

采用生态纸印刷

Adopt ecological paper printing for this manual

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Jinfulong machine tool accessories all rights reserved

更多的产品型号与数据敬请期待中.....

More products and technical data will coming soon.

JFLO

JFLO®

浙江金福隆机床附件有限公司
ZHEJIANG JINFULONG MACHINE TOOL ACCESSORIES CO., LTD.

地址：浙江省乐清市北白象镇旺林村沙洪路 68 号
Add: No.68 Shahong Rd., Wanglin Industry Zone,
Beibaixiang, Yueqing 325603 Zhejiang, China.

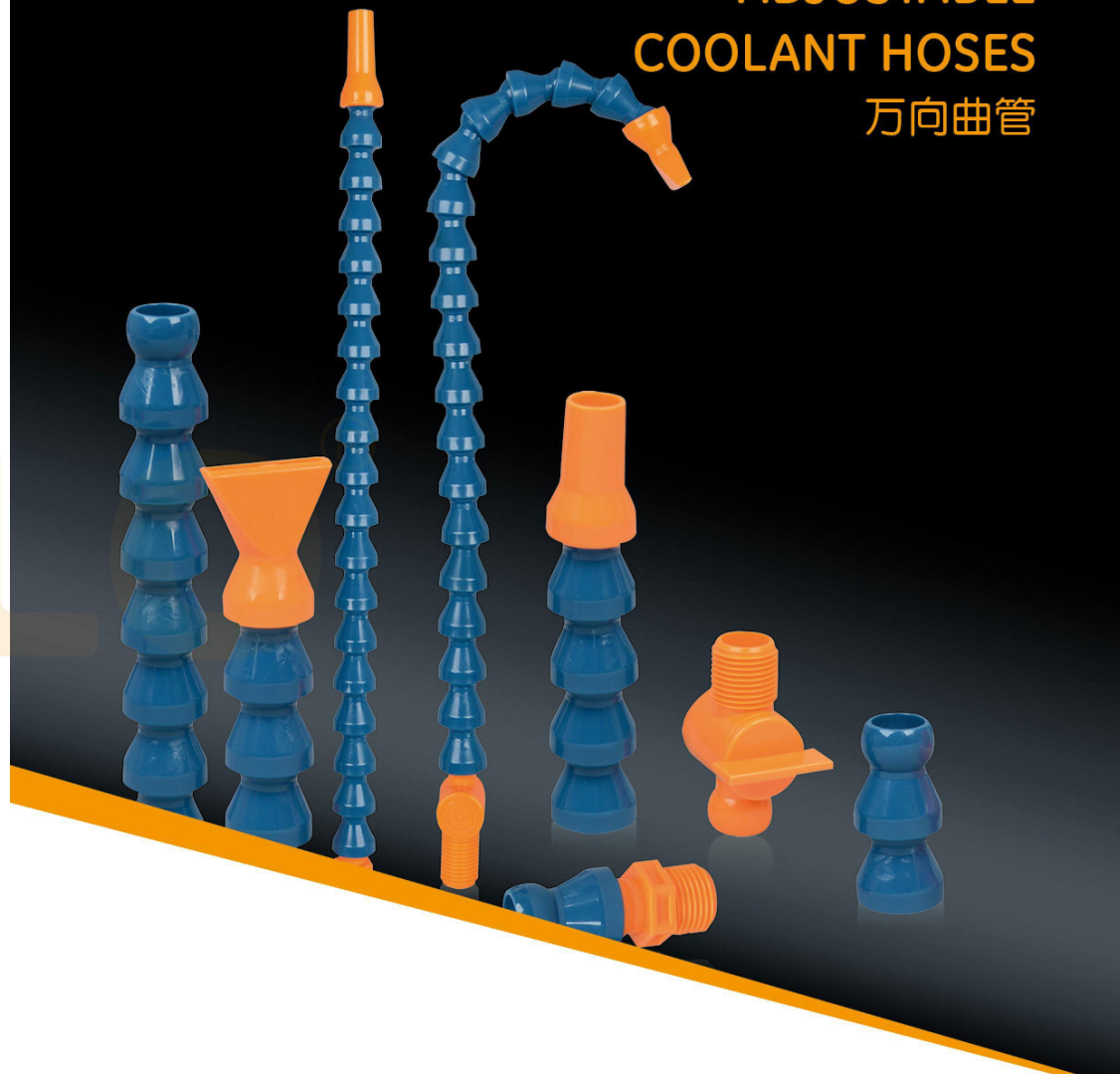
Tel: 86-577-61899086 fax: 86-577-61899090

