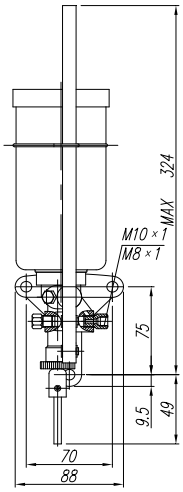
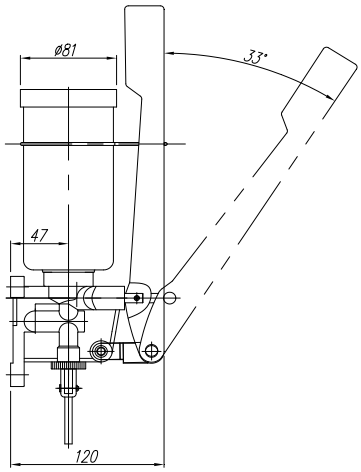
# CONTENTS

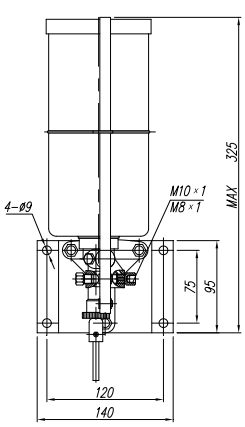
# SG Hand Lubricator

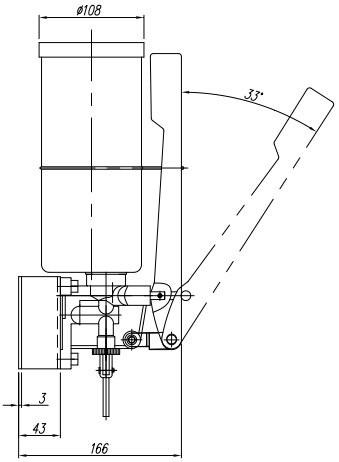
**20601**

**20602**



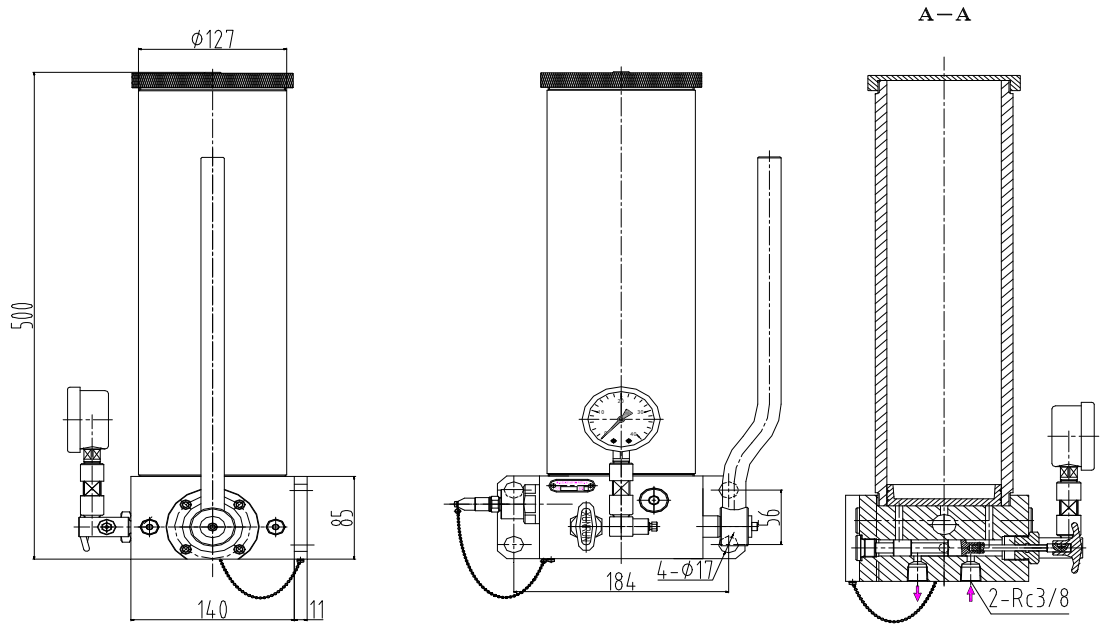




| Model | P.N | Pressure（MPa） | Discharge per stroke (ml) | reservoir（L） | Lubrication system | Grease range | W.g.t |
|---|---|---|---|---|---|---|---|
| SG-1×0.4 | 20601 | 15 | 1 | 0.4 | PDI | NLGI 000#~0# | 1.9 |
| | 20602 | | 1 | 0.4 | PRG | | |
| SG-1×1 | 20603 | | 1 | 1 | PDI | | 2.7 |
| | 20604 | | 1 | 1 | PRG | | |

Note: Optional outlet threads M8 × 1and M10 × 1 are available for your choice. Please specify the outlet and reservoir at time of order.

For Example: SG-1×0.4 20601 M8×1;



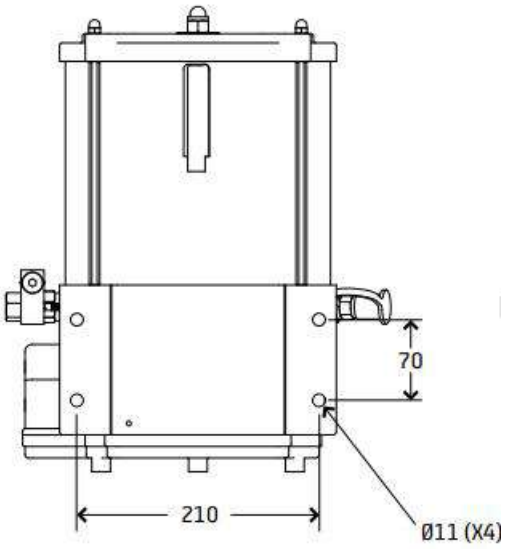

| Model | P.N | Pressure（MPa） | Discharge per stroke(ml) | reservoir（L） | Lubrication system | Grease range | Output Thread |
|---|---|---|---|---|---|---|---|
| SG-1×3.5 | 20605 | 7 | 8.0 | 3.5 | PDI | NLGI 000#~2# | Rc3/8 |

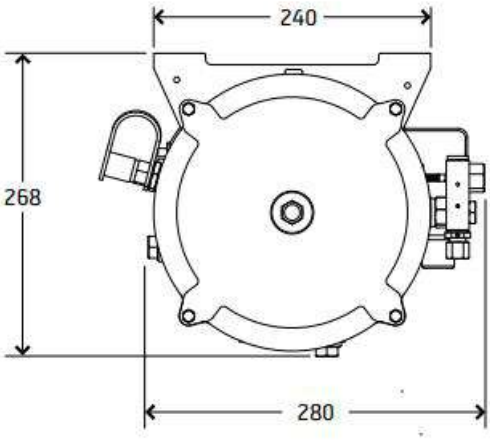
# IHI SK505 Electrical Grease Pump


**Note:**

| | |
|---|---|
| **Model** | **SK-505** |
| **Outlet** | **1 outlets** |
| **Discharge** | **13cc/min** |
| **Reservoir** | **1L** |
| **Driven** | **Electrical** |
| **Weight** | **1.9kg** |
| **Voltage** | **DC24V** |
| **Power** | **25W** |
| **Level Switch** | **Option** |
| **Working pressure** | **8Mpa** |

# FS Grease Pump

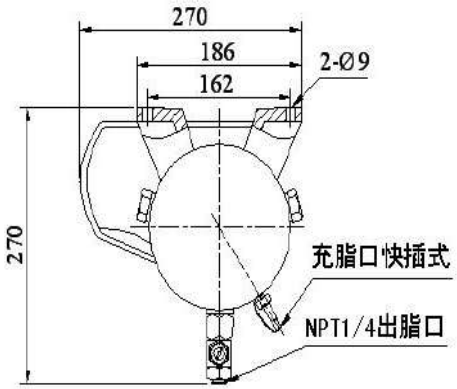


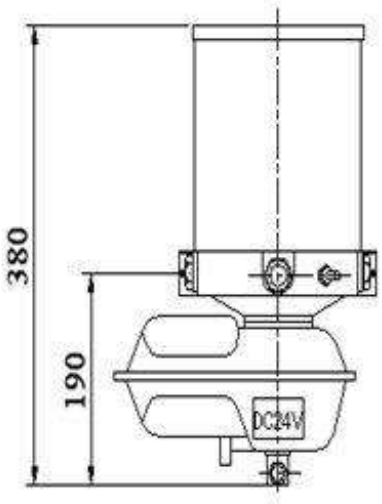




| | |
|---|---|
| Power voltage | 12、24VDC |
| Timer | Digital Timer |
| Motor Power | 50W with reducer |
| Max. pressure | 16-30MPa |
| Single outlet discharge | 2.9ml/outlet |
| Number of outlet | 1~3 |
| Reservoir | 4kg,8kg |
| Grease range | NLGI 000#~00#2 |
| Protection | IP67 |
| Lubricant | #0~#2 Grease |
| Running time | 20min Maximum working time |
| Outlets | 8mm hose(Rc1/4) |

# DZGK Grease Lubricator(20702 pump)


Two options: Plastic or aluminum



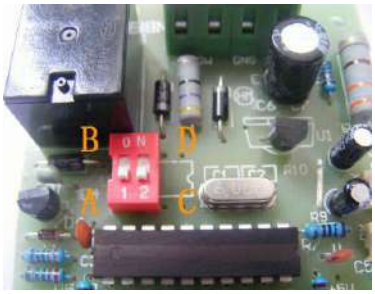

**20702-Number of outlet**

Note: Optional outlet threads M12 × 1.5 and Rp1/4 are available for your choice.
Please specify the outlet and reservoir at time of order.

