



UQD & UQDB

Product Manual



国昌科技母公司

国泰达鸣集团8大制造基地分布

Guochang Technology's parent company
Distribution of 8 major manufacturing
bases of Cathay Tatming Group



广东国昌科技创建于2005年，坐落在东莞黄江，隶属于国泰达鸣集团全资子公司。公司拥有连接器产品和高精密制造两大业务板块，具有领先的研发设计能力、加工能力、大规模生产能力，配备先进的加工设备以及检测仪器，打造高可靠、高精密的产品，服务全球客户。同时，我们具有强大的定制化能力，可以根据客户的个性化需求，提供专业的定制化解决方案。

Guangdong Guochang Technology was founded in 2005 and is located in Huangjiang, Dongguan. It is a wholly-owned subsidiary of Cathay Tat Ming Group. The company has two major business segments: connector products and high-precision manufacturing, with leading R&D and design capabilities, processing capabilities, and large-scale production capabilities. Equipped with advanced processing equipment and testing instruments, it creates highly reliable and high-precision products to serve global customers. At the same time, we have strong customization capabilities and can provide professional customized solutions based on customers' personalized needs.

www.guochangrf.com





满足您的定制要求

Fulfill your customization requests

产品特点

Product Features

- 高流量，无泄露。 High flow, No leakage.
- 内部阀芯结构优化降低流阻。 Optimized internal valve core structure reduces flow resistance.
- 插头插座连接顺滑。 Plug-and-socket connection ensures smooth engagement.
- 至少超过OCP流量额定25%，从而降低整体产品功耗。 Exceeds OCP flow ratings at least by 25%, lowering overall product power consumption.



Guochang UQD & UQDB 是严格按照OCP（开放计算项目）标准设计，并超出指定性能特性的要求。产品提供颜色识别，分别是红色和蓝色两种，并保证100%氦气泄漏测试。国昌拥有全面的优质流体输送产品组合，以满足客户的热管理系统需求。

Guochang UQD & UQDB Series Strictly compliant with OCP (Open Compute Project) standards while exceeding specified performance requirements. The products feature color-coded identification (available in both red and blue variants) and undergo 100% helium leak testing for guaranteed sealing performance. As a comprehensive fluid solutions provider, Guochang offers a premium portfolio of fluid delivery products designed to meet diverse thermal management requirements.

核心优势

Core advantages

- 母头采用双密封圈设计，极大降低漏液风险。 Female connector features dual O-ring design, significantly reducing leakage risk.
- 钢珠锁紧&内部长导向结构，适用更大的机械应力环境。 Steel ball locking mechanism with extended internal guide structure withstands higher mechanical stress.
- 拥有强大的热阻&流阻仿真优化及产品实现能力。 Advanced thermal/flow resistance simulation capabilities enable optimized product realization.
- 拥有全套的测试设备，保证产品可靠性。 Full suite of testing equipment ensures product reliability.

个性化定制

Personalized customization

- 根据应用，可定制最优材料。 Material customization – Optimal materials tailored to your specific application.
- 可定制外形和尾部安装尺寸。 Design flexibility – Customizable housing shapes and rear-end mounting dimensions.
- 可定制软管集成，美观，降低泄露风险。 Integrated hose connection – Seamless and leak-resistant design for enhanced aesthetics and reliability.

