristics**

- Dosing elements are required
- Material: Aluminum
- Small size
- Adjustable displacement
- Suitable for harsh environments
- Immediate response

**PIISTON PUMP WIITH CAM DRIVE**

Simple design, strong structure, easy to install, especially suitable for agricultural machinery.

Use in harsh environments.

The PMN lubrication system made up of a 4 or 7 litre reservoir with suction filter, metering pieces and brushes Lubrication system, the demand of each lubrication point can be adjusted by adjusting the metering parts .The volume can be set, and the total system can also be adjusted by the PMN plunger motion stroke Total oil output.

The PMN system is especially suitable for the chain lubrication requirements of agricultural equipment such as round baler and harvester. For the reason that the push rod is driven by the drive device on the side of the rear compartment door, the drive system follows the stroke of the piston (15mm maximum) and the maximum number of strokes (5 strokes / minute).

PMN lubrication pumps are also suitable for other lubrication requirements, such as gearbox, guide rail, chain, etc., and also for applications that need to maintain constant pressure lubrication.



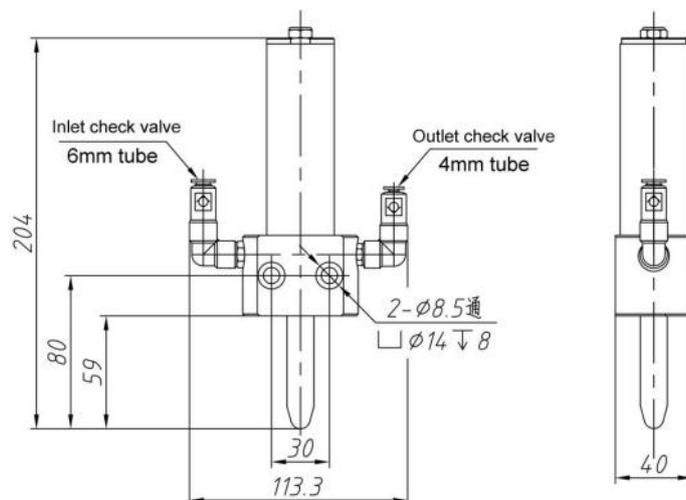
**Application**

- Bundling machine
- Combine harvester
- Pickup machine
- Field mower
- Fertilizer applicator

**Advantage**

- No motors and controller
- Significantly reduce maintenance costs
- Simple installation, small size
- Metered lubrication of each area as required
- Protect the lubricated parts with an uninterrupted frequency