E-mail: admin@cnjflo.com.cn Skype: misiayou

Http://www.jflo.com.cn

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ADJUSTABLE
COOLANT HOSES
万向曲管



金福隆机床附件
JINFULONG MACHINE TOOL
ACCESSORIES

JFLO®

JFLO

Company Introduction

公司简介

浙江金福隆机床附件有限公司成立于 2006 年，座落于中国电器之都 -- 乐清。公司致力于工业自动化设备电气保护系统、机械轨道防护系统及机床冷却系统产品的开发、生产及销售。

公司拥有近 1 万平方米的生产厂房，同时拥有独立的研发中心及模具中心。在全国各地设立了办事处、及各级代理商，产品广泛运用于 CNC 加工中心、切割设备、机械手、纺织机械等各种自动化设备领域。

另外公司产品还远销欧美、日韩、中东地区等 30 多个国家，常备库存最多，性价比最高的生产厂家。竭诚欢迎各界人士莅临指导，携手合作。



Zhejiang jinfulong machine tool accessories co.,ltd was founded on 2006,located at Chinese electric city- Yueqing.Specialized in develop、 manufacture and sales of products for industry automation equipment electric protection system, mechanical orbit protection system and machine coolant system.

Our company own nearly 10000m² factory area, also we have set up R&D centre and Moulding centre. In china domestic market, we have established office branch and distributor all over each province. Our products widly used in CNC machine、 welding machine, irobot, textile machine and etc.

Now our products are also sold to European、 America, Korea and middle east area more than 30 countries, with full specification series, goods stock of the most and competitive price. Welcome your visiting and cooperation.

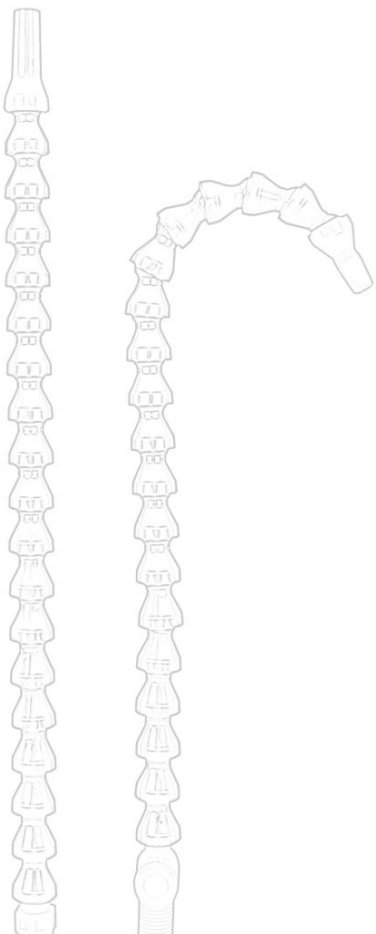


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万向曲管编码与订货说明

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 2/8" (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 2/8" (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 parts 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
2/8" (1/4")	82	管体 Pipe body	1
3/8"	83	接头 Connector	2
4/8" (1/2")	84	喷嘴 Nozzle	3
6/8" (3/4")	86	转接头 Adaptor	4
		附件 Accessory	5

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.

万向曲管介绍

Universal introduction of curved pipes

万向曲管，工程塑料冷却管是液体及气体媒质的综合引导系统，压强可以达到 4pa，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化结构，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 4 pa. 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
2/8" (1/4") 系列 Serie	2.0~3.0 kg/cm ²	900 公升 / 小时 H
3/8" 系列 Serie	2.0~3.0 kg/cm ²	1500 公升 / 小时 H
4/8" (1/2") 系列 Serie	1.4~2.0 kg/cm ²	1700 公升 / 小时 H
6/8" (3/4") 系列 Serie	0.7~1.4 kg/cm ²	1900 公升 / 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、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.

