



BLUE  
REFRIGERATION

BLUE REFRIGERATION  
布鲁制冷

valves and controllers Catalogue  
阀门与控制器产品目录

制冷及空调系统配件专业供应商  
Professional Supplier Of Refrigeration And Air Conditioner parts

2023



### Valves And Controllers Catalogue 阀门与控制器产品目录



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NINGBO NEW BLUE ENERGY TECHNOLOGY CO.,LTD

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# BLUE REFRIGERATION



精工细铸 · 打造世界级品质

Devoted to be Delicate · Create the World-Class Quality.



**GOOD QUALITY!**





Valves 阀门

P03-04

Valves  
阀门



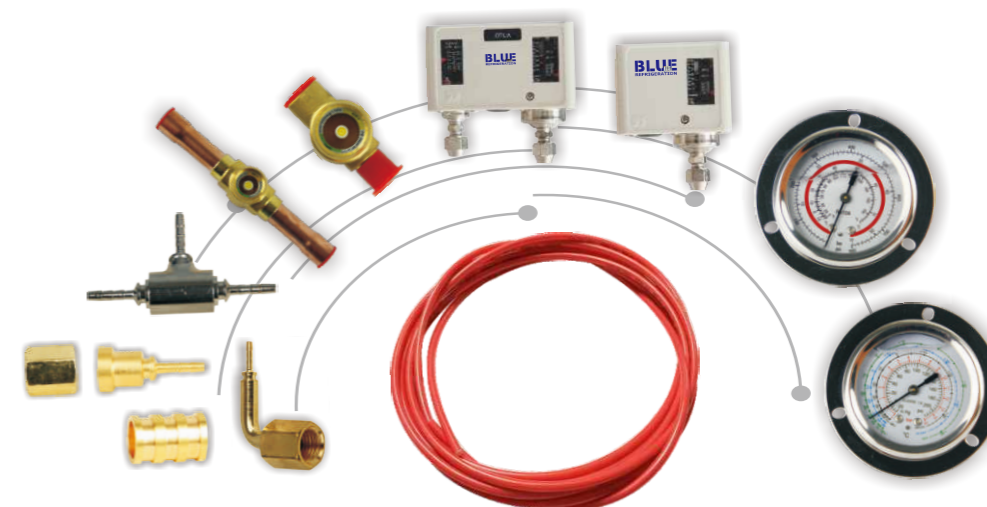
BLR/GBC Series Ball Valve BLR/GBC 系列球阀	P05
BLR/NRV Check Valve BLR/NRV 系列单向阀	P06
BLR/MCV Magnetic Check Valve BLR/MCV 膜片式单向阀	P07
BLR Receiver Valve BLR 储液器阀	P08
BLR Series Piston Check Valve BLR系列活塞式单向阀	P09
BLR Globe Valve BLR 截止阀	P10
BLR Series Capped Valve BLR系列顶盖阀	P11
BLR Series Diaphragm Hand Valve BLR系列隔膜式手阀	P12
BLR/NRF/ NRFE Thermostatic Expansion Valves BLR/NRF/ NRFE 型热力膨胀阀	P13-14
BLR/EEV Flat Floating Electronic Expansion Valve BLR/EEV 电子膨胀阀	P15-16
BLR/EVR Solenoid Valve BLR/EVR 电磁阀	P17
BLR/USV Unloading Solenoid Valve BLR/USV 卸载式电磁阀	P18
BLR/MSV Series Membrane Solenoid Valves BLR/MSV 系列膜片式电磁阀	P19-20
BLR/MG Series Solenoid Valves For R410A BLR/MG 系列电磁阀(用于R410A)	P21
BLR/FDF Series Normal Close Solenoid Valve BLR/FDF 系列常闭电磁阀	P22
BLR/FRV Series 4 Ways Reversing Valve BLR/FRV系列四通换向阀	P23-28
BLR/KVL Crankcase Pressure Regulator BLR/KVL 系列曲轴压力调节阀	P29
BLR/KVR Condensing Pressure Regulator BLR/KVR 系列冷凝压力调节阀	P30
BLR/KVP Evaporating Pressure Regulator BLR/KVP 系列蒸发压力调节阀	P31
BLR/ACV Series AC Services Valve BLR/ACV 系列空调阀	P32
BLR/OSV Oil Circuit Shut-off Valve BLR/OSV油路截止阀	P33
BLR/SV Service Valve BLR/SV 检修阀	P34
BLR/RV Rotolock Valve BLR/RV 锁定阀	P35
BLR/ER&SR Rotolock Connection BLR/ER&SR锁定接头	P36
BLR/TV Three-Way Dual Shut-Off Valve (Changeover Valve) BLR/TV 三通双开关截止阀 (配用安全阀)	P37
BLR/FV Frontseating Valves BLR/FV 北美方体阀	P38
BLR/SV Safety Valve BLR/SV 安全阀	P39
BLR/PWV Pressure Controlled Water Valves BLR/PWV 冷凝压力调节阀	P40
BLR /AV Access Valve BLR /AV 加液阀	P41
U Type Copper Elbow U形铜弯头	P42-44
Ammonia valve 氨用阀门	P45-46
Valves And Controls For CO2(R744) up to 130Bar 用于二氧化碳的阀门与控制器 (R744, 可达130bar)	P47-48

Controller & Connectors 控制器和接头

Controller & Connectors  
控制器和接头



BLR/TPH 压力软管及接头 BLR/TPH Pressure Hose&Fitting	P49-50
BLR/SGN 视镜 BLR/SGN Sight Glass	P51-52
BLR/OPG 油压表 BLR/OPG Oil Pressure Gauge	P53
BLR/VA 避震管 BLR/VA Vibration Absorber	P54
BLR/SPC&BLR/DPC 型压力控制器 BLR/SPC&BLR/DPC Pressure Control	P55-56
BLR/PDC 型压差控制器 BLR/PDC Pressure Differential Control	P57
定点式压力控制器 Automatic Reset High,low&condenser Fan Cycling Pressure Switches	P58
BLR/LFS Liquid Flow Switch BLR/LFS 型水流开关	P59
Pressure Sensor 压力传感器	P60-62
BLR/EOLC Series Accurate Electronic Oil BLR/EOLC 款式 电子精准液位控制器	P63
BLR/ELLC Series Accurate Electronic Oil (With Solenoid Valve) BLR/ELLC 款式 电子精准液位控制器(带电磁阀)	P64
Liquid Level Regulator and Adapters 配套适配器	P65
Sight Glasses 视镜	P66
Fittings 接头	P67-68
Valves And Controller Cross Reference 阀门与控制器对照表	P69-71
BLUE Refrigeration Components 布鲁制冷部件	P72







### Company Profile ;

**BLUE REFRIGERATION INDUSTRY CO.,LTD** is a company which was founded in 2013. We devote to provide best quality products with reasonable price. In order to suit the rapid developing marketing needs and provide the customers with high quality products and satisfactory service, the highly experienced technical team is dedicated to sustainable product development, technology innovation and quality control.

**BLUE REFRIGERATION** have been putting into production for more than three years, our mainly products are filter drier, replaceable filter drier, oil separator, suction line accumulator, liquid receive, pressure hose ,valves and other refrigeration parts. These are widely used in refrigeration, AC heat pump, transportation refrigeration, household appliances refrigeration, kitchen refrigeration, laboratory equipments and other fields. More than 95% of our products are hot selling to more than 20 countries around the world. In order to enrich our business range and provide more wide service to our customers, we have become the distributor of GOMAX,NGI,DEKA, etc.

**BLUE REFRIGERATION** always here to open our door to welcome you to be our distributors or OEM customers. We sincerely hope can establish long-term cooperation with your esteem company. We stick to use best quality materials for our products. "Devoted to be delicate. create the world-class quality" is our attitude, That's why Our products are well accepted and recognized as even higher quality than some famous brands.

**BLUE REFRIGERATION** is devoted to become one of the top suppliers of its kind of products in Refrigeration and Air Conditioning field. We are here devoted to provide best service, good quality, good price for our customers around the world.

### 布鲁制冷

宁波布鲁制冷工业有限公司成立于2013年，我们致力于提供最好的产品，最有合理的价格。为了适应市场的高速变化，提供给客户更好的产品及服务，我们建立了专业的技术团队去开发和研发新产品，不断地技术创新及质量控制。

布鲁制冷投产已经超过三年，我们主要生产的产品有过滤器、过滤桶、油分、气分、储液器、储油器、铜配件和压力软管及配件等制冷系列相关产品，广泛地应用至冷冻冷藏、空调热泵、运输制冷、家电制冷、厨房制冷、实验室设备等领域。95%以上的产品销往全球20几个国家和地区。为了扩大我们的经营范围来更好地服务客户，我们代理了意大利GOMAX压力软管(应用CO2系统)，意大利NGI安全阀，德国DEKA电子油位平衡器等国外优秀产品。

布鲁制冷永远欢迎来自国内外的您成为我们的合作伙伴。我们真诚地希望能够与您建立长久的合作关系。我们坚持使用高品质的原材料，看齐知名品牌。坚守“精工细铸.打造行业一流品质”的理念，因而以优良的产品品质和优质的服务在短期内就得到了客户和市场的认可。

布鲁制冷致力于成为制冷与空调行业的顶级供应商，我们致力于给国内外客户提供最好的服务，最优质的品质以及最好的价格。



### Factory ;

**BLUE Refrigeration** is aware of operation features and importance of its products, and therefore, carries out all production process with great care.

The company carefully arranges and manages every stage of production.

Raw material input inspection is followed by.

- ◆ Raw material input control
- ◆ Length cutting and perforating is carried out by plasma cutting machines.
- ◆ Plate cutting is carried out by modern guillotine-shears, and processed by hydraulic presses and high-capacity double-stage deep drawing presses.
- ◆ Connection devices are processed by CNC machines.
- ◆ Welding operations are carried out by 90% automatic robot machines.
- ◆ Tightness tests and measurement tests are carried out by high-capacity screw compressors.
- ◆ Paint works are fulfilled by rail electrostatic painting system after phosphate cleaning.
- ◆ Mounted products are labeled and stored according to serial numbers and groups.

Around 85% of **BLUE REFRIGERATION** production is carried out at own factories by its experts as required by production and product certification.

**BLUE REFRIGERATION** is increasing investment in machines and technical materials in order to use technology better and more effective.

### 工厂 ;

布鲁制冷 了解其产品的操作和功能的重要性，因此，所有生产过程都非常小心谨慎。

公司精心安排和管理生产的每一个阶段。

原材料输入按以下步骤检查：

- ◆ 原料输入控制
- ◆ 用等离子切割机进行长度切割和打孔。
- ◆ 板材切割用现代剪板机，板材拉伸用液压机和大量双级深拉伸压力机处理。
- ◆ 连接管等五金件用数控机床加工。
- ◆ 焊接的操作90%的用自动机器人完成。
- ◆ 气密性测试和测量测试用大容量螺杆式压缩机。
- ◆ 油漆工艺，用静电喷涂系统后磷酸盐清洗。
- ◆ 安装完的产品贴上标签，根据序列号分类存储。

布鲁制冷 大约85%产品都是在自己的工厂进行生产和产品认证的。

布鲁制冷在机器和技术材料增加投资，以便技术更好，更有效率。





Receiver Valve  
储液器阀



Cast Iron Stop Valve  
铸铁阀



Membrane Solenoid Valve  
膜片式电磁阀



Rotolock Valve  
美优乐阀



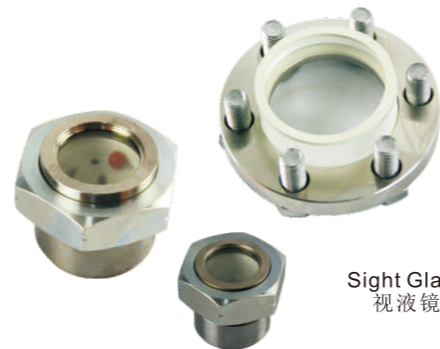
Ball Valve  
球阀



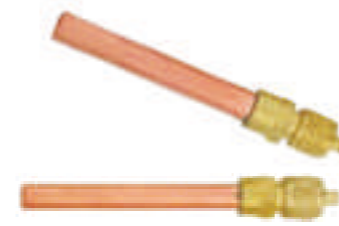
Solenoid Valve  
电磁阀



Piston Check Valve  
活塞式单向阀



Sight Glass  
视液镜



Access Valve  
加液阀



Check Valve  
单向阀



Sight Glass  
视液镜



Vibration Absorber  
避震管



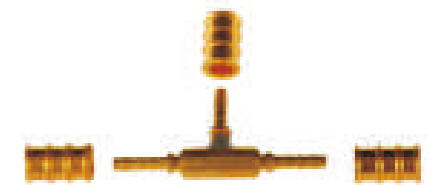
Sight Glass  
视液镜



Solenoid Valve Coil  
电磁阀线圈



Pressure Hose  
压力软管



Fitting  
接头



Pressure Hose Tools  
压力软管工具



Oil Pressure Gauge  
油压表



Fitting  
接头

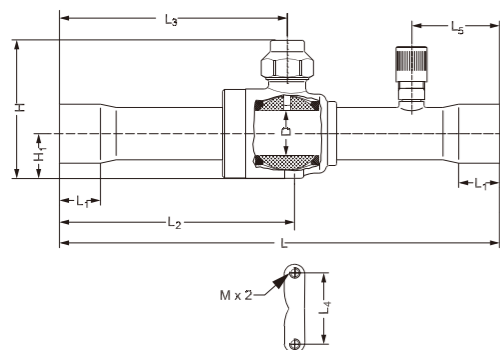
### General Description/描述

BLR/GBC ball valve is a manually regulated shut-off valve, which is applicable to two-direction flow. This is used on the liquid, air suction and hot vapor piping of the freezer, cold store and air conditioning unit. The valve seat of RW Series ball valve is well sealed with perfect sealing performance. It is a through-type ball valve with maximum flow rate and wide scope of operating temperature. BLR/GBC型球阀是手动调节的截止阀，适用于双向流动，用于冷冻、冷藏和空气调节装置的液体、吸气和热气管路上。它的阀座与密封处具有很好的密封性。该球阀为直通型，可提供最大的流量，同时该球阀的工作温度范围较宽。

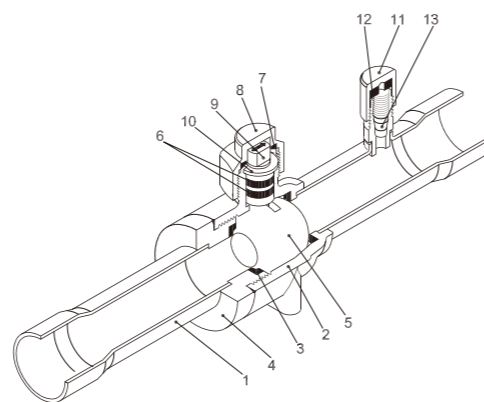
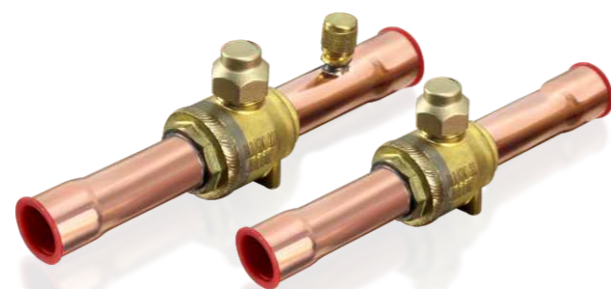
### Features/特点

- ◆ Flow without pressure drop
- ◆ 1/4 turn fully open to fully closed valve
- ◆ Rotation stop for fully open and fully closed valve
- ◆ Two-direction flow is available
- ◆ Argon arc welded structure
- ◆ Explosion-proof valve stem design
- ◆ Modified PTFE sealing
- ◆ Inside liquid accumulation is avoided
- ◆ 流动无压力降
- ◆ 从全开到全闭只需转动1/4圈
- ◆ 全开和全闭均有旋转限位
- ◆ 具有双向流动性
- ◆ 氩弧焊接结构
- ◆ 防爆阀杆设计
- ◆ 改性的PTFE密封
- ◆ 可防止内部积液
- ◆ 能安装在控制板上

Refrigerant 制冷剂	CFC, HCFC, HFC
Medium Temperature 介质温度	-40 to +150°C (-40°F to +300°F)
Max. Working Pressure 最大工作压力	45bar (653psi)
Max. Allowable Pressure 最大测试压力	65bar (943psi)



1. Connection
2. Laser-welded valve body
3. Ball seat (modified PTFE)
4. Valve adapter
5. Stainless steel ball
6. Double spindle O-ring seal (chloroprene)
7. Cap seal (PTFE)
8. Seal cap
9. Spindle
10. Support gasket
11. Access port cap
12. Seal gasket
13. Schraeder valve



### Technical Data / 技术参数

Model 型号		Connection 接口		Dimension (mm) 尺寸 (毫米)											Weight 重量 (Kg)
Standard 标准型	With access valve 带加液阀	Inch	mm	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	M (mm)	D (mm)	d (mm)	
BLR/GBC 6	BLR/GBC 6A	1/4	6	54	15	138	7	74	72	22	31	M4*0.7	14.0	1.5	0.2
BLR/GBC 10	BLR/GBC 10A	3/8	10	54	15	138	8	74	72	22	31	M4*0.7	14.0	1.5	0.2
BLR/GBC 12	BLR/GBC 12A	1/2	12	54	15	160	10	85	83	22	31	M4*0.7	14.0	1.5	0.2
BLR/GBC 16	BLR/GBC 16A	5/8	16	54	15	160	12	85	83	22	31	M4*0.7	14.0	1.5	0.2
BLR/GBC 18	BLR/GBC 18A	3/4	18	62	19	185	14	99	96	30	37	M4*0.7	19.0	1.5	0.4
BLR/GBC 22	BLR/GBC 22A	7/8	22	62	19	185	17	88	96	30	37	M4*0.7	19.0	1.5	0.4
BLR/GBC 28	BLR/GBC 28A	1 1/8	28	81	25	208	20	112	108	38	44	M4*0.7	25.5	1.5	0.9
BLR/GBC 35	BLR/GBC 35A	1 3/8	35	91	30	251	25	136	130	48	44	M6*1.0	32.0	1.5	1.4
BLR/GBC 42	BLR/GBC 42A	1 5/8	42	111	35	281	29	151	145	55	56	M6*1.0	38.0	1.5	2.2
BLR/GBC 54	BLR/GBC 54A	2 1/8	54	132	46	305	34	167	157	74	56	M6*1.0	50.0	1.5	4.2
BLR/GBC 67	BLR/GBC 67A	2 5/8	67	132	46	305	37	167	157	74	56	M6*1.0	50.0	1.5	4.4
BLR/GBC 79	BLR/GBC 79A	3 1/8	79	132	46	305	42	167	157	74	56	M6*1.0	50.0	1.5	4.5
BLR/GBC 105	BLR/GBC 105A	4 1/8	105	225.5	85.5	450	40	-	-	-	-	-	-	-	-

### General Description/描述

BLR/NRV Check Valve is used on the piping of liquid, suction gas or hot air on the freezing, cold storage and air conditioner units. The valve seat and seals have excellent sealing performance. Both threaded and welded connections are available for us. BLR/NRV单向阀用于冷冻、冷藏盒空气调节装置的液体、吸气和热气管路上，阀座与密封处具有很好的密封性。我们可提供螺口与焊口两种接口方式。

### Feature/特点

- ◆ For fluorinated refrigerants
- ◆ Resonance problems can be avoided at partial load in the refrigeration plant.
- ◆ Oversize connections provide flexibility in use.
- ◆ Prevents refrigerant from warm to cold system part.
- ◆ Ensures correct flow direction and avoid reversal.
- ◆ Both straightway and angleyway versions
- ◆ Built-in damping piston that makes the valves suitable for installation in lines where pulsation can occur, e.g. in the discharge line from the compressor.

- ◆ 适用于氟化物制冷剂
- ◆ 在部分负荷制冷装置上，共振问题可以避免
- ◆ 超大的接口让使用的时候更具灵活性
- ◆ 可防止制冷剂从高温蒸发器向低温蒸发器回流。
- ◆ 可确保正确的流动防线，防止反冲
- ◆ 有直通与直角型两种
- ◆ 内置减震垫，使阀门可以安装在压力有脉冲的管路上，比如在压缩机的管路上。

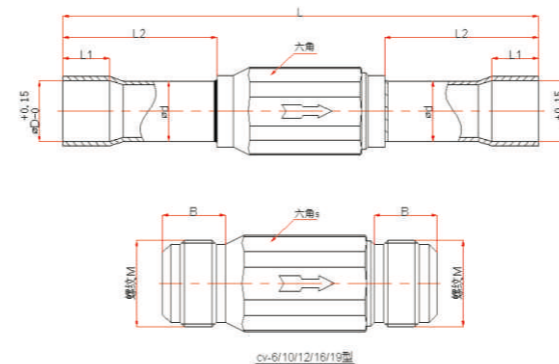
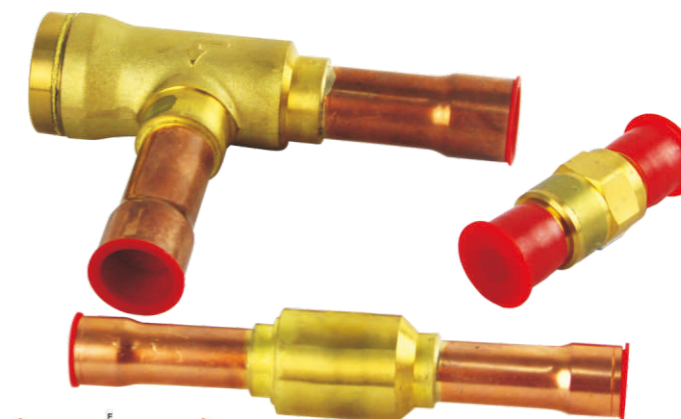


Figure 1

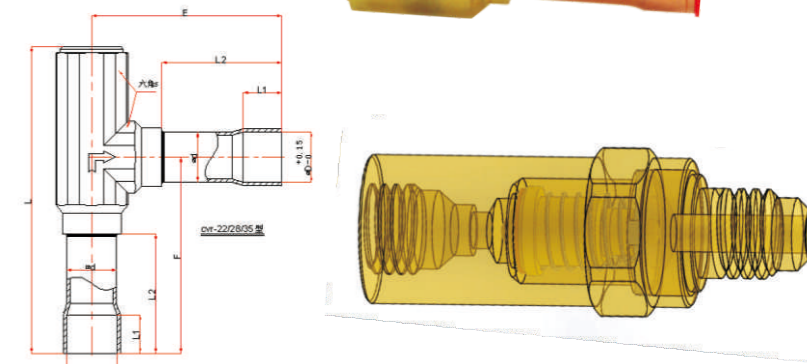


Figure 2

### Technical Data / 技术参数

Model 型号		Type 款式	Connection 接口		Dimension (mm) 尺寸 (毫米)						KV Factor KV值 (m3/h)	Figure No	
SAE	ODF		SAE	ODF	L	L1	L2	ΦD	Φd	E			F
BLR/NRV 6	BLR/NRV 6S	直通型 Direct Flow	1/4	1/4	86	7	29	6.5	6	-	-	0.56	Figure 1
BLR/NRV 10	BLR/NRV 10S		3/8	3/8	106	8	36	10.1	10	-	-	1.43	
BLR/NRV 12	BLR/NRV 12S		1/2	1/2	118	10	39	12.9	12	-	-	2.05	
BLR/NRV 16	BLR/NRV 16S		5/8	5/8	140	14	46	16.1	16	-	-	3.6	
BLR/NRV 19	BLR/NRV 19S		3/4	3/4	152	16	49	19.2	19	-	-	5.5	
-	BLR/NRVH 22S	直角型 Angle	-	7/8	136	17	53	22.3	22	84	87	8.5	Figure 2
-	BLR/NRVH 28S		-	1 1/8	184	20	70	28.7	28	114	106	19	
-	BLR/NRVH 35S		-	1 3/8	197	25	85	35.2	35	127	129	29	



### General Description/描述

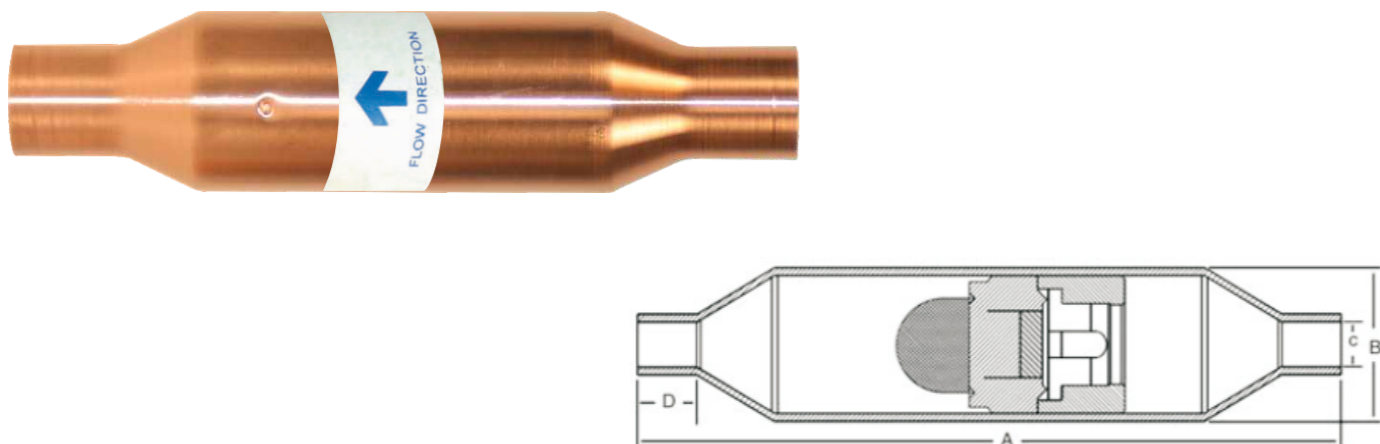
BLR/MCV Magnetic Check Valve was designed with magnet diaphragm, and sealed by the metal. It was used on the exhaust pipe of the compressor. For inside, it uses guide device and automatic suction design that prevents reverse refrigerant flow in liquid lines and compressor discharge lines.

膜片式单向阀采用磁性膜片设计，金属盒金属密封，可应用于压缩机排气管路上，内部采用导向装置、自吸机构设计，从而使单向阀不受安装角度限制和反向压力大小的关系影响阀门的自动闭合。

### Feature/特点

- ◆ Working temperature range (TS): -40°C to +130°C
- ◆ Compatible with all CFC, HCFC and HFC refrigerants and oils
- ◆ Flexible for installation in vertical or horizontal position
- ◆ Hermetically formed solid copper body assures zero leak potential.
- ◆ Minimum current resistance, large flow rate.
- ◆ Small volume, light weight and can be installed in any position
- ◆ Mesh in the valve body, it's not just a check valve, but also a filter.

- ◆ 工作温度范围：-40°C to +130°C
- ◆ 兼容所有含氟制冷剂与油
- ◆ 可以灵活的安装在垂直或水平位置
- ◆ 气体形成固体的铜保证了几乎零泄漏
- ◆ 极小的流通阻力，大流量，系统可忽略不计的损失效率
- ◆ 呈直线型，体积小，重量轻，安装角度不受限制
- ◆ 阀体中装有过滤网，兼备止回阀和过滤器功能



### Technical Data/技术参数

Model 型号	Connection / 接口		Dimensions (mm) / 尺寸 (毫米)						Weight (kg)	MWP (Bar)
			A		B		D			
	Inch	mm	Inch	mm	Inch	mm	Inch	mm		
BLR/MCV-4	1/4	6	4.02	102	0.88	22	0.34	9	0.09	55
BLR/MCV-6	3/8	10	4.02	102	0.88	22	0.34	9	0.09	55
BLR/MCV-8	1/2	13	5.18	131	1.13	29	0.41	10	0.16	48
BLR/MCV-10	5/8	16	5.18	131	1.13	29	0.53	13	0.16	48
BLR/MCV-12	3/4	19	7.04	179	1.63	41	0.65	17	0.4	48
BLR/MCV-14	7/8	22	7.04	179	1.63	41	0.78	20	0.27	48
BLR/MCV-18	1 1/8	29	8.43	214	2.13	54	0.94	24	0.73	48
BLR/MCV-22	1 3/8	35	9.41	239	2.63	67	1.00	25	1.24	48
BLR/MCV-26	1 5/8	41	10.55	268	3.13	79	1.12	28	1.77	48
BLR/MCV-34	2 1/8	54	12.06	306	3.63	92	1.37	35	2.72	48
BLR/MCV-42	2 5/8	67	13.05	331	4.13	105	1.5	38	3.18	48
BLR/MCV-50	3 1/8	79	13.05	331	4.13	105	1.69	43	3.37	45

### General Description/描述

BLR Receiver Valve are designed for installation on commercial refrigerating systems and on civil and industrial conditioning plants. These valves are available with two ways, 90° angle connections.