## Parameter:

| | |
|---|---|
| Power voltage | 12、24VDC |
| Timer | Timer-1、Timer-2 or without Timer |
| Motor Power | 50W |
| Max. pressure | 25MPa |
| Single outlet discharge | 5.5ml/min |
| Number of outlet | 1~3 |
| Reservoir | 2L (plastics) lubrication pump |
| Grease range | NLGI 000#~00#2 |
| Protection | IP65 |
| Interval | 2 minutes to 15 hours |
| Running time | 4 seconds to 37.5 minutes |
| Current | when loaded 3A |
| Usage | Heavy duty |
| | lubrication system |

## Timer-1:



### Working Time

| A：Working time（Second） | | | | B：Working time（mins） | | | |
|---|---|---|---|---|---|---|---|
| Item | Time | Item | Time | Item | Time | Item | Time |
| 0 | 4 | 8 | 64 | 0 | 1 | 8 | 20 |
| 1 | 8 | 9 | 72 | 1 | 2.5 | 9 | 22.5 |
| 2 | 16 | A | 80 | 2 | 5 | A | 25 |
| 3 | 24 | B | 88 | 3 | 7.5 | B | 27.5 |
| 4 | 32 | C | 96 | 4 | 10 | C | 30 |
| 5 | 40 | D | 104 | 5 | 12.5 | D | 32.5 |
| 6 | 48 | E | 112 | 6 | 15 | E | 35 |
| 7 | 56 | F | 120 | 7 | 17.5 | F | 37.5 |

### Stop Time

| C：Stop（min） | | | | D: Stop（Hours） | | | |
|---|---|---|---|---|---|---|---|
| Item | Time | Item | Time | Item | Time | Item | Time |
| 0 | 2 | 8 | 32 | 0 | 0.5 | 8 | 8 |
| 1 | 4 | 9 | 36 | 1 | 1 | 9 | 9 |
| 2 | 8 | A | 40 | 2 | 2 | A | 10 |
| 3 | 12 | B | 44 | 3 | 3 | B | 11 |
| 4 | 16 | C | 48 | 4 | 4 | C | 12 |
| 5 | 20 | D | 52 | 5 | 5 | D | 13 |
| 6 | 24 | E | 56 | 6 | 6 | E | 14 |
| 7 | 28 | F | 60 | 7 | 7 | F | 15 |

**Note: 1.Factory setting: working on Second and stop on minute.**

**2. If you want to working on mins or stop on hours,you can adjust the key position.**

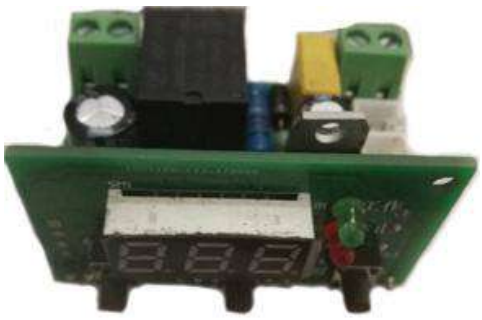
### Parameter

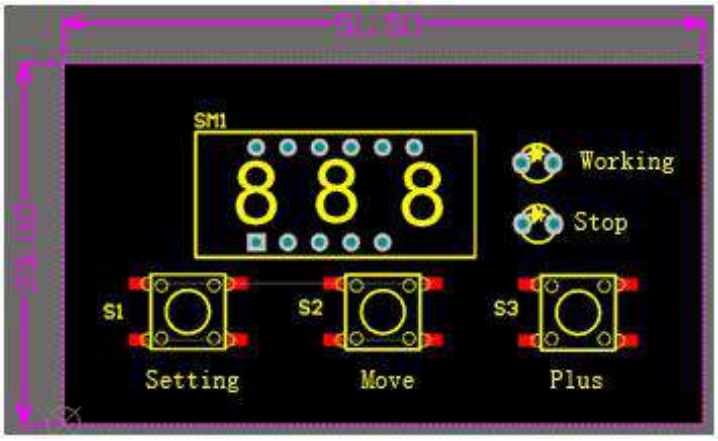
Output：24VDC±10%

Power：60VA

Working temperature：－10～50℃

## Timer-2:






### Main Function Explain：

1、 Working time:1-999s ；

2、 Idle time:1-999m；

3、 The timer can work with the low level switch(switch off when the grease empty),The switch will work again after the grease filled.

When the grease close empty,the timer will alarm and show “ERO” .Fill the grease and the pump will work again.

4、 You can operate the pump by press the button.

5、 The timer have the power off memory function,If the pump is powered off when it’s stop,the pump will work from the stop time.

If the pump is powered off when working,the pump will work again once power on.

### How to set the timer

| | | | |
|---|---|---|---|
| 1st step | Press “setting” for 3 seconds | Setting the working time “T1”(the working light is on) | Press the “move” and “plus”button to set the number |
| 2nd step | Press the “setting” | Setting the stop time “T2”(the stop light is on) | Press the “move” and “plus”button to set the number |
| 3rd step | Press the “setting” | finished | |

**Voltage：DC24V±5V;**
**Power：Max.3W;**
**Temperature:-40-85℃;**
**utput power:<50W;**

**Complete piston(Pump element) with relief valve.**

| Figure | Material | Name. | Part No. | Stud Φ |
|---|---|---|---|---|
|  | Steel | Pump Valve | 207001 | |
|  | Steel | Relife Valve | 207002 | |
|  | Steel | Coupling | 207003 | PT1/4-Φ6 |

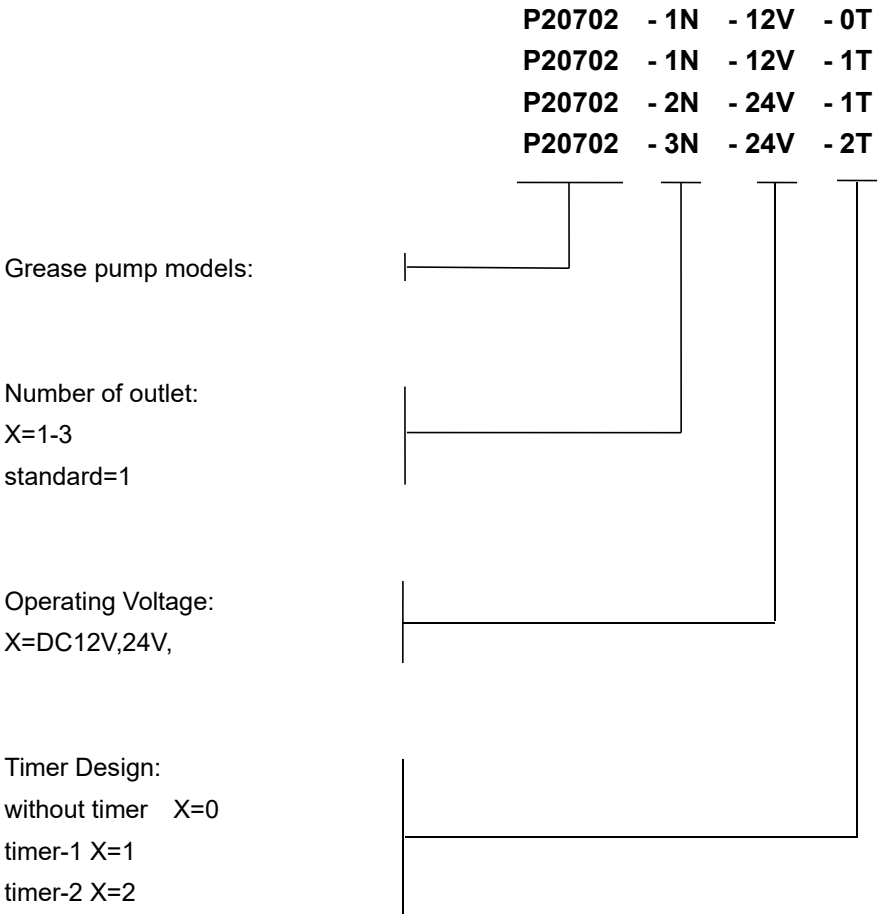
# Popular 20702 Models

| Part No | Model | Outlets | Voltage (V) | Timer |
|---|---|---|---|---|
| 207021120 | P20702-1N-12V-0T | 1 | 12VDC | 0 |
| 207022121 | P20702-2N-12V-1T | 2 | 12VDC | 1 |
| 207022241 | P20702-2N-24V-1T | 2 | 24VDC | 1 |
| 207023242 | P20702-3N-24V-2T | 3 | 24VDC | 2 |

# Indentification Code Pump Models 20702

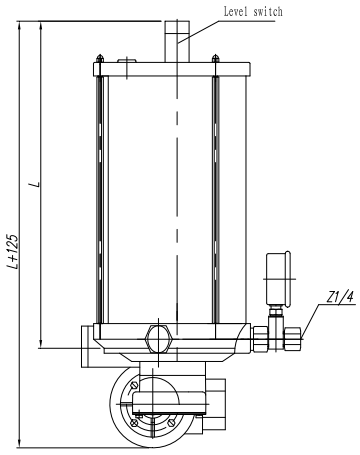
**Examples for Model Designation**

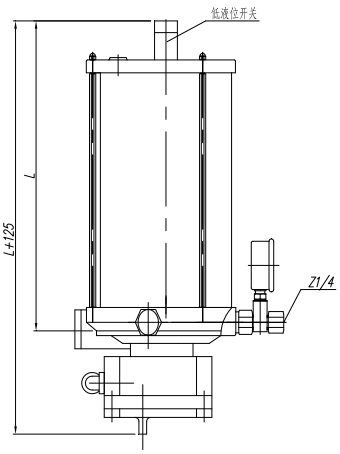
**P20702 - 1N - 12V - 0T**
**P20702 - 1N - 12V - 1T**
**P20702 - 2N - 24V - 1T**
**P20702 - 3N - 24V - 2T**

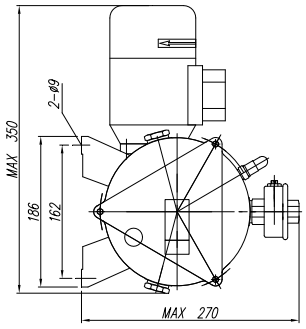


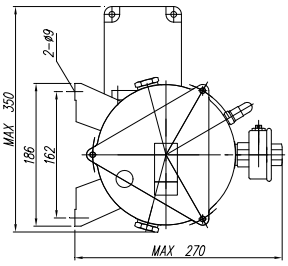
# DZG Grease Lubricator(20703 pumps)

Fill grease from top or from grease nipple

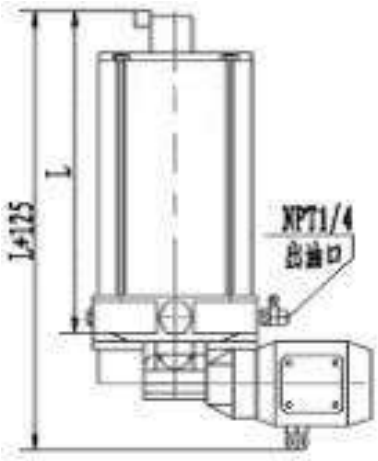


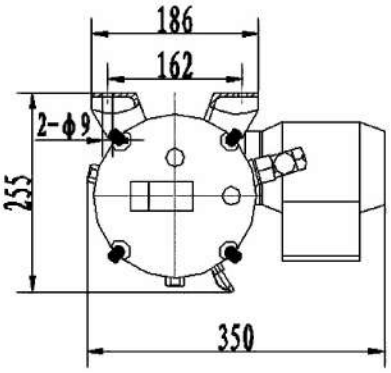



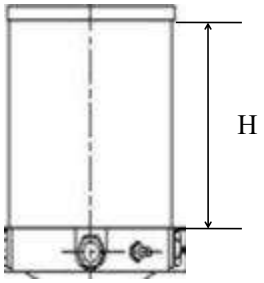

## 6L with Level Switch




## 6L with Alu Reservoir

# 20703 Pumps




| Height of Reservoir (L) | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|
| H(mm) | 186 | 269 | 308 | 358 | 408 | 508 | 608 | 708 |

The 20703 centralized lubrication pump is a powerful and robust compact multi-line pump that can drive up to 3 elements and is used in progressive (Quicklub or Modular Lube) automated lubrication systems.It is perfect for mobile applications,small and medium sized macinery and general industries.Versatile,compact and economical,this pump can be enhanced with low-level control and printed circuit board that allow fou controlling the lubrication cycles.

The family of 20703 pumps includes 12 and24VDC、220 and 380VAC.They are available with 1,2 or 3 elements in with an adjustable output element.Reservoir sizes are 2.5,3,4,5,6,8,10 or12 liters. Refer to the pump identification code for a complete listing of available pump configurations.

