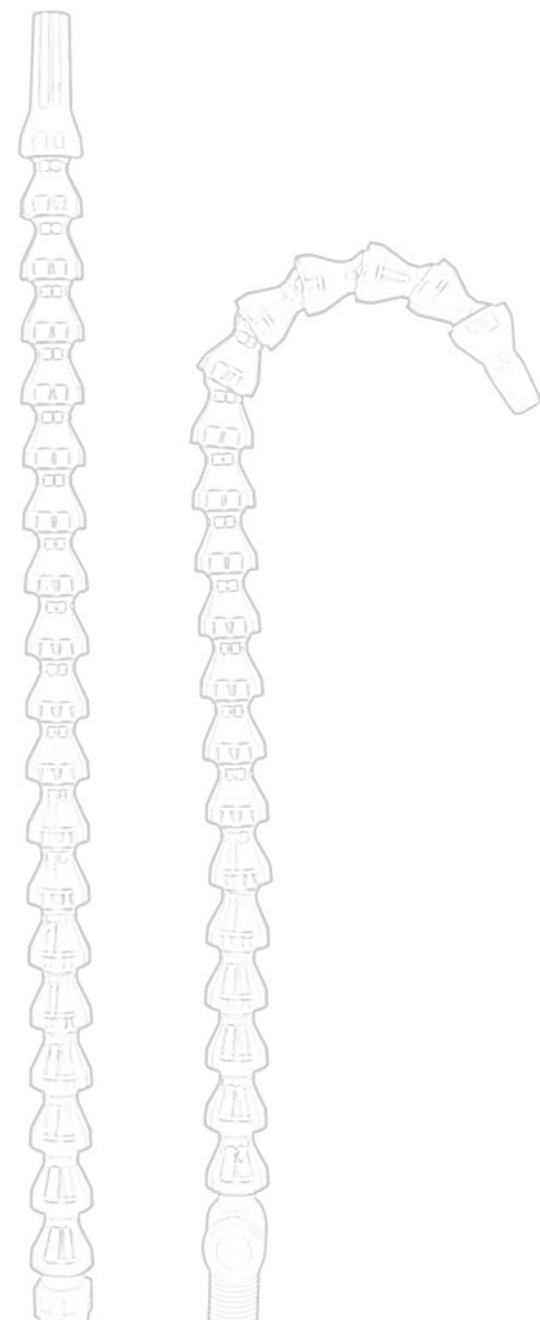


ADJUSTABLE COOLANT HOSES



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万向曲管编码与订货说明

Adjustable coolant hoses Article No.



左图配色方案: C212(默认), 可选用颜色详见色卡

代号 Code	名称 Name	颜色及色卡号 Color card no.
C1	天青蓝 Azure blue	RAL 5009
C2	亮红橙 Bright red orange	RAL 2008

说明 Introductions:

- a) 成品代号, 是指产品的内径大小, 如: “内径为 1/4”, 在零件里代码表示为 82...”
- b) 接头代号, 是指零部件中接头的序号 (01~30), 如: 2201 接头代号是 01...
- c) 喷嘴代号, 是指零部件中喷嘴的序号 (51~99), 如: 2364 圆喷嘴代号是 64...
- d) 产品节数, 是指管体的节数, 不包含接头和喷嘴;
- e) 对颜色螺纹有要求, 需备注。
- a) Trimmed code, refers to the inner diameter of the products, eg: inner diameter is 1/4", the code of parts is 82...
- b) connector code, refers to the number (01~30) of connector with parts, eg:2201 the connector code is 01...
- c) Nozzle code, refers to the number (51~99) of nozzle voith parts, eg: 2364 the round nozzle code is 64...
- d) Product link, refers to the link number of the pipe body, not included connector and nozzle.
- e) If you have special requirements for color and thread, please note.



