

Volumetric centralized thin oil lubrication system

容积式集中稀油润滑系统

容积式集中稀油润滑系统概述

Description of the volumetric centralized thin oil lubricating system

容积式润滑系统由容积式润滑泵与滤油器、直通式分油块、容积式分配器、铜接头、油管等配件组成,此润滑系统包括(脱压式定量出油)和(加压式定量出油)两种形式。

The volumetric lubricating system is composed of volumetric lubricating pump and oil filter, through oil distribution block, volumetric distributor, copper joint and oil pipe etc.. The lubricating system is composed of two types of oil delivery, namely, the decompression quantified oil delivery and the pressurized quantified oil delivery.

1 脱压定量出油工作原理

容积式润滑泵工作时,先将润滑油输送到(BFA/BFB型)容积式分配器中,当容积式分配器内储满油后,润滑泵停止工作,同时自动脱压,分配器内的弹簧推动内部活塞,将定量好的润滑油输送到各润滑点。

2 加压定量出油工作原理

容积式润滑泵工作时,通过输送的压力推动(BFD型)容积式分配器内部活塞,将容积式分配器内已定量好的润滑油强制性输送到各润滑点。

3 系统特点

- 每次可将润滑油精准定量地输送到各润滑点。
- 各定量孔出油量不会因油品的黏度、温度变化、供油时间长短而发生变化。
- 同规格的容积式分配器每次出油量不受安装位置的远近、高低等因素影响。
- 按需计量分配各润滑点油量,在实际使用当中,容积式系统更为节能环保,经济实用。

Operating principle of decompression quantified oil delivery

When the volumetric lubricating pump is working, the lubricant is conveyed to (models BFA/BFB) volumetric distributor. When the volumetric distributor is full of oil, the lubricant stops working and decompressed. The spring in the distributor advances internal pistons, and conveys quantified lubricant to the lubricating points.

Operating principle of pressurized quantified oil delivery

When the volumetric lubricating pump is working, the pressure is used to drive piston inside the (model BF) volumetric distributor, and quantified lubricant in the volumetric distributor is used to convey the lubricating points.

System characteristics

- The lubricant is conveyed to lubricating points accurately.
- Oil delivery quantities of the quantified holes are subject to viscosity, temperature and oil injection time.
- Oil delivery volume of volumetric distribution of the same specifications are subject to installation location and height etc.
- Oil volumes of the lubricating points are measured, and the volumetric system is economical and more energy saving in practice.

4 系统配置注意事项

- 在容积式润滑系统中,每一个润滑点必须单独对应容积式分配器的每一个定量出油孔,进行直通式润滑。否则会导致管路无法聚压,使分配器无法正常储油或出油。
- 须搭配容积式润滑泵使用,严禁与抵抗式润滑泵配合使用。

Attentions for system configuration

- In the volumetric lubricating system, each lubricating system must be provided with a quantified oil outlet hole of the corresponding volumetric distributor for through lubricating; otherwise, the pipeline cannot accumulate pressure, and the distributor cannot store or convey oil.
- The system shall be used with the lubricant pump, and cannot be used with the resistant lubricating pump.

5 系统安装注意事项

- 各油路管口裁剪平整,确保连接完好不漏油,否则将导致管路有缓慢漏油卸压甚至无法聚压,使分配器无法正常储油或出油。
- 安装时保证各管路内部清洁,润滑泵和主油管路中严禁加装任何止逆装置。
- 请使用优质洁净的新润滑油,最佳通用黏度32cSt~250cSt。严禁使用具有高独特性或酸碱性的油品。
- 适用温度-10~50℃。
- 注意使用环境温度变化,适当调整使用油品黏度值,建议在15℃以下时用R32#油品,30℃以上时用R68#油品。

Attentions for system installation:

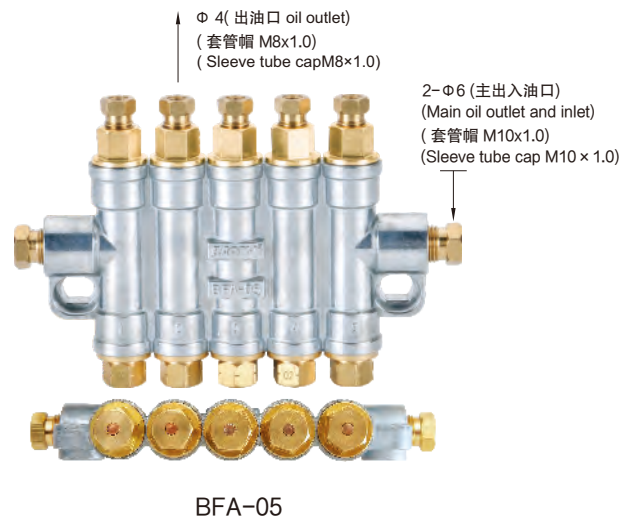
- Oil pipe orifices shall be cut in order to ensure that connection is integral without oil leakage; otherwise, the pipeline may leak oil and pressure cannot be accumulated, and the distributor cannot store oil or convey oil.
- When installed, interior of the pipeline shall be clean, and installing check valves in the lubricating pump and main pipeline are prohibited.
- Please use high-quality and excellent new lubricant, and the optimum viscosity is 32cSt~250cSt. Unique, alkali or acid oil cannot be used.
- Applicable temperature -10~50°C.
- Please notice changes of environmental temperature. Properly adjust oil product variety. R32# oil product is used below the temperature of 15°C, and R68# oil product is used above 30°C.