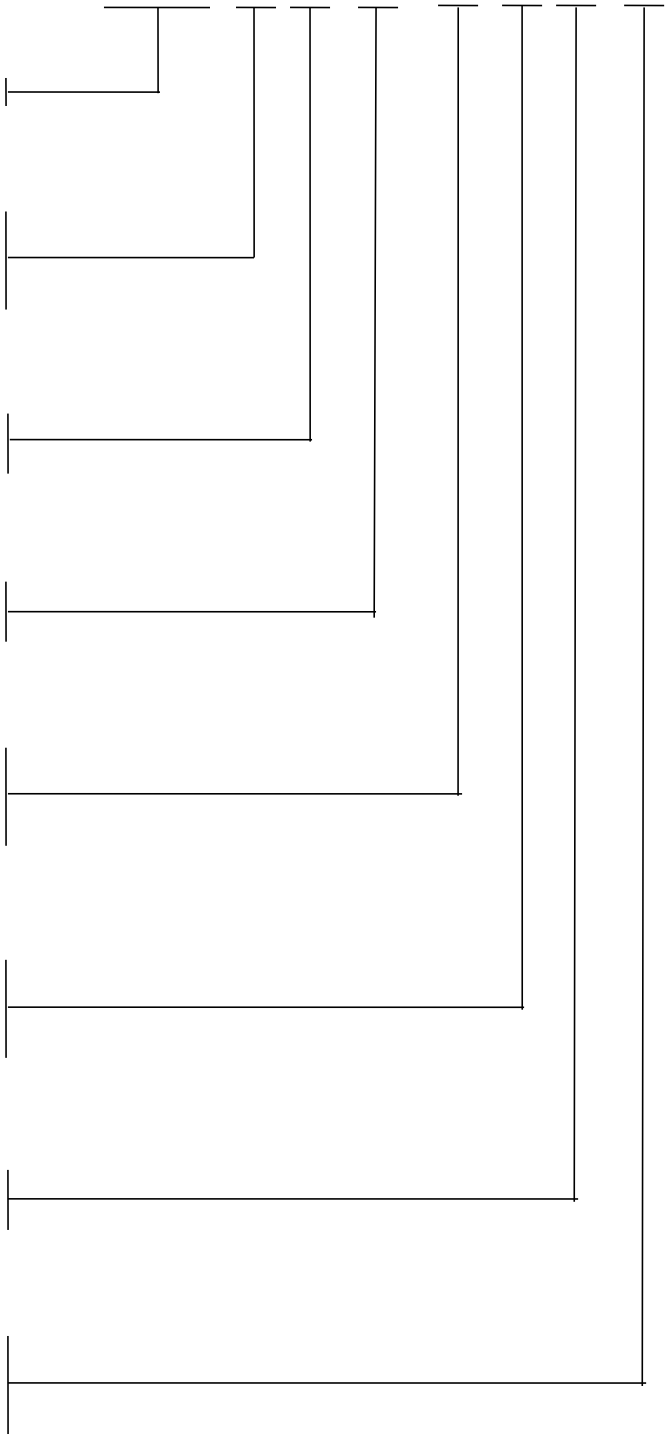
# Popular 20703 Models

| Part No | Model | Voltage (V) | Reservoir (L) | Timer | Level switch | Discharge per stroke (ml/min) |
|---|---|---|---|---|---|---|
| 125241010 | P20703-1N-25L-24V-1T-0S-T-0M | 24VDC | 2.5 | yes | no | 5.5 |
| 125241115 | P20703-1N-25L-24V-1T-1S-T-5M | 24VDC | 2.5 | yes | yes | 5.5 |
| 225241100 | P20703-2N-25L-24V-1T-1S-D-0M | 24VDC | 2.5 | yes | yes | 5.5 |
| 33241000 | P20703-3N-3L-24V-1T-0S-D-0M | 24VDC | 3 | yes | no | 5.5 |
| 14241110 | P20703-1N-4L-24V-1T-1S-T-0M | 24VDC | 4 | yes | yes | 5.5 |
| 14240010 | P20703-1N-4L-24V-0T-0S-T-0M | 24VDC | 4 | no | no | 5.5 |
| 142201015 | P20703-1N-4L-220V-1T-0S-T-5M | 220VAC | 4 | yes | no | 3 |
| 15241005 | P20703-1N-5L-24V-1T-0S-D-5M | 24VDC | 5 | yes | no | 5.5 |
| 16241100 | P20703-1N-6L-24V-1T-1S-D-0M | 24VDC | 6 | yes | yes | 5.5 |
| 162200015 | P20703-1N-6L-220V-0T-0S-T-5M | 220VAC | 6 | no | no | 3 |
| 182201105 | P20703-1N-8L-220V-1T-1S-D-5M | 220VAC | 8 | yes | yes | 3 |
| 183801015 | P20703-1N-8L-380V-1T-0S-T-5M | 380VAC | 8 | yes | no | 3 |
| 1102200000 | P20703-1N-10L-220V-0T-0S-D-0M | 220VAC | 10 | no | no | 3 |
| 1123801115 | P20703-1N-12L-380V-1T-1S-T-5M | 380VAC | 12 | yes | yes | 3 |

# Indentification Code Pump Models 20703

**Examples for Model Designation**

**P20703 - XN - XL - XV - XT - XS -T/D - XM**
**P20703 - 1N - 25L - 24V - 1T -1S - T - 5M**
**P20703 - 3N - 3L - 24V - 0T -0S - D - 0M**
**P20703 - 1N - 4L - 220V - 1T - 0S - T - 0M**
**P20703 - 1N - 8L - 380V - 0T - 1S - D - 5M**



Grease pump models:

Number of outlet:
X=1-3
standard=1

Reservoir Design:
X=2,3,4,5,6,8,10L

Operating Voltage:
X=DC24V,AC220V,AC380V

Timer Design:
without timer X=0
time X=1

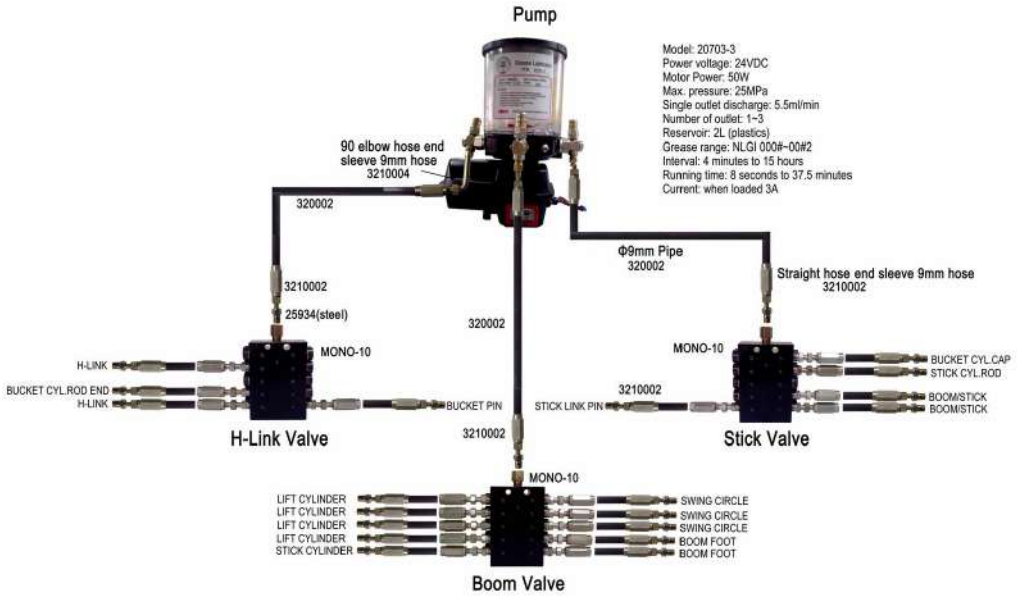
Level Switch:
without level switch X=0
with level switch X=1

T/D Design:
T=filling from top

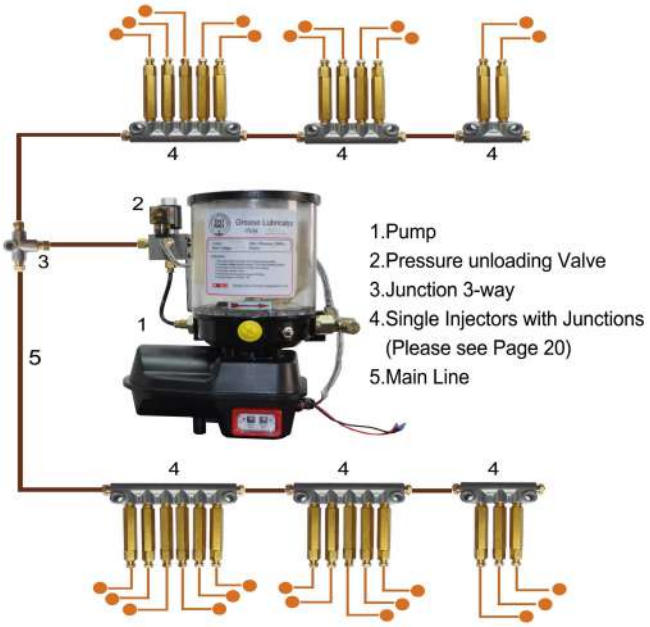
M Design:
Without cable M=0
With 5M cable M=1

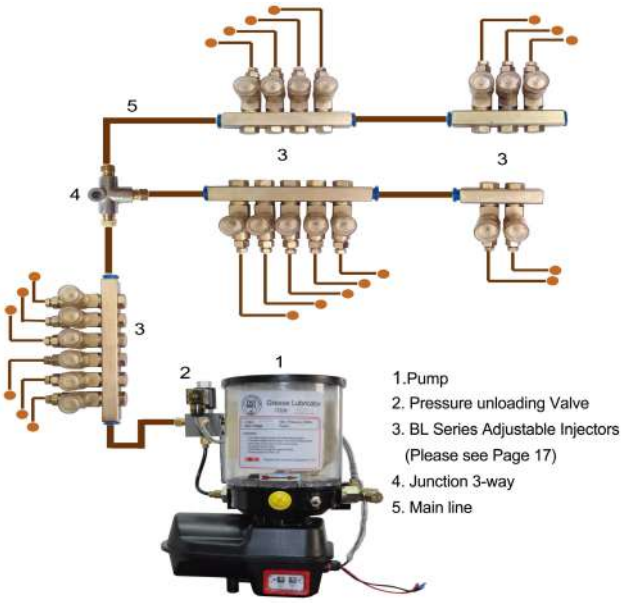
# Application of DZGK Motorized Grease Lubricator