产品规格及零部件、附件分类表 Product specification and pats classification table

产品规格 Product Specification		零部件 / 附件分类 Classification of parts / accessories	
规格 Size	代码 Code	名称 Description	代码 Code
1/4"	82	管体 Pipe body	1
3/8"	83	接头 Connector	2
1/2"	84	喷嘴 Nozzle	3
3/4"	86	转接头 Adaptor	4
		附件 Accessory	5

万向曲管介绍

Universal introduction of Adjustable coolant hoses

万向曲管，工程塑料冷却管是液体及气体煤质的综合引导系统，压强可以达到 0.5Mpa，它是用高质量的工程塑料制作而成，它的各个节使用精密的注塑工艺制成，其各节点连接接触面经过精确的计算并使用很高的注塑技术制造而成。可调塑料冷却管无需加任何导管，仅靠自身接触曲面即可有极好的密封性。其接触面的紧密配合足以保证在高压水的冲击作用下，冷却水管始终保持其初始位置不变。可调塑料冷却管为真正意义上的模块式结构，不但可根据需要任意增加或减少节数，并且可以在各节间根据需要加装开关，且有不同的连接与出水。而且还有一进两出的三通，工程塑料冷却管材质为杜邦 POM，出水嘴型有圆嘴、扁嘴、多孔扁嘴和大口径圆嘴型，接头有带牙直通接头、带开关接头、固定接头等是根据客户需求装置。

Adjustable coolant hoses: engineering plastic cooling pipe. It is a combination guidance system of liquid and gas media. The pressure can reach 0.5Mpa. It is made of high quality engineering plastics, its various sections made use of precision injection molding process, and contact surface of all connective nodes is made used of high injection molding technology after precise calculation. Adjustable coolant hoses have excellent sealing only on its own contact surface and without any catheter. Its closely contact enough to guarantee that coolant hose is always keep its initial position unchanged under the impact of high pressure water. Adjustable coolant hose is in the true sense of modular structure, it not only can use either increase or decrease link number, but also can be added switch in each links according to need with different connection and water outlet. Adjustable coolant hoses is made of DuPont POM. Its water mouth has a round nozzle, flat nozzle, porous flat nozzle and large diameter round nozzle. Its connector is threaded through connector, switch connector and fixed connector. All these can be assembled according to customer demand.

曲管压力与流量的特性 Characteristic hose pipe pressure and flow

尺寸 Size	建议操作压力 Recommended operating pressure	流量 Flow
1/4" 系列 Serie	2.0~3.0 kg/cm ²	900 公升 L/ 小时 H
3/8" 系列 Serie	2.0~3.0 kg/cm ²	1500 公升 L/ 小时 H
1/2" 系列 Serie	1.4~2.0 kg/cm ²	1700 公升 L/ 小时 H
3/4" 系列 Serie	0.7~1.4 kg/cm ²	1900 公升 L/ 小时 H

适用 Application

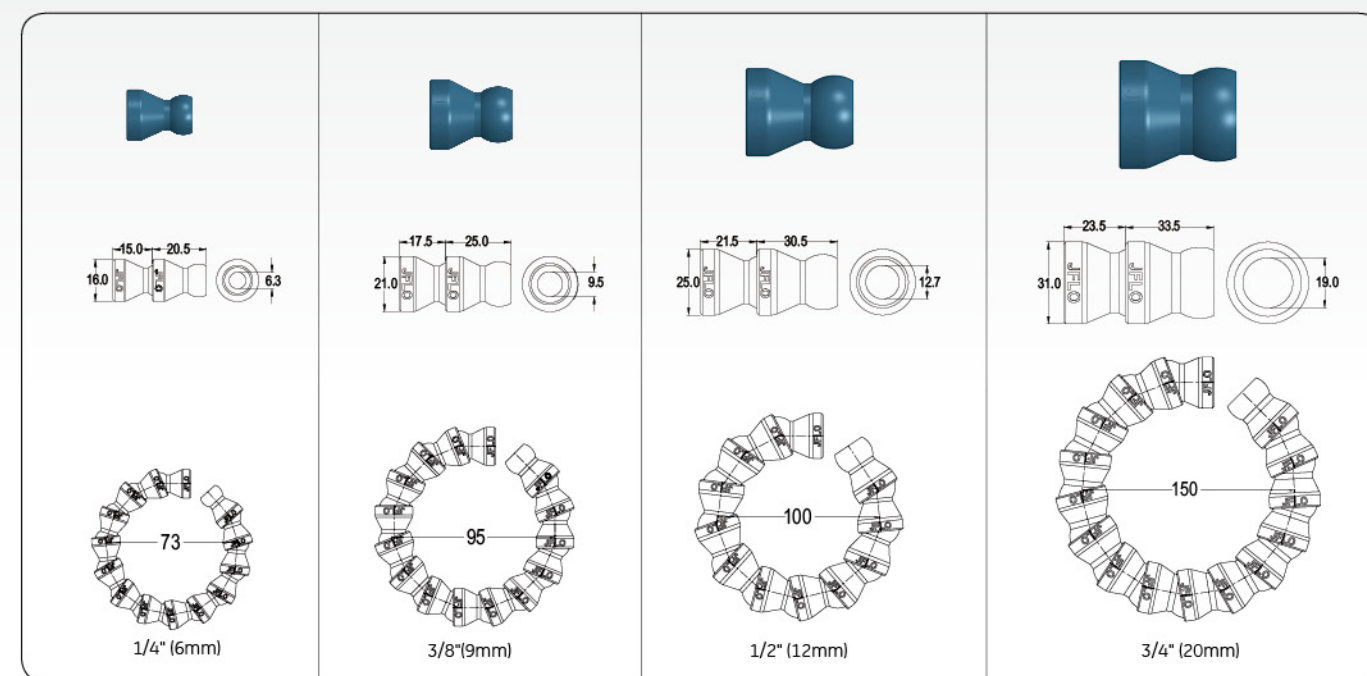
万向曲管适用于机床、液压机械、数控机床作油、水冷却系统配用，可任意调节使用长度、喷嘴直径大小圆扁互换、方向随意可转，具有外形色彩美观、油量大、不导电、耐腐蚀、耐高温等特点。

