



上海鼎羿 DYLUB

Lubrication system for Mining
and Construction Equipment
矿山与工程机械行业

上海鼎羿 DYLUB

Tel: 0086 021-54241996

E-mail: sales@dingyifluid.com

Address: Building 1, No. 552, Liancao Road, Minhang District, Shanghai

www.dylub.com

www.dingyi-fluid.com

集中润滑系统
Centralized Lubrication Systems

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Construction Equipment
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深耕流体润滑技术，打造安全、稳定、节能、高效的高品质产品，为工业客户的生产经营筑牢防线。

鼎羿的分布
DYLUB FOOTPRINT

Urumqi Office

Longkou Factory

Hongkong Office

Headquarter: Shanghai

通过高端设备以及独特的加工流程，使柱塞加工精度达到 $2-3\mu$ ，分配器内部工作面进一步的热处理以及加工工艺，使用更加耐久和稳定，可维修性得到大幅提升

All plungers and cavities for pumps and distributors undergo Dingyi's unique heat treatment process to extend service life.

为了减少由于柱塞与腔体的长期磨损而导致的故障，鼎羿行业内首创金属底座

In order to reduce the failure caused by long-term wear of the plunger and cavity, Dingyi is the first metal base in the industry.

Deeply engages in fluid lubrication technology, creates safe, stable, energy-saving and efficient high-quality products, and builds a line of defense for industrial customers' production and operation.





以流体精密，筑就卓越品质； 以全球视野，赋能工业未来。

上海鼎羿流体科技有限公司成立于2010年，是一家集润滑设备和机械设备的研发、设计、生产、销售及技术服务于一体的综合性企业。我们致力于将国际先进的润滑理念、技术和设备为全球客户提供世界领先的润滑设备解决方案，满足其设备润滑和健康管理的需求，助力企业实现更高的效率和更佳的性能。

鼎羿已获得ISO 9001:2015质量管理体系认证和ISO 14001:2015环境管理体系认证。我们拥有一支专业的销售、技术支持和售后服务团队，以及一支专属的安装团队。凭借多年积累的实践经验，我们能够为客户提供全方位的售前售后服务，包括技术咨询、系统选型、设计、现场指导、安装和培训。丰富的经验是我们高水平专业技术和服务的基石。我们将继续致力于探索和创新，努力为客户提供高质量、高性价比的润滑系统解决方案。

目前，公司业务已广泛应用于盾构、矿山、冶金、港口运营和自动化生产等众多行业。我们秉承专注、专业、敬业、负责的核心价值观，坚持客户至上、互利共赢的合作原则，竭诚为客户提供真诚周到的服务！

Established in 2010, we are an integrated enterprise engaged in the R&D, design, manufacture, sales and technical service of lubrication and mechanical equipment. We introduce cutting-edge global lubrication technologies to deliver premium lubrication solutions worldwide, supporting equipment lubrication and asset management to boost clients' operational efficiency.

Our company holds ISO 9001:2015 Quality and ISO 14001:2015 Environmental Management System Certifications. We have professional sales, technical, after-sales and dedicated installation teams. Backed by years of practical experience, we offer full-cycle services including technical consultation, model selection, design, on-site installation guidance and training. We keep innovating to deliver high-quality, cost-effective lubrication systems.