## Grease lubrication system (PRG)



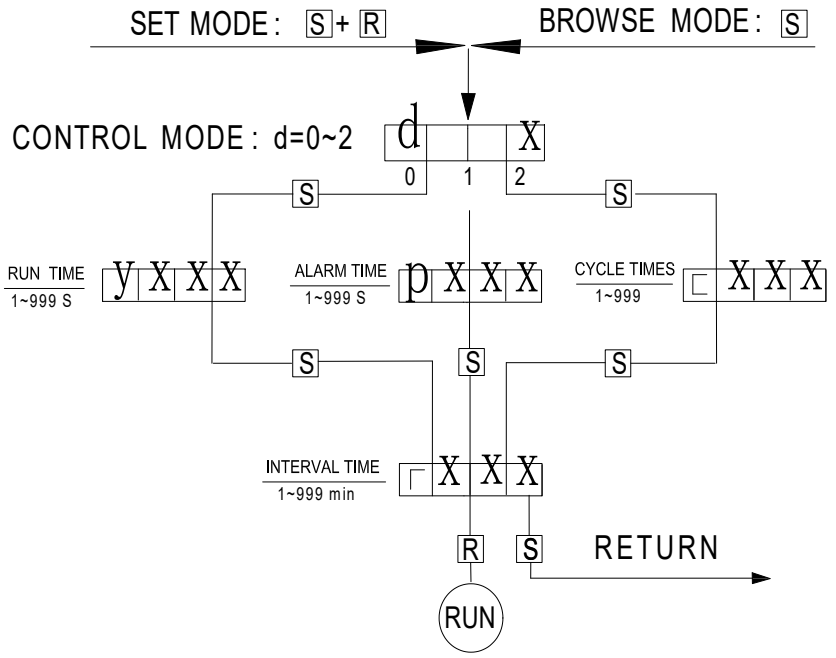

## Grease injectors lubrication system (PDI)



# TC-2 Controller

HLGC-1 is designed for controlling and monitoring of centralized lubrication systems of engineering machinery, chassis and lubrication stations.The control unit use LCD to display information.





| Model | P.N. | Voltage(V) | Timer |
|---|---|---|---|
| TC-2 | HLGC-1 | 24VDC | YES |
| TC-2 | HLGC-2 | 220VAC | YES |

# Y6020 Electric grease pump

Drum electric grease pump can be connected with battery (DC-24V) of the engineering machinery,easy to use, the output pressure is high, the output is adequate. As the special products of excavator ,it's economic enough when repairing the engineering machinery.Widely used in ports, mines, steel mills stone field, garages, specialized in the field of manufacturing production line and so on many products. 220V Drum electric grease lubrication pump can be inserted into the grease barrel directly in the workshop without air source, so as to prevent oil from the oil into the machine barrel, more easy and convenient to use.

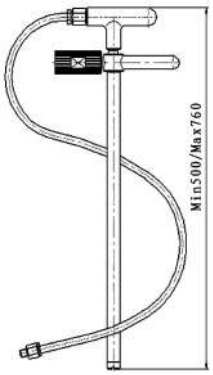
## Application:

For high viscosity grease injection.
Suitable for all kinds of power machine grease injection especially in Mining area,building area,earth moving area.

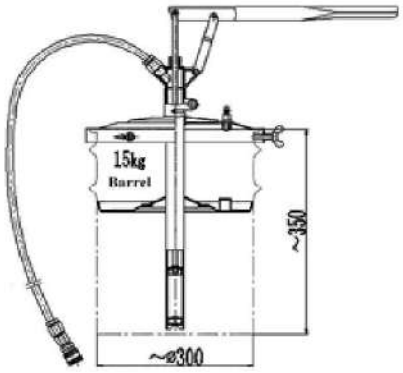
Power supply AC220V/DC24V/DC12V
Barrel capacity:20-30L
Output capacity :0.6L/min
Output pressure :<350kg
Grease range: NLGI 000#~00#3
Weight :25kg
Drum inner diameter :280-320mm

# SQ Grease filler series

SQ manual grease filler is a tool to manually send grease in barrel to various grease pump reservoirs；
They can effectively prevent air from mixing into grease as well as other grease pollution.
It is a necessary filling tool on various grease lubrication sites.




SQ-1




SQ-2

| Model | P.N. | Amount of fill | Filling | Filling port thread | Grease filled |
|---|---|---|---|---|---|
| | | mL/CYC | MPa | | |
| SQ-1 | 20770 | 50 | 0.8 | Quick plug | NLGI 000#~2# |
| SQ-2 | 20780 | | 1.0 | | |

Remark: Optional filling port thread are available. Please specify at time of order.

# QZ High pressure oil injector

It is driven by compressed air, the grease is delivered by high pressure.；
It can realize the filling grease mechanization, raise the production efficiency and reduce labor intensity, convenient in operation, safe and reliable；
It is used in filling grease and oil for automobile, tractor and other power machine.

| Type | Code | Pressure ratio | Input pressure | compressed air | Discharge | Grease viscosity | Weight | Note |
|---|---|---|---|---|---|---|---|---|
| | | | MPa | MPa | L/min | | | |
| QZ | 20791 | 50:1 | 25～35 | 0.5～0.7 | 0～0.8 | 000#~2# | 5kg | 20kg,50kg,200kg |
| QZ-2 | 20793 | 5:1 | 2.5~4 | 0.5～0.8 | 12-14 | oil | 9.1kg | 20kg,50kg,200kg |
| QZ-3 | 20794 | 55:1 | 16.5~55 | 0.3~1 | 0～0.65 | 000#~2# | 10kg | 20kg,200kg |

# MONO Progressive Distributor

## General

The MONO series progressive distributor is designed for small-size progressive lubrication systems. They are a cost efficient solution for supplying multiple lubrication points with relatively small volumes of oil and grease. The MONO series can be used with machine tools, processing machinery, presses, textile, printing and packaging machinery. The MONO is also suitable for mobile applications, including off-road equipment.

## Technical data

| | |
|---|---|
| Operating pressure max | 30Mpa |
| Discharge per outlet | 0.25g /cyc |
| Ambient temperature | -20℃to +80℃ |
| Grease lubricants | NLGI 000 # to 2#;<br>Oil ISO VG 68 to 1500 at operating |
| Advantage | 1.No rubber seals<br>2.Combining of outlets<br>3.Exact lubricant metering<br>4.High operating pressure |

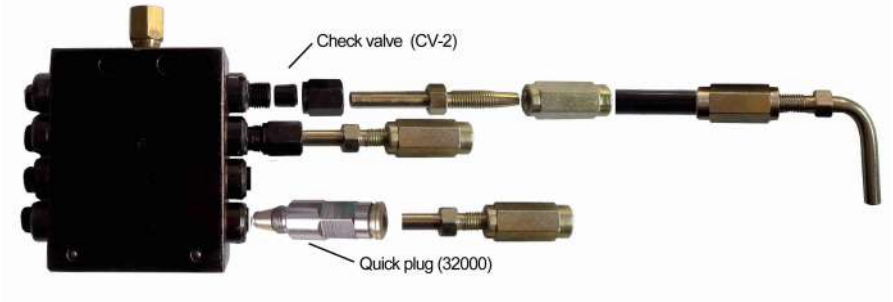

## How to Order

| Symbol | 06 | 08 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|
| Outlet Number | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |

***The example:**

**Mono-06** **Mono**:The type; **06**:The number of the outlet;

## Application:



## Check valve of MONO

Outlet fitting with check valve of MONO
Part No. CV-1 (for 4mm pipe)
CV-2 (for 6mm pipe)

## High pressure Quick plug in fittings

**Check valve for 6 mm tube with feinforced collet and smooth flange .**

Pressure:30MPa
Part No. 32000 (for 6mm pipe)

| Figure | Material | Name | Part No. | Stud Φ |
|---|---|---|---|---|
|  | Steel | Check Valve | 323001 | 6mm |
|  | Steel | Sleeve | 323002 | 6mm |
|  | Steel | Compression Nut | 323003 | 6mm |
|  | Brass | Brass Washer | 323004 | 6mm |
|  | Steel | Plug | 323008 | 6mm |

# M2500 Progressive Block

A typical M2500 progressive distributor consists of a inlet section, a end section and no less than 3 sections and no more than 10 sections. A progressive distributor can have 3 to 20 outlets. Twice outlet section (Add “T” after section specification means twice outlet section) have two outlets at both side of the section. Single outlet section (Add “S” after section specification means single outlet section) have a outlet at one side of the section. Please pay attention that you can block any out otherwise the progressive distributor can not work.

## Technical data

Max work pressure：25Mpa

Delivery: 0.08ml/cyc ～ 1.28ml/cyc

Lubricant viscosity (under standard temperature): oil≥N68,grease:NLGI 000#～2#

Work temperature: -20℃～+60℃

Max work frequency (with stem):60cyc/min

Max work frequency (without stem):200cyc/min

Manifold number: 3～10

Outlet: Φ6mm length: 1.2～3.5m　Φ8mm length1.5～4.5m

## M2500 Valve Size

| Valve Size | Discharge per Hole（mL/cyc） | | Max Pressure （MPa） | Min Working Pressure （MPa） | P.N. | |
|---|---|---|---|---|---|---|
| | Twin | Single | | | Twin outlet | Single |
| 05 | 0.08 | 0.16 | 25 | 1.4 | 22500-05T | 22500-05S |
| 10 | 0.16 | 0.32 | | | 22500-10T | 22500-10S |
| 15 | 0.24 | 0.48 | | | 22500-15T | 22500-15S |
| 20 | 0.32 | 0.64 | | | 22500-20T | 22500-20S |
| 25 | 0.41 | 0.82 | | | 22500-25T | 22500-25S |
| 30 | 0.49 | 0.98 | | | 22500-30T | 22500-30S |
| 35 | 0.57 | 1.14 | | | 22500-35T | 22500-35S |
| 40 | 0.64 | 1.28 | | | 22500-40T | 22500-40S |

Note:

1.Only the valve size up to 20 can install the indicator

2. User shall specify changed inlet/outlet diameter, when ordering;

3. Never block outlet of a distributor so as to avoid over pressure damage to the distributor;

4. In order to keep veracity of assembly, please machine reserve two fixed holes of the inlet section(or end section) on the machine. Because progressive divider valve the distance between the fixed holes will changed within a little range. Machining two holes per the progressive divider valve actual dimension when fixing the progressive divider valve.

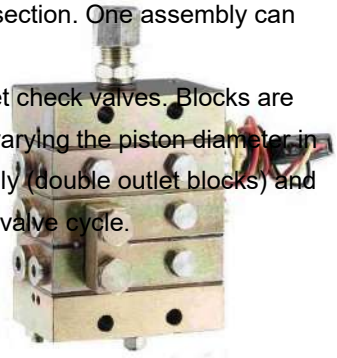
## M2500 Dimension

| Number Of Working Slice | M (mm) | L (mm) | Number Of Working | M | L (mm) |
|---|---|---|---|---|---|
| 3 | 91 | 122 | 7 | 185 | 215 |
| 4 | 114 | 145 | 8 | 208 | 239 |
| 5 | 138 | 169 | 9 | 231 | 262 |
| 6 | 161 | 192 | 10 | 255 | 285 |

# DJF1000 Series Distributors

The DJF1000 Series distributors distribute and proportion incoming oil or grease to bearing points. A typical DJF1000 distributor consists of an inlet section, three to nine valves and an end section. One assembly can serve up to a maximum of 18 lubrication points.

