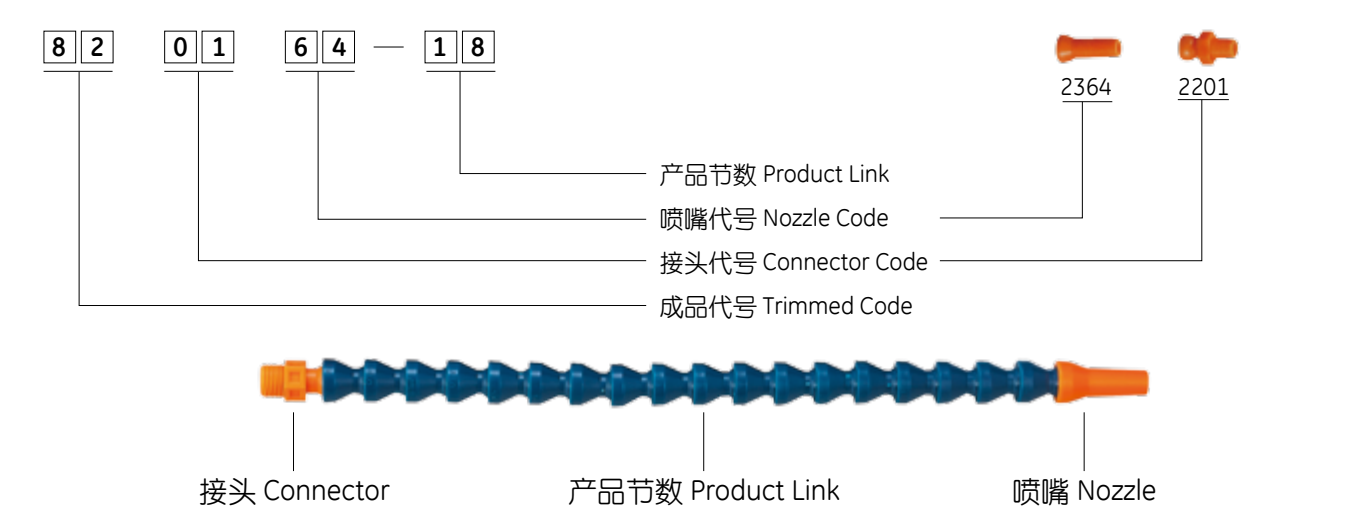


万向曲管，工程塑料冷却管是液体及气体媒质的综合引导系统，压强可以达到 0.5Mpa，它是用优质的工程塑料制作而成，它的各个节使用精密的注塑工艺制成，其各节点连接接触曲面经过精确的计算并使用优质的注塑技术制造而成。可调塑料冷却管无需加任何导管，仅靠自身接触曲面即可有极好的密封性。其接触面的紧密配合足以保证在高压水的冲击作用下，冷却水管始终保持其初始位置不变。可调塑料冷却管为真正意义上的模块式结构，不但可根据需要任意增加或减少节数，并且可以在各节间根据需要加装开关，且有不同的连接与出水。而且还有一进两出的三通，工程塑料冷却管材质为杜邦 POM，出水嘴型有圆嘴、扁嘴、多孔扁嘴和大口径圆嘴型，接头有带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

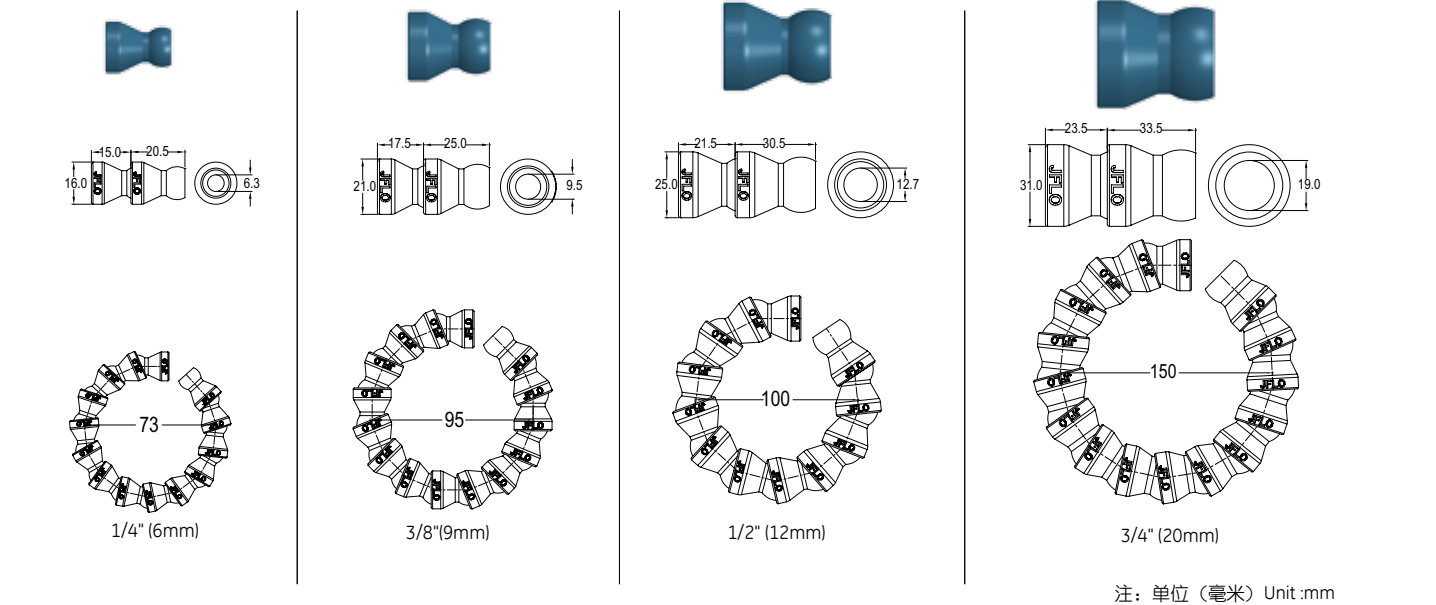
万向曲管编码与订货说明 Adjustable coolant hoses Article No.