6 基本适用范围

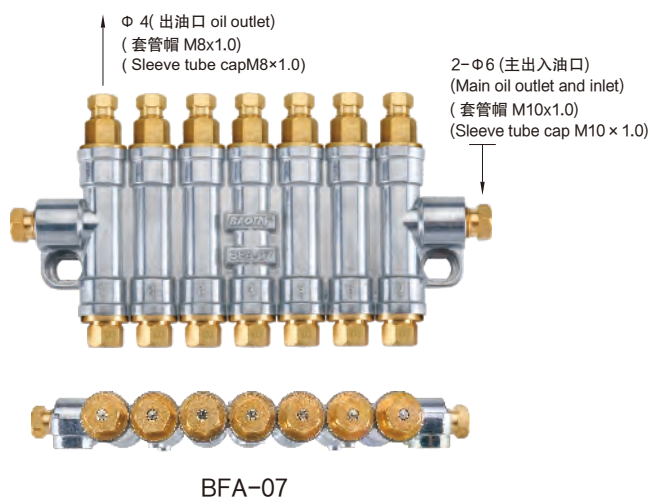
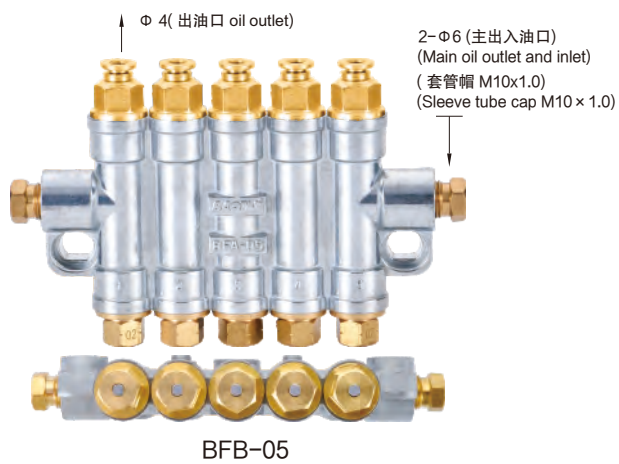
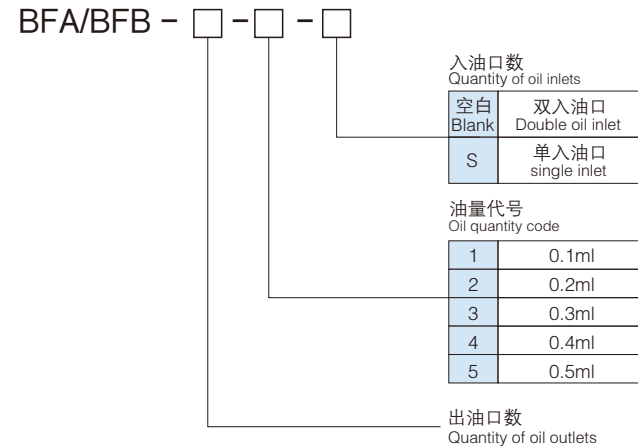
- 齿轮泵(罩极电机):适用于主油管路长度在10米,高度在6米,润滑点数约在50个之内的中小型机械设备中。
- 齿轮泵(感应电机):适用于主油管路长,润滑点多,需油量较大的各类机械设备中。

Basic scope of application:

- Gear pump (Shaded Pole Motor): applicable for medium and small-sized machinery and equipment with main oil pipeline length of 10 meters, height of 6 meters and lubricating points of maximum 50 points.
- Gear pump (Induction Motor): applicable for various machinery and equipment with lengthy main oil pipe and requiring large oil quantities.



订货编制说明 Order description

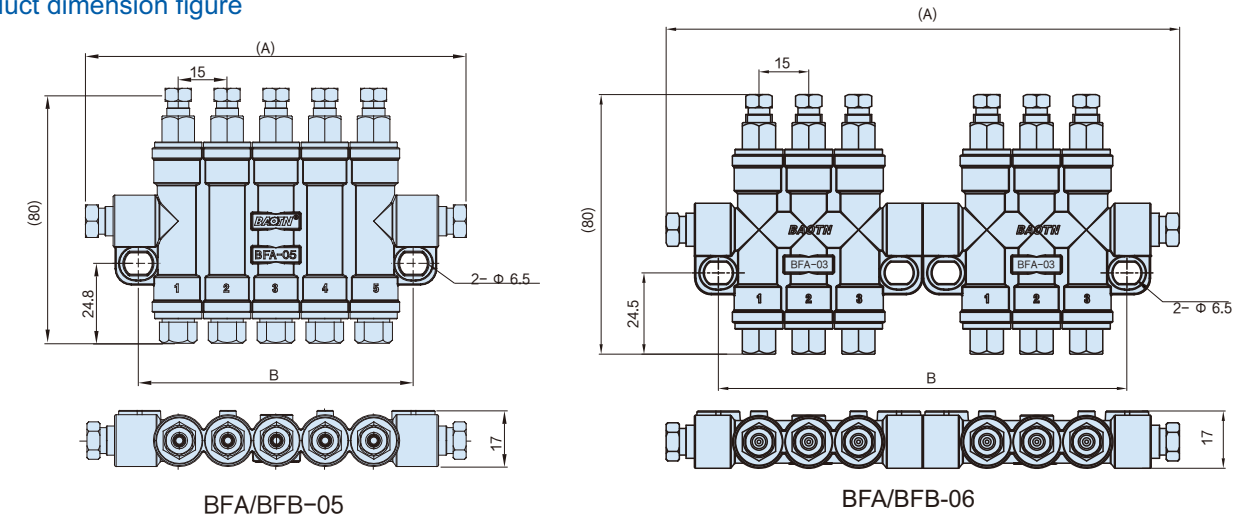


- 油量表示方法:(注:当所有出油口油量值一样时, 只用一个油量值表示)
- 例1:BFA/BFB-05-2 表示BFA/BFB型5位分配器第1, 2, 3, 4, 5出油口油量全部为0.2毫升/次。
- 例2:BFA/BFB-05-53235 表示BFA/BFB型5位分配器第1, 2, 3, 4, 5出油口油量分别为0.5; 0.3; 0.2; 0.3; 0.5毫升/次。
- ※注: 8; 9; 10位是BFA/BFB-03; BFA/BFB-04; BFA/BFB-05与BFA/BFB-05分别组合。6位是BFA/BFB-03与BFA/BFB-03组合。
- Oil volume indication: (notes: when oil volume values of all outlets are identical, represented with one oil volume).
- Example 1: BFA/BFB-05-02 means 5-position distributor with model of BFA/BFB, oil delivery volume of oil outlets 1, 2, 3, 4 and 5 is 0.2ml/time.
- Example 2: BFA/BFB-05-53235 means that outlet oil volumes of outlets 1, 2, 3, 4 and 5 of 5-position distributors with model of BFA are 0.5, 0.3, 0.2, 0.3 and 0.5ml/time.
- ※ Notes: 8, 9 and 10 are combination of BFA/BFB-03, BFA/BFB-04, BFA/BFB-05 and BFA/BFB-05. 6 is combination of BFA/BFB-03 and BFA/BFB-03.