Adjustable coolant hose is suitable for the oil, water cooling system of machine tools, hydraulic machinery, CNC machine tools. It can arbitrary adjust use length, change the size of the nozzle diameter, exchange nozzle between round and flat, and convert direction freely. It is featured with colorful and beautiful appearance, large amount of oil, non-conductive, corrosion resistance, high temperature resistant.

品名 Description	适用 Applicable	不适用 Inapplicable	品名 Description	适用 Applicable	不适用 Inapplicable
乙醇 Ethanol	○		农药 Pesticide	○	
丙酮 Acetone	○		煞车油 Brake oil	○	
清洁剂 Detergent	○		酸 Acid		X
汽油 gasoline	○		强碱 Strong base		X
润滑油 Lube	○		氨类过氧化物 Ammonia kind of peroxide		X
酒精 Alcohol	○		次氯酸 Hypochloric acid		X
矿物油 Mineral oil	○		次氯酸钠 Sodium hypochlorite		X
氢氧化钠 Sodium hydroxide	○				

万向曲管参数和长度计算方法

Calculation method of the Adjustable coolant hoses combined length



注：单位（毫米）Unit :mm



接头尺寸 Connector size (A)	+	曲管本体尺寸 Pipe body size (B × 节数 Number of hoses)	+	喷嘴尺寸 Nozzle size (C)	=	总长 Overall length
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1/4" 10.0mm + 15.0mm × 节数 Number of hoses + 35.0mm = 总长 Overall length

3/8" 12.5mm + 17.5mm × 节数 Number of hoses + 39.5mm = 总长 Overall length

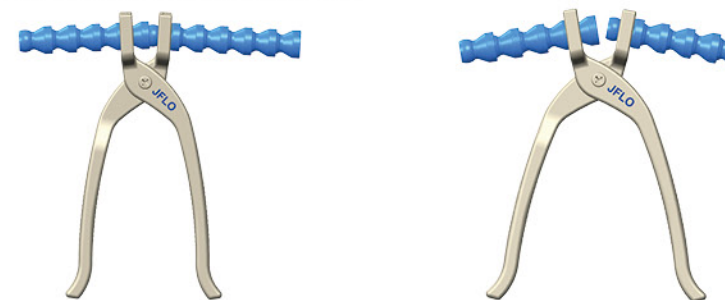
1/2" 14.5mm + 21.5mm × 节数 Number of hoses + 38.0mm = 总长 Overall length

3/4" 14.0mm + 23.5mm × 节数 Number of hoses + 43.0mm = 总长 Overall length

万向曲管的组装 Adjustable coolant hoses assembling

使用专用的曲管组装钳即可简单的拆装曲管。

With a special pliers, we can dismount and assemble curved pipe simply.



