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Hand Lubricator

Hand lubricators are spring-return piston pumps. By pushing the operating handle down, the piston raises and compresses a spring. Releasing the handle discharges oil into the system. Oil viscosity does not affect discharge volume, but may affect system pressure.

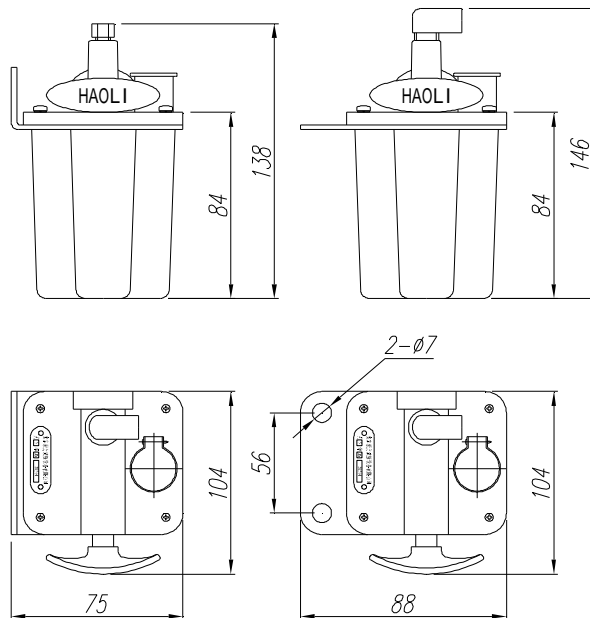
L series, SH series and Y Series Lubricators are used in SLR lubricationsystems. Y Series Lubricators are single-action, manual piston pumps used to actuate fixed output positive displacement oil injectors. The unit can be used with series SBJ and ZBJ injectors. The pump incorporates an internal maximum pressure relief valve and a flow control valve to relieve distribution line pressure. This is required for the normal operation of positive displacement oil injectors.

The lubricators are widely used in machine tools, textiles, plastics fabrication, packing and forging machinery, etc

L Hand Lubricator



10003



Model	P.N.	Structure	Rated injection pressure (MPa)	Discharge per stroke (ml)	Lubrication points	Filtrability U	Reservoir(ml)	Viscosity(mm ² /S)	Wgt(kg)	Outlet thread	Mounting bracket
L-3×0.2	10003M	Handle	0.35	3	1~40	100	180	21~68	0.43	M8×1	Middle
L-3×0.2	10003L										Left
L-3×0.2	10003R										Right

Package: 110mm×85mm×150mm / unit----- Carton

460mm×450mm×328mm / 40 pcs -----Carton



20501



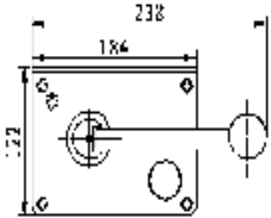
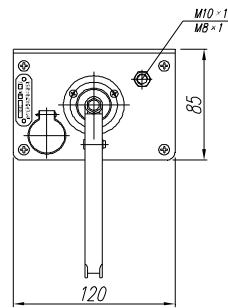
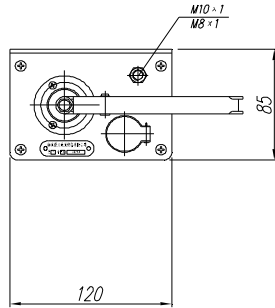
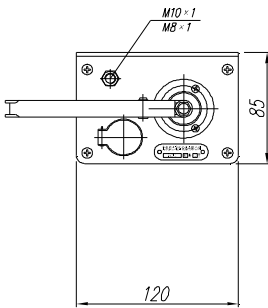
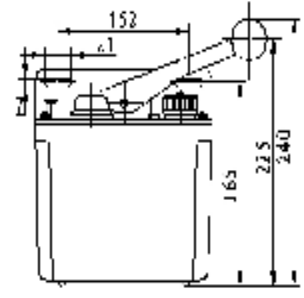
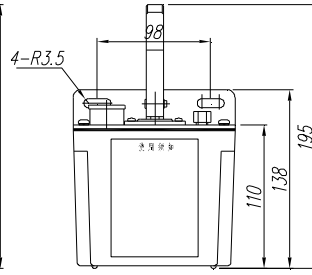
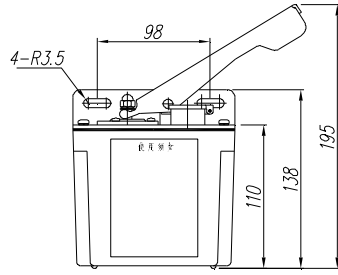
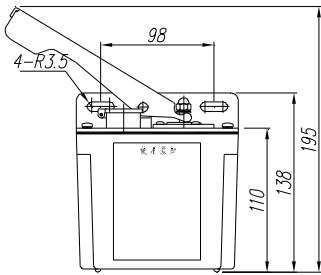
20502



20503



20508



SH-2 Size

SH-0.5 Size

Model	P. N.	Structure	Rated pressure (MPa)	Discharge per stroke (ml)	Lubrication points	Filtrability (U)	Reservoir (ml)	Viscosity (mm ² /S)	Wgt(kg)	Outlet thread
SH-0.5	20501	Left	0.4	5	1~50	40	0.5	21~210	1	M8×1
SH-0.5	20502	Right								
SH-0.5	20503	Middle								
SH-1	20504	Left	0.32	1~18	1~50	40	1	21~210	1.5	M8×1& M10×1
SH-1	20505	Right								
SH-1	20506	Middle								
SH-2	20507	Left	0.32	1~18	1~50	40	2	21~210	2	M8×1& M10×1
SH-2	20508	Right								
SH-2	20509	Middle								

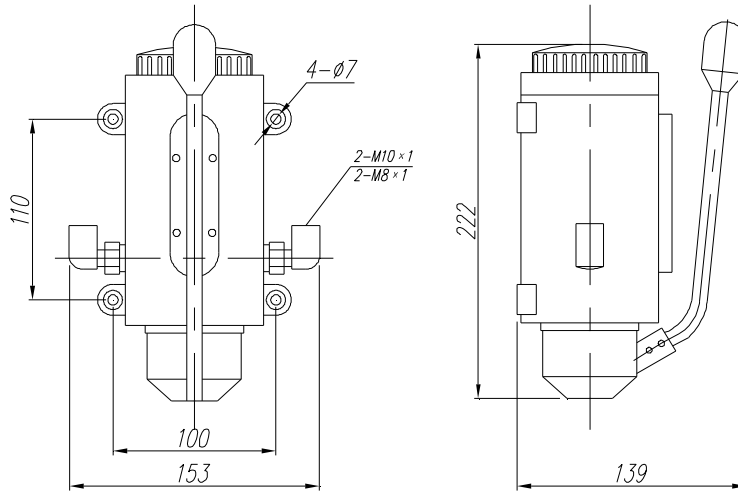
Package: (0.5L) 520mm×285mm×435mm / 20 Pcs----carton

(1L) 420mm×310mm×290mm / 4 Pcs----carton

(2L) 530mm×270mm×350mm / 3 Pcs----carton



20542



Model	P.N.	Structure	Rated injection pressure (MPa)	Discharge per stroke (ml)	Lubrication points	Filtrability(U)	Reservoir(ml)	Viscosity(mm ² /S)	Wgt(kg)	Outlet thread/direction
Y-6.3×0.6	20541	Handle	1.5~2.0	6	1~50	150	600	32~72	1.84	M8×1/left
	20542									M8×1/right
	20543									2-M8×1

Package: 220mm×150mm×155mm / 1pcs----- carton

500mm×465mm×335mm / 12 pcs-----carton

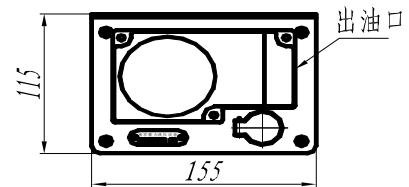
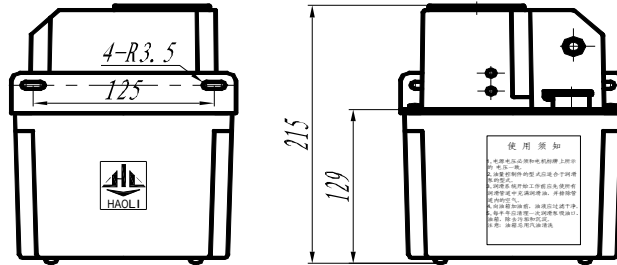
Electric Lubricator

DZ Piston lubricator

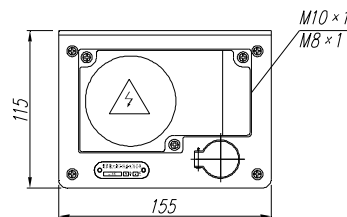
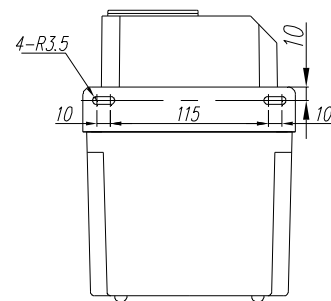
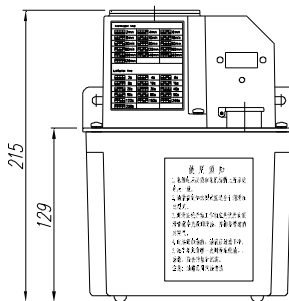
DZ lubrication includes motor-driven and piston pump. A lubrication low switch is provided for signaling the low level condition. The micro-centre controls the motor work intermittently. The cam is driven by the motor to discharge. The motion develops a controlled suction and discharge action to each lube point. These lubricators are widely used in machine tools, textiles, plastics industry, packing, printing, carpenter and forging machinery.