**Dimensions(mm)**



PMN multi-line chain lubrication pump

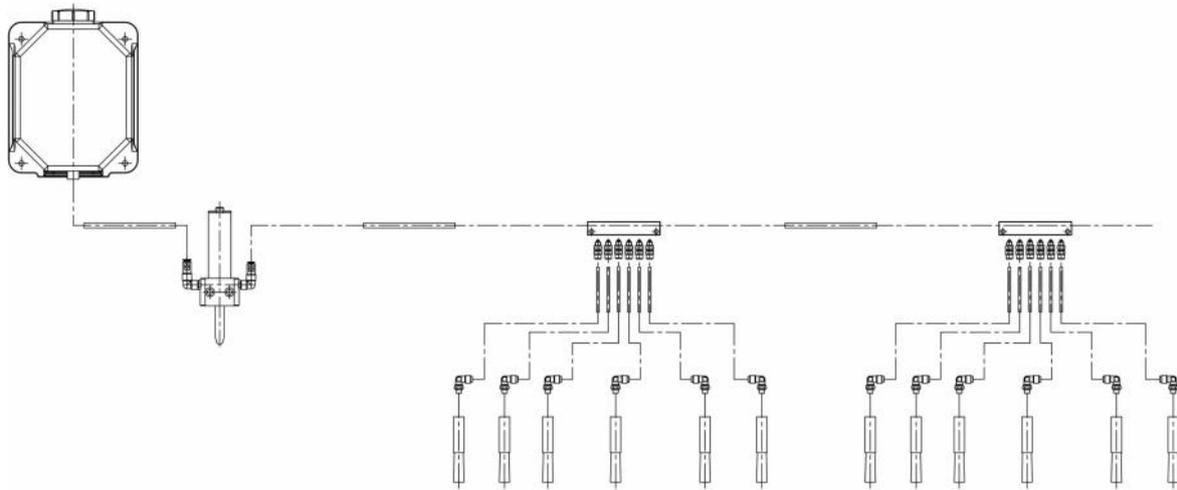
Technical parameters

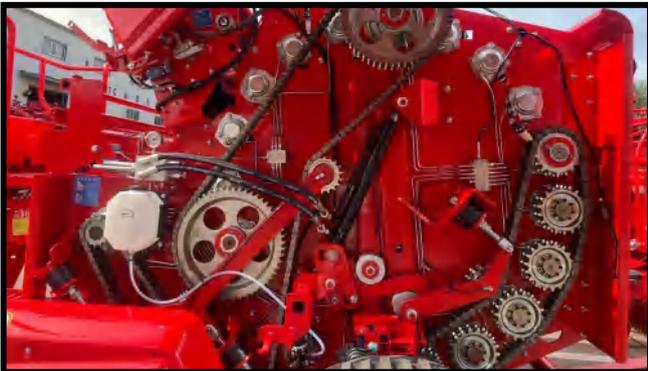
Rated pressure: 10 Bar	Rated flow: 10ml/cyc
Stroke: 15mm	Maximum stroke: 5cyc/min

Ordering information

P.N	Part number	Order number	Description
Pump	PMN	28051	

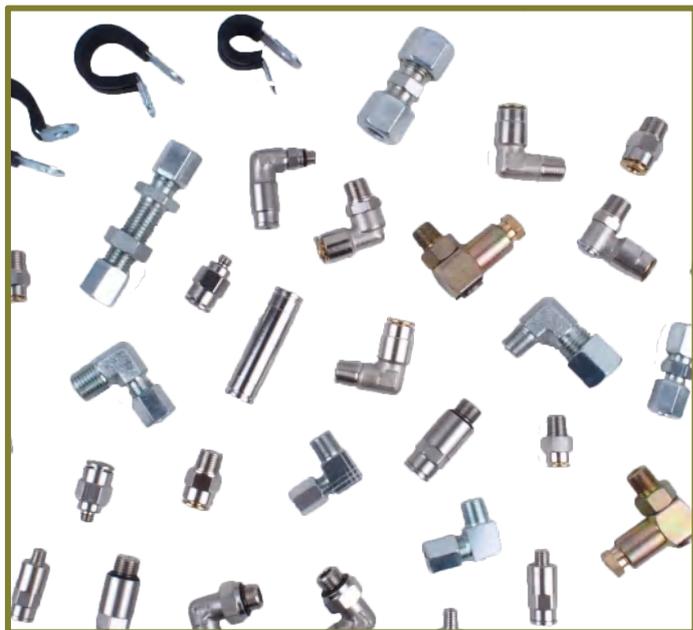
Struture diagram







SIMPLE SOLUTIONS to  
PRECISE LUBRICATION



## Electric lubrication pump accessories

## Pump outlet assembly



## Grease filling connector



Part number	Description	Pressure	OD
80533PG	With pressure gauge	275bar/ 4000psi	6mm
80533PG-8			8mm
80533	Without pressure gauge		6mm
80533-8			8mm

Part number	Description	Thread
80220	Male connector	G1/4
80221	Female connector	G1/4

## GT Pumping Element



## GM Pumping Element



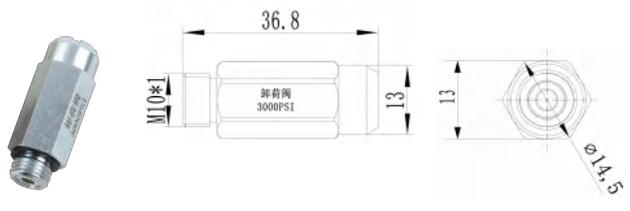
Part number	OD	Rated flow
80536	6mm	A6; 4ml/min
80537	7mm	A7; 5ml/min

Part number	OD	Rated flow
88535	5mm	P5; 3.3ml/min
88536	6mm	P6; 4ml/min



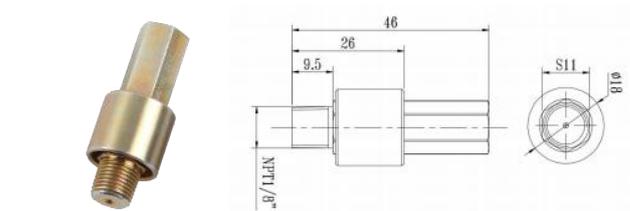
Grease lubrication system accessories

Safety valve



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

Safety valve



Part number	Pressure	Male thread
5FI07	275bar/4000psi	M10*1

Safety valve



Part number	OD	Male thread	Pressure
5FJ01	$\phi 6$	G1/4	345bar/5000psi

Controller shield



Description	Part number	Type
PC	97116	GT
PC	97117	GM

Mounting bracket



Description	Part number	Type
Mounting bracket	90236	GT
	90235	GM



Button with green lamp



Description	Part number
12V	90212
24V	90224

Cartridge



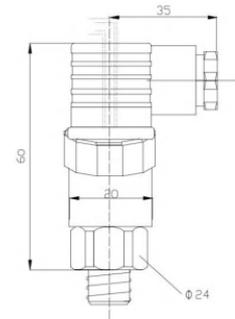
Description	Part number	Reservoir
Cartridge	CSL-J100	700CC
	CSL-C100	700CC