规格型号及技术参数: Models, specifications and technical parameters

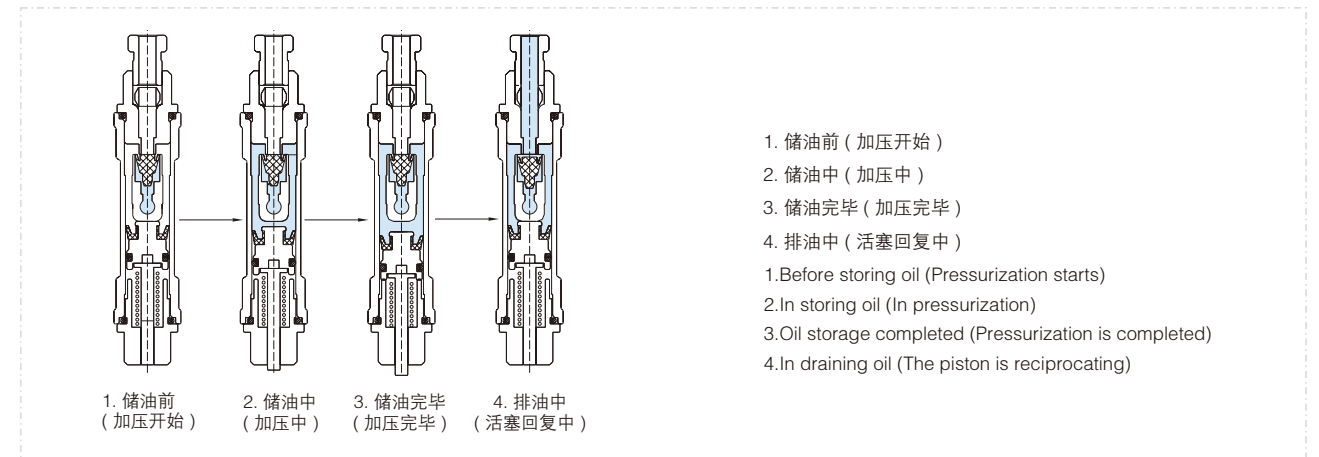
型号规格 Models and specifications	出口数 Outlet quantity	A	B	吐油量 Throughput (cc/cy)	重量 Weight (g)
BFA(BFB)-01	1	69	39	0.1/0.2/0.3 /0.4/0.5	168
BFA(BFB)-02	2	69	39		168
BFA(BFB)-03	3	86	54		232
BFA(BFB)-04	4	102	69		299
BFA(BFB)-05	5	116.5	84		359
BFA(BFB)-06	6	160	123.5		464
BFA(BFB)-07	7	144	114		493
BFA(BFB)-08	8	186	154		591
BFA(BFB)-09	9	202	169.5		658
BFA(BFB)-10	10	217	184.5		718

产品外形尺寸图 Product dimension figure



- ※ 6位是BFA/BFB-03与BFA/BFB-03组合。
- 8; 9; 10位是BFA/BFB-03; BFA/BFB-04; BFA/BFB-05与BFA/BFB-05分别组合。

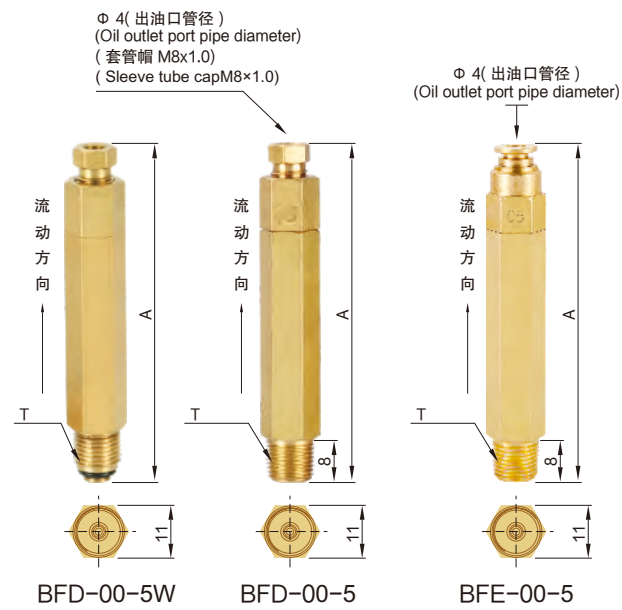
BFA/BFB 分配器工作原理图 Schematic diagram of the BFA/BFB distributor



BFA/BFB 分配器工作原理说明 Rationale of the BFA/BFB distributor

- 从注油机输送出的润滑油, 经BFA/BFB分配器中的伞形阀门开始往上推动。
- 当伞形阀门把出油孔封闭后, 油压迫使储油块克服弹簧力开始下降, 使油腔开始储油。
- 当BFA/BFB储油块被顶至油腔顶点时, BFA/BFB储油完毕。
- 当油泵停止供油时, 其卸压阀自动开启, 使主管管内润滑油通过卸压阀回油。此时系统压力下降, 同时伞形阀回复封闭进口油, 而BFA/BFB储油块在弹簧力的作用下开始把油腔内的润滑油往出油口压出。
- Lubricant delivered from the oil injector starts to drive through the umbrella valve in the BFA/BFB distributor.
- When the umbrella valve closes the oil outlet hole, oil pressure forces oil storage block to overcome spring force and lower down, and the oil cavity starts to store oil.
- When BFA/BFB oil storage block arrives at the top of the oil cavity, storing oil by BFA/BFB is completed.
- When the oil pump stops supplying oil, the decompression valve is automatically opened to make lubricant in the main oil pipe to return through the decompression valve. The system pressure is lowered, the umbrella valve reciprocates and closes the inlet oil, and the BFA/BFB oil storage block compresses the lubricant in the oil cavity to the the oil outlet port.