万向曲管包装

Packing of Adjustable coolant hoses

万向曲管提供卡装、袋装、卷装，可配合客户实际的要求。

We can provide package with card, bag and roll. We can also provide package to meet customer's require.



适用参照表

Applicable table

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	○		刹车油 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	○				

万向曲管组合长度计算方法

Calculation method of the Adjustable coolant hoses combined length



$$\begin{matrix} \text{接头尺寸} \\ \text{Connector size} \\ \text{(A)} \end{matrix} + \begin{matrix} \text{曲管本体尺寸} \\ \text{Pipe body size} \\ \text{(B x 节数 Number of hoses)} \end{matrix} + \begin{matrix} \text{喷嘴尺寸} \\ \text{Nozzle size} \\ \text{(C)} \end{matrix} = \begin{matrix} \text{总长} \\ \text{Overall length} \end{matrix}$$

2/8" (1/4") 10.0mm + 15.0mm x 节数 Number of hoses + 35.0mm = 总长 Overall length

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

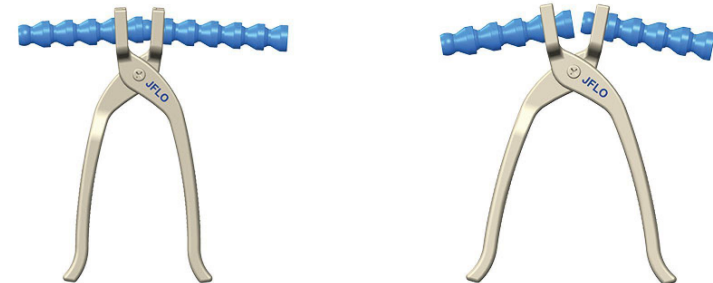
4/8" (1/2") 14.5mm + 21.5mm x 节数 Number of hoses + 38.0mm = 总长 Overall length

6/8" (3/4") 14.0mm + 23.5mm x 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

2/8" (1/4") 系列 Series

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/NPTI (选配) 1/4" Male connector G Screw thread(Default), PT/NPTI(Optional)	2431 1/4" V 型三通 1/4" V Fitting	2351 1/4" 外牙接头 G 螺纹 (默认), PT/NPTI (选配) 1/4" Male connector G Screw thread(Default), PT/NPTI(Optional)
2202 1/8" 外牙直通接头 G 螺纹 (默认), PT/NPTI (选配) 1/8" Male connector G Screw thread(Default), PT/NPTI(Optional)	2432 1/4" 双接头 1/4" Double Socket	2362 1/16" 圆嘴 1/16" Round nozzle
2204 5/8" 内牙直通接头 G 螺纹 (默认), PT/UNFI (选配) 5/8" Female connector G Screw thread(Default), PT/UNFI(Optional)	2433 1/4" 加长管体组 1/4" Extend Element Kit with Element Clamp	2363 1/8" 圆嘴 1/8" Round nozzle
2205 7/16" 内牙直通接头 G 螺纹 (默认), PT/UNFI (选配) 7/16" Female connector G Screw thread(Default), PT/UNFI(Optional)	2434 1/4" 直角转接头 1/4" Elbow Fitting	2364 1/4" 圆嘴 1/4" Round nozzle
2206 1/4" 外牙开关组 G 螺纹 (默认), PT/NPTI (选配) 1/4" Male Valve G Screw thread(Default), PT/NPTI(Optional)	2435 1/4" T 型圆嘴 1/4" Side Flow Nozzle	2365 1/16" 直角圆嘴 1/16" Right angle round nozzle
2207 1/4" 外牙开关组 G 螺纹 (默认), PT/NPTI (选配) 1/4" Male Valve G Screw thread(Default), PT/NPTI(Optional)	2436 1/4" 止水盖 1/4" End Cap	2366 1/8" 直角圆嘴 1/8" Right angle round nozzle
2208 1/4" G/PT 内牙开关组 G 螺纹 (默认), PTI (选配) 1/4" Female Valve G Screw thread(Default), PTI(Optional)	2437 1/4" T 型三通 1/4" T Fitting	2367 1/4" 直角圆嘴 1/4" Right angle round nozzle
	2438 1/4" 管体开关组 1/4" Connection valve	2368 1/4" 直角多孔扁嘴 1/4" 90° Spray bar nozzle
	2439 1/4" 逆止阀 1/4" In-line check	2369 3/8" 扇形扁嘴 3/8" Flare Nozzle
	2442 1/4" 分支固定架 1/4" Brackets	2370 1" 扇形扁嘴 1" Flare Nozzle
		2371 1/4" 多孔扇形扁嘴 1/4" Swivel Nozzle
		2372 1/4" 多孔扇形扁嘴 1/4" Swivel Nozzle

