CisoLube®
LUBRICATION SYSTEM

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PROGRESSIVE LUBRICATION SYSTEM

2024 V1.2
PROGRESSIVE
LUBRICATION SYSTEM

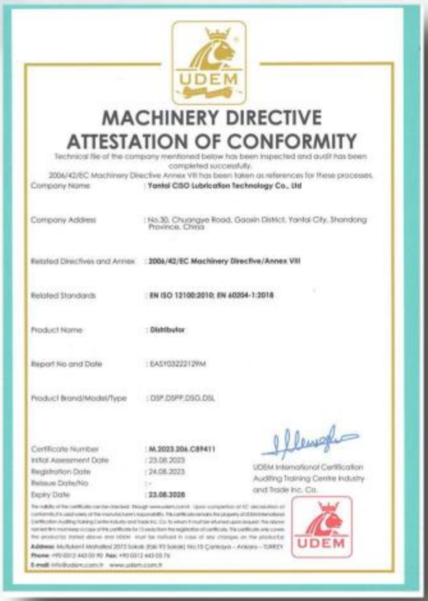
烟台西索润滑技术有限公司
YANTAI CISOLUBE CO.LID
ADD：山东省烟台市高新区创业路30号 WEB:WWW.CISOLUBE.COM
TEL:+86 400-800-9400

COMPANY PROFILES

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.

COMPANY CERTIFICATE



UDEM

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 VIII has been taken as references for these processes.

Company Name	: **Yantai CISO Lubrication Technology Co., Ltd**
Company Address	: No.30, Chuangye Road, Gaoxin District, Yantai City, Shandong Province, China
Related Directives and Annex	: **2006/42/EC Machinery Directive/Annex VIII**
Related Standards	: **EN ISO 12100:2010; EN 60204-1:2018**
Product Name	: **Distributor**
Report No and Date	: EASY03222129M
Product Brand/Model/Type	: DSP,DSPF,DSG,DSL
Certificate Number	: **M.2023.206.C89411**
Initial Assessment Date	: 23.08.2023
Registration Date	: 24.08.2023
Reissue Date/No	: -
Expiry Date	: **23.08.2028**

UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co.

Address: Mutlukent Mahallesi 2073 Sokak (Eski 93 Sokak) No:10 Çankaya – Ankara – TURKEY
Phone: +90 0312 443 03 90 **Fax:** +90 0312 443 03 76
E-mail: info@udem.com.tr www.udem.com.tr

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Related Directives and Annex	: **2006/42/EC Machinery Directive/Annex VIII**
Related Standards	: **EN ISO 12100:2010; EN 60204-1:2018; EN 809:1998+A1:2009**
Product Name	: **Electric lubrication pump**
Report No and Date	: EASY03222127M
Product Brand/Model/Type	: GT-PLUS,GM,GW,GT-MAX,GP-212
Certificate Number	: **M.2023.206.C89410**
Initial Assessment Date	: 23.08.2023
Registration Date	: 24.08.2023
Reissue Date/No	: -
Expiry Date	: **23.08.2028**

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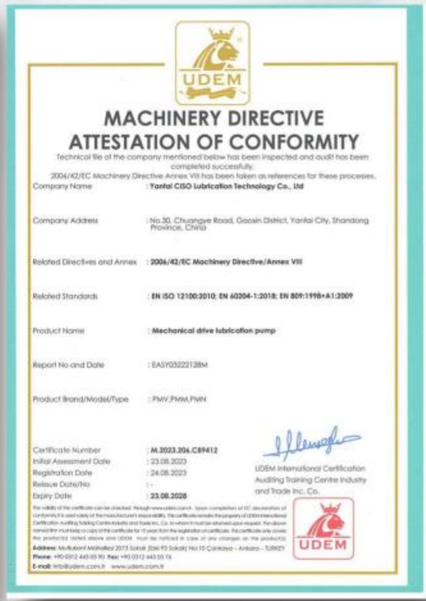

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Related Directives and Annex	: **2006/42/EC Machinery Directive/Annex VIII**
Related Standards	: **EN ISO 12100:2010; EN 60204-1:2018; EN 809:1998+A1:2009**
Product Name	: **Mechanical drive lubrication pump**
Report No and Date	: EASY03222128M
Product Brand/Model/Type	: PMV,PMM,PMN
Certificate Number	: **M.2023.206.C89412**
Initial Assessment Date	: 23.08.2023
Registration Date	: 24.08.2023
Reissue Date/No	: -
Expiry Date	: **23.08.2028**

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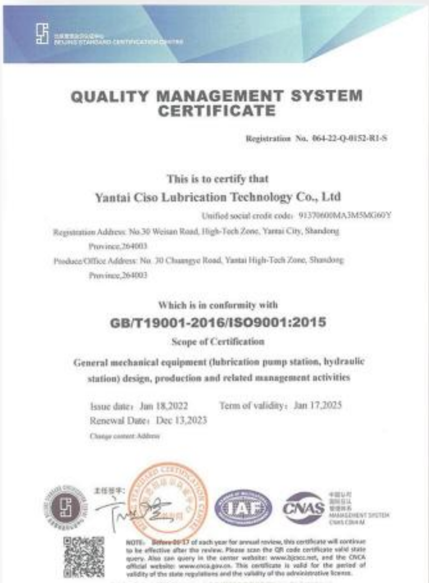

BEIJING STANDARD CERTIFICATION CENTRE

QUALITY MANAGEMENT SYSTEM CERTIFICATE

Registration No. 064-22-Q-0152-R1-S

This is to certify that

Yantai Ciso Lubrication Technology Co., Ltd

Unified social credit code: 91370600MA3M5MG60Y

Registration Address: No.30 Weisan Road, High-Tech Zone, Yantai City, Shandong Province,264003

Produce/Office Address: No. 30 Chuangye Road, Yantai High-Tech Zone, Shandong Province,264003

Which is in conformity with

GB/T19001-2016/ISO9001:2015

Scope of Certification

General mechanical equipment (lubrication pump station, hydraulic station) design, production and related management activities

Issue date: Jan 18,2022 Term of validity: Jan 17,2025
Renewal Date: Dec 13,2023
Change content: Address

NOTE: Before 01.17 of each year for annual review, this certificate will continue to be effective after the review. Please scan the QR code certificate valid state query. Also can query in the center website: www.bjcsicc.net, and the CNCA official website: www.cnca.gov.cn. This certificate is valid for the period of validity of the state regulations and the validity of the administrative license.

AXE REGISTER

CERTIFICATE

N. CN23 – 24511B

This is to certify that the Environmental Management System of

Yantai CISO Lubrication Technology Co.,Ltd.

Unified social credit code: 91370600MA3M5MG60Y
Registered Address
No.30, Weisan Road, High-tech Zone, Yantai, Shandong
Office & Production Address
No.30, Chuangye 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 Station, Hydraulic Station)

IAF 18

Date of first registration	19/10/2023
Date of this certificate	19/10/2023
Date of expiry	18/10/2026

AXE REGISTER

AXE REGISTER

CERTIFICATE

N. CN23 – 24511C

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

Yantai CISO Lubrication Technology Co.,Ltd.

Unified social credit code: 91370600MA3M5MG60Y
Registered Address
No.30, Weisan Road, High-tech Zone, Yantai, Shandong
Office & Production Address
No.30, Chuangye 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 Station, Hydraulic Station)

IAF 18

Date of first registration	19/10/2023
Date of this certificate	19/10/2023
Date of expiry	18/10/2026

AXE REGISTER

CISOLUBE CATALOG

2024

www.cisolube.com

CONTENTS 目录

Progressive lubrication system description

1. Construction and design:

The progressive lubrication system comprises a feed pump and progressive distributors, whereby, the distributor is equip ped with a circulation control . In addition there are the necessary pipelines, threaded pipe fittings and fastening compone nts. Pressure indicator in the inlet of the respective progressive distributor, are additionally helpful for function control.

The design of the system depends on the number of lubrication points to be connected and the grease dose requirements. If a distributor cannot meet all the lubrication points, then a distributor must be designed to act as a primary distributor, a nd the primary distributor is connected to the secondary distributor, and the whole system can have up to three levels of d istributors.

The lubrication pump should be assembled on an easily accessible position of the machine, so that uncomplicated refilli ng of the container is possible. The progressive distributor should be assembled as close to the lubrication points as possi ble.

The line system must be designed such that it can take maximum pump pressure. Preferably steel pipes are laid. If mobil e lubrication points are to be lubricated, high pressure hoses of appropriate dimension must be used. The length of the hi gh pressure hoses should be kept as short as possible, as these expand under pressure and can intake appropriate lubricant quantity. Timely secure feeding of the lubricant is thus no longer guaranteed.Shortening the use of high pressure hoses ca n also avoid the negative reaction of rapid high pressure to the lubricant.

2. Mode of action:

The lubricant is pumped into the main line by actuating the pump and fed to the connected progres-sive distributor. The l ubricant is distributed over the number of outlets of the distributor and then delivered to the lubrication points or fed to a nother downstream progressive distributor, divided there and dispensed to the connected lubrication points. Dosing is do ne as per the selection of the dosing elements with different flow rates. A circulation control detects every circulation of t he system. If a progressive distributor cannot deliver its lubricant or if a piston is blocked e.g. due to contaminat-ion, the system reports fault i.e. the circulation control has not reported within the monitoring time.

3. Start-up:

Before start-up, the pump must be filled with clean grease without any air bubbles. It is important that the pump is filled using a filling or barrel pump. The barrel pumps mustbe equipped with follow up piston. Clean and air-bubble-free filling can thus be ensured. A cartridge pump with pre-filled cartridges may also be used for small consumption quantities.

Then the pump and subsequently the progressive distributor must be ventilated. Pumping follows till bubble-free lubrican t appears first on the pump and then on all the outlets of the main distributor and subsequently on the downstream progre ssive distributors.

Particularly for large systems, which are operated with grease, it is essential to start the system step-wise from the lubrica tion point to the pump i.e. lubrication points, lines and progressive distributor must be pre-filled individually. The pressur e requirement of individual segments of the system can thus be checked directly. Pay attention that the lubricant is refille d on time, for preventing air bubbles in the system. Else the complete system must be re-ventilated.

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Progressive lubrication system description

4. Assembly:

The fastening surface of the progressive distributor must be plane, so that the housing is not braced while screwing. If required, washers may be required for alignment.Outlet bore of the progressive distributor must be closed. Cleanliness must be observed. Pumps, progressive distributor and particularly the pipelines and fittings must be cleaned thoroughly prior to the assembly.

5. Lubricant:

Generally, grease can be dispensed based on mineral oil that shows a walk penetration more than 265 (1/10 mm), NLGI-Klasse 000 - 2 in the bielomatik progressive lubrication system.Greases must not be mixed. In exceptional case.

6. Maintenance:

Impermeability of the system and the container fill level must be checked at regular intervals. A fault occurs if the circulation control has not responded within the monitoring time.

Reasons:

a) Container or barrel empty.

b) Pump not ventilated or defective.

c) System blocks at high pump pressure.

- Lubrication line closed
- Lubrication point or its channel closed
- Outlet on the progressive distributor closed

unauthorised

- Piston in the progressive distributor fits tightly (bracing, contamination)
- Channel within the progressive distributor closed due to contamination.
- All pistons of a progressive distributor are at centre position.

In case the system is blocked, fault may occur at any location in the system. There is overpressure at the blocked location, which is signalled to the relevant pressure indicator by a protruding pin. Source of fault can thus be localised on a secondary distributor.

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Progressive lubrication system

For oil, fluid grease and grease lubrication system

Characteristic

- Compact, flexible kit
- Monitored function
- Channels flow through completely
- Wide range of use
- Integrated return valve inside

The system components

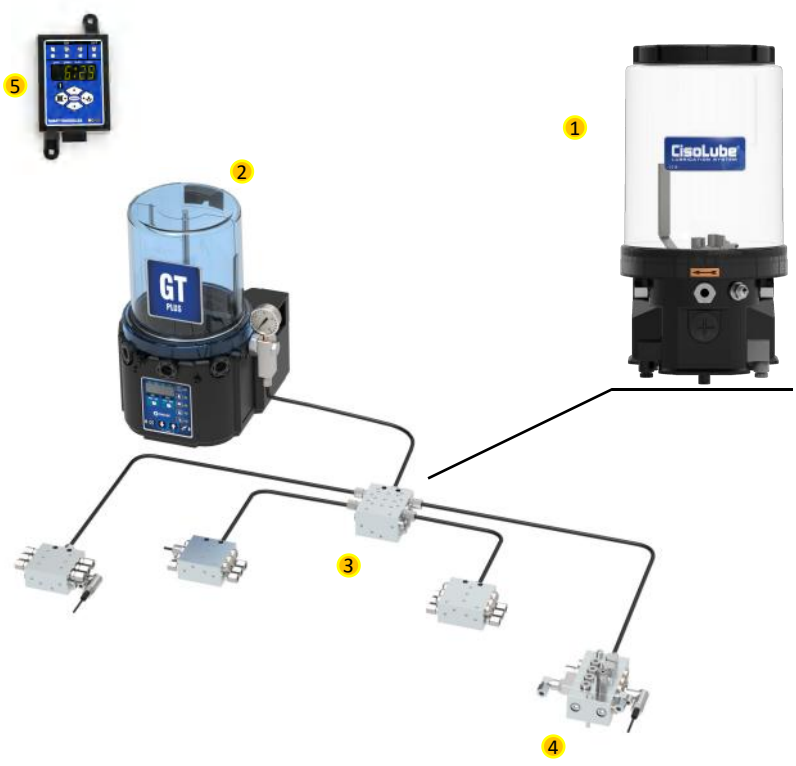
- Manual, pneumatic and electrical pumps
- Main lines
- Progressive distributor
- Line to the lubrication point
- Screwed fittings
- Control and monitoring devices

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：



1 - GP203 Lubrication pump

2 - GT Lubrication pump

3 - DSP progressive distributor

4 - VB progressive distributor

5 - Controller

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GT Lubrication pump

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

THE SMALL PUMP PACKAGE WITH BIG FEATURES

DESIGN AND ADVANCED SOLUTIONS

GT 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.

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

- 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

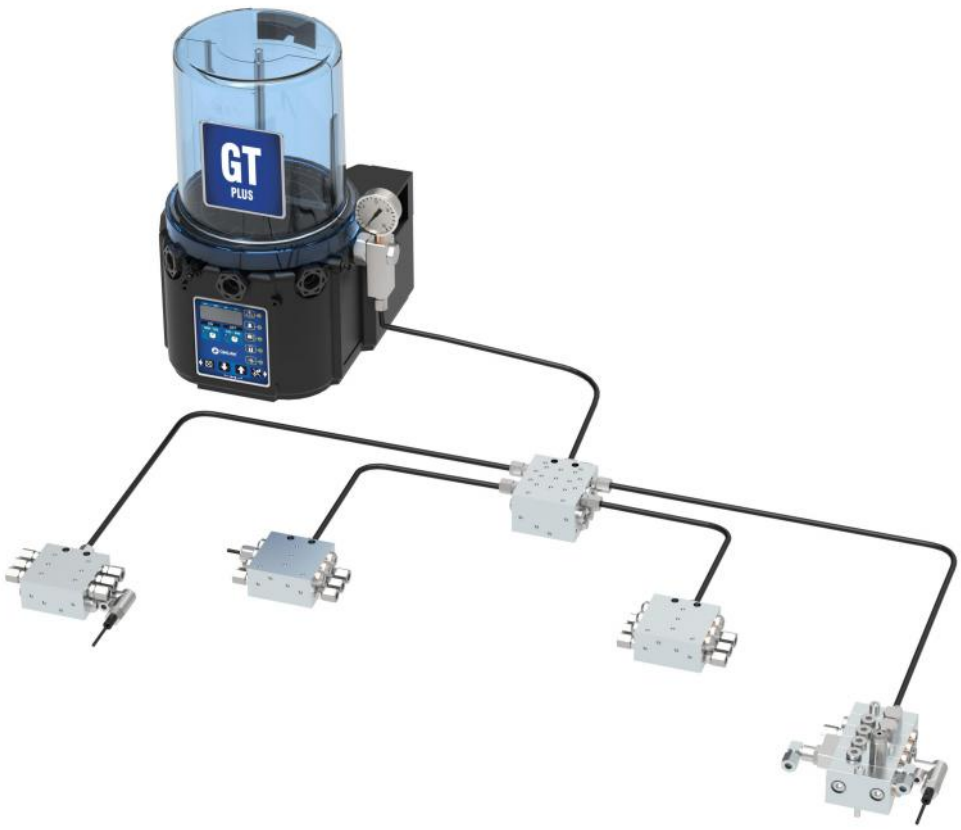
- Construction machinery
- Agricultural equipment
- Wind power equipment
- Press machine
- Mining equipment
- Ship and Marine engineering
- Food and drinking
- Textile

……

Technical information:

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

System production case:



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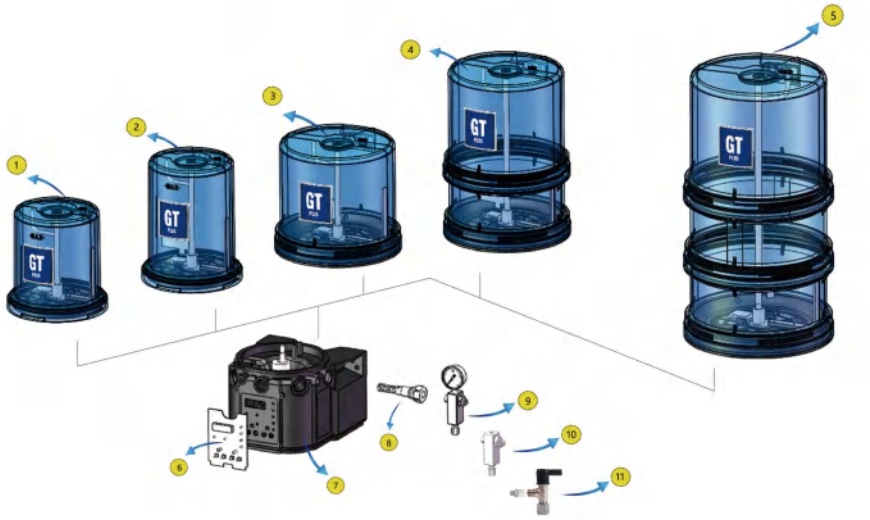
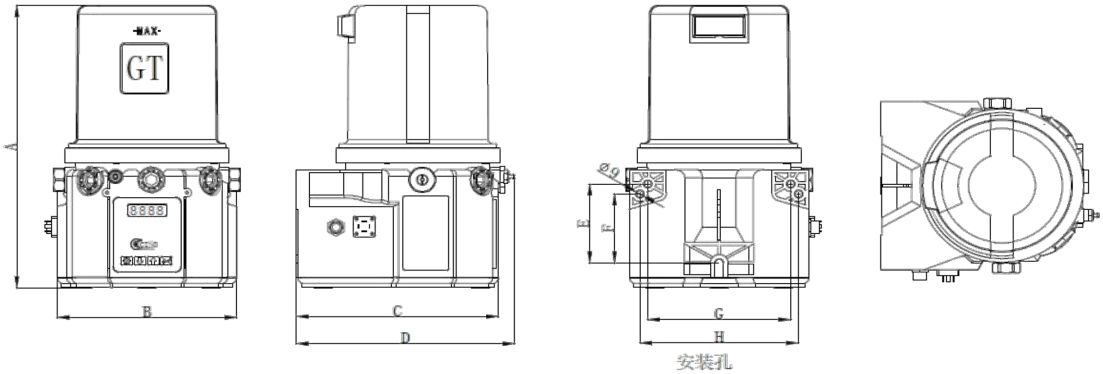