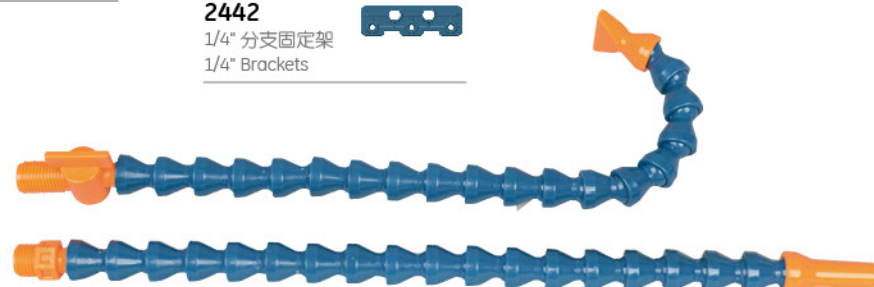
万向曲管配件组配表

1/4" 系列 Series

代号 Code	名称 Name	颜色及色卡号 Color card no.
C1	天青蓝 Azure blue	 RAL 5009
C2	亮红橙 Bright red orange	 RAL 2008

接头 Connector	转接头 Adaptor	喷嘴 Nozzle
2201 1/4" 外牙直通接头 G 螺纹 (默认), PT/NPT(选配) 1/4" Male connector G Screw thread(Default, PT/NPT(Optional)	2431 1/4" Y 型三通 1/4" Y Fitting	2355 1/4" 直喷扁嘴 1/4" DI Flat nozzle
2202 1/8" 外牙直通接头 G 螺纹 (默认), PT/NPT(选配) 1/8" Male connector G Screw thread(Default, PT/NPT(Optional)	2432 1/4" 双接头 1/4" Double Socket	2356 1/4" 直喷扁嘴 1/4" DI Flat nozzle
2206 1/4" 外牙开关组 G 螺纹 (默认), PT/NPT(选配) 1/4" Male Valve G Screw thread(Default, PT/NPT(Optional)	2433 1/4" 加长管体组 1/4" Extend Element Kit with Element Clamp	2369 3/8" 扇形扁嘴 3/8" Flare Nozzle
2207 1/4" 外牙开关组 G 螺纹 (默认), PT/NPT(选配) 1/4" Male Valve G Screw thread(Default, PT/NPT(Optional)	2101	2370 1" 扇形扁嘴 1" Flare Nozzle
82400 1/4" 歧管组 1/4" Manifold set 2442 1PCS 2437 3PCS 2434 1PCS	2434 1/4" 直角转接头 1/4" Elbow Fitting	2357 1/4" 多孔扁嘴 1/4" Porous flat nozzle
82410 1/4" 主道控制歧管组 1/4" Main control manifold set 2442 1PCS 2437 3PCS 2434 1PCS 2438 5PCS	2435 1/4" T 型圆嘴 1/4" Side Flow Nozzle	2358 1/4" 多孔扁嘴 1/4" Porous flat nozzle
82501 1/4" 简易拆卸钳 1/4" Simple Pliers	2436 1/4" 止水盖 1/4" End Cap	2359 2-1/2" 多孔扇形扁嘴 2-1/2" Swivel Nozzle
	2437 1/4" T 型三通 1/4" T Fitting	2371 1/4" 多孔扇形扁嘴 1/4" Swivel Nozzle
	2445 1/4" 管体开关组 1/4" Connection valve	2372 1/4" 多孔扇形扁嘴 1/4" Swivel Nozzle
	2438 1/4" 管体开关组 1/4" Connection valve	
	2439 1/4" 逆止阀 1/4" In-line check	
	2442 1/4" 分支固定架 1/4" Brackets	
		2362 1/16" 圆嘴 1/16" Round nozzle
		2363 1/8" 圆嘴 1/8" Round nozzle
		2364 1/4" 圆嘴 1/4" Round nozzle
		2365 1/16" 直角圆嘴 1/16" Right angle round nozzle
		2366 1/8" 直角圆嘴 1/8" Right angle round nozzle
		2367 1/4" 直角圆嘴 1/4" Right angle round nozzle
		2368 1/4" 直角多孔扁嘴 1/4" Right angle porous nozzle
		2360 1/4" 直流扁嘴 1/4" DF Flat nozzle
		注: 单位 (毫米) Unit :mm

820670-18



820164-18

注: 可根据客户要求定制非标螺纹及产品颜色。

Note: Non-standard threads and product color can be customized according to customer requirements.