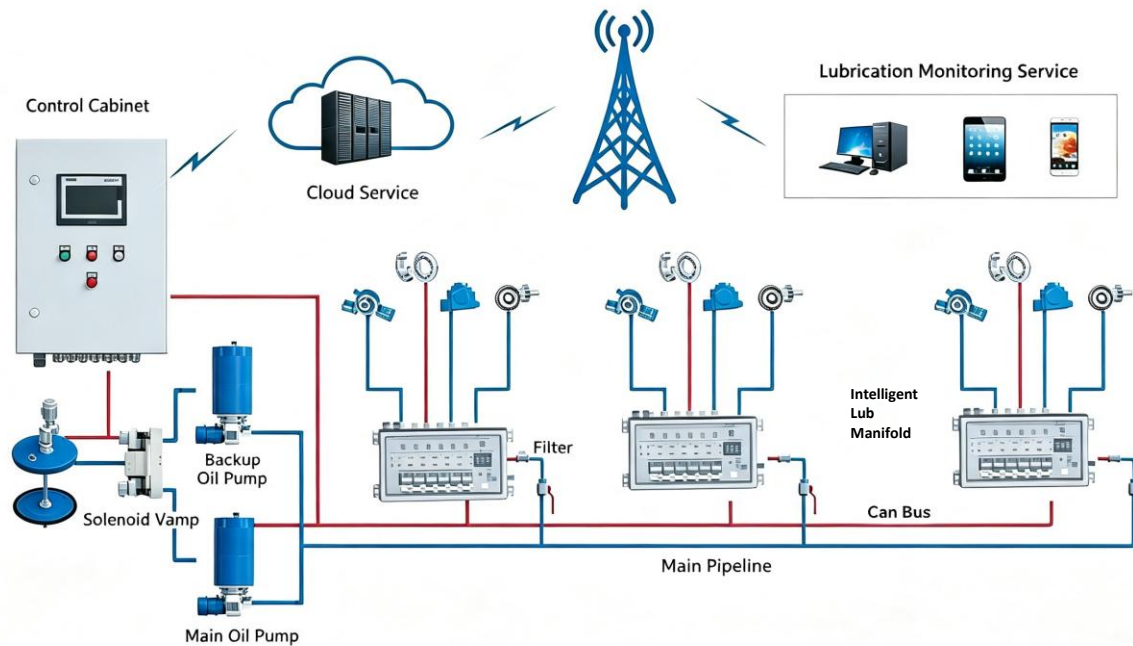
Our solutions serve shield tunneling, mining, metallurgy, ports and automated manufacturing. Guided by our core values of focus, professionalism, dedication and responsibility, we stick to customer-oriented win-win cooperation and provide thoughtful, reliable services for all partners.



Solution Provider, Quality Focus, Sustainability



智能润滑系统 Intelligent Lubrication System



智能润滑系统由电动润滑泵、补油泵、智能电控单元、新一代智能分油箱、环保配管及智能传感网络组成。

新一代智能分油箱：集成 AI 控制模块、多物理场传感器，适配生物基润滑介质；
智能电控单元：搭载边缘计算、数字孪生模型及移动端智能交互功能。

- 采用电磁先导阀 + 柱塞容积计量阀复合结构，控制简单、计量精准；杠杆驱动使阀芯驱动力提升 5 倍，卡阀故障率 $\leq 0.01\%$ ，可靠性提升 5 倍；
- 各润滑点独立可控，可同步 / 单独工作，支持随机启停、精准计量；
- 支持就地 / 远程状态监控与故障报警；
- 实时检测计量阀阀芯位置，阀体耐压、防卡滞；
- 彻底解决传统阀 + 流量计方案易堵塞、易泄漏问题；
- 解决传统电磁给油器推力不足、阀芯动作异常、线圈发热、寿命短等缺陷；
- 可对接温度、振动传感器，形成闭环控制，动态调油量、预判设备故障；
- 阀芯阀孔经精密工艺加工，微米级配合精度，使用寿命提升 10 倍以上；
- 模块化铝合金轻量化设计，体积减小 30%、重量减轻 25%、维护工时减少 60%。



The intelligent lubrication system consists of an electric lubrication pump, electric refilling pump, intelligent ECU, new-generation intelligent distribution valve, eco-friendly piping and intelligent sensor network.