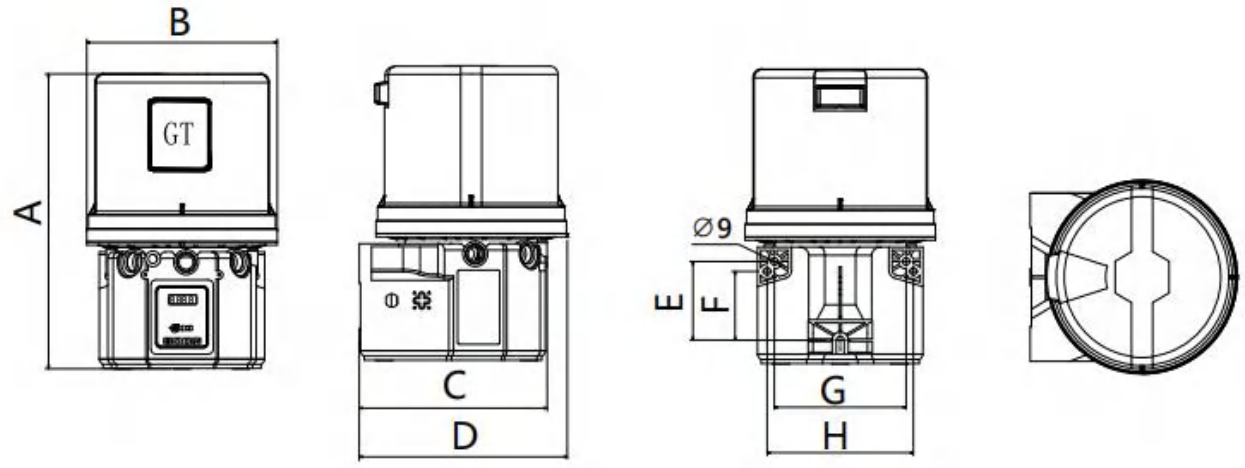
№	Part	№	Part
1	2L Pump Tank	7	Pump base
2	4L Pump Tank	8	GT Pumping Element
3	6L Pump Tank	9	Pump outlet assembly（With pressure gauge）
4	8L Pump Tank	10	Pump outlet assembly（Without pressure gauge）
5	12L Pump Tank	11	Relief valve
6	Control panel		

2L & 4L Dimensions(mm)：



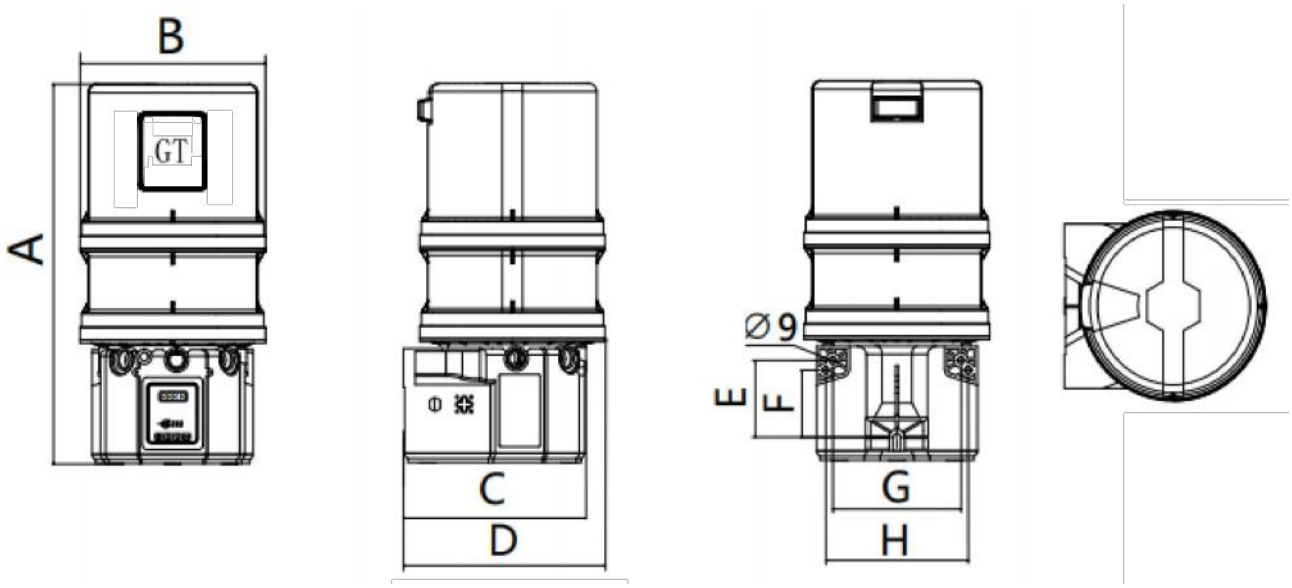
Reservoirs	A	B	C	D	E	F	G	H
2L	338	204	231.5	248	95.5	83.5	162.5	180
4L	378	204	231.5	248	95.5	83.5	162.5	180

6L Dimensions (mm):



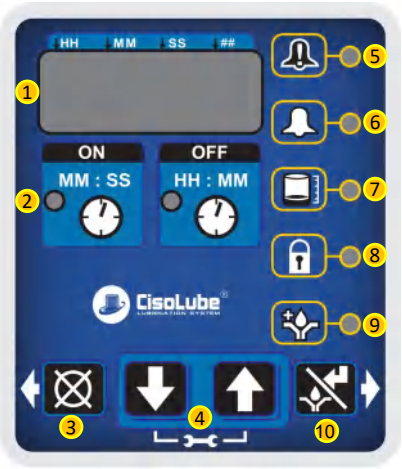
Reservoirs	A	B	C	D	E	F	G	H
6L	358	235	231.5	256.5	95.5	83.5	162.5	180

8L & 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

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

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

Top cap：

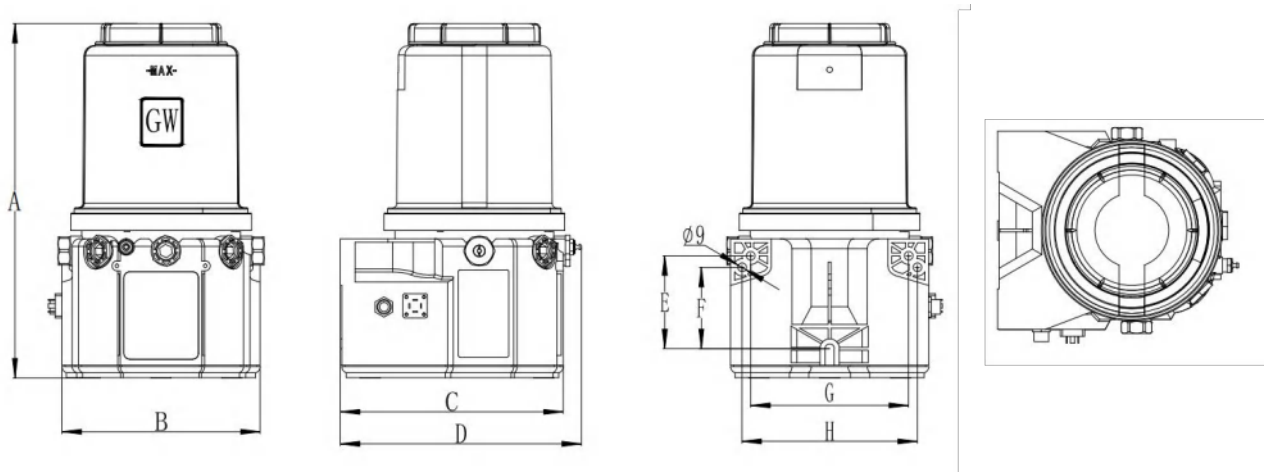
1. Order the GT pump for the upper grease cover.Please add - B after the standard part number. For example:20D220-B

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

Applicable：2L、6L、8L、12L

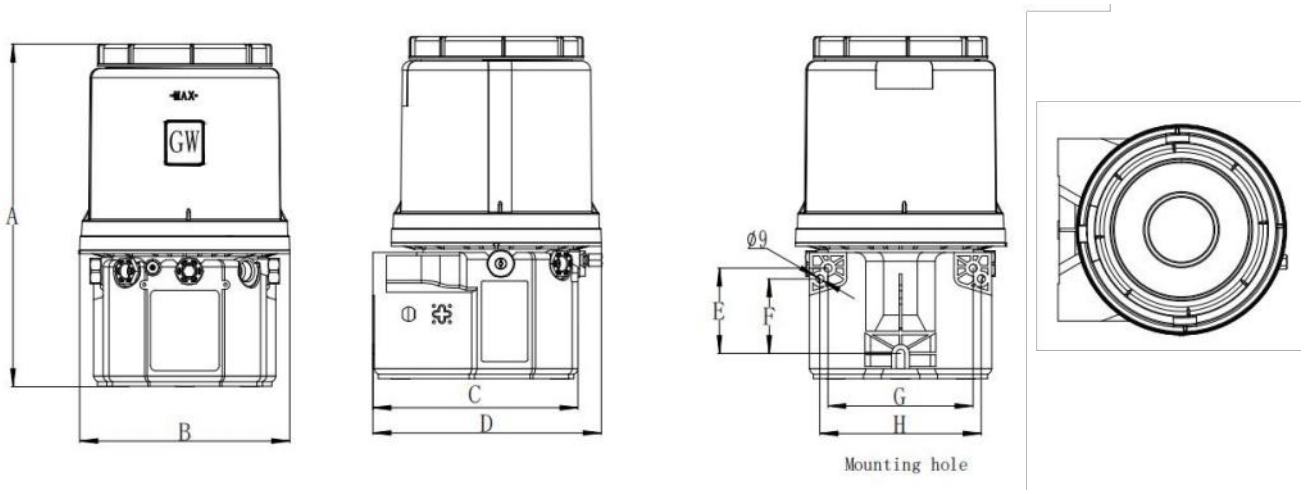
This top cover method is not suitable for 4L tanks

2L Dimensions（mm）：

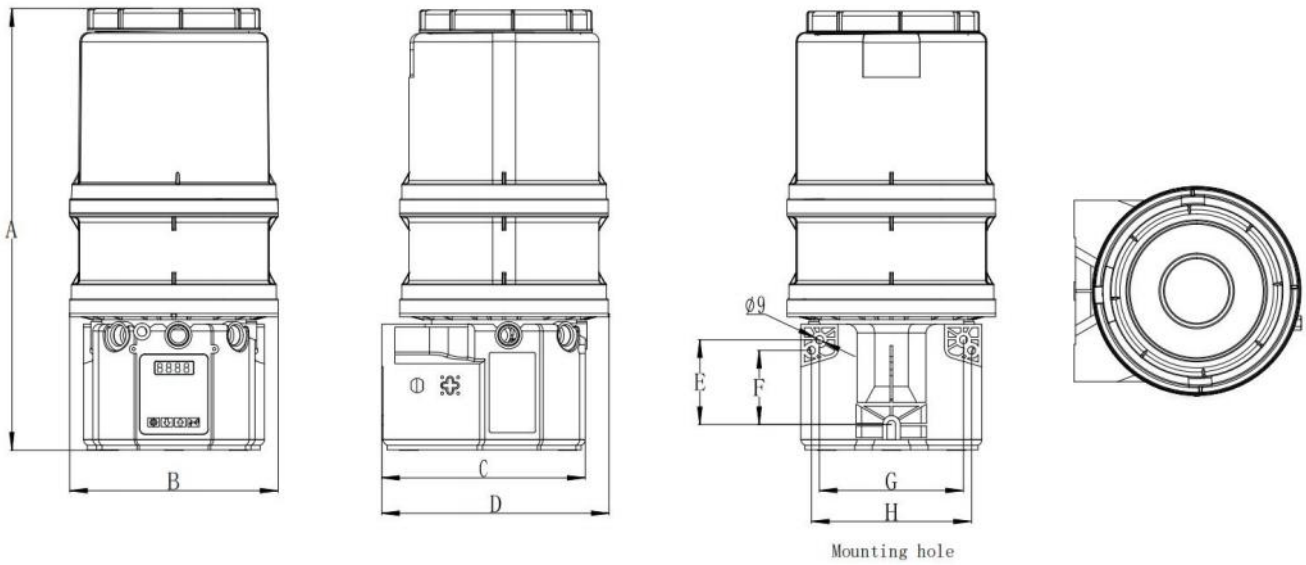


Reservoir	A	B	C	D	E	F	G	H
2L	365	204	231.5	248	95.5	83.5	162.5	180.5

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

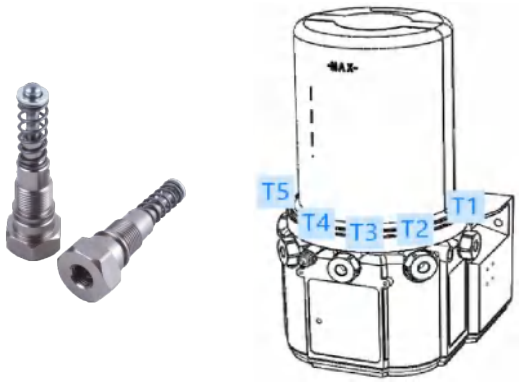


Reservoir	A	B	C	D	E	F	G	H
8L	498	235	231.5	255.5	95.5	83.5	162.5	180.5

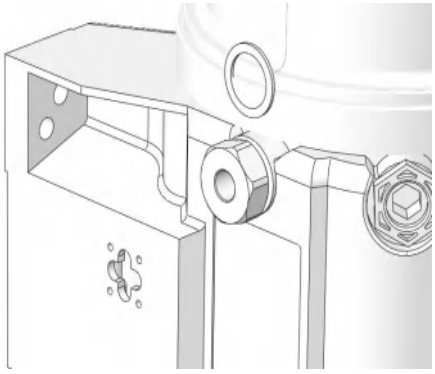
Ordering information：

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.



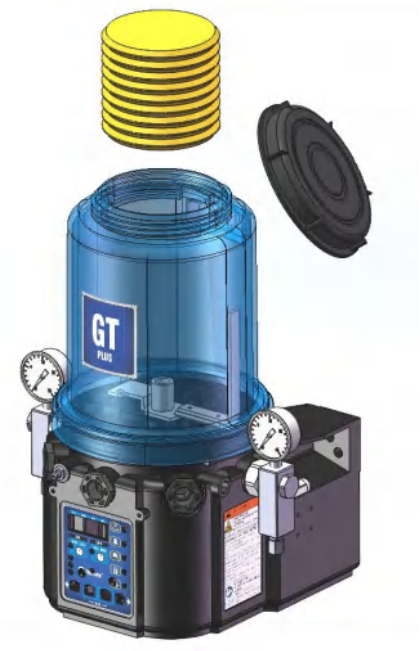
No. Spacers	**Output Volume/Minute**	
	cubic inches	cubic cm
2	0.12	2
1	0.18	3
0	0.25	4

Ordering code：80535

Fill grease type：

❶ with grease gun kits

❷ with cartridge



❸ with hand pump

Ordering information:

20- □ □ □ □ □ □ □ □

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

Grease filling connector

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

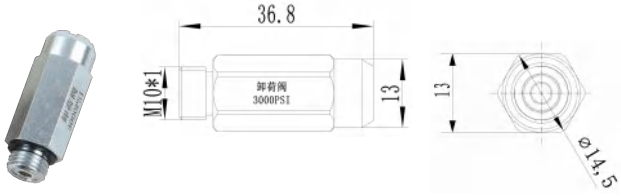
GT Pumping Element

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

Pump outlet assembly

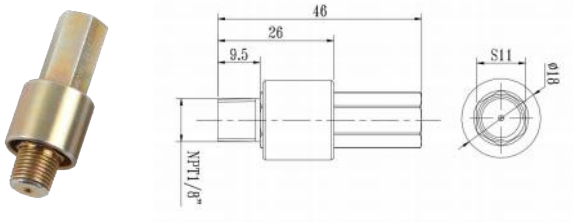
Part number	Description	Pressure	OD
80533PG	With pressure gauge	275bar/ 4000psi	6mm
80533PG-8			8mm
80533	Without pressure gauge		6mm
80533-8			8mm

Safety valve



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

Safety valve



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

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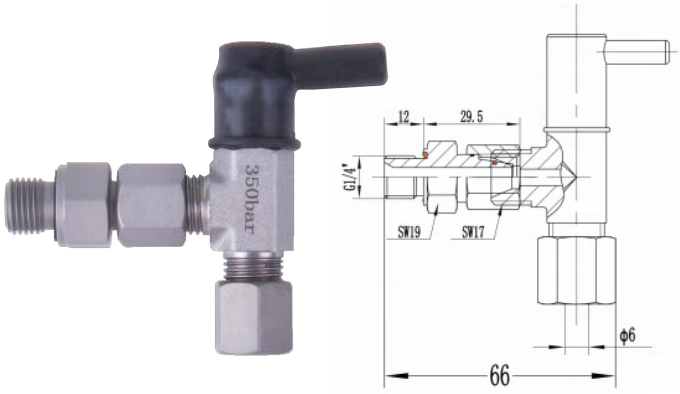
Safety valve

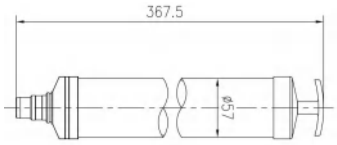


Part number	OD	Male thread	Pressure
5FJ01	φ6	G1/4	345bar/5000psi

Controller shield

Description	Part number
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

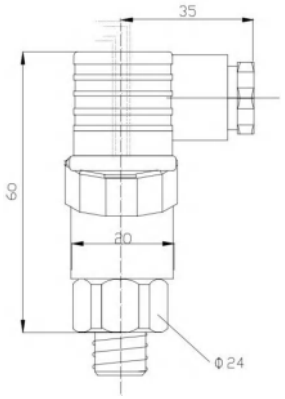
GT Mounting bracket

Description	Part number
Mounting bracket	90236

Button with green lamp

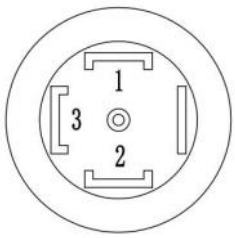
Description	Part number
12V	90212
24V	90224

Pressure switch

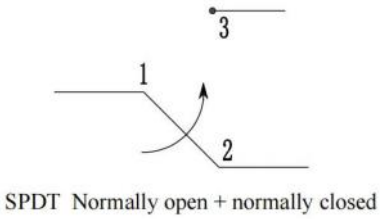


Description	Part number
Adjustable Type	91346

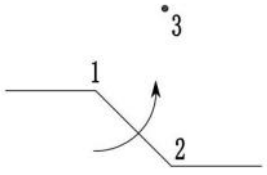
Wiring diagram



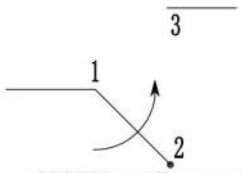
DIN plug



SPDT Normally open + normally closed



SPST Normally closed type



SPST Normally open type

Cartridge

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

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 suitablefor 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 levelalarm,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

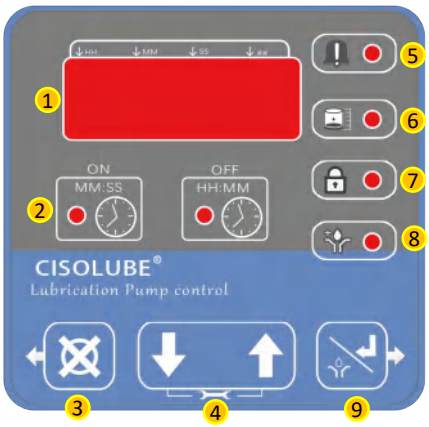
- Resevoisr：1.5L、2L、4L
- Voltages:12VDC、24VDC、220VAC
- Pump oil and grease
- Multiple grease filling ways
- Powerful centralized control system
- CE Certification
- Design patent
- IP67

Application

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

.....