20301



20302



Model	P.N.	Discharge per stroke	Controller	Pressure	Viscosity	Voltage	Power	Reservoir	Wgt
DZ-0.5×1	20301	0.5ml	None	1.4Mpa	20~320	220VAC	14W	1L	2.5kg
DZ-0.5×1K	20302		BMTC						2.5kg
DZ-0.5×2	20303	0.5ml	None	2.5Mpa	20~320	220VAC	14W	2L	3kg
DZ-0.5×2K	20304		BMTC						3kg

Note: Optional outlet threads M8 × 1, M10 × 1, M12 × 1 and NPT1/8 are available for your choice.

Please specify the outlet and reservoir and voltage at time of order

Our raw material of the reservoir is plastic and if you need the metal reservoir, please specify it.

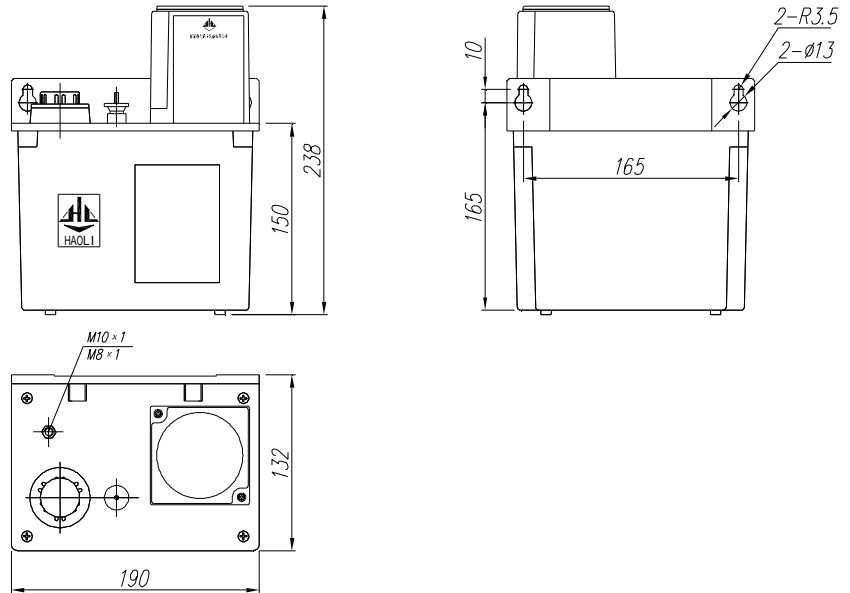
Package: (1L) 420mm×310mm×290mm/4 Pcs----carton

(2L) 530mm×270mm×350mm/3 Pcs----carton

TH Series Lubricators are suitable for the SLR system and include a motor-driven, spring discharge piston pump. Lubricant is distributed to each lube point proportionally through meter units. Several supply periods are available for your choice. Discharge per stroke is adjustable and low level alarm function is provided. These lubricators are widely used in machine tools, textiles, plastics industry, packing, printing, carpenter and forging machinery.



20401



Model	P.N.	Voltage(V)	Motor(W)	Max discharge pressure (MPa)	Discharge per stroke (ml)	Discharge cycle (min)	Viscosity(mm ² /S)	Reservoir(l)	Level switch	Wgt(kg)
TH-8×2	20401	AC 220	14	0.3	8	37.5	32~750	2L	Yes	1.4
TH-16×2	20402				16	18.7				
TH-25×2	20403				25	12				
TH-50×2	20404				50	6				

Note: Optional outlet threads M8 × 1, M10 × 1, M12 × 1 and NPT1/8 are available for your choice.

Please specify the outlet and reservoir and voltage at time of order.

Our raw material of the reservoir is plastic and if you need the metal reservoir, please specify it.

Package: 190mm × 145mm × 280mm /Pcs---carton

460mm × 430 × 330/Pcs---carton

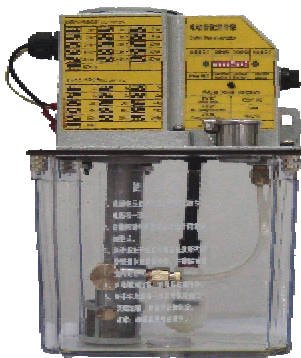
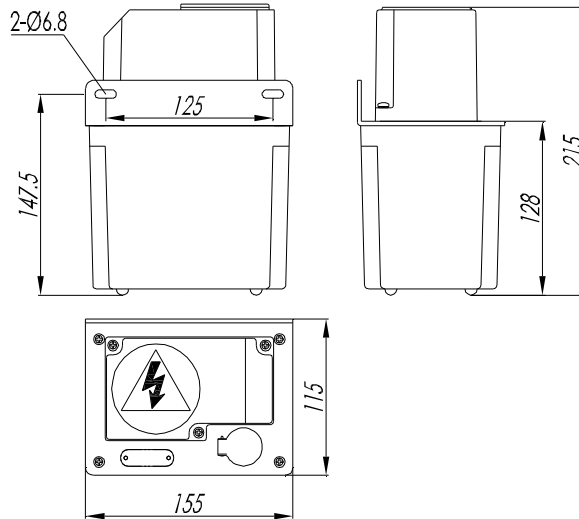
DC series gear pump

DC lubricator includes a motor-driven gear pump of reasonable structure, excellent performance, complete functions, wide applicability, good self absorption and high volume efficiency. Reservoir capacity is in 2L and 3L. This kind of pump is equipped with level switch and pressure switch can be provided according to different applications. These are connected with BMTC or HLTC programmed controller on the pump, or programmed control system on main user equipment to control and monitor oil level in reservoir, supply system pressure and setting of lubrication cycle.

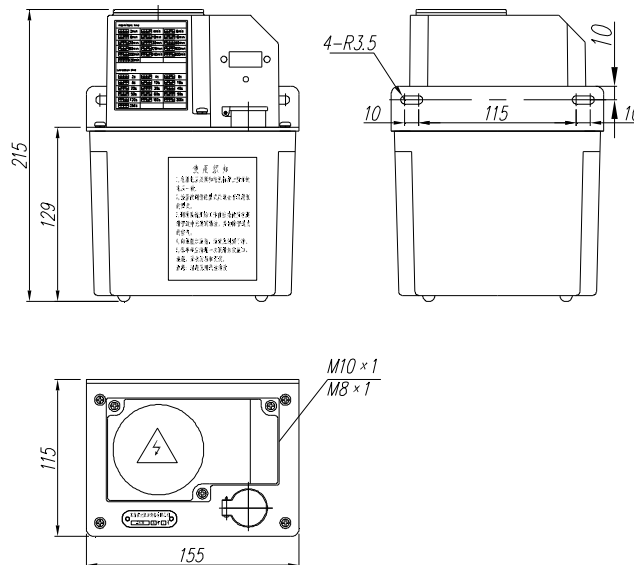
DC lubricator is widely used in centralized lubrication systems for machine tools, plastics, textiles, light industry, printing, auto escalators and conveyers among other mechanical equipment.



20110(without timer)



20111(with timer)



Model	Part	Voltage	Power	Pressure	Discharge	Control	Reservoir	Level switch	system	Wgt (kg)
DC-110×1	20110	AC 220	15W	2.5Mpa	108ml/min	None	1	Yes	SLR	2.5
	20110D					None			PDI	2.5
DC-110×1K	20111					Yes			SLr	2.5

Note: Optional outlet threads M8 × 1, M10 × 1, M12 × 1 and NPT1/8 are available for your choice.

Please specify the outlet and reservoir and voltage at time of order

Our raw material of the reservoir is plastic and if you need the metal reservoir, please specify it.