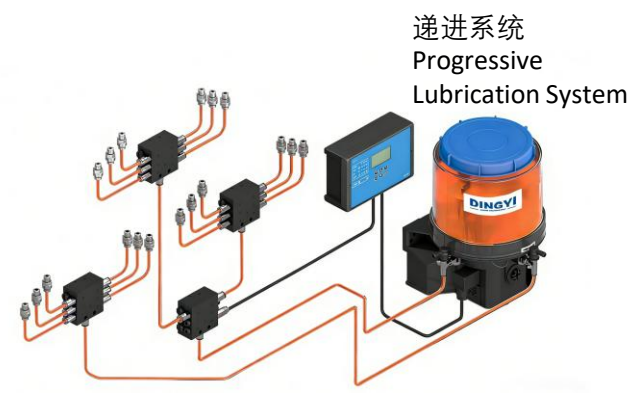
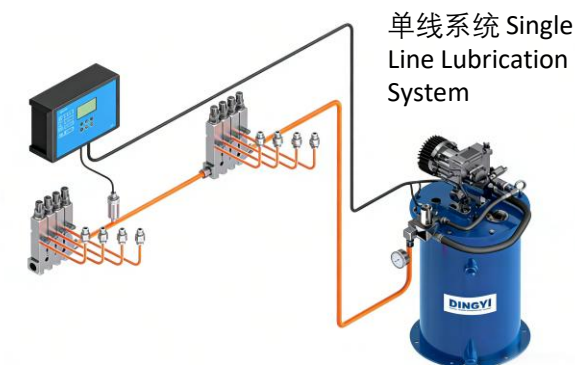
Key R&D Highlights:

- New-generation intelligent distribution valve: Integrated AI control module, multi-physical field sensors and bio-based media compatible structures
- Intelligent ECU: Embedded with edge computing nodes, digital twin models and mobile terminal interaction system

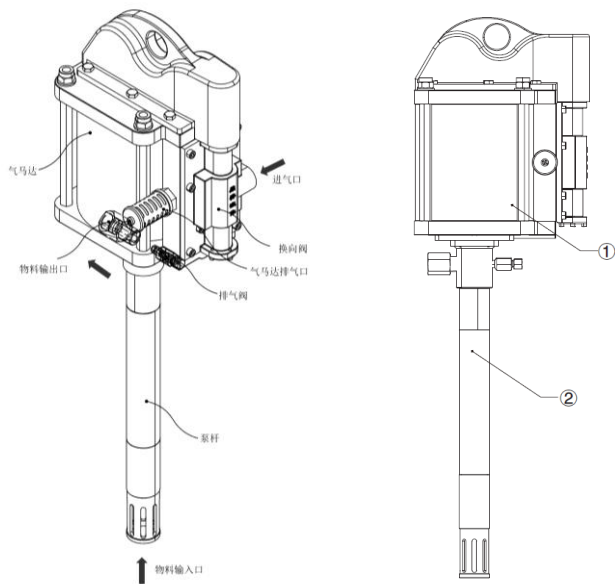
Technical Innovations

- Adopts stacked electromagnetic pilot valve and plunger positive displacement metering valve for simple control and high metering accuracy. Lever drive delivers 5 times spool driving force of standard solenoid valves; valve jamming failure rate below 0.01%, reliability improved 5-fold
- All lubrication points work independently and can operate synchronously or asynchronously
- Random activation of each lubrication point with precise metering
- Local and/or remote real-time status monitoring
- Local or remote alarm support
- Real-time spool position detection for each metering valve
- High-pressure resistant and anti-jamming internal structure of metering valve
- Resolves blockage and leakage issues of traditional 2/2-way on-off valve & flowmeter systems
- Eliminates drawbacks of 4/2-way electromagnetic lubricators: insufficient thrust, incomplete spool movement, coil overheating and short service life
- Forms closed-loop system with temperature, vibration sensors to dynamically adjust lubricant supply and predict equipment status
- Spools and valve bores processed by carbonitriding, honing and match grinding to achieve micron-level precision, extending service life over 10 times
- Modular lightweight design with high-strength aluminum alloy: 30% smaller volume, 25% lighter weight, 60% less maintenance workload

集中润滑系统分类/Centralized Lubrication Systems



气动泵 Air Pump-Mining



- 产品特点:
- 模块化, 便于维修
 - 超低噪音设计
 - 特有的材料与热处理技术带来超长的使用时间
 - 适用于无流动性的高黏度介质

- 应用场景:
- 适用于矿山、工程机械、集中润滑系统等场景

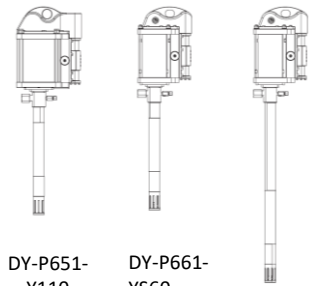
- Product Features
- 1.Modular design for easy maintenance
 - 2.Ultra-low noise construction
 - 3.Proprietary material formulas and heat treatment technologies deliver an extra-long service life
 - 4.Compatible with non-flowing, high-viscosity media