Control System



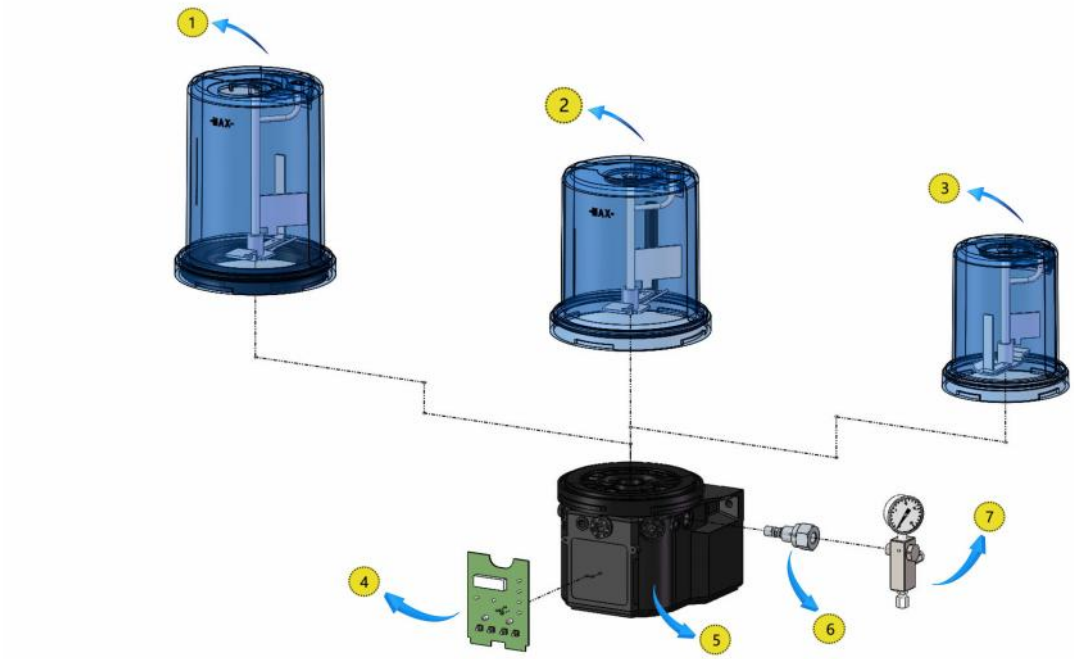
Basic function

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

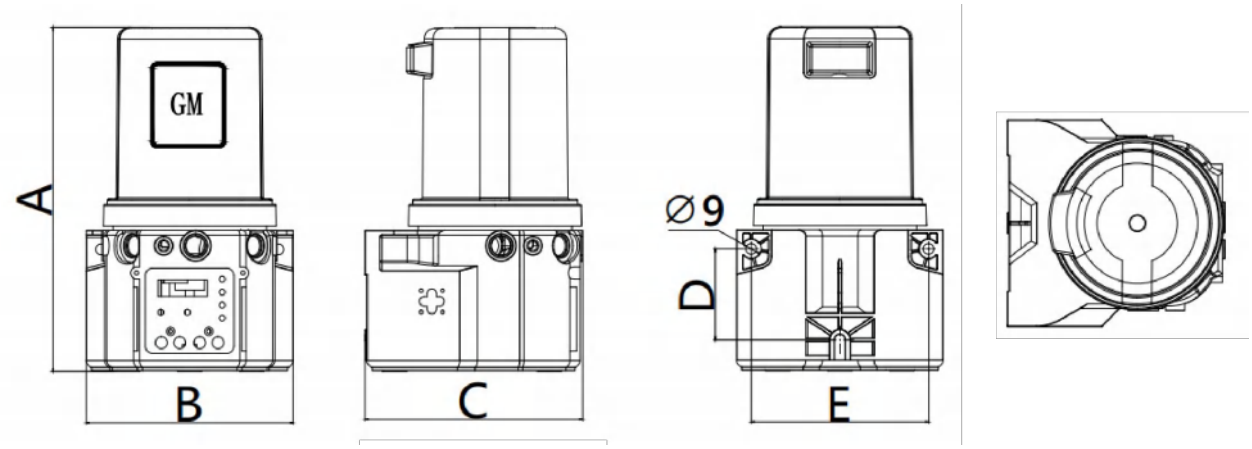
7. Access to the control device is password protected
8. Pre-lube capability

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



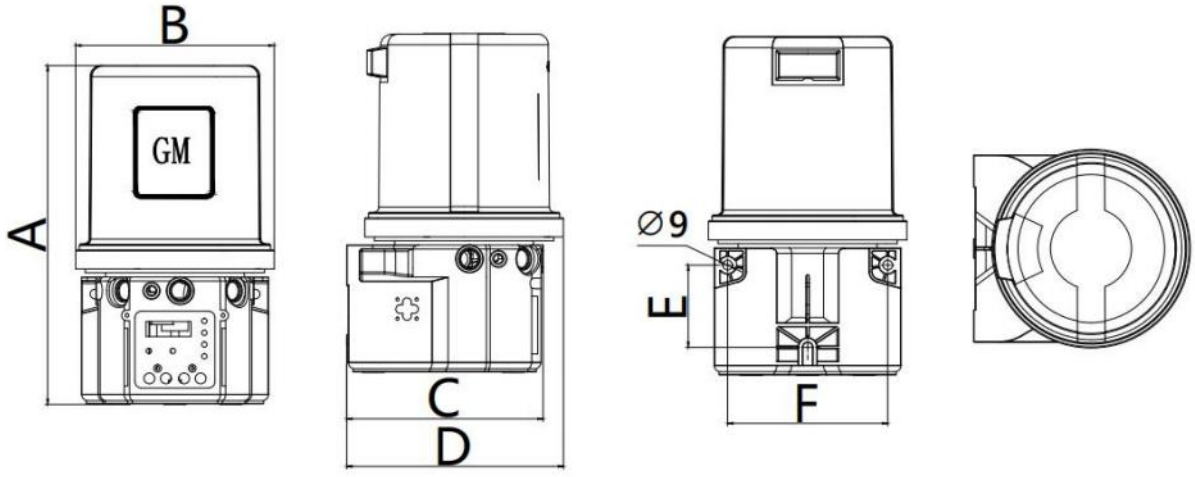
№	Part	№	Part
1	4L Pump Tank	5	Pump base
2	2L Pump Tank	6	GM Pumping Element
3	1.5L Pump Tank	7	Pump outlet assembly（With pressure gauge）
4	Control panel		

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

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℃

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Ordering information:

22- □ □ □ □ □ □ □ □

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

Grease filling connector

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

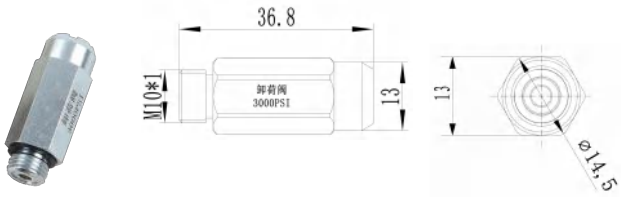
GM Pumping Element

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

Pump outlet assembly

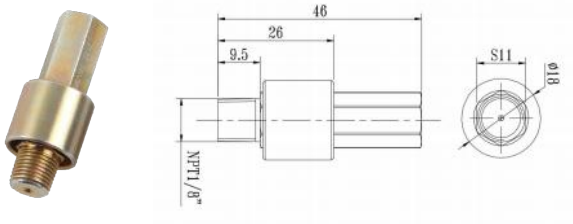
Part number	Description	Pressure	OD
80533PG	With pressure gauge	275bar/ 4000psi	6mm
80533PG-8			8mm
80533	Without pressure gauge		6mm
80533-8			8mm

Safety valve



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

Safety valve



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

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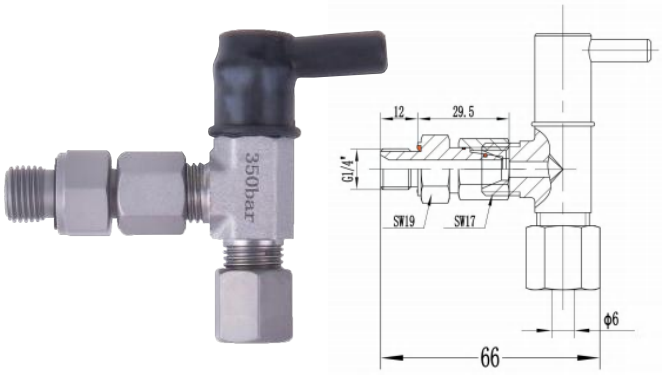
Safety valve

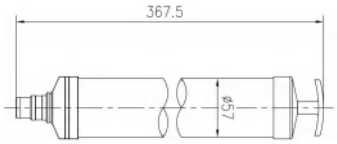


Part number	OD	Male thread	Pressure
5FJ01	φ6	G1/4	345bar/5000psi

Controller shield

Description	Part number
PC	97117

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 Mounting bracket

Description	Part number
Mounting bracket	90235

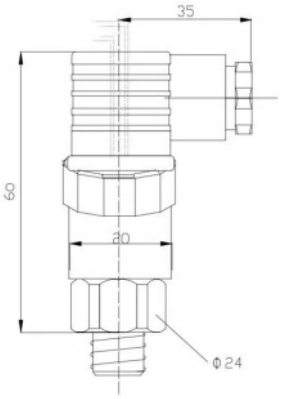
Button with green lamp

Description	Part number
12V	90212
24V	90224

Cartridge

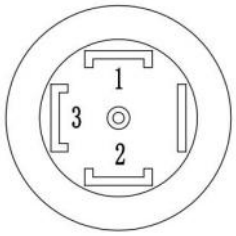
Description	Part number	Reservoir
Cartridge	CSL-J100	700CC
	CSL-C100	700CC

Pressure switch

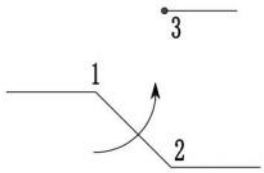


Description	Part number
Adjustable Type	91346

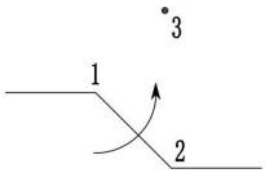
Wiring diagram



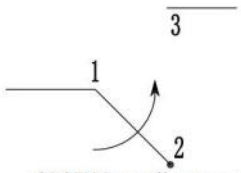
DIN plug



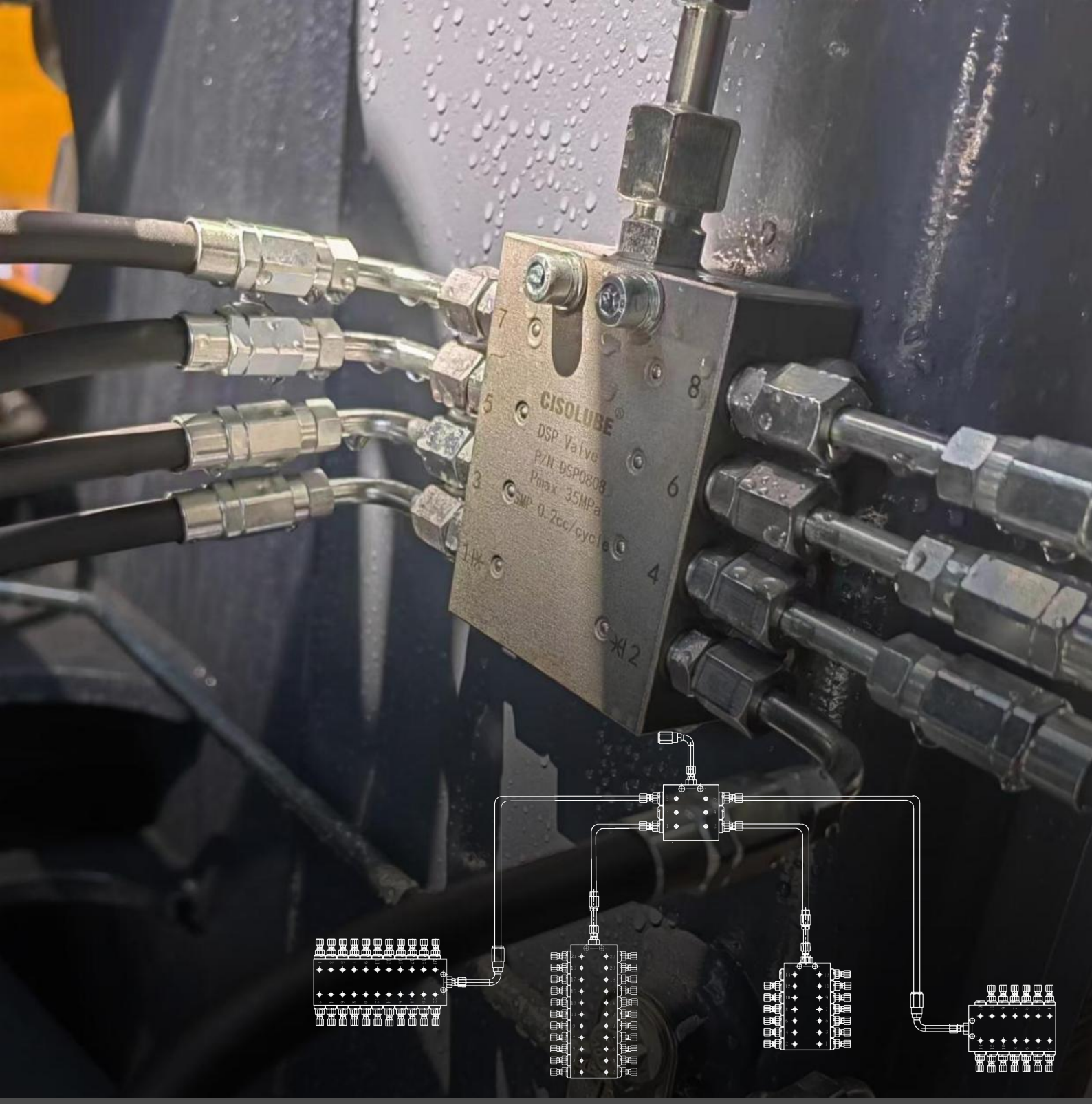
SPDT Normally open + normally closed



SPST Normally closed type



SPST Normally open type



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^3 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
- ……

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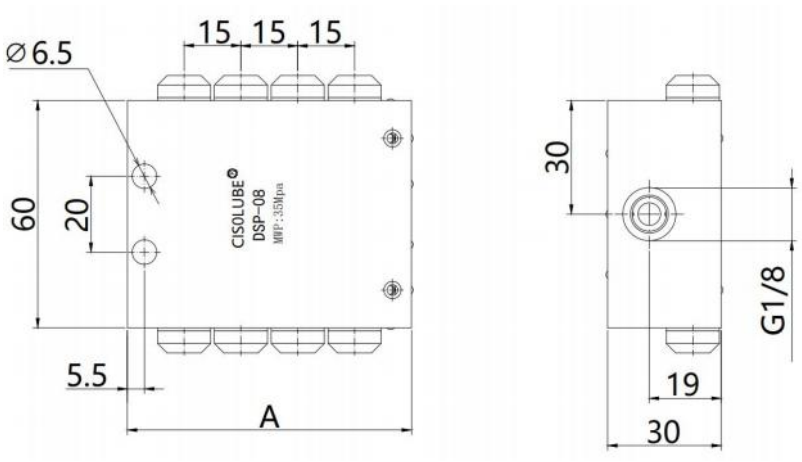
Dimensions:

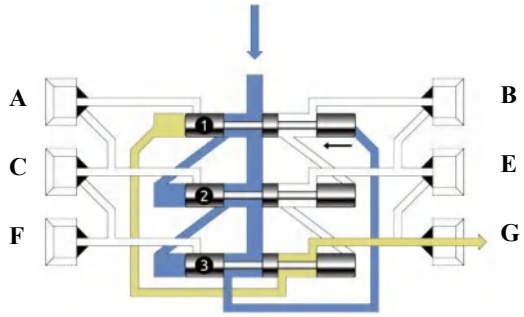


Outlets number	A
6	60
8	75
10	90
12	105
14	120
16	135
18	150
20	165
22	180

Product feature:

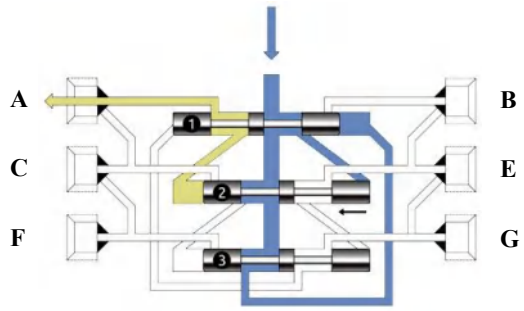
Technical parameters	
Min. Pressure	Min. 20 Bar
Max. Pressure	Max. 350 Bar
Lubricants	Oil 46 - NLGI-2#
Operating temperature	-40 °C to 200 °C
Discharge (for outlet)	0.2ml/cyc
Inlet thread	G1/8
Outlet thread	M10x1
Outlets number	6 - 22
Piston cycles	Max 200 cyc/min
Material	Carbon steel or SS