BLR型储液器阀可使用在商业制冷系统、民用和工业空调设备上。这些阀门是二通的90度直接头的。

### Feature/特点

- ◆ Forged brass body
- ◆ Compatible with all CFC, HCFC and HFC refrigerants and oils.
- ◆ We can provide material with iron
- ◆ 黄铜阀体
- ◆ 兼容所有的含氟制冷剂和油
- ◆ 我们可以提供铁阀体的

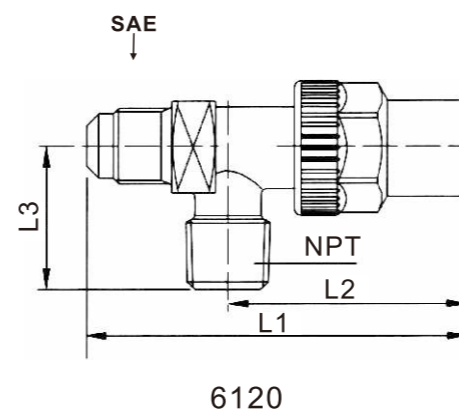


Figure 2

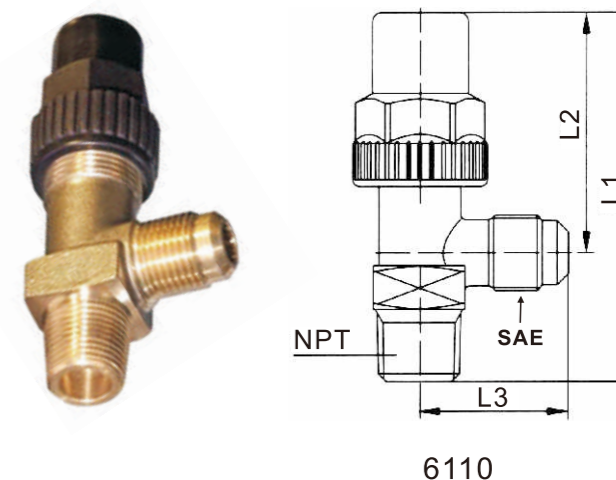


Figure 1



### Technical Data/技术参数

Model 型号	Connection 接口尺寸		Dimensions 尺寸 (mm)			Weight 重量 (g)	Temperature Range (°C) 温度范围	Max Working Pressure (Bar) 最大工作 压力	KV Factor KV值 (m3/h)	Figure No
	SAE	NPT	L1	L2	L3					
BLR-6110/22	1/4"	1/4"	72	48	27.5	110	-60 to +130	35	0.44	Figure 1
BLR-6110/23	1/4"	3/8"	77	50	29	135			0.45	
BLR-6110/32	3/8"	1/4"			31	130			1.35	
BLR-6110/33	3/8"	3/8"	88	55.5	34.5	140			2.4	
BLR-6110/43	1/2"	3/8"				220			3.4	
BLR-6110/44	1/2"	1/2"	92	88	42.5	235			6	
BLR-6110/54	5/8"	1/2"				245			3.4	
BLR-6110/66	3/4"	3/4"	128	88	42.5	675			6	
BLR-6120/22	1/4"	1/4"	72	-	27.5	110			0.44	Figure 2
BLR-6120/23	1/4"	3/8"	77		130	0.45				
BLR-6120/33	3/8"	3/8"	80		140	1.35				
BLR-6120/43	1/2"	3/8"	93		30	33			225	
BLR-6120/44	1/2"	1/2"					305	3.4		
BLR-6120/54	5/8"	1/2"	94		245	6				
BLR-6120/66	3/4"	3/4"	130		40	670	670	6		

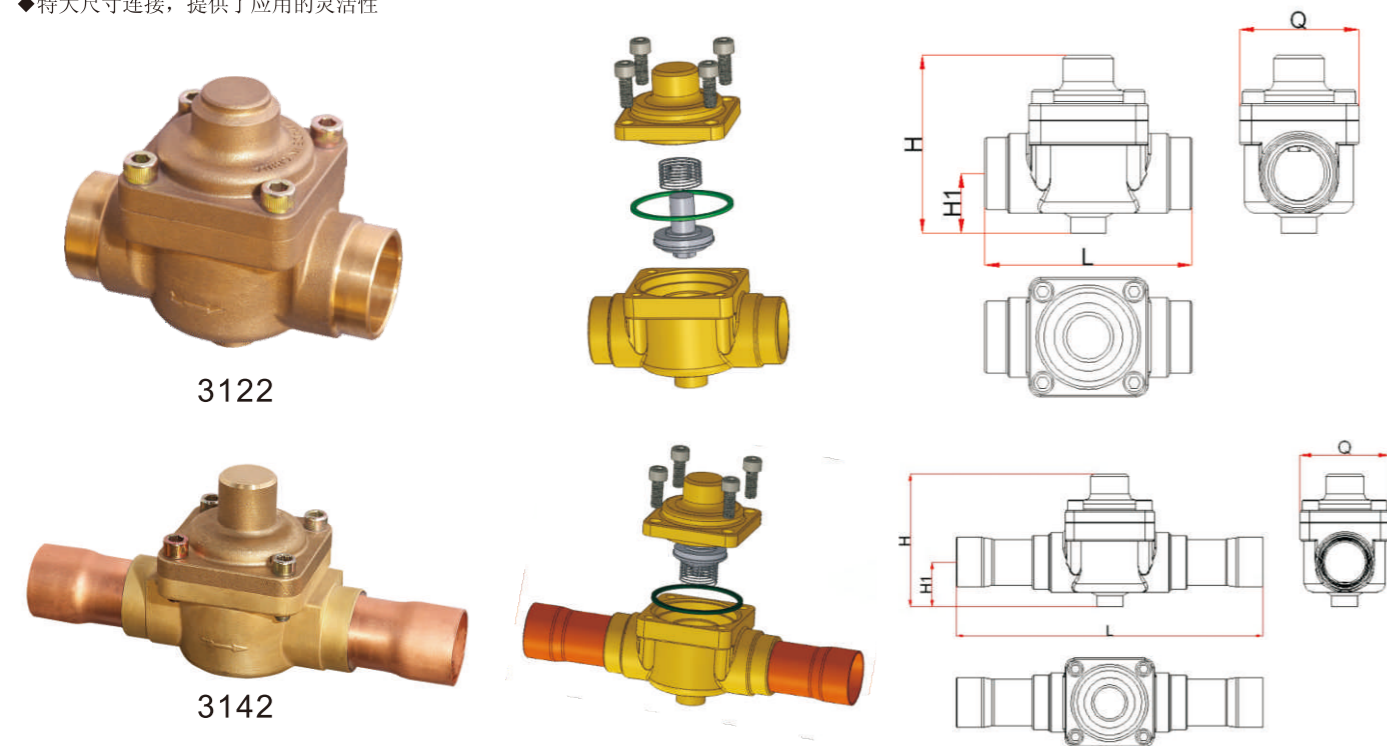
### General Description/描述

BLR plunger single check valve can open and close by itself, which can be installed in commercial refrigeration system, civil, and industrial equipment.

BLR型活塞式单向阀可使用在商业制冷系统、民用和工业空调设备上，它设计采用活塞自密封，从而使单向阀能够安装在冷冻系统中任何制冷剂流向需要改变的部位。

### Feature/特点

- ◆ The valve ensure the correct flow direction only.
- ◆ Prevents back-condensation from warm to cold evaporator.
- ◆ Built-in damping piston that makes the valves suitable for installation in lines where pulsation can occur, e.g. in discharge line from the compressor
- ◆ Oversize connection provide flexibility in use.
- ◆ 该阀可确保只有正确的流动方向
- ◆ 防止制冷剂从高温蒸发器到低温蒸发器的回流
- ◆ 内置减震活塞，使活塞式单向阀能够安装在有压力脉动的地方，如压缩机的排气管路上
- ◆ 特大尺寸连接，提供了应用的灵活性



### Technical Data/技术参数

Model 型号	Connection 接口尺寸		H		H1		L		Q	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
BLR-3122/7	7/8	22.4	3.3	84.5	1.1	28.5	3.9	100.0	2.4	60.0
BLR-3122/9	1 1/8	28.8	3.3	84.5	1.1	28.5	3.9	100.0	2.4	60.0
BLR-3122/11	1 3/8	35.0	4.0	101.5	1.3	34.0	4.6	118.0	2.8	68.0
BLR-3122/13	1 5/8	42.0	4.9	125.5	1.5	37.0	5.6	141.0	3.5	88.0
BLR-3122/17	2 1/8	54.0	5.6	142.0	1.7	42.5	6.8	173.0	4.1	104.0
BLR-3142/7	7/8	22.4	3.3	84.5	1.1	28.5	6.7	170.0	2.4	60.0
BLR-3142/9	1 1/8	28.8	3.3	84.5	1.1	28.5	7.9	201.0	2.4	60.0
BLR-3142/11	1 3/8	35.0	4.0	101.5	1.3	34.0	9.1	232.0	2.8	68.0
BLR-3142/13	1 5/8	42.0	4.9	125.5	1.5	37.0	10.1	256.0	3.5	88.0
BLR-3142/17	2 1/8	54.0	5.6	142.0	1.7	42.5	11.2	285.0	4.1	104.0

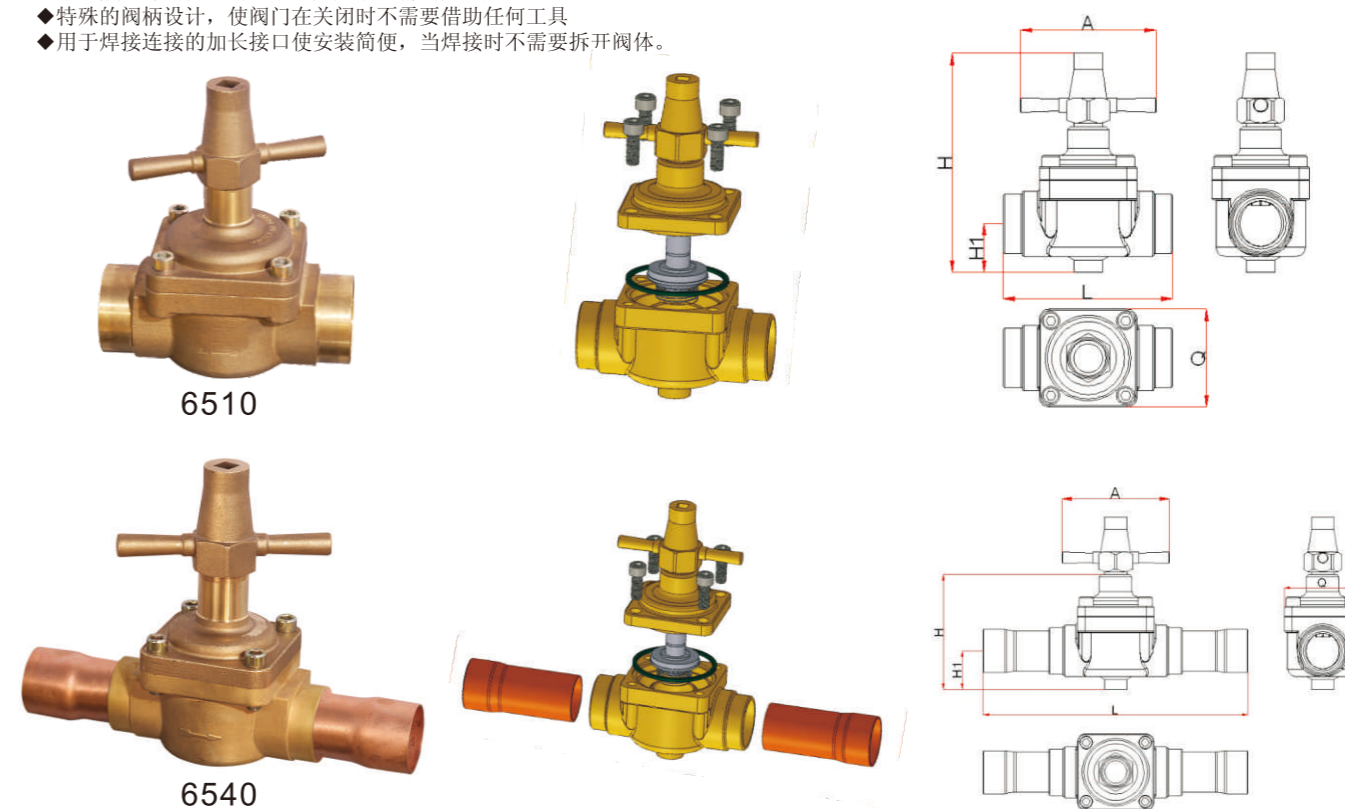
### General Description/描述

BLR Globe valve could be used in commercial, civil, industrial air-conditioning system, the spindle is automatic closed, it can be installed in any position which needs to change the direction.

BLR型截止阀可使用在商业制冷系统、民用和工业空调设备上，它设计采用阀杆自密封，从而使用止回阀能够安装在冷冻系统中任何制冷剂流向需要改变的部位。

### Feature/特点

- ◆ Can be used for all fluorinated refrigerants.
- ◆ Valve plate of polyamide nylon to give complete shutoff with minimum torque.
- ◆ Valve handle with special designed, can be shut-off without using any tools.
- ◆ Extended copper connection makes installation easier. We don't need to open the valve during welding.
- ◆ 可适用于所有的氟化物制冷剂
- ◆ 聚四氟乙烯阀板，用最小的力矩就可将阀关闭严密
- ◆ 特殊的阀柄设计，使阀门在关闭时不需要借助任何工具
- ◆ 用于焊接连接的加长接口使安装简便，当焊接时不需要拆开阀体。



### Technical Data/技术参数

Model 型号	Connection 接口尺寸		H		H1		L		Q		A	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
BLR-6510/7	7/8	22.4	5.4	136	1.1	28.5	3.9	100	2.4	60	3.7	94
BLR-6510/9	1 1/8	28.8	5.4	136	1.1	28.5	3.9	100	2.4	60	3.7	94
BLR-6510/11	1 3/8	35.0	6.5	166	1.3	34	4.6	118	2.7	68	5.0	126
BLR-6510/13	1 5/8	42.0	7.8	199	1.5	37	5.5	141	3.4	88	5.4	138
BLR-6510/17	2 1/8	54.0	8.5	215	1.7	42.5	6.8	173	4.1	104	5.4	138
BLR-6540/7	7/8	22.4	5.4	136	1.1	28.5	6.7	170	2.4	60	3.7	94
BLR-6540/9	1 1/8	28.8	5.4	136	1.1	28.5	7.9	201	2.4	60	3.7	94
BLR-6540/11	1 3/8	35.0	6.5	166	1.3	34	9.1	232	2.7	68	5.0	126
BLR-6540/13	1 5/8	42.0	7.8	199	1.5	37	10.1	256	3.4	88	5.4	138
BLR-6540/17	2 1/8	54.0	8.5	215	1.7	42.5	11.2	285	4.1	104	5.4	138



### General Description/描述

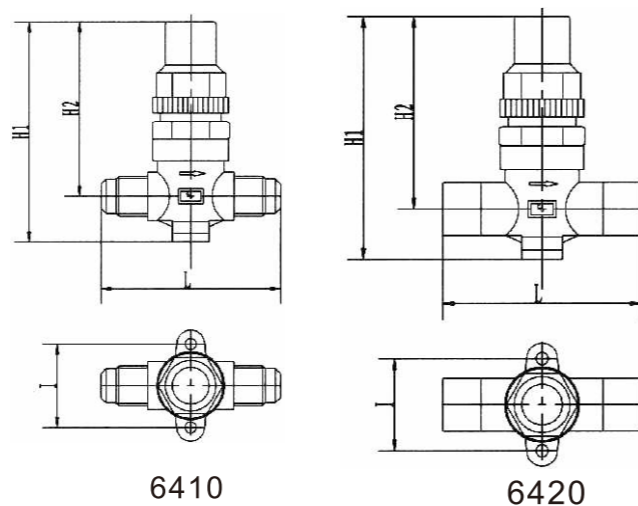
BLR capped valve can be used in commercial refrigeration system, civil and industrial air conditioning equipments. It was designed with automatic closing seal by spindle, so that this valve can be installed on anywhere of refrigerant flow position of the system which needs close.

BLR 型顶盖阀可使用在商业制冷系统、民用和工业空调设备上，他采用阀杆自闭密封，从而使截止阀能够安装在冷冻系统中任何制冷剂流向需要关闭的部位。

### Feature/特点

- ◆ Can be used for all fluorinated refrigerants and oils.
- ◆ Forged brass body, Hermetic design.
- ◆ Valve plate of polyamide nylon to give complete shut-off with minimum torque.
- ◆ Special designed of valve handle make it shut-off without the use of tools.
- ◆ Extended ends for soldering make installation easy, it is not necessary to dismantle the valve when soldering.

- ◆ 可用于所有的氟化物制冷剂与油
- ◆ 黄铜阀体，密封设计
- ◆ 聚四氟乙烯阀板，用最小的力矩就可将阀关闭严密
- ◆ 特殊的阀柄设计，使阀门在关闭时不需要借助任何工具
- ◆ 用于焊接连接的加长接口使安装简便，当焊接时不需要拆除阀体。



### Technical Data/技术参数

Model 型号	Connection 接口尺寸		Dimensions 尺寸 (mm)					Weight 重量 (g)	Temperature Range(°C) 温度范围	Max Working Pressure (Bar) 最大工 作压力	KV Factor KV值 (m3/h)
	Inch	mm	H1	H2	L1	d	l				
BLR-6410/2	1/4"SAE		85.5	67	68	4.5	38	305	-60 to +130	35	0.40
BLR-6410/3	3/8"SAE				74						1.00
BLR-6410/4	1/2"SAE				78						1.45
BLR-6410/5	5/8"SAE			330	1.70						
BLR-6410/6	3/4"SAE		113	89.5	98	6.2	50	695			3.50
BLR-6420/2	1/4"ODF		85.5	67	57	4.5	38	305			0.40
BLR-6420/3	3/8"ODF				61						1.00
BLR-6420/M10	10				70						1.45
BLR-6420/M12	12				71						1.70
BLR-6420/4	1/2"ODF										
BLR-6420/5	5/8"ODF	16	113	89.5	92	6.2	50	700			3.50
BLR-6420/M18	18				685						
BLR-6420/6	3/4"ODF				94				690		
BLR-6420/M22	22										
BLR-6420/7	7/8"ODF										

### General Description/描述

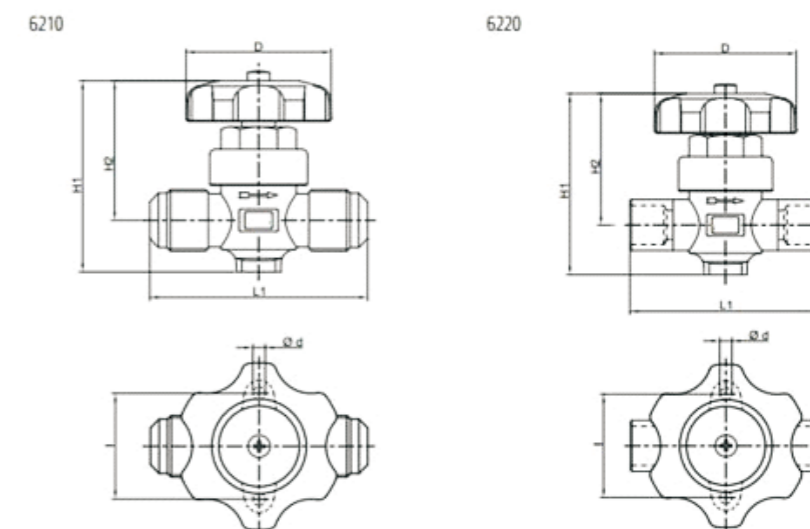
BLR type hand valve is a manual shut-off valve designed for installation in the liquid, suction and hot gas lines of refrigeration plant. It doesn't have gland seal. The external sealing is ensured by some thin metal discs (diaphragms), which hermetically divide the spindle chamber from the fluid flow area.

BLR 款式手阀是手动截止阀，用于制冷装置的液体、吸气和热气管路上。它没有压盖密封。表面的密封性由一些薄的金属盘片保证，它们密封地将液体流动区域与轴腔分隔开来。

### Feature/特点

- ◆ Applicable to all fluoride refrigerants
- ◆ Fitted with three stainless steel diaphragms that prevent leakage throughout the operating life of the valve.
- ◆ Valve plate of polyamide nylon to give complete shut with minimum torque.
- ◆ Valve cover with special designed to prevent ingress of moisture

- ◆ 可用于所有的氟化物制冷剂
- ◆ 带有三个不锈钢膜片，在阀的整个使用寿命期间被防止泄露
- ◆ 聚四氟乙烯阀板，用最小的力矩就可将阀关闭严密
- ◆ 特殊阀盖设计，防止湿气进入阀体内部。



### Technical Data/技术参数

Model 型号	Connection 接口尺寸	Dimensions 尺寸 (mm)						Weight 重量 (g)	Temperature Range(°C) 温度范围	Max Working Pressure (Bar) 最大工 作压力	KV Factor KV值 (m3/h)		
		H1	H2	L1	d	l	D						
BLR-6210/2	1/4" SAE	68	53.5	58	4.5	38	52	200	-30 to +90	28	0.28		
BLR-6210/3	3/8" SAE	72		74				325			1.00		
BLR-6210/4	1/2" SAE			78				335			1.30		
BLR-6210/5	5/8" SAE			340	1.80								
BLR-6210/6	3/4" SAE	86	62.5	98	6.2	50	60	655			3.65		
BLR-6220/2	1/4" ODF	68	72	53	4.5	38	52	195			-30 to +90	28	0.28
BLR-6220/3	3/8" ODF	61		300				1.00					
BLR-6220/4	1/2" ODF	70		305				1.30					
BLR-6220/5	5/8" ODF	71		305				1.80					
BLR-6220/6	3/4" ODF	92		580				3.65					
BLR-6220/7	7/8" ODF	86	62.5	94	6.2	50	60	645					3.65

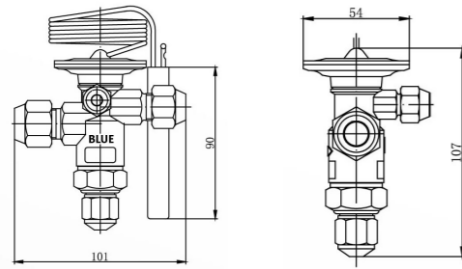
BLR/NRF/ NRFE series thermostatic expansion valve is a new design, introduced from ALCO technology using various charge method suitable for the application of Freezer, ice maker, dehumidifier, etc. with wide temperature range.

BLR/NRF/ NRFE 系列是新一代热力膨胀阀, 它吸收美国ALCO公司的引进技术, 可提供多种制冷剂及其各种工况下的充注, 能满足冷藏柜, 制冰机, 除湿机及各种温度范围内的制冷、空调需求, 并能和R系列膨胀阀互换。

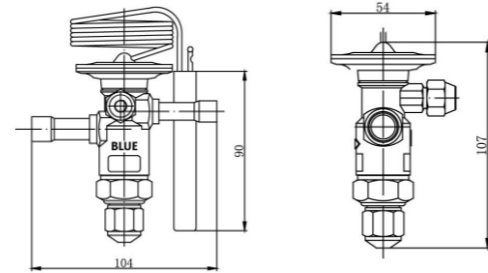
### Features /特点

- ◆ Constant super heat adjusting performance.
- ◆ Evaporator temperature range: -40°C~+10°C
- ◆ With MOP function
- ◆ Filter strainer changeable
- ◆ Suitable for R22, R502, R134a, R404A, R507

- ◆ 稳定的过热度调节性能。
- ◆ 蒸发温度范围: -40°C至10°C。
- ◆ 可提供MOP (马达过载保护) 功能。
- ◆ 可进口滤网。
- ◆ 适用于R22、R502、R134a、R404A、R507等介质。



SAE



ODF

### Technical data /技术参数

R04A			R22			R502			R134a			Connection		Capillary Length	Type of equalizer
Model	Normal Capacity	Model	Normal Capacity	Model	Normal Capacity	Model	Normal Capacity	Model	Normal Capacity	Intet	Outlet				
Internal equalizer	External equalizer	Internal equalizer	External equalizer	Internal equalizer	External equalizer	Internal equalizer	External equalizer	Internal equalizer	External equalizer						
BLR/NRF 1/4FS	BLR/NRFE 1/4FS	BLR/NRF 1/2H	BLR/NRFE 1/2H	BLR/NRF 1/4R	BLR/NRFE 1/4R	BLR/NRF 1/2M	BLR/NRFE 1/2M	BLR/NRF 1M	BLR/NRFE 1M						
BLR/NRF 1/2FS	BLR/NRFE 1/2FS	BLR/NRF 1H	BLR/NRFE 1H	BLR/NRF 1/2R	BLR/NRFE 1/2R	BLR/NRF 1R	BLR/NRFE 1R	BLR/NRF 1M	BLR/NRFE 1M						
BLR/NRF 1FS	BLR/NRFE 1FS	BLR/NRF 1-1/2H	BLR/NRFE 1-1/2H	BLR/NRF 1R	BLR/NRFE 1R	BLR/NRF 1M	BLR/NRFE 1M	BLR/NRF 1M	BLR/NRFE 1M						
BLR/NRF 1-1/2FS	BLR/NRFE 1-1/2FS	BLR/NRF 2H	BLR/NRFE 2H	BLR/NRF 1-1/2R	BLR/NRFE 1-1/2R	BLR/NRF 1-1/2M	BLR/NRFE 1-1/2M	BLR/NRF 2M	BLR/NRFE 2M						
BLR/NRF 2FS	BLR/NRFE 2FS	BLR/NRF 3H	BLR/NRFE 3H	BLR/NRF 2R	BLR/NRFE 2R	BLR/NRF 2M	BLR/NRFE 2M	BLR/NRF 2M	BLR/NRFE 2M						
BLR/NRF 3FS	BLR/NRFE 3FS	BLR/NRF 5H	BLR/NRFE 5H	BLR/NRF 3R	BLR/NRFE 3R	BLR/NRF 3M	BLR/NRFE 3M	BLR/NRF 3M	BLR/NRFE 3M						
BLR/NRF 4FS	BLR/NRFE 4FS	BLR/NRF 7-1/2H	BLR/NRFE 7-1/2H	BLR/NRF 4-1/2R	BLR/NRFE 4-1/2R	BLR/NRF 5-1/2M	BLR/NRFE 5-1/2M	BLR/NRF 5-1/2M	BLR/NRFE 5-1/2M						
BLR/NRF 6-1/2FS	BLR/NRFE 6-1/2FS	BLR/NRF 10H	BLR/NRFE 10H	BLR/NRF 7R	BLR/NRFE 7R	BLR/NRF 7-1/2M	BLR/NRFE 7-1/2M	BLR/NRF 7-1/2M	BLR/NRFE 7-1/2M						
BLR/NRF 7-1/2FS	BLR/NRFE 7-1/2FS	BLR/NRF 12H	BLR/NRFE 12H	BLR/NRF 8R	BLR/NRFE 8R	BLR/NRF 9R	BLR/NRFE 9R	BLR/NRF 9R	BLR/NRFE 9R						

### 1. Super-heat adjusting / 过热度调节

Take off cap and turn adjusting stem. Turn adjusting stem clockwise one round, increases super-heat 1.5°C. turn adjusting stem counter clockwise one round, reduces super-heat 1.5°C. Set super-heat 3.5°C when exit factory. Static super-heat adjusting range is 2~8°C.