Application:
Suitable for mining, construction machinery, centralized lubrication systems and other working conditions

气动泵型号 Air Pump Model

序号 Item	名称 Description	编号 P/N	规格 Spec	数量 Qty	备注 Note
1	气动泵 Air pump	681-0000-000	DY-P681-200	1	总成 Assy
1.1	气马达 250mm air motor	681-1000-000	250mm	1	
1.2	泵杆 200cc pump tube	681-2000-000	200cc	1	
2	气动泵 Air pump	651-0000-000	DY-P651-110	1	总成 Assy
2.1	气马达 200mm air motor	651-1000-000	200mm	1	
2.2	泵杆 110cc pump tube	651-3000-000	110cc	1	
3	气动泵 Air pump	661-0000-000	DY-P661-60	1	总成 Assy
3.1	气马达 140mm air motor	661-1000-000	140mm	1	
3.2	泵杆 60cc pump tube	661-3000-000	60cc	1	

DY-P661



DY-P651-Y110
DY-P661-YS60
DY-P661-YL60

规格 Model	DY-P651-Y110	DY-P661-YS60	DY-P661-YL60
气马达活塞直径 Air Motor Piston Diameter	200mm	140mm	140mm
空压压力范围 Air supply pressure	40-100psi(3-7bar)	40-100psi(3-7bar)	40-100psi(3-7bar)
气源入口尺寸 Air inlet connection	PT3/4"(F)	PT3/4"(F)	PT3/4"(F)
气马达活塞冲程 Air Motor Piston Stroke	142mm	142mm	142mm
流体压力比 Fluid Pressure Ratio	65:1	66:1	66:1
泵杆每循环排量 Displacement Per Pump Rod Cycle	110cc	60cc	60cc
每升循环次数 Cycles Per Liter	9.1次/升 9.1/L	16.7次/升 16.7/L	16.7次/升 16.7/L
最大工作压力 Max. Working Pressure	6597psi(455bar)	6699psi(462bar)	6699psi(462bar)
出油口尺寸 Fluid Outlet Thread	PT3/4"(F)	PT3/4"(F)	PT3/4"(F)
外形尺寸(WxH) Overall Dimension (W×H)	313x1006(mm)	260x980(mm)	260x1335(mm)
重量 Weight	50.4kg	40kg	42.3kg

递进电动泵 Electric pump Progressive Lubrication system

DY-P204 电动泵 Electric Pump

The DY-P204 centralized lubrication pump is a high-performance, heavy-duty compact multi-line pump capable of driving up to 4 pumping elements, designed for progressive automatic lubrication systems. Ideal for mobile equipment, small and medium-sized machinery and general industrial applications. Versatile, compact and cost-effective, these pumps can be fitted with low-level monitoring and printed circuit board (PCB) controls. Models are available with 1, 2, 3 or 4 pumping elements featuring adjustable output. Reservoir capacities are 3 L, 6 L and 9 L. Please refer to the pump selection guide for the full range of available pump configurations.



DY-P204 集中润滑泵是一款高性能紧凑型多线泵，最多可搭载 4 个泵芯，适用于递进式自动润滑系统。产品适配移动设备、中小型机械及通用工业场景。该泵功能丰富、结构紧凑、性价比高，可加装低位油位监测与电路板控制模块。可选配 1/2/3/4 组可调排量泵芯，油箱容积分为 3 升、6 升、9 升。完整泵型配置请查阅泵选型指南。

* 鼎羿产品有齐全的电动泵系列，更多产品请联系鼎羿或经销商！
Dingyi offers a comprehensive range of electric pumps. For more product information, please contact Dingyi or authorized distributors!