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



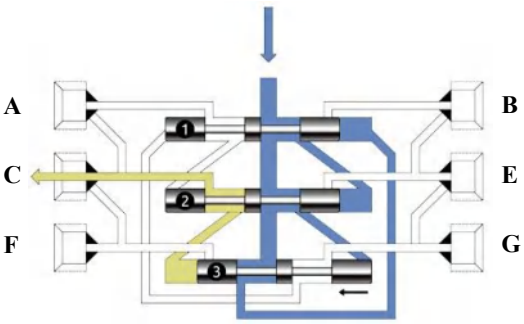
1

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



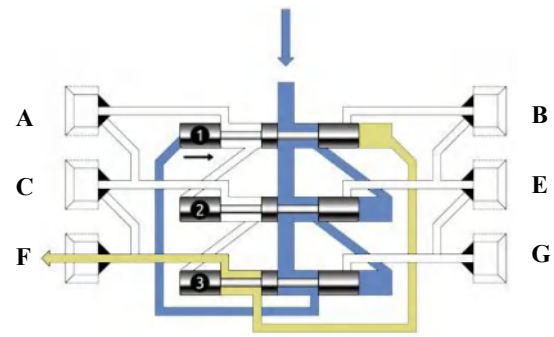
2

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



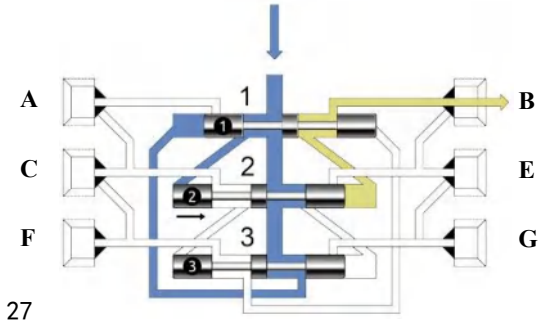
3

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



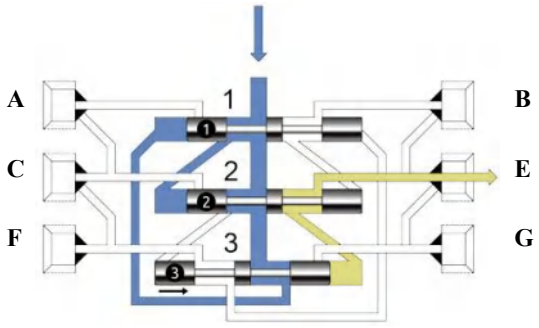
4

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



5

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



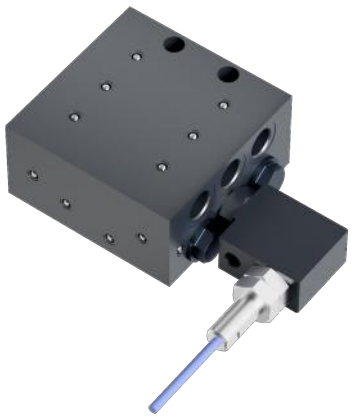
6

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

Visual pin:

The visual pin shows the piston movement, monito-ring 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：

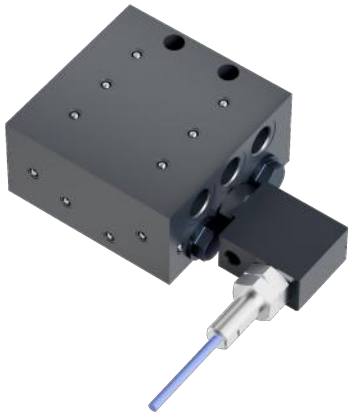
Standard

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:

DSP- □□□□□□□

A = Zinc-nickel

B= Zinc-nickel black

Outlet Number

06=6

08=8

10=10

⋮

22=22

Inlet Connector

XX= Without inlet fittings

06=Ø6mm

08=Ø8mm

Inlet Connector shape

D= Straight fitting assembly

H= 90° fitting assembly

Type

XXX= without pin

Visual Pin

Cxx = Install the outlet in xx

Inductive sensor

Exx =PNP Install the outlet in xx

Ultra sensor

KRxx = Install the outlet in xx

Plug

XD=3-20

Outlet Connetor

XX= Without outlet fittings

S6= Ø6mm Fitting with check valve

K6= Ø6mm Quick Fitting

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

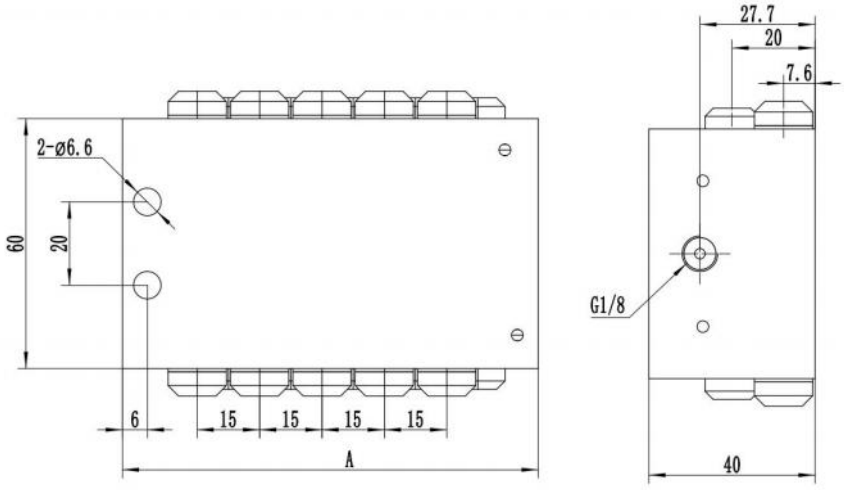
- Construction and mining
- Farm machinery
- Industrial equipment

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 ml/cyc; max 1.80 ml/cyc
Inlet port	G1/8
Outlet port	M10x1
Outlets	6 - 22
Material	Nickel-plated steel

⊙ By crossporting or closing outlets possible to reduce outlet number below given minimum Outlet #1 and #2 should never be closed

⊙ Depending on metering screw valid for a pair of opposite outlets

Dimensions (mm):



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

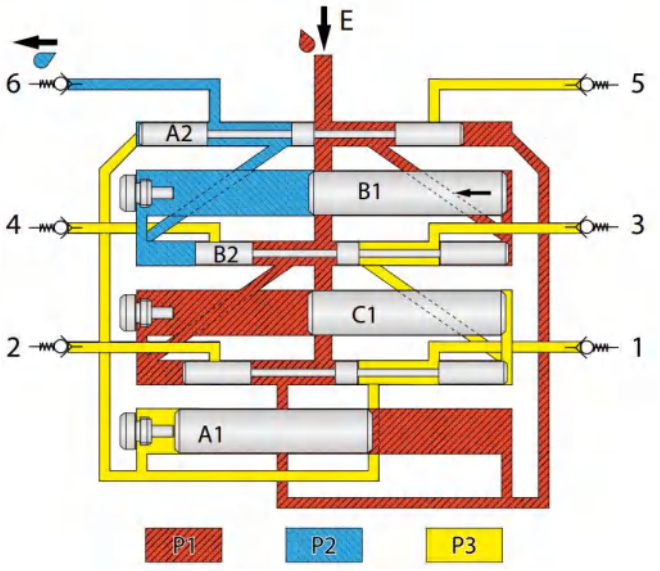
Course of the lubricant in the DSPP metering device

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

P1 = Lubricant supplied by the lubrication pump

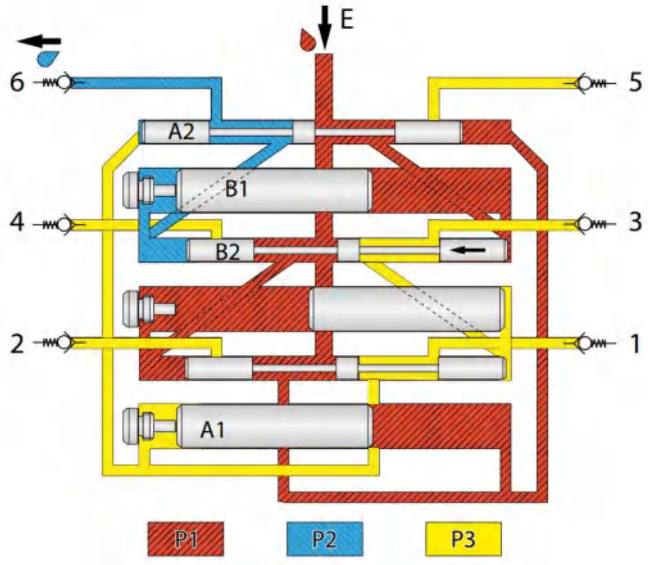
P2 = Lubricant displaced by the piston of the metering device

P3 = Lubricant not being moved



Phase 1

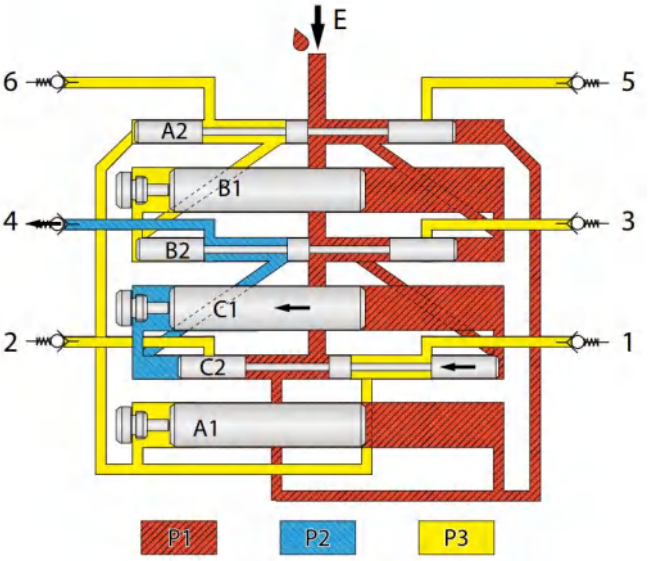
The lubricant P1 supplied by the pump flows through the inlet E into the metering device. By doing so metering piston B1 is moved into its left end position. As a consequence the corresponding lubricant volume P2 is supplied to outlet 6.



Phase 2

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

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



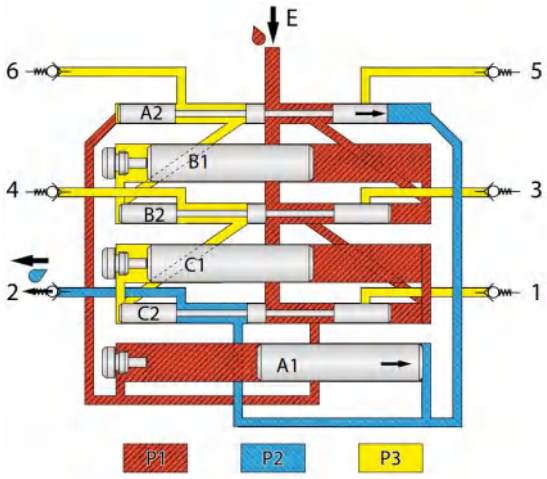
Phase 3

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

Phase 4

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

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



Phase 5

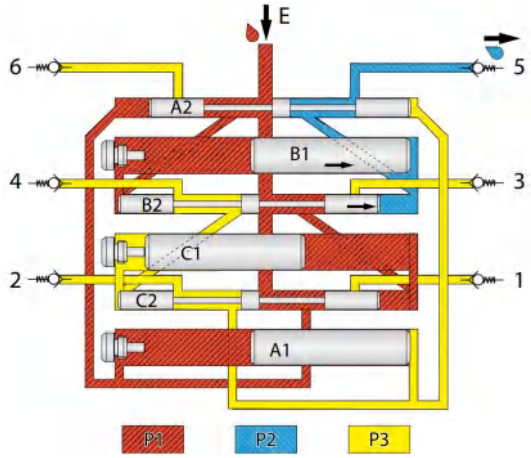
The control piston C2 has reached its left end position. Thereby it opens the connection duct to the left end of control piston A2 and metering piston A1. The pressurized lubricant P1 is now located at the left end of control piston A2 and metering piston A1.

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

Phase 6

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

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



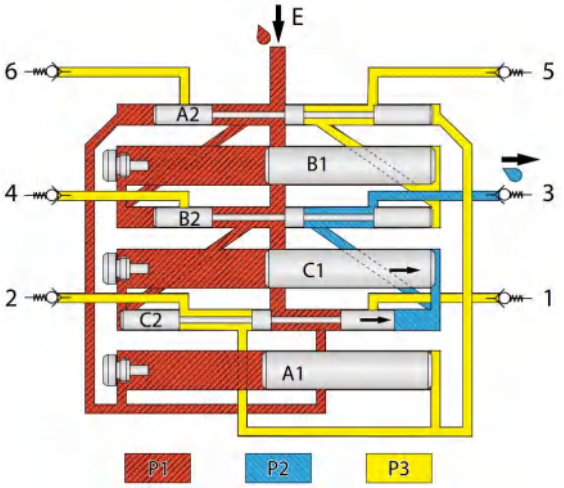
Phase 7

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

Phase 8

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

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



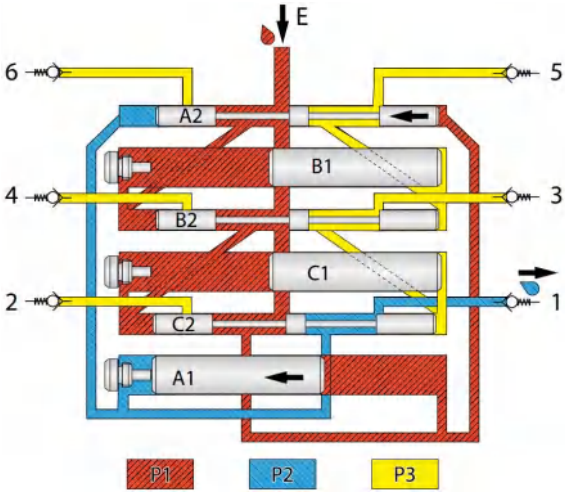
Phase 9

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

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

Phase 10

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



Phase 11

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

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

Phase 12

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

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

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

Ordering Number Without inlet and outlet fittings：

Standard

Outlets	Part number
6	35N03
8	35N04
10	35N05
12	35N06
14	35N07
16	35N08
18	35N09
20	35N10
22	35N11

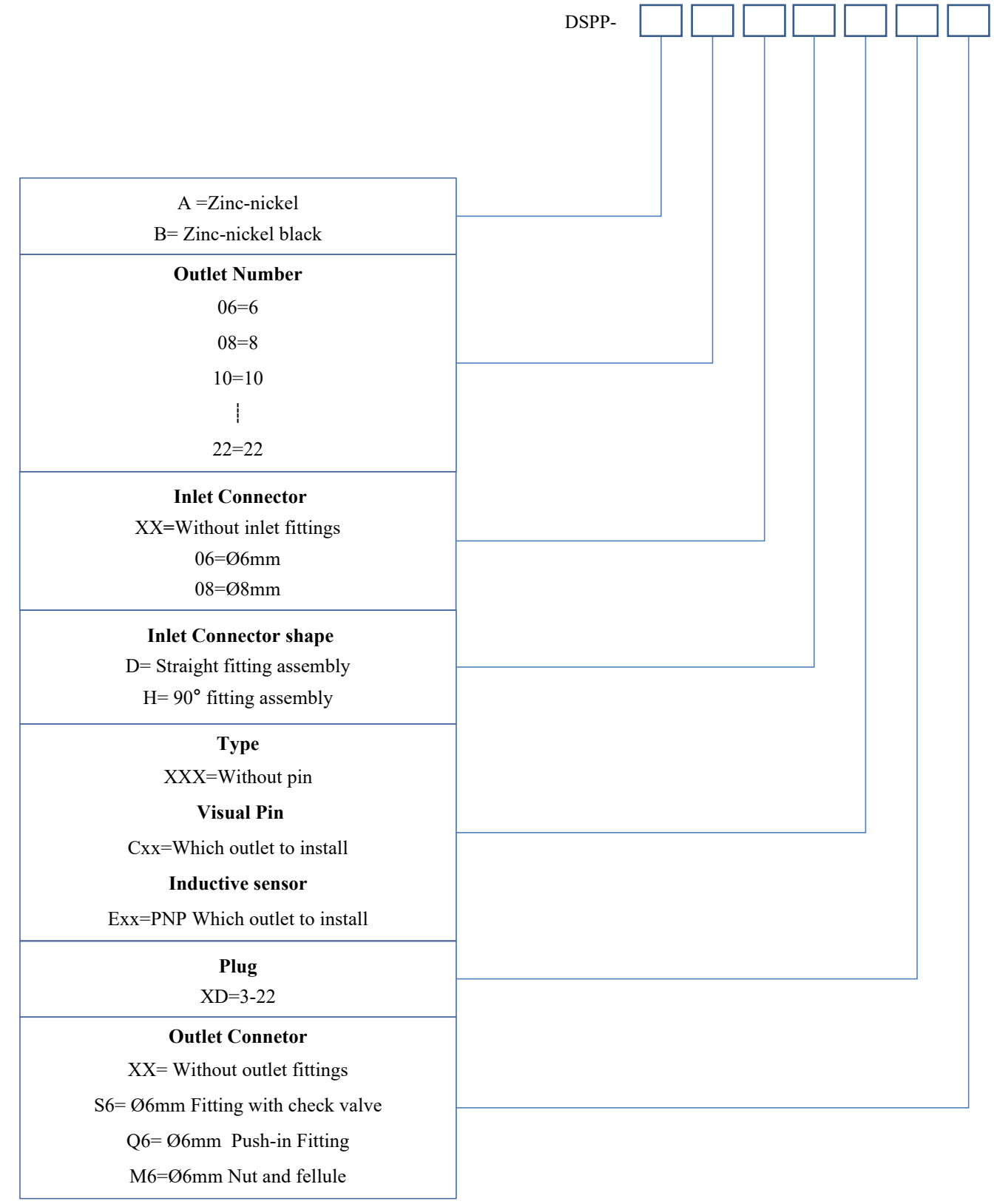
With visual pin

Outlets	Part number
6	35V03
8	35V04
10	35V05
12	35V06
14	35V07
16	35V08
18	35V09
20	35V10
22	35V11

With inductive sensor

Outlets	Part number
6	35M03
8	35M04
10	35M05
12	35M06
14	35M07
16	35M08
18	35M09
20	35M10
22	35M11

Ordering information：



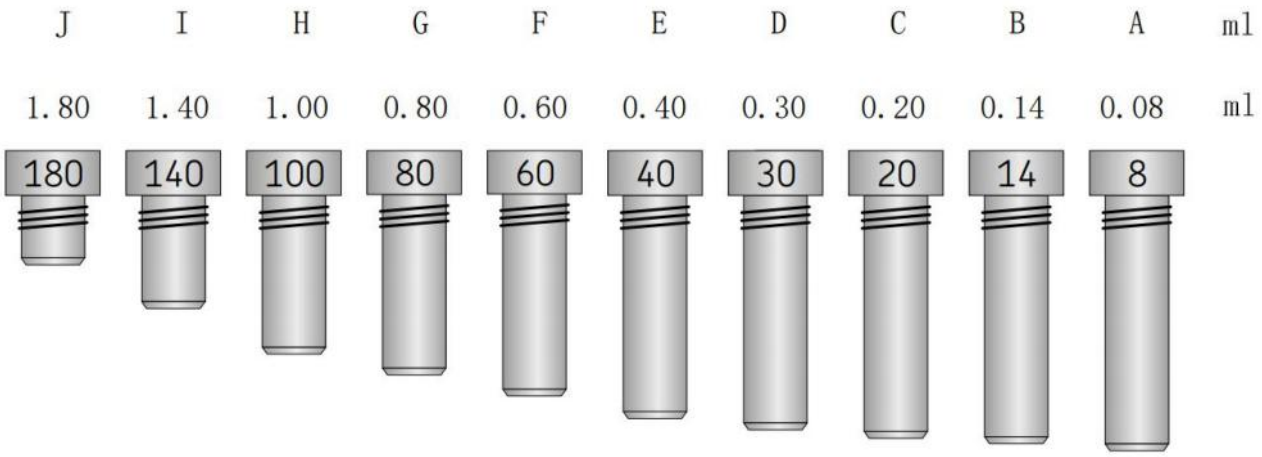
The output of the DSPP metering devices can be adapted by using different metering screws.