Package: 420mm × 310mm × 290mm/4 pcs----carton

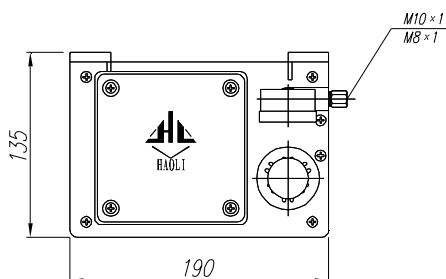
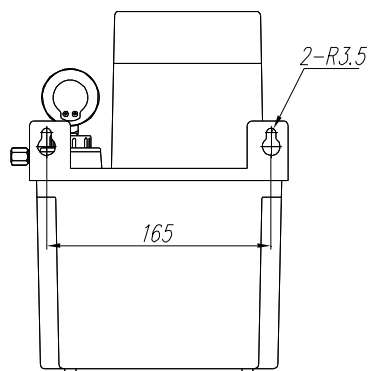
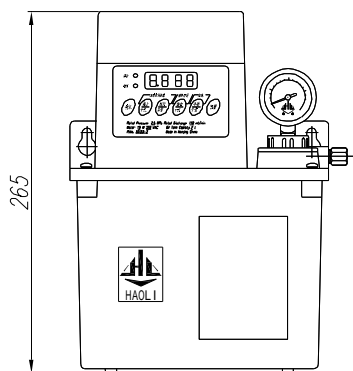
DC-2L Electrical lubrication pump



20121(20121D)



20124(20124D)



Model	P.N.	discharge (ml/min)	controller	Pressure (MPa)	viscosity (mm ² /s)	voltage (V)	Power (W)	Reservoir (L)	System
DC-110×2	20121	108	None	2.5	20~320	220 AC	20	2	SLR
	20121D		None						PDI
	20124		Yes						SLR
	20124D		Yes						PDI

Note: Optional outlet threads M8 × 1, M10 × 1, M12 × 1 and NPT1/8 are available for your choice.

Please specify the outlet and reservoir at time of orde

Our raw material of the reservoir is plastic and if you need the metal reservoir,please specify it.

Package: 3KG/Pcs 530mm×270mm×350mm/3 Pcs---carton

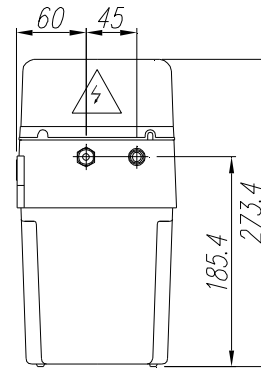
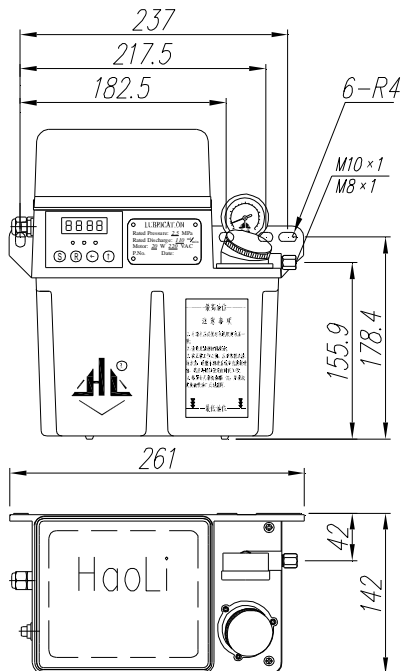
DC-3L Electrical Lubrication pump



20131(20131D)



20132 (20132D)



Model	P.N.	discharge (ml/min)	controller	Pressure (MPa)	viscosity (mm ² /s)	voltage (V)	Power (W)	System
DC-110×3	20131	108	None	2.5	20~320	220AC	20	BJ
	20131D		None					DL
DC-110×3K	20132		HLTC					BJ
	20132D		HLTC					DL

Note: Optional outlet threads M8 × 1, M10 × 1, M12 × 1 and NPT1/8 are available for your choice.

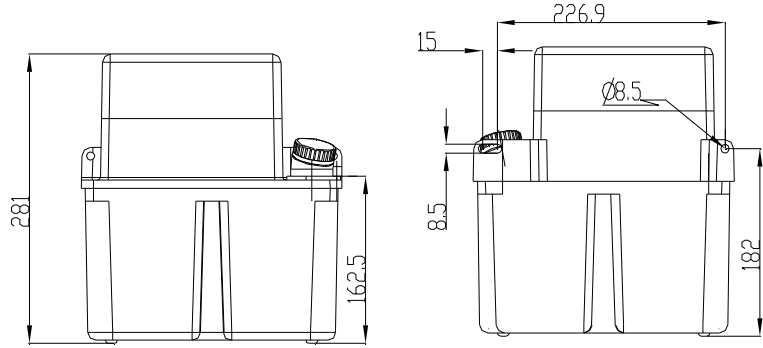
Please specify the outlet and reservoir at time of orde

Our raw material of the reservoir is plastic and if you need the metal reservoir,please specify it.

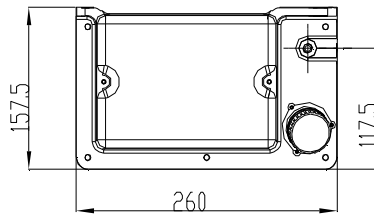
Package: Carton 550mm×310mm×340mm/3 Pcs **Weight:** 4kg/Pcs



20141



20142



Model	P.N.	Voltage (V)	Power (W)	Pressure (MPa)	discharge (ml/min)	controller	Reservoir (L)	System	weight
DC-220×4	20141	AC 220	20	2.5	216	None	4	BJ	4.8
	20141D					None		DL	
DC-220×4K	20142					HLTC-1		BJ	
	20142D					HLTC-1		DL	

Note: Optional outlet threads M8 × 1, M10 × 1, M12 × 1 and NPT1/8 are available for your choice.

Please specify the outlet and reservoir at time of order

Our raw material of the reservoir is plastic and if you need the metal reservoir, please specify it.

Package: carton 630mm × 350mm × 350mm/3Pcs Weight: 5kg/Pcs

DC-6L Electrical lubrication pump



DC-110x6 6liters

Model	P.N.	Discharge	Controller	Reservoir	Pressure	Viscosity	Voltage	Power	Control unit
DC-220S	20100	108 (ml/min)	None	6L	2.5 (MPa)	20~320 (mm ² /s)	220 VAC &110VAC &24VDC	25 W & 30W	Meter unit
	20100D		None	10L					PDI system
DC-220ST	20101	216 (ml/min)	HLTC-1	20L					Meter unit
	20101D								

Note: Optional outlet threads M8 × 1, M10 × 1, M12 ×1 and NPT1/8 are available for your choice. Please specify the outlet and reservoir at time of order.

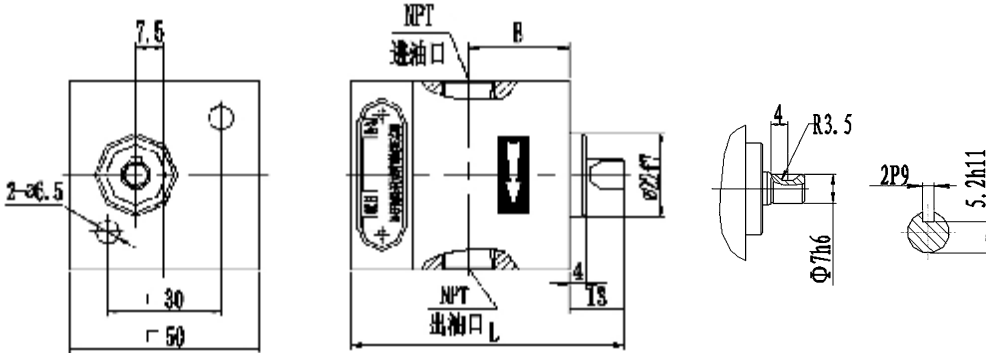
For example:20100(216)-10L-24V(reservoir:10L and without timer and 216ml/min and DC24V for the meter unit)
20101D(108)-20L(reservoir:20L and with timer and 108ml/min and AC220V for the PDI system)

Weight: 6.8kg/piece Carton size:355mm×270mm×280mm/1 piece

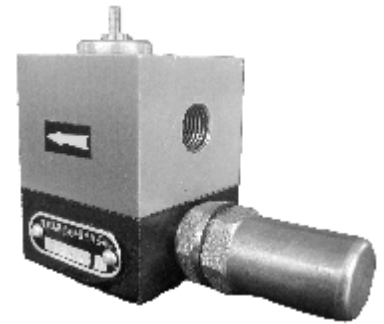
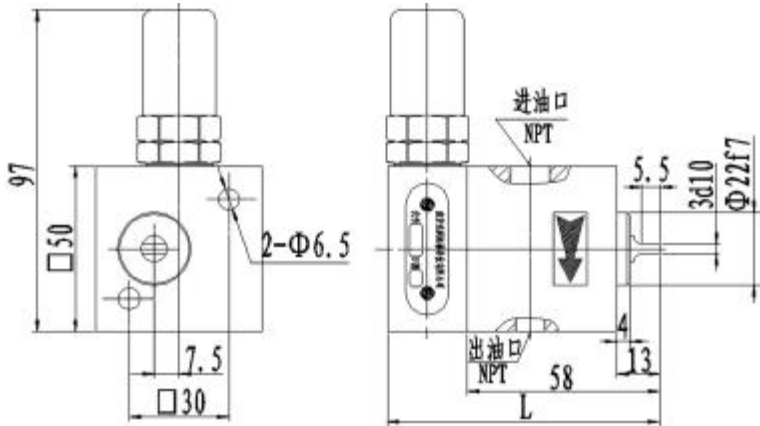


CB Gear Pump

The CB Series are low pressure, high speed gear pumps with a small discharge oil pump of small size, light weight, smart outline and wide rotation speed range. The product is widely used in continuous and intermittent supply lubrication systems for machine tools, textile machinery, light industries and other small machineries.