Alarm output cable



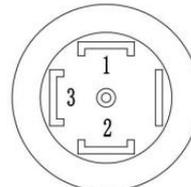
Description	Part number
M12X1; 4Core; 2M	13702

Pressure switch

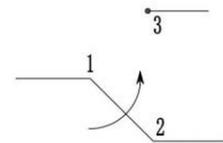


Description	Part number
Adjustable Type	91346

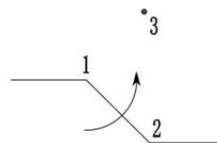
Wiring diagram



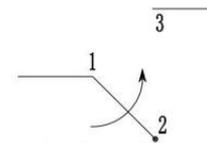
DIN plug



SPDT Normally open + normally closed



SPST Normally closed type



SPST Normally open type

Pump connection cable



Description	Part number
DIN; 4Core; 3M	12703
DIN; 4Core; 10m	12710
DIN; 4Core; 15M	12715



Grease lubrication system accessories

Lubrication system accessories

Straight fitting with check valve      Push in  
25Mpa



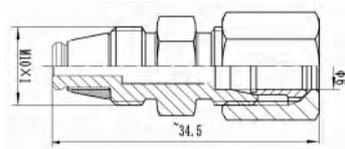
Part number	OD	Thread	Material
FP1104M10	Ø4	M10*1	Zinc plated
FP1106M10	Ø6	M10*1	Zinc plated

Straight fitting      Push in 25Mpa



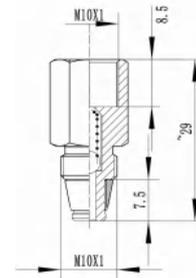
Part number	OD	Thread	Material
HPQ1106M10	Ø6	M10*1	Zinc plated

Straight fitting with check valve      25Mpa



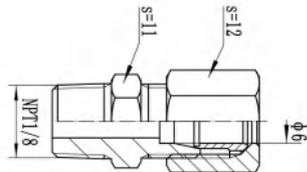
Part number	OD	Thread	Material
5CM0610	Ø6	M10*1	zinc-nickel, brass

Straight fitting with check valve



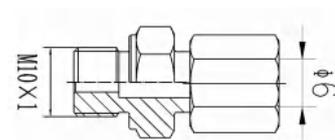
Part number	F.Thread	M.Thread	Material
5DC10	M10*1	M10*1	zinc-nickel, brass

Straight fitting assembly



Part number	OD	Thread	Material
5PM0610	Ø6	NPT1/8	Zinc plated

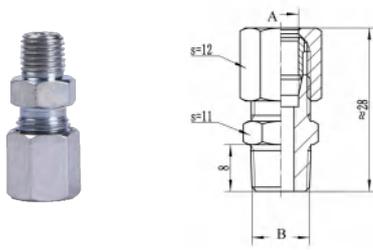
Straight fitting with check valve



Part number	OD	Thread	Material
5VM0610	Ø6	M10*1	Zinc-nickel plated steel

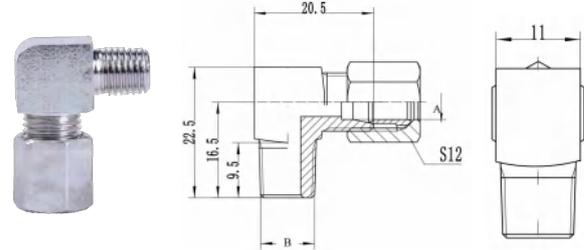


## Straight fitting assembly



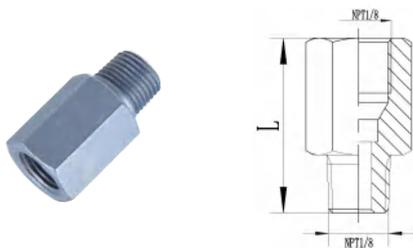
Part number	OD	Thread	Material
5DM0602	Ø6	R1/8	Zinc plated
5DM0610	Ø6	M10*1	Zinc plated
5DM0608	Ø6	M8*1	Zinc plated
5DM0606	Ø6	M6*1	Zinc plated
5DM0402	Ø4	R1/8	Zinc plated
5DM0410	Ø4	M10*1	Zinc plated
5DM0408	Ø4	M8*1	Zinc plated
5DM0406	Ø4	M6*1	Zinc plated