Unwanted oil outlets can also be closed by using plugging boltsproceed as follows:

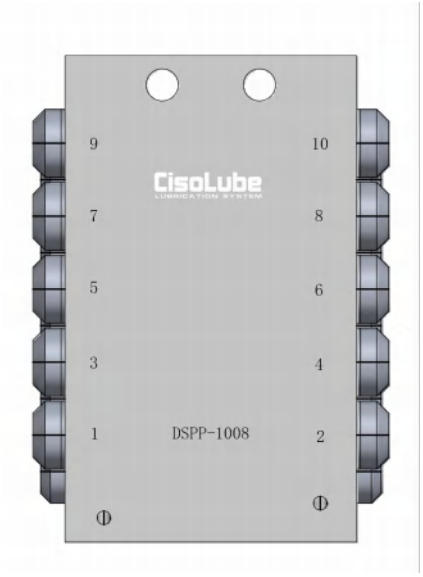
• Remove protective caps from the metering device

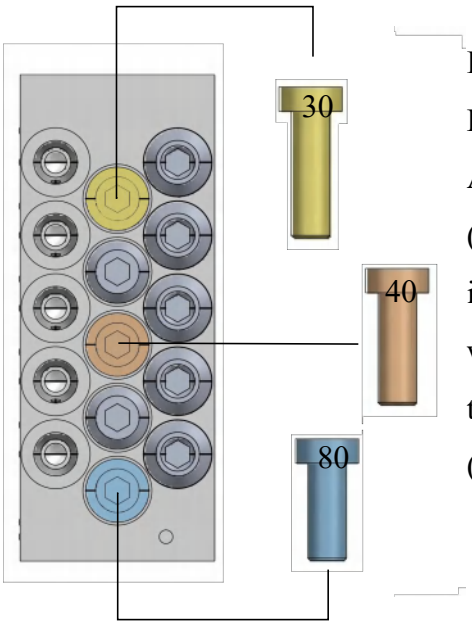
• Screw the required metering screw into the corresponding outlet

• 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.



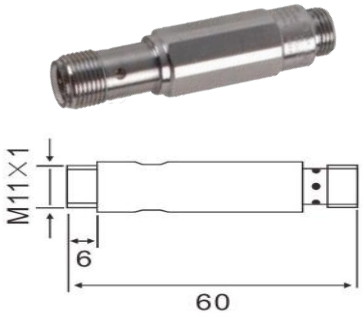


Example:

DSPP-0608xxxxxxxx-ABCxxxxxxx

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

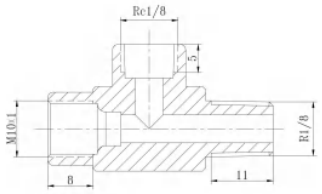
Ultra sensor:



Part number	Connecting thread	Type
124581	M12*1，4Core	PNP

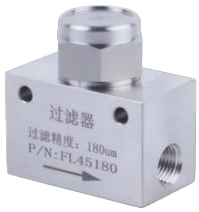
Part number	Type	Description
124582	Straight	2m
124583	Elbow	2m

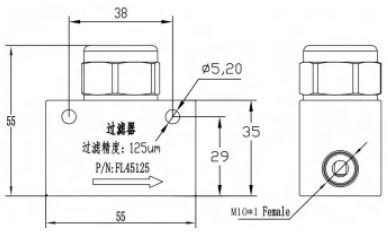
With grease nipple inlet assembly:



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

Inset filter:

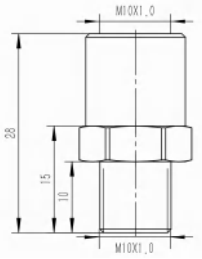




Part number	Rate	Thread F	Material
AL45180	180μm	M10*1	AL
AL45125	125μm	M10*1	

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

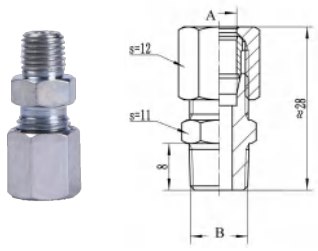
Inset filter 70μm



Part number	Thread
31F10	M10x1

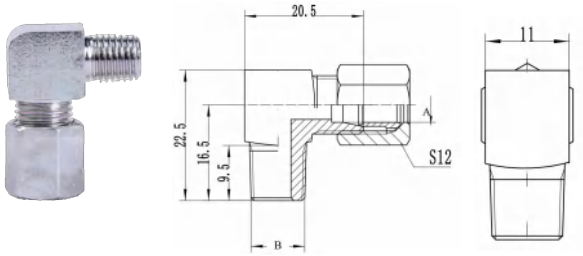
Inlet fittings:

Straight fitting assembly



Part number	A	B	Material
5DM0602	Ø6	R1/8	Nickel plated
5DM0402	Ø4	R1/8	

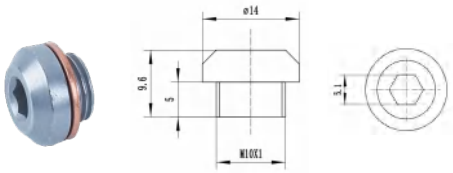
90° fitting assembly



Part number	A	B	Material
5HM0602	Ø6	R1/8	Nickel plated
5HM0402	Ø4	R1/8	

Plug:

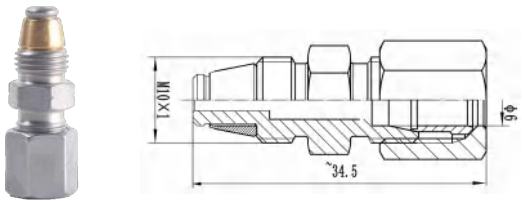
Outlet plug



Part number	OD	Material
5PG10	M10*1	Nickel plated

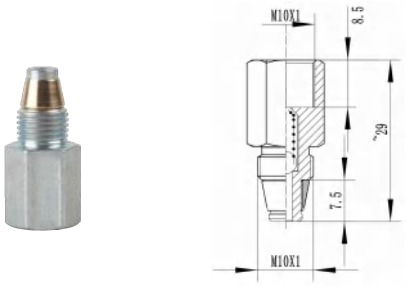
Outlet fittings:

Straight fitting with check valve



Part number	OD	Thread	Material
5CM0610	Ø6	M10*1	Nickel plated

Straight fitting with check valve



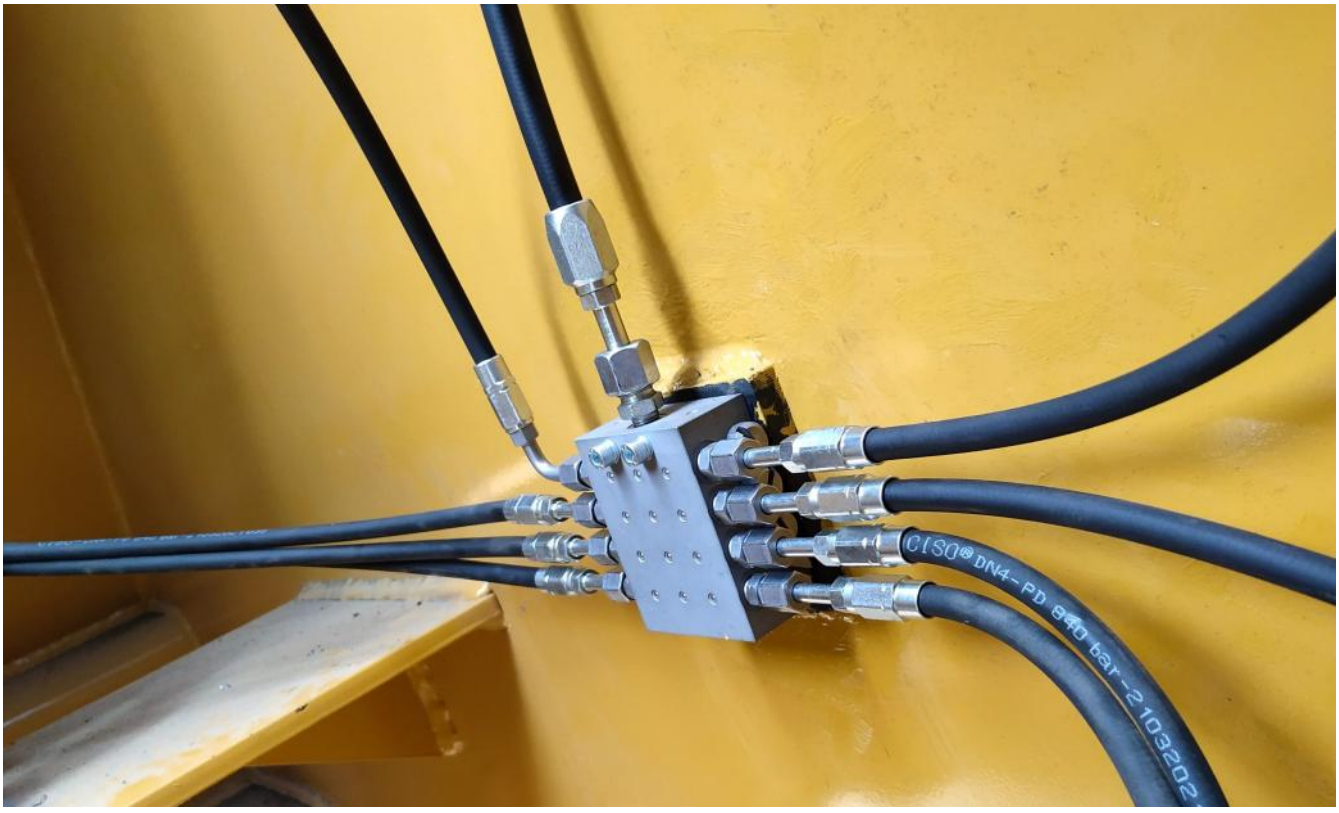
Part number	F.Thread	M.Thread	Material
5DC10	M10*1	M10*1	Nickel plated

Push-in Fittings with check valve

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

Push-in Fittings

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



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 to10 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 Trepresents 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

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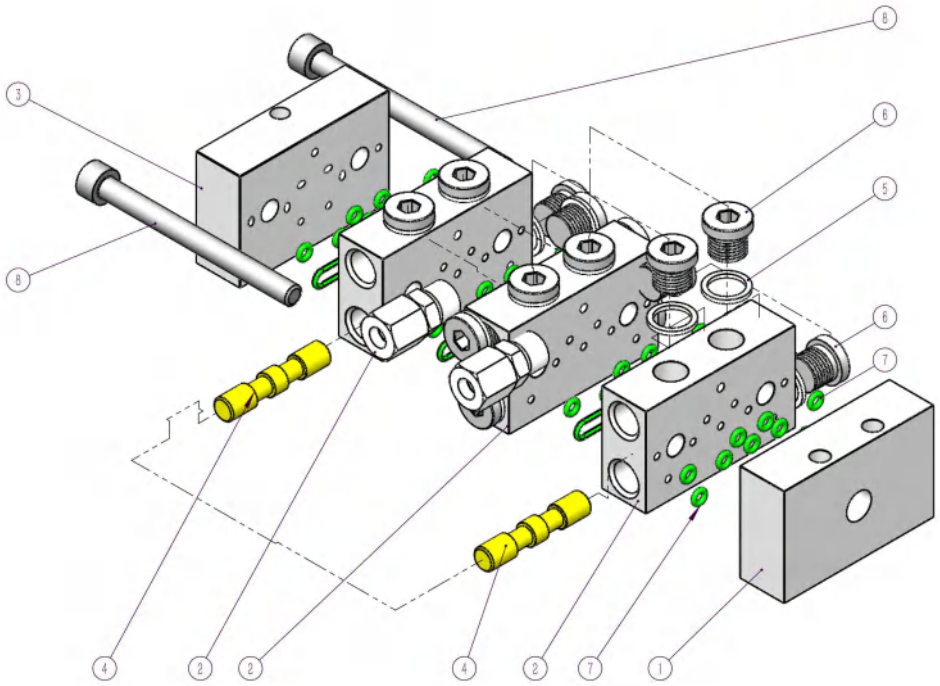
Product composition:

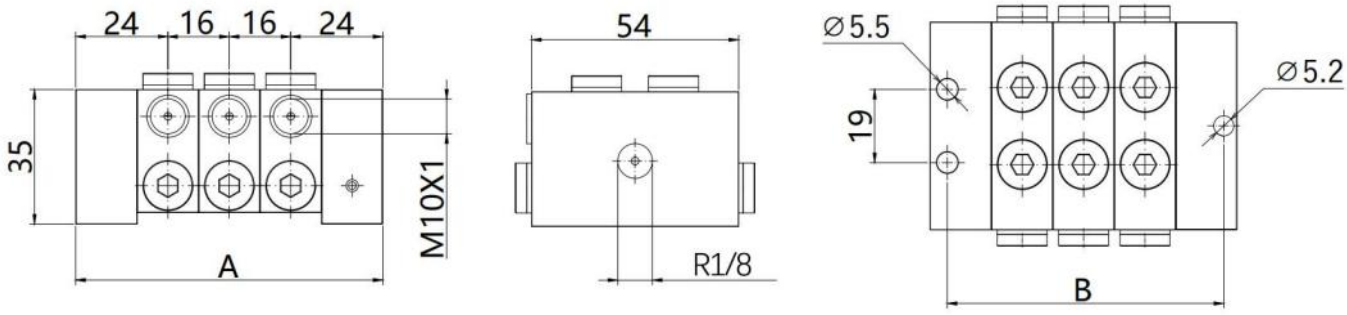


1 — First element	5 — Gasket
2 — Divider element	6 — Plug
3 — Tail element	7 — O-ring:FKM(-20℃~200℃) /NBR(-40℃~110℃)
4 — Plunger	8 — Bolt

Technical parameters

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

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

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Ordering information:

VB- □ □ □ □

Element Number

3-10

Inlet fitting shape

X= Without inlet fitting

D= Straight fitting assembly

H= 90° fitting assembly

Inlet fitting

6=Ø6

8=Ø8

Flow rate (ml)

05= 0.08

10= 0.16

15= 0.23

20= 0.32

Outlets

T= Double outlet

SL= Left single outlet

SR= Right single outlet

Visual Pin

VR= Visual pin right

VL= Visual pin left

Inductive sensor

ER=PNP Mounted on the right

EL= PNP Mounted on the left

Ultra sensor

KRR= Mounted on the right

KRL= Mounted on the left

Safety valve

M10= 10Mpa Safety valve

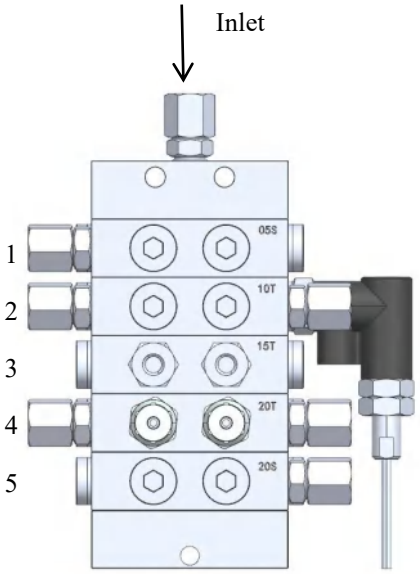
M20= 20Mpa Safety valve

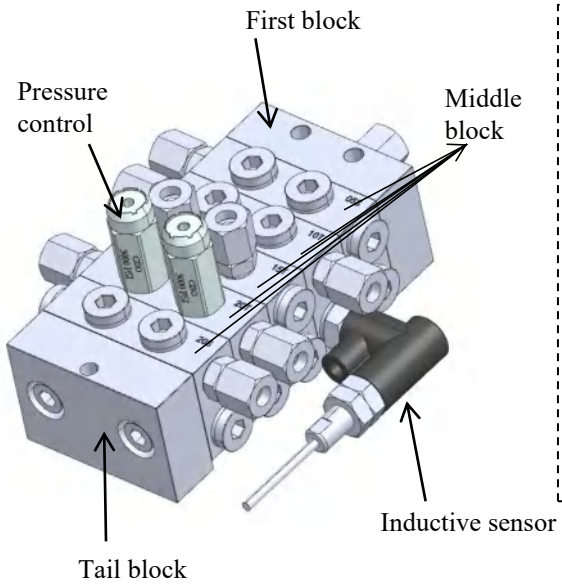
Outlet fitting

S6= Ø6mm Fitting with check valve

Q6= Ø6mm Push-in fitting

Ordering instructions：





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

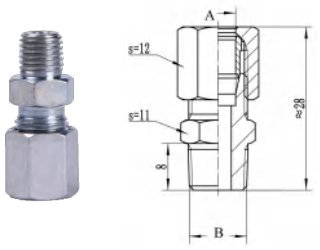
Flow rate (ml)	Outlets	Cycle control	Pressure control			Outlet fittings
			Type	Pressure (Mpa)	Location	
05	**T** Double outlet	**ER** PNP Inductive sensor Right	**M** Safety valve	10	**L** Left	**Q4** Ø4 Push-in straight
10	**SL** Single left	**EL** PNP Inductive sensor Left		20	**R** Right	**Q49**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