注: 直喷: DI Note: "DI" indicates that Direct Injection
直流: DF "DF" indicates that Direct Flow

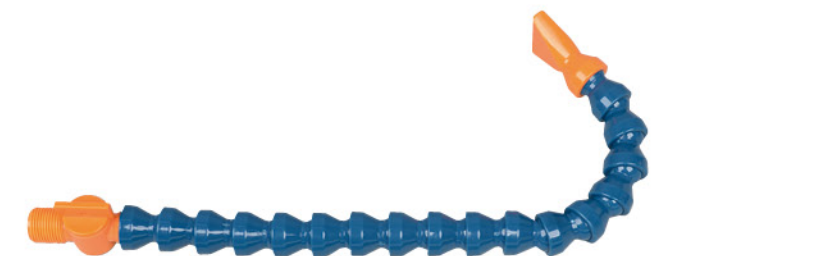
万向曲管配件组配表

3/8" 系列 Series

代号 Code	名称 Name	颜色及色卡号 Color card no.
C1	天青蓝 Azure blue	 RAL 5009
C2	亮红橙 Bright red orange	 RAL 2008

接头 Connector	转接头 Adaptor	喷嘴 Nozzle
3201 3/8" 外牙直通接头 G 螺纹 (默认), PT/NPT(选配) 3/8" Male connector G Screw thread(Default), PT/NPT(Optional)	3431 3/8" Y 型三通 3/8" Y Fitting	3362 1/4" 圆嘴 1/4" Round nozzle  $\Phi 6.3$
3202 1/2" 外牙直通接头 G 螺纹 (默认), PT/NPT(选配) 1/2" Male connector G Screw thread(Default), PT/NPT(Optional)	3432 3/8" 双接头 3/8" Double Socket	3363 3/8" 圆嘴 3/8" Round nozzle  $\Phi 9.6$
3203 1/4" 外牙直通接头 G 螺纹 (默认), PT/NPT(选配) 1/4" Male connector G Screw thread(Default), PT/NPT(Optional)	3440 3/8" 转 1/4" 接头 3/8" to 1/4" Adapter	3364 1/2" 圆嘴 1/2" Round nozzle  $\Phi 12$
3206 3/8" 外牙开关组 G 螺纹 (默认), PT/NPT(选配) 3/8" Male Valve G Screw thread(Default), PT/NPT(Optional)	3445 3/8" 管体开关组 3/8" Connection valve	3369 1-1/4" 扇形扁嘴 1-1/4" Flare Nozzle  $\Phi 3.2 \times 32L$
3207 3/8" 外牙开关组 G 螺纹 (默认), PT/NPT(选配) 3/8" Male Valve G Screw thread(Default), PT/NPT(Optional)	3438 3/8" 管体开关组 3/8" Connection valve	注: 单位 (毫米) Unit:mm
83501 3/8" 简易拆卸钳 3/8" Simple pliers	3439 3/8" 逆止阀 3/8" In-line check	

830669-17



830163-17



注: 可根据客户要求定制非标螺纹及产品颜色。

Note: Non-standard threads and product color can be customized according to customer requirements.

万向曲管配件组配表

1/2" 系列 Series

代号 Code	名称 Name	颜色及色卡号 Color card no.
C1	天青蓝 Azure blue	 RAL 5009
C2	亮红橙 Bright red orange	 RAL 2008

接头 Connector	转接头 Adaptor	喷嘴 Nozzle
4201 1/2" 外牙直通接头 G 螺纹 (默认), PT/NPT(选配) 1/2" Male connector G Screw thread(Default), PT/NPT(Optional)	4431 1/2" Y 型三通 1/2" Y Fitting	4369 1-1/4" 扇形扁嘴 1-1/4" Flare Nozzle  $\Phi 4.5 \times 32L$
4202 3/8" 外牙直通接头 G 螺纹 (默认), PT/NPT(选配) 3/8" Male connector G Screw thread(Default), PT/NPT(Optional)	4432 1/2" 双接头 1/2" Double Socket	4320 1-3/4" 扇形扁嘴 1-3/4" Flare Nozzle  $\Phi 4.5 \times 44.5L$
4206 1/2" 外牙开关组 G 螺纹 (默认), PT/NPT(选配) 1/2" Male Valve G Screw thread(Default), PT/NPT(Optional)	4433 1/2" 加长管体组 1/2" Extend Element Kit with Element Clamp	4371 2-1/2" 扇形扁嘴 2-1/2" Flare Nozzle  $\Phi 3.5 \times 63.5L$
4207 1/2" 外牙开关组 G 螺纹 (默认), PT/NPT(选配) 1/2" Male Valve G Screw thread(Default), PT/NPT(Optional)	4101 	4355 1/2" 直喷扁嘴 1/2" DI Flat nozzle  $\Phi 2.1 \times 18L$
54400 1/2" 歧管组 1/2" Manifold set 4442 1PCS 4437 3PCS 4434 1PCS	4434 1/2" 直角转接头 1/2" Elbow Fitting	4356 1/2" 直喷扁嘴 1/2" DI Flat nozzle  $\Phi 3.3 \times 18L$
54410 1/2" 主道控制歧管组 1/2" Main control manifold set 4442 1PCS 4437 3PCS 4434 1PCS 4438 5PCS	4435 1/2" T 型圆嘴 1/2" Side Flow Nozzle	4360 1-1/4" 直喷扁嘴 1-1/4" DI Flat nozzle  $\Phi 4.2 \times 30.5L$
84501 1/2" 简易拆卸钳 1/2" Simple pliers	4437 1/2" T 型三通 1/2" T Fitting	4361 1-5/8" 直喷扁嘴 1-5/8" DI Flat nozzle  $\Phi 3.1 \times 41L$
	4445 1/2" 管体开关组 1/2" Connection valve	4374 1-1/4" 直喷扁嘴 1-1/4" DI Flat nozzle  $\Phi 1.7 \times 30L$
	4438 1/2" 管体开关组 1/2" Connection valve	
	4439 1/2" 逆止阀 1/2" In-line check	
	4442 1/4" 分支固定架 1/4" Brackets	
	4443 1/2" 转 3/8" 接头 1/2" to 3/8" Adapter	
	4436 1/2" 止水盖 1/2" End Cap	