## Angle fitting assembly



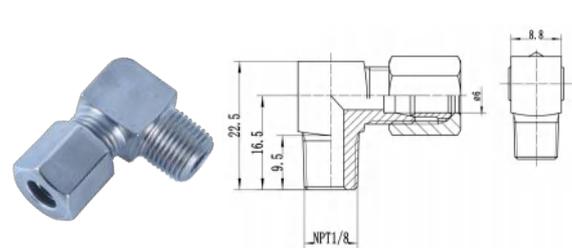
Part number	OD	Thread	Material
5HM0602	Ø6	R1/8	Zinc plated
5HM0610	Ø6	M10*1	Zinc plated
5HM0608	Ø6	M8*1	Zinc plated
5HM0606	Ø6	M6*1	Zinc plated
5HM0402	Ø4	R1/8	Zinc plated
5HM0410	Ø4	M10*1	Zinc plated
5HM0408	Ø4	M8*1	Zinc plated
5HM0406	Ø4	M6*1	Zinc plated

## Straight fitting



Part number	Thread	Thread	Material	L
5GN02	NPT1/8	NPT1/8	Zinc-nickel plated steel	27
5G0202	NPT1/8	NPT1/8		19

## Angle fitting assembly

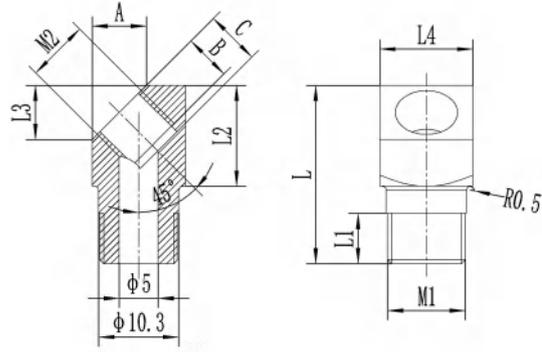


Part number	OD	Thread	Material
5NM0610	Ø6	NPT1/8	Zinc plated





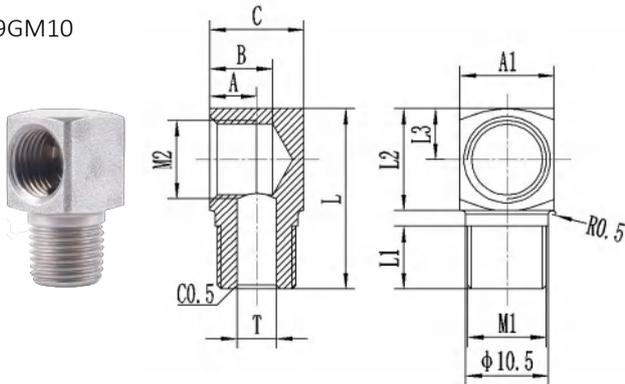
Elbow Connector 45°



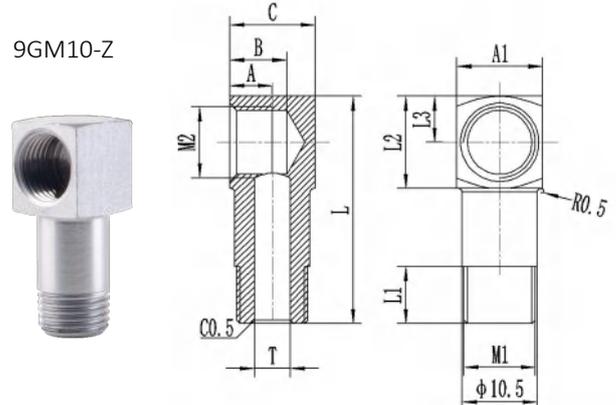
Part number	M1	M2	L	L1	L2	L3	L4	A	B	C
5EM0808	ZM8*1	M8*1	23	6.5	13	7	12	7	6	7
5EM0410	ZM10*1	M8*1	23	6.5	13	7	12	7	6	7
5EM1010	ZM10*1	M10*1	23	6.5	13	7	12	7	6	7
5EM0202	ZG1/8	ZG1/8	23	6.5	13	7	12	7	6	7
5EM0404	ZG1/4	ZG1/4	33	6.5	18	7	12	7	6	7