单支加压式稀油分配器 Single pressurization thin oil distributor



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BFD/BFE-00-□□

出油口油量值 Oil volume at oil outlet		螺纹形式 Thread form	
05	0.05 毫升 / 次 0.05ml/time	空白 Blank	PT1/8
1	0.1 毫升 / 次 0.1 ml/time	W	M10X1
2	0.2 毫升 / 次 0.2 ml/time		
3	0.3 毫升 / 次 0.3 ml/time		
4	0.4 毫升 / 次 0.4 ml/time		
5	0.5 毫升 / 次 0.5 ml/time		

规格型号及技术参数 Models, specifications and technical parameters

型号规格 Models and specifications	吐出量 Throughput (cc/cy)	A	记号 Mark	T	重量 Weight (g)
BFD/BFE-00-05	0.05	53	00	PT1/8 M10X1	100
BFD/BFE-00-1	0.1	53	01		100
BFD/BFE-00-2	0.2	60	02		168
BFD/BFE-00-3	0.3	60	03		232
BFD/BFE-00-4	0.4	71	04		299
BFD/BFE-00-5	0.5	71	05	359	

定量加压式稀油分配器 Quantified pressurized thin oil distributor



订货编制说明 Order description

BFD/BFE-□-□-□

入油口数 Quantity of oil inlets		油量代号 Oil quantity code	
空白 Blank	双入油口 Double oil inlet	05	0.05ml
S	单入油口 single inlet	1	0.1ml
		2	0.2ml
		3	0.3ml
		4	0.4ml
		5	0.5ml

出油口数 Quantity of oil outlets

- 油量表示方法:(注:当所有出油口油量值一样时,只用一个油量值表示)
- 例1:BFD/BFE-05-2 表示BFD/BFE型5位分配器第1, 2, 3, 4, 5出油口油量全部为0.2毫升/次。
- 例2:BFD/BFE-05-53235 表示BFD/BFE型5位分配器第1, 2, 3, 4, 5出油口油量分别为0.5; 0.3; 0.2; 0.3; 0.5毫升/次。
- ※注:出油口数1-12位为常规款。
- Oil volume indication: (notes: when oil volume values of all oil outlets are identical, represented with one oil volume).
- Example 1: BFD/BFE-05-02 means 5-position distributor with model of BFD/BFE, oil delivery volume of oil outlets 1, 2, 3, 4 and 5 is 0.2ml/time.
- Example 2: BFD/BFE-05-53235 means that outlet oil volumes of outlets 1, 2, 3, 4 and 5 of 5-position distributors with model of BFD/BFE are 0.5, 0.3, 0.2, 0.3 and 0.5ml/time.
- ※ Note: The number of oil outlets 1-12 is the conventional model.

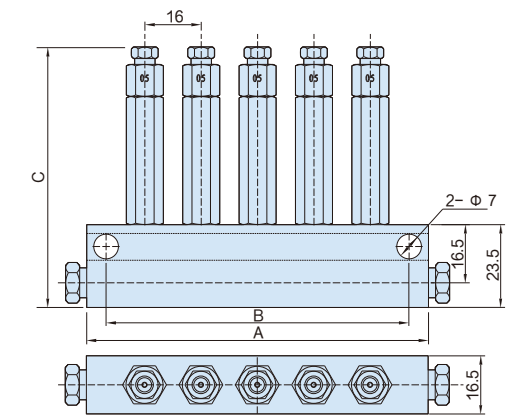
容积式稀油分配器 Volumetric thin oil distributor

规格型号及技术参数 Models, specifications and technical parameters

型号规格 Models and specifications	出口数 Outlet quantity	A	B	C	吐出量 Throughput (cc/cy)	重量 Weight (g)
BFD/BFE-02	2	49	38	68-86	0.05; 0.1;	168
BFD/BFE-03	3	65	54	68-86	0.2; 0.3;	232
BFD/BFE-04	4	81	70	68-86	0.4; 0.5.	299
BFD/BFE-05	5	97	86	68-86		359

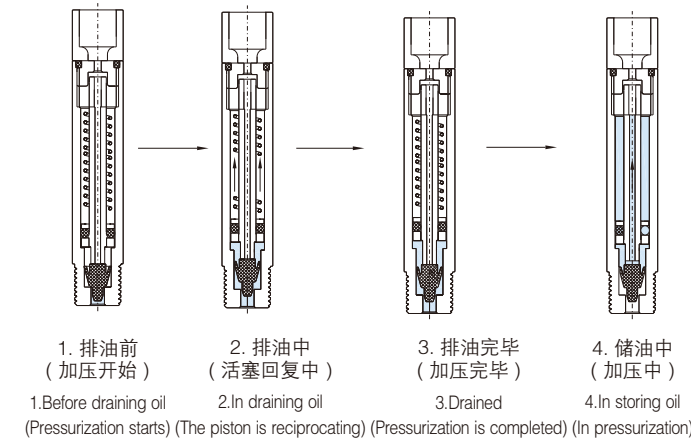
备注: C尺寸0.1cc为68mm, 0.2-0.3cc为75mm, 0.4-0.5cc为86mm。
Remarks: The measurement of C is respectively 68mm, 75mm and 86mm when the throughput is 0.1cc, 0.2-0.3cc, 0.4-0.5cc