注: 可根据客户要求定制非标螺纹及产品颜色。
Note: Non-standard threads and product color can be customized according to customer requirements.

注: 直喷: DI
直流: DF
Note: "DI" indicates that Direct Injection
"DF" indicates that Direct Flow

840620-17

840163-17

万向曲管配件组配表

3/4" 系列 Series

代号 Code	名称 Name	颜色及色卡号 Color card no.
C1	天青蓝 Azure blue	 RAL 5009
C2	亮红橙 Bright red orange	 RAL 2008

接头 Connector	转接头 Adaptor	喷嘴 Nozzle
6201 3/4" 外牙直通接头 G 螺纹 (默认), PT/NPT(选配) 3/4" Male connector G Screw thread(Default), PT/NPT(Optional)	6431 3/4" Y 型三通 3/4" Y Fitting	6362 5/8" 圆嘴 5/8" Round nozzle  $\Phi 16$
6206 3/4" 外牙开关组 G 螺纹 (默认), PT/NPT(选配) 3/4" Male Valve G Screw thread(Default), PT/NPT(Optional)	6440 3/4" 转 1/2" 接头 3/4" to 1/2" Adapter	6363 3/4" 圆嘴 3/4" Round nozzle  $\Phi 19.5$
6207 3/4" 外牙开关组 G 螺纹 (默认), PT/NPT(选配) 3/4" Male Valve G Screw thread(Default), PT/NPT(Optional)	6432 3/4" 双接头 3/4" Double Socket	6369 3" 扇形扁嘴 3" Flare Nozzle  $\Phi 4.8 \times 76.2L$
6209 3/4" 固定接头 3/4" Fixed connector	6445 3/4" 管体开关组 3/4" Connection Valve	
6210 3/4" 磁座 3/4" Magnetic Base	6438 3/4" 管体开关组 3/4" Connection Valve	
86501 3/4" 简易拆卸钳 3/4" Simple pliers		

注: 单位 (毫米) Unit :mm

860669-17

860162-17

注: 可根据客户要求定制非标螺纹及产品颜色。
Note: Non-standard threads and product color can be customized according to customer requirements.