Angle Connector 90°

9GM10



9GM10-Z

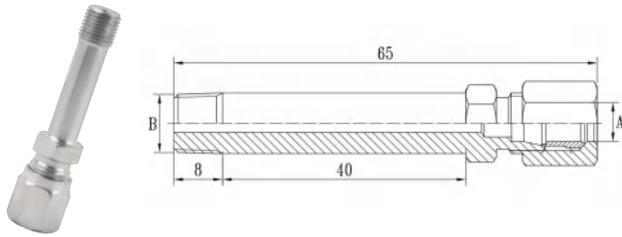


Part number	M1	M2	L	L1	L2	L3	A	B	C	A1
9GM0808	ZM8*1	M8*1	23	8	13	6.5	6	8	12	12
9GM1008	ZM10*1	M8*1	23	8	13	6.5	6	8	12	12
9GM10	ZM10*1	M10*1	23	8	13	6.5	6	8	12	12
9GM10-Z	ZM10*1	M10*1	32	8	13	6.5	6	8	12	12
9GM0202	ZG1/8	ZG1/8	23	8	13	6.5	6	8	12	12
9GM0404	ZG1/4	ZG1/4	33	8	18	6.5	6	8	12	17



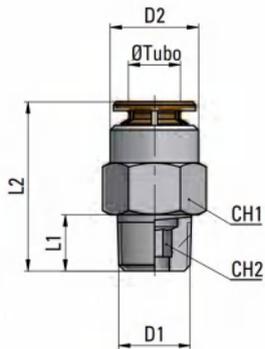
Grease lubrication system accessories

Extension fitting assembly



Part number	OD	Thread M	Material
5KM0602	Ø6	R1/8	Zinc plated
5KM0610	Ø6	M10*1	Zinc plated
5KM0608	Ø6	M8*1	Zinc plated
5KM0606	Ø6	M6*1	Zinc plated
5KM0402	Ø4	R1/8	Zinc plated
5KM0410	Ø4	M10*1	Zinc plated
5KM0408	Ø4	M8*1	Zinc plated
5KM0406	Ø4	M6*1	Zinc plated

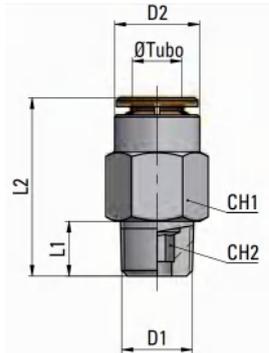
MP11 Taper Straight, Male 10Mpa



Part number	OD	D1	D2	L1	L2
MP110418	Ø4	R1/8	9	7.5	18.5
MP1104M6	Ø4	M6*1.0	9	8	23
MP1104M8	Ø4	M8*1.0	9	8	20
MP1104M10	Ø4	M10*1.0	9	8	20
MP110618	Ø6	R1/8	12	7.5	21.5
MP1106M6	Ø6	M6*1.0	12	8	25.5
MP1106M8	Ø6	M8*1.0	12	8	25.5
MP1106M10	Ø6	M10*1.0	12	8	22

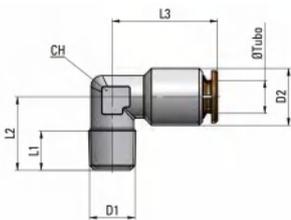


## HP11 Taper Straight, Male 25Mpa



Part number	OD	D1	D2	L1	L2
HP110418	Ø4	R1/8	9.5	7.5	21
HP1104M6	Ø4	M6*1.0	9.5	8	25
HP1104M8	Ø4	M8*1.0	9.5	8	25
HP1104M10	Ø4	M10*1.0	9.5	8	22.5
HP110618	Ø6	R1/8	11.5	7.5	24
HP1106M6	Ø6	M6*1.0	11.5	8	28
HP1106M8	Ø6	M8*1.0	11.5	8	28
HP1106M10	Ø6	M10*1.0	11.5	8	24.5

## MP14 Taper Elbow Fitting, Male 10Mpa

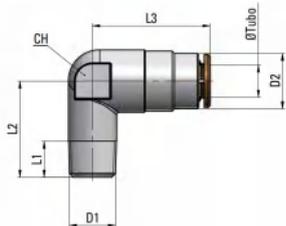


Part number	OD	D1	D2	L1	L2
MP140418	Ø4	R1/8	9	7.5	15.5
MP1404M6	Ø4	M6*1.0	9	8	17
MP1404M8	Ø4	M8*1.0	9	8	17
MP1404M10	Ø4	M10*1.0	9	8	18
MP140618	Ø6	R1/8	12	7.5	15.5
MP1406M6	Ø6	M6*1.0	12	8	17
MP1406M8	Ø6	M8*1.0	12	8	17
MP1406M10	Ø6	M10*1.0	12	8	18