UQD 技术参数

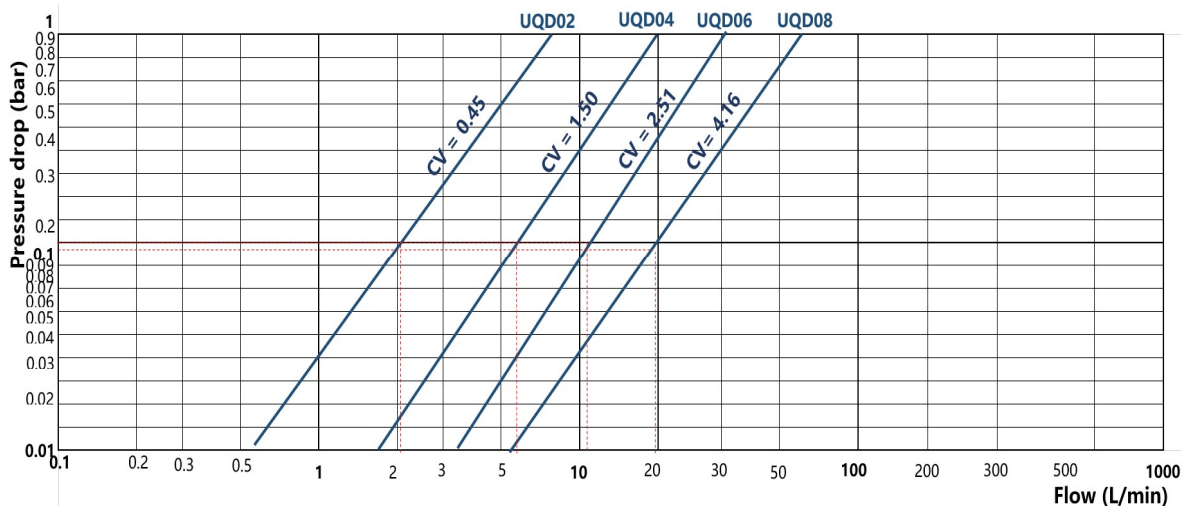
UQD Technical Parameter



型号Model	UQD02	UQD04	UQD06	UQD08
通径Bore Size (mm)	03	05	07	10
最大工作压力 Maximum Operating Pressure (psi)	100	100	100	100
额定流量 Flow Rating (L/min)	2.082	6.433	11.356	17.791
流体溢出 Fluid Loss (ml)	≤0.010	≤0.015	≤0.020	≤0.030
不带压最大插合力 Maximum Coupling Force (N) (0 psi)	50	55	90	120
机械寿命 Mechanical Life	5000次插拔 5000 mating cycles			
工作温度 Operating Temperature range	-40℃~+125℃			
主要材料Main Material	主体 Body: SUS316L; 密封圈 Seals: 三元乙丙橡胶 EPDM			

流量曲线

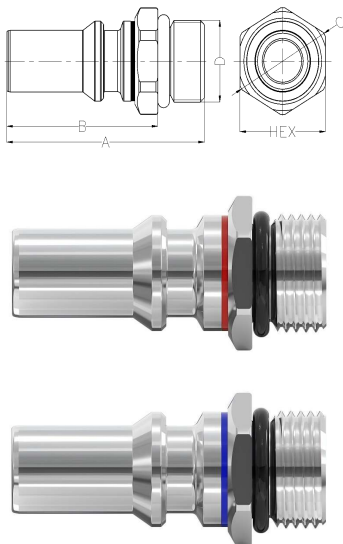
Pressure drop/Flow rate Chart



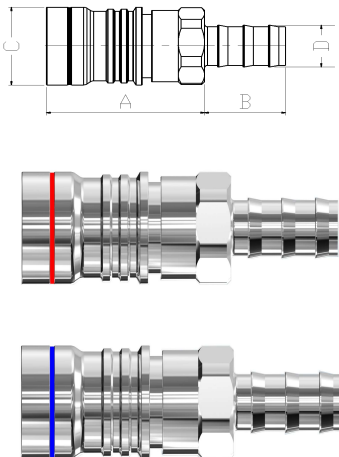
测试条件
Test conditions

- 流体：水
Fluid : water
- 流向：插头-插座
Flow direction : plug-socket
- 温度
Temperature:20℃

插头 Plug

产品说明 Product Description		A	B	C	D	HEX	备注 Remarks
	UQD02	35	27	15.5	7/16-20 UNF-2A	14	SAE04螺纹 thread
		35	27	15.5	G1/8"	14	/
	UQD04	45.4	35.4	19	9/16-18 UNF-2A	17	SAE06螺纹 thread
		45.4	35.4	19	G1/4"	17	/
	UQD06	50.9	38.9	25	3/4-16 UNF-2A	22	SAE08螺纹 thread
		50.9	38.9	25	G3/8"	22	/
	UQD08	54.9	42.9	28	7/8-14 UNF-2A	25	SAE10螺纹 thread
		54.9	42.9	28	G1/2"	25	/

插座 Socket

产品说明 Product Description		A	B	C	D	备注Remarks
	UQD02	41	20	18.5	8.8	适配1/4" EPDM橡胶管 Compatible with 1/4" EPDM hose
	UQD04	46.4	24.5	24.5	12	适配3/8" EPDM橡胶管 Compatible with 3/8" EPDM hose
	UQD06	55.5	27	28	15.2	适配1/2" EPDM橡胶管 Compatible with 1/2" EPDM hose
	UQD08	66.5	30	32	18.6	适配5/8" EPDM橡胶管 Compatible with 5/8" EPDM hose