The DJF1000 Series distributors have a sliding discharge piston and built-in outlet check valves. Blocks are offered in three output sizes. The discharge capacity of a block is determined by varying the piston diameter in the valve block. Valve blocks have two outlets located at each end of the assembly (double outlet blocks) and supply rated discharge outputs from each of the two outlets during one complete valve cycle.



Technical data

Max work pressure：16MPa

Delivery：0.08ml/cyc ～ 0.48ml/cyc

Lubricant viscosity (under standard temperature):

oil≥N68;grease:NLGI 000#～2#

Work temperature:-20℃～+60℃

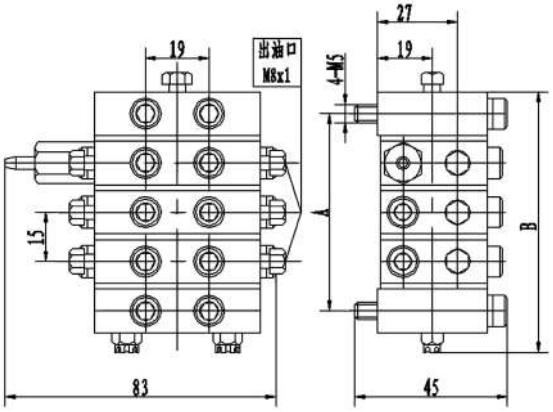
Max work frequency (with stem):60cyc/min

Max work frequency (without stem):200cyc/min

Manifold number:3～8

Tubing: Outlet: Φ4mm length: 0.5～2.5m

Inlet: Φ6mm length:1.2～3.5m




## DJF-1000 Dimension

| Number Of Working | A (mm) | B (mm) | Number Of Working | A (mm) | B (mm) |
|---|---|---|---|---|---|
| 3 | 59.3 | 80.0 | 6 | 104.6 | 125.0 |
| 4 | 74.7 | 95.0 | 7 | 119.6 | 141.0 |
| 5 | 89.5 | 110.0 | 8 | 134.7 | 156.0 |

## DJF1000 Parameter

| NO | Valve Size | Discharge mL/Cyc | P.N. | Max Pressure MPa | Min Pressure MPa | Inlet Screw | Inlet Pipe | Outlet screw | Outlet pipe | Outlet per Slice |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1000-0 | 0.08 | 20710-0 | 16 | 1.4 | M10×1 | Φ6 | M8×1 | Φ4 | 2 |
| | 1000-0 | 0.16 | 20710-0 | | | | | | | 1 |
| 2 | 1000-1 | 0.16 | 20710-1 | | | | | | | 2 |
| | 1000-1 | 0.32 | 20710-1 | | | | | | | 1 |
| 3 | 1000-1 | 0.24 | 20710-1 | | | | | | | 2 |
| | 1000-1 | 0.48 | 20710-1 | | | | | | | 1 |
| 4 | 1000-2 | 0.32 | 20710-2 | | | | | | | 2 |
| | 1000-2 | 0.64 | 20710-2 | | | | | | | 1 |

**Note:**

1. Cycle indicator can be mounted on 1.5T or 1.5S sections;
2. User shall specify changed inlet/outlet diameter, when ordering;
3. Never block outlet of a distributor so as to avoid over pressure damage to the distributor;
4. Smallest segments group shall have 3 sections; largest segments group shall have 8 sections.

# DJF2000 series distributors

DJF2000 series distributors suit for high ambient temperature. With manual lubricator, motorized lubricator and pneumatic lubricator can form single line lubrication system. Widely be used in large machine tool and harbor machines. A typical DJF2000 distributor consist of a inlet section, a end section and no less than 3 sections and no more than 10 sections. A distributor can have 3 to 20 outlets. Twice outlet section (Add “T” after section specification means twice outlet section) have two outlets at both side of the section. Single outlet section (Add “S” after section specification means single outlet section) have an outlet at one side of the section. Please pay attention that you can block any out otherwise the progressive distributor can not work.

Technical

Max work pressure：25MPa

Delivery：0.16ml/cyc ～ 1.12ml/cyc

Lubricant viscosity (under standard temperature) : oil ≥ N68, grease: NLGI 000#～2#

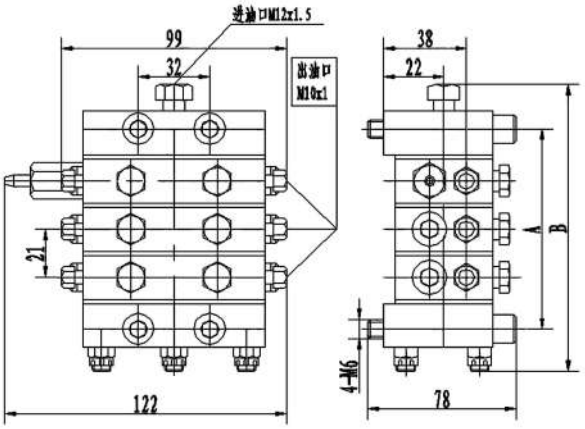
Work temperature: -20℃～+60℃

Manifold number: 3～10

Tubing: Outlet: Φ6mm length: 1.2～3.5m

Inlet: Φ8mm length:1.5～4.5m

Manifold Material: carbon steel




## DJF-2000 Dimension

| Number Of Working Slice | A (mm) | B (mm) | Number Of Working | A (mm) | B (mm) |
|---|---|---|---|---|---|
| 3 | 89.4 | 143.0 | 7 | 171.8 | 223.0 |
| 4 | 110.0 | 163.0 | 8 | 192.4 | 244.0 |
| 5 | 130.6 | 183.0 | 9 | 213.0 | 264.0 |
| 6 | 151.2 | 203.0 | 10 | 233.6 | 284.0 |

## DJF-2000 Specification

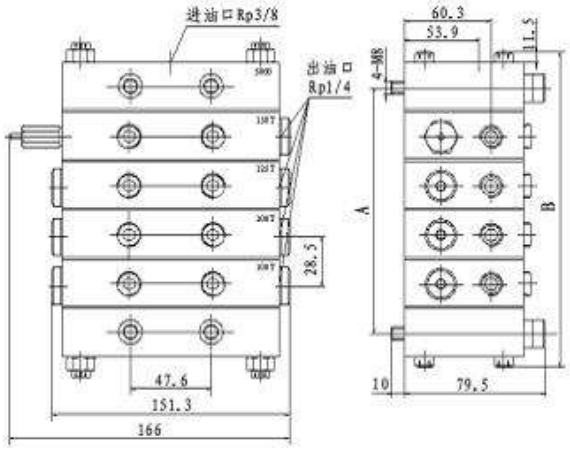
| No | Valve Size | Discharge ml/cyc | P.N. | Max Pressure MPa | Min Working Pressure MPa | Inlet Screw | Inlet Pipe | Outlet Screw | Outlet Pipe | Outlet per Slice |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2000-10T | 0.16 | 20720-10T | 25 | 1.4 | M12×1.5 | Φ8 | M10×1 | Φ6 | 2 |
| | 2000-10S | 0.32 | 20720-10 | | | | | | | 1 |
| 2 | 2000-15T | 0.24 | 20720-15T | | | | | | | 2 |
| | 2000-15S | 0.48 | 20720-15 | | | | | | | 1 |
| 3 | 2000-20T | 0.32 | 20720-20T | | | | | | | 2 |
| | 2000-20S | 0.64 | 20720-20 | | | | | | | 1 |
| 4 | 2000-25T | 0.40 | 20720-25T | | | | | | | 2 |
| | 2000-25S | 0.80 | 20720-25 | | | | | | | 1 |
| 5 | 2000-30T | 0.48 | 20720-30T | | | | | | | 2 |
| | 2000-30S | 0.96 | 20720-30 | | | | | | | 1 |
| 6 | 2000-35T | 0.56 | 20720-35T | | | | | | | 2 |
| | 2000-35S | 1.12 | 20720-35 | | | | | | | 1 |

Notes:

1. Cycle indicator can be mounted on 20T or 20S sections;
2. User shall specify changed inlet/outlet diameter. when ordering;
3. Never block outlet of a distributor so as to avoid over pressure damage to the distributor;
4. See "Accessories of distributors---crossing port" for crossing port selection;
5. Smallest segments group shall have 3 sections; largest segments group shall have 10 sections.

# DJF3000 series distributors

DJF3000 series distributors suit for high ambient temperature. With manual lubricator, motorized lubricator and pneumatic lubricator can form single line lubrication system. Widely be used in large machine tool and harbor machines. A typical DJF3000 distributor consist of a inlet section, a end section and no less than 3 sections and no more than 10 sections. A distributor can have 3 to 20 outlets. Twice outlet section (Add “T” after section specification means twice outlet section) have two outlets at both side of the section. Single outlet section (Add “S” after section specification means single outlet section) have an outlet at one side of the section. Please pay attention that you can block any out otherwise the progressive distributor can not work.




DJF-3000 Dimension

## Technical

Max work pressure：25MPa

Delivery： 0.4ml/cyc ～ 4.8ml/cyc

Lubricant viscosity (under standard temperature) :

oil ≥ N68, grease: NLGI 000#～2#

Work temperature: -20℃～+60℃

Manifold number: 3～10

Tubing: Outlet: Φ8mm length: 1.5～4.5m

Inlet: Φ10mm length:1.8～5.5m

Manifold Material: carbon steel

| Number Of Working Slice | A (mm) | B (mm) |
|---|---|---|
| 3 | 128.6 | 167.9 |
| 4 | 157.1 | 196.5 |
| 5 | 185.7 | 225 |
| 6 | 214.3 | 253.6 |
| 7 | 242.9 | 282.2 |
| 8 | 271.4 | 310.8 |
| 9 | 300 | 339.9 |
| 10 | 328.6 | 367.9 |

## DJF-3000 Specification

| No | Valve Size | Discharge ml/cyc | P.N. | Max Pressure MPa | Min Working Pressure MPa | Inlet Screw | Inlet Pipe | Outlet Screw | Outlet Pipe | Outlet per Slice |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3000-25T | 0.40 | 20730-25T | 25 | 1.4 | Rp3/8 | Φ10 | Rp1/4 | Φ8 | 2 |
| | 3000-25S | 0.80 | 20730-25S | | | | | | | 1 |
| 2 | 3000-50T | 0.80 | 20730-50T | | | | | | | 2 |
| | 3000-50S | 1.60 | 20730-50S | | | | | | | 1 |
| 3 | 3000-75T | 1.20 | 20730-75T | | | | | | | 2 |
| | 3000-75S | 2.40 | 20730-75S | | | | | | | 1 |
| 4 | 3000-100T | 1.60 | 20730-100 | | | | | | | 2 |
| | 3000-100S | 3.20 | 20730-100 | | | | | | | 1 |
| 5 | 3000-125T | 2.00 | 20730-125 | | | | | | | 2 |
| | 3000-125S | 4.00 | 20730-125 | | | | | | | 1 |
| 6 | 3000-150T | 2.40 | 20730-150 | | | | | | | 2 |
| | 3000-150S | 4.80 | 20730-150 | | | | | | | 1 |

Notes: 1. Cycle indicator can be mounted on 50T or 50S sections;