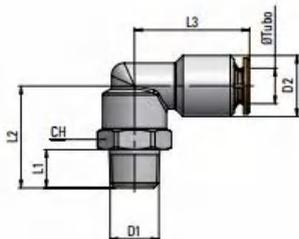
Grease lubrication system accessories

HP14 Taper Elbow Fitting, Male 25Mpa



Part number	OD	D1	D2	L1	L2
HP140418	Ø4	R1/8	9.5	7.5	17
HP1404M6	Ø4	M6*1.0	9.5	8	17
HP1404M8	Ø4	M8*1.0	9.5	8	17
HP1404M10	Ø4	M10*1.0	9.5	8	18
HP140618	Ø6	R1/8	11.5	7.5	20
HP1406M6	Ø6	M6*1.0	11.5	8	20
HP1406M8	Ø6	M8*1.0	11.5	8	20
HP1406M10	Ø6	M10*1.0	11.5	8	21

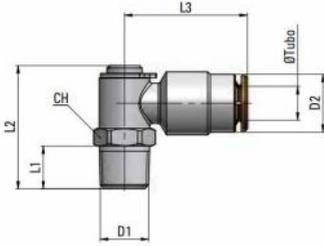
MP15 Taper Elbow Fitting, Male, Rotatable 10Mpa



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

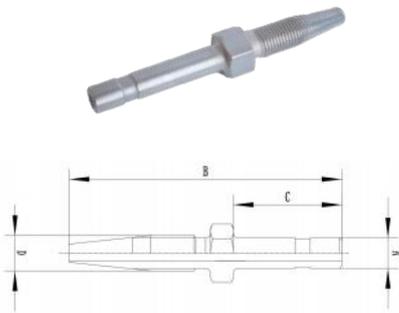


## HP18 Taper Elbow Fitting, Male, Rotatable 25Mpa



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

## Hose coupling straight

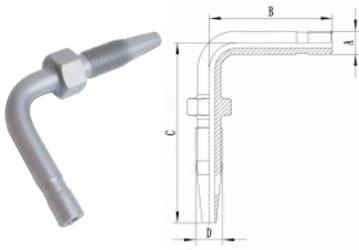


Part number	A	B	C	D	Material
ZZ06	Ø6	60	30	M7*1	Zinc-nickel plated
ZZ06-1(Short)	Ø6	54.5	21.5	M7*1	
ZZ0610	Ø6	63	30	M10*1	
ZZ08	Ø8	63	30	M10*1	



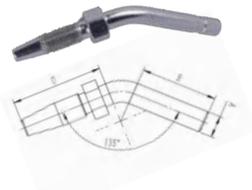
Grease lubrication system accessories

Hose coupling bent



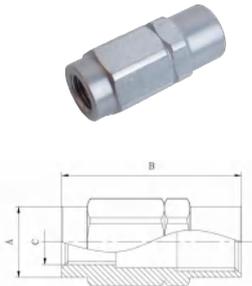
Part number	A	B	C	D	Material
WZ06	Ø6	32	45	M7*1	Zinc-nickel plated
WZ0610	Ø6	32	45	M10*1	
WZ06-1(Short)	Ø6	20	45	M7*1	
WZ08	Ø8	35	50	M10*1	

135°Hose coupling bent



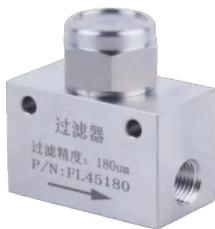
Part number	Pipe diameter	B	C	D	Material
WZ13506	Ø6	30	36	M7*1	Zinc-nickel plated

Threaded sleeve

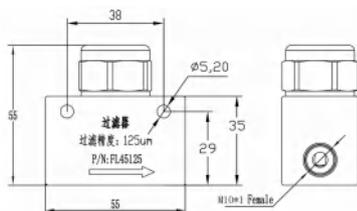


Part number	Pipe diameter	B	C	D	Material
WO06	Ø6	Ø11	28	M7*1	Zinc-nickel plated
WO08	Ø8	Ø14	28	M10*1	

Inset filter:



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



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



## Ferrule



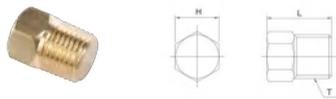
Part number	Thread	TUBE O.D.	MPa
NLL-08	M8*1	Ø4	Super light series LL
NLL-10	M10*1	Ø6	
NL-12	M12*1.5	Ø6	Light series L
NL-14	M14*1.5	Ø8	
NL-16	M16*1.5	Ø10	
NL-18	M18*1.5	Ø12	