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

1 2 3 4 5

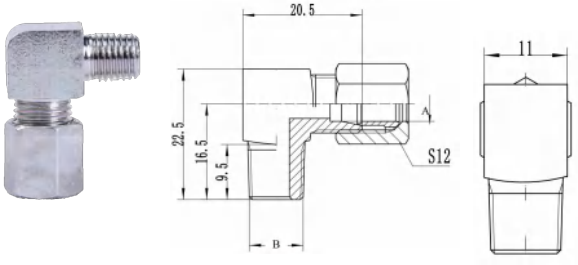
Inlet fittings:

Straight fitting assembly



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

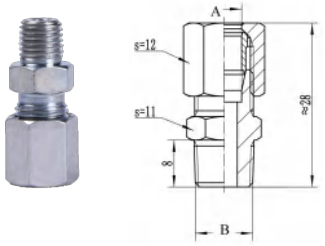
90° fitting assembly



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

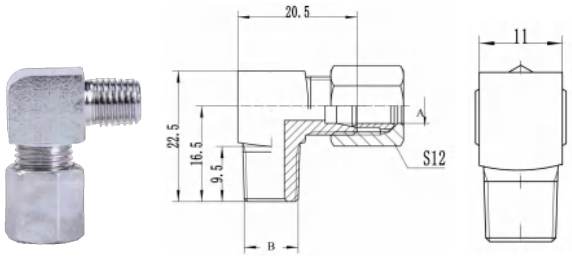
Outlet fittings:

Straight fitting assembly



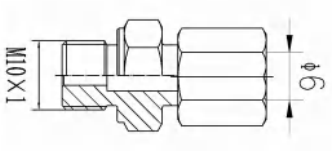
Part number	A	B	Material
5DM0410	Ø4	M10*1	Nickel plated
5DM0610	Ø6	M10*1	

Angle fitting assembly



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

Straight fitting with check valve



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

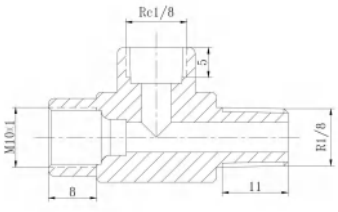
Outlet plug

Part mumber	Thread	Material
5PC10	M10*1	Zinc plated

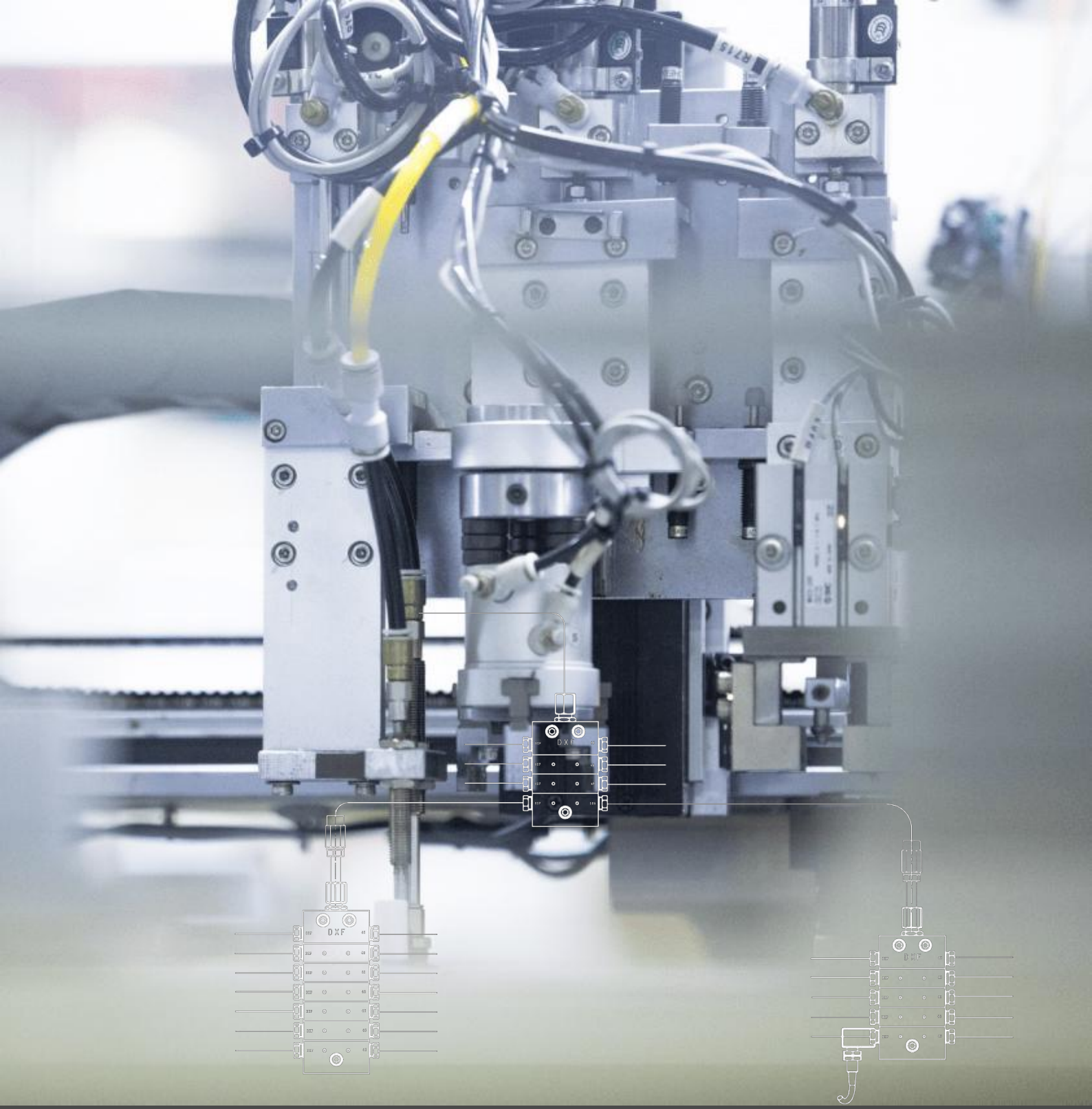
Adjustable fitting

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



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**

DXF distributor

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.

CISO'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

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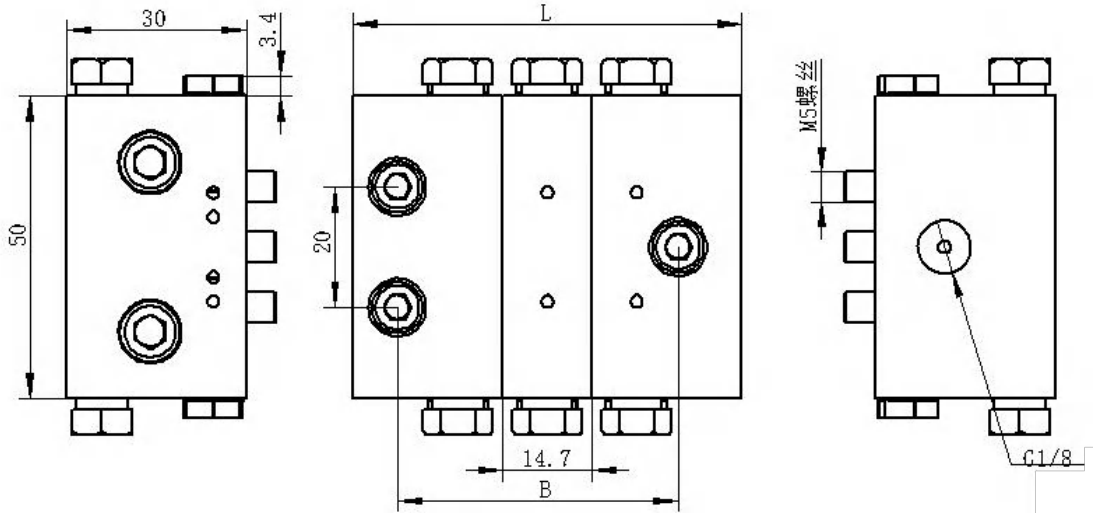
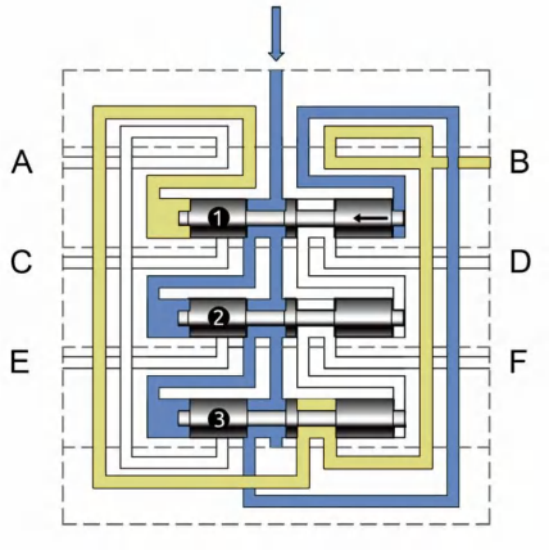
Technical parameters	
Outlets number	Max. 24
Discharge / Stroke for each outlet	0.025ml - 0.045ml - 0.075ml - 0.105ml
Max. pressure	30MPa Max.
Operating temperature	-20℃ ~ +100℃
Number of cycle	Max. 300 cyc/min
Lubricants	Oil~NLGI 2#
Inlet thread	G1/8
Outlet thread	M10*1
Coating	Zinc-nickel

Dimensions:



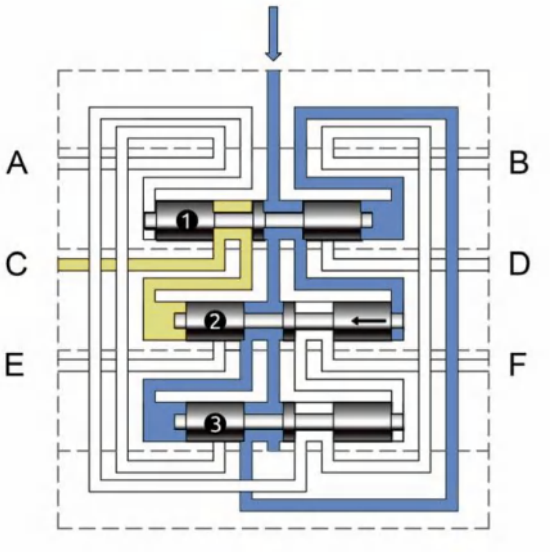
Number of work	L(mm)	B(mm)	Number of work	L(mm)	B(mm)
3	64.7	46.7	8	138.2	120.2
4	79.4	61.4	9	152.9	134.9
5	94.1	76.1	10	167.6	149.6
6	108.8	90.8	11	182.3	164.3
7	123.5	105.5	12	197	179

Operating principle



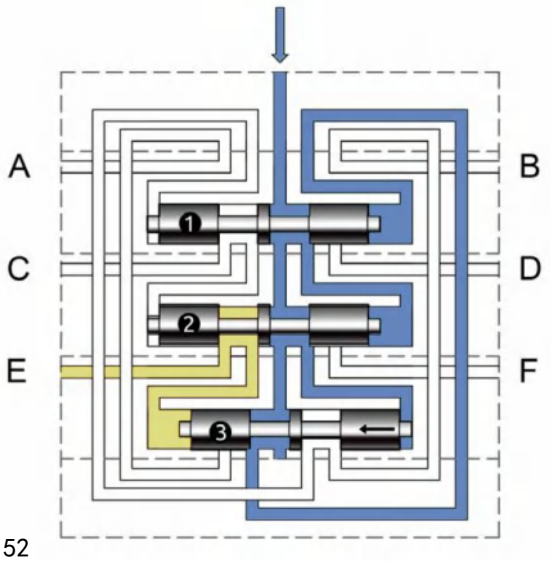
1

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



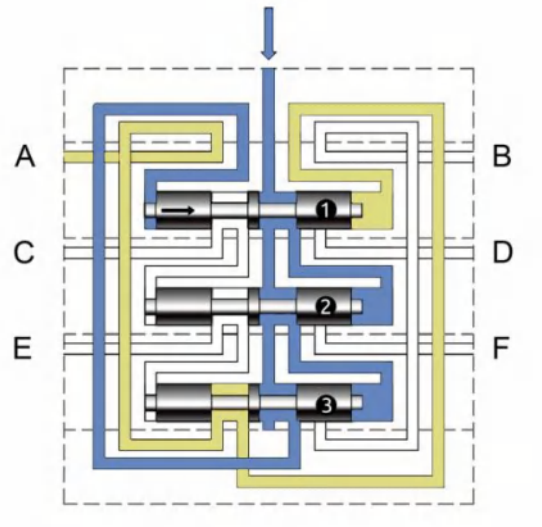
2

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



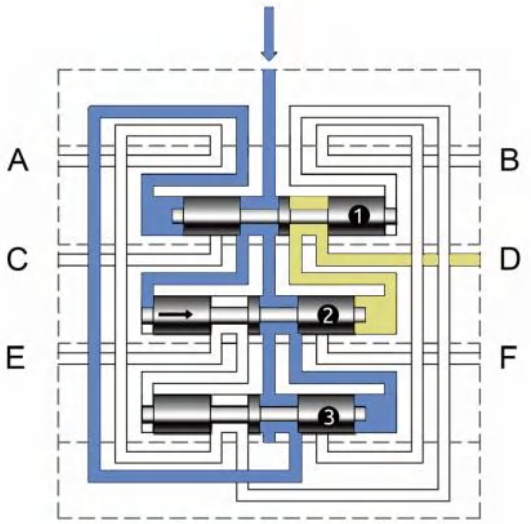
3

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



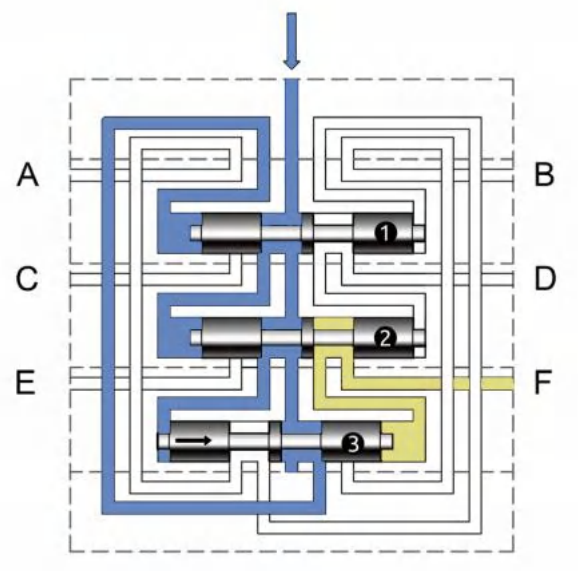
4

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



5

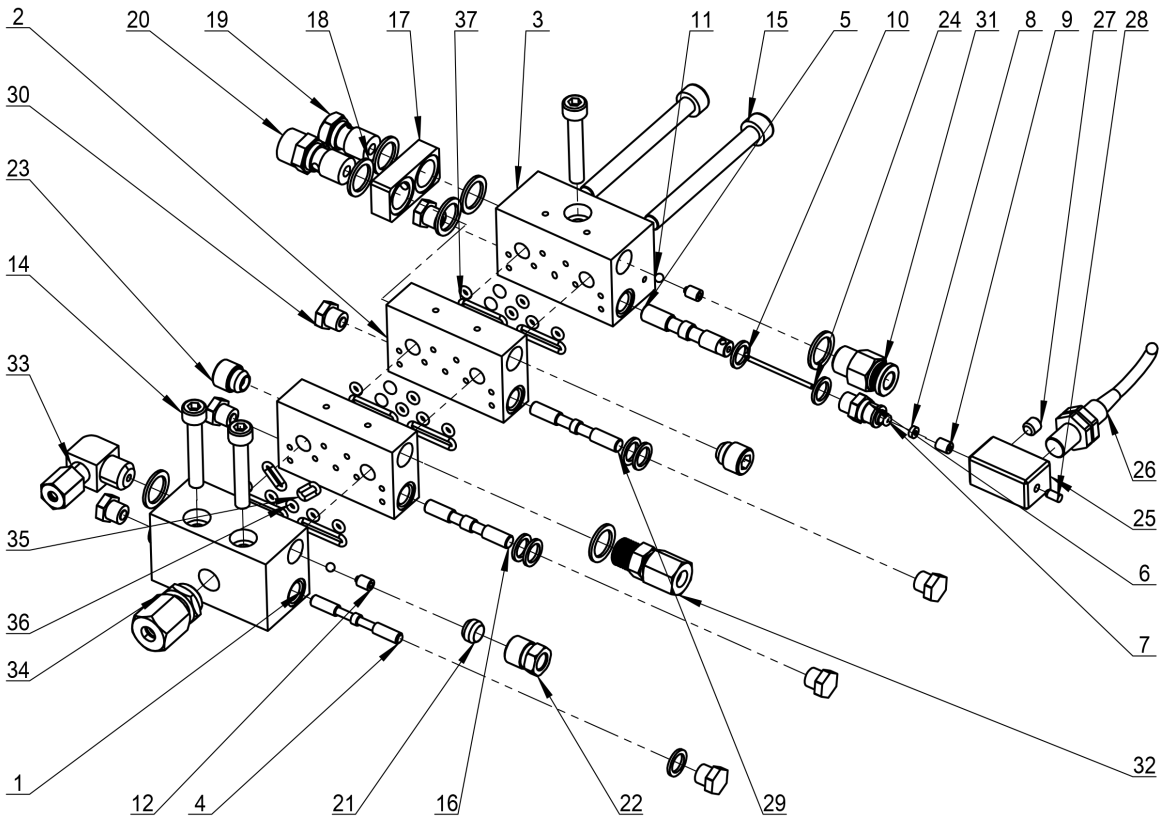
When piston 1 reaches its limit, lubricant flow pressure (blue) operates on piston 2. Lubricant volume (yellow) discharge from D.