CB-1.6 Type



CB-1.6(relief valve)

Model	P.N.	Direction	Relief Valve	Pressure (Mpa)	Discharge (mL/r)	Motor (r/min)	L (mm)	B (mm)	Inlet	Outlet	Viscosity				
CB-1.0	20201	Clockwise	None	1.6	1.0	1000 ~2100	72	26	NPT1/4	NPT1/8	N20~ N460				
	20201N	Anti-clockwise					82								
	20201Y	Clockwise	Yes				72								
	20201NY	Anti-clockwise					82								
CB-1.3	20202	Clockwise	None	2.5	1.6		72					35	NPT1/4	NPT1/4	N20~ N460
	20202N	Anti-clockwise					82								
	20202Y	Clockwise	Yes				72								
	20202NY	Anti-clockwise					82								
CB-1.6	20203	Clockwise	None	2.5	1.6	72	35	NPT1/4	NPT1/4	N20~ N460					
	20203N	Anti-clockwise				82									
	20203Y	Clockwise	Yes			72									
	20203NY	Anti-clockwise				82									
CB-2.8	20204	Clockwise	None	2.8	2.8	89					35	NPT1/4	NPT1/4	N20~ N460	
	20204N	Anti-clockwise				89									
	20204Y	Clockwise	Yes			89									
	20204NY	Anti-clockwise				89									

BB directional Trochoid Pump

This pump has a simple structure, low noise, a stable oil supply, strong self absorption and high speed characteristics.

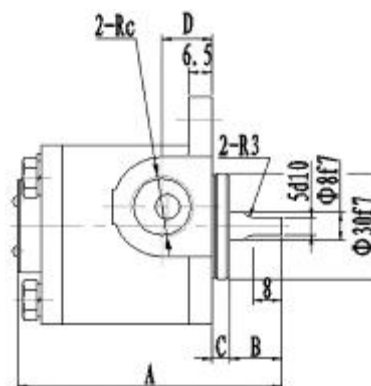
This product is suitable for low-pressure, continuous, and intermittent lubrication for machine tools, textile machinery, printing machinery, and light industrial machinery, etc.



BB



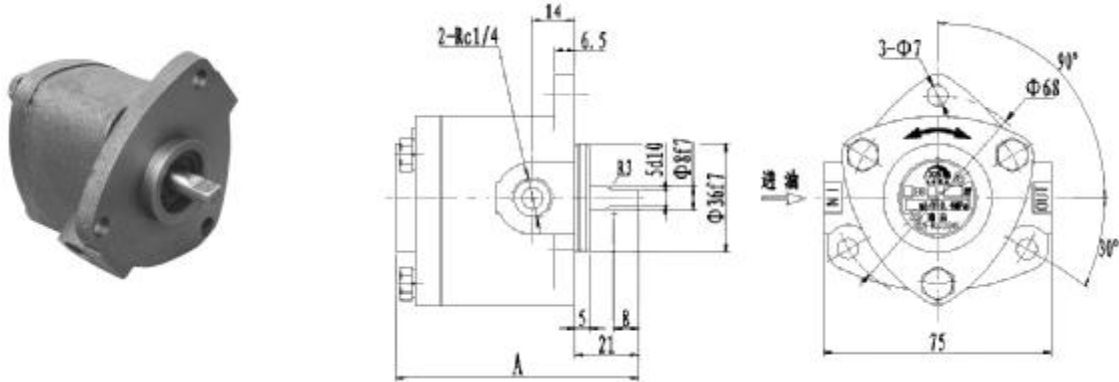
BB(relief valve)



Model	P.N.	Direction	Relief valve	Rated pressure	Discharge	Speed range (r/m)	A	B	C	D	E	Thread	Viscosity
							Mm						
BB-1.0	20151	Clockwise	None	0.40 MPa	1.0 mL/r	500~ 2000	57					Rc1/8	N20 ~ N320
	20151N	Anti-clockwise											
	20151Y	Clockwise	Yes										
	20151N	Anti-clockwise											
BB-1.6	20152	Clockwise	None		1.6 mL/r	300~ 2000	60	11.5	8	12	3	Rc1/4	
	20152N	Anti-clockwise											
	20152Y	Clockwise	Yes										
	20152N	Anti-clockwise											
BB-2.5	20153	Clockwise	None		2.5 mL/r	300~ 2000	64					Rc3/8	
	20153N	Anti-clockwise											
	20153Y	Clockwise	Yes										
	20153N	Anti-clockwise											
BB-3.2	20154	Clockwise	None	3.2 mL/r	300~ 2000	68					Rc3/8		
	20154N	Anti-clockwise											
	20154Y	Clockwise	Yes										
	20154N	Anti-clockwise											
BB-4.5	20155	Clockwise	None	4.5 mL/r	300~ 2000	74	14.5	5	14	5	Rc3/8		
	20155N	Anti-clockwise											
	20155Y	Clockwise	Yes										
	20155N	Anti-clockwise											
BB-5.0	20156	Clockwise	None	5.0 mL/r	300~ 2000	76					Rc3/8		
	20156N	Anti-clockwise											
	20156Y	Clockwise	Yes										
	20156N	Anti-clockwise											

KBBA Bi-directional Trochoid Pump

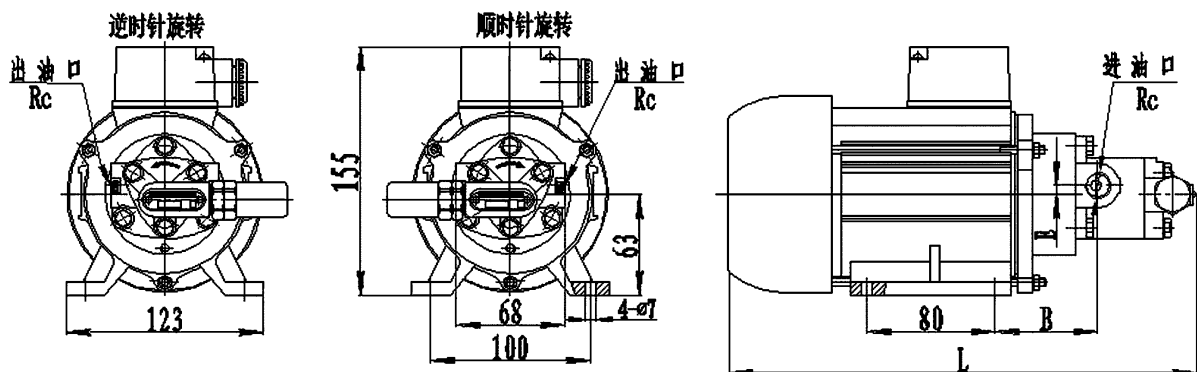
Inlet and outlet of the pump are fixed, while the shaft rotation can be changed.