## Nuts



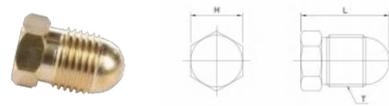
Part number	TUBE O.D.	MPa
RLL-04	Ø4	Super light series LL
RLL-06	Ø6	
RL-06	Ø6	Light series L
RL-08	Ø8	
RL-10	Ø10	
RL-12	Ø12	

## Plane-end plug



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

## Sleeve pipe plug



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



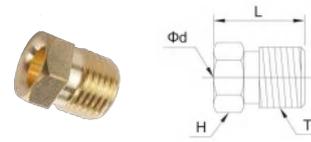
Grease lubrication system accessories

Straight Fitting assembly



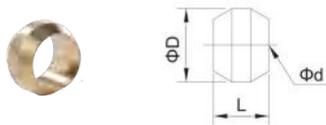
Part number	Ø Tubo	Thread
3D0410T	Ø4	M10*1
3D0610T	Ø6	M10*1
3D0408T	Ø4	M8*1.0
3D0406T	Ø4	M6*1.0

Sleeve pipe cap



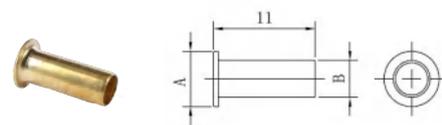
Part number	OD	Ød	ØD	L
3A04	4	4.1	12	4.5
3A06	6	6.1	12.5	5
3A08	8	8.1	14	7
3A10	10	10.1	15	8

Sleeve pipe



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

Inner screw of pipe



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



## High-pressure flexible pipe



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

## Nylon tubing (BP in black; WP in white )



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

## Steel tubing



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

## Spring coil



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



Grease lubrication system accessories

Flat hose plastic jacket



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

Cable tie



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

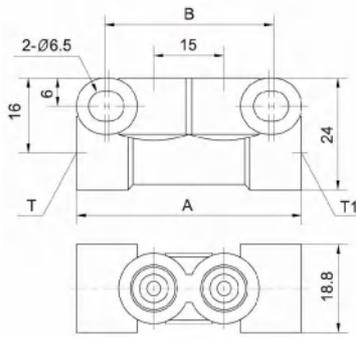
R Pipe clamp



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



DSM metering devices

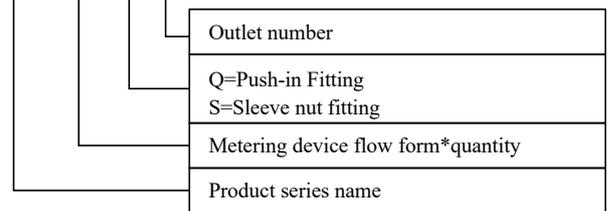


Part number	T/T1	OD	Outlets number	Flow pattern	A	B
DSM metering devices	M8X1	Ø4	2	00 0 1 2 3 4 5	48	34.5
	M8X1	Ø4	3		64	50.5
	M8X1	Ø4	4		80	66.5
	M8X1	Ø4	5		96	82.5
	M8X1	Ø4	6		112	98.5
	M8X1	Ø4	7		128	114.5
	M8X1	Ø4	8		144	130.5

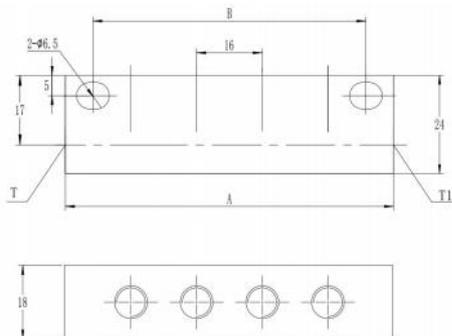
The base material is cast iron

Ordering info

example: DSM-1M\*4-Q4-4T



DSMT metering devices

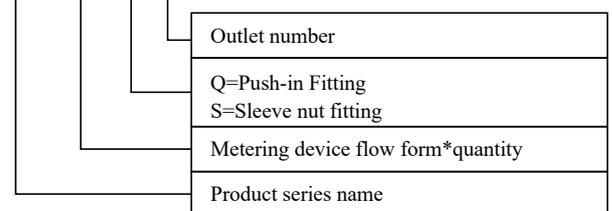


Part number	T1/T2	OD	Outlets number	Flow pattern	A	B
DSMT metering devices	M8X1	Ø4	2	00 0 1 2 3 4 5	48	34.5
	M8X1	Ø4	3		64	50.5
	M8X1	Ø4	4		80	66.5
	M8X1	Ø4	5		96	82.5
	M8X1	Ø4	6		112	98.5
	M8X1	Ø4	7		128	114.5
	M8X1	Ø4	8		144	130.5