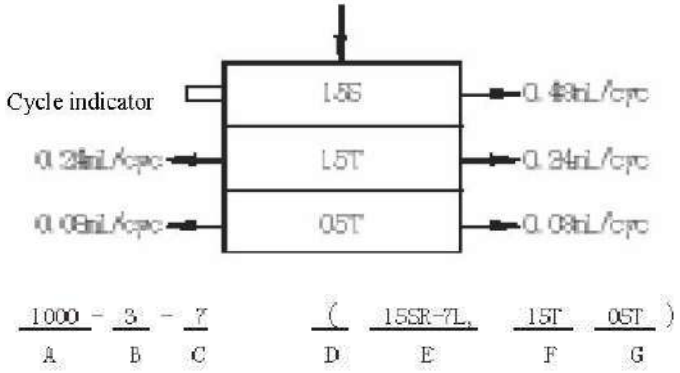
2. User shall specify changed inlet/outlet diameter. when ordering;

3. Never block outlet of a distributor so as to avoid over pressure damage to the distributor;

4. See "Accessories of distributors---crossing port" for crossing port selection

## How to order DJF1000 and DJF2000 and DJF3000 and M2500 series distributors

**Example 1: Sketch of DJF-1000 distributor ordering**




A: Indicate the type: DJF-1000;

B: indicates number of sections (3 in this case)

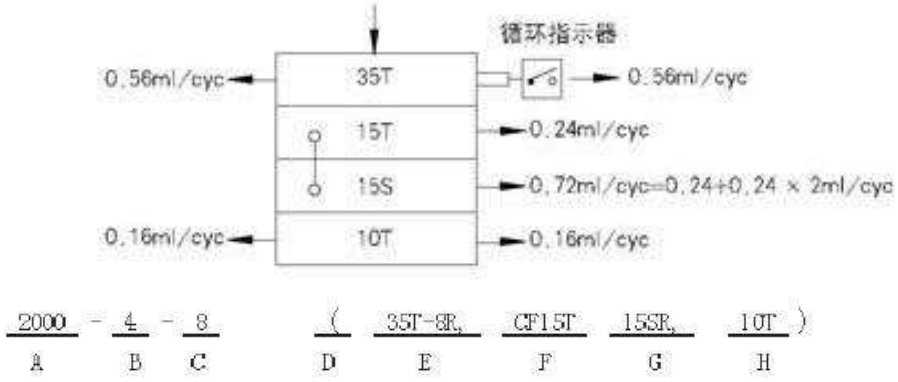
C: indicates cycle indicator (7 for mechanic indicator pin,8 for electric micro-switch type cycle indicator)

D: contents in parenthesis indicates sizes of discs after the first section listed according to their sequence

E. Size of first sections in the sequence is 15.S indicates single outlet and R shows outlet to right (and L for left). 7L indicates mechanic pin type cycle indicator installed in left (and R for right).

F. Size of second section in the sequence is 15. T indicates twin outlet.

**Example 2: Sketch of DJF-2000 distributor ordering**




A: Indicate the type: DJF-2000;

B: indicates number of sections (4 in this case)

C: indicates cycle indicator 8: micro switch type cycle indicator

D: contents in parenthesis indicates sizes of sections after the first sections listed according to their sequence

E. Size of first sections in the sequence is 35.T indicates twin outlet and 8R shows that series 8 indicators is at the right end face of the sections.

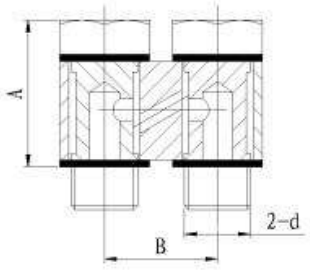
F. Size of second sections in the sequence is 1front left side of the sections. CF placed before size 15 shows that the crossport is on the left side; if it is placed after size 15, the crossport will be on the right side.

G. Size of third sections in the sequence is 15. SR indicates s

H. Size of the 4th sections is 10. T indicates twin outlet.

## Crossport

| P.N. | Description | A (mm) | B (mm) | 2-d |
|---|---|---|---|---|
| 32265-1 | 1000 cross port kit | 19 | 15 | 2-G1/8 |
| 32265-2 | 2000 cross port kit | 22 | 21 | 2-M8 |
| 32265-3 | 2500 cross port kit | 22 | 21 | 2-M8 |

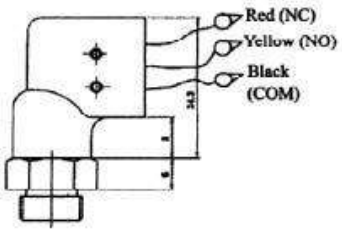



## Electro-mechanical switch

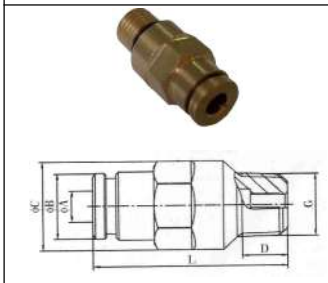
The electro-mechanical switch is a device to monitor flow of lubricant in the system. It makes use of the reciprocal movement of indicator pin on the piston of progressive distributor to enable opening or closing of the electro-mechanical switch inside the cycle indicator, so as to send electric signals to host control system. Once an abnormity occurs in the lubrication system, the host control system will be able to send alarm or stop the operation of the host to facilitate timely maintenance.

Electrical data of electrical-mechanical

Contact capacity: 250VAC 1A
125VAC 3A

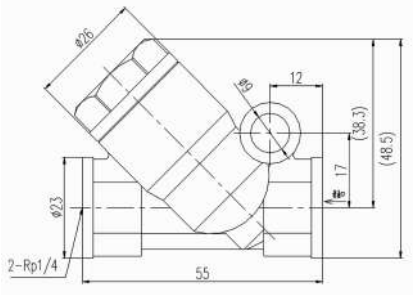



## High pressure quick plug

| Figure | P.N. | Diameter( ϕA) | Thread （G） | D | Pressure (MPa) |
|---|---|---|---|---|---|
|  | 31000 | 4 | M8×1 | 6 | 20 |
| | 31001 | 4 | M10×1 | 6 | |
| | 31002 | 4 | R1/8 | 6 | |
| | 31003 | 6 | M8×1 | 6 | |
| | 31004 | 6 | M10×1 | 6 | |
| | 31005 | 6 | R1/8 | 6 | |

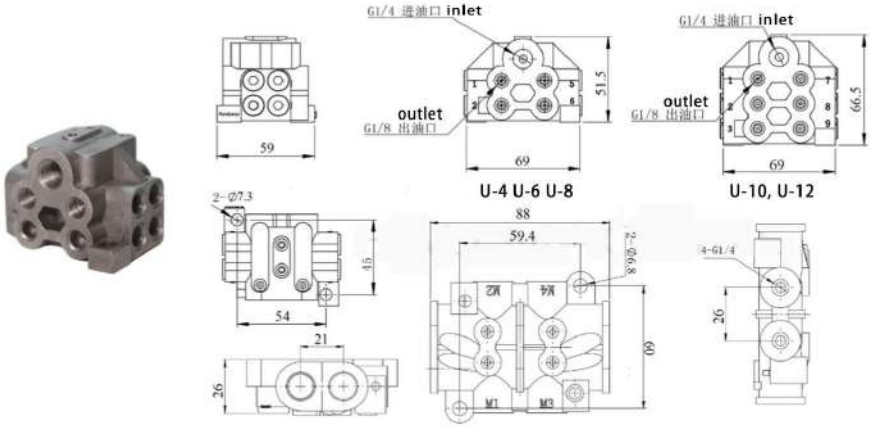
# ELS Grease Filter

ELS grease filters effectively remove grease impurities to ensure clean grease in lubrication systems. They have not clogging function. e. Therefore, they are widely used in grease lubrication systems.




| Mode | ELS |
|---|---|
| P.N. | 20801 |
| Working Pressure | 25MPa |
| Filter | 150μm |
| Weight | 210g |

# U series distributors




| P.N. | Description | Discharge | Max Pressure | Max cycle rate | Working Temperature | Grease Number |
|---|---|---|---|---|---|---|
| 37801-1 | 4 outlets | 0.3ml/cyc | 15Mpa | 200cyc/min Or 60cyc/min (with indicator) | 20 degree to 60 degree | Oil > #68 or NLGI #000-#2 |
| 37801-2 | 6 outlets | | | | | |
| 37801-3 | 8 outlets | | | | | |
| 37801-4 | 10 outlets | | | | | |
| 37801-6 | 12 outlets | | | | | |

**Note: 4mm hose-----0.5-2.5M in length**

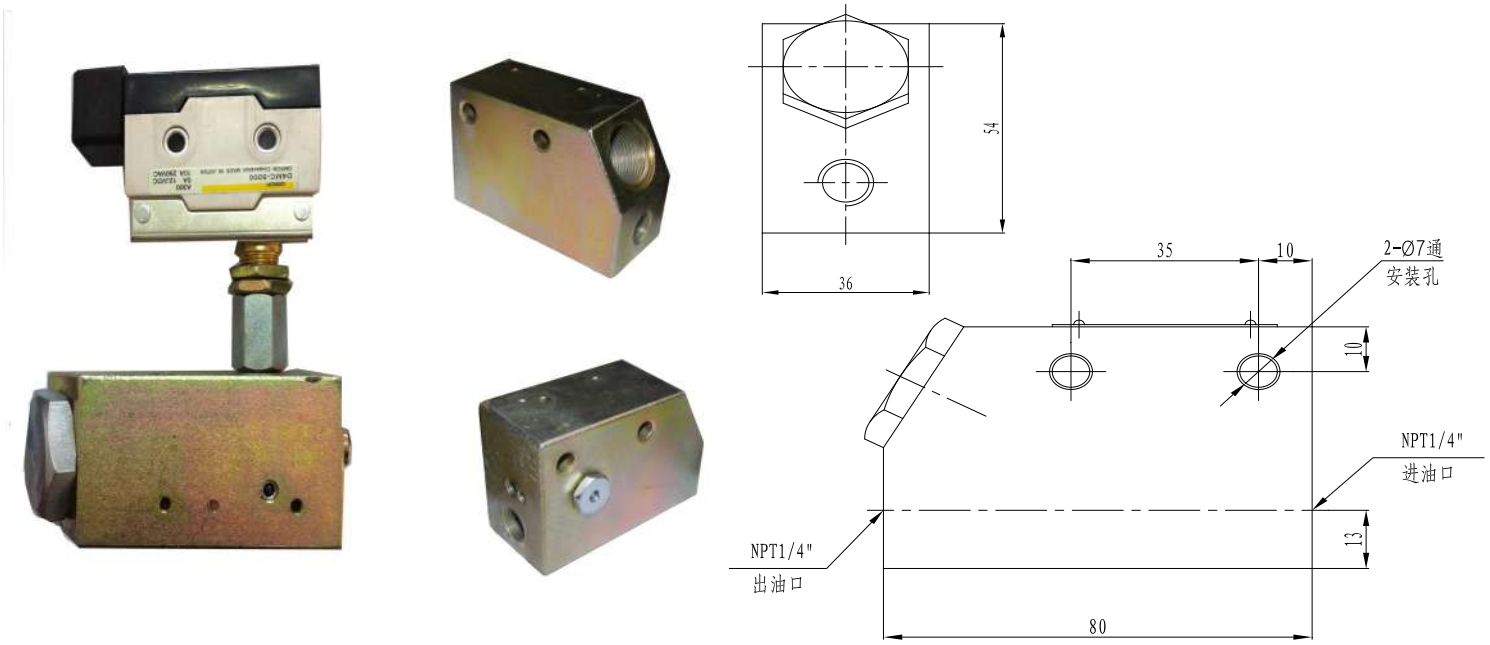
**6mm hose-----1.2-3.5M in length**

**Option: Indiator Pin or the micro-switch can be chose.**

# LS Grease Filter

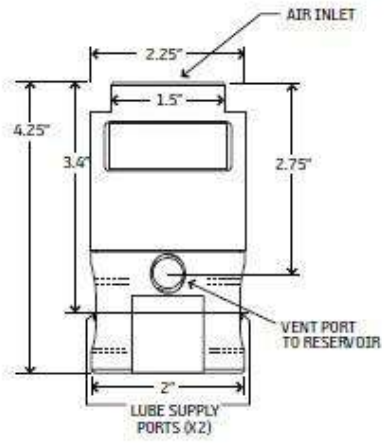
LS grease filters effectively remove grease impurities to ensure clean grease in lubrication systems.They have clogging function.Therefore, they are widely used in grease lubrication systems.