旋下密封螺帽, 旋转调节杆。顺时针转动调节杆一圈, 过热度增加1.5°C, 逆时针转动调节杆一圈, 过热度减少1.5°C。出厂过热度设定为3.5°C, 静过热度调节范围2~8°C。

### 2. Installation / 安装使用

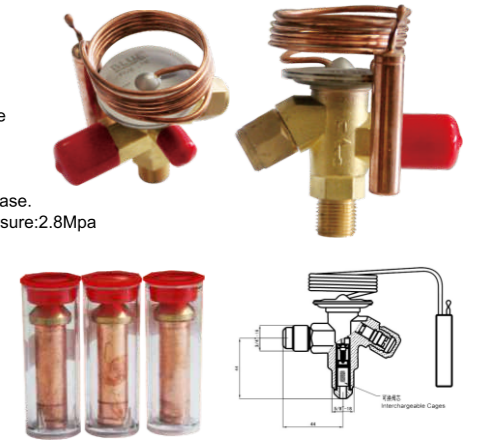
Valve inlet connects with receiver and outlet connects with the inlet of evaporator. Bulb should be equipped outlet of evaporator sense correct superheat. External equalization tube connects at the top side of suction line close the bulb.

阀的进口接储液筒, 出口接蒸发器入口端。感温包的安装应保证感温包充分感受蒸发器出口温度, 外平衡管安装位置在感温包附近, 从回气管顶部引出。

### Features/特点

- ◆ Thermostatic Expansion valve is a kind of thermostatic expansion valve with Interchangeable cages suitable for automatic supply and regulation of the refrigerating medium of small and middle size dry evaporator.
- ◆ The hybrid charge technology is applied to inside of the bulb with the advantage of equal superheat characteristic in the whole working temperature range. This technology ensures the utilizing ratio of thermal conduction area of the evaporator not be reduced and temperature of environment where the valve body and bulb not be restricted.
- ◆ Both external and internal equalizer are furnished, especially, the former of which efficiently eliminates the influence resulted from the loss of evaporator pressure.
- ◆ The Interchangeable cages is easy to store and maintain, making the equipment to match with the system with ease.
- ◆ The outside adjustment superheat is furnished, which is set at 3°C (when delivering from factory). Safe working pressure: 2.8Mpa

- ◆ 热力膨胀阀是一种可换阀芯的热力膨胀阀, 它适合于各种中小型干式蒸发器制冷剂的自动调节供给;
- ◆ 感温包内采用混合充注技术, 在整个温度范围中具有等过热度的特性, 使蒸发器传热面积的利用率在低温状态时不会被降低。
- ◆ 并且使阀体和感温包所处位置的温度不受限制;
- ◆ 具有外部压力平衡和内部压力平衡二种形式, 有效的外部压力平衡系统消除了由于蒸发器压力损失带来的影响;
- ◆ 可换的阀芯易于库存, 方便于机组调整容量与系统匹配, 并且维修也方便。
- ◆ 外部可调过热度, 出厂过热度设在3°C, 安全工作压力为2.8Mpa



### Technical data /技术参数

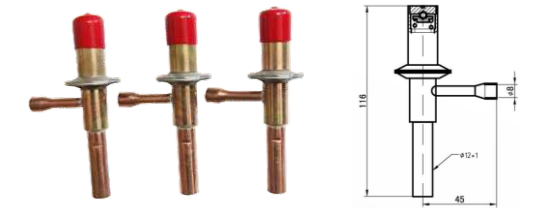
Model 型号	Refrigerant 制冷剂	Suitable temperature range 适用温度	Connection 接口尺寸			Length of Capillary 毛细管长度	Emerson cross model 艾默生对照型号		Danfoss cross model 丹佛斯对照型号	
			Inlet 进口	Outlet 出口	External equalizer 外平衡		Internal equalizer 内平衡	External equalizer 外平衡	Internal equalizer 内平衡	External equalizer 外平衡
BLR/TI-MC	R134a	From -40 to +10°C	3/8"	1/2"	1/4"	1 m	TI-MW	TIE-MW	TN2	TEN2
BLR/TI-HC	R22						TI-HW	TIE-HW	TX2	TEX2
BLR/TI-SC	R404						TI-SW	TIE-SW	TS2	TES2
BLR/TI-RC	R502									

Orifice Model	Refrigerating capacity of replaceable orifice (Ton)				Emerson cross model 艾默生对照型号	Danfoss cross model 丹佛斯对照型号
	R134a	R22	R404A/R507	R407C		
BLR/A00	0.25	0.30	0.21	0.31	TIO-000	068-2003
BLR/A01	0.58	0.70	0.49	0.72	TIO-001	068-2010
BLR/A02	0.79	0.95	0.67	1.05	TIO-002	068-2015
BLR/A03	1.33	1.60	1.12	1.76	TIO-003	068-2006
BLR/A04	1.90	2.30	1.61	2.37	TIO-004	068-2007
BLR/A05	2.47	2.96	2.07	3.20	TIO-005	068-2008
BLR/A06	4.02	4.82	3.37	5.30	TIO-006	068-2009

## BLR/BEV Hot Gas Bypass Expansion Valves BLR/BEV 型热气旁通阀

### Features/特点

- ◆ The Model BLR/DEV Discharge-bypass valve is used in the refrigerating compressor set, which is not equipped with energy unloading device, to realize the systematic energy regulation.
- ◆ The Model BLR/DEV Discharge-bypass valve can be used as automatic expansion valve under fixed pressure to maintain the fixed evaporation pressure (temperature).
- ◆ The Model BLR/DEV Discharge-bypass valve is capable to prevent the refrigeration compressor set from extract decreasing lower than the minimum value.
- ◆ BLR/DEV型旁通阀用于不具备能量卸载机构的制冷压缩机实现系统能量调节;
- ◆ BLR/DEV型旁通阀可用作定压式膨胀阀, 保持固定的蒸发压力 (温度);
- ◆ BLR/DEV型旁通阀可防止制冷压缩机组的吸气压力不低於其最低极限值;



### Technical data /技术参数

Model 型号	Adjustment range 压力调节范围	capability 公称冷量 (KW)			Set pressure 设定压力	Connecting size 连接形式尺寸	Weight (kg)
		R134a	R22	R502			
BLR/BEV-05	0~0.7Mpa	1.5	2.8	2	0 Mpa	Inlet 8*1 Outlet 10*1	0.15
BLR/BEV-08		2.4	4.5	3			
BLR/BEV-10		3	5.6	3.8			
BLR/BEV-15		4.2	8.4	5.8			
BLR/BEV-20		5.7	11.2	7.5			
BLR/BEV-30		8.5	16.8	11.7			



### Description / 描述

This kind of electronic expansion valve overturns the design of cone-needle expansion valve on the existing market and satisfies the true Bi-flow control; and according to the actual working conditions, the flow curve is optimized and adjusted to meet the requirements of different air conditioning and refrigeration conditions.

此款电子膨胀阀颠覆了现有市场上锥形针式膨胀阀的设计，满足了真正意义上的双向流量控制；并且根据实际工况需求，优化调整流量曲线，满足不同空调、制冷工况的需求。

### General Specification

- ◆ Applicable refrigerant: R22, R134a, R410A, R407C, and R32, etc.
- ◆ Capacity range: 10~125KW (nominal capacity of R22)
- ◆ Medium temperature: -30°C~+100°C (energization rate below 50%)
- ◆ Ambient temperature: -30°C~+100°C (energization rate below 50%)
- ◆ Relative humidity: below 95% RH
- ◆ Fully open pulse: 470
- ◆ Valve opening pulse: 40±20
- ◆ Hysteresis: 20

Installation method: the coil faces upwards, the center axis of the valve body rotor is perpendicular to the horizontal plane, with the deviation within ±15°

### Electrical parameters:

- ◆ Rated voltage: 12V DC (±10%), rectangular wave
  - ◆ Manner of action: 4-phase 8-beat permanent magnet stepper motor
  - ◆ Excitation mode: 1~2-phase excitation, unipolar drive
  - ◆ Excitation speed: 35~45pps, 40pps is recommended
  - ◆ At end of the excitation mode, keep 0.1~1.0s
  - ◆ Pre-excite the previous position 0.1~1.0s before restarting
  - ◆ Action time from fully open to fully closed: 13s (40pps)
  - ◆ Coil current: 300mA/phase (20°C)
  - ◆ Coil resistance: 40±10%Ω/phase (20°C)
  - ◆ Coil insulation class: Class B
  - ◆ Stator fire rating, protection rating: UL94 V0, IP 67
- \*Stator and wiring: IP55 aviation or integrated

### Pneumatic parameters:

- ◆ Hydraulic strength: 6.7MPa
- ◆ Breaking strength: 18MPa
- ◆ Maximum Bi-flow working pressure: 4.5MPa
- ◆ Maximum Bi-flow operating pressure difference: 3.5MPa
- ◆ Internal leakage in closed state: ≤100ml/min(1.0MPa)

### 通用规格

- ◆ 适用制冷剂: R22, R134a, R410A, R407C, R32等
- ◆ 容量范围: 10~125KW (R22名义容量)
- ◆ 介质温度: -30°C~+100°C (通电率50%以下)
- ◆ 环境温度: -30°C~+100°C (通电率50%以下)
- ◆ 相对湿度: 95%RH以下
- ◆ 全开脉冲: 470
- ◆ 开阀脉冲: 40±20
- ◆ 迟滞: 20

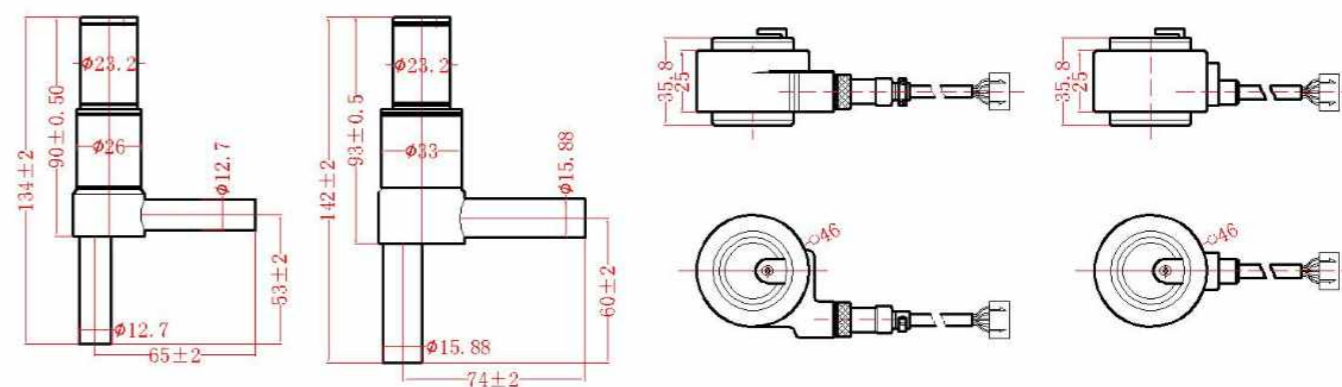
安装方式: 线圈朝上, 阀体转子中轴线与水平面垂直, 偏差在±15°以内

### 电气参数:

- ◆ 额定电压: 12V DC (±10%), 矩形波
  - ◆ 动作方式: 4相8拍永磁型步进电机
  - ◆ 励磁方式: 1~2相励磁, 单极驱动
  - ◆ 励磁速度: 35~45pps, 建议40pps
  - ◆ 结束励磁模式保持0.1~1.0s
  - ◆ 重新启动前预先励磁上一个位置0.1~1.0s
  - ◆ 全开到全关动作时间: 13s (40pps)
  - ◆ 线圈电流: 300mA/相 (20°C)
  - ◆ 线圈电阻: 40±10%Ω/相 (20°C)
  - ◆ 线圈绝缘等级: B级
  - ◆ 定子防火等级, 防护等级: UL94 V0, IP 67
- \*定子及接线: IP55航空或一体化

### 气动参数:

- ◆ 液压强度: 6.7MPa
- ◆ 破坏强度: 18MPa
- ◆ 双向最高工作压力: 4.5MPa
- ◆ 双向最大动作压差: 3.5MPa
- ◆ 关闭状态内漏: ≤100ml/min(1.0MPa)



BLR/EEV30A BLR/EEV40B BLR/EEV45A BLR/EEV65B BLR/EEV55B BLR/EEV70B BLR/EC01 LINK \* BLR/EC02 LINK

Model 型号	Part No. 部件号	Nominal refrigerating capacity [KW] 名义制冷量					Pipe size 接管规格
		R22	R134a	R410A	R407C	R32	
BLR/EEV30A	301101	37.9	29.6	44.3	39	61.3	φ 12.7
BLR/EEV40B	402101	51.7	40.3	60.5	53.2	86.1	φ 12.7
BLR/EEV45A	451101	73.3	57.2	85.7	75.5	122	φ 15.88
BLR/EEV55B	552101	80.6	62.9	94.3	83.1	134.5	φ 15.88
BLR/EEV65B	652101	95.6	74.5	111.8	98.4	158.7	φ 15.88
BLR/EEV70B	702101	131.1	102.1	153.3	134.9	217.6	φ 15.88

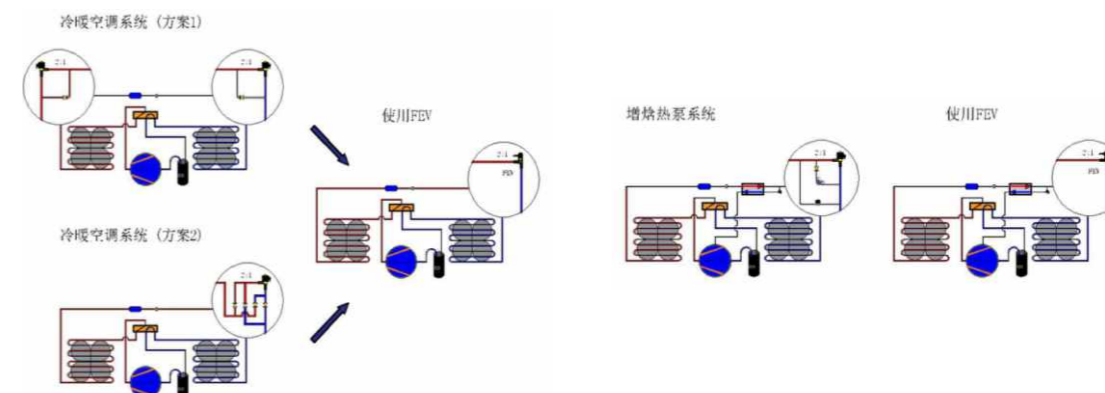


Model 型号	forward MOPD	reverse MOPD	Sanhua	forward MOPD	reverse MOPD	SAGLNOMIYA	Emerson	Danfoss	Carel	Sporland
BLR/EEV30A	3.5mpa	3.5mpa	DPF1.3	3.5mpa	2.5mpa	UKV10	-	-	-	-
	3.5mpa	3.5mpa	DPF1.65	3.5mpa	2.5mpa	-	-	-	-	SER1.5
	3.5mpa	3.5mpa	DPF1.8	3.5mpa	2.5mpa	UKV18	-	-	E2V18	-
	3.5mpa	3.5mpa	DPF2.0	3.5mpa	2.5mpa	-	-	-	-	-
	3.5mpa	3.5mpa	DPF2.2	3.5mpa	2.5mpa	-	DX3-006	-	-	-
	3.5mpa	3.5mpa	DPF2.4	3.5mpa	2.5mpa	UKV25	DX3-008	-	E2V24	SER6
BLR/EEV40B	3.5mpa	3.5mpa	DPF3.0	3.5mpa	1.5mpa	UKV30	DX3-010	-	-	-
	3.5mpa	3.5mpa	DPF3.2	3.5mpa	1.5mpa	UKV32	DX3-012	-	E2V35	SER11
BLR/EEV45A	3.5mpa	3.5mpa	DPF4.0	3.5mpa	0.7mpa	UKV40	DX3-015	-	-	-
	3.5mpa	3.5mpa	NA	NA	NA	NA	DX3-020	-	-	-
BLR/EEV55B	3.5mpa	3.5mpa	DPF4.5	3.5mpa	0.7mpa	-	DX3-020	ETS12	-	SEI20
	3.5mpa	3.5mpa	DPF5.5	3.5mpa	0.7mpa	-	DX3-025	ETS12	-	-
BLR/EEV65B	3.5mpa	3.5mpa	DPF6.5	3.5mpa	0.7mpa	-	-	ETS24	-	SEI30
	3.5mpa	3.5mpa	NA	NA	NA	NA	NA	ETS25	-	-

### Comparison of application of systems

系统应用对比:

冷暖空调系统 (方案1) The (heating and cooling) air conditioner system (Solution 1)





### General Description/描述

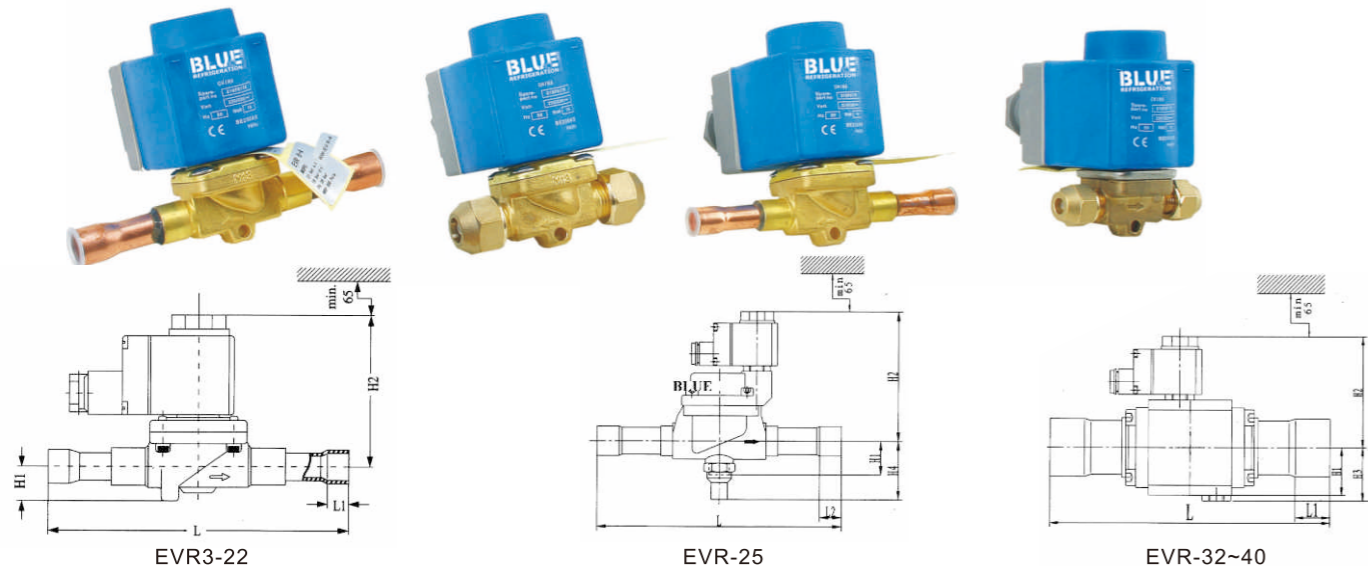
BLR/EVR valves is a normally closed, direct or servo operated solenoid valve for liquid, suction and hot gas lines with fluorinated refrigerants. BLR/EVR valves are supplied complete or as separate components, i.e. valve body, coil and flanges.

BLR/EVR型电磁阀为直动式或伺服式电磁阀，用于氟化物制冷剂的液体管路、吸气管路和热气管路。

RW型电磁阀可提供整体供货，如果需要，也可以提供分体供货，即可以提供单独零部件，如阀体、电磁阀线圈和法兰等。

### Feature/特点

- ◆ Ambient Temp.: -40 to +80°C
  - ◆ Voltage Allowable Range: +10 to +15°C
  - ◆ Coil Waterproof Level: IP 65
  - ◆ Medium Temp.: -40 to +105°C
  - ◆ Max. Working Temp.: 3.5Mpa
  - ◆ CFC, HCFC, HFC Refrigerant
  - ◆ Complete range of solenoid valves for refrigeration, freezing and air conditioning plant
  - ◆ Wide choice of coils for A.C and D.C.
  - ◆ Suitable for all fluorinated refrigerants.
  - ◆ Extended ends for soldering make installation easy. It is not necessary to dismantle the valve when soldering in.
  - ◆ It is also available with flange connection
  - ◆ Copper connection size 1/4" through 2-1/8".
- ◆ 环境温度: -40°C ~ +80
  - ◆ 允许工作电压范围: +10 ~ +15%
  - ◆ 线圈防水级别: IP 65
  - ◆ 介质温度: -40 ~ +105°C
  - ◆ 最大工作压: 3.5Mpa
  - ◆ 适用CFC, HCFC, HFC制冷剂
  - ◆ 可用于冷藏, 冻结, 空气调节装置和各种场合
  - ◆ 多种交流和直流电磁阀线圈的宽阔选择
  - ◆ 适合于所有氟化物
  - ◆ 用于焊接连接的加长接口使安装简便, 当焊接时不需要拆除阀体
  - ◆ 可提供法兰连接电磁阀
  - ◆ 接口尺寸从1/4" ~ 2-1/8"可供选择



### Technical Data/技术参数

Model 型号		Connection 接口尺寸		H1		H2		H4		L		L2		KV Factor KV值 (m3/h)
SAE 接口	ODF 焊口	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	
BLR/EVR3-014	BLR/EVR3-014S	1/4	6	0.5	14	2.8	71	-	-	4.0	102	0.3	7	0.27
BLR/EVR3-038	BLR/EVR3-038S	3/8	10	0.5	14	2.9	73	-	-	4.6	117	0.4	10	
BLR/EVR6-038	BLR/EVR6-038S	3/8	10	0.5	14	3.1	79	-	-	4.4	111	0.4	10	
BLR/EVR6-012	BLR/EVR6-012S	1/2	12.8	0.5	14	3.1	79	-	-	5.0	127	0.4	10	0.8
BLR/EVR10-012	BLR/EVR10-012S	1/2	12.8	0.6	16	3.1	79	-	-	5.0	127	0.4	10	
BLR/EVR10-058	BLR/EVR10-058S	5/8	16	0.6	16	3.1	79	-	-	6.3	160	0.5	12	
-	BLR/EVR15-058S	5/8	16	0.7	19	3.4	86	-	-	6.9	176	0.5	12	1.9
-	BLR/EVR15-078S	7/8	22	0.7	19	3.4	86	-	-	6.9	176	0.7	17	
-	BLR/EVR20-078S	7/8	22	0.8	20	3.5	90	-	-	7.5	191	0.7	17	
-	BLR/EVR20-118S	1 1/8	28.8	0.8	20	3.5	90	-	-	8.4	214	0.8	22	5
-	BLR/EVR22-138S	1 3/8	35	0.8	20	3.5	90	-	-	11.1	281	1	25	
-	BLR/EVR25-118S	1 1/8	28.8	1.5	38	5.4	138	2.8	72	10.0	256	0.8	22	
-	BLR/EVR25-138S	1 3/8	35	1.5	38	5.4	138	2.8	72	11.0	281	1	25	10
-	BLR/EVR32-138S	1 3/8	35	1.9	47	4.4	111	2.1	53	11.0	281	1	25	
-	BLR/EVR32-158S	1 5/8	42	1.9	47	4.4	111	2.1	53	11.0	281	1.1	29	
-	BLR/EVR40-158S	1 5/8	42	1.9	47	4.4	111	2.1	53	11.0	281	1.1	29	16
-	BLR/EVR40-218S	2 1/8	54	1.9	47	4.4	111	2.1	53	11.0	281	1.3	34	

### General Description/描述

BLR/USV unloading solenoid valve can be use on the compressor of the freezer, cold store air conditioning unit. It will automatically unload in accordance with the decrease of heat load so that it could save the compressor energy and extend the service life of compressor. The valve seat is well sealed with perfect performance. Both packed and separated valve are available and it means the valve body could be supplied separately from the solenoid.

BLR/USV 卸载式电磁阀可用于冷冻、冷藏和空气调节装置的压缩机上，根据热负荷的减少情况进行自动卸载，从而使压缩机节能，并延长适用寿命。阀座与密封处具有很好的密封性。该电磁阀可提供整体供货，也可分体供货，即阀体和线圈分开单独供货。



### Feature/特点

- ◆ Supplied both normally closed (BLR/USVC) and normally open (BLR/USV) with de-energized coils.
  - ◆ Wide choices of coils for AC and DC.
  - ◆ Suitable for all fluorinated refrigerants.
  - ◆ Opening pressure diff: 0-21bar
  - ◆ Max. working pressure: 30bar
  - ◆ Temperature of medium: -25°C-105°C
  - ◆ Working life: =250000
  - ◆ UL/CUL certificate available.
- ◆ 可提供常开式BLR/USV和常闭式BLR/USVC
  - ◆ 有多种交流电压和直流电压线圈供提供
  - ◆ 适用于HCFC/HFC制冷剂和相容的润滑油
  - ◆ 工作压差: 0-21bar
  - ◆ 最高工作压力: 30bar
  - ◆ 适用工质温度: -25°C-105°C
  - ◆ 开闭循环次数: ≥250000
  - ◆ 可供UL/CUL认证

### Solenoid Valve Coil 电磁阀线圈



Model 型号	Specification 参数	Applicable Ambient Temperature 适用环境温度	Allowable Voltage Fluctuation 允许电压波动	Type 款式
BLR/EV COIL 220	AC220v 50HZ IP67	-30°C to +55°C	+10% to -15%	a
BLR/EV COIL 24DC	DC24V IP67			a
BLR/EV COIL 12	DC12V IP67			a
BLR/EV COIL 24AC	AC24V 50HZ IP67			a
BLR/EV COIL 110	AC110-120V 50HZ IP67			a
BLR/QSV 110	110V 50/60HZ	-25°C to +60°C	+10% to -16%	b
BLR/QSV 208	208/230V 50/60HZ			b
BLR/QSV 240	240V 50/60HZ			b
BLR/QSV 24	24V 50/60HZ			b
BLR/QSV 12	12V			b

### General Description/描述

BLR Membrane Solenoid Valve is an automatic control parts used in refrigeration system to control the refrigerant to pass or not pass, the valve is widely used on compressor group, central air-conditioning, cold-storage equipment and bus air-conditioning system. BLR膜片式电磁阀是制冷系统中控制制冷剂通、断和实现制冷系统自动化控制的自控元件，广泛应用于制冷压缩机组、中央空调、冷冻冷藏设备、大巴空调等管路系统中。

### Feature/特点

- ◆ Suitable for all fluorinated refrigerants.
- ◆ Wide choice of coils for A.C. and D.C.
- ◆ Complete range of solenoid valves for refrigeration, freezing and air conditioning plant.
- ◆ Extended ends for soldering make installation easy. It is not necessary to dismantle the valve when soldering in.