Model	P.N.	Rated pressure (MPa)	Discharge (mL/r)	Speed range (r/min)	A (mm)	Inlet/outlet	Viscosity
KBBA-1.6	20157	0.40	1.6	300~200	64	Rc1/4	N20~ N320
KBBA-2.5	20158		2.5		68		
KBBA-4.5	20159		4.5	0	80		

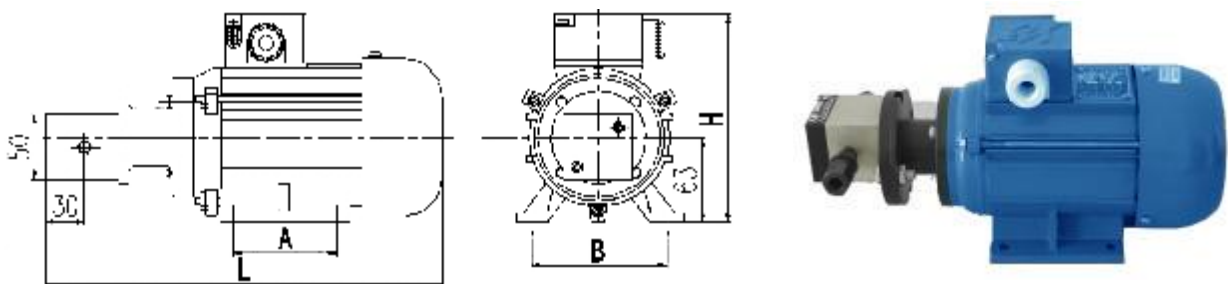
BBZ Trochoid Pump Assembly

The BBZ trochoid pump assembly includes a motor, a trochoid pump, and a relief valve. This pump assembly has a simple structure, low noise levels, stable oil supply, strong self absorption and high speed characteristics. The product is suitable for low pressure continuous and intermittent supply lubrication for machine tools, textile machinery, printing machinery and light industrial machinery, etc.



Model	P.N.	Direction	Relief valve	Voltage (VAC)	Power (W)	Speed Range (r/min)	discharge (L/min)	Rated Pressure (Mpa)	L (mm)	B (mm)	E (mm)	Inlet/ outlet	Viscosity
BBZ-1	20170	Clockwise	Yes	380	120	1400	1.4	0.1~0.4 (Adjustable)	271	61	3	Rc 1/8	N20 ~ N230
	20170N	Anti-clockwis					2.24		274				
	20171	Clockwise							3.5			278	
	20171N	Anti-clockwis					4.48					283	
	20172	Clockwise							7.0	64	5.5	Rc 3/8	
	20172N	Anti-clockwis											
	20173	Clockwise											
	20173N	Anti-clockwis											
	20174	Clockwise											
	20174N	Anti-clockwis											
BBZ-2	20170-1	Clockwise	无	380	120	1400	1.4	0.4 0.5	255	61	3	Rc 1/8	
	20170N	Anti-clockwis					2.24		258				
	20171-1	Clockwise							3.5			262	
	20171N	Anti-clockwis					4.48					267.5	
	20172-1	Clockwise							7.0	64	5.5	Rc 3/8	
	20172N	Anti-clockwis											
	20173-1	Clockwise											
	20173N	Anti-clockwis											
	20174-1	Clockwise											
	20174N	Anti-clockwis											

CBZ Gear Pump Assembly



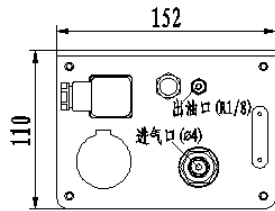
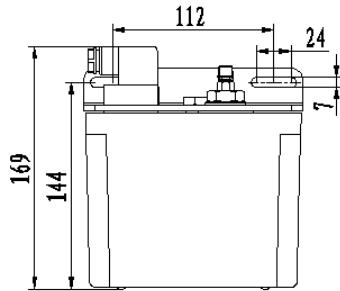
Model	P.N.	Voltage	Power	Range	Discharge	Pressure	L	H	A	B	Viscosity
		VAC	W	r/min	L/min	MPa					
CBZ	20175	380	180	1400	2.24	2.5	310	160	80	100	N20~ N230
	20176				3.92	2.5	305	160	80	100	

AIR Pneumatic Pump

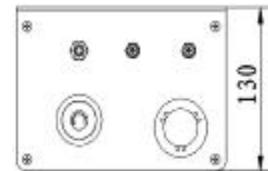
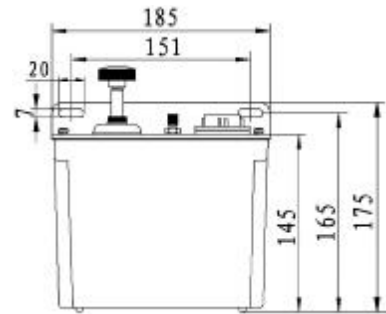
AIR-1 Pneumatic Pump



21011



21013



Model	P.N.	Pressure	discharge	Cycle	Input pressure	Ratio	Voltage	Reservoir	Viscosity
		MPa	mL/CY	Cyc/min	MPa		V	L	
AIR-1	21011	≥3.2	1.4	15	0.4~0.8	8:1	/	1	N20~ N200
	21012		2.6					2	
	21013	≥0.4	0~4	30		1:1			

AIR-5 Air Pump

An AIR-5 lubricator is a spring-loaded piston pump driven by compressed air. The lubricator is suitable for a single line resistance lubrication system (SLR) or a positive displacement injector lubrication system (PDI). Injection pressure is determined by the pressure of the compressed air, while discharge is determined by piston stroke and frequency. Lubricant is distributed to each lube point by distributors. SM programmed controllers fitted or programmed control system on user equipment can adjust injection periods and send low level alarms.



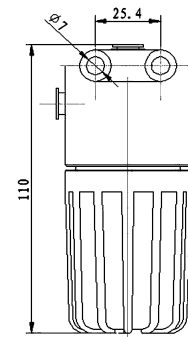
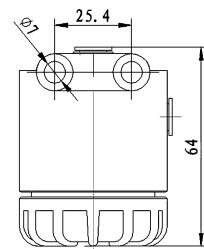
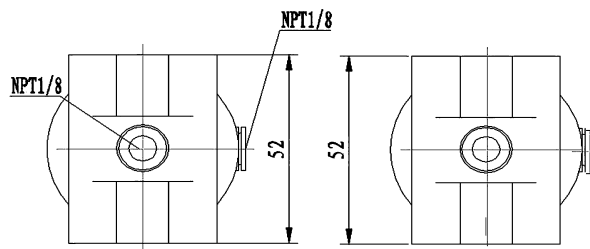
Model	P.N.	Pressure	Discharge	Cycle per minute	Ratio	Reservoir	Controller
		MPa	mL/Cyc	Cyc/min		L	
AIR-5	21051	1.6~3.2	0~10(可调)	20	4:1	4	Yes

Please specify the outlet and reservoir and voltage at time of orde.

SLC In-line Pressure Filters

SLC in-line pressure filters are compact and easily serviced die-cast filters. They are available in two sizes for 1" and 3" deep disposable porous metal filter elements. Two grades of sintered metal filtration are offered with 25 and 125 micron (nominal) particle protection. The bowl can be quickly disassembled by hand for inspection and replacement of filters.

The filter are suitable for continuous delivery and cycle operation conditions.



Model	P.N.	Pressure (Mpa)	Discharge (L/min)	Filter (u)
SLC-05	35207	2.5	0.5	25
SLC-70	35208		7.0	125
SLC-16	35209		1.6	25
SLC-100	35210		10.0	125

Injector

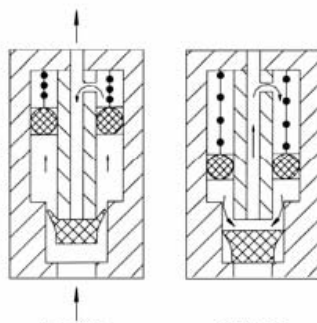
Single Injectors

The single-DLX series injectors are pressurized type positive displacement injectors. They inject oil when the system is pressurized, and are filled with oil when system pressure is relieved. The single-DLX series are adapted for volumetric periodic lubrication systems and can send fixed predetermined amounts of lubricant to lube points. They are suitable for periodic lubrication systems of 1.75-3.5MPa working pressure and have high distribution precision.



Principle schematics

As system pressure builds, oil is forced into. The disc moves forward to hollow the piston rod and close the opening. The increasing pressure collapses the disc and forces oil into the inlet chamber, around the disc seal. Disc and piston assembly compresses and the advancing piston displaces oil in the outlet chamber to the lube point. Piston assembly continues to travel towards the outlet until the piston reaches the shoulder of the outlet chamber.



Pressurized discharge Pressurized deposited

Technical data and Order

Sketch	P.N.	L	S	Discharge (ml/cyc)	A	B
	34000-XT	52	12	0.025 0.06 0.10	M8×1	R1/8
	35000-XT	62	12	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.

Please indicate reference and discharge when ordering.

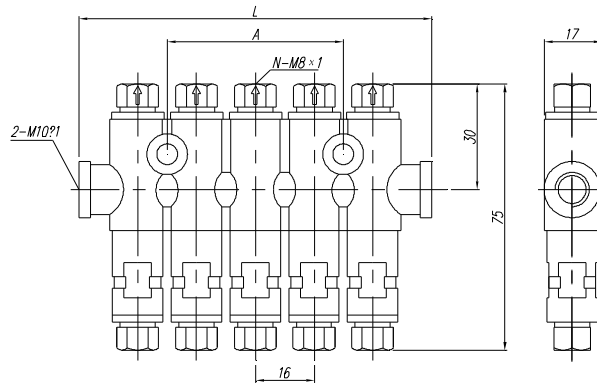
Discharge (ml/cyc)	025	06	10	20	30	40	50
Method of indication	0.025	0.06	0.1	0.2	0.3	0.4	0.5

For instance:

34000-20-----34000 is product P.N., 20 is discharge indicating 0.2ml/injection;
34000-20T----Indicating 34000-20 with adaptors and compression sleeve.