| Model | P.N. | Max Pressure(Mpa) | Filter（μm） | Remark |
|---|---|---|---|---|
| LS-02-106 | 20802 | 25 | 150 | Without clogging indicator |
| LS-02-206 | 20803 | | | With clogging indicator |
| LS-02-2065 | 20804 | | | With clogging & level switch |

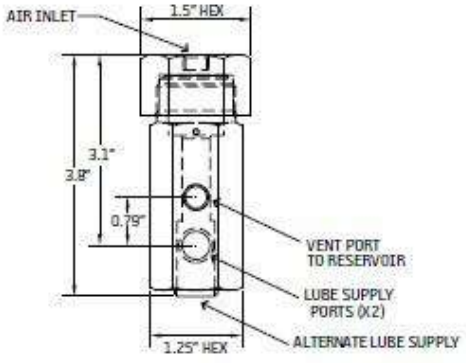



# Vent Valves (33080)

Vent Valve is used with injectors to relieve system pressure back to reservoir after a lubrication cycle.With a pneumatic operated drum pump, air pressure would be applied to the vent valve at the same time as the pump.When air pressure is relieved from pump and vent valve, lubricant moves past the valve seat and out vent port, and piped back to the drum.




VENT VALVE




MINI VENT VALVE

**Maximum Lubricant Pressure**: 3800psi (262bar)

**Maximum Air Pressure:** 120psi (8bar)

**Minimum Air Pressure**: 40psi (3bar)

| P.N. | Air inlet | Vent port | Lube supply(X2) | Alt supply | Recommended Lubricants |
|---|---|---|---|---|---|
| 33080 | 1/4NPTF | 1/4NPTF | 3/4NPTF | - | OIL TO NLGI # 2 GREASE |

# SL Series Injectors (P.N. 33081)

- Viton O-rings standard to protect against high heat & synthetic lubricants
- All injectors are shipped with vinyl cover caps standard
- Operating pressures to 1,000 psi
- Adjustable oil output
- Visual operating indicator pin
- Includes feed line fill fitting

## SL Series Specifications

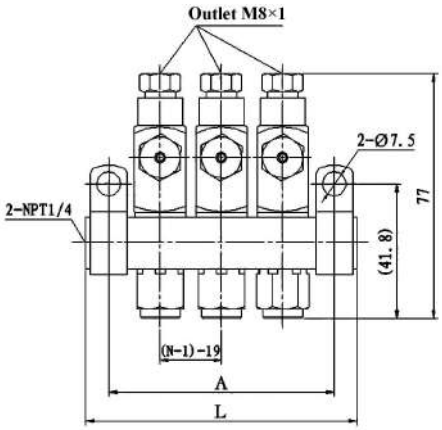
Operating Pressure :Max 1000 psi (69 BAR) ; Minimum 750 psi (52 BAR)
Lube Output: - Adjustable .050 cu. in. (.82 cc) - .500 cu. in. (8.2 cc)
Vent/Relief Pressure:150 psi (10 BAR) or less
Lubricants Oil - semi fluid grease
Seals Viton o-rings (70 durometer) & hytrel packings
Max Temperature: 200℉ (93℃)
Material :Steel with zinc and yellow chromate plating
Pipe Connections :Injector inlet - 1/2” NPT ;Injector outlet - 1/4” NPT

# BL Series Grease Adjustable Injectors

Single and manifold injectors are adjustable up to 0.003 cubic inches discharge per cycle.Each manifold includes two mounting clips and screws (1/4“–20 thread x 1/2” long hex head).

## Adjustment

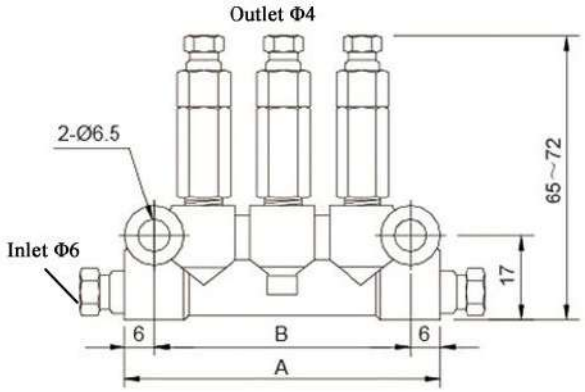
Injector output is controlled by the position of the indicator cap. The location of the cap determines the travel of the discharge piston. When the indicator is fully tightened onto the measuring chamber,lubricant output is decreased to a minimum. Retracting the indicator cap two full turns permits a maximum of .003 cu. in. to be discharged. Turning the indicator cap beyond two full turns will not increase lubricant output. When the individual injector has been adjusted to the desired output,tighten locknut against face of the indicator cap.
Check discharge output from injector if cap is adjusted to less than 1/2 turn from minimum.
Use a clean oil type and viscosity as recommended by machine manufacturer. Check compatibility with synthetic lubricants.




## Technical Data

| Model | P.N. | Number outlets | Work pressure | Viscosity | Discharge | A | L |
|---|---|---|---|---|---|---|---|
| | | N | MPa | $mm^2/s$ | mL/CY | mm | mm |
| BL | 33071 | 1 | 8.3~24.1 | 000#~2# | 0.016 ~0.131 | 32 | 44 |
| | 33072 | 2 | | | | 51 | 63 |
| | 33073 | 3 | | | | 70 | 82 |
| | 33074 | 4 | | | | 89 | 101 |

# DLX Single Injectors




| Model | P.N. | Number of outlets | Discharge (ml/cyc) | A | B |
|---|---|---|---|---|---|
| DLX | 36000-XX | 2 | 0.025/0.06/0.1/0.2/0.3/0.4/0.5 | 48 | 34-36 |
| | 36000-XXX | 3 | | 64 | 49-52 |
| | 36000-XXXX | 4 | | 80 | 65-68 |
| | 36000-XXXXX | 5 | | 96 | 79-84 |
| | 36000-XXXXXX | 6 | | 112 | 95-100 |
| | 36000-XXXXXXX | 7 | | 128 | 109-116 |
| | 36000-XXXXXXXX | 8 | | 144 | 123-132 |
| | 36000-XXXXXXXXXX | 10 | | 176 | 153-164 |

**Please indicate reference and discharge when ordering.**

| Discharge (ml/cyc) | 025 | 06 | 10 | 20 | 30 | 40 | 50 |
|---|---|---|---|---|---|---|---|
| Method of indication | 0.025 | 0.06 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 |

X: indicates flow rate code

T: indicates a complete assembly, i.e. including adaptors and compression sleeves.

If product P.N. is 36000T-XXX etc., T indicates that adaptor, compression sleeve and bushing shall be provided at inlets and outlets.

# Accessories

## Sleeve of tube

| Figure | Description | Material | P.N. | I.D. |
|---|---|---|---|---|
|  | Spiral sleeve of tube | PP | 330001 | 9 |
| | | | 330002 | 11 |
| | | PA | 330003 | 9 |
| | | | 330004 | 11 |
|  | Weaving sleeve of tube | PE | 330005 | 9 |
| | | | 330006 | 11 |
| | | PA | 330007 | 9 |
| | | | 330008 | 11 |

## High pressure tubes

| Figure | Description | P.N. | O.D. |
|---|---|---|---|
|  | hose working pressure 300bar-grease filled | 320000 | 6 |
| | hose working pressure 300bar-empty | 320001 | 6 |
| | hose working pressure 300bar-grease filled | 320002 | 9 |
| | hose working pressure 300bar-empty | 320003 | 9 |
| | hose working pressure 300bar-grease filled | 320004 | 11 |
| | hose working pressure 300bar-empty | 320005 | 11 |

## Reusable hose tail for hose

| Figure | Description | P.N. | Stud Φ |
|---|---|---|---|
|  | Hose end sleeve | 3210001 | 9mm |
| | Hose end sleeve | 3210005 | 11mm |
|  | Straight Hose end stud | 3210002 | 9mm |
| | Straight Hose end stud | 3210006 | 11mm |
|  | 90 elbow hose end stud | 3210003 | 9mm |
| | 90 elbow hose end stud | 3210007 | 11mm |
|  | 45 hose end stud | 3210004 | 9mm |
| | 45 hose end stud | 3210008 | 11mm |

## Tube clamp

| Figure | Description | P.N. | I.D. mm |
|---|---|---|---|
|  | Tube clamp with rubber lining | 330006 | 6 |
| | | 330008 | 8 |
| | | 330010 | 10 |
| | | 330011 | 11 |
| | | 330012 | 12 |
| | | 330015 | 15 |
| | | 330018 | 18 |
| | | 330020 | 20 |
| | | 330022 | 22 |
| | | 330024 | 24 |
| | | 330025 | 25 |
|  | Plastic tube clamp-single | 330008-6 | 6 |
| | | 330008-8 | 8 |
| | | 330008-9.5 | 9.5 |
| | | 330008-10 | 10 |
| | | 330008-12 | 12 |
| | | 330008-14 | 14 |
| | | 330008-16 | 16 |
| | | 330008-18 | 18 |
| | | 330008-20 | 20 |
| | | 330008-25 | 25 |
| | Plastic tube clamp-double | 330009-6 | 6 |
| | | 330009-8 | 8 |
| | | 330009-9.5 | 9.5 |
| | | 330009-10 | 10 |
| | | 330009-12 | 12 |
| | | 330009-14 | 14 |
| | | 330009-16 | 16 |
| | | 330009-18 | 18 |
| | | 330009-20 | 20 |
| | | 330009-25 | 25 |