6

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

Critical component information



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

Ordering information：

DXF - | 5 | D | 8 | |

Element Number

3-12

（Contains first and tail blocks）

Inlet fitting shape

X= Without inlet fitting

D= Straight fitting assembly

H= 90° fitting assembly

Inlet fitting

6=Ø6

8=Ø8

Flow rate (ml)

25= 0.025

45= 0.045

75= 0.075

105= 0.105

Visual Pin

VR= Visual pin right

VL= Visual pin left

Inductive sensor

ER=PNP Mounted on the right

EL=PNP Mounted on the left

Outlet fitting

XX= Without outlet fitting

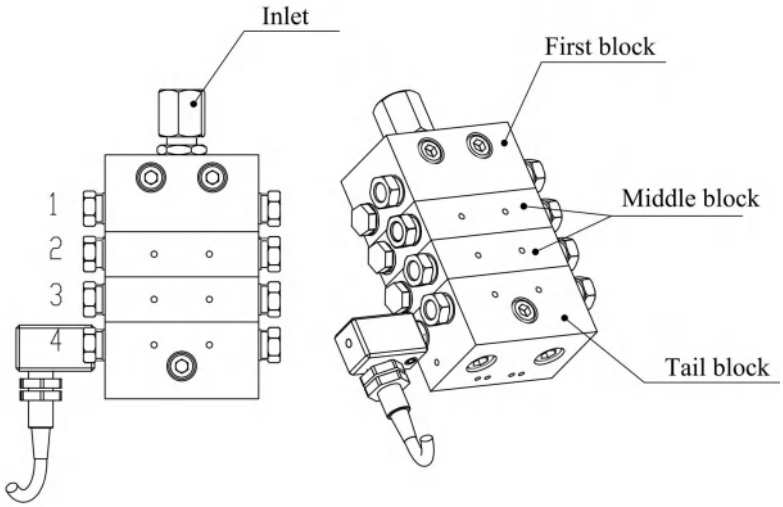
S6= Ø6mm Fitting with check valve

Q6= Ø6mm Push-in Fitting

D6= Ø6mm Ferrule fitting

M6=Ø6mm Sleeve and nut

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	Outlet oil pipe diameter
25	**BL** Bridge left	**ER** PNP Inductive sensor right	**Q4** Ø4 Push-in fitting
45	**BR** Bridge right	**EL** PNP Inductive sensor left	**Q6** Ø6 Push-in fitting
75	**BLR** Brigdge left&right	**VR** Visual right side	**D4** Ø4 Ferrule fitting
105		**VL** Visual left side	**D6** Ø6 Ferrule fitting
			S6 Ø6 Fitting with check valve
			M4 Ø4 Sleeve and nut
			M6 Ø6 Sleeve and nut

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

1 2 3 4

Standard blocks ordering information

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

With Visual Pin

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

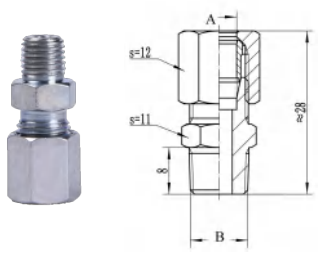
With PNP Inductive sensor

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

Tie-rods Ordering information：					
Number of work	length(mm)	Ordering information	Number of work	length(mm)	Ordering information
3	45	B103	8	115	B108
4	60	B104	9	130	B109
5	75	B105	10	145	B110
6	85	B106	11	160	B111
7	100	B107	12	175	B112

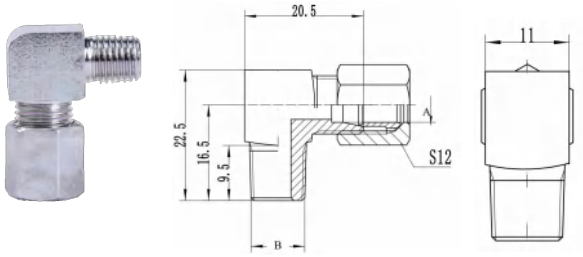
Inlet fittings：

Straight fitting assembly



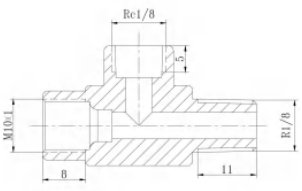
Part number	A	B	Material
5DM0802	Ø8	R1/8	Nickel plated
5DM0602	Ø6	R1/8	
5DM0402	Ø4	R1/8	

90° fitting assembly



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

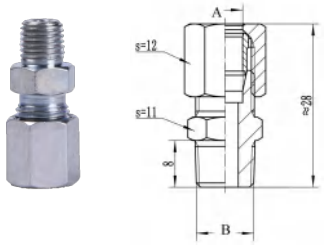
With grease nipple inlet assembly：



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

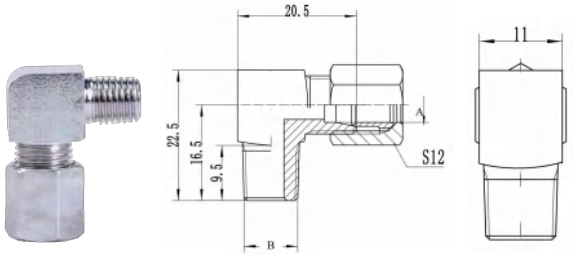
Outlet fittings:

Straight fitting assembly



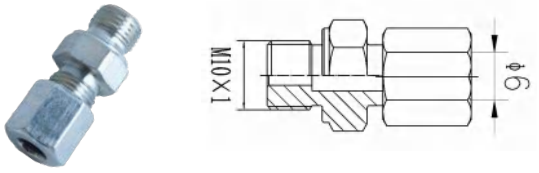
Part number	A	B	Material
5DM0410	Ø4	M10*1	Nickel plated
5DM0610	Ø6	M10*1	

90° fitting assembly



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

Straight fitting with check valve

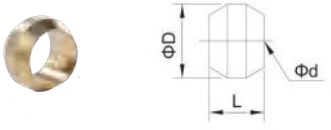


Part number	OD	Thread	Material
5VM0610	Ø6	M10*1	Zinc plated

Outlet plug

Part mumber	Thread	Material
5PG11	M10*1	Nickel plated

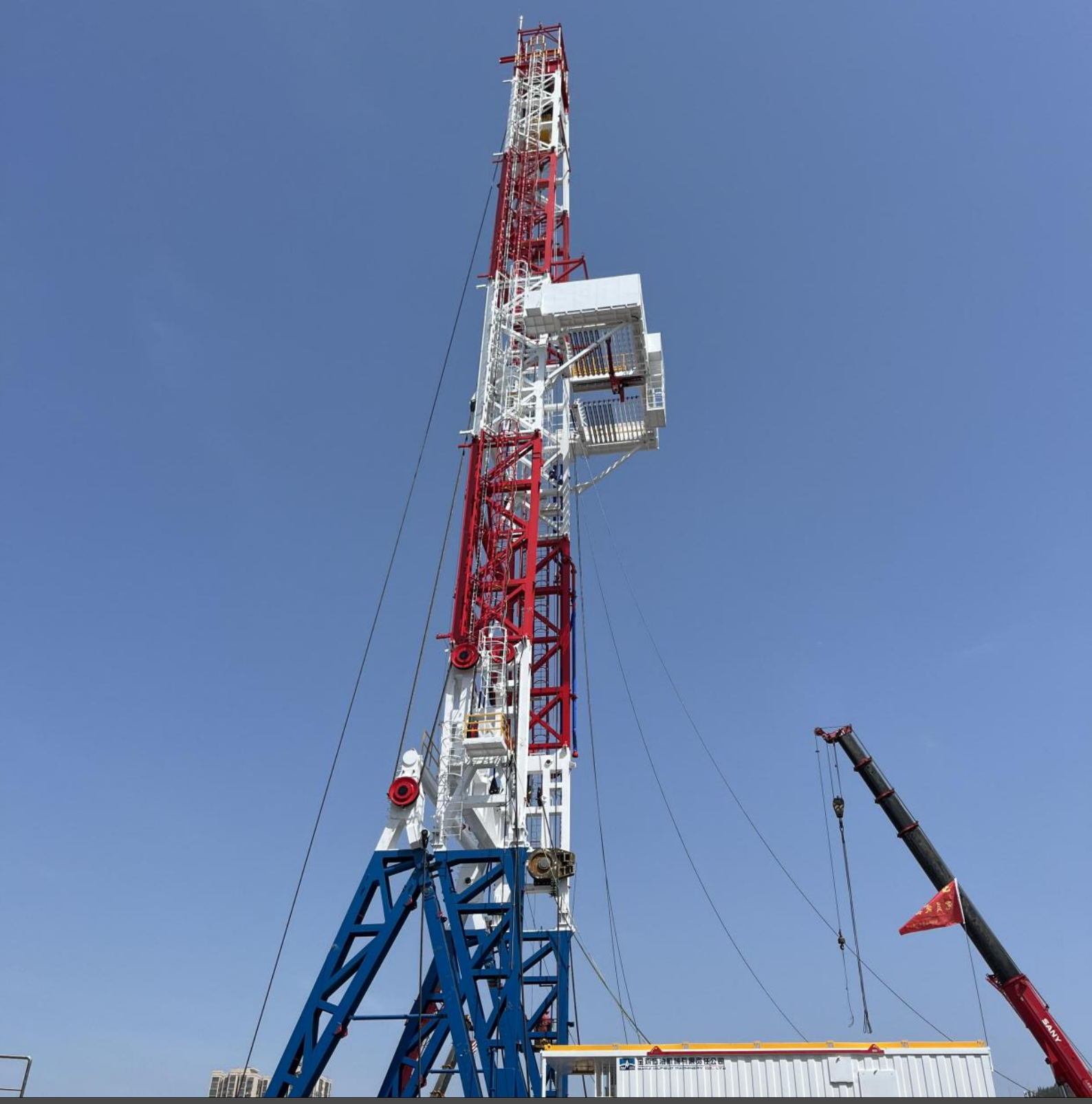
Sleeve



Part number	OD	Ød	ØD	L
3B06	6	6.1	8	5

Nut

Part number	OD	Thread
3C10	Ø6	M10*1

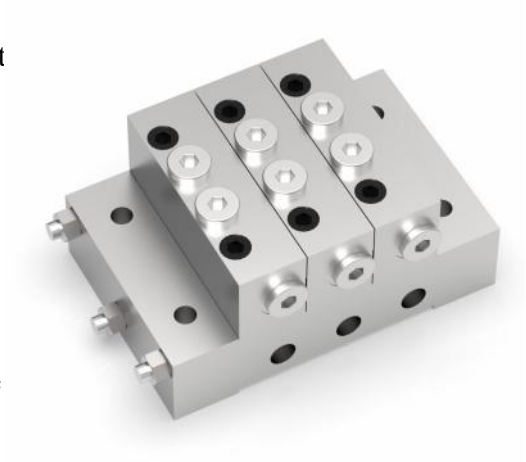


VSP

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 lubricat and is suitable for all kinds of harsh conditions, is a perfect lubricant 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

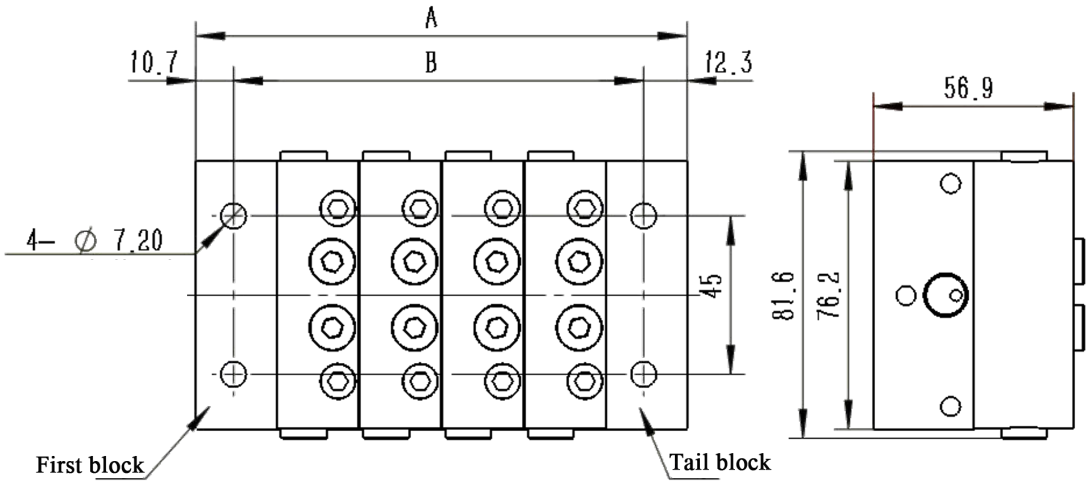
Applications

- automobile, industrial equipment
- wind power
- construction machinery

.....

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

Dimensions:



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

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

Ordering information：

VSP block model

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

Ref	Maximum export quantity	Number of Sections	Model		Dimensions (for reference only)	
			R Thread	G Thread	A	B
2/3/4/5/6	6	3	56R03	56G03	4.6in（116.8mm）	3.6in (91.4mm)
	8	4	56R04	56G04	5.0in（127.0mm）	4.5in (114.3mm)
	10	5	56R05	56G05	6.4in（162.6mm）	5.4in (137.2mm)
	12	6	56R06	56G06	7.4in（188.0mm）	6.3in (160.0mm)
	14	7	56R07	56G07	8.3in（210.8mm）	7.3in (185.4mm)
	16	8	56R08	56G08	9.2in（233.7mm）	8.2in (208.3mm)

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

Model of VSP distributor valve

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

Ref	outlet	Description	Flow rate in³ (cm³)	Model		
				Standard valve block	With circulating pin-right	With circulating pin-left
1	Single	VSP-5S	0.010(0.16)	61911	Not applicable	
		VSP-10S	0.020(0.33)	61912		
		VSP-15S	0.030(0.49)	61913		
		VSP-20S	0.040(0.66)	61914	61914RD	61914LD
		VSP-25S	0.050(0.82)	61915	61915RD	61915LD
		VSP-30S	0.060(0.98)	61916	61916RD	61916LD
		VSP-35S	0.070(1.15)	61917	61917RD	61917LD
		VSP-40S	0.080(1.31)	61918	61918RD	61918LD
	Twins	VSP-5T	0.005(0.08)	61919	Not applicable	
		VSP-10T	0.010(0.16)	61920		
		VSP-15T	0.015(0.26)	61921		
		VSP-20T	0.020(0.33)	61922	61922RD	61922LD
		VSP-25T	0.025(0.41)	61923	61923RD	61923LD
		VSP-30T	0.030(0.49)	61924	61924RD	61924LD
		VSP-35T	0.035(0.57)	61925	61925RD	61925LD
		VSP-40T	0.040(0.66)	61926	61926RD	61926LD

Ordering information:

VSP- □ □ □ □ □ □

Element Number

3-11

Flow rate (cm³)

Single	*Twins*
5S= 0.16	5T= 0.08
10S= 0.33	10T= 0.16
15S= 0.49	15T= 0.26
20S= 0.66	20T= 0.33
25S= 0.82	25T= 0.41
30S= 0.98	30T= 0.49
35S= 1.15	35T= 0.57
40S= 1.31	40T= 0.66

Working valve block outlets

T= Twins outlets

SL= Left single outlet

SR= Right single outlet

Inlet Connetor

X= Without inlet fitting

6=Ø6 8=Ø8

10=Ø10 12=Ø12

Outlet Connetor

XX= Without outlet fitting

D6= Ø6mm Ferrule fitting

Q6= Ø6mm Push-in Fitting

D8= Ø8mm Ferrule fitting

Q8= Ø8mm Push-in Fitting

Type

XX = No settings

Cycle Control

RD = With circulating pin-right (5, 10, 15 N/A)

LD = With circulating pin-left (5, 10, 15 N/A)

Proximity sensor

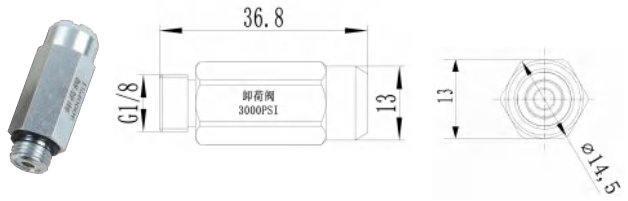
ULP= PNP Proximity sensor /Left

URP= PNP Proximity sensor /Right

Ultra sensor

W= Ultra sensor

Safety valve



Part number	Pressure	Male thread
5FI05-1	207bar/3000psi	G1/8

Cycle indicator

Part number	Male thread
152365	7/16-20UNF

Outlet plug

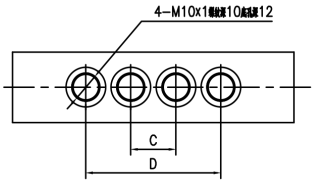
Part mumber	Thread	Material
5PG12	G1/8	Nickel plated

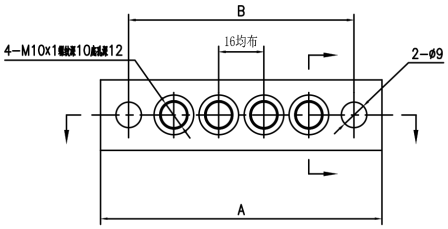
CisoLube
LUBRICATION SYSTEM

VSD

distributor block

VSD distributor Block



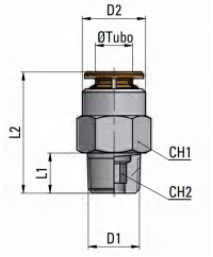


Specifications and technical parameters

Part number	Outlet Thread	Outlets	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



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

Straight fitting assembly

Part number	OD	Thread	Material
5DM0410	Ø4	M10*1	Zinc-nickel plated
5DM0610	Ø6	M10*1	

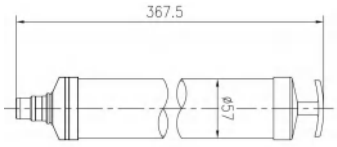
Grease Nipples

Part number	Thread	Material
3NP10	M10*1	Nickel plated

CisoLube
LUBRICATION SYSTEM

SIMPLE SOLUTIONS to PRECISE LUBRICATION

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
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

Electric lubrication pump accessories:

Pump outlet assembly

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

Grease filling connector

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

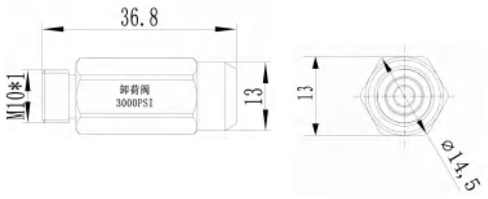
GT Pumping Element

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

GM Pumping Element

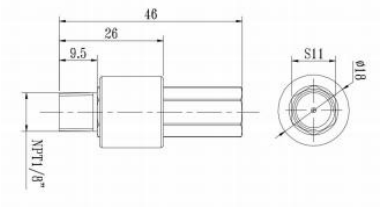
Part number	OD	Rated flow
88535	5mm	P5; 3.3ml/min
88536	6mm	P6; 4ml/min

Safety valve



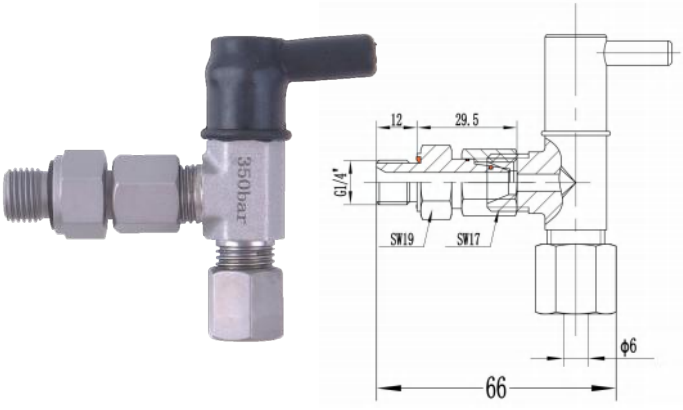
Part number	Pressure	Male thread
5FI05	207bar/3000psi	M10*1