DLX Manifold Injectors

The DLX series injectors are positive displacement injectors (PDI). These injectors are filled when the system is pressurized, and inject when the system pressure is relieved. This product is suitable for volumetric periodic lubrication systems with a working pressure of 1.75-2.5Mpa. These injectors deliver a fixed, predetermined quantity of lubricant to each lubrication point. The DLX series is available with 2, 3, 4 and 5 outlets. Discharge of each outlet can be freely selected within a specified range. An unused outlet may be blocked with a special plug. This product is widely used in lubrication systems for printing, plastics, packing and machine tools etc.



Model	P.N.	Number of outlets	Discharge (ml/cyc)
DLX	33000-XX	2	0.03/0.06/0.1/0.2/0.3/0.4/0.5
	33000-XXX	3	
	33000-XXXX	4	
	33000-XXXXX	5	

If product P.N. is 33000T-XXX etc., T indicates that adaptor, compression sleeve and bushing shall be provided at inlets and outlets.

Discharge size code	A	B	C	D	E	F	G	0
Product printing mark	03	06	10	20	30	40	50	0
Discharge (ml/cyc)	0.03	0.06	0.1	0.2	0.3	0.4	0.5	0(Block)

For instance:

33000T-20/30/40/50-----33000 is product P.N., 20/30/40/50 is discharge indicating 0.2ml and 0.3ml and 0.4ml and 0.5ml from left to right.

T- adaptors and compression sleeve

BL Series Adjustable Injectors

Single and manifold injectors are adjustable up to .003 cubic inches discharge per cycle. Each manifold includes two mounting clips and screws



Technical Data

Model	P.N.	Number outlets	Work pressure	Viscosity	Discharge	A	L
		N	MPa	mm ² /s	mL/CY	mm	mm
BL	33061	1	5.6 ~6.9	32-320	0.016 ~0.049	29	41
	33062	2				48	60
	33063	3				67	79
	33064	4				86	98
	33065	5				105	117

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.

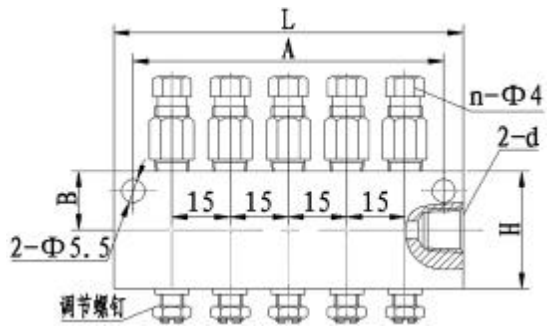
Check discharge output from injector if cap is adjusted to less than 1/2 turn from minimum.

Use a clean oil type and viscosity as recommended by machine manufacturer. Check compatibility with synthetic lubricants.

KJF Adjustable Distributor



KJF



Model	P.N.	n	$A \pm 0.2$	L	B	H	Inlet (d)	Viscosity
			mm	mm	mm	mm		
KJF	30200	2	37	47	15	27	NPT1/8	N20~ N320
	30201	3	52	62				
	30202	4	67	77				
	30203	5	82	92				
	30204	6	97	107				
	30205	7	112	122				
	30206	8	127	137				
	30207	9	142	152				
	30208	10	157	167				

Compression nut

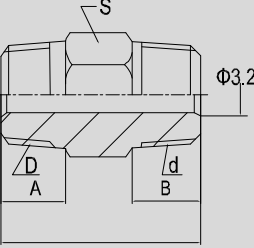
Figure	P.N.	D	d	L	S
	30039	M8×1	Φ3.3	12	10
	30011		Φ4.2		
	30012	M10×1	Φ6.1	13	12
	30038	M12×1	Φ8.1		14
	30037	M16×1.5	Φ10.2	15	19
	30036	M18×1.5	Φ12.2	18	21

Compression bushing

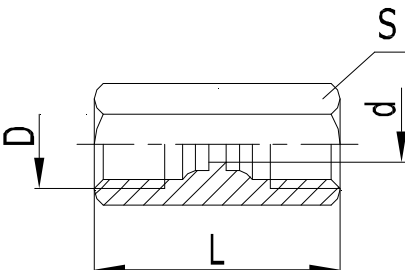
Figure	P.N.	D	d	L	S	A	B	Figure	
	30090	M10×1	M10×1	20	12	8	8		
	30093	Φ3.1	M6×1	12	6	/	/		
	30007	Φ4.2	M8×1		8				
	30008	Φ6.1	M10×1	13.5	11				
	30094	Φ8.2	M12×1	14	13	/	/		
	30095	Φ10.2	M16×1.5	16	17				
	30097	Φ12.2	M18×1.5	16	19	/	/		
30098	NPT1/4	Φ10.5	45	14	15				25
30099	NPT1/8	Φ8.4	48	14	12				28
30100	G1/2	Φ15	51	22	15				30
30104	G3/4	Φ14.5	52	32	16	28			

Straight coupling

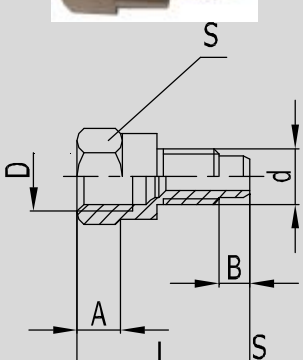
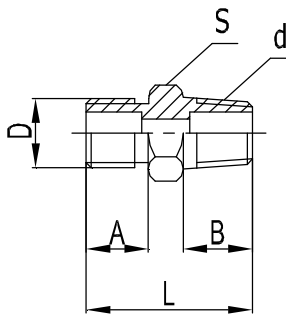
Figure	P.N.	D	d	L	S	A	B		
	30073	M6	M6	20	8	/	/		
	30080			21	8				
	30028	M8×1	NPT1/8	18	11	/	/		
	30071		R1/8						
	30077		NPT1/4	22	14	/	/		
	30074	M8×1	M10×1	18	11				
	30081		M6×0.75	21	11				
	30082		M8×1	18	11				
	30029	M10×1	NPT1/8	20	12				
	30079		M10×1						
	30084		M16×1.5	30	17				
	30019		R1/8	20	12				
	30085		R1/4	20	14			/	/
	30087		R3/8	27	19				
	30118		NPT1/4	22	14				
	30123		NPT3/8	27	19				
	30083	M12×1	R1/8	26	16				
	30124		R1/4	30					
	30070		NPT1/8	26					
	30125		NPT1/4	32					

	30126	M16×1.5	R3/8	32	19	/	/
	30127		NPT1/4	34	22		
	30128		NPT3/8	32	20		
	30129	M18×1.5	R3/8	32	21		
	30072	NPT1/8	NPT1/8	18			
	30130	Rc1/8	R1/8				
	30157	R1/8	R1/8	25	11	9	9
	30158	NPT1/8					
	30024		NPT1/8				
	30159	NPT1/4	NPT1/4	34	16	14	14
	30160		NPT1/8	33		15	12
	30022	M10×1	NPT1/8	25	11	9	9
	30023	M8×1	M8×1	25	11	9	9
	30025		NPT1/8	25	11	9	9
	30026	M12×1		NPT1/8	25	11	9

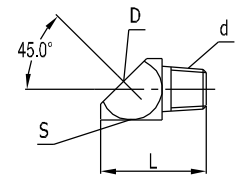
Tube coupling

Figure	P.N.	D	d	L	S
	30114	M8×1	Φ3.4	25	10
	30115	M10×1	Φ4	28	12
	30144	M12×1	Φ6	32	14
	30145	M16×1.5	Φ6.7	35	19
	30146	M18×1.5	Φ7.7		21


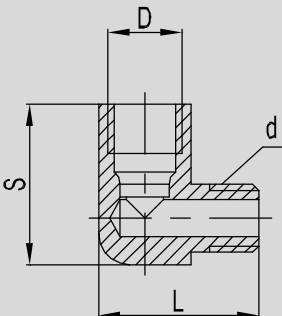
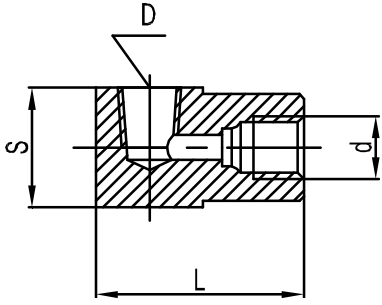
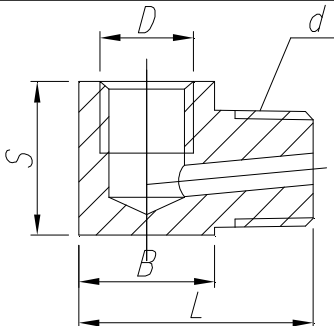