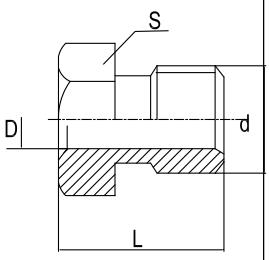
## 6mm compression Fittings for 9mm hose end

| Figure | Material | Description | P.N. | TubeΦ | d |
|---|---|---|---|---|---|
|  | steel | 90 elbow 6mm tube to M6×1 | 322001 | Φ6 | M6×1 |
| | | 90 elbow 6mm tube to M8×1 | 322002 | Φ6 | M8×1 |
| | | 90 elbow 6mm tube to M10×1 | 322003 | Φ6 | M10×1 |
|  | steel | Straight 6mm tube to M6×1 | 322004 | Φ6 | M6×1 |
| | | Straight 6mm tube to M8×1 | 322005 | Φ6 | M8×1 |
| | | Straight 6mm tube to M10×1 | 322006 | Φ6 | M10×1 |
|  | brass | Straight 6mm tube to M8×1 | 30086 | Φ6 | M8×1 |
| | | Straight 6mm tube to M10×1 | 30079 | Φ6 | M10×1 |
|  | brass | 90 elbow 6mm tube to M8×1 | 30116 | Φ6 | M8×1 |
| | | 90 elbow 6mm tube to M10×1 | 30173 | Φ6 | M10×1 |

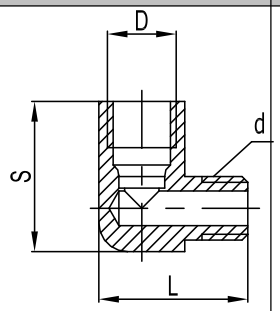
## 8mm compression Fittings for 11mm hose end

| Figure | Material | Description | P.N. | TubeΦ | d |
|---|---|---|---|---|---|
|  | steel | 90 elbow 11mm tube to M6×1 | 322007 | Φ8 | M6×1 |
| | | 90 elbow 11mm tube to M8×1 | 322008 | Φ8 | M8×1 |
| | | 90 elbow 11mm tube to M10×1 | 322009 | Φ8 | M10×1 |
|  | steel | Straight 11mm tube to M6×1 | 322010 | Φ8 | M6×1 |
| | | Straight 11mm tube to M8×1 | 322011 | Φ8 | M8×1 |
| | | Straight 11mm tube to M10×1 | 322012 | Φ8 | M10×1 |

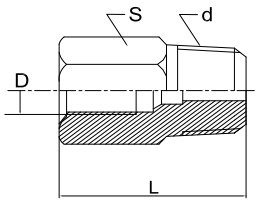
## Compression bushing

| Figure | Material | P.N. | Out diameter of pipe（D0） | D | d | L (mm) | S |
|---|---|---|---|---|---|---|---|
|  | steel | 28794 | Φ4 | Φ4.2 | M8×1 | 12 | 8 |
| | | 28795-1 | | | | 14 | |
| | | 28795-2 | | | | 17 | |
| | | 25934 | Φ6 | Φ6.1 | M10×1 | 13.5 | 10 |
| | | 28459 | Φ8 | Φ8.2 | M12×1 | 16 | 12 |
| | | 28460 | Φ10 | Φ10.2 | M16×1.5 | 18 | 16 |

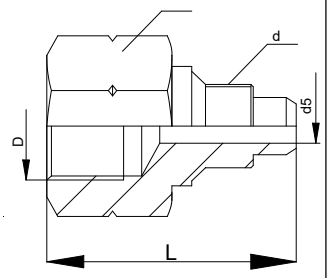
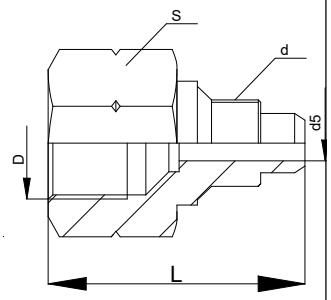
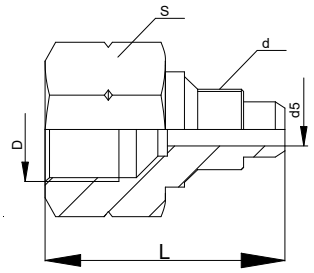
## 90º Elbow Coupling

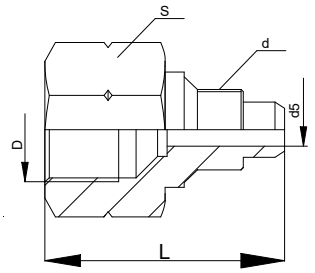
| Figure | Material | P.N. | Out diameter of pipe（D0） | D | d | L (mm) | S |
|---|---|---|---|---|---|---|---|
|  | steel | 28455 | Φ6 | M10×1 | M8×1 | 22 | 22×14 |
| | | 28457 | | | M10×1 | 23 | |
| | | 28456 | Φ8 | M12×1 | M8×1 | 24 | 23×16 |
| | | 28458 | | | M10×1 | 25 | |

## Extended Straight coupling

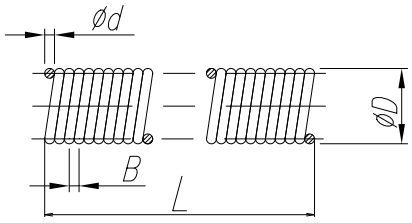
| Figure | P.N. | D | d | L | S |
|---|---|---|---|---|---|
|  <br>  | 28661 | Z1/8 | G1/8 | 22 | 14 |
| | 28662 | Z1/8 | G1/8 | 35 | 14 |
| | 28663 | Z1/8 | G1/8 | 75 | 16 |

## Reducer coupling

| Figure | Material | P.N. | D | d | S | L | d5 |
|---|---|---|---|---|---|---|---|
|  | Steel | 25424-1 | M10×1 | M8×1 | 13 | 27 | Φ3.9 |
| | | 25424-2 | M12×1.5 | | 16 | 32 | |
| | | 25425-1 | M10×1 | M10×1 | 13 | 28 | Φ5.6 |
| | | 25425-2 | M12×1.5 | | 16 | 33 | |
| | | 25425-3 | M14×1.5 | | 18 | | |
| | | 25425-4 | M16×1.5 | | 21 | | |
| | | 25425-5 | M18×1.5 | | 24 | | |
|  | | 25427-1 | M10×1 | NPT1/8 | 13 | 22 | Φ6 |
| | | 25427-2 | M12×1.5 | | 16 | 27 | |
| | | 25427-3 | M14×1.5 | | 18 | | |
| | | 25427-4 | M16×1.5 | | 21 | | |
| | | 25428-1 | M10×1 | NPT1/4 | 15 | 26 | Φ8 |
| | | 25428-2 | M12×1.5 | | 16 | 31 | |
| | | 25428-3 | M14×1.5 | | 18 | | |
| | | 25428-4 | M16×1.5 | | 21 | | |
| | | 25428-5 | M18×1.5 | | 24 | | |
| | | 25429-1 | M10×1 | R1/8 | 13 | 22 | Φ5.5 |
| | | 25429-2 | M12×1.5 | | 16 | 27 | |
| | | 25429-3 | M14×1.5 | | 18 | | |
| | | 25429-4 | M16×1.5 | | 21 | | |
| | | 25430-1 | M10×1 | R1/4 | 15 | 26 | Φ8 |
| | | 25430-2 | M12×1.5 | | 16 | 31 | |
| | | 25430-3 | M14×1.5 | | 18 | | |
| | | 25430-4 | M16×1.5 | | 21 | | |
| | | 25430-5 | M18×1.5 | | 24 | | |
|  | | 28451-1 | M10×1 | NPT1/8 | 13 | 22 | Φ4 |
| | | 28451-2 | M12×1 | | 16 | 24 | Φ6 |
| | | 28452-1 | M10×1 | R1/4 | 15 | 24 | Φ4 |
| | | 28452-2 | M12×1 | | 16 | 26 | Φ6 |
| | | 28452-3 | M16×1.5 | | 21 | 28 | Φ7 |
| | | 28454-1 | M10×1 | NPT1/4 | 14 | 24 | Φ4 |
| | | 28454-2 | M12×1 | | 16 | 26 | Φ68 |
| | | 28454-3 | M16×1.5 | | 18 | 28 | Φ7 |

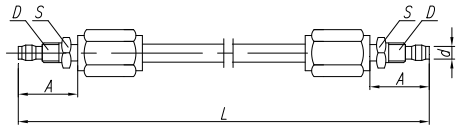
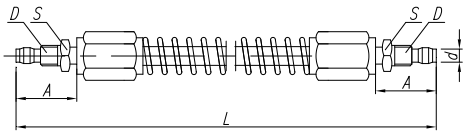
| Figure | Material | P.N. | D | d | S | L | d5 |
|---|---|---|---|---|---|---|---|
|  | Steel | 28461 | M10×1 | M8×1 | 12 | 27 | Φ3.9 |
| | | 28462 | M12×1 | M10×1 | 14 | 30 | Φ5.6 |
| | | 28472-1 | M8×1 | R1/8 | 11 | 20 | Φ3.4 |
| | | 28472-2 | M10×1 | | 12 | 22 | Φ4 |

## Spring cover

| Figure | P.N. | Tube (mm) | d (mm) | Material | D (mm) | B (mm) | L （mm） | Surface |
|---|---|---|---|---|---|---|---|---|
|  | 30131 | Φ4 | 0.6 | 65 | 4.5 | Tight | 6000 | Write Zinc |
| | 30132 | Φ6 | 0.6 | 65 | 6.5 | Tight | 6000 | Write Zinc |
| | 30220 | Φ6 | 0.6 | 65 | 6.5 | 2.4 | 5000 | Black |
| | 30133 | Φ8 | 0.6 | 65 | 8.8 | 2.4 | 5000 | Write Zinc |
| | 30217 | Φ9 | 0.8 | 65 | 9.8 | Tight | 5000 | Write Zinc |
| | 30218 | Φ11 | 1 | 65Mn | 11 | 5 | 5000 | Write Zinc |
| | 30219 | Φ12 | 0.8 | 65 | 12.5 | Tight | 2000 | Write Zinc |

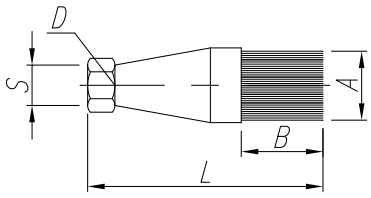


## High pressure flexible assemblies

| Figure | P.N. | D | d | S | A | L | Working pressure (MPa) |
|---|---|---|---|---|---|---|---|
|  | 30379-400 | M10×1 | 6 | 10 | 27.5 | 400 | 25 |
| | 30379-500 | | | | | 500 | |
| | 30379-1200 | | | | | 1200 | |
| | 30208-600 | M12×1 | 8 | 12 | 30 | 600 | 24 |
| | 30208-1000 | | | | | 1000 | |
|  | 30490-400 | M10×1 | 6 | 10 | 27.5 | 400 | 25 |
| | 30490-500 | | | | | 500 | |
| | 30490-1200 | | | | | 1200 | |
| | 30376-600 | M12×1 | 8 | 12 | 30 | 600 | 24 |
| | 30376-1000 | | | | | 1000 | |



## Brush

| Figure | P.N. | D | L | S | A | B |
|---|---|---|---|---|---|---|
|  | 30102 | M8×1 | 58 | 13 | 20 | 20 |



**Note:We can make based on our customer’s requirement.**