- 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 Product Specification	
规格 Size	代码 Code
1/4"	82
3/8"	83
1/2"	84
3/4"	86

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.



接头尺寸 Connector size (A) + 曲管本体尺寸 Pipe body size (B x 节数 Number of hoses) + 喷嘴尺寸 Nozzle size (C) = 总长 Overall length

- 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
- 1/2" 14.5mm + 21.5mm x 节数 Number of hoses + 38.0mm = 总长 Overall length
- 3/4" 14.0mm + 23.5mm x 节数 Number of hoses + 43.0mm = 总长 Overall length

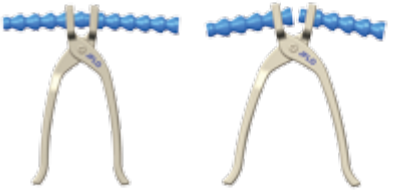
曲管压力与流量的特性 Characteristic hose pipe pressure and flow

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。

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.



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

1/4" 系列 Series

接头
Connector

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)



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)



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)



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)



82400
1/4" 歧管组
1/4" Manifold set
2442 1PCS
2437 3PCS
2434 1PCS



82410
1/4" 主道控制歧管组
1/4" Main control manifold set
2442 1PCS
2437 3PCS
2434 1PCS
2438 5PCS



82501
1/4" 简易拆卸钳
1/4" Simple Pliers



转接头
Adaptor

2431
1/4" Y 型三通
1/4" Y Fitting



2432
1/4" 双接头
1/4" Double Socket



2101
1/4" 加长管体
1/4" Extend Element



2433-2
1/4" 管体固定夹
1/4" Element Clamp



2434
1/4" 直角转接头
1/4" Elbow Fitting



2435
1/4" T 型圆嘴
1/4" Side Flow Nozzle



2436
1/4" 止水盖
1/4" End Cap



2437
1/4" T 型三通
1/4" T Fitting



2445
1/4" 管体开关组
1/4" Connection valve



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



喷嘴
Nozzle

2355
1/4" 直喷扁嘴
1/4" DI Flat nozzle



2356
1/4" 直喷扁嘴
1/4" DI Flat nozzle



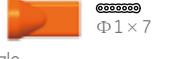
2369
3/8" 扇形扁嘴
3/8" Flare Nozzle



2370
1" 扇形扁嘴
1" Flare Nozzle



2357
1/4" 多孔扁嘴
1/4" Porous flat nozzle



2358
1/4" 多孔扁嘴
1/4" Porous flat nozzle



2359
2-1/2" 多孔扇形扁嘴
2-1/2" Swivel 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



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

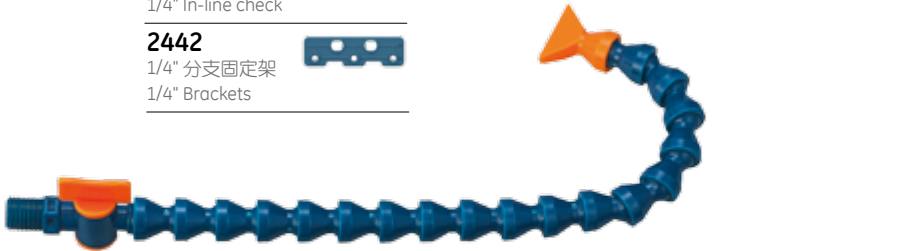


2360
1/4" 直流扁嘴
1/4" DF Flat nozzle



注：单位（毫米）Unit :mm

820770-18



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

3/8" 系列 Series

接头
Connector

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)



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)



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)