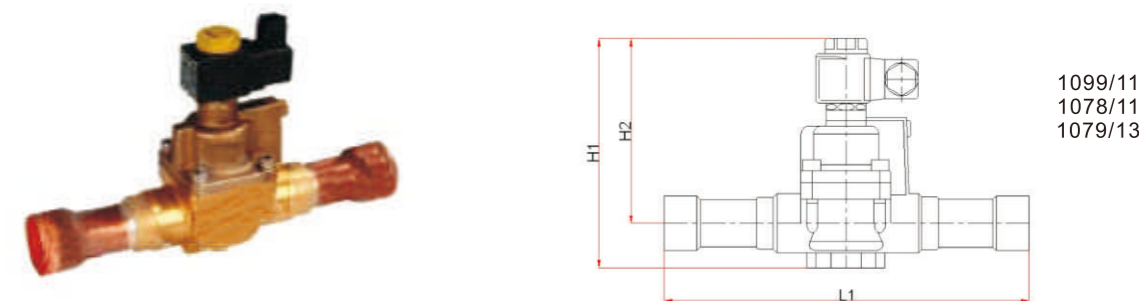
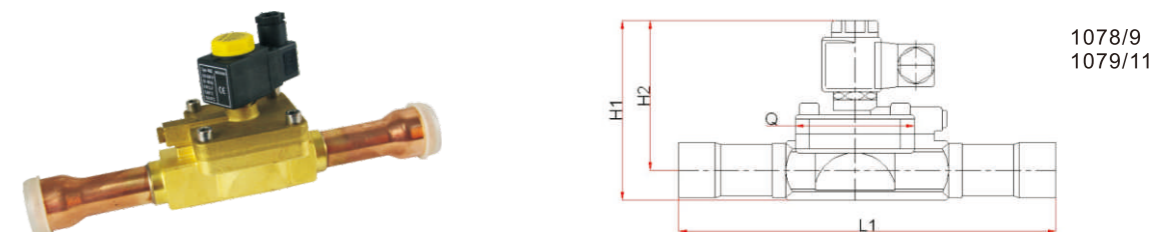
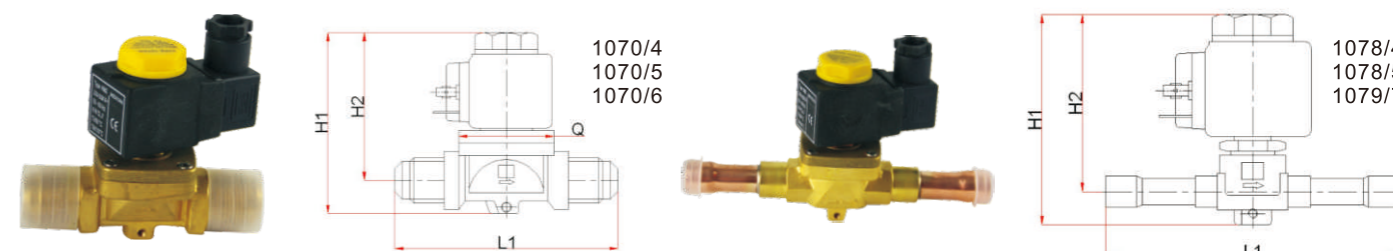
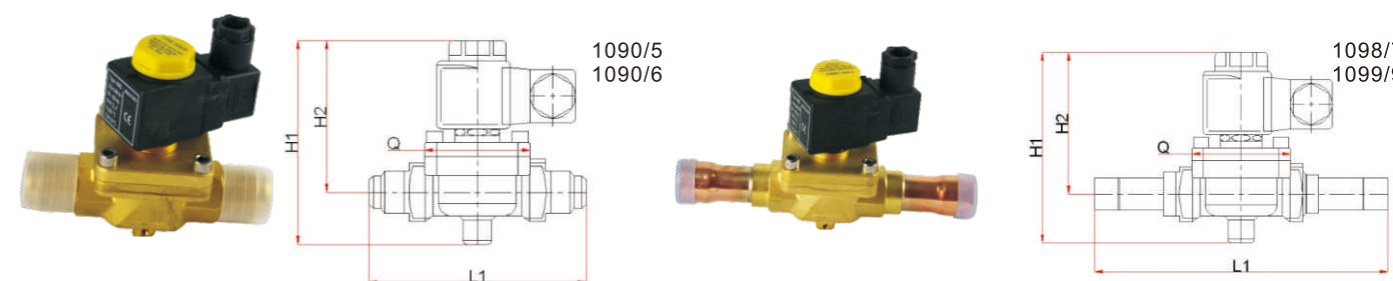
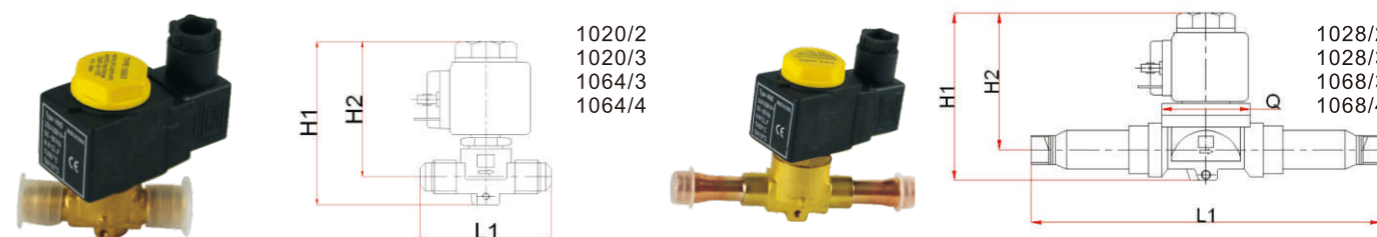
- ◆ 适用于所有的氟化物制冷剂
- ◆ 多种交流和直流电磁阀线圈的宽阔选择
- ◆ 可用于冷藏、冷冻、空气调节装置和各种场合
- ◆ 用于焊接连接的加长接口使安装简便，当焊接时不需要拆除阀体。

### Technical Data/技术参数

Refrigerant 制冷剂	CFC, HCFC, HFC
Media Temperature 介质温度	-35 to +105 °C
Service Life 使用寿命	100000 cycles (次)
Max. Opening Pressure 最大开启压力	2.5 MPa
Min. Opening Pressure 最小开启压力	0.05 MPa
Working Pressure 工作压力	3.0 Mpa

### Technical Data/技术参数

Model 型号	Connection 接口尺寸	Dimension 尺寸								KV Factor KV值 (m <sup>3</sup> /h)
		H1		H2		L1		Q		
		Inch	mm	Inch	mm	Inch	mm	Inch	mm	
BLR/MSV-1020/2	1/4"SAE	3.0	75	2.5	62.5	2.3	58	-	-	0.175
BLR/MSV-1020/3	3/8"SAE	3.0	75	2.5	62.5	2.6	65	-	-	0.23
BLR/MSV-1028/2	1/4"ODF	3.0	75	2.5	32.5	4.9	125	-	-	0.15
BLR/MSV-1028/3	3/8"ODF	3.0	75	2.5	62.5	4.9	125	-	-	0.23
BLR/MSV-1064/3	3/8"SAE	3.2	82	2.7	69.5	2.6	68	-	-	0.8
BLR/MSV-1064/4	1/2"SAE	3.2	82	2.7	69.5	2.8	72	-	-	0.8
BLR/MSV-1068/3	3/8"ODF	3.2	82	2.7	69.5	4.5	111	-	-	0.8
BLR/MSV-1068/4	1/2"ODF	3.2	82	2.7	69.5	5.0	127	-	-	0.8
BLR/MSV-1070/4	1/2"SAE	3.6	91	3.0	75.0	3.9	100	1.8	45	2.2
BLR/MSV-1070/5	5/8"SAE	3.6	91	3.0	75.0	4.2	106	1.8	45	2.61
BLR/MSV-1078/4	1/2"ODF	3.6	91	3.0	75.0	5.0	127	1.8	45	2.2
BLR/MSV-1078/5	5/8"ODF	3.6	91	3.0	75.0	6.9	173	1.8	45	2.61
BLR/MSV-1078/9	1 1/8"ODF	4.5	115	3.8	96.0	9.8	250	3.1	80	10
BLR/MSV-1078/11	1 3/8"ODF	6.8	172	5.4	138.0	10.9	278	2.8	68	16
BLR/MSV-1090/5	5/8"SAE	4.2	106	3.0	78.0	1.7	120	2.2	57	3.8
BLR/MSV-1090/6	3/4"SAE	4.2	106	3.0	78.0	4.9	124	2.2	57	4.8
BLR/MSV-1079/7	7/8"ODF	3.6	91	3.0	75.0	7.5	190	1.8	45	2.61
BLR/MSV-1079/11	1 3/8"ODF	4.5	115	3.8	96.0	11.5	292	3.1	80	10
BLR/MSV-1079/13	1 5/8"ODF	6.8	172	5.4	138.0	10.9	278	2.8	68	16
BLR/MSV-1098/7	7/8"ODF	4.2	106	3.0	78.0	7.1	180	2.2	57	5.7
BLR/MSV-1099/9	1 1/8"ODF	4.2	106	3.0	78.0	8.5	216	2.2	57	5.7
BLR/MSV-1099/11	1 3/8"ODF	6.2	157	5.0	127.0	10.9	291	2.8	68	10





### General Description/描述

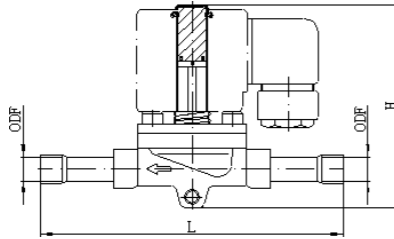
BLR/MG Series Solenoid Valve is specially designed for R410A system, they are used for liquid, suction or discharge gas refrigerant service.

BLR/MG 系列电磁阀是专门为R410A制冷剂开发的新型电磁阀，用于液管路、吸气管路和热蒸汽管路，也可用于其他氟化物。

### Feature/特点

- ◆ BLR/MG is servo pilot operated solenoid valve for liquid, suction and hot gas application
- ◆ Full range of solenoid valves for refrigeration and air conditioning application
- ◆ Wide choice of coils for AC and DC
- ◆ Suitable for R410A refrigerants, HFC&HCFC
- ◆ Opening Pressure Dif:
  - AC: 0.05-30bar
  - DC: 0.05-24bar
- ◆ Max working pressure: 45bar
- ◆ Temperature of Medium: -40°C to +105°C
- ◆ Environmental Temperature: -40°C to +55°C

- ◆ BLR/MG 型电磁阀是伺服式电磁阀，用于氟化物制冷剂的液管路、吸气管路和热蒸汽管路。
- ◆ 电磁阀适用于冷藏、冷冻、空调装置。
- ◆ 有多种交流电压AC和直流电压DC线圈供选择
- ◆ 适用于R410A及其它HCFC、HFC制冷剂（R717除外）和相容的润滑油
- ◆ 工作压差范围：
  - 交流：0.05-30bar
  - 直流：0.05-24bar
- ◆ 最高工作压力：45bar
- ◆ 适用工质温度：-40°C to +105°C
- ◆ 使用环境温度：-40°C to +55°C



### Technical Data/技术参数

Model 型号	Connection Size 接管尺寸(ODF)		Opening diff pressure(bar) 阀开启压差		Kv Value Kv值 m <sup>3</sup> /h	Max working pressure 最大安全工作 压力(bar)	Dimensions(mm) 外形尺寸			Rated power 电源种类		
	mm	in	Min 最小	Max(liquid) 最大(水)			L	W	H	AC	DC	
				50/60Hz AC 交流电压								DC 直流电压
BLR/FDF-3G	6	1/4	0	28	24	45	117	31	76	24 36 110 220	12 24 110 220	
	10	3/8										
BLR/FDF-6MG	10	3/8										
	12	1/2										
BLR/FDF-8MG	16	3/8										
	10	1/2										
	12	5/8										
	16	1/2										
BLR/FDF-10MG	12	5/8										
	16	5/8										
BLR/FDF-15MG	19	3/4										
	22	7/8										
BLR/FDF-20MG	22	7/8										
	28	1 1/8										
BLR/FDF-25MG	28	1 1/8										
	28	1 1/8										
BLR/FDF-32MG	28	1 1/8										
	35	1 3/8										
BLR/FDF-40MG	35	1 3/8										
	54	2 1/8										

### General Description/描述

BLR/FDF series solenoid valves are divided into direct-acting and pilot-operated types, which are mainly used in refrigeration, air conditioners, heat pumps and other systems.

BLR/FDF系列电磁阀分为直动式和先导式，主要用于冷冻冷藏，空调机和热泵等系统的冷媒控制。

### Feature/特点

- ◆ Coil: low power consumption and good reliability.  
线圈: 功耗低、可靠性好。
- ◆ Wonderful opening performance, large maximum working pressure difference  
开启性能好，最大工作压差大
- ◆ General specifications  
通用规格

### Feature/特点

- ◆ Applicable refrigerant: R22, R134a, R407C, R404A, R410A, etc.  
适用制冷剂: R22, R134a, R407C, R404A, R410A等
- ◆ Medium Temp.: -30°C~ +120°C  
介质温度: -30°C~ +120°C
- ◆ Ambient Temp.: -30°C~ +50°C  
环境温度: -30°C~ +50°C
- ◆ Relative humidity: below 95%  
相对湿度: 95%以下
- ◆ Installation location: liquid pipe, suction and exhaust port  
安装位置: 液管, 吸排气口
- ◆ The coil is facing upwards, the coil is vertical to the valve body, and the verticality is within 15° deviation of soil  
线圈朝上, 线圈垂直阀体, 垂直度在±15°偏差内
- ◆ The flow direction is the direction of the arrow  
流向为箭头方向



Product model 产品型号	Action mode 动作方式	Diameter 口径	Kv	Max.pressure 最大工作压力	Maximum diff pressure 最大压力工作差	Minimum diff pressure 最小压力工作差
		[mm]		[Mpa]	[Mpa]	[Mpa]
BLR/FDF 2	Directacting 直动式	1.9	0.07	4.2	3.4	0
BLR/FDF 3		2.7	0.26	4.2	3.4	0.01
BLR/FDF 4		4	0.30	4.2	3.0	0.01
BLR/FDF 6	Pilot-driven 先导式	5.8	0.56	4.2	3.0	0.01
BLR/FDF 8		8	0.94	4.2	3.0	0.01
BLR/FDF 11		11	2.40	4.2	2.8	0.02
BLR/FDF 13		13	3.43	4.2	2.8	0.02

### Technical Data for coil 线圈技术参数

Product model 产品型号	Action mode 动作方式	Diameter 口径	Kv	Max.pressure 最大工作压力	Maximum diff pressure 最大压力工作差	Minimum diff pressure 最小压力工作差	Take over outer diameter 接管外径	Dimensions mm 外形尺寸		
		[mm]		[Mpa]	[Mpa]	[Mpa]		[inch]	L	L1
BLR/FDF 2	Directacting 直动式	1.9	0.07	4.2	3.4	0	1/4	66	32	34
BLR/FDF 3		2.7	0.26	4.2	3.4	0.01	5/16	81	34.5	35.6
BLR/FDF 4		4	0.30	4.2	3.0	0.01	1/4	82	35	38
BLR/FDF 6	Pilot-driven 先导式	5.8	0.56	4.2	3.0	0.01	5/16	81	34.5	35.6
BLR/FDF 8		8	0.94	4.2	3.0	0.01	3/8	120	70	72
BLR/FDF 11		11	2.40	4.2	2.8	0.02	1/2	114	61	61
BLR/FDF 13		13	3.43	4.2	2.8	0.02	5/8	114	61	61

**Description/描述**

BLR/FRV Series Four-Way Reversing Valves are specially designed for Heat Pump Systems, like Commercial and Industrial Air Conditioning System, Swimming Pool System. The 4-way Reversing Valve is the key component to provide Heating and Cooling from the system to the air conditioned space by reversing the flow direction of refrigerant. It is widely used at room air conditioners, packaged and central air conditioners. The reversing Valves are designed for Heat Pump Systems with capacity from 3kW to 580kW. They are suitable for most refrigerants as R407C - R410A - R134A.

BLR/FRV系列四通换向阀是专门为热泵系统设计的，比如商业及工业空调系统，游泳池系统等。BLR/FRV系列四通换向阀是空调制冷与制热系统中改变制冷剂流动方向的核心组件。它广泛地应用于家用空调，包装间和中央空调里。BLR/FRV系列四通换向阀被设计用于热泵系统，制冷量可达3kW to 580kW。并可以使用于大部分制冷剂，比如R407C - R410A - R134A。

**Feature/特点**

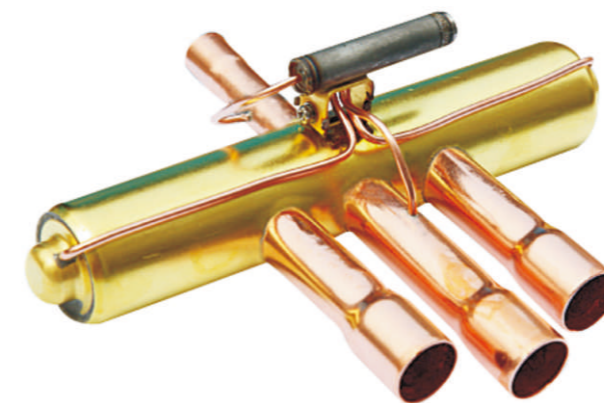
- ◆Capacity Range: 3 US Ton to 240 US Ton (Based On R22 Nonical Capacity)
- ◆Advantage: Wide Application Range;Low Leakage Risk;Minimum Pressure Drop;High Reliability; Energy Saving;
- ◆Application Refrigerant: R22,R407C,R410A,R134A etc.
- ◆Fluid Application Temperature: -25℃~120℃
- ◆Application Ambient Temperature: -25℃~50℃
- ◆Relative Humidity: 95% RH
- ◆Service Life: 20000 times
- ◆Max Using Pressure: 4.17 Mpa (Pressure Gauge Pressure)
- ◆Bellow Test Pressure: 3.0 Mpa (Air)
- ◆Temperature Endurance: 120℃
- ◆Coil Insulated Resistant: >1000MΩ
- ◆Coil Temperature increase : <70K
- ◆Coil Max Using Temperature: +130℃

- ◆制冷量范围：3美吨到240美吨（基于R22标准制冷量）
- ◆优点：应用范围广；泄露风险低；压力值小；可靠性高；节约能源；
- ◆适用的制冷剂：R22,R407C,R410A,R134A等
- ◆流体应用温度：-25℃~120℃
- ◆应用环境温度：-25℃~50℃
- ◆相对湿度：95% RH
- ◆适用寿命：20000次
- ◆最大适用压力：4.17 Mpa（压力表压力）
- ◆气密性测试：3.0 Mpa
- ◆耐温范围：120℃
- ◆线圈绝缘电阻：大于1000MΩ
- ◆线圈温升：小于70K
- ◆线圈允许最高温度：+130℃

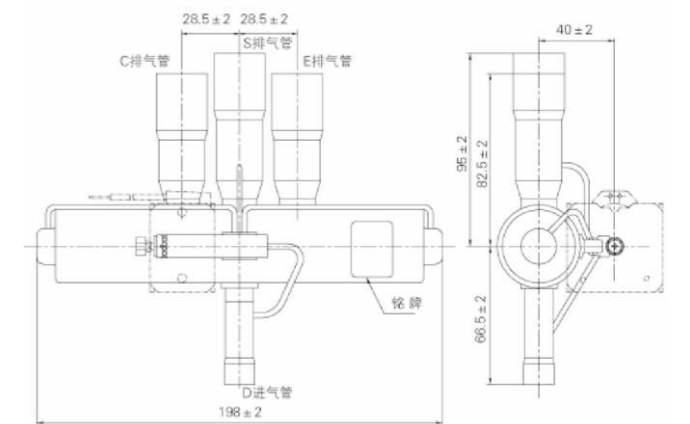
**Technical Data/技术参数**

Model 型号	R22 Nonical Capacity R22 名义 制冷量 (us ton)	Connection Size 接口尺寸				Port Size 口径 mm	Suitable Capacity Range(kw) 适用制冷量								Internal Leakage 内部泄漏 (ml/min) Max	Reversing Pressure 换向压力差 (Mpa)		
		CES Outlet 排气管 C.S.E.		D Inlet 进气管 D			R22		R410A		R407C		R134A			Min	Max	
		Inch	mm	Inch	mm		Min	Max	Min	Max	Min	Max	Min	Max				
BLR/FRV-005C	6	7/8"	22.3	1/2"	12.7	16	3.5	19.7	4.6	23.9	3.9	19	3.2	14.8	4000	0.5	3.1	
BLR/FRV-005K		3/4"	19.1	1/2"	12.7		3.5	19.7	4.6	24	3.9	19	3.2	14.8				
BLR/FRV-010B	10	7/8"	22.2	5/8"	15.9	10	11	39.4	13	41.9	11.3	33.1	9.9	29.5	6000	0.15	3.1	
BLR/FRV-010C		7/8"	22.2	3/4"	19.1		10.6	39.4	13	42	11	33	9.9	29.5				
BLR/FRV-010E		1/ 1/8"	28.6	5/8"	15.9		10.6	39.4	13	47.5	11.3	37.6	9.9	29.5				
BLR/FRV-010F		1/ 1/8"	28.6	3/4"	19.1		11	39.4	13	48	11	38	9.9	29.5				
BLR/FRV-010S		1/ 1/8"	28.6	7/8"	22.2		11	39.4	13	47.5	11	38	9.9	29.5				
BLR/FRV-015A	15	1/ 3/8"	34.9	1	25.4	25	21.1	49.2	26.4	58.9	22.9	46.8	19	36.9	15000	0.25	2.5	
BLR/FRV-015B		1/ 1/8"	28.6	7/8"	22.2		15.8	52.8	15.8	61.6	15.8	54.5	12.3	40.8				
BLR/FRV-020A	20	1/ 1/4"	31.8	1	25.4	26	17.6	70.4	17.6	82	17.6	72.5	13.7	54.2	10L	0.25	2.5	
BLR/FRV-020B		1/ 1/4"	31.8	1	25.4		17.6	70.4	/	/	17.6	72.5	13.7	54.2				
BLR/FRV-020C		1/ 3/8"	34.9	1/ 1/8"	28.6		17.6	70.4	/	/	17.6	72.5	13.7	54.2				
BLR/FRV-030A	30	1/ 1/2"	38.1	1/ 1/4"	31.8	35	26.4	106	26.4	123	26.4	109	20.4	81.2	10L	0.25	2.5	
BLR/FRV040A		1/ 3/4"	44,45	1/ 1/2"	38.1		41	35.2	141	35.2	164	35.2	145	27.1				108
BLR/FRV-040B	40	1/ 3/4"	44,45	1/ 1/2"	38.1	41	35.2	141	/	/	35.2	145	27.1	108	15L	0.25	2.5	
BLR/FRV-050A		2/ 1/8"	54	1/ 1/2"	38.1		46	35.2	176	35.2	205	35.2	181	27.1				135
BLR/FRV-050B		2/ 1/8"	54	1/ 1/2"	38.1		46	35.2	176	/	/	35.2	181	27.1				135
BLR/FRV-060A	60	2/ 5/8"	66.7	1/ 5/8"	41.3	50	42.2	211	50.6	253	52.8	217	32.4	162	20L	0.25	2.5	
BLR/FRV-060B		2/ 5/8"	66.7	1/ 5/8"	41.3		50	42.2	211	/	/	52.8	217	32.4				
BLR/FRV-080A	80	3/ 1/8"	79.4	2/ 5/8"	66.7	41	70.4	282	/	/	70.4	282	70.4	225	30L	0.34	2.25	
BLR/FRV-080B		3/ 1/8"	79.4	1/ 5/8"	54		41	70.4	282	/	/	70	282	70.4				
BLR/FRV-120A	120	3/ 1/8"	79.4	2/ 5/8"	66.7	41	106	423	/	/	106	423	106	338	45L	0.34	2.25	
BLR/FRV-120B		3/ 1/8"	79.4	3/ 1/8"	79.4		41	106	423	/	/	106	423	106				
BLR/FRV-160A	160	3/ 1/8"	79.4	3/ 1/8"	79.4	41	141	563	/	/	141	563	141	450	60L	0.34	2.25	
BLR/FRV-160B		3/ 1/8"	79.4	2/ 5/8"	66.7		41	141	563	/	/	141	563	141				
BLR/FRV-200A	200	4/ 3/5"	118	3/ 1/8"	79.4	46	176	703	/	/	176	703	/	/	80L	0.34	2.25	

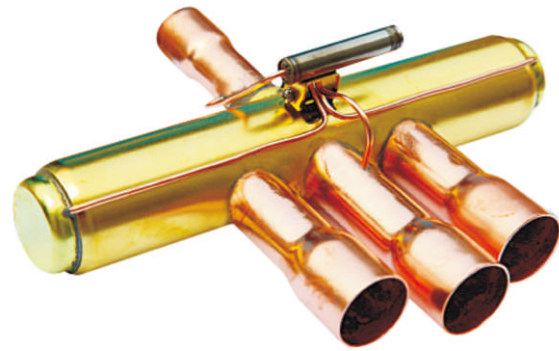
**Technical Drawings/技术图纸**



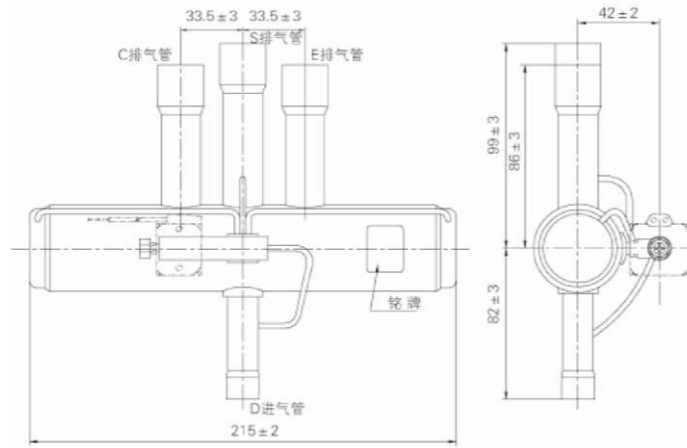
BLR/FRV-005



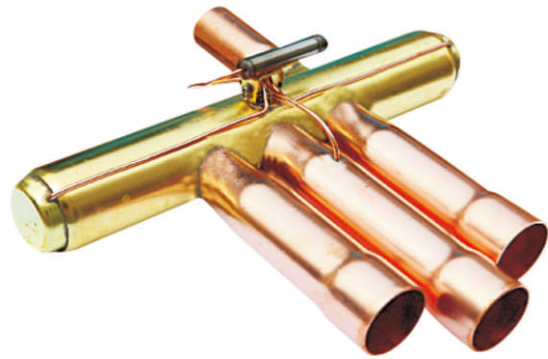
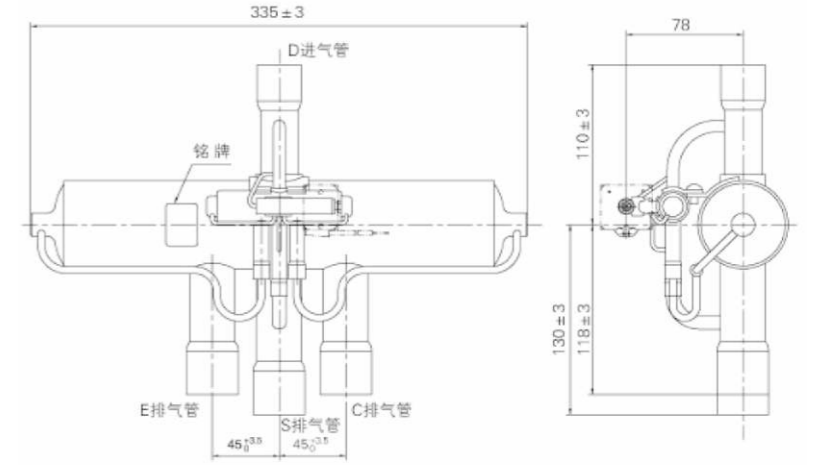