产品外形尺寸图 Product dimension figure



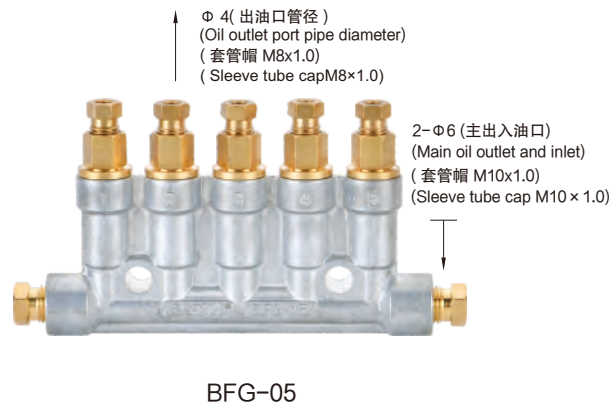
BFD-05

BFD/BFE 分配器工作原理图 Schematic diagram of the BFD/BFE distributor

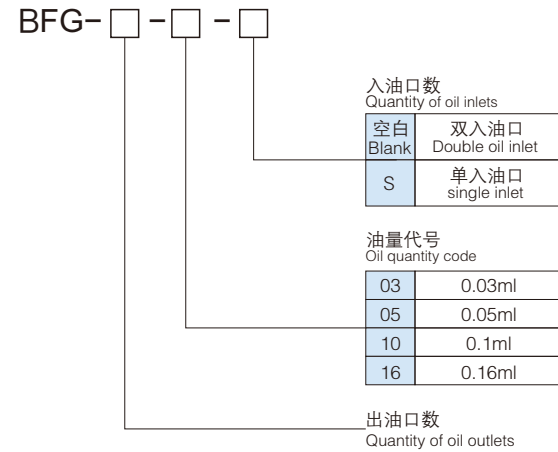


BFD/BFE 分配器工作原理说明 Rationale of the BFD/BFE distributor

- 从油泵中压送出来的润滑油,使BFD/BFE分配器中的伞形胶开始往上推动。
- 当伞形阀把芯杆中心孔封闭后,迫使活塞克服弹簧力开始上升。将油腔原先存储的润滑油排出。
- 当活塞移至油腔顶点时,排油同时完成。
- 油泵停止供油时,其泄压阀自动开启,使主管内润滑油通过卸压阀回油。此时系统压力下降,分配器中的活塞在弹簧的作用下开始回复,当伞形阀回复封闭分配器进油时,则活塞把存储在下腔的润滑油通过芯杆小孔压送到油腔,同时下次的供油也准备完毕。
- Lubricant delivered from the oil pump makes umbrella valve in the BFD/BFE distributor drive upwards.
- When the umbrella valve closes central hole of the core bar, the piston overcomes the spring force to rise. Lubricant stored in the oil cavity is drained out.
- When piston moves to the top point of oil cavity, oil draining is completed.
- When oil pump stops oil supplying, the pressure release valve is automatically released to make lubricant in the main oil pipe to return through the decompression valve. At this moment, the system pressure is reduced, and piston in the distributor starts reciprocating with the function of spring. When the umbrella valve reciprocates and closes oil outlet of the distributor, the piston delivers lubricant in the lower cavity through the core bar, and oil supply for the next time is ready.



订货编制说明 Order description



- 油量表示方法:(注:当所有出油口油量值一样时,只用一个油量值表示)
- 例1:BFG-05-1表示BFG型5口分配器第1, 2, 3, 4, 5出油口油量全部为0.1毫升/次。
- 例2:BFG-05-1610050303表示BFG型5口分配器第1, 2, 3, 4, 5出油口油量分别为0.16, 0.1, 0.05, 0.03, 0.03毫升/次。
- 例3:BFG-05-10-S表示BFG型5口分配器第1, 2, 3, 4, 5出油口油量全部为0.1毫升/次, 入油主管一端配套管和套官帽;出油主管一端配塞头。

※ 注:7;8;9;10位是BFG-02;BFG-03;BFG-04;BFG-05与BFG-05分别组合。6位是BFG-03与BFG-03组合。

- Oil volume indication: (notes: when oil volume values of all oil outlets are identical, represented with one oil volume).
- Example 1: BFG-05-1 means that the oil volume of the 1st, 2nd, 3rd, 4th and 5th oil outlet of the BFG type 5-port distributor is all 0.1ml/time.
- Example 2: BFG-05-1610050303 means that the oil volume of the 1st, 2nd, 3rd, 4th and 5th oil outlet of the BFG type 5-port distributor is 0.16, 0.1, 0.05, 0.03, 0.03 ml/time respectively.
- Example 3: BFG-05-10-S means that the oil volume of the 1st, 2nd, 3rd, 4th, and 5th oil outlet of the BFG type 5-port distributor is all 0.1ml/time, and one end of the oil inlet main pipe is matched with a pipe and an official cap; One end of the oil outlet pipe is equipped with a plug.

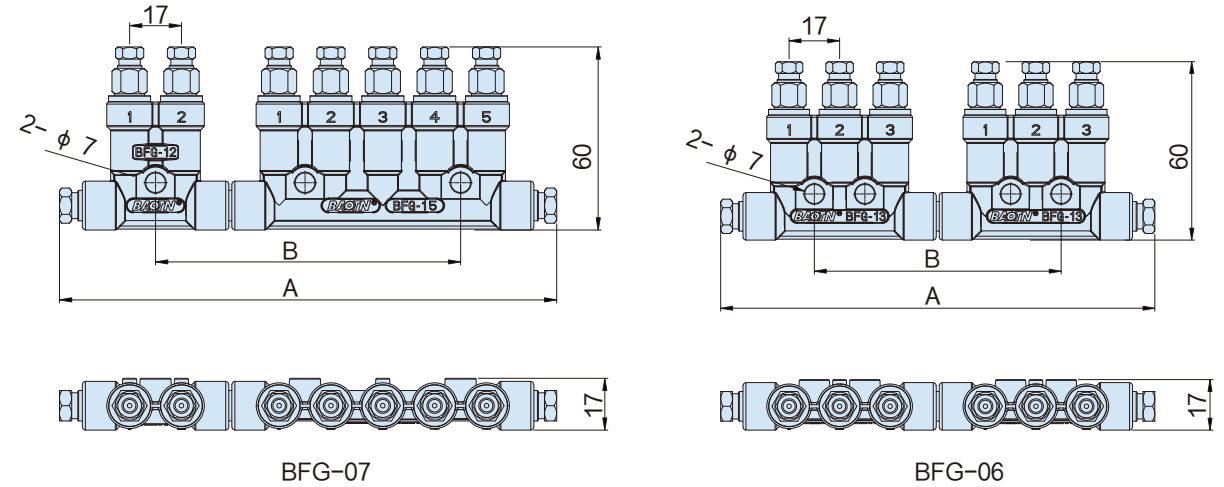
※ Note: 7; 8; 9; 10 bits are BFG-02; BFG-03; BFG-04; BFG-05 and BFG-05 is combined separately. Bit 6 is a combination of BFG-03 and BFG-03.