项目 Item	参数 Specification
最大工作压力 Max. pressure	350 bar
额定电压 Rated voltage	24 VDC
泵芯数量 Number of pump elements	4
R7 每分钟输出流量 Output (R7)	1.4~5.0 cc/min
额定转速 Rated speed	19 r/min
功率 Power	72 W
工作电流 Current	3 A (24 VDC)
适用润滑介质 Lubricants	Up to NLGI Grade 2 grease NLGI 2 号润滑脂
驱动方式 Driven	24 VDC
补油方式 Refilling	Top refill / Bottom refill 顶部和底部
工作时长 Working time	Adjustable 可调
油箱容积 Reservoir	3 L, 6 L, 9 L (optional)
可选传感器 Sensor option	Low-level, high-level 高低位
防护等级 Protection grade	IP69
重量 Weight	50.4kg

- 3 L, 6 L, 9 L reservoir options
- Oil or grease version available, equipped with corresponding level sensor
- Optional MCB-204 control box (with / without)

- 可选 3L、6L、9L 油箱
- 支持润滑油 / 润滑脂两种机型
- 搭配对应油位传感器
- 可选择配置或不配置 MCB-204 控制盒



电动泵KSP/Electric pump KSP



项目 Item	参数 Specification
功率 Power	0.4 kW
排量 Output	85 cc/min 85cc/分
转速比 Speed ratio	100 : 1
适用油脂 Compatible grease	Up to NLGI Grade 2 NLGI 2 号润滑脂
最大工作压力 Max. working pressure	350 bar
油箱容积 Reservoir capacity	27 L / 41 L
泵出口螺纹 Pump outlet thread	R 3/8
泵工作电压 Pump operating voltage	24 VDC

- 最高 350bar 工作压力，适配双线 集中润滑系统，满足工程机械、矿山设备、重型车辆远距离多点供油。Max. working pressure: 350 bar. Compatible with Double-line/single-line/progressive centralized lubrication systems to realize long-distance multi-point grease supply for construction machinery, mining equipment and heavy vehicles.
- 24V 直流供电，适配移动设备 24V DC power supply for mobile equipment
- 流量 75cc/min，支持 NLGI 000# ~ 2# 润滑脂；100:1 大减速比电机，扭矩充沛，低温吸脂稳定。Output flow: 75 cc/min, compatible with NLGI 000# ~ Grade 2 grease. The motor adopts 100:1 high reduction ratio with ample torque and stable grease suction performance at low temperatures.
- 提供 27L、41L 储脂罐，降低补脂频率，适配长时间连续作业。27 L and 41 L grease reservoirs are available to reduce refilling frequency and suit long-duration continuous operation.

DY.87.41 单线润滑系统电动泵 Single-line Electric Pump



DY.87.41 电动泵 Electric Pump

- 最高 350bar 工作压力，适配单线 式集中润滑系统，满足工程机械、矿山设备、重型车辆远距离多点供油。Max. working pressure: 350 bar. Compatible with single-line/progressive centralized lubrication systems to realize long-distance multi-point grease supply for construction machinery, mining equipment and heavy vehicles.
- 24V 直流供电，适配移动设备 24V DC power supply for mobile equipment
- 流量 90cc/min，支持 NLGI 000# ~ 2# 润滑脂；80:1 大减速比电机，扭矩充沛，低温吸脂稳定。Output flow: 90 cc/min, compatible with NLGI 000# ~ Grade 2 grease. The motor adopts 80:1 high reduction ratio with ample torque and stable grease suction performance at low temperatures.
- 提供 27L、41L 储脂罐，降低补脂频率，适配长时间连续作业。27 L and 41 L grease reservoirs are available to reduce refilling frequency and suit long-duration continuous operation.

项目 Item	参数 Specification
功率 Power	0.24 kW
排量 Output	90 cc/min 90cc/分
转速比 Speed ratio	80 : 1
适用油脂 Compatible grease	Up to NLGI Grade 2 NLGI 2 号润滑脂
最大工作压力 Max. working pressure	350 bar
油箱容积 Reservoir capacity	27 L / 41 L
泵出口螺纹 Pump outlet thread	R 3/8
泵工作电压 Pump operating voltage	24 VDC