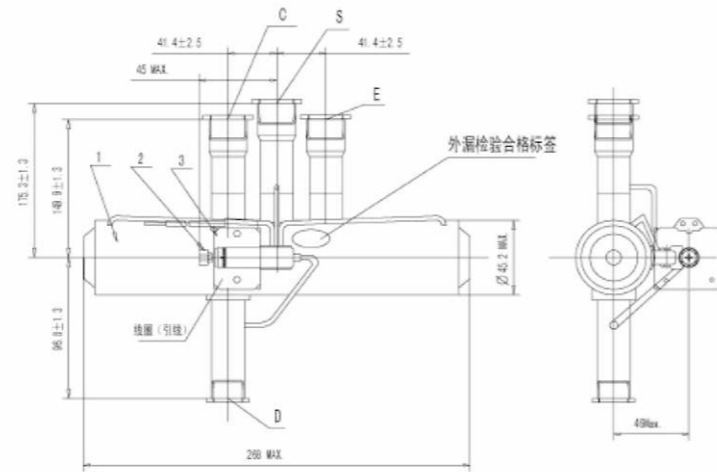
BLR/FRV-010



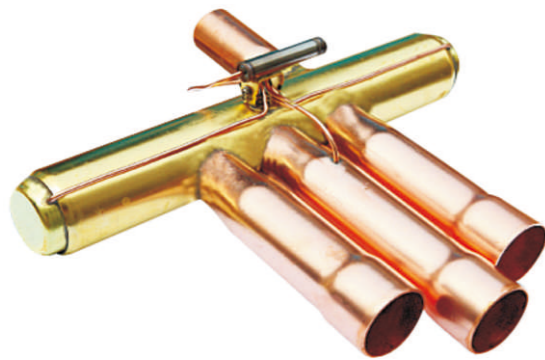
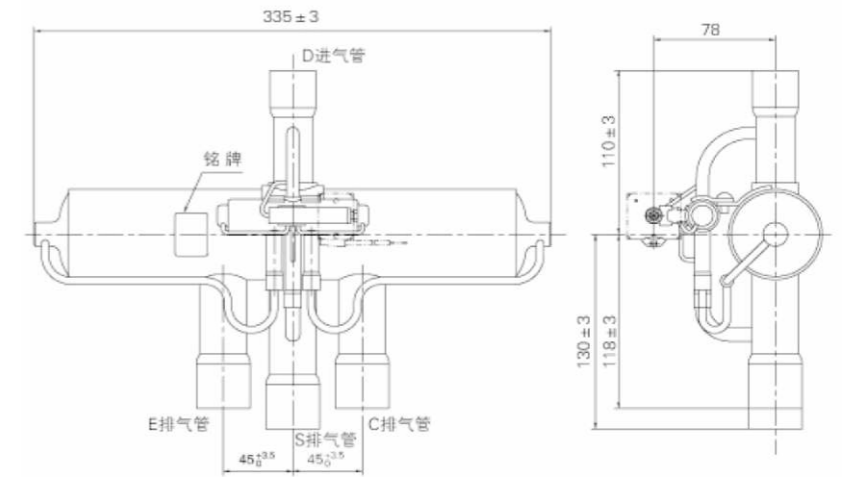
BLR/FRV-020



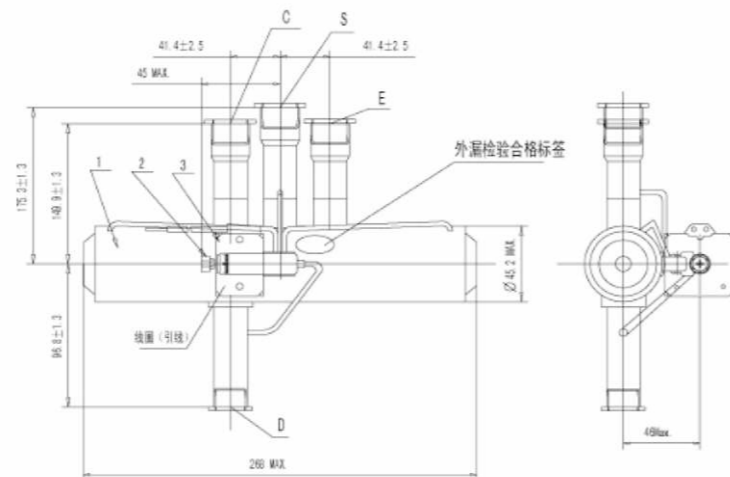
BLR/FRV-015A



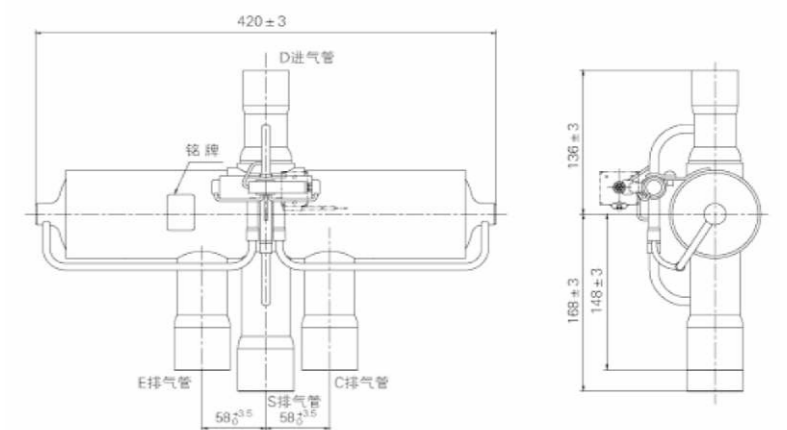
BLR/FRV-030A



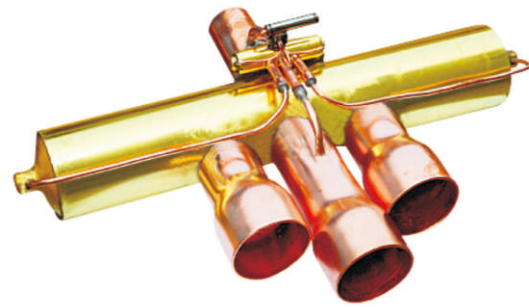
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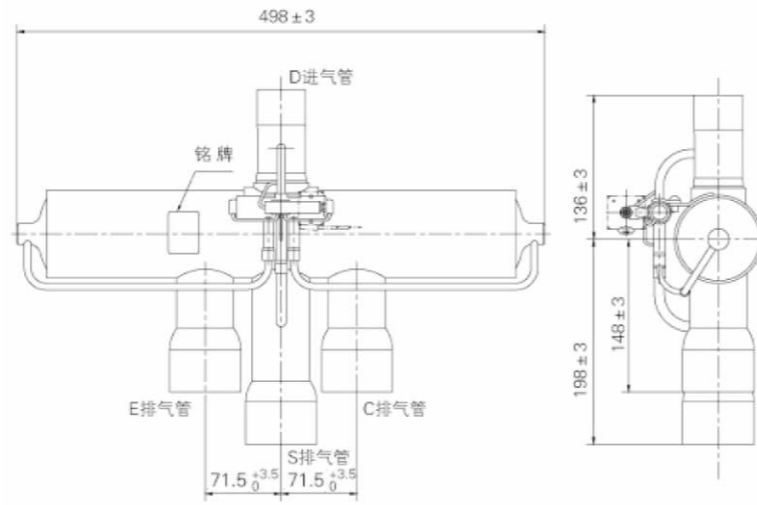
BLR/FRV-040



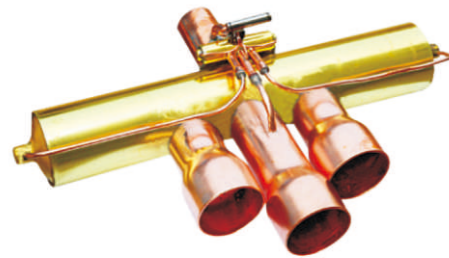
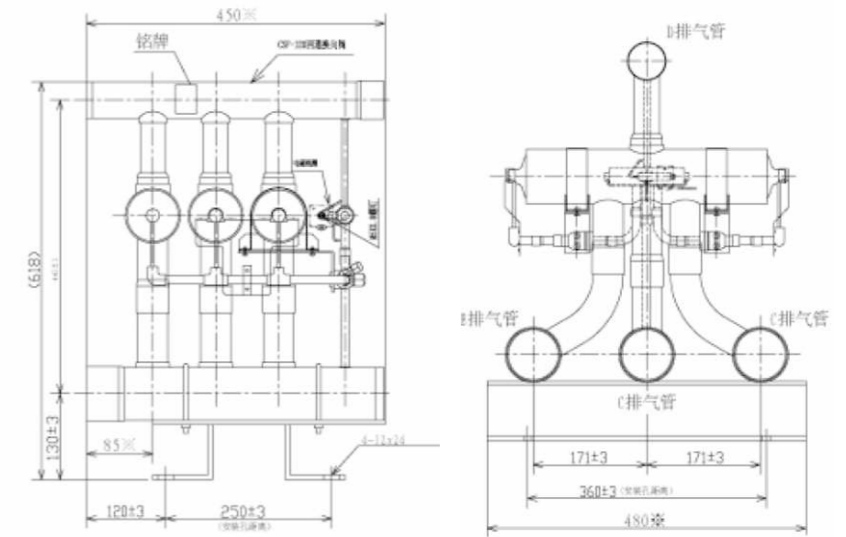




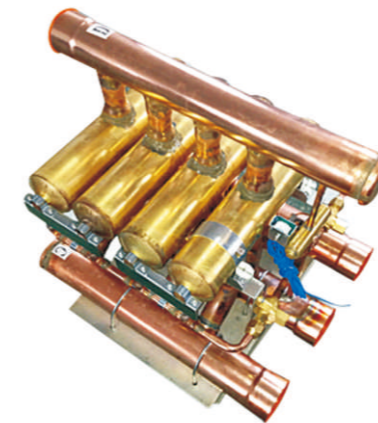
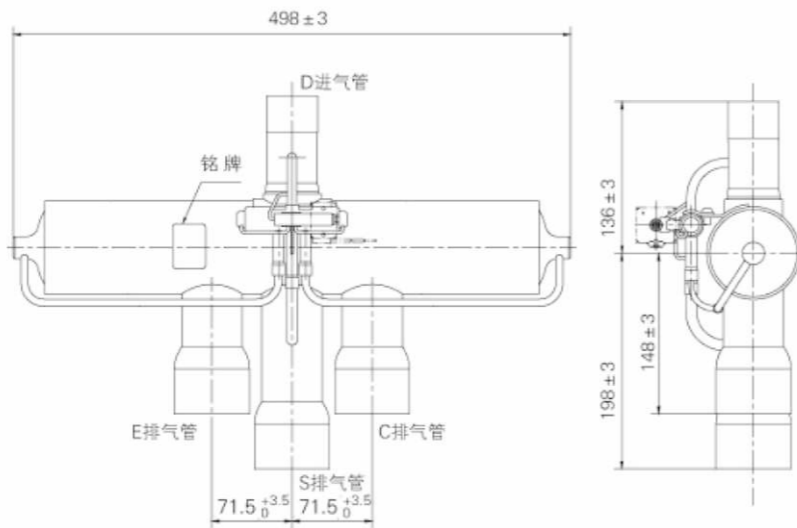
BLR/FRV-050



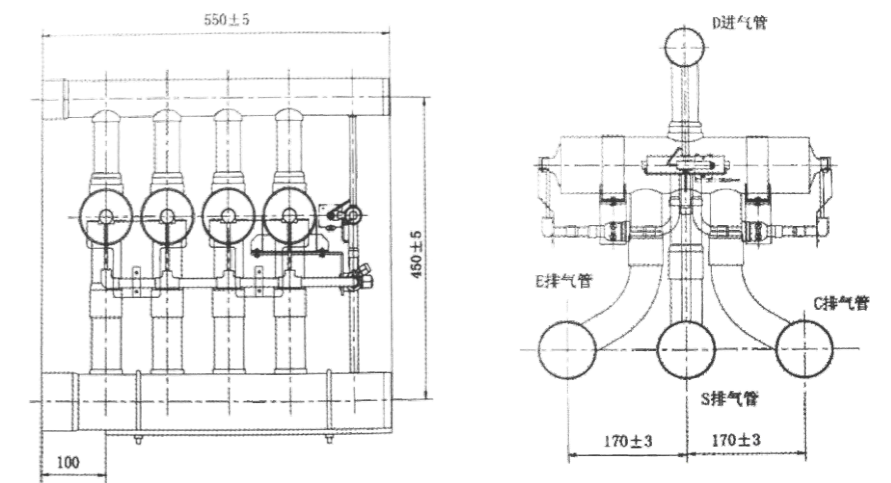
BLR/FRV-120



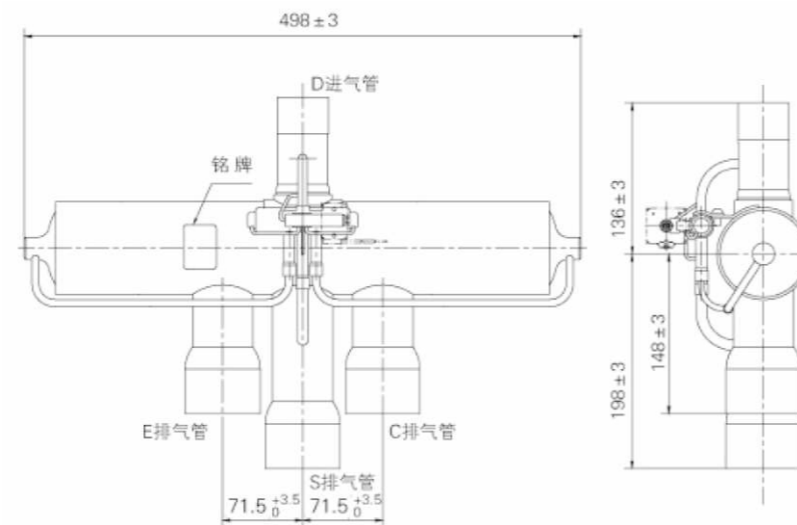
BLR/FRV-060



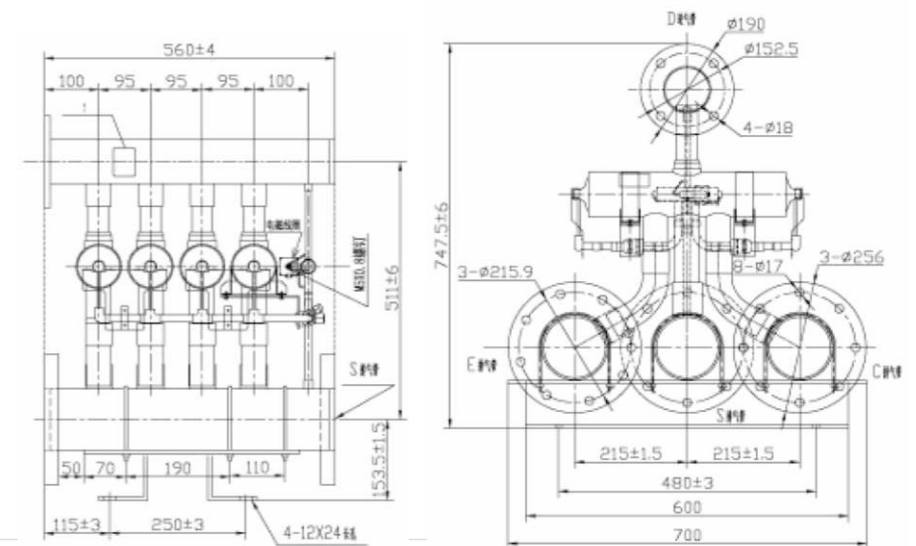
BLR/FRV-160



BLR/FRV-080



BLR/FRV-200



### Product Introduction

BLR/KVL crankcase pressure regulator is installed in the suction line ahead of compressor in the refrigeration systems.

BLR/KVL crankcase pressure regulator is used to protect the compressor motor against overload during startup after long off periods or just after defrost periods.

### Features

- ◆ Accurate, adjustable pressure regulation
- ◆ Wide capacity and operating ranges
- ◆ Pulsation damping design
- ◆ Stainless steel bellows
- ◆ "Hermetic" brazed construction
- ◆ Available in a wide size range of flare and ODF solder types
- ◆ For CFC, HCFC or HFC
- ◆ Compact angle design for easy installation in any position

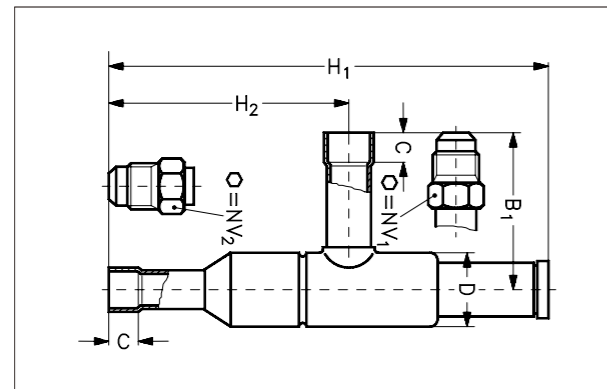
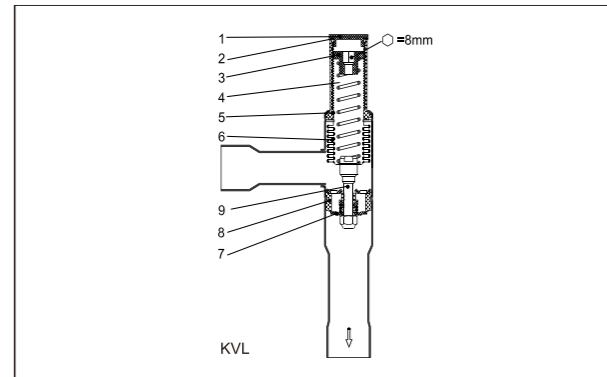
### Technical Parameters

Refrigerants	CFC ,HCFC , HFC
Regulating Range	0.2-6 bar factory setting=2 bar
Max. Working Pressure	PS/MWP= 18 bar
Max. Test Pressure	Pe= 19.8 bar
Medium Temperature Range	-60—130 °C
Maximum P-band	BLR/KVL 12-22 : 2 bar BLR/KVL 28-35 : 1.5 bar

The KV value is the flow of water in m<sup>3</sup> /h at a pressure drop across valve of 1 bar, p=1000kg/m<sup>3</sup>

### Design Function

1. Protective cap
2. Gasket
3. Setting screw
4. Main spring
5. Valve body
6. Equalization bellows
7. Valve plate
8. Valve seat
9. Damping device



### Dimensions

Model	Nominal refrigerating capacity (kw)				SAE		ODF		Dimensions				
	R22	R134a	R404A/R507	R407C	[in]	[mm]	[in]	[mm]	H <sub>1</sub> , mm	H <sub>2</sub> , mm	B <sub>1</sub> , mm	C solder mm	∅D mm
BLR/KVL-12	7.1	5.3	6.3	6.4	1/2	12	1/2	12	179	99	64	10	30
BLR/KVL-15	7.1	5.3	6.3	6.5	5/8	16	5/8	16	179	99	64	12	30
BLR/KVL-22	7.1	5.3	6.3	6.5	—	—	7/8	22	179	99	64	17	30
BLR/KVL-28	17.8	13.2	15.9	16.4	—	—	11/8	28	259	151	105	20	43
BLR/KVL-35	17.8	13.2	15.9	16.4	—	—	13/8	35	259	151	105	25	43

Nominal Refrigerating Capacity is based on: evaporating temperature te=-10°C condensing temperature tc=+25°C Pressure drop in regulator=0.2 bar

### Product Introduction

Regulating system BLR/KVR and BLR/NRD is used to maintain a constant and sufficiently high condenser and receiver pressure in refrigeration and air conditioning plant with air-cooled condensers.

BLR/KVR can also be used together with receiver pressure regulator, type BLR/KVD.

### Features

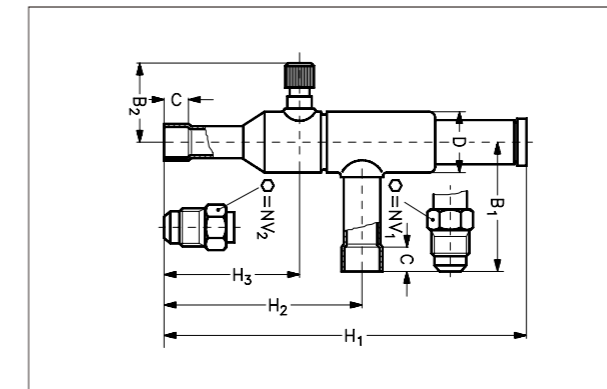
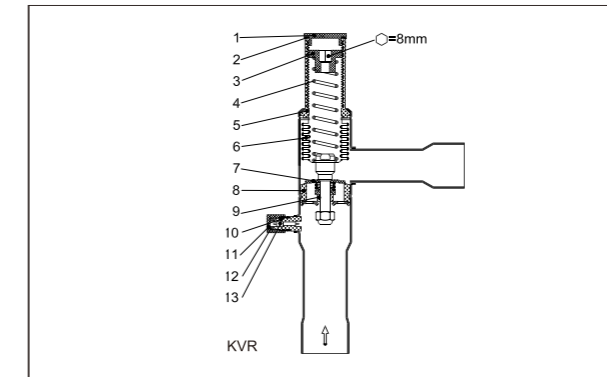
- ◆ Accurate, adjustable pressure regulation
- ◆ Wide capacity and operating range
- ◆ Pulsation damping design
- ◆ Stainless steel bellows
- ◆ Compact angle design for easy installation in any position
- ◆ "Hermetic" brazed construction
- ◆ 1/4 in. Schrader valve for pressure testing
- ◆ Available with flare and ODF solderconnections
- ◆ For use with CFC, HCFC and HFC refrigerants

### Technical Parameters

Refrigerants	CFC ; HCFC , HFC
Regulation Range	5-17.5 bar factory setting=10 bar
Max. Working Pressure	KVR : PS/MWP=28 bar NRD : PS/MWP=46 bar
Max. Testing Pressure	BLR/KVR : Pe=31 bar BLR/NRD : Pe=60 bar
Medium Temperature Range	-45—130°C
P-band	BLR/KVR12—BLR/KVR22=6.2 bar BLR/KVR28—BLR/KVR35=5 bar

### Design Function

1. Seal cap
2. Gasket
3. Setting screw
4. Main spring
5. Valve body
6. Equalizing bellows
7. Valve plate
8. Valve seat
9. Damping device
10. Manometer connection
11. Cap .
12. Gasket
13. Insert



### Dimensions

Model	Connection				Dimensions						
	Flare		solder ODF		H1	H2	H3	B1	B2	C Solder	∅D
	in.	mm	in.	mm							
BLR/KVR 12	1/2	12	1/2	12	179	99	66	64	41	10	30
BLR/KVR 15	5/8	16	5/8	16	179	99	66	64	41	12	30
BLR/KVR 22	—	—	7/8	22	179	99	66	64	41	17	30
BLR/KVR 28	—	—	11/8	28	259	151	103	105	48	20	43
BLR/KVR 35	—	—	13/8	35	259	151	103	105	48	25	43



### Product Introduction

BLR/KVP is mounted in the suction line after the evaporator and is used to:

1. Maintain a constant evaporating pressure and thereby a constant surface temperature on the evaporator.
2. Protect against an evaporating pressure that is too low (e.g. as protection against freezing in a water chiller).
3. Differentiate between the evaporating pressures in two or more evaporators in systems with one compressor.

### Features

- ◆ Accurate, adjustable pressure regulation
- ◆ Wide capacity and operating range
- ◆ Pulsation damping design
- ◆ Stainless steel bellows
- ◆ Compact angle design for easy installation in any position
- ◆ "Hermetic" brazed construction
- ◆ 1/4 in. Schrader valve for pressure testing
- ◆ Available with flare and ODF solder connections
- ◆ For use with CFC, HCFC and HFC refrigerants

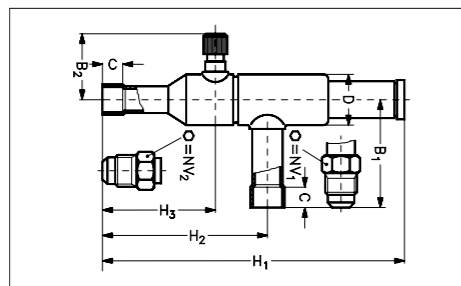
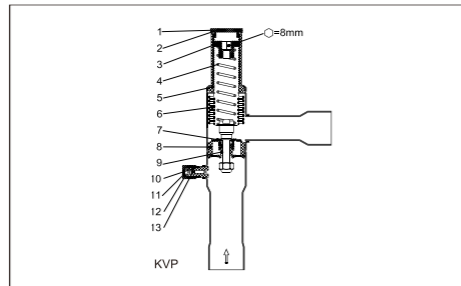
### Technical Parameters

Refrigerants	CFC , HCFC , HFC
Regulation Range	0-5.5 bar factory setting=2 bar
Max. Working Pressure	PS/MWP= 18 bar
Max. Testing Pressure	Pe= PSX1.1=19.8 bar
Medium Temperature Range	-45—130 °C
Maximum P-band	BLR/KVP 12-22 : 1.7 bar BLR/KVP 28-35 : 2.8 bar
KV-value With Offset 0.6 bar	BLR/KVP 12-22 : 1.7 m3/h BLR/KVP 28-35 : 2.8 m3/h
KV-value With Maximum P-band	BLR/KVP 12-22 : 2.5 m3/h BLR/KVP 28-35 : 8.0 m3/h

The KV value is the flow of water in m<sup>3</sup> /h at a pressure drop across valve of 1 bar, p=1000kg/m<sup>3</sup>

### Design Function

1. Protective cap
2. Gasket
3. Setting screw
4. Main spring
5. Valve body
6. Equalization bellows
7. Valve plate
8. Valve seat
9. Damping device
10. Pressure gauge connection
11. Cap
12. Gasket
13. Insert



### Dimensions

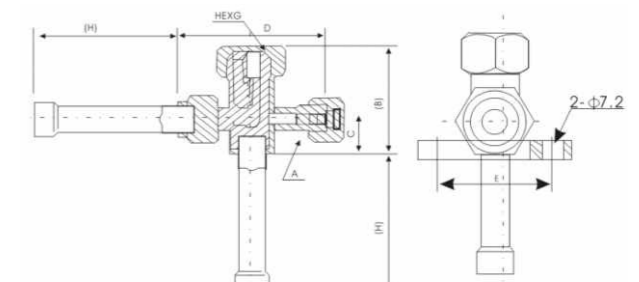
Model	Nominal refrigerating capacity (kw)				Flare		Solder		Dimensions								
	R22	R134a	R404A/R507	R407C	[in]	[mm]	[in]	[mm]	NV1	NV2	H1	H2	H3	B1	B2	C	D
BLR/KVP 12	4.0	2.8	3.6	3.7	1/2	12	1/2	12	19	19	179	99	66	64	41	10	30
BLR/KVP 15	4.0	2.8	3.6	3.7	5/8	16	5/8	16	24	24	179	99	66	64	41	12	30
BLR/KVP 22	4.0	2.8	3.6	3.7	—	—	7/8	22	24	24	179	99	66	64	41	17	30
BLR/KVP 28	8.6	6.1	7.7	7.9	—	—	11/8	28	24	24	259	151	103	105	48	20	43
BLR/KVP 35	8.6	6.1	7.7	7.9	—	—	13/8	35	—	—	259	151	103	105	48	25	43

Nominal Refrigerating Capacity is based on: evaporating temperature te=-10°C condensing temperature tc=+25°C Pressure drop in regulator=0.2 bar

### Model Description/命名规则



Part Number 零件号	Connect Diameter 连接直径 (inch)	Diameter(mm) 直径	Dimension(mm) 外形尺寸						
			A	B	C	D	E	(HEXG)	H
BLR/2ACV-1/4-S	φ 6.35 (1/4)	φ 5.0	7/16 × 20UNF	38	15	24	38	4	60
BLR/2ACV-3/8-S	φ 9.52 (3/8)	φ 5.0	5/8 × 18UNF	41	16	26	38	4	60
BLR/3ACV-1/4-S	φ 6.35 (1/4)	φ 5.0	7/16 × 20UNF	38	15	49	38	4	60
BLR/3ACV-3/8-S	φ 9.52 (3/8)	φ 7.0	5/8 × 18UNF	41	19	54	38	4	60
BLR/3ACV-1/2-S	φ 12.7 (1/2)	(φ10.0)	3/4 × 16UNF	43	17	58	38	4	60
BLR/3ACV-5/8-S	φ15.88 (5/8)	φ12(φ10.5)	7/8 × 14UNF	51	18	65	38	5	60
BLR/3ACV-3/4-S	φ19.05 (3/4)	φ13(φ 16)	1 1/8 × 14UNF	62	23.5	73	44	5	60