规格型号及技术参数:

Models, specifications and technical parameters

型号规格 Models and specifications	出口数 Outlet quantity	A	B	吐油量 Throughput (cc/cy)	重量 Weight (g)
BFG-02	2	63	/	0.03/0.05/0.1/0.16	120
BFG-03	3	80	17		164
BFG-04	4	97	34		207
BFG-05	5	114	51		251
BFG-06	6	146	83		330
BFG-07	7	163	100		348
BFG-08	8	180	117		366
BFG-09	9	197	134		384
BFG-10	10	214	151		402

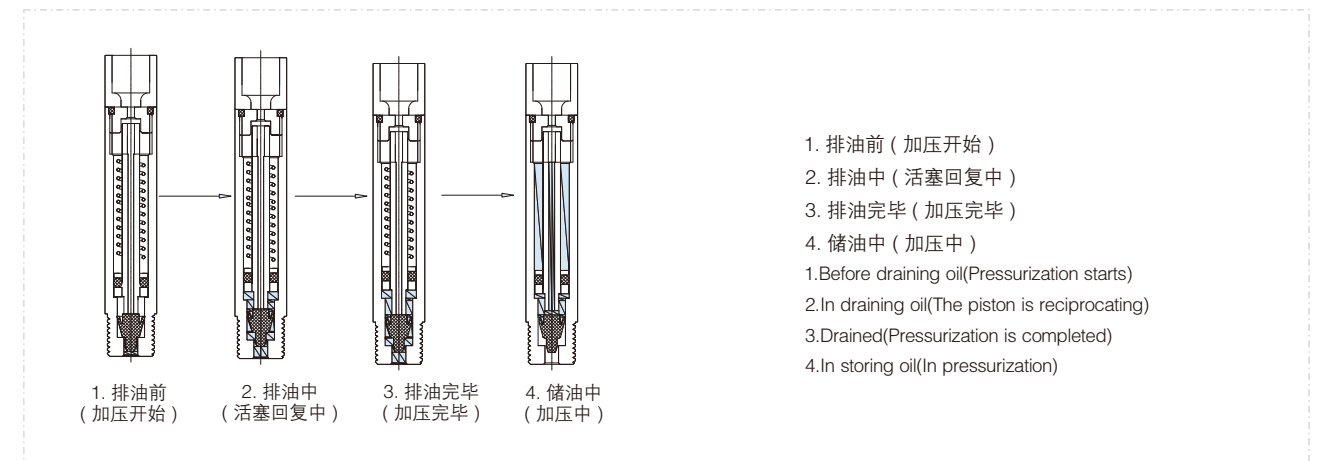
产品外形尺寸图 Product dimension figure



※ 注:7;8;9;10位是BFG-02;BFG-03;BFG-04;BFG-05与BFG-05分别组合。6位是BFG-03与BFG-03组合。

BFG 分配器工作原理图

Schematic diagram of the BFG distributor



BFG 分配器工作原理说明

Rationale of the BFG distributor

- 从油泵输送出的润滑油, 经BFG分配器中的伞形阀门开始往上推动。
- 当伞形阀把芯杆中心孔封闭后, 迫使活塞克服弹簧力开始上升。将上腔原先存储的润滑油排出。
- 当活塞移至上腔顶点时, 排油同时完成。
- 油泵停止供油时, 其泄压阀自动开启, 使主油管内压力油通过卸压阀回油。此时系统压力下降, 分配器中的活塞在弹簧的作用下开始回复, 当伞形阀回复封闭分配器进油时, 则活塞把存储在下腔的润滑油通过芯杆小孔压送到上腔, 同时下次的供油也准备完毕。
- The lubricating oil delivered from the oil pump starts to push upward through the umbrella valve in the BFG distributor.
- When the umbrella valve closes the central hole of the core rod, the piston is forced to rise against the spring force. Drain the lubricating oil previously stored in the upper chamber.
- When the piston moves to the top of the upper chamber, the oil discharge is completed at the same time.
- When the oil pump stops supplying oil, its pressure relief valve opens automatically, so that the pressure oil in the main oil pipe returns to the oil through the pressure relief valve. At this time, the system pressure drops, and the piston in the distributor begins to recover under the action of the spring. When the umbrella valve returns to close the distributor and enters the oil, the piston presses the lubricating oil stored in the lower chamber to the upper chamber through the small hole of the core rod, and the next fuel supply is also ready.



订货编制说明 Order description

BTA-A2 [] [] - [] [] [] [] [] [] [] []

压力开关 Pressure switch	空白 Blank	无 None
油箱容积 Oil tank volume	2	2L
	3	3L
	4	4L
	6	6L
	8	8L
电机类型 Motor type	1	单相 110V Single phase 110V
	2	单相 220V Single phase 220V
油箱 Oil tank	空白 Blank	树脂油箱 Resin oil tank
	A	金属油箱不带回油装置 Metal oil tank without oil return device
	H	金属油箱带回油装置 Metal oil tank with oil return device
液位开关 Liquid level switch	空白 Blank	有液位开关 Liquid level switch available
出油口管径 Outlet pipe diameter	6	接Φ6管 Connected to Φ6 pipe
吐出量 Throughput	2	200cc/min
	5	150cc/min

*吐出量: 1、当油箱容积2L时为150cc/min
2、当油箱容积3L及以上时为200cc/min
*Throughput: 1. 150cc / min when the tank volume is 2L
2. 200cc / min when the tank volume is 3L and above

性能与特点

- 系统可设定三种动作模式。
 - 润滑: 开机时先执行润滑时间计时。
 - 间歇: 润滑完成后执行间歇时间计时(时间单位可转换)。
 - 记忆: 断电后再次送电可继续执行之前未完成的间歇时间。润滑时间和间歇时间均可调整。(内置有锁键功能, 可锁定设置后的润滑和间歇时间)
- 设有液位开关、压力开关(可选配)。当油量或压力不足时蜂鸣器会发出报警、并将异常信号输出。
 - 压力不足显示Erp。
 - 液位不足显示Ero。
- 系统时间可设定, "LUB"润滑时间: 1-999(秒) "INT"间歇时间: 1-999(分)(特殊要求可定制)
- 面板指示灯可显示出注油机的润滑和间歇状态。
- 系统可使用"RST"键,强制润滑或消除异常报警信号。
- 单次最长润滑时间≤2min,间歇时间通常为润滑时间的5倍以上。
- 电机设有自我保护功能,防止电机温度过高及过载。
- 在容积式系统中设有脱压装置,需配合BFA/BFB/BFC/BFD/BFE/BFG分配器使用,参考03-08页。
- 设有溢流阀,可保护注油机及管路由于压力过高而损坏。