The base material is aluminum

Ordering info

example: DSMT-1M\*4-Q4-4T

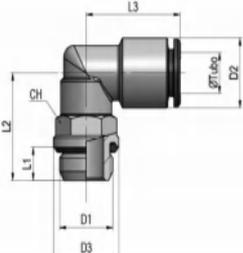


Chain lubrication system accessories

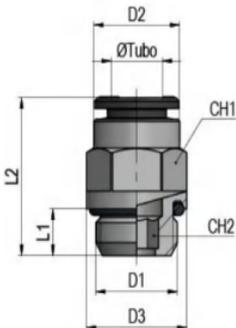
Reservoir 4L	Part number	Technical specifications
	RV08E04	Outlet OD 8mm; With filter
	RV10E04	Outlet OD10mm; With filter

Reservoir 7L	Part number	Technical specifications
	RV08E07	Outlet OD 8mm; With filter
	RV10E07	Outlet OD10mm; With filter

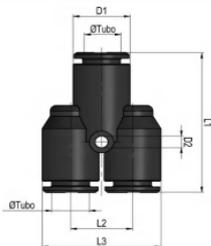
Elbow Fitting, male 2Mpa						
Part number	OD	D1	D2	L1	L2	Usage
AP160418	Ø4	G1/8	9	7.5	20	Pump outlet, brush



Straight Push-in fitting , male 2Mpa						
Part number	OD	D1	D2	L1	L2	Usage
AP120814	Ø8	G1/4	12	8	25.5	Reservoir outlet
AP121014	Ø10	G1/4	12	8	25.5	Reservoir outlet
AP120418	Ø4	G1/8	9	7.5	18.5	Pump outlet, brush
AP120818	Ø8	G1/8	9	8	20	Pump inlet
AP121018	Ø10	G1/8	12	8	25.5	Pump inlet

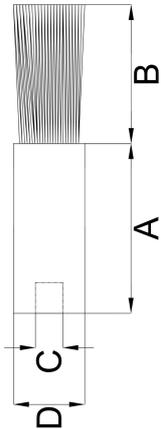


Tee Fitting						
Part number	OD	D1	D2	L1	L2	L3
AP290404	Ø4	10	3.13	31.5	10	19.5



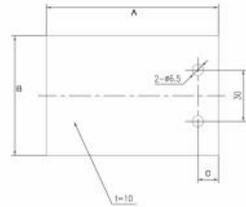


## Brushes



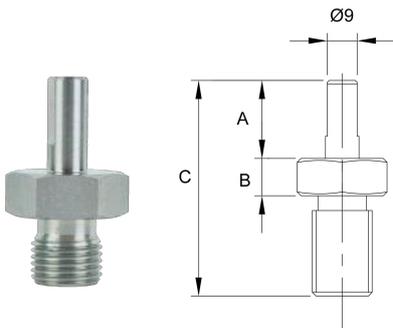
Part number	A	B	C	D	Material
MS-B01	55	44.8	G1/8	16	NYLON
MS-B02	55	44.8	G1/8	23	NYLON

## Felt



Part number	A	B	C	T
FT50	70	50	11	10
FT70	100	70	12	10

## Coupling bolt



Part number	Male thread	A	B	C
M14*2L61	M14*2	21	10	61
M16*1.5L46	M16*1.5	21	10	46
M16*1.5L58	M16*1.5	21	10	58
M16*2L58	M16*2	21	10	58

## Nylon Tubing

(BP in black; WP in white)



Part number	Piping outer diameter	Piping Inside diameter
T-BP04	Ø4	Ø2.5
T-BP06	Ø6	Ø3
T-BP08	Ø8	Ø6
T-BP10	Ø10	Ø8
T-WP04	Ø4	Ø2.5
T-WP06	Ø6	Ø3
T-WP08	Ø8	Ø6
T-WP10	Ø10	Ø8



Chain lubrication system accessories

Plastic helix



Part number	Ød	Piping outer diameter
THL04	4	4
THL06	6	6
THL08	8	8.6
THL10	10	11

R Pipe clamp



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

Cable tie



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



# CISO

LUBRICATION SYSTEM

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MADE IN CHINA