Part Number 零件号	Connect Diameter 连接直径 (inch)	Diameter(mm) 直径	Dimension(mm) 外形尺寸						
			A	B	C	D	E	(HEXG)	H×H
BLR/2ACV-1/4-A	φ 6.35 (1/4)	φ 5.0	7/16 × 20UNF	38	15	24	38	4	60×60
BLR/2ACV-3/8-A	φ 9.52 (3/8)	φ 5.0	5/8 × 18UNF	41	16	26	38	4	60×60
BLR/3ACV-1/4-A	φ 6.35 (1/4)	φ 5.0	7/16 × 20UNF	38	15	49	38	4	60×60
BLR/3ACV-3/8-A	φ 9.52 (3/8)	φ 7.0	5/8 × 18UNF	41	19	54	38	4	60×60
BLR/3ACV-1/2-A	φ 12.7 (1/2)	(φ10.0)	3/4 × 16UNF	43	17	58	38	4	60×60
BLR/3ACV-5/8-A	φ15.88 (5/8)	φ12(φ10.5)	7/8 × 14UNF	51	18	65	38	5	60×60
BLR/3ACV-3/4-A	φ19.05 (3/4)	φ13(φ 16)	1 1/8 × 14UNF	62	23.5	73	44	5	60×60

Other Design are also available  
其他款式的也可以提供



### General Description

- ◆ The function of Oil Regulator Shut-off valves is to provide a means for equipment isolation.
- ◆ Horizontal and vertical models are available. Two mounting options-horizontal and vertical.
- ◆ 360° positioning via Swivel connection.
- ◆ Allowable operating pressure = 0 to 34.5 barg
- ◆ Allowable operating temperature = -10 °C to +100 °C
- ◆ The main body and swivel nut are made from brass.
- ◆ The stem is made from plated steel.
- ◆ The stem seal cap is made from moulded plastic

### 描述

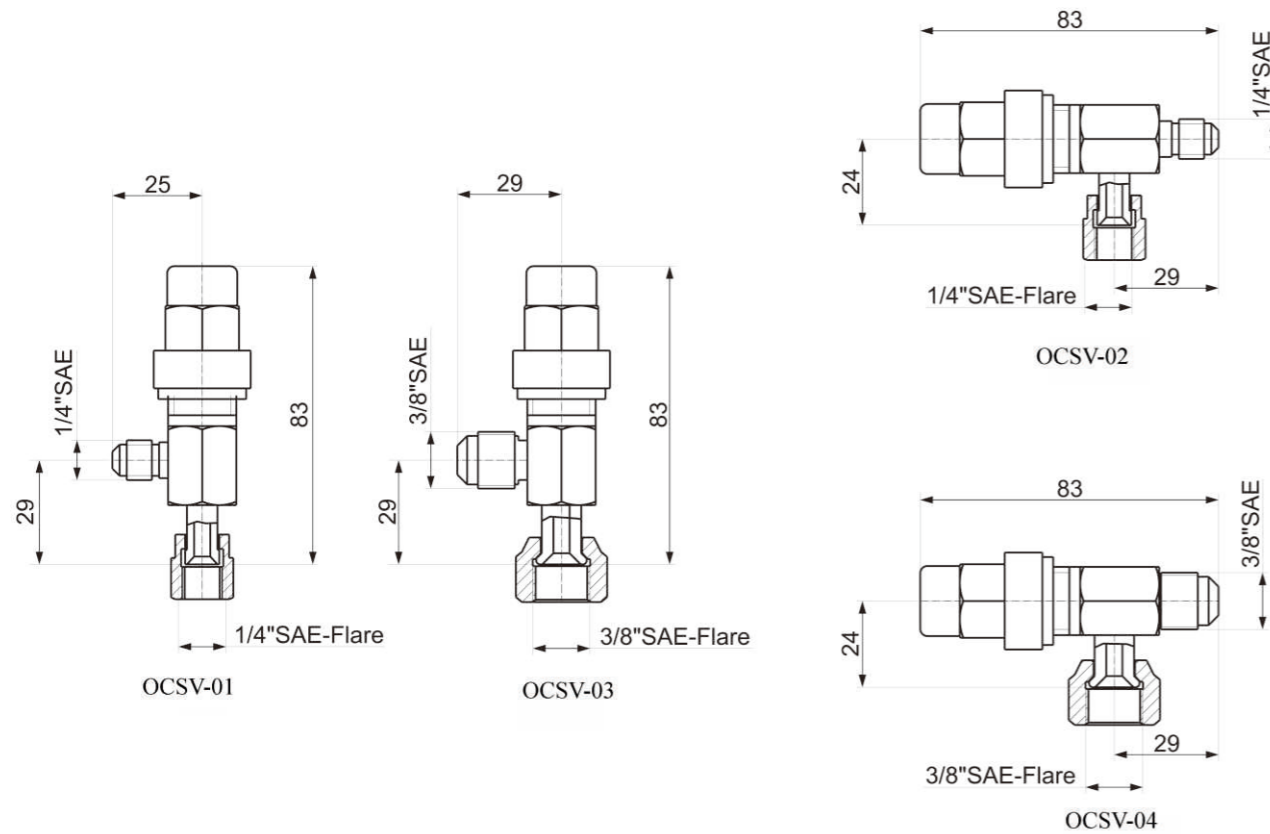
- ◆ 油路截止阀的主要是为系统的维护起到断路作用。
- ◆ 有水平和立式两种结构，可以水平和垂直安装。
- ◆ 360°旋转连接定位
- ◆ 允许工作压力: 0 到34.5 公斤
- ◆ 允许工作温度: -10 °C 到+ 100 °C
- ◆ 阀体和旋转轴子材料为铜
- ◆ 阀杆为镀钢
- ◆ 阀盖为注塑塑料件

### Applications

- ◆ These valves are designed to be mounted on the oil inlet and equalisation pipe lines of BLUE REFRIGERATION Oil Level Regulators. This allows each oil level regulator to be isolated in the event that servicing is required on the compressor, oil level regulator, strainer, etc.
- ◆ The valves are suitable for HCFC and HFC refrigerants along with their associated oils.
- ◆ On request, these valves can be supplied with a higher pressure rating for sub-critical CO2 and R410A applications.

### 应用

- ◆ 油路截止阀主要是设计安装在布鲁油路系统的油路进口和油位平衡器的平衡口管路上的。这样就使得油位平衡器是相对独立于油路系统的部件，使得在维护压缩机时便于维护油位平衡器，油过滤器等部件。
- ◆ 油路截止阀适合HCFC 和 HFC等制冷剂及其配套使用的冷冻油。
- ◆ 油路截止阀可以按照客户要求，将压力调整到更高的压力适合CO2 和R410A 等高压制冷剂系统使用。



### Technical data/技术参数

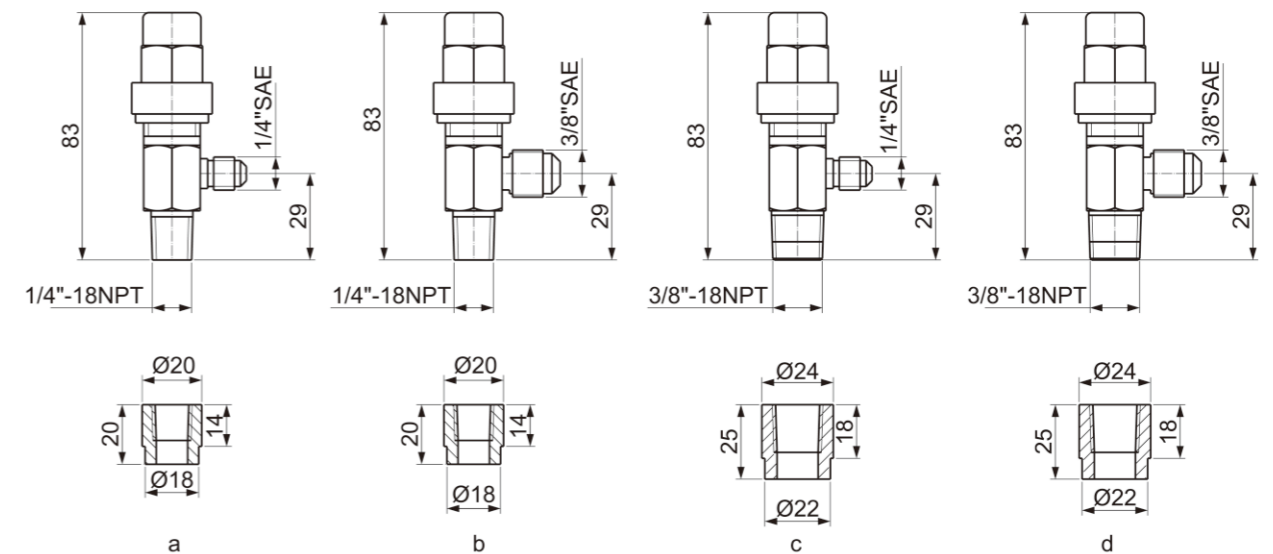
Model 型号	Connections 接口尺寸		Type 款式	Weight (kg) 重量	Henry Cross Reference
	Fixed 固定	Swivel 旋转			
BLR/OCSV-01	1/4 SAE Male	1/4 SAE Female	Vertical	0.14	S-9106E
BLR/OCSV-02	1/4 SAE Female	1/4 SAE Female	Horizontal	0.15	none
BLR/OCSV-03	3/8 SAE Male	3/8 SAE Female	Vertical	0.17	S-9106V
BLR/OCSV-04	3/8 SAE Female	3/8 SAE Male	Horizontal	0.16	none

BLR/SV Service Valve can be assembled in the suction line and the discharge line and the oil line of the refrigeration compressor unit. You can inspect the pressure of each section of the line conveniently by using this valve

BLR/SV 检修阀可以被安装在吸气管路和排出管路和油制冷压缩机。通过使用此阀，您可以方便地检查线的每个部分的压力。

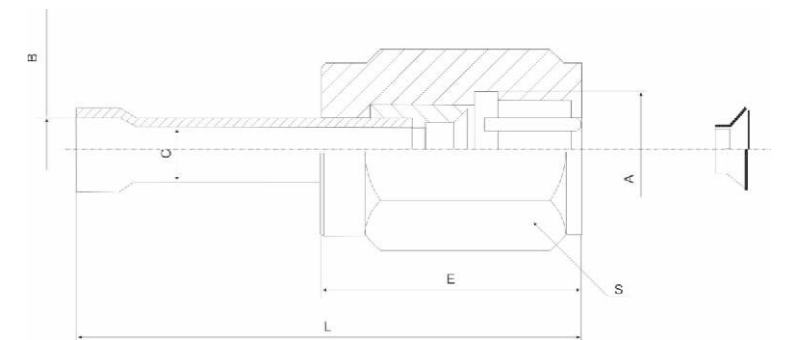
BLR/SV Service Valve can supply the maintenance service to the manometer and the pressure controller and the pressure sensor conveniently, and at the same time it can be connected with the vacuum pump during maintenance the equipment.

BLR/SV检修阀可以提供的压力计和压力控制器和压力传感器方便的维修服务，同时，它可以连接在维修过程中的设备与真空泵。



Mode 型号	A	B	Figure number 图号
BLR/SV01	1/4"SAE	1/4"-18NPT	a
BLR/SV02	3/8"SAE	1/4"-18NPT	b
BLR/SV03	1/4"SAE	3/8"-18NPT	c
BLR/SV04	3/8"SAE	3/8"-18NPT	d

### BLR/FSA Adapter BLR/FSA 转接头

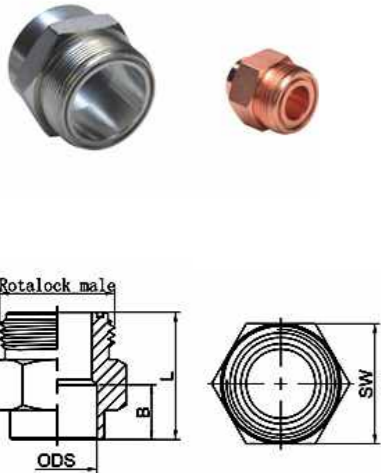


Model 型号	Connection 接口		Dimension (mm) 尺寸 (毫米)						Weight 重量 (g)
	SAE	ODF	A	B	C	L	E	S	
BLR/FSA 014	1/4"	6.35	7/16"x 20UNF-2A	6.35	6.35	46.5	24	17	0.05
BLR/FSA 015	3/8"	9.52	5/8"x 20UNF-2A	9.7	9.52	57.3	28	22	0.09
BLR/FSA 016	1/2"	12.7	3/4"x 20UNF-2A	12.8	12.7	66.9	31	24	0.11
BLR/FSA 017	5/8"	15.88	7/8"x 20UNF-2A	16	15.88	72	32.5	27	0.11
BLR/FSA 018	3/4"	18.9	1-1/16"x 20UNF-2A	19.2	18.9	85.8	37	36	0.14
BLR/FSA 019	7/8"	22	1-1/4"x 20UNF-2A	22.4	22	108	44.8	41	0.28



Model 型号	Body 方体 (mm)	Connections 接口尺寸		
		Service Connection 检修接口	Rotolock Connection 锁定接口	Inlet Connection 进口
BLR/RV-1/4	20	2 pcs. x 1/4" SAE	3/4"	1/4" ODS
BLR/RV-3/8	20	2 pcs. x 1/4" SAE	1"	3/8" ODS
BLR/RV-1/2	20	2 pcs. x 1/4" SAE	1"	1/2" ODS
BLR/RV-5/8	20	2 pcs. x 1/4" SAE	1"	5/8" ODS
BLR/RV-3/4	22	2 pcs. x 1/4" SAE	1 1/4"	3/4" ODS
BLR/RV-7/8	22	2 pcs. x 1/4" SAE	1 1/4"	7/8" ODS
BLR/RV-1 1/8	36	2 pcs. x 1/4" SAE	1 3/4"	1 1/8" ODS
BLR/RV-1 3/8	36	2 pcs. x 1/4" SAE	1 3/4"	1 3/8" ODS
BLR/RV-1 5/8	36	2 pcs. x 1/4" SAE	1 3/4"	1 5/8" ODS
BLR/RV-1 5/8	50	2 pcs. x 1/4" SAE	2 1/4"	1 5/8" ODS
BLR/RV-2 1/8	50	2 pcs. x 1/4" SAE	2 1/4"	2 1/8" ODS
BLR/RV/A-1	20	2 pcs. x 1/4" SAE	1"	1"
BLR/RV/A-114	30	2 pcs. x 1/4" SAE	1 1/4"	1 1/4"
BLR/RV/A-134	50	2 pcs. x 1/4" SAE	1 3/4"	1 3/4"
BLR/RV/A-214	50	2 pcs. x 1/4" SAE	2 1/4"	2 1/4"

### Steel Male Rotolock 锁定头

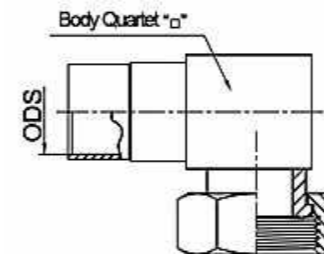
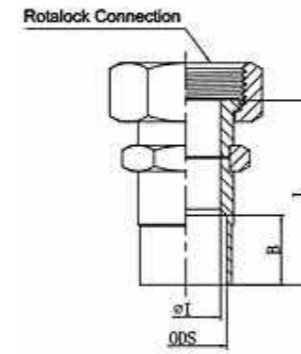


Model 型号	RotolockMale 锁定头	ODS		Size (mm)		
		mm	inch	B	SW	L
BLR/SW-01	3/4"-16UNF	10	-	8	19	23
BLR/SW-02		-	3/8"			
BLR/SW-03		12	-			
BLR/SW-04		-	1/2"			
BLR/SW-05		10	-			
BLR/SW-06	-	3/8"				
BLR/SW-07	1"-14UNS	12	-	10	27	28
BLR/SW-08		-	1/2"			
BLR/SW-09		16	5/8"			
BLR/SW-10		18	-			
BLR/SW-11		-	3/4"			
BLR/SW-12	1 1/4"-12UNF	18	-	15	33	35
BLR/SW-13		-	3/4"			
BLR/SW-14		22	7/8"			
BLR/SW-15		28	-			
BLR/SW-16		22	7/8"			
BLR/SW-17	28	-				
BLR/SW-18	1 3/4"-12UNF	-	1 1/8"	20	46	38
BLR/SW-19		35	1 3/8"			
BLR/SW-20		42	-			
BLR/SW-21		-	1 5/8"			
BLR/SW-22		35	1 3/8"			
BLR/SW-23	42	-				
BLR/SW-24	2 1/4"-12UNF	-	1 5/8"	20	60	53
BLR/SW-25		54	2 1/8"			
BLR/SW-26		67	2 5/8"			
					70	

### Flange Connectors 法兰接头



Model 型号	Length 总长 (mm)	Connections 接口尺寸	
		Service Connection 检修接口	Inlet Connection 进口
BLR/F-54	292	64	2 1/8" ODS
BLR/F-65	292	64	2 5/8" ODS
BLR/F-76	361	85	3 1/8" ODS
BLR/F-89	386	97	3 5/8" ODS
BLR/F-102	412	111	4 1/8" ODS
BLR/F-114	482	140	5" ODS
BLR/F-145	482	140	5 1/2" ODS



### Straight Rotolock Connection 直接头

Model 型号	Rotolock Connection 锁定阀接口	ODS		Size( mm )		
		mm	inch	B	I	L
BLR/SR-01	3/4"-16UNF SW22(Hex)	6	-	8	4.8	38
BLR/SR-02		-	1/4"			
BLR/SR-03		10	-			
BLR/SR-04		-	3/8"			
BLR/SR-05		12	-			
BLR/SR-06		-	1/2"			
BLR/SR-07		6	-			
BLR/SR-08	-	1/4"	10	11	41.5	
BLR/SR-09	10	-				
BLR/SR-10	-	3/8"				
BLR/SR-11	12	-				
BLR/SR-12	-	1/2"				
BLR/SR-13	16	5/8"				
BLR/SR-14	16	5/8"				13
BLR/SR-15	18	-	16	17	50.5	
BLR/SR-16	-	3/4"				
BLR/SR-17	22	7/8"	19	18		
BLR/SR-18	28	-	23	19	55	
BLR/SR-19	-	1 1/8"				
BLR/SR-20	28	-				
BLR/SR-21	-	1 1/8"	24.5	27	57	
BLR/SR-22	35	1 3/8"				
BLR/SR-23	42	-				
BLR/SR-24	-	1 5/8"	28	61	67	
BLR/SR-25	42	-				
BLR/SR-26	-	1 5/8"	28	38		
BLR/SR-27	54	2 1/8"	34	69		

### Elbow Rotolock Connection 直角接头

Model 型号	方体 mm*mm	Rotolock Connection 锁定阀接口	ODS	
			mm	inch
BLR/ER-01	□ 20	3/4"-16UNFSW22 (Hexangular)	6	-
BLR/ER-02			-	1/4"
BLR/ER-03			10	-
BLR/ER-04			-	3/8"
BLR/ER-05			12	-
BLR/ER-06		-	1/2"	
BLR/ER-07		6	-	
BLR/ER-08		-	1/4"	
BLR/ER-09		10	-	
BLR/ER-10		-	3/8"	
BLR/ER-11		12	-	
BLR/ER-12	□ 22	3/4"-16UNFSW22 (Hexangular)	-	1/2"
BLR/ER-13	16		5/8"	
BLR/ER-14	16		5/8"	
BLR/ER-15	18		-	
BLR/ER-16	-		3/4"	
BLR/ER-17	22		7/8"	
BLR/ER-18	28		-	
BLR/ER-19	-		1 1/8"	
BLR/ER-20	28		-	
BLR/ER-21	-		1 1/8"	
BLR/ER-22	□ 36		35	1 3/8"
BLR/ER-23	42	-		
BLR/ER-24	-	1 5/8"		
BLR/ER-25	□ 50	42	-	
BLR/ER-26	-	1 5/8"		
BLR/ER-27	54	2 1/8"		



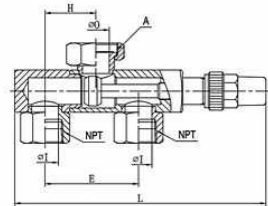
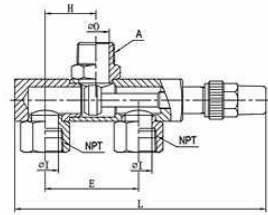


Model型号	方体 mm*mm	A	NPT	Φ1 mm	ΦO mm	H mm	E mm	L mm
BLR/TV01		1"14UNS	1/4"	8	12	30	54	147
BLR/TV02		NPT 1/4"						
BLR/TV03	22	1"14UNS	3/8"	11	12	30	54	147
BLR/TV04		NPT 3/8"						
BLR/TV05		1"14UNS	1/2"	13.5	13.5	30	54	147
BLR/TV06		NPT 1/2"						
BLR/TV07	30	1-1/4"-12UN	3/4"	19	19	35	66	179
BLR/TV08		NPT 3/4"						
BLR/TV09	36	NPT 1"	1"	25	23	33	80	220

Note 注

- The maximum working air pressure:4.5Mpa,Hydraulic pressure:6.8Mpa , Pressure range:1.0-4.8Mpa
- Suitable medium:R22、R502、R407c、R134a、R404a、R600a , etc,refrigerants and other refrigerating oil.
- Suitable temperature:-40°C ~ 130°C
- Unless otherwise specified standard on :GB/T 12243-2005.

- 最大工作空压：4.5Mpa，液压：6.8Mpa，压力范围：1-4.8Mpa
- 适用于R22、R502、R407c、R134a、R404a、R600a等制冷剂以及其他冷冻油
- 使用温度：-40°C ~ 130°C
- 除非有另外规定，我们的标准是:GB/T 12243-2005.



Safety Valves/安全阀

Model 型号	Working Pressure 工作压力	Connections 接口尺寸	
		NPT Connection NPT 接口	SAE Connection SAE 接口
3060/23C	28 Bar & 32 Bar	1/4" NPT	3/8" SAE
3060/24C	28 Bar & 32 Bar	1/4" NPT	1/2" SAE
3060/33C	28 Bar & 32 Bar	3/8" NPT	3/8" SAE
3060/34C	28 Bar & 32 Bar	3/8" NPT	1/2" SAE
3060/45C	28 Bar & 32 Bar	1/2" NPT	5/8" SAE

Safety Valves/安全阀

Model 型号	Working Pressure 工作压力	Connections 接口尺寸	
		NPT Connection NPT 接口	SAE Connection SAE 接口
3030/44C	28 Bar & 32 Bar	1/2" NPT	3/4" G

CHANGEOVER DEVICES FOR SAFETY VALVES/转换阀

Model 型号	Desinged For Valve 阀体设计	Connections 接口尺寸	
		Conn. For The Tank 储液器端接口	Conn. For The Safety Valve 安全阀端接口
3032/44	3060/45C	1/2" NPT	1/2" NPT

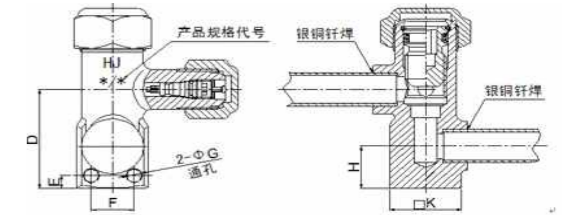
Safety Valves/安全阀

- ◆ Used to discharge excessive pressure formed in the system.
- ◆ We strongly recommend using them especially in products of pressure vessel.
- ◆ 用于履行在系统中形成过大的压力。
- ◆ 我们强烈建议使用，尤其是在压力容器产品。

Frontseating Valves are used as service valves in split air-conditioning and heat-pump systems. The valves is an isolate section of a system for service and provide a means for charging refrigerant into a unit.

方体阀,又名北美截止阀,是按北美市场客户个性化需求的一种截止阀.适用于以R22、R407C和R410A等为制冷剂的分体式空调中,连接分体式空调的室内机与室外机.在空调产品运输、维修过程中,顺时针转动阀杆并按规定扭矩起锁紧,可以关闭阀的内部通道,起到断路作用。

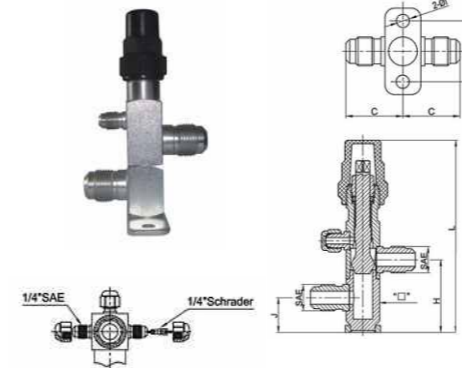
Medium 介质	Pressure 压力(MPa)
R22/R134A	3
R407c/R404A	3.5
R410a	4.2



Model 型号	Connetion 接口	Valve Diameter 阀孔径 (mm)	Size 尺寸 (mm)						TubeSize 接管规格 (mm)	Remark 备注
			D	H	G	F	E	K		
BLR/FV-038	3/8"	Φ7	27.4	11.7	3.6	10.5	3.6	17.5	Φ9.52x0.75	The Copper could be curved and flaring. 紫铜接管可根据客户需求进行弯管和扩口
BLR/FV-012	1/2"	Φ10	40	18.5	3.6	10.5	3.6	20	Φ12.7x0.8	
BLR/FV-058	5/8"	Φ12.8	40	18.5	3.6	14	3.6	22	Φ16x1	
BLR/FV-034	3/4"	Φ15.5	40	18.5	3.6	14	3.6	22	Φ19x1	
BLR/FV-078	7/8"	Φ18	44	18.5	3.6	14	3.6	25.4	Φ22.2x1.2	
BLR/FV-118	1 1/8"	Φ24	50	21	3.6	14	3.6	31	Φ28.6x1.5	

BLR/BVF With brackets vertical valves 托架阀

Model	方体 mm*mm	SAE	H	J	L	C	Y	Ø
			mm	mm	mm	mm	mm	mm
BLR/BVF-014	20	1/4"	44	17.5	110	24	51	6.5
BLR/BVF-038		31.5						
BLR/BVF-012		31						
BLR/BVF-058		33.5						
BLR/BVF-034	30	3/4"	60	25	153	42.5	11	
BLR/BVF-078		7/8"				46		



Cast Iron Stop Valves/铸铁阀

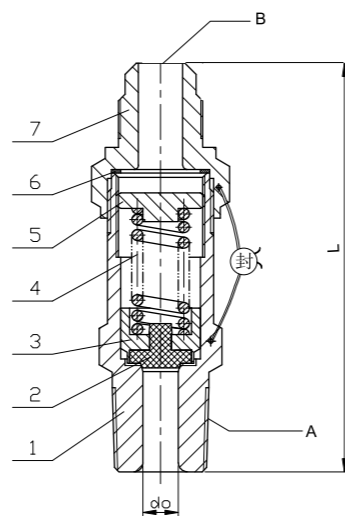
Model 型号	Dimensions 尺寸		Connections 接口尺寸	
	L (mm)	D (mm)	Service Connection 检修接口	Inlet Connection 进口
BLR/V-54	292	64	1/4" NPT	2 1/8" ODS
BLR/V-65	292	64	1/4" NPT	2 5/8" ODS
BLR/V-80	361	85	1/4" NPT	3 1/8" ODS
BLR/V-92	386	97	1/4" NPT	3 5/8" ODS
BLR/V-102	412	111	1/4" NPT	4 1/8" ODS
BLR/V-130	482	140	1/4" NPT	5" ODS
BLR/V-145	482	140	1/4" NPT	5 1/2" ODS



### Specification 性能参数

- ◆Nominal diameter: DN1/4 - 1 1/2
- ◆Strength test pressure: 7.5Mpa
- ◆Relieving pressure: ≤1.1 times of the setting pressure
- ◆Seal pressure: 0.9 times of the setting pressure
- ◆Seal property: Pressure test 2 minutes without leakage, halogen test leakage rate ≤0.1 oz/year
- ◆Suitable temperature: -40 ~ 120°C
- ◆Suitable medium: Refrigerant, oil, water, etc

- ◆公称压力: 300Lbs
- ◆公称口径: DN1/4 - 1 1/2
- ◆强度试验压力: 7.5Mpa
- ◆排放压力: ≤1.1倍设定压力
- ◆密封压力: 0.9倍设定压力
- ◆密封性: 气压试验2分钟无泄漏、卤素检漏试验泄漏率≤0.1盎司/年
- ◆适用温度: -40-120°C
- ◆适用介质: 制冷剂、油、水等



### Main parts material 主要零件材料

- |                                  |                     |
|----------------------------------|---------------------|
| 1. Body: HPb59-1/H62             | 1.阀体: HPb59-1/H62   |
| 2. Seal: PTFE                    | 2.密封圈: PTFE         |
| 3. Disc: HPb59-1/H62             | 3.阀瓣: HPb59-1/H62   |
| 4. Spring: 50CrVA+Nickel plating | 4.弹簧: 50CrVA+镀镍     |
| 5. Adjust nut: HPb59-1/H62       | 5.调整螺母: HPb59-1/H62 |
| 6. Gasket: T3                    | 6.垫片: T3            |
| 7. Nut: HPb59-1/H62              | 7.螺母: HPb59-1/H62   |

### Technical data/技术参数

Model 型号	Air Relieving Capacity 排量(Lbs/min)					Dimensions 尺寸			
	Set Pressure 设定压力 Psig(mpa)					Flow Diameter 流通直径	Inlet 进口	Outlet 出口	Length 长度
	200(1.38)	250(1.72)	300(2.07)	350(2.41)	400(2.76)				
BLR/SV-DN1/4	9.8	12	14.3	16.6	18.9	6.3	1/4-18MNPT	5/8-18UNF	80
BLR/SV-DN3/8	12.1	14.8	17.7	20.5	23.4	7	3/8-18MNPT	5/8-18UNF	88
BLR/SV-DN1/2	15.7	19.4	23.1	26.8	30.5	7.8	1/2-14MNPT	7/8-14UNF	92
BLR/SV-DN3/4	29.8	36.6	43.7	50.6	57.7	11	3/4-14MNPT	3/4-14FNPT	105
BLR/SV-DN1	79.7	98.1	11.7	136	154	18	1-11.5MNPT	1-11.5FNPT	120
BLR/SV-DN1 1/4	119	147	175	202	231	26	1 1/4-11.5MNPT	1 1/4-11.5FNPT	150
BLR/SV-DN1 1/2	173	213	254	294	335	28	1 1/2-11.5MNPT	1 1/2-11.5FNPT	175

### General Description/描述

BLR/PWV series pressure controlled water valves are usually installed on the inlet of condenser, which can regulate the flow of cooling water according to the change of condensing pressure. When condensing pressure of compressor rises, valve is turned up automatically, so more cooling water enters the condenser to accelerate the condensing of refrigerant. Reversely, when condensing pressure of compressor drops, valve is turned down automatically, so cooling water reduces and the condensing pressure is kept within certain range. The BLR/PWV condensing pressure regulating valve regulating method: Rotatable adjustment 'adjustment screw' clockwise turn the valve off a small counter-clockwise rotation, the valve opening large.