Safety valve



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

Safety valve



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

Controller shield

Description	Part number	Type
PC	97116	GT
PC	97117	GM

Mounting bracket

Description	Part number	Type
Mounting bracket	90234	GT
	90235	GM

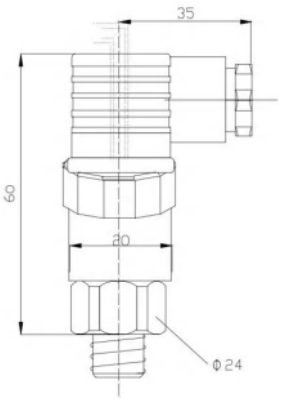
Button with green lamp

Description	Part number
12V	90212
24V	90224

Cartridge

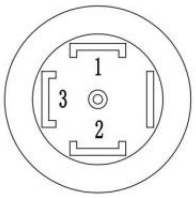
Description	Part number	Reservoir
Cartridge	CSL-J100	700CC
	CSL-C100	700CC

Pressure switch

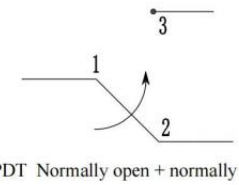


Description	Part number
Adjustable Type	91346

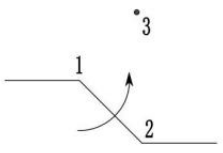
Wiring diagram



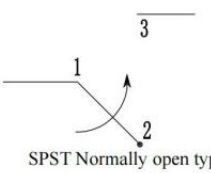
DIN plug



SPDT Normally open + normally closed

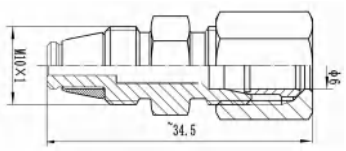


SPST Normally closed type



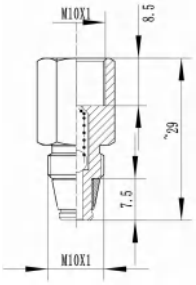
SPST Normally open type

Straight fitting with check valve



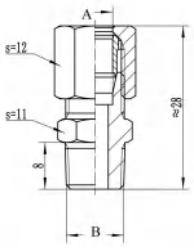
Part number	OD	Thread	Material
5CM0610	Ø6	M10*1	zinc-nickel、brass

Straight fitting with check valve



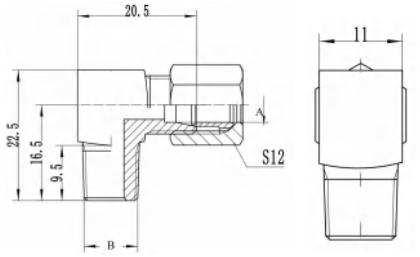
Part number	F.Thread	M.Thread	Material
5DC10	M10*1	M10*1	zinc-nickel、brass

Straight fitting assembly



Part number	A	B	Material
5DM0602	Ø6	R1/8	zinc-nickel
5DM0610	Ø6	M10*1	
5DM0608	Ø6	M8*1	
5DM0606	Ø6	M6*1	
5DM0402	Ø4	R1/8	
5DM0410	Ø4	M10*1	
5DM0408	Ø4	M8*1	
5DM0406	Ø4	M6*1	

90° fitting assembly



Part number	A	B	Material
5HM0602	Ø6	R1/8	zinc-nickel
5HM0610	Ø6	M10*1	
5HM0608	Ø6	M8*1	
5HM0606	Ø6	M6*1	
5HM0402	Ø4	R1/8	
5HM0410	Ø4	M10*1	
5HM0408	Ø4	M8*1	
5HM0406	Ø4	M6*1	

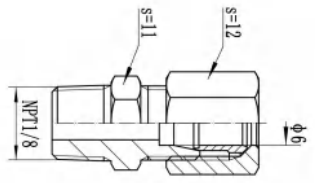
Push-in Fittings with check valve

Part number	OD	Thread	Material
FP1104M10	Ø4	M10*1	zinc-nickel、brass
FP1106M10	Ø6	M10*1	

Push-in Fittings

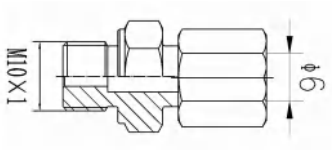
Part number	OD	Thread	Material
HPQ1106M10	Ø6	M10*1	zinc-nickel、brass

Straight fitting assembly



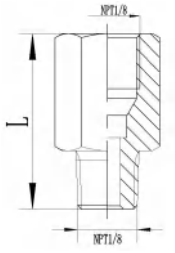
Part number	OD	Thread	Material
5PM0602	Ø6	NPT1/8	Zinc-nickel plated steel

Straight fitting with check valve



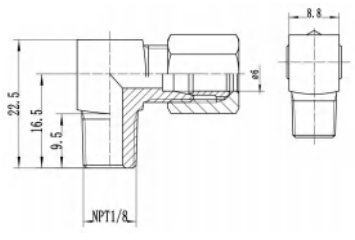
Part number	OD	Thread	Material
5VM0610	Ø6	M10*1	Zinc-nickel plated steel

Straight fitting



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

90° fitting assembly



Part number	OD	Thread	Material
5NM0602	Ø6	NPT1/8	Zinc-nickel plated steel

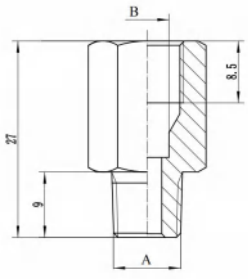
Straight fitting

Part number	OD	Thread F	Material
5SF0610	Ø6	M10*1	Zinc plated

Adjustable fitting

Part number	OD	Thread M
5B0610	Ø6	M10*1

Straight-through fitting



Part number	Thread M	Thread F	Material
5G0210	R1/8	M10*1	Zinc-nickel plated steel
5G0808	M8*1	M8*1	
5G0404	R1/4	R1/4	
5G1010	M10*1	M10*1	

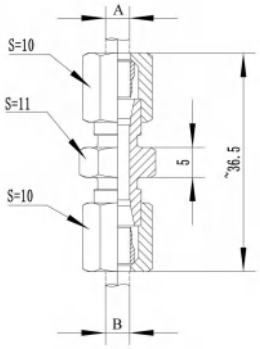
BANJO

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

BANJO with grease nipple inlet assembly:

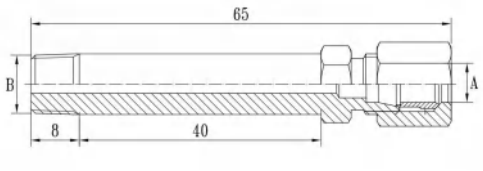
Part number	Thread M
31M10	M10x1
31M18	G1/8

Straight tube-to-tube connectors



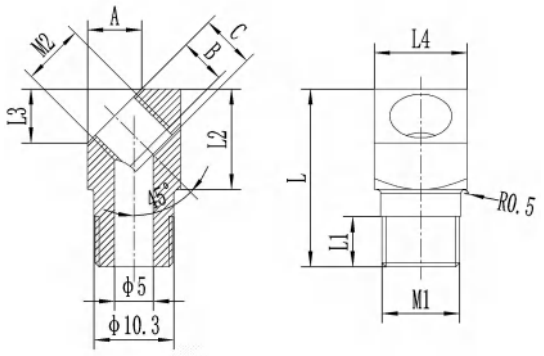
Part number	A	B	Material
5D0404	Ø4	Ø4	Zinc plated
5D0406	Ø4	Ø6	
5D0606	Ø6	Ø6	
5D0608	Ø6	Ø8	
5D0808	Ø8	Ø8	

Extension fitting assembly



Part number	A	B	Material
5KM0602	Ø6	R1/8	Zinc-nickel plated
5KM0610	Ø6	M10*1	
5KM0608	Ø6	M8*1	
5KM0606	Ø6	M6*1	
5KM0402	Ø4	R1/8	
5KM0410	Ø4	M10*1	
5KM0408	Ø4	M8*1	
5KM0406	Ø4	M6*1	

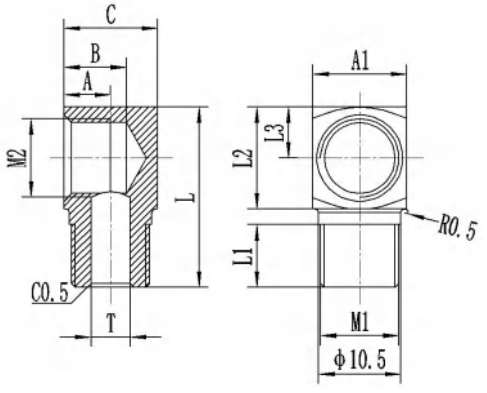
Ellbow Connector 45°



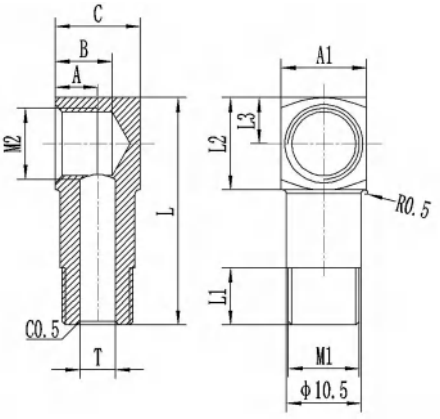
Part mumber	M1	M2	L	L1	L2	L3	L4	A	B	C
5EM0808	ZM8*1	M8*1	23	6.5	13	7	12	7	6	7
5EM0410	ZM10*1	M8*1	23	6.5	13	7	12	7	6	7
5EM1010	ZM10*1	M10*1	23	6.5	13	7	12	7	6	7
5EM0202	ZG1/8	ZG1/8	23	6.5	13	7	12	7	6	7
5EM0404	ZG1/4	ZG1/4	33	6.5	18	7	12	7	6	7

Angle Connector 90°

9GM10

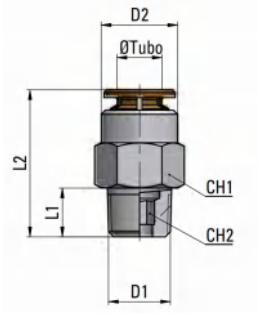


9GM10-Z



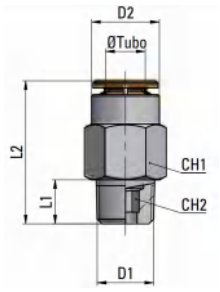
Part mumber	M1	M2	L	L1	L2	L3	A	B	C	A1
9GM0808	ZM8*1	M8*1	23	8	13	6.5	6	8	12	12
9GM1008	ZM10*1	M8*1	23	8	13	6.5	6	8	12	12
9GM10	ZM10*1	M10*1	23	8	13	6.5	6	8	12	12
9GM10-Z	ZM10*1	M10*1	32	8	13	6.5	6	8	12	12
9GM0202	ZG1/8	ZG1/8	23	8	13	6.5	6	8	12	12
9GM0404	ZG1/4	ZG1/4	33	8	18	6.5	6	8	12	17

MP11 Taper Straight,Male 10Mpa



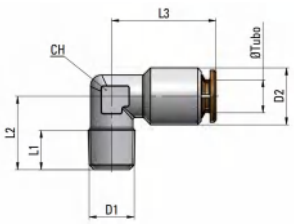
Part mumber	OD	D1	D2	L1	L2
MP110418	Ø4	R1/8	9	7.5	18.5
MP1104M6	Ø4	M6*1.0	9	8	23
MP1104M8	Ø4	M8*1.0	9	8	20
MP1104M10	Ø4	M10*1.0	9	8	20
MP110618	Ø6	R1/8	12	7.5	21.5
MP1106M6	Ø6	M6*1.0	12	8	25.5
MP1106M8	Ø6	M8*1.0	12	8	25.5
MP1106M10	Ø6	M10*1.0	12	8	22

HP11 Taper Straight,Male 25Mpa



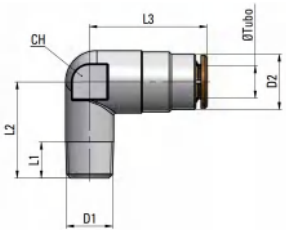
Part mumber	OD	D1	D2	L1	L2
HP110418	Ø4	R1/8	9.5	7.5	21
HP1104M6	Ø4	M6*1.0	9.5	8	25
HP1104M8	Ø4	M8*1.0	9.5	8	25
HP1104M10	Ø4	M10*1.0	9.5	8	22.5
HP110618	Ø6	R1/8	11.5	7.5	24
HP1106M6	Ø6	M6*1.0	11.5	8	28
HP1106M8	Ø6	M8*1.0	11.5	8	28
HP1106M10	Ø6	M10*1.0	11.5	8	24.5

MP14 - Taper Elbow Fitting,Male 10Mpa



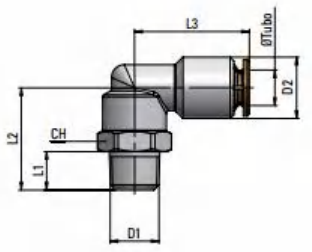
Part mumber	OD	D1	D2	L1	L2
MP140418	Ø4	R1/8	9	7.5	15.5
MP1404M6	Ø4	M6*1.0	9	8	17
MP1404M8	Ø4	M8*1.0	9	8	17
MP1404M10	Ø4	M10*1.0	9	8	18
MP140618	Ø6	R1/8	12	7.5	15.5
MP1406M6	Ø6	M6*1.0	12	8	17
MP1406M8	Ø6	M8*1.0	12	8	17
MP1406M10	Ø6	M10*1.0	12	8	18

HP14 - Taper Elbow Fitting,Male 25Mpa



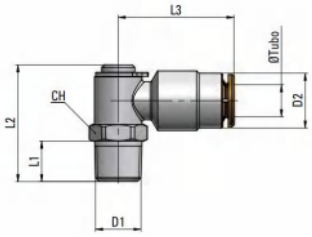
Part mumber	OD	D1	D2	L1	L2
HP140418	Ø4	R1/8	9.5	7.5	17
HP1404M6	Ø4	M6*1.0	9.5	8	17
HP1404M8	Ø4	M8*1.0	9.5	8	17
HP1404M10	Ø4	M10*1.0	9.5	8	18
HP140618	Ø6	R1/8	11.5	7.5	20
HP1406M6	Ø6	M6*1.0	11.5	8	20
HP1406M8	Ø6	M8*1.0	11.5	8	20
HP1406M10	Ø6	M10*1.0	11.5	8	21

MP15 - Taper Elbow Fitting,Male,Rotatable 10Mpa



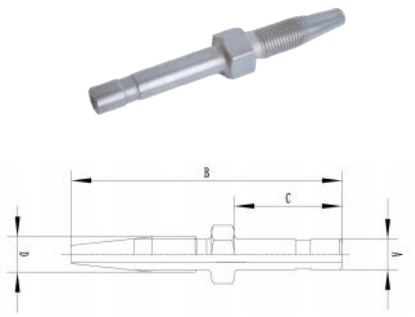
Part mumber	OD	D1	D2	L1	L2
MP150418	Ø4	R1/8″	9	7.5	20
MP1504M6	Ø4	M6*1.0	9	8	20.5
MP1504M8	Ø4	M8*1.0	9	8	20.5
MP1504M10	Ø4	M10*1.0	9	8	20.5
MP150618	Ø6	R1/8″	12	7.5	20
MP1506M6	Ø6	M6*1.0	12	8	21.5
MP1506M8	Ø6	M8*1.0	12	8	21.5
MP1506M10	Ø6	M10*1.0	12	8	21.5

HP18 - Taper Elbow Fitting,Male,Rotatable 25Mpa



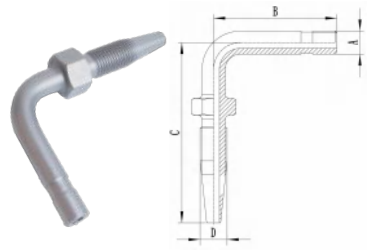
Part mumber	OD	D1	D2	L1	L2
HP180418	Ø4	R1/8″	9.5	8.5	22
HP1804M6-1	Ø4	M6*0.75	9.5	6	22
HP1804M6	Ø4	M6*1	9.5	8	22
HP1804M8	Ø4	M8*1	9.5	8	22
HP1804M10	Ø4	M10*1	9.5	8	22
HP180618	Ø6	R1/8″	11.5	8.5	24
HP180614	Ø6	R1/4″	11.5	11	24
HP1806M6	Ø6	M6*1	11.5	8	24
HP1806M8	Ø6	M8*1	11.5	8	24
HP1806M10	Ø6	M10*1	11.5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

Hose coupling straight



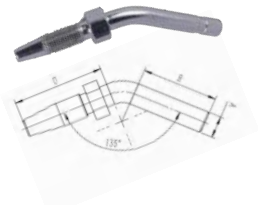
Part mumber	A	B	C	D	Material
ZZ06	Ø6	60	30	M7*1	Zinc-nickel plated
ZZ06-1(Short)	Ø6	54.5	21.5	M7*1	
ZZ0610	Ø6	63	30	M10*1	
ZZ08	Ø8	63	30	M10*1	

Hose coupling bent



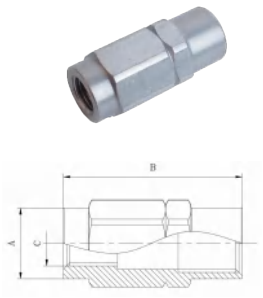
Part mumber	A	B	C	D	Material
WZ06	Ø6	32	45	M7*1	Zinc-nickel plated
WZ0610	Ø6	32	45	M10*1	
WZ06-1(Short)	Ø6	20	45	M7*1	
WZ08	Ø8	35	50	M10*1	

135°Hose coupling bent



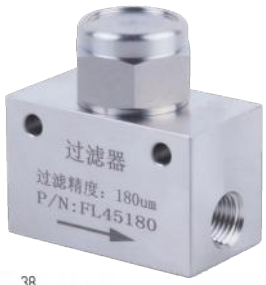
Part mumber	OD	B	C	D	Material
WZ13506	Ø6	30	36	M7*1	Zinc-nickel plated

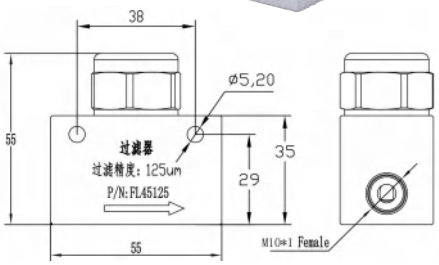
Threaded sleeve



Part mumber	OD	A	B	C	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.

Nut

Part mumber	Thread	TUBE O.D.	MPa
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	

Ferrule

Part mumber	TUBE O.D.	MPa
RL-06	Ø6	Light series L
RL-08	Ø8	
RL-10	Ø10	
RL-12	Ø12	

High-pressure flexible pipe

Part number	Outer diameter	Inside diameter
T-HP03	Ø6	Ø3
T-HP04	Ø8.6	Ø4
T-HP06	Ø11.2	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

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	Marterial
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

CISO

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