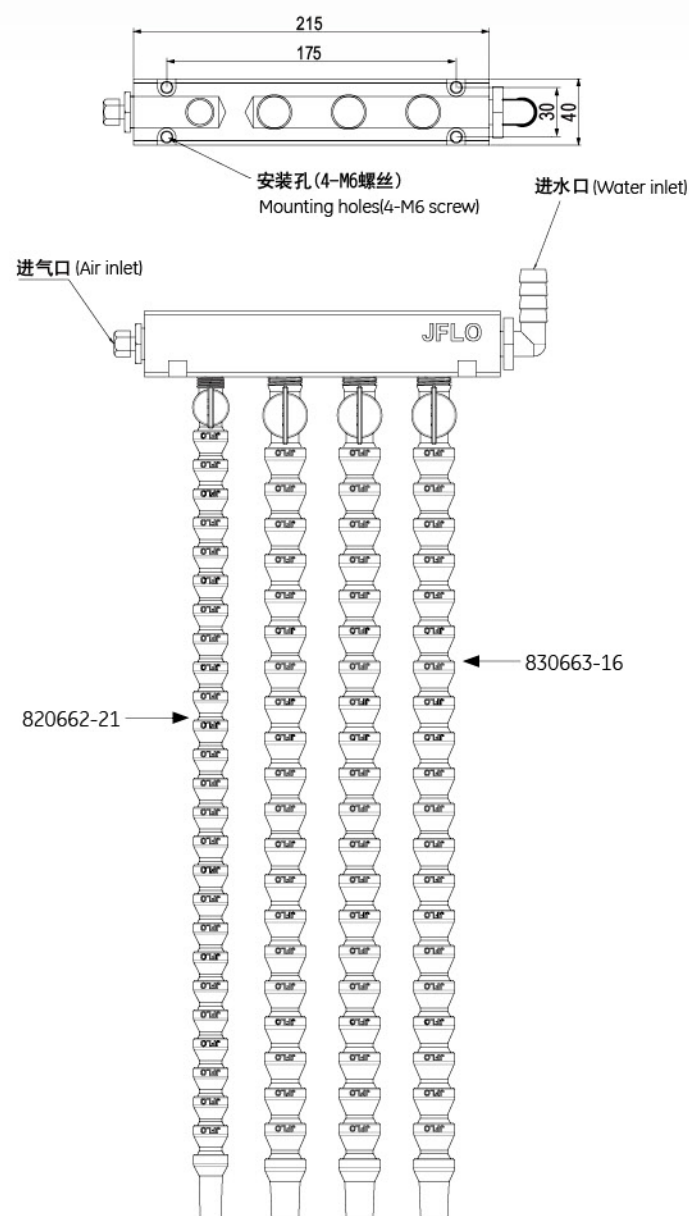
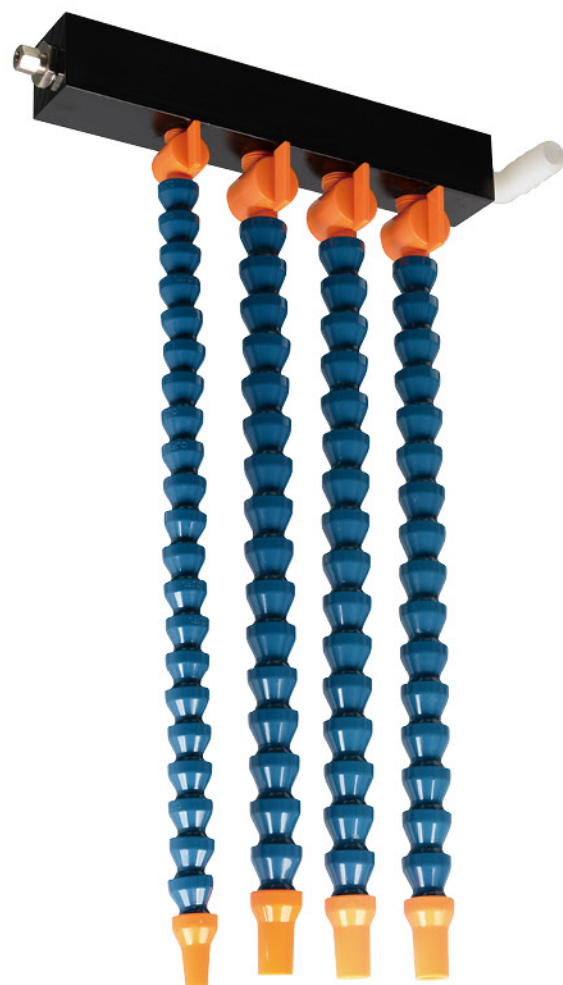
总流量控制组 Flow control group

能配合各种机械需求整合配置水流，在安装上更为简单容易，并能增加整台机械的美观，操控水流更为方便。

The group can meet various mechanical needs to integration and configuration the water flow, it make installation more simple and easier, the appearance of whole machine more beautiful, the water flow control more convenient.