BLR/PWV系列冷凝压力调节阀一般安装在冷凝器的冷却水管路上(通常安装在冷凝器的进水端),根据冷凝压力的变化来调节冷却水的流量。当压缩机的冷凝压力升高(即冷凝压力升高)时,阀会自动开大,使较多的冷却水进入冷凝器,加快制冷剂冷凝的速度;反之,当冷凝压力下降时,阀会自动关小,使进入冷凝器的冷却水量减少,从而使冷凝压力保持在一定的范围内。BLR/PWV冷凝压力调节阀调节方法:调节时可转动'调节螺杆',顺时针转动,阀门关小,逆时针转动,阀门开大。

### Technical Date/技术参数

Type 款式	Model 型号	Condenser Side 冷凝器侧			Liquid Side 液体侧			Pressure 设定开启压力 (MPa)	Kv Kv值 m3/h	
		Gas 制冷剂	Range 调节范围 (MPa)	Max. Pressure 最大工作压力 (MPa)	Max test 最大试验压力 (MPa)	Medium 介质 (MPa)	Max Work 最大工作压力 (MPa)			Max. Temp. 最高温度 (°C)
Low Pressure 低压	BLR/PWV-3/8	R134a, R22, R407C, R404a, R507	0.5-1.8	2	2.4	Water 淡水	1	60	0.75	0.8
	BLR/PWV-1/2		0.7-2.3	2.6	3				2	2.5
	BLR/PWV-3/4								3.2	5
	RW-PWV-1		5	0.8						
High Pressure 高压	BLR/PWV-3/8G	R410a	1.5-2.9	3.8	4.5	1	60	2.6	2.5	
	BLR/PWV-1/2G							3.2	5	
	BLR/PWV-3/4G							5	0.8	
	BLR/PWV-1G									

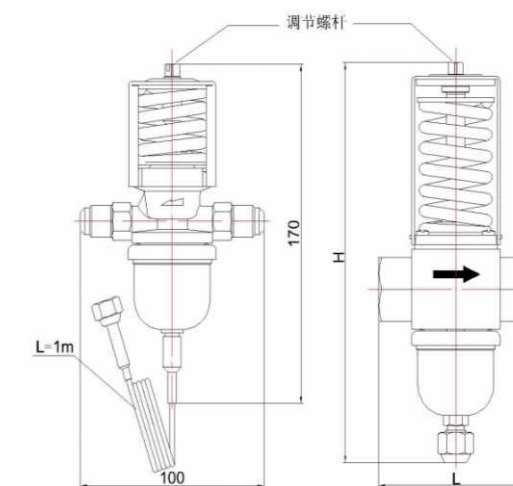


KV Indicates the flow rate of the medium through the valve differential pressure equal to 1 bar, Unit m3/h,  $\rho = 1000\text{kg/m}^3$

Kv值表示介质通过阀门压差等于1bar时的流量, 单位为m3/h, 密度  $\rho = 1000\text{kg/m}^3$

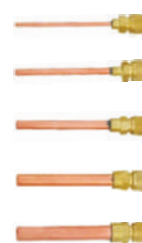
### Connector Size 连接尺寸

Model 型号	Condenser side 冷凝器端	Liquid Side 液体端	外形尺寸Size(mm)	
			长(L)	高(H)
BLR/PWV-3/8 BLR/PWV-3/8G	6mm (1/4in.)ODS	3/8"ODS	100	170
BLR/PWV-1/2 BLR/PWV-1/2G		G1/2	84	204
BLR/PWV-3/4 BLR/PWV-3/4G		G3/4	84	204
BLR/PWV-1 BLR/PWV-1G		G1	100	220






### Access Valve




Model.	Description
BLR-AV04A	1/4 OD x 2-5/8" copper tube extension
BLR-AV04B	1/4 OD x 4" copper tube extension
BLR-AV04C	1/4 OD x 3-1/2" copper tube extension
BLR-AV04D	1/4 OD x 3-1/8" copper tube extension
BLR-AV04E	1/4 OD x 2-3/8" copper tube extension
BLR-AV04F	1/4 OD x 2" copper tube extension
BLR-AV04H	1/4 OD x 0.75x2" copper tube extension
BLR-AV04G	1/4 OD x 1-3/4" copper tube extension
BLR-AV02A	1/8 OD x2-5/8" copper tube extension
BLR-AV02B	1/8 OD x4" copper tube extension
BLR-AV02D	1/8 OD x3-1/8" copper tube extension
BLR-AV02F	1/8 OD x 2" copper tube extension
BLR-AV03A	3/16 OD x 2-5/8" copper tube extension
BLR-AV03B	3/16 OD x 4" copper tube extension
BLR-AV03D	3/16 OD x3-1/8" copper tube extension
BLR-AV03F	3/16 OD x 2" copper tube extension
BLR-AV05A	5/16 OD x2-5/8" copper tube extension
BLR-AV05B	5/16 OD x 4" copper tube extension
BLR-AV05D	5/16 OD x3-1/8" copper tube extension
BLR-AV05F	5/16 OD x 2" copper tube extension
BLR-AV06A	3/8 OD x2-5/8" copper tube extension
BLR-AV06B	3/8 OD x 4" copper tube extension
BLR-AV06D	3/8 OD x3-1/8" copper tube extension
BLR-AV06F	3/8 OD x 2" copper tube extension

### Straight Solder With 1/8 NPT & 2" Extended Tube




Model.	Description
BLR-AVUX-2R	1/8 NPT to 3/16, 1/4, 5/16 steps & 1/8 x 2" copper ext.
BLR-AVUX-3R	1/8 NPT to 1/4, 5/16 steps & 3/16 x 2" copper ext.
BLR-AVUX-4R	1/8 NPT to 5/16 steps & 1/4 x2" copper ext.

### Step Down Solder With 2 5/8" Extended Tube




Model.	Description
BLR-AV2-02	3/16, 1/4, 5/16 steps with 1/8 OD x2-5/8" copper tube extension
BLR-AV3-03	1/4, 3/8 steps with 3/16 ODx2-5/8" copper tube extension

### Straight Solder With 2" Extended Tube and stops




Model.	Description
BLR-AVX-2	1/8 OD X 2" copper tube extension w/core remover
BLR-AVX-2R	1/8 OD X 2" copper tube extension
BLR-AVX-3	3/16 OD X2" copper tube extension
BLR-AVX-3R	3/16 OD X2" copper tube extension w/core remover
BLR-AVX-4	1/4 ODX2" copper tube extension
BLR-AVX-4R	1/4 ODX2" copper tube extension w/core remover
BLR-AVX-5	5/16 ODX2" copper tube extension
BLR-AVX-5R	5/16 ODX2" copper tube extension w/core remover
BLR-AVX-6	3/8 ODX 2" copper tube extension
BLR-AVX-6R	3/8 OD X2" copper tube extension w/core remover

### Union Tee With Swivel Nut&Core Depressor




Model.	Description
BLR-AVS-44	1/4 malex1/4 swivel nut on runx1/4 access on branch
BLR-AVS-45	1/4 malex5/16 swivel nut on run x1/4 access on branch

### Copper Solder Tee




Model.	Description
BLR-AVT-4	1/4 ODS x 5/16 ODF tube & 1/4 access on branch
BLR-AVT-4R	1/4 ODS x 5/16 ODF tube & 1/4 access on branch w/core remover
BLR-AVT-5	5/16 ODS x 3/8 ODF tube & 1/4 access on branch
BLR-AVT-5R	5/16 ODS x 3/8 ODF tube & 1/4 access on branch w/core remover
BLR-AVT-6	3/8 ODS x 7/16 ODF tube & 1/4 access on branch
BLR-AVT-6R	3/8 ODS x 7/16 ODF tube & 1/4 access on branch w/core remover
BLR-AVW-8	1/2 ODS tube & 1/4 access on branch
BLR-AVW-8R	1/2 ODS tube & 1/4 access on branch w/core remover
BLR-AVW-10	5/8 ODS tube & 1/4 access on branch
BLR-AVW-10R	5/8 ODS tube & 1/4 access on branch w/core remover
BLR-AVW-12	3/4 ODS tube & 1/4 access on branch
BLR-4AVW-12R	3/4 ODS tube & 1/4 access on branch w/core remover
BLR-AVW-14	7/8 ODS tube & 1/4 access on branch
BLR-AVW-14R	7/8 ODS tube & 1/4 access on branch w/core remover

### Step Down Solder




Model.	Description
BLR-CT7000	1/8 ID & 3/16, 1/4, 5/16, 3/8, 1/2 steps
BLR-CT7000R	1/8 ID & 3/16, 1/4, 5/16, 3/8, 1/2 steps w/core remover
BLR-AVU-345R	1/8 NPT to 3/16, 1/4, 5/16 steps & 1/8 hole
BLR-AV2-456	1/8 ID & 3/16, 1/4, 5/16 steps
BLR-AV2-456R	1/8 ID & 3/16, 1/4, 5/16 steps w/core remover
BLR-AV3-346	3/16 OD tube or 1/4, 3/8 solder
BLR-AV3-346R	3/16 OD tube or 1/4, 3/8 solder w/core remover

### Straight Solder




Model.	Description
BLR-AV-34	3/16 OD tube and 1/4 solder
BLR-AV-34R	3/16 OD tube and 1/4 solder w/core remover
BLR-AV-46	1/4 OD tube and 3/8 solder
BLR-AV-46R	1/4 OD tube and 3/8 solder w/core remover

### Half Union




Model.	Description
BLR-AVU-24	1/8 NPT and 1/4 OD solder
BLR-AVU-24R	1/8 NPT and 1/4 OD solder w/core remover
BLR-AVU-45	1/8 NPT and 5/16 OD solder
BLR-AVU-45R	1/8 NPT and 5/16 OD solder w/core remover

### Union With Flare Nut




Model.	Description
BLR-AVU-4	1/4 male flare x1/4 access
BLR-AVU-4R	1/4 male flare x1/4 access w/core remover

### Union



Model.	Description
BLR-AVU-44	1/4 female flare x1/4 access
BLR-AVU-44R	1/4 female flare x1/4 access w/core remover



Model.	Description
BLR-AVS-55	1/4 malex5/16 access on run x 5/16 swivel nut on branch w/depressor
BLR-AVS-55C	1/4 malex5/16 access on run x 5/16 swivel nut on branch w/core
BLR-AVS-64	1/4 malex1/4 access on run x 1/4 swivel nut on branch w/depressor
BLR-AVS-65	1/4 malex1/4 access on run x 5/16 swivel nut on branch w/depressor

## U Type Copper Elbow U形铜弯头

### Application 用途

Evaporator, condenser coil elbow (semi - round pipe, large semi - round pipe) and connecting pipe in air-conditioning and refrigeration system  
空调制冷系统蒸发器、冷凝器盘管弯头（半圆管、大半圆管）和连接管

### Product Features 产品特性

The high precision copper pipe is bent into U shape by automatic pipe bender.

The product has uniform wall thickness, full bending, small deformation and stable size.

The inner wall is smooth, and the refrigerant flow rate is stable and no pressure loss is ensured after loading into the system.

Unique environmental cleaning process, product inside and outside surface is clean and bright, not easy to oxidize black;

The raw and auxiliary materials and the whole production process comply with ROHS standards.

由全自动弯管机将高精度铜管折弯成U形。产品壁厚均匀，弯曲处饱满，变形量小，尺寸稳定；

内壁光滑，装入系统后确保制冷剂流速稳定，无压力损失；

独特环保清洗工艺，产品内外表面清洁光亮，不易氧化发黑；产品原辅材料及整个生产工艺符合ROHS标准。

### Technical Specification 技术参数

1. Pressure Test: internal 6.3mpa water pressure for 5min, no deformation and leakage of the product;

2. Blasting Pressure: internal 13MPa water pressure for 1 min, no rupture and leakage of the product;

3. Internal Impurity Content  $\leq 38\text{mg/m}^2$ ;

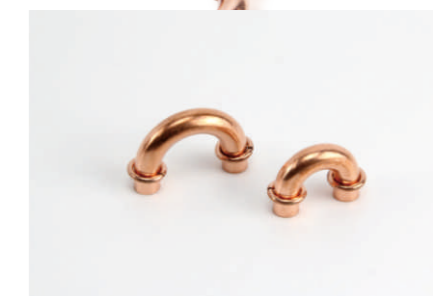
4. The deformation rate of curved tube is less than 15%.

1. 耐压试验：内部6.3MPa水压下保压5min，产品无变形和泄漏；

2. 爆破压力：内部13MPa水压下保压1min，产品无破裂和泄漏；

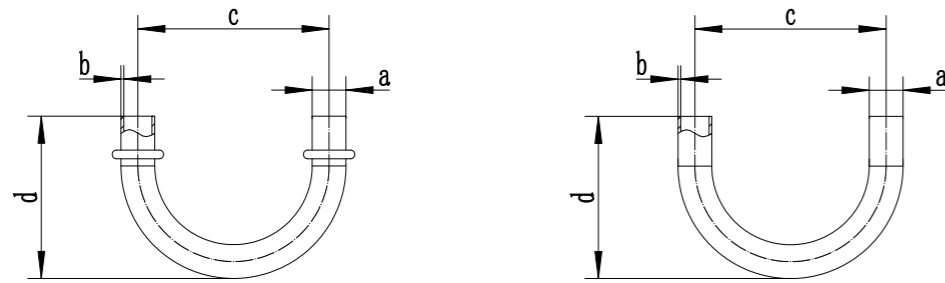
3. 内部杂质含量  $\leq 38\text{mg/m}^2$

4. 弯曲部管的变形率  $\leq 15\%$



A Type

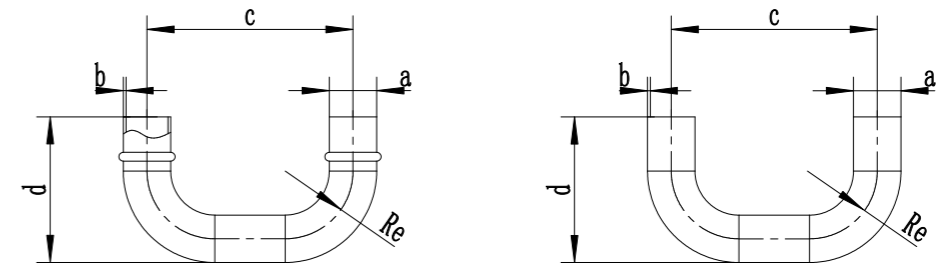
A形



No 序号	Specification 规格	Diameter 尺寸 (mm)			
		a	b	c	d
1	Φ5*0.41*14.14	5	0.41	14.14	18.5
2	Φ5*0.41*14.5	5	0.41	14.5	17.75
3	Φ5*0.41*15.15	5	0.41	15.15	16.98
4	Φ5*0.41*15.15	5	0.41	15.15	18.28
5	Φ5*0.41*19.5	5	0.41	19.5	18.45
6	Φ5*0.41*19.5	5	0.41	19.5	19.15
7	Φ5*0.41*20	5	0.41	20	18.5
8	Φ5*0.41*28.28	5	0.41	28.28	24
9	Φ5*0.6*14.5	5	0.6	14.5	17.75
10	Φ5*0.6*15.15	5	0.6	15.15	16.98
11	Φ5*0.6*15.15	5	0.6	15.15	18.28
12	Φ5*0.6*19.5	5	0.6	19.5	19.15
13	Φ5*0.6*21	5	0.6	21	20.5
14	Φ5*0.6*22.5	5	0.6	22.5	21.25
15	Φ5*0.6*25.1	5	0.6	25.1	21.05
16	Φ5*0.6*31.5	5	0.6	31.5	24.45
17	Φ5*0.6*31.5	5	0.6	31.5	25.15
18	Φ7*0.41*16.17	7	0.41	16.17	19.59
19	Φ7*0.41*16.48	7	0.41	16.48	20
20	Φ7*0.41*17	7	0.41	17	18
21	Φ7*0.41*18.2	7	0.41	18.2	19.6
22	Φ7*0.41*18.2	7	0.41	18.2	20.6
23	Φ7*0.41*21	7	0.41	21	20
24	Φ7*0.5*24.3	7	0.5	24.3	21.65
25	Φ7*0.6*14.2	7	0.6	14.2	18.6
26	Φ7*0.6*15	7	0.6	15	19
27	Φ7*0.6*15.4	7	0.6	15.4	19.2
28	Φ7*0.6*15.77	7	0.6	15.77	19.39
29	Φ7*0.6*16	7	0.6	16	19.5
30	Φ7*0.6*16.17	7	0.6	16.17	19.59
31	Φ7*0.6*16.3	7	0.6	16.3	19.65
32	Φ7*0.6*16.7	7	0.6	16.7	19.85
33	Φ7*0.6*17	7	0.6	17	20
34	Φ7*0.6*17.2	7	0.6	17.2	19.6
35	Φ7*0.6*17.5	7	0.6	17.5	20.25
36	Φ7*0.6*17.8	7	0.6	17.8	20.4
37	Φ7*0.6*18.2	7	0.6	18.2	20.6
38	Φ7*0.6*20.5	7	0.6	20.5	19.75
39	Φ7*0.6*21	7	0.6	21	20
40	Φ7*0.6*22	7	0.6	22	22.5
41	Φ7*0.6*22.3	7	0.6	22.3	22.65
42	Φ7*0.6*22.5	7	0.6	22.5	21.8
43	Φ7*0.6*23.5	7	0.6	23.5	23.25
44	Φ7*0.6*24	7	0.6	24	23.5
45	Φ7*0.6*24.3	7	0.6	24.3	23.65
46	Φ7*0.6*29.5	7	0.6	29.5	26.25
47	Φ7*0.6*34.2	7	0.6	34.2	29
48	Φ7*0.6*38.4	7	0.6	38.4	32.7
49	Φ7*0.6*91	7	0.6	91	21.5
50	Φ9.52*0.41*25	9.52	0.41	25	22
51	Φ9.52*0.5*25	9.52	0.5	25	22.5
52	Φ9.52*0.6*25.4	9.52	0.6	25.4	25.46
53	Φ9.52*0.6*50	9.52	0.6	50	69.76

B Type

B形



No 序号	Specification 规格	Diameter 尺寸 (mm)				
		a	b	c	d	R
1	Φ5*0.6*25.9	5	0.6	25.9	20.5	10
2	Φ5*0.6*26.6	5	0.6	26.6	18.5	10
3	Φ5*0.6*30.3	5	0.6	30.3	21.5	10
4	Φ5*0.6*31.5	5	0.6	31.5	19.4	10
5	Φ5*0.6*31.5	5	0.6	31.5	20.5	10
6	Φ5*0.6*33.2	5	0.6	33.2	20.5	10
7	Φ5*0.6*38.3	5	0.6	38.3	20.5	10
8	Φ5*0.6*39	5	0.6	39	22.5	10
9	Φ5*0.6*39	5	0.6	39	20.5	10
10	Φ5*0.6*50	5	0.6	50	20.5	10
11	Φ5*0.6*52.3	5	0.6	52.3	20.5	10
12	Φ5*0.6*58.5	5	0.6	58.5	20.5	10
13	Φ5*0.6*58.5	5	0.6	58.5	21.9	10
14	Φ7*0.6*30.4	7	0.6	30.4	21.5	10
15	Φ7*0.6*30.5	7	0.6	30.5	23.5	10
16	Φ7*0.6*31.8	7	0.6	31.8	19.5	10
17	Φ7*0.6*34.2	7	0.6	34.2	19.5	10
18	Φ7*0.6*34.2	7	0.6	34.2	21.5	10
19	Φ7*0.6*36.4	7	0.6	36.4	23.5	10
20	Φ7*0.6*36.6	7	0.6	36.6	21.5	10
21	Φ7*0.6*38.4	7	0.6	38.4	31.5	10
22	Φ7*0.6*39	7	0.6	39	28.5	10
23	Φ7*0.6*41	7	0.6	41	29.5	10
24	Φ7*0.6*41.5	7	0.6	41.5	28.5	10
25	Φ7*0.6*42	7	0.6	42	25.5	15
26	Φ7*0.6*42	7	0.6	42	29.5	15
27	Φ7*0.6*43	7	0.6	43	21.5	10
28	Φ7*0.6*47.4	7	0.6	47.4	28.5	10
29	Φ7*0.6*51.7	7	0.6	51.7	18.5	10
30	Φ7*0.6*54.2	7	0.6	54.2	23.5	10
31	Φ7*0.6*54.2	7	0.6	54.2	28.5	10
32	Φ7*0.6*54.6	7	0.6	54.6	19.5	10
33	Φ7*0.6*57	7	0.6	57	28.5	10
34	Φ7*0.6*57	7	0.6	57	31.5	10
35	Φ7*0.6*63	7	0.6	63	21.5	10
36	Φ7*0.6*63	7	0.6	63	26.5	10
37	Φ7*0.6*69.8	7	0.6	69.8	28.5	10
38	Φ7*0.6*76.7	7	0.6	76.7	31.5	10
39	Φ7*0.6*91	7	0.6	91	19.5	10
40	Φ7*0.6*102	7	0.6	102	28.5	10
41	Φ7*0.6*116.2	7	0.6	116.2	28.5	10
42	Φ7*0.6*137.2	7	0.6	137.2	33.5	10
43	Φ7*0.6*157.5	7	0.6	157.5	31.5	10
44	Φ9.5*0.6*67.2	9.52	0.6	67.2	29.76	15
45	Φ9.5*0.6*76.2	9.52	0.6	76.2	29.76	15



型号 Model			尺寸 Size(mm)			
直通截止阀 Straight through valve	直通节流阀 Through throttle valve	直通截止回阀 Straight through check valve	ΦD	Φd	L	H
BLR/SVY15	BLR/SRY15	BLR/SCVY15	22	15	94	132
BLR/SVY20	BLR/SRY20	BLR/SCVY20	27	20	94	132
BLR/SVY25	BLR/SRY25	BLR/SCVY25	32	25	104	156
BLR/SVY32	BLR/SRY32	BLR/SCVY32	40	32	114	168
BLR/SVY40	BLR/SRY40	BLR/SCVY40	48	40	130	182
BLR/SVY50	BLR/SRY50	BLR/SCVY50	60	50	148	209
BLR/SVY65	BLR/SRY65	BLR/SCVY65	76	65	185	279
BLR/SVY80	BLR/SRY80	BLR/SCVY80	89	80	216	298
BLR/SVY100	BLR/SRY100	BLR/SCVY100	114	100	260	342
BLR/SVY125	BLR/SRY125	BLR/SCVY125	135	125	312	399
BLR/SVY150	BLR/SRY150	BLR/SCVY150	165	150	355	468
BLR/SVY200	BLR/SRY200	BLR/SCVY200	220	200	465	600



名称型号 Name type			尺寸 Size(mm)			
直角截止阀 Right -angle stop valve	直角节流阀 Right angle throttle valve	直角截止回阀 right -angle stop check valve	ΦD	Φd	L	H
BLR/SVT15	BLR/SRT15	BLR/SCVT15	22	15	36	145
BLR/SVT20	BLR/SRT20	BLR/SCVT20	27	20	36	145
BLR/SVT25	BLR/SRT25	BLR/SCVT25	32	25	41	175
BLR/SVT32	BLR/SRT32	BLR/SCVT32	40	32	46	185
BLR/SVT40	BLR/SRT40	BLR/SCVT40	48	40	51	200
BLR/SVT50	BLR/SRT50	BLR/SCVT50	60	50	59	218
BLR/SVT65	BLR/SRT65	BLR/SCVT65	76	65	70	285
BLR/SVT80	BLR/SRT80	BLR/SCVT80	89	80	83	293
BLR/SVT100	BLR/SRT100	BLR/SCVT100	114	100	106	338
BLR/SVT125	BLR/SRT125	BLR/SCVT125	135	125	126	385
BLR/SVT150	BLR/SRT150	BLR/SCVT150	165	150	144	446
BLR/SVT200	BLR/SRT200	BLR/SCVT200	220	200	178	530



### Technical Parameters/技术参数

- 1.Nominal pressrue:2.5MPa
- 2.Test pressure:4.0MPa
- 3.Applicabletemperature:-46℃--+150℃
- 4.Applicable medium:Ammonia, freon, propane, co2 etc.