Performance and characteristics

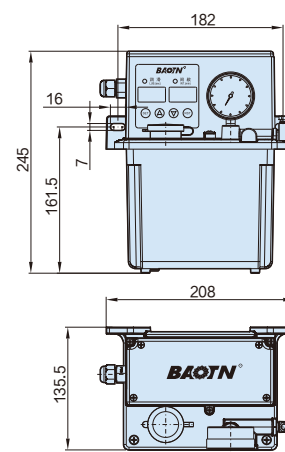
- The system is configured with 3 action modes.
 - Lubricating: when turning on, execute lubricating timing.
 - Intermittent: execute intermittent timing after lubricating is completed (Time unit convertible).
 - Memory: in case of power on after power off, resume incomplete intermittent time.
- Lubricating time and intermittent time can be adjusted. (Built-in locking function, and lubricating and intermittent time after setting is locked).
- Provided with liquid level switch and pressure switch (optional). When oil volume or pressure is insufficient, the beeper makes sound, send alarm and offers abnormal signal output.
 - When pressure is insufficient, Erp is displayed.
 - When liquid level is insufficient, Ero is displayed.
- The system time can be configured, LUB lubricating time: 1-999 (seconds) INT intermittent time: 1-999 (minutes) (tailored if specially required)
- The panel indicator displays lubricating and intermittent status.
- The system uses RST key to force lubricating or eliminate abnormal reporting signal.
- Single maximum lubricating time ≤ 2 min, and intermittent time is at least 5 times of the lubricating time.
- The motor is provided with self-protection function to avoid high motor temperature and overload.
- Decompression device is provided with volumetric system, used with BFA/BFB/BFC/BFD/BFE/BFG distributor, Refer to page 03-08.
- Overflow is provided to protect oil injector and pipeline from being damaged by high pressure.

规格型号及技术参数 Specifications, models and technical parameters

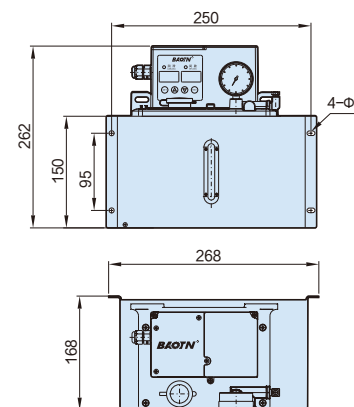
项目Item 型号规格 Models and specifications	电机Motor		润滑时间 Lubricating time (S)	间歇时间 Intermittent time (M)	额定压力 Rated pressure (MPa)	最大输出压力 Maximum output pressure	吐出量 Throughput (cc/min)	出油管径 Outlet oil pipe diameter	压力开关 Pressure Switch	液位开关 Liquid level switch	蜂鸣器 Beeper	油箱容量 Oil tank volume (L)	重量 Weight (KG)
	电压 Voltage (V)	功率 Power (W)											
BTA-A2	AC110 or AC220	20	1-999		1.5~1.7	2.5	150 200	Φ 6	可选配 Optional	有 Yes	有 Yes	2 (树脂 Resin) 3 (树脂 Resin) 4 (树脂 Resin) 4 (钣金 Metal plate) 6 (钣金 Metal plate) 8 (钣金 Metal plate)	2.90 3.20 3.30 5.70 6.00 6.50



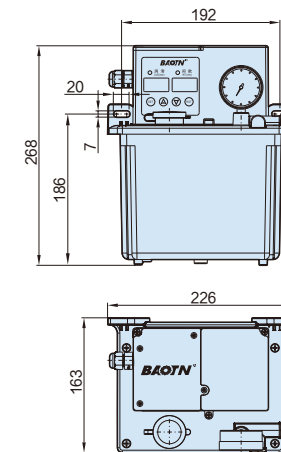
BTA-A2P2
(树脂油箱 Resin oil tank)



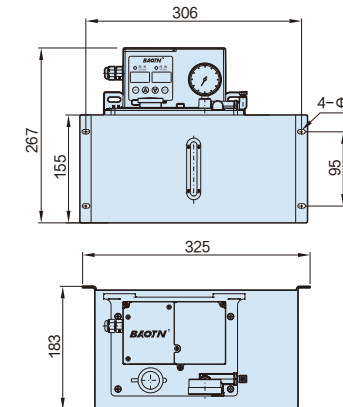
BTA-A2P4
(钣金油箱 Sheet metal oil tank)



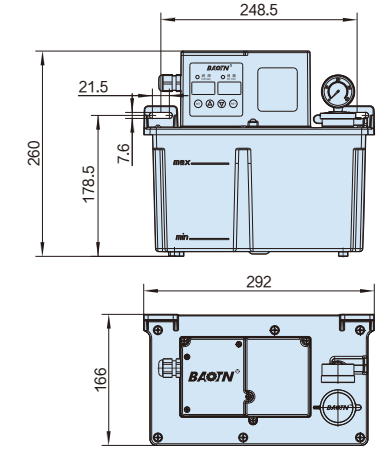
BTA-A2P3
(树脂油箱 Resin oil tank)



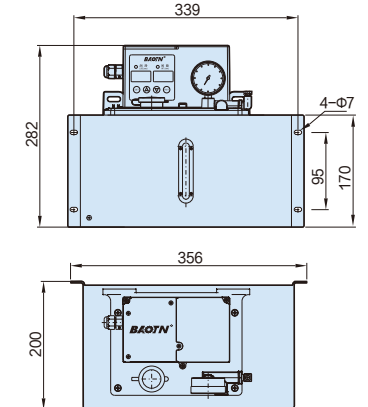
BTA-A2P6
(钣金油箱 Sheet metal oil tank)



BTA-A2P4
(树脂油箱 Resin oil tank)



BTA-A2P8
(钣金油箱 Sheet metal oil tank)



BTA-C2 型(Type)

PLC 控制稀油润滑泵 PLC control thin oil lubricating pump

间歇型电动稀油润滑泵 (齿轮泵) Intermittent electric thin oil lubricating pump (gear pump)