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

820670-18

820264-18

82501

1/4" 简易拆卸钳
1/4" Simple Pliers

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

2/8" (1/4") 系列规格表 (2/8") 1/4" Series specification table

2101 	2362 <p>最大弯曲角度: 24° Max. bending degree: 24°</p>	2438 	2368 	2437
2202 	2205 	2363 	2206 2207 	2435
2201 	2431 	2364 	2208 	2442
2351 	2432 	2365 	2366 	2371
2352 	2434 	2439 	2367 	2372
2353 	2370 	2369 	2433 	2359
2360 	2355 	2356 	2357 	2358

万向曲管配件组配表

3/8" 系列 Series

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
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
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" Adaptor	3364 1/2" 圆嘴 1/2" Round nozzle
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)	3438 3/8" 管体开关组 3/8" Connection valve	3369 1-1/4" 喇叭形嘴 1-1/4" Flare Nozzle
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)	3439 3/8" 直进止阀 3/8" In-line check	
3208 3/8" 内牙开关组 G 螺纹 (默认), PT/NPT (选配) 3/8" Female Valve G Screw thread(Default), PT/NPT(Optional)		

830669-17

830163-17

3101

3101

83501

3/8" 简易拆卸钳
3/8" Simple pliers

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.

3/8" 系列规格表 3/8" Series specification table

3101 		3206 3207
3201 	3362 	3208
3202 	3363 	3364
3431 	3440 	3439
3369 	3438 	3432

万向曲管配件组配表

4/8" (1/2") 系列 Series

接头 Connector

- 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)
- 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)
- 4204**
5/8" 内牙直通接头
G 螺纹 (默认), PT/UNF(选配)
5/8" Female connector
G Screw thread(Default), PT/UNF(Optional)
- 4206**
1/2" 外牙开关组
G 螺纹 (默认), PT/UNF(选配)
1/2" Male Valve
G Screw thread(Default), PT/UNF(Optional)
- 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)
- 4208**
1/2" 内牙开关组
G 螺纹 (默认), PT/NPT(选配)
1/2" Female Valve
G Screw thread(Default), PT/NPT(Optional)
- 54400**
1/2" 歧管组
1/2" 歧管固定架 1 个
1/2" T 形接头 3 个
1/2" L 形接头 1 个
固定螺丝 3 个
1/2" Manifold set
One 1/2" Manifold bracket
Three 1/2" T connectors
One 1/2" L connectors
Three set screws
- 54410**
1/2" 主道控制歧管组
1/2" 歧管组 1 组
1/2" 接头组 5 个
1/2" Main control manifold set
One 1/2" hose group
Five 1/2" connector sets

转接头 Adaptor

- 4431**
1/2" T 型三通
1/2" T Fitting
- 4432**
1/2" 双接头
1/2" Double Socket
- 4441**
1/2" 转 1/4" Y 型三通
1/2" to 1/4" Y Fitting
- 4440**
1/2" 转 1/4" 接头
1/2" to 1/4" Adapter
- 4433**
1/2" 加长管体组
1/2" Extend Element
Kit with Element Clamp
- 4434**
1/2" 直角转接头
1/2" Elbow Fitting
- 4435**
1/2" T 型圆嘴
1/2" Side Flow Nozzle
- 4437**
1/2" T 型三通
1/2" T Fitting
- 4438**
1/2" 管体开关组
1/2" Connection valve
- 4439**
1/2" 截止阀
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