双线分配器-Dual-Line Metering device



- 模块化，设计灵活
 - 维护简单，检修时无需拆管
 - 只需拧下2个螺丝就可更换计量块
- 排量

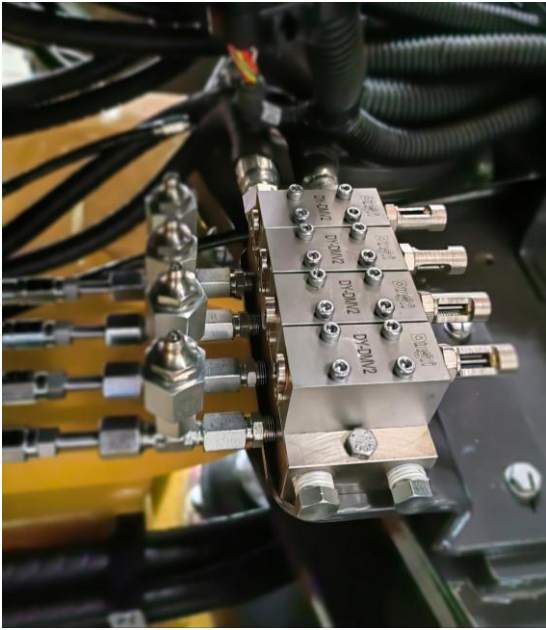
- DR-3: 0.15-3.0cc,可调
- DR-5: 0.5-24 cc,可调

- DR 模块式双线分配阀出口:2,4,6,8,10, 12.
- 最大工作压力:400 bar
- 工作温度:-30°C至80°C
- 材质:碳钢, 镀镍;或316不锈钢
- 最大循环速度:100次/分钟
- 入口螺纹:3/8" BSP
- 出口螺纹:1/4" BSP
- 润滑剂:40°C时100cSt以上油，最高NLGI2#脂

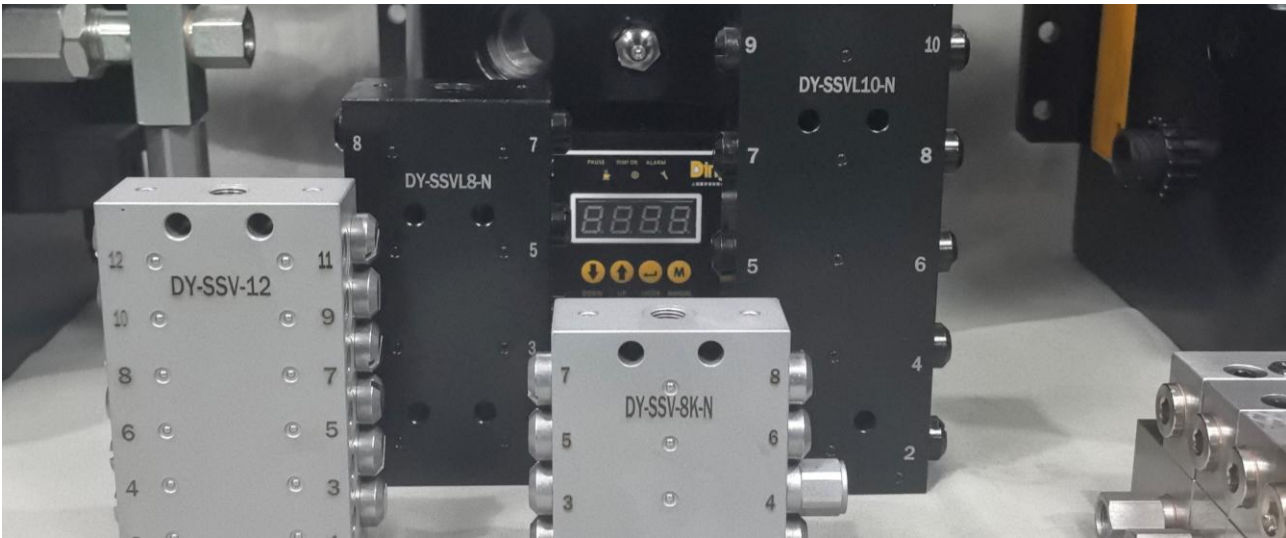
Features of Dual-Line Metering Device

- Modular design with high flexibility
 - Easy maintenance; pipe disconnection is not required during inspection
 - Metering element can be replaced simply by unscrewing 2 screws
- Displacement
- DR-3: 0.15–3.0 cc, adjustable
 - DR-5: 0.5–24 cc, adjustable