订货编制说明 Order description

BTA-C2 □ □ - □ □ □ □ □ □

压力开关 Pressure switch	油箱 Oil tank
P 压力开关 Pressure switch	空白 树脂油箱 Blank Resin oil tank
空白 无 Blank None	A 金属油箱不带回油装置 Metal oil tank without oil return device
	H 金属油箱带回油装置 Metal oil tank with oil return device
油箱容积 Oil tank volume	液位开关 Liquid level switch
2 2L	D 上通电 Upper power supply
3 3L	空白 下通电 Blank Lower power supply
4 4L	
6 6L	出口管径 Outlet pipe diameter
8 8L	6 接Φ6管 Connected to Φ6 pipe
电机类型 Motor type	吐油量 Throughput
1 单相 110V Single phase 110V	2 200cc/min
2 单相 220V Single phase 220V	5 150cc/min
9 DC24V	

*吐油量: 1、当油箱容积2L时为150cc/min
2、当油箱容积3L及以上时为200cc/min
*Throughout: 1. 150cc / min when the tank volume is 2L
2. 200cc / min when the tank volume is 3L and above



性能与特点

- 设有液位开关、压力开关 (可选配)。当油量或压力不足时可将异常信号输出。
- 面板指示灯可显示出注油机的通电和润滑状态。
- 系统中设有“FEED”键，可强制润滑。
- 时间设定：单次最长润滑时间≤2min，间歇时间通常为润滑时间的5倍以上。
- 电机设有自我保护功能，防止电机温度过高及过载。
- 在容积式系统中设有脱压装置，需配合BFA/BFB/BFC/BFD/BFE/BFG分配器使用，参考03~08页。
- 设有溢流阀，可保护注油机及管路由于压力过高而损坏。
- 内部配有保险丝防止短路导致电流过大烧坏IC板和电机。

Performance and characteristics

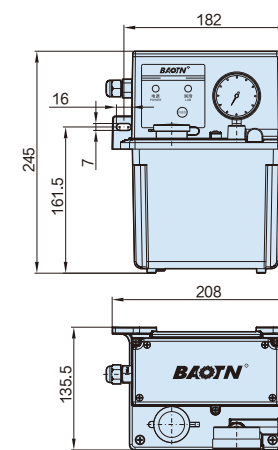
- Liquid level switch and pressure switch (optional) are provided. When oil volume or pressure is insufficient, abnormal signal is output.
- The panel indicator light indicates power and lubrication status of the oil injection mold.
- The system is provided with FEED key, and compulsory lubrication is applied.
- Time setting: single maximum lubrication duration≤2min, and intermittent time shall be 5 times of the lubricating time.
- The motor is provided with self-protection to prevent high temperature and overload of motor.
- The volumetric system is provided with decompression device, used with BFA/BFB/BFC/BFD/BFE/BFG distributor, Refer to page 03~08.
- Overflow valve is provided to prevent damage by oil injector and pipeline.
- Internal fuse is provided to prevent IC board and motor damaged by short circuit.

规格型号及技术参数 Specifications, models and technical parameters

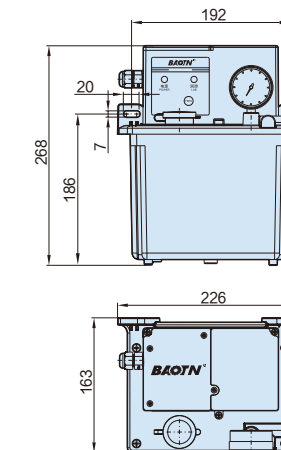
项目Item 型号规格 Models and specifications	电机Motor		润滑时间 Lubricating time (S)	间歇时间 Intermittent time (M)	额定压力 Rated pressure (MPa)	最大输出压力 Maximum output pressure	吐油量 Throughput (cc/min)	出油管径 Outlet oil pipe diameter	压力开关 Pressure Switch	液位开关 Liquid level switch	蜂鸣器 Beeper	油箱容量 Oil tank volume (L)	重量 Weight (KG)
	电压 voltage (V)	功率 Power (W)											
BTA-C2	AC110 or AC220	20	由外部 PLC 控制 Controlled by an external PLC		1.5~1.7	2.5	150 200	Φ 6	可选配 Optional	上通电 或 下通电 Power supply at upper or lower position	无 No	2 (树脂 Resin) 3 (树脂 Resin) 4 (树脂 Resin) 4 (钣金 Metal plate) 6 (钣金 Metal plate) 8 (钣金 Metal plate)	2.90 3.20 3.30 5.70 6.00 6.50



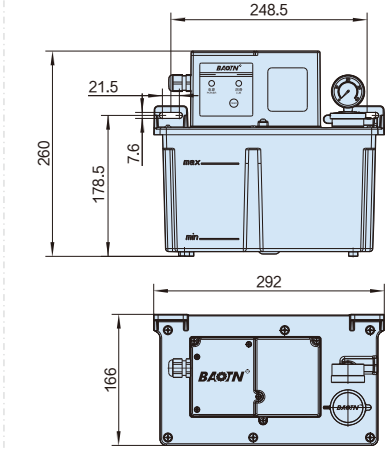
BTA-C2P2
(树脂油箱 Resin oil tank)



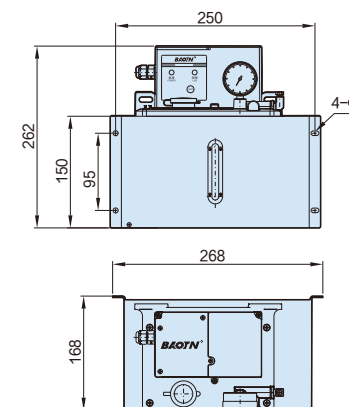
BTA-C2P3
(树脂油箱 Resin oil tank)



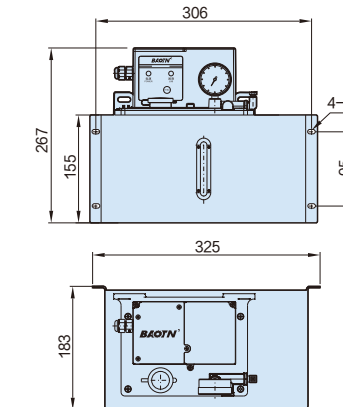
BTA-C2P4
(树脂油箱 Resin oil tank)



BTA-C2P4
(钣金油箱 Sheet metal oil tank)



BTA-C2P6
(钣金油箱 Sheet metal oil tank)



BTA-C2P8
(钣金油箱 Sheet metal oil tank)