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

喷嘴 Nozzle

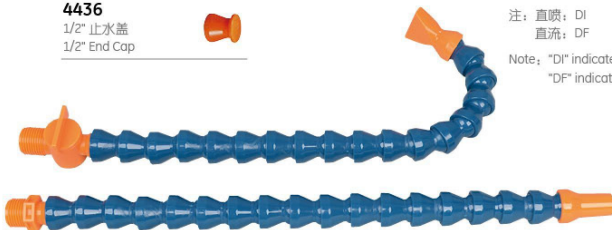
- 4369**
1-1/4" 扇形扁嘴
1-1/4" Flare Nozzle
- 4320**
1-3/4" 扇形扁嘴
1-3/4" Flare Nozzle
- 4371**
2-1/2" PT 扇形扁嘴
2-1/2" PT Flare Nozzle
- 4355**
1/2" 直喷扁嘴
1/2" DI Flat nozzle
- 4356**
1/2" 直喷扁嘴
1/2" DI Flat nozzle
- 4357**
1/2" 多孔直喷扁嘴
1/2" Porous DI flat nozzle
- 4358**
1/2" 多孔直喷扁嘴
1/2" Porous DI flat nozzle
- 4360**
1-1/4" 直喷扁嘴
1-1/4" DI Flat nozzle
- 4361**
1-5/8" 直流扁嘴
1-5/8" DF Flat nozzle
- 4362**
3/8" 圆嘴
3/8" Round nozzle
- 4363**
1/2" 圆嘴
1/2" Round nozzle
- 4364**
1/4" 圆嘴
1/4" Round nozzle
- 4365**
1/4" 直角圆嘴
1/4" Right angle round nozzle
- 4366**
3/8" 直角圆嘴
3/8" Right angle round nozzle
- 4367**
1/2" 直角圆嘴
1/2" Right angle round nozzle
- 4368**
1/2" 直角多孔扁嘴
1/2" 90 Spray bar nozzle
- 4373**
2-1/2" 多孔扇形扁嘴
2-1/2" Swivel Nozzle
- 84501**
1/2" 简易拆卸钳
1/2" Simple pliers

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



4/8" (1/2") 系列规格表 4/8" (1/2") Series specification table

4101 	4432 	4439 	4201 	4204 	4368
4202 	4437 	4434 	4362 	4365 	4438
4363 	4366 	4206 4207 	4364 	4367 	4208
4431 	4442 	4433 	4441 		
4373 	4440 	4435 			
4369 	4320 	4443 			
4371 	4374 	4355 	4356 		
4357 	4358 	4360 	4361 		

万向曲管配件组配表

6/8" (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

- 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)
- 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)
- 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)
- 6208**
3/4" 内牙开关组
G 螺纹 (默认), PT/UNF (选配)
3/4" Female Valve
G Screw thread(Default), PT/UNF(Optional)
- 6209**
3/4" 固定接头
3/4" Fixed connector
- 6210**
3/4" 磁座
3/4" Magnetic Base

转接头 Adaptor

- 6431**
3/4" Y 型三通
3/4" Y Fitting
- 6441**
3/4" 转 1/2" Y 型三通
3/4" to 1/2" Y Fitting
- 6440**
3/4" 转 1/2" 接头
3/4" to 1/2" Adaptor
- 6432**
3/4" 双接头
3/4" Double Socket
- 6434**
3/4" 直角转接头
3/4" Elbow Fitting
- 6438**
3/4" 管体开关组
3/4" Connection Valve

喷嘴 Nozzle

- 6362**
5/8" 圆嘴
3/4" Y Fitting
- 6363**
3/4" 圆嘴
3/4" Round nozzle
- 6369**
3" 扇形扁嘴
3" Flare Nozzle

6101

6101

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.