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)



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)



83501
3/8" 简易拆卸钳
3/8" Simple pliers



转接头
Adaptor

3431
3/8" Y 型三通
3/8" Y Fitting



3432
3/8" 双接头
3/8" Double Socket



3440
3/8" 转 1/4" 接头
3/8" to 1/4" Adapter



3445
3/8" 管体开关组
3/8" Connection valve



3438
3/8" 管体开关组
3/8" Connection valve



3439
3/8" 逆止阀
3/8" In-line check



喷嘴
Nozzle

3362
1/4" 圆嘴
1/4" Round nozzle



3363
3/8" 圆嘴
3/8" Round nozzle



3364
1/2" 圆嘴
1/2" Round nozzle

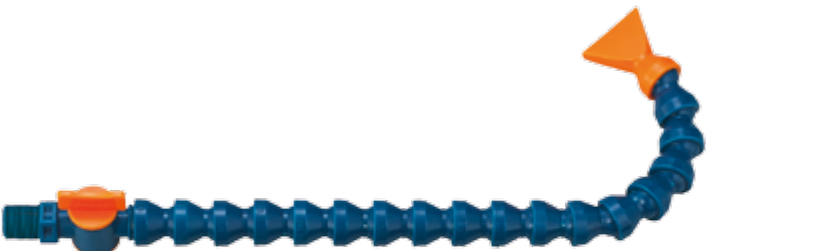


3369
1-1/4" 扇形扁嘴
1-1/4" Flare Nozzle



注：单位（毫米）Unit :mm

830769-17



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.

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))



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))



54400
1/2" 歧管组
1/2" Manifold set
4442 1PCS
4437 3PCS
4434 1PCS



54410
1/2" 主道控制歧管组
1/2" Main control manifold set
4442 1PCS
4437 3PCS
4434 1PCS
4438 5PCS



84501
1/2" 简易拆卸钳
1/2" Simple pliers



转接头
Adaptor

4431
1/2" Y 型三通
1/2" Y Fitting



4432
1/2" 双接头
1/2" Double Socket



4433-1
1/2" 加长管体
1/2" Extend Element



4433-2
1/2" 管体固定夹
1/2" 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



4445
1/2" 管体开关组
1/2" Connection valve



4438
1/2" 管体开关组
1/2" Connection valve



4439
1/2" 逆止阀
1/2" In-line check



4442
1/2" 分支固定架
1/2" 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



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



4370
1-1/2" 扇形扁嘴
1-1/2" Flare Nozzle



4371
2-1/2" 扇形扁嘴
2-1/2" 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



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



4374
1-1/4" 直喷扁嘴
1-1/4" DI 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" Right angle porous nozzle



4373
2-1/2" 多孔扇形扁嘴
2-1/2" Swivel 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



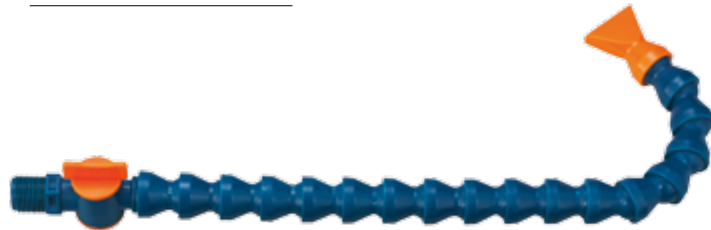
注：单位（毫米）Unit :mm

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

840720-17



840163-17



3/4" 系列 Series

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))



6209
3/4" 固定接头
3/4" Fixed connector



6210
3/4" 磁座
3/4" Magnetic Base



86501
3/4" 简易拆卸钳
3/4" Simple pliers



转接头
Adaptor

6431
3/4" Y 型三通
3/4" Y Fitting



6440
3/4" 转 1/2" 接头
3/4" to 1/2" Adapter



6432
3/4" 双接头
3/4" Double Socket



6445
3/4" 管体开关组
3/4" Connection Valve



6438
3/4" 管体开关组
3/4" Connection Valve



喷嘴
Nozzle

6362
5/8" 圆嘴
5/8" Round nozzle



6363
3/4" 圆嘴
3/4" Round nozzle

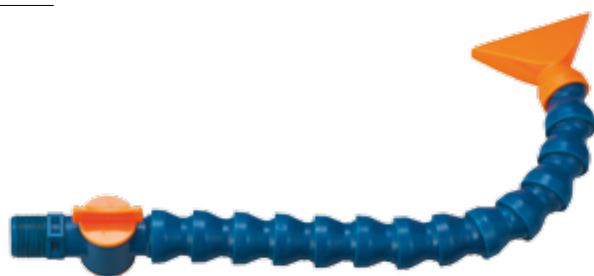


6369
3" 扇形扁嘴
3" Flare Nozzle



注：单位（毫米）Unit :mm

860769-13



860162-13



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.