- DR-DF Modular Dual-Line Distributor
- Outlet ports: 2, 4, 6, 8, 10,12
- Max. working pressure: 400 bar
- Operating temperature: -40°C ~ 80°C
- Material: Carbon steel with nickel plating; or 316 stainless steel
- Max. cycling speed: 100 cycles/min
- Inlet thread: 3/8" BSP
- Outlet thread: 1/4" BSP
- Lubricant: Oil with viscosity ≥100 cSt @ 40°C, grease up to NLGI Grade 2



递进分配器
 DY-SSV/Progressive Metering Device
 DY-SSV



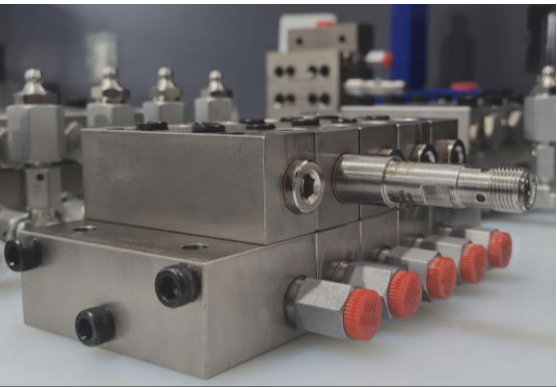
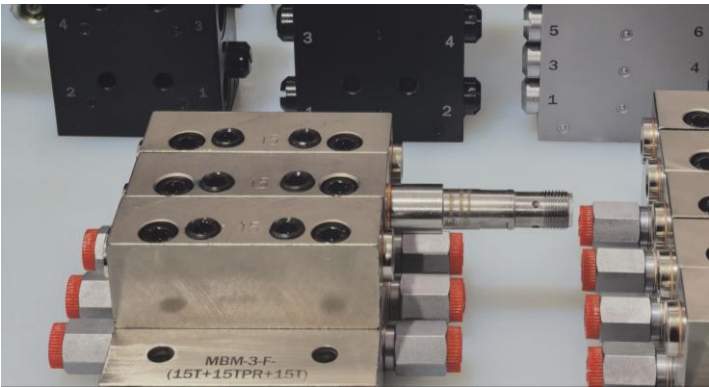
项目 Item	DY-SSV Series 规格 Specification	DY-SSVL Series 规格 Specification
结构形式 Construction Type	Block-style progressive distributor	Block-style progressive distributor
出口数量 Number of outlets	6–22	6–14
适用润滑剂 Compatible lubricants	Grease: Up to NLGI Grade 2 NLGI 2 号润滑脂 Oil: Viscosity > 40 cSt 润滑油 > 40 cSt	Grease: Up to NLGI Grade 2 NLGI 2 号润滑脂 Oil: Viscosity > 40 cSt 润滑油 > 40 cSt
单出口每循环排量 Output per outlet per cycle	0.2 cc	0.2 cc
工作压力范围 Operating pressure range	20–350 bar (max.)	20–350 bar (max.)
两出口口最大压力差 Max. pressure difference between outlets	100 bar	100 bar
进油口尺寸 Inlet port size	G1/8	R1/4
出油口连接管径 Outlet tubing diameter	Φ4, Φ6	Φ6, Φ8, Φ10, Φ12
出油口尺寸 Outlet port size	M10×1	1/4"
工作温度 Operating temperature	-40°C ~ +80°C	-40C ~ +80°C
材质 Material	Carbon steel with black chromium plating, stainless steel 碳钢镀黑铬、不锈钢	Carbon steel with black chromium plating, stainless steel 碳钢镀黑铬、不锈钢