控制组 Control Unit

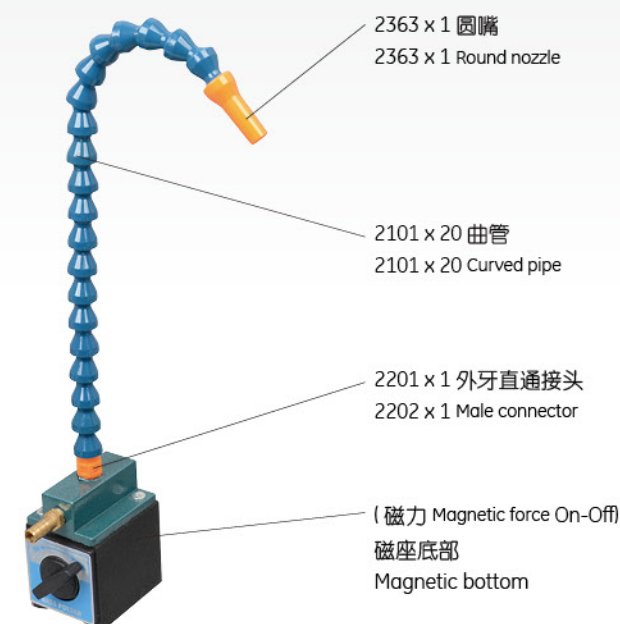
总流量控制组座 The base of flow control unit	1 组 Set
820662-21 开关控制组 2/8" (1/4") control unit with switch	1 条 Set
830663-16 开关控制组 6/8" (3/8") control unit with switch	3 条 Set



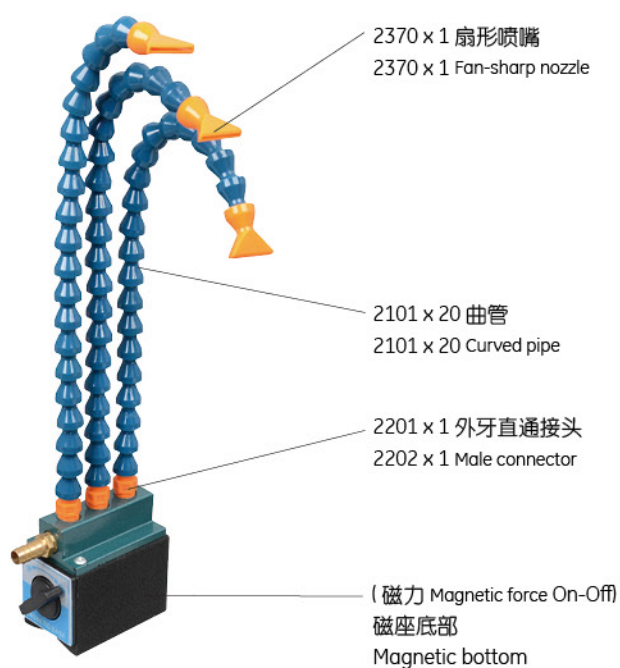
注：可根据客户要求定制非标螺纹及产品颜色。
Note: Non-standard threads and product color can be customized according to customer requirements.

磁性座系列 Magnetic base series

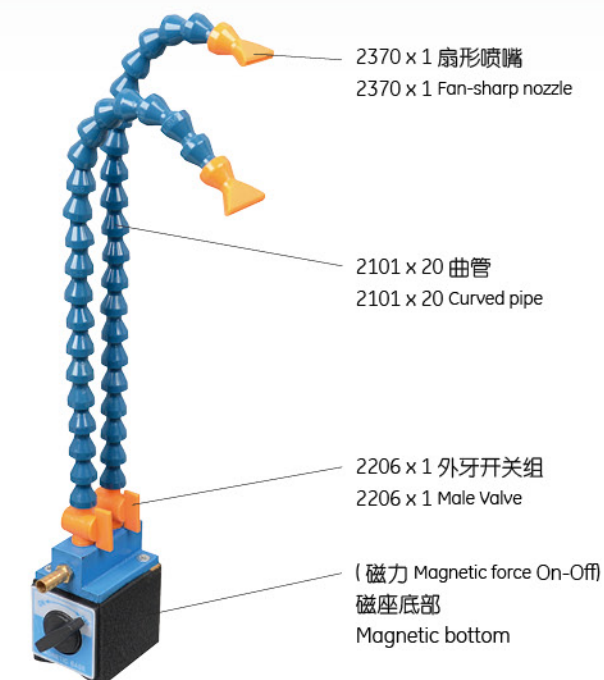
88001 磁座组 Magnetic base



88003 磁座组 Magnetic base



88002 磁座组 Magnetic base



接头、喷嘴长短，颜色可自行搭配。
The length and color of connector and nozzle can be free match.

注：可根据客户要求定制非标螺纹及产品颜色。
Note: Non-standard threads and product color can be customized according to customer requirements.