UQDB 技术参数

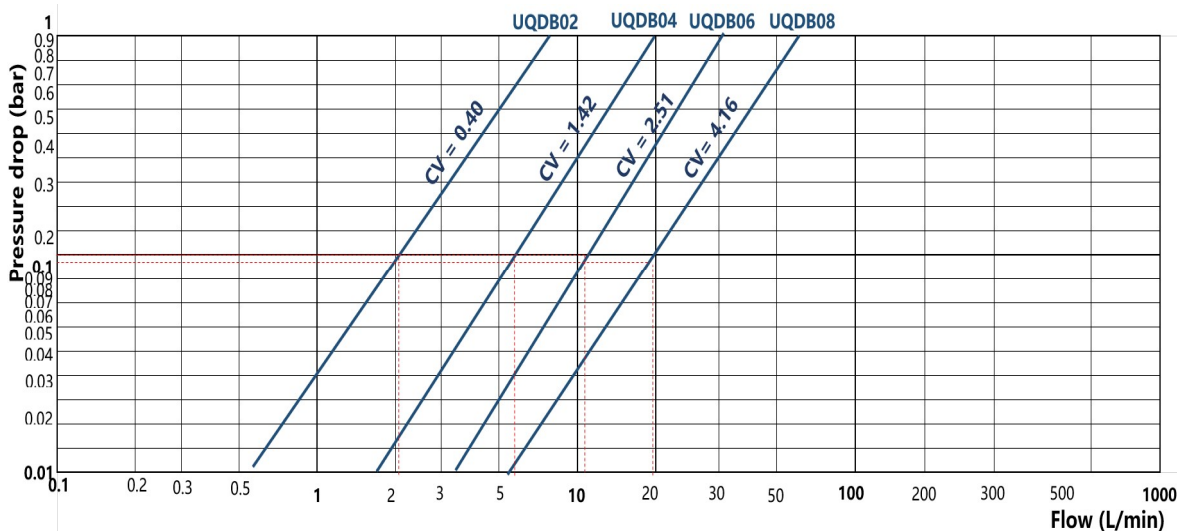
UQDB Technical Parameter



型号 Model	UQDB02	UQDB04	UQDB06	UQDB08
通径Bore Size (mm)	03	05	07	10
最大工作压力 Maximum Operating Pressure (psi)	100	100	100	100
额定流量 Flow Rating (L/min)	2.082	6.433	11.356	17.791
流体溢出 Fluid Loss (ml)	≤0.010	≤0.015	≤0.020	≤0.030
不带压最大插合力 Maximum Coupling Force (N) (0 psi)	65	75	95	120
机械寿命 Mechanical Life	5000次插拔 5000 mating cycles			
工作温度 Operating Temperature range	-40℃~+125℃			
主要材料Main Material	主体 Body: SUS316L; 密封圈 Seals: 三元乙丙橡胶 EPDM			

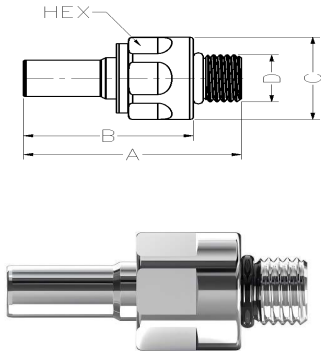
流量曲线

Pressure drop/Flow rate Chart

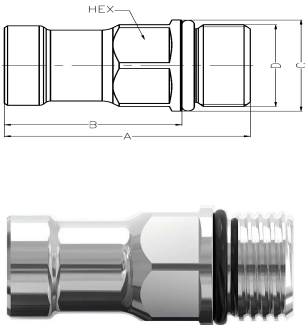


测试条件
 Test conditions
 ■ 流体：水
 Fluid : water
 ■ 流向：插头-插座
 Flow direction :
 plug-socket
 ■ 温度
 Temperature:20℃

插头 Plug

产品说明 Product Description		A	B	C	D	HEX	备注 Remarks
	UQDB02	36	27	21	7/16-20 UNF-2A	19	SAE04螺纹 thread
		36	27	21	G1/8"	19	/
	UQDB04	45.4	35.4	25	9/16-18 UNF-2A	23	SAE06螺纹 thread
		45.4	35.4	25	G1/4"	23	/
	UQDB06	50.9	38.9	27	3/4-16 UNF-2A	26	SAE08螺纹 thread
		50.9	38.9	27	G3/8"	26	/
	UQDB08	58.9	42.9	31	7/8-14 UNF-2A	29	SAE10螺纹 thread
		58.9	42.9	31	G1/2"	29	/

插座 Socket

产品说明 Product Description		A	B	C	D	HEX	备注 Remarks
	UQDB02	33.62	23.62	25	9/16-18 UNF-2A	17	SAE06螺纹 thread
	UQDB04	39.5	28.5	28	3/4-16 UNF-2A	19	SAE08螺纹 thread
	UQDB06	43.75	31.75	31	7/8-14 UNF-2A	24	SAE10螺纹 thread
	UQDB08	47.56	35.56	31	1-1/16-12UNF-2A	27	SAE12螺纹 thread



More Customized
GUOCHANG CONNECTIVITY SOLUTIONS YOU CAN COUNT ON

Guangdong Guochang Technology Co., Ltd

📍 广东省东莞市黄江镇裕元工业区
Yuyuan Industrial Park , Huangjiang , Dongguan , Guangdong

☎ +86 769 8605 8551

✉ sales@guochangrf.com

www.guochangrf.com