单线注油器/Single Line Injector

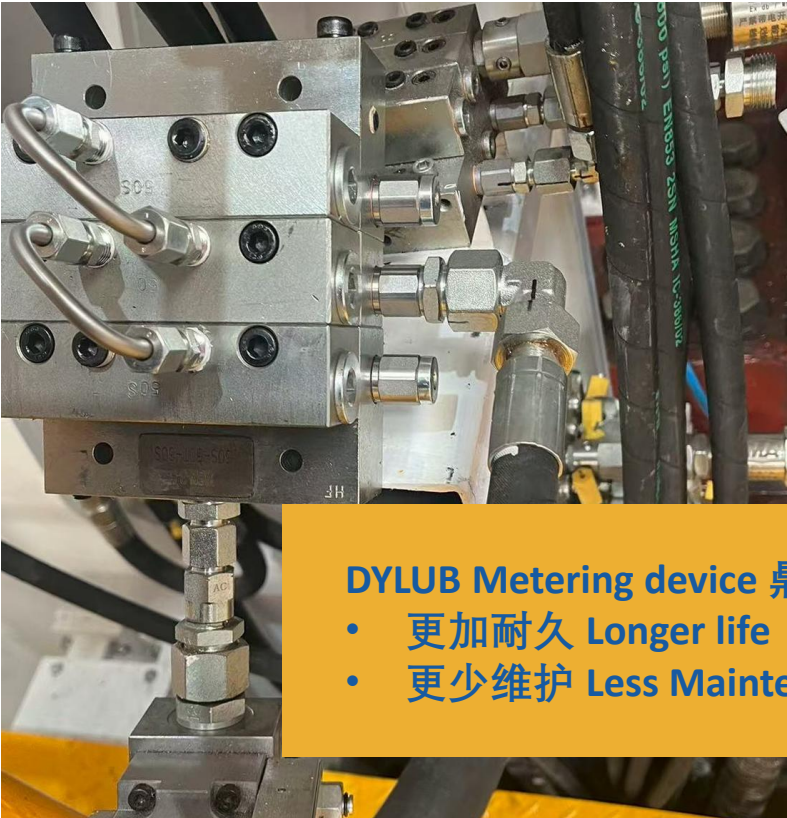
项目 Item	DY-SL-1 Series	DY-SL-V Series
出口数量 Number of outlets	1-6	1-6
适用润滑剂 Compatible lubricants	Up to NLGI Grade 2 NLGI 2 号润滑脂	Up to NLGI Grade 2 NLGI 2 号润滑脂
单出口每循环排量 Output per outlet per cycle	0.131--1.31 cc	0.2 5-1.31 cc
工作压力范围 Operating pressure range	127-241bar (max.)	125–413 bar (max.)
泄压压力 Vent pressure	41 bar	60 bar
进油口尺寸 Inlet port size	G1/8, or NPT1/8	G1/8, or NPT1/8
出油口尺寸 Outlet port size	G3/8, or NPT3/8	G3/8, or NPT3/8
工作温度 Operating temperature	-40°C ~ +80°C	-40°C ~ +80°C
材质 Material	Carbon steel with black chromium plating, stainless steel 碳钢镀黑铬、不锈钢	Carbon steel with black chromium plating, stainless steel 碳钢镀黑铬、不锈钢



递进分配器
 MBM Metering Device-Progressive Lubrication



项目 Item	参数 Specification
最大工作压力 Max. working pressure	300 bar
最大工作频率（无指示杆） Max. cycling frequency (without indicator pin)	Max. 200 cycles/min
最大工作频率（带指示杆） Max. cycling frequency (with indicator pin)	Max. 60 cycles/min
阀体组合数量 Number of valve sections	3–8
最大输入油量 Max. inlet oil flow (ISO VG 32)	550 cc/min
工作温度范围 Operating temperature range	NBR or Viton O-ring: -40°C ~ +100°C
适用润滑剂 Compatible lubricant	NLGI 000 ~ Grade 2
进油口螺纹 Inlet port thread	G 1/4 (F)
出油口螺纹 Outlet port thread	G 1/8 (F)
工作电压范围 Operating voltage range	10 ~ 30 VDC
最大负载电流 Max. load current	≤ 100 mA
输出类型 Output type	PNP-NO (3.3 mm)
防护等级 Protection grade	IP67



DY-LUB Metering device 鼎羿分配器

- 更加耐久 Longer life
- 更少维护 Less Maintenance

更多的产品以及产品应用 More Products and Mining and Construction Applications



主要客户 Our Customers