- 86501**
3/4" 简易拆卸钳
3/4" Simple pliers

6/8" (3/4") 系列规格表 6/8" (3/4") Series specification table

6101 	6432 	6209 	6210
6434 	6201 	6440 	6369
6363 	6362 	6431 	6441
6434 	6438 	6206 6207 	6208

最大弯曲角度: 21°

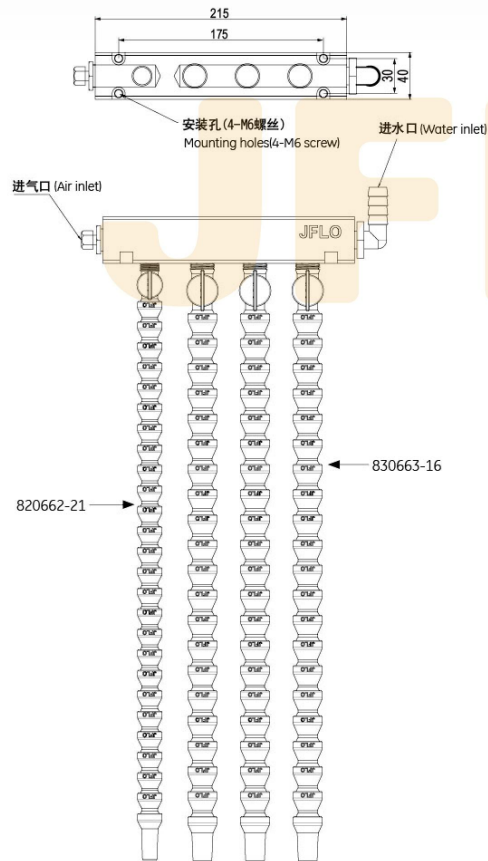
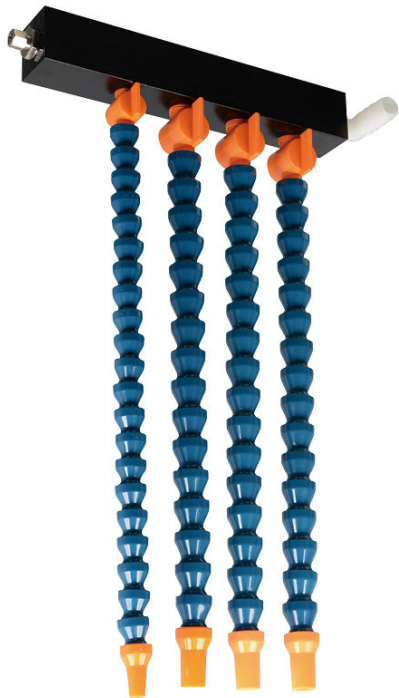
总流量控制组 Flow control group

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



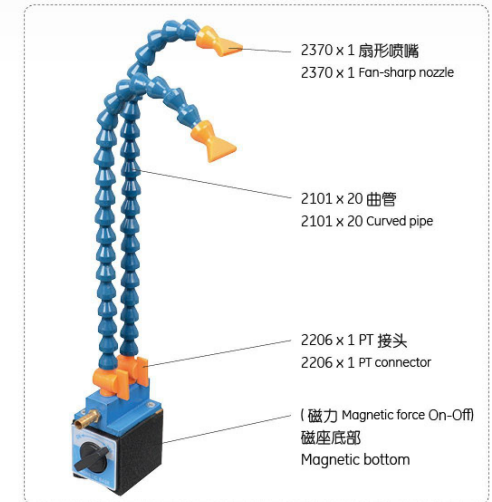
注：可根据客户要求定制非标螺纹及产品颜色。
Note: Non-standard threads and product color can be customized according to customer requirements.

磁性座系列 Magnetic base series

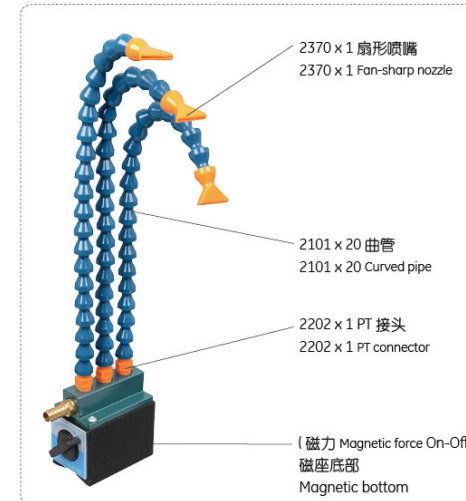
88001 磁座组 Magnetic base



88002 磁座组 Magnetic base



88003 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.



备忘录

JFLO®