Reducer coupling

Figure	P.N.	D	d	L	S	A	B	Figure
	30020	M8×1	M10×1	25	12	12	4.5	
	30021	M10×1	M8×1			6.5		
	30048		M12×1	26	14	11	6	
	30018	M12×1	M10×1	/	/	/	/	
	30049	NPT1/8	M10×1	/	/	/	/	
	30161	M10×1	R1/4	30	14	/	/	
	30162		NPT1/8	24	11	9	10	
	30163		R1/8					
	30164	M12×1	R1/4	30	14	/	/	
	30165		NPT1/8	24	13	9	10	
	30166		NPT1/4	30	14		14	

45° Elbow Coupling

Figure	P.N.	D	d	L	S
	30167	NPT1/8	NPT1/8	22	13×13

90° Elbow Coupling

Figure	P.N	D	d	L	S	Figure	
 	30184	NPTZ1/8	M8×1	24	13×13		
	30111	M8×1	M6×0.75	21	20×12		
	30104		M6	18	19×10		
	30030		NPT1/8	19	19×10		
	30035		M10×1				
	30169		R1/8				
	30170		NPT1/4	28	23×14		
	30171		R1/4				
	30172		NPT3/8	30	25×18		
	30120		M10×1	R1/8	20		20×12
	30034			NPT1/8			
	30173	M10×1					
	30174	M14×1.5		30	25×18		
	30175	NPT1/4		28	23×14		
	30176	R1/4					
	30177	NPT3/8		30	25×18		
	30178	M12×1	R1/8	24.5	25.5		
	30179		R3/8	28	29		
	30180		NPT1/8	28.5	29×17		
	30181	M16×1.5	R1/4	35	30×20		
	30182		R3/8	37	32×21		
	30183		R1/2	36	36×22		
	30031	NPT1/8	NPT1/8	18	/		
	30032		M8×1	25	/		
	30033	M8×1	M8×1	25	/		
 	30105	M6	M6	18	10×10		
	30147		M6×0.75		10×10		
	30108	M8×1	M8×1	25	14×14		
	30107		M10×1				
	30106		NPT1/8	20			
	30109		R1/8				
	30148	M10×1	NPT1/8	25	16×16		
	30149		R1/4	28	18×18		
	30168	M12×1	R3/8	31	21×21		
	30110	NPT1/8	NPT1/8	20	14×14		
	30119		R1/8				
	30117		M10×1	22			

Plug

Figure	P.N.	d	L	S	A	Figure
	30016	M8×1	16	8	/	
	30017	M10×1	18	10		
	30103	M12×1	20	12		
	30232	M16×1.5	22	16		
	30233	M18×1.5		18		
	30234	M8×1	11	11	5	
	30235	M10×1		13		
	30236	M12×1	14	16	6	
	30237	M16×1.5	16	19		
	30238	M18×1.5		21		
	30239	NPT1/8	15	11	6	
	30240	R1/8				
	30241	NPT1/4	18	15		
	30242	R1/4				
	30243	NPT3/8	20	18		

Meter units

Figure	Name	P.N.	Flow
	SBJ-0	33013	0(slow)
	SBJ-1	33014	1
	SBJ-2	33015	2 (medium fast)
	SBJ-3	33016	3 fast
	SBJ-4	33017	4
	SBJ-5	33018	5(extra, extra fast)
	ZBJ-0	33003	0(slow)
	ZBJ-1	33004	1
	ZBJ-2	33005	2 (medium fast)
	ZBJ-3	33006	3 fast
	ZBJ-4	33007	4
	ZBJ-5	33008	5(extra, extra fast)

Junction 2-Way

Figure	P.N.	d	D	A	B	L
	30043	M8×1	2	19	16	29
	30112	M10×1		22.5	19	35

Junction 3-way

Figure	P.N.	d	D	A	B	L	Figure
	30044	M8×1	12	27	16	29	
	30113	M10×1	15	32	18	32	
	30086	2-M8×1	NPT1/8	21	18	29	
	30088	2-M10×1	NPT1/8			30	
	30089	M10×1	2- NPT1/8			32	
	30096	2-M8×1	NPT1/8			30	

Junction 4-way

Figure	P.N.	d	D	A	B	L	Figure
	30046	M8×1	12	30	16	30	
	30047	3-M8×1	Rc1/8	28	19	29	

Junction Bars

Figure	P.N.	D	N	A	B	C
<p>Note: 30051 Series: d1=d2= M8×1 30056 Series: d1= M10×1 d2= M8×1 The rest : d1=d2= M10×1</p>	30050-4	M8×1	4	48	36	16
	30051-4					
	30056-4					
	30050-5					
	30051-5					
	30056-5					
	30050-6		6	80	68	48
	30051-6					
	30056-6					
	30050-7		7	96	84	64
	30051-7					
	30056-7					
	30050-8		8	112	100	80
	30051-8					
	30056-8					
	30050-9		9	128	116	96
	30051-9					
	30056-9					
	30050-10		10	144	132	112
	30051-10					
30056-10						

	30050-12					
	30051-12		12	176	164	144
	30056-12					
	30057-4	M10×1	4	53	38	16
	30057-5		5	69	54	32
	30057-6		6	85	70	48
	30057-7		7	101	86	64
	30057-8		8	117	102	80
	30057-9		9	133	118	96
	30057-10		10	149	134	112

Junction Bars

Figure	P.N	N	D	d	A	B	C		
	30052-4	4	M10×1	M8×1	50	36	16		
	30052-5	5			66	52	32		
	30052-6	6			82	68	48		
	30052-7	7			98	84	64		
	30052-8	8			114	100	80		
	30052-9	9			130	116	96		
	30052-10	10			146	132	112		
	30052-11	11			162	148	128		
	30052-12	12			178	164	144		
	30056-4	4			M8×1	M8×1	50	36	16
	30056-5	5					66	52	32
	30056-6	6					82	68	48
	30056-7	7	98	84			64		
	30056-8	8	114	100			80		
	30056-9	9	130	116			96		
	30056-10	10	146	132			112		
	30056-11	11	162	148			128		
	30056-12	12	178	164			144		

Junction Bars - double

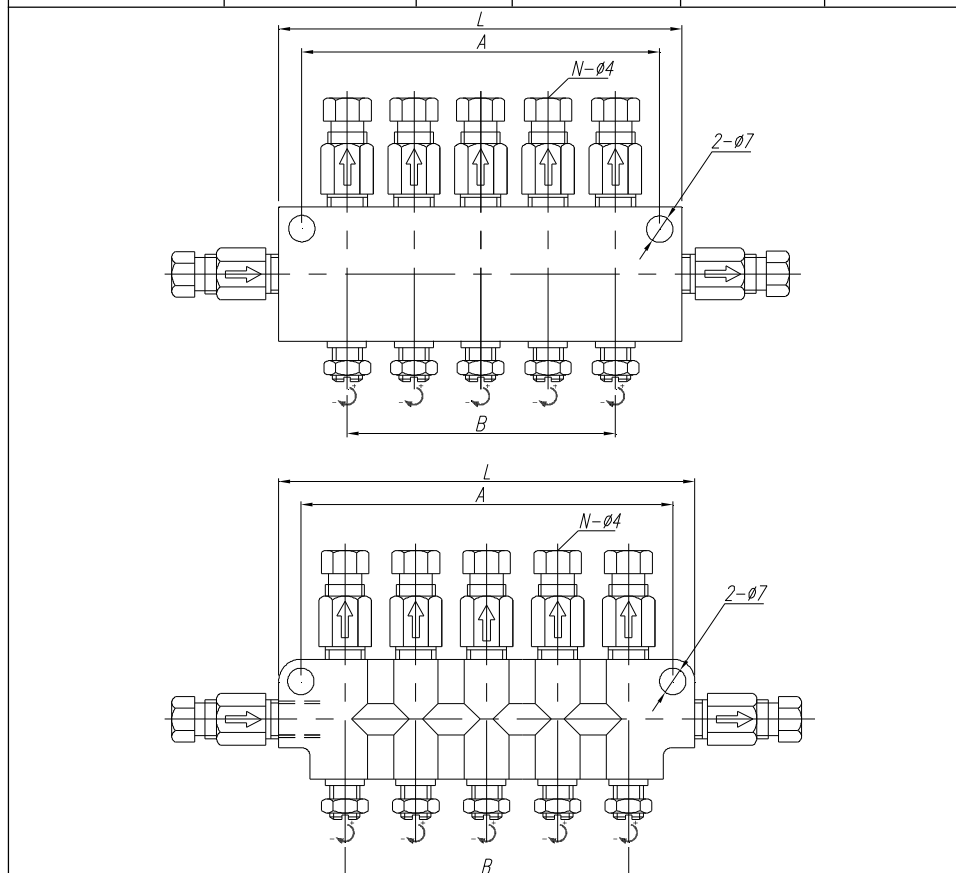
Figure	P.N.	N	D	d	A	B	C
	30053-6	6	M10×1	M8×1	48	34	16
	30053-8	8			64	50	32
	30053-10	10			80	66	48
	30053-12	12			96	82	64
	30054-6	6	M8×1	M8×1	48	34	16
	30054-8	8			64	50	32
	30054-10	10			80	66	48
	30054-12	12			96	82	64

Junction Bars - double

Figure	P.N.	N	D	d	A	B	C
	30055-6	6	M10×1	M8×1	36	16	50
	30055-8	8			52	32	66
	30055-10	10			68	48	82
	30055-12	12			84	64	98
	30058-6	6	M8×1	M8×1	36	16	50
	30058-8	8			52	32	66
	30058-10	10			68	48	82
	30058-12	12			84	64	98

Distribution-adjustable

Type	P.N.	N	A	B	L
KJF-02	30200	2	36	16	50
KJF-03	30201	3	52	32	66
KJF-04	30202	4	68	48	82
KJF-05	30203	5	84	64	98
KJF-06	30204	6	100	80	114
KJF-07	30205	7	116	96	130
KJF-08	30206	8	132	112	146
KJF-09	30207	9	148	128	162
KJF-10	30208	10	164	144	158
KJF-11	30209	11	180	160	174
KJF-12	30210	12	196	176	190



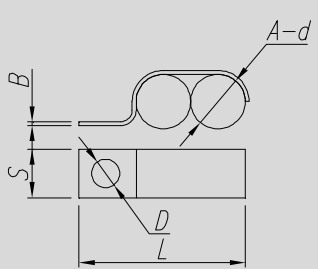
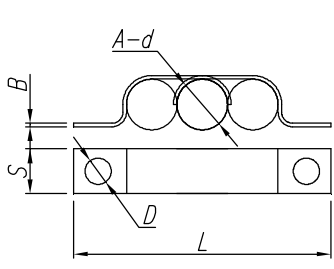
Injection-single

Figure	Series	P.N.	Discharge (ml/cyc)	L
	DL-03	33201	0.03	44
	DL-06	33202	0.06	44
	DL-10	33203	0.10	44
	DL-20	33204	0.20	44
	DL-30	33205	0.30	49
	DL-40	33206	0.40	61
	DL-50	33207	0.50	61

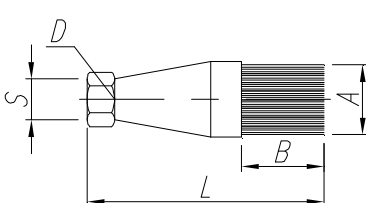
Injection-manifold

Figure	Name	Series	P.N.	N	Outlet-sing (ml/r)	A	L
	Triple	3DLX-03	33051	3	0.03	72	58
		3DLX-06	33052	3	0.06	72	58
		3DLX-1	33053	3	0.1	72	58
		3DLX-2	33054	3	0.2	72	58
		3DLX-3	33055	3	0.3	72	58
		3DLX-4	33056	3	0.4	72	58
		3DLX-5	33057	3	0.5	72	58
		3DLX-M	33050	3	Random	72	58
	Fourth	4DLX-03	33041	4	0.03	88	74
		4DLX-06	33042	4	0.06	88	74
		4DLX-1	33043	4	0.1	88	74
		4DLX-2	33044	4	0.2	88	74
		4DLX-3	33045	4	0.3	88	74
		4DLX-4	33046	4	0.4	88	74
		4DLX-5	33047	4	0.5	88	74
		4DLX-M	33040	4	Random	88	74
	5th	5DLX-03	33058	5	0.03	104	90
		5DLX-06	33059	5	0.06	104	90
		5DLX-1	33060	5	0.1	104	90
		5DLX-2	33061	5	0.2	104	90
		5DLX-3	33062	5	0.3	104	90
5DLX-4		33063	5	0.4	104	90	
5DLX-5		33064	5	0.5	104	90	
5DLX-M		33065	5	Random	104	90	

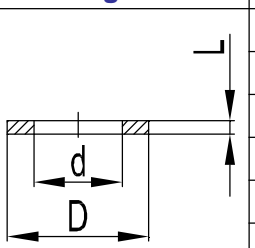
Tube Clip

Figure	P.N.	D	d	L	S	A	B	Figure			
	30076-1	Φ5.5	Φ4	18	10	1pcs	1.5				
	30076-2			22		2pcs					
	30076-3			26		3pcs					
	30078-1		Φ6	19		1pcs					
	30078-2			25		2pcs					
	30078-3			37		3pcs					
	30079-1		Φ8	21		1pcs					
	30079-2			29		2pcs					
	30080-1		Φ10	23		1pcs					
	30080-2			33		2pcs					
	30081-1		Φ12	24		1pcs					
	30081-2			36		2pcs					
	30082		Φ5.5	Φ4		36			10	3pcs	1.5
	30083			Φ6		42					
	30084			Φ8		48					
30085	Φ10	54									
30087	Φ12	60									

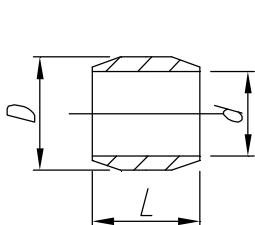
Brush

Figure	P.N.	D	L	S	A	B
	30101	NPT1/8	58	13	20	20
	30102	M8×1	58	13	20	20

Washer

Figure	P.N.	D	d	L	Info.
	30245	Φ11	Φ8.2	1.5	Brass
	30246	Φ13	Φ10.2		
	30247	Φ16	Φ12.2		
	30248	Φ18	Φ14.2		
	30249	Φ20	Φ16.2		
	30250	Φ22	Φ18.2		

Sleeve

Figure	P.N.	D	d	L
	30091	Φ4.8	Φ3.1	4.5
	30001	Φ6	Φ4.1	4
	30003			4.75
	30002	Φ8	Φ6.1	6
	30004			6
	30005	Φ10	Φ8.1	5.8
	30006	Φ12	Φ10.1	7
	30009	Φ14	Φ12.2	9

Nylon tube inserts

Figure	P.N.	D	d	L	S
	30010	Φ3.8	Φ2.5	11	1.9
	30042	Φ4	Φ3	15.5	2.4
	30040	Φ5	Φ4		3.4
	30013	Φ5.8	Φ3.5	15	3
	30041	Φ8	Φ6	15.5	5
	30014	Φ10	Φ7.5	16	6.7
	30059	Φ12	Φ9	15	7.5

Tube

Figure	Info	P.N.	D	d	Figure
	Nylon	30137	Φ3	Φ2	
		30139		Φ2	
		30198	Φ4	Φ2.5	
		30138		Φ3	
		30140	Φ6	Φ4	
		30150	Φ8	Φ6	
		30196	Φ10	Φ7.5	
		30197	Φ12	Φ9	
	Brass	30141	Φ4	Φ3	
		30142	Φ6	Φ4	
		30143	Φ8	Φ6	
		30199	Φ10	Φ8	
		30211	Φ12	Φ10	
	Aluminum	30212	Φ4	Φ3	
		30213	Φ6	Φ4	
		30214	Φ8	Φ6	
30215		Φ10	Φ8		
30216		Φ12	Φ10		

Flexible hose assemblies

Figure	Dia. of the tube	Coupling nut	A Series		B Series		Info.
			P.N.	L	P.N.	L	
	Φ4	M8×1	30151-1	300	30152-1	300	Nylon
			30151-2	500	30152-2	500	
			30151-3	800	30152-3	800	
			30151-4	1000	30152-4	1000	
			30151-5	1200	30152-5	1200	
			30151-6	1500	30152-6	1500	
	Φ6	M10×1	30154-1	300	30251-1	300	Nylon
			30154-2	500	30251-2	500	
			30154-3	800	30251-3	800	
			30154-4	1000	30251-4	1000	
			30154-5	1200	30251-5	1200	
			30154-6	1500	30251-6	1500	

High pressure flexible assemblies

Figure	P.N.	D	d	S	A	L	Working pressure (MPa)
	30221	M8×1	3	12	21	850	20
	30222	M10×1	6	10	27.5	400	25
	30223					500	
	30224					1200	
	30225	M12×1	8	12	30	600	24
	30226					1000	
	30227	M10×1	6	10	27.5	400	25
	30228					500	
	30229					1200	
	30230	M12×1	8	12	30	600	24
	30231					1200	

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