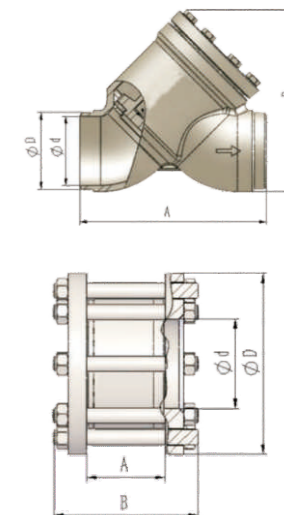
- 1.公称压力: 2.5MPa
- 2.试验压力: 4.0MPa
- 3.适用温度: -46℃--+150℃
- 4.适用介质: 氨、氟、丙烷、CO2等

### Note / 注

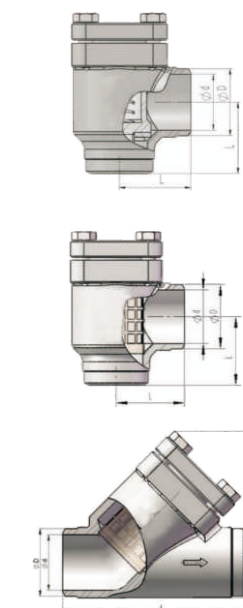
- 1.常规阀门为对焊连接式, 也可提供丝口、插入焊、法兰等连接, 订货时请沟通说明
- 2.常规阀门为手轮式, 如需阀帽保护, 订货时需另外沟通说明

- 1.the conventional valve for welding links,can also provide wire mouth,insert welding and flange connection,please communicate instructions
- 2.the conventional valve for the hand wheel,such as the need to protect the valve cap,ordering the need for additional communication.

型号 Model	尺寸 Size(mm)				型号 Model	尺寸 Size(mm)			
	ΦD	Φd	A	B		ΦD	Φd	A	B
BLR/SVY15	22	15	94	76	BLR/SVH15	19	95	25	75
BLR/SVY20	27	20	94	76	BLR/SVH20	26	105	32	90
BLR/SVY25	32	25	104	83	BLR/SVH25	33	115	36	90
BLR/SVY32	40	32	114	94	BLR/SVH32	39	135	38	100
BLR/SVY40	48	40	130	118	BLR/SVH40	46	145	40	102
BLR/SVY50	60	50	148	138	BLR/SVH50	58	160	44	125
BLR/SVY65	76	65	185	180	BLR/SVH65	77	185	62	130
BLR/SVY80	89	80	216	210	BLR/SVH80	90	200	65	135
BLR/SVY100	114	100	260	255	BLR/SVH100	109	235	68	150
BLR/SVY125	135	125	312	310	BLR/SVH125	134	270	86	180
BLR/SVY150	165	150	355	353	BLR/SVH150	160	300	100	210
BLR/SVY200	220	200	465	460	BLR/SVH200	221	360	110	240



型号 Model	尺寸 Size(mm)	型号 Model	尺寸 Size(mm)		
			ΦD	Φd	L
直角截止回阀 Right angle check value	直角过滤器 FVT15-200 Right angle filter	直通过滤器 Straight through filter	ΦD	Φd	L
BLR/CTV15	BLR/FTV15	BLR/FVY15	22	15	36
BLR/CTV20	BLR/FTV20	BLR/FVY20	27	20	36
BLR/CTV25	BLR/FTV25	BLR/FVY25	32	25	41
BLR/CTV32	BLR/FTV32	BLR/FVY32	40	32	46
BLR/CTV40	BLR/FTV40	BLR/FVY40	48	40	51
BLR/CTV50	BLR/FTV50	BLR/FVY50	60	50	59
BLR/CTV65	BLR/FTV65	BLR/FVY65	76	65	70
BLR/CTV80	BLR/FTV80	BLR/FVY80	89	80	83
BLR/CTV100	BLR/FTV100	BLR/FVY100	114	100	106
BLR/CTV125	BLR/FTV125	BLR/FVY125	135	125	126
BLR/CTV150	BLR/FTV150	BLR/FVY150	165	150	144
BLR/CTV200	BLR/FTV200	BLR/FVY200	220	200	178



### Technical Parameters/技术参数

- 1.Nominal pressrue:2.5MPa
- 2.Test pressure:4.0MPa
- 3.Applicabletemperature:-46℃--+150℃
- 4.Applicable medium:Ammonia, freon, propane, co2 etc.

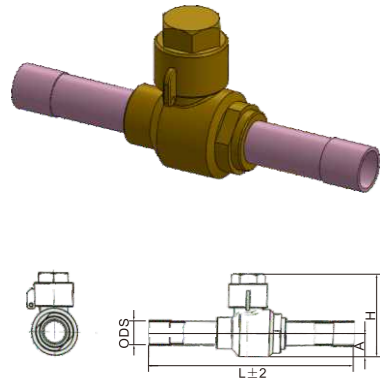
- 1.公称压力: 2.5MPa
- 2.试验压力: 4.0MPa
- 3.适用温度: -46℃--+150℃
- 4.适用介质: 氨、氟、丙烷、CO2等

### Note / 注

- 1.常规阀门为对焊连接式, 也可提供丝口、插入焊、法兰等连接, 订货时请沟通说明
- 2.常规阀门为手轮式, 如需阀帽保护, 订货时需另外沟通说明

- 1.the conventional valve for welding links,can also provide wire mouth,insert welding and flange connection,please communicate instructions
- 2.the conventional valve for the hand wheel,such as the need to protect the valve cap,ordering the need for additional communication.

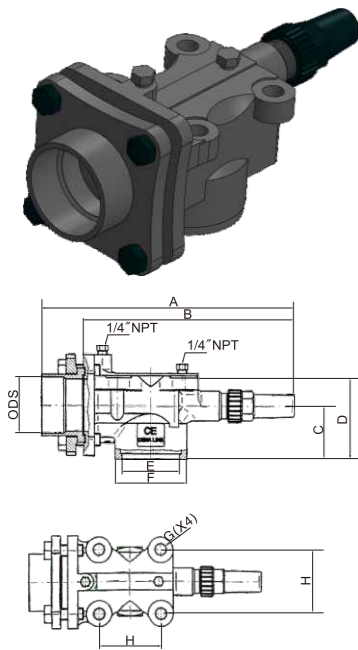
### Ball Valve/球阀



Model	ODS		SFERA	KV Δ P 1bar m³/h	L mm	H mm	A mm
	mm	inch.					
BLR/BVCO2-6	6		10	1.6	126	48	13
BLR/BVCO2-014		1/4"	10	1.6	126	48	13
BLR/BVCO2-038		3/8"	10	5.3	132	48	13
BLR/BVCO2-10	10		10	5.3	132	48	13
BLR/BVCO2-12	12		10	6.6	140	48	13
BLR/BVCO2-012		1/2"	10	6.6	140	48	13
BLR/BVCO2-15	15		16	13	146	60	19
BLR/BVCO2-16	16	5/8"	16	13	146	60	19
BLR/BVCO2-18	18		16	17	146	60	19
BLR/BVCO2-034		3/4"	16	17	146	60	19
BLR/BVCO2-22	22	7/8"	20	26	185	80	21
BLR/BVCO2-28	28		25	41	205	78	26
BLR/BVCO2-118		1 1/8"	25	41	205	78	26
BLR/BVCO2-35	35	1 3/8"	32	68	208	92	32
BLR/BVCO2-158		1 5/8"	38	100	240	112	39
BLR/BVCO2-42	42		38	100	240	112	39
BLR/BVCO2-54	54	2 1/8"	50	200	273	130	48

Maximum working pressure	PS 120 bar
Permissible temperature	TS -30/+150°C
Testing pressure	PT 172 bar

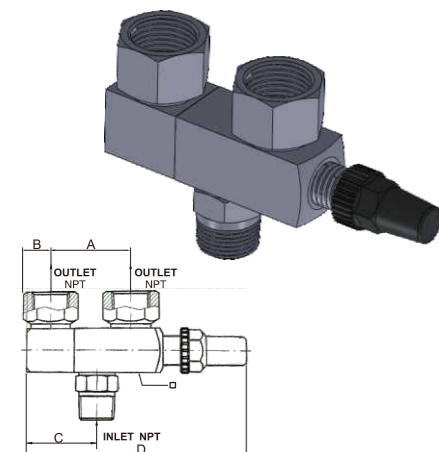
### Cast Iron Valve/铸铁阀



Model	ODS inch/mm	SIZE	A mm	B mm	C mm	D mm	E mm
BLR/VCO2-DN40138	1 3/8"	DN 40	238	205	46	68	54
BLR/VCO2-DN40158	1 5/8"						
BLR/VCO2-DN4042	42						
BLR/VCO2-DN40218	2 1/8"	DN 50	280	230	62	86	64.3
BLR/VCO2-DN50158	1 5/8"						
BLR/VCO2-DN50218	2 1/8"						
BLR/VCO2-DN50258	2 5/8"	DN 70	368	307	76	115	85.3
BLR/VCO2-DN70258	2 5/8"						
BLR/VCO2-DN70138	3 1/8"						
BLR/VCO2-DN70138	80						

Maximum Working pressure	PS 150 bar	PS 110 bar
Permissible Temperature	TS -10/+150°C	TS -40/+150°C
Testing pressure	PT 215 bar	
Refrigerant	GROUP 2 PED	
Surface treatment on request According to directive 97/23/CE		

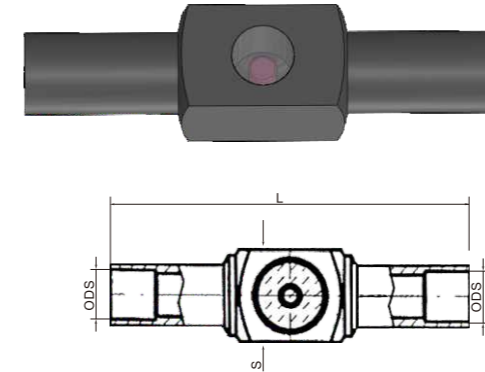
### Three-Way Dual Shut-Off Valve/三通截止阀



Model	□ mm	INLET NPT	OUTLETS NPT	C mm	D mm	E mm	F mm
BLR/TVCO2-01	□ 20	1/4"NPT	1/4"NPT	48	12	44	121
BLR/TVCO2-02		3/8"NPT	3/8"NPT	48	12	44	121
BLR/TVCO2-03	□ 22	1/2"NPT	3/8"NPT	55	14	50	144
BLR/TVCO2-04		1/2"NPT	1/2"NPT	55	14	50	144
BLR/TVCO2-05	□ 30	3/4"NPT	3/4"NPT	80	18	73	179
BLR/TVCO2-06	□ 35	1"NPT	1"NPT	110	22	96	247
BLR/TVCO2-07	□ 45	1 1/4"NPT	1 1/4"NPT	110	28	95	160

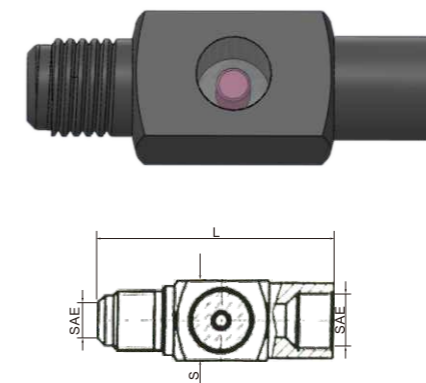
Maximum working pressure	PS 130 bar
Testing pressure	PT 186 bar
Permissible temperature	TS -30/+150°C
Refrigerant	GROUP 2 PED
Category PED	ARTICLE 3.3
Surface treatment: Tin plated	

### Sight Glass/视液镜



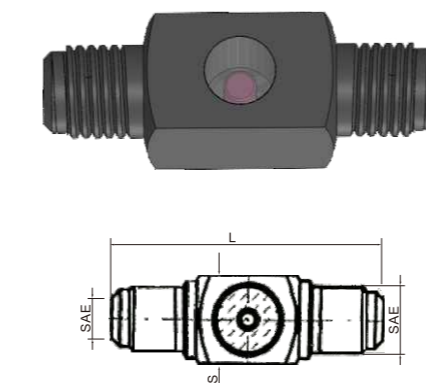
### ODS Solder

Model	ODS		L mm	S mm	Weight gr.
	mm	inch			
BLR/SGCO2-06S	6		115	22	155
BLR/SGCO2-07S		1/4"	115	22	155
BLR/SGCO2-08S	8		115	22	160
BLR/SGCO2-09S		3/8"	115	22	160
BLR/SGCO2-10S	10		115	22	160
BLR/SGCO2-12S	12		120	22	180
BLR/SGCO2-13S		1/2"	120	22	180
BLR/SGCO2-16S	16	5/8"	125	22	200
BLR/SGCO2-18S	18		140	30	280
BLR/SGCO2-19S		3/4"	140	30	270
BLR/SGCO2-22S	22		150	30	360
BLR/SGCO2-23S		7/8"	150	30	360
BLR/SGCO2-28S	28		160	35	500
BLR/SGCO2-29S		1 1/8"	160	35	500



### MALE Flare

Model	SAE Flare	UNF/UNS Thread	L mm	S mm	WEIGHT gr.
BLR/SGCO2-14	1/4"	7/16"-20	72	22	145
BLR/SGCO2-38	3/8"	5/8"-18	77	22	150
BLR/SGCO2-12	1/2"	3/4"-16	82	22	170
BLR/SGCO2-58	5/8"	7/8"-14	90	30	245
BLR/SGCO2-34	3/4"	1 1/16"-14	95	30	330



### MALE & FEMALE FLARE

Model	SAE Flare	UNF/UNS Thread	L mm	S mm	WEIGHT gr.
BLR/SGCO2-MF14	1/4"	7/16"-20	68	22	145
BLR/SGCO2-MF38	3/8"	5/8"-18	73	22	160
BLR/SGCO2-MF12	1/2"	3/4"-16	78	30	255
BLR/SGCO2-MF58	5/8"	7/8"-14	85	30	280
BLR/SGCO2-MF34	3/4"	1 1/16"-14	93	35	430

Maximum Working pressure	PS 120bar	PS 90bar
Permissible Temperature	TS-10/+110°C	TS-40/+110°C
Testing pressure	PT 172 bar	
Refrigerant	GROUP 2 PED	
Category PED	ARTICLE 3.3	
Surface Treatment: tin plated		



### General Description/描述

BLR/TPH Pressure Hose & Fitting are widely used in aviation, aerospace, transportation facility, fork truck, engineering machinery, auto, stage lift, air, painting and other mechanical fields.

BLR/TPH压力软管及接头广泛地应用于航空、航天、交通设施、叉车、工程机械、汽车、阶段、空气、绘画和其他机械领域。

### Specification/参数

- ◆ Inner Layer: Nylon Pa 12
  - ◆ Outer layer: Polyurethane (TPU)
  - ◆ Temperature: -40 to +130 °C
  - ◆ Enhancement layer: Polyester fiber (Industrial yarn)
  - ◆ Color available: black, blue, red, gray, orange.
- ◆ 内层: 尼龙Pa12
  - ◆ 外层: 聚氨酯 (TPU)
  - ◆ 温度: -40 to +130 °C
  - ◆ 增强层: 聚酯纤维 (工业纱)
  - ◆ 可供选择的颜色: 黑色、蓝色、红色、灰色、橘色。

### Technical Data/技术参数

Model 型号	Color 颜色	Inner Dia. 内径 (mm)	Outer Dia. 外径 (mm)	Tolerance 误差 (mm)	Min. Bending Radius 最小弯曲半径 (mm)	Working Pressure 工作压力 (bar/psi)	Weight 重量 (g/m)
BLR/TPH02	Available on Request	2	5.9	0.1	10	45/653	30
BLR/TPH04	Available on Request	4	8.2	0.1	35	45/653	50
BLR/TPH06	Available on Request	6	10.9	0.1	35	45/653	70

### Application/应用



### Instructions for Manual Assembling of 2mm Capillary Hose

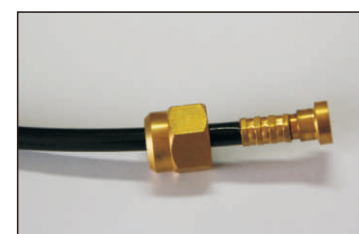
2毫米压力软管的手动使用说明



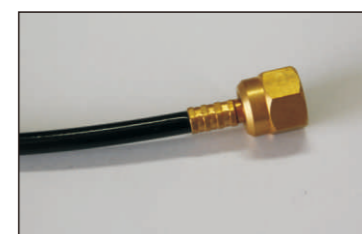
1. Cut the hose using proper shears, automatic or manual cutters. The cut must be perfectly square and smooth.

2. Insert the sleeve on the hose with the groove towards the hose side to be assembled.

3. Insert the nut onto the hose



4. Push the insert inside the hose.



5. Make the nut slide onto the external part of the insert (flare) and push the sleeve till it covers the bottom of the free insert.



6. Assemble the hose by positioning manual pliers on the sleeve covering its whole surface. Crimp till hand pliers open automatically. A second crimping is useful to obtain a safer assembling.

Item 品名	Model 型号	Specification 参数	Picture 图片
Straight Connector	BLR/TPH-S02(B)	For DN2 Hose, ID: 2.0MM	
Elbow Connector	BLR/TPH-E02(B)	For DN2 Hose, ID: 2.0MM	
T Connector	BLR/TPH-T02	For DN2 Hose, ID: 2.0MM	
T Connector (Middle with Nut)	BLR/TPH-T02M(B)	For DN2 Hose, ID: 2.0MM	
T Connector (Side with Nut)	BLR/TPH-T02R(B)	For DN2 Hose, ID: 2.0MM	
Straight Connector	BLR/TPH-S04R(B)	For DN4 Hose, ID: 4.0MM	
Elbow Connector	BLR/TPH-E04(B)	For DN4 Hose, ID: 4.0MM	
T Connector	BLR/TPH-T04	For DN4 Hose, ID: 4.0MM	
T Connector (Middle with Nut)	BLR/TPH-T04M(B)	For DN4 Hose, ID: 4.0MM	
T Connector (Side with Nut)	BLR/TPH-T04R(B)	For DN4 Hose, ID: 4.0MM	
Gasket	BLR/THP-02G	(for DN2, DN4, DN6 Hose)	
Needle	BLR/THP-02N	(for DN2, DN4, DN6 Hose)	
Hand Crimper	BLR/MHC02A	(for DN2 Hose)	
Manual Hand Crimper	BLR/MHC04A	(for DN4, DN6 Hose)	
Manual Hand Crimper Kit	BLR/HHC04CKA	(for DN4, DN6 Hose)	
DC Electric Hand Crimper	BLR/HHC04B	(for DN4, DN6 Hose)	
DC Electric Hand Crimper Set	BLR/HHC04CKB	(for DN4, DN6 Hose)	
Tube Cutter	BLR/TC02A	(for DN2, DN4, DN6 Hose)	
Pressure Hose With Fittings (two Side Straight)	BLR/TPHS-60	Hose Length: 60cm, DN2 Connection: Straight	
Pressure Hose With Fittings (two Side Straight)	BLR/TPHS-90	Hose Length: 90cm, DN2 Connection: Straight	
Pressure Hose With Fittings (two Side Straight)	BLR/TPHS-120	Hose Length: 120cm, DN2 Connection: Straight	
Pressure Hose With Fittings (one Straight, one Elbow)	BLR/TPHSE-60	Hose Length: 60cm, DN2 Connection: Elbow and Straight	
Pressure Hose With Fittings (one Straight, one Elbow)	BLR/TPHSE-90	Hose Length: 90cm, DN2 Connection: Elbow and Straight	
Pressure Hose With Fittings (one Straight, one Elbow)	BLR/TPHSE-120	Hose Length: 120cm, DN2 Connection: Elbow and Straight	
Pressure Hose With Fittings (two Side Straight)	BLR/TPHE-60	Hose Length: 60cm, DN2 Connection: Elbow	
Pressure Hose With Fittings (two Side Straight)	BLR/TPHE-90	Hose Length: 90cm, DN2 Connection: Elbow	
Pressure Hose With Fittings (two Side Straight)	BLR/TPHE-120	Hose Length: 120cm, DN2 Connection: Elbow	

Note: we can do customize according to customer's requirements with any length and any fitting you want.  
注: 我们可以根据客户要求定制您所需要的长度及接头

### General Description/描述

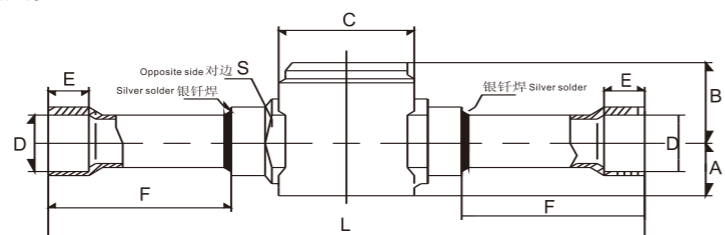
BLR/SGN Series Sight Glasses are used in Refrigeration and AC System Liquidline used to indicate the humidity rate and Refrigeration Flow Direction. It has a humidity indicator to show the humidity rate of refrigerant by changing color of the indicator. Using PTFE sealing material suitable for different refrigerant and refrigerant oil, and with good capacity of sealing. Also using explosion-proof pressing connection, it is easy to watch and safe.

BLR/SGN 型视液镜用于制冷、空调装置的液体管路上，用来指示制冷剂的流动状况、制冷剂中的含水量及油分离器回油管路中润滑油的流动状况。它带有一潮湿指示器，通过改变颜色来指示制冷剂中的含水量。使用改性PTFE密封材料，适用于多种制冷剂及冷冻油，又具有好的密封性能。并且采用防爆压接的结构，观察窗清晰而安全。

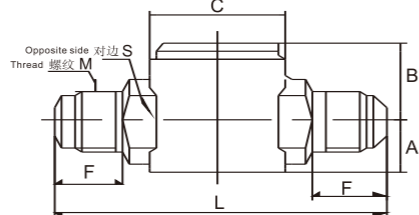
### Feature/特点

- ◆ Suitable for HCFC/HFC
- ◆ Used to indicate the rate of humidity of refrigerant
- ◆ Refrigerant liquid is without super-cooling indicate
- ◆ Used to indicate refrigerant not enough
- ◆ Two way of connection: Solder & SAE.

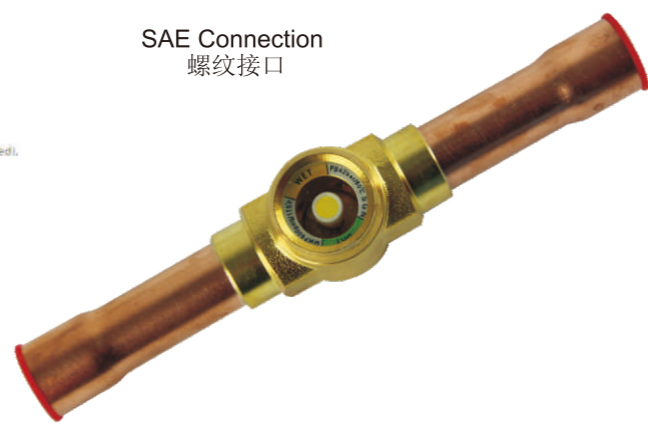
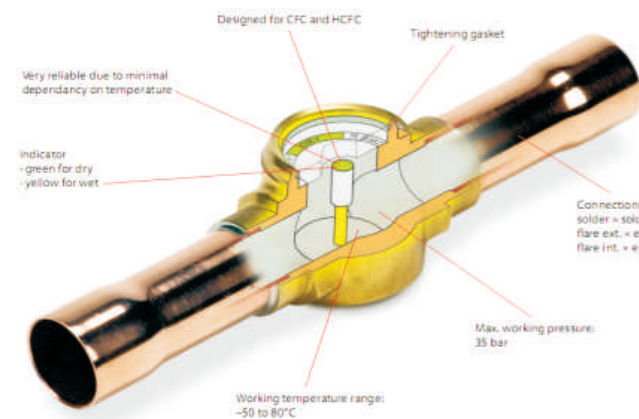
- ◆ 用于HCFC/HFC制冷剂
- ◆ 指示系统中过高的含水量
- ◆ 制冷剂液体无过冷度指示
- ◆ 制冷剂充注量不足指示
- ◆ 焊口、螺口两种接口。



ODF Connection  
焊接口



SAE Connection  
螺纹接口



### Technical Data/技术参数

Model 型号	Connection 接口	Dimension (mm) 尺寸 (毫米)								Thread 螺纹(M)	Weight 重量(g)	
		A	B	ΦC	ΦD	E	F	L	S			
BLR/SG-014S	1/4 ODF	8.5	14.5	26.5	6.5	7	27	100	14	-	96	
BLR/SG-014	1/4 SAE				-	-	14	64		7/16-20UNF		100
BLR/SG-038S	3/8 ODF				10.1	8	36	118		-		105
BLR/SG-038	3/8 SAE	11.5	16.5	26.5	-	-	17	70	19	5/8-18UNF	110	
BLR/SG-012S	1/2 ODF				12.8	10	46	144		-		150
BLR/SG-012	1/2 SAE				-	-	19	78		3/4-16UNF		165
BLR/SG-058S	5/8 ODF	13	18	26.5	16.1	14	49	150	22	-	185	
BLR/SG-058	5/8 SAE				-	-	20	78		7/8-14UNF		188
BLR/SG-034S	3/4 ODF				19.1	16	51	166		-		240
BLR/SG-034	3/4 SAE	14	20	31.5	-	-	23	94	24	1-1/16-14UNF	285	
BLR/SG-078S	7/8 ODF				22.3	17	54	172		-		290

Item 描述	Model 型号	Connection 接口	Picture 图片
Double Head Sight Glass with Solder Connection	BLR/DSGN 22	7/8"	
	BLR/DSGN-28	1-1/8"	
	BLR/DSGN-35	1-3/8"	
	BLR/DSGN-42	1-5/8"	
	BLR/DSGN-54	2-1/8"	
Male & Female Connection Combined Sight Glass (F: Means Male Flare M: Means O Ring Connection)	BLR/SGN-038FM	3/8	
	BLR/SGN-012FM	1/2	
O ring & Female SAE Combined Sight Glass (MF: Means Male Flare O: Means O Ring Connection)	BLR/SGN-9/16"FMO	9/16"Female SAE	
	BLR/SGN-11/16"FMO	11/16"Female SAE	
	BLR/SGN-3/8"FMO	3/8 Female SAE	
	BLR/SGN-1/2"FMO	1/2 Female SAE	
Sight Glass Screw Head for Sight Glass	BLR/SGNH-1/4	1/4	
	BLR/SGNH-3/8	3/8	
	BLR/SGNH-1/2	1/2	
	BLR/SGNH-5/8	5/8	
	BLR/SGNH-3/4	3/4	
Sight Glass Screw Head for Receiver & Oil Reservoir	BLR/SGN-1/2 NPT	1/2" NPT SW27	
	BLR/SGN-3/4 NPT	3/4" NPT SW30	
	BLR/SGN-G1/2	G1/2"	
	BLR/SGN-G3/4	G3/4"	



### General Description/描述

- ◆ The pressure gauge is a vibration-proof pressure gauge with oil filled inside for refrigeration use only.
- ◆ The oil-filled pressure gauge is used on freezer, cold store and air-conditioning unit.
- ◆ The oil-filled pressure gauge is convenient in application as it features one gauge for multiple refrigerants.
- ◆ The oil-filled pressure gauge has full stainless steel casing and wider beryllium bronze spring tube.
- ◆ The oil-filled pressure gauge is an axial pressure gauge with edges for flange joint.

- ◆ 充油压力表是内部充油的制冷专用的抗振压力表
- ◆ 充油压力表用于冷冻、冷藏空气调节装置的机组上
- ◆ 充油压力表由多种制冷剂共组一表，方便使用
- ◆ 充油压力表使用全不锈钢表壳、超宽铍青铜弹簧管
- ◆ 充油压力表为法兰安装边的轴向压力表

### Feature/特点

- ◆ The inside filled oil functions damping to the high frequency vibration of machinery.
- ◆ The damping oil cup prevents gauge pointer from jumping.
- ◆ The flanged edge is for convenient mounting.
- ◆ Over-pressure limit stop is equipped.
- ◆ Zero error is ensured with strengthening overpressure measures.
- ◆ Rational oil seal design and no oil leakage worry.
- ◆ Pressure versus Temperature readings for easy use.
- ◆ Extra long service life.

- ◆ 内部充油可抗机组的高频振动
- ◆ 经强化超压确保零位误差
- ◆ 带阻尼油杯可防指针快速跳动
- ◆ 合理的油封设计无漏油隐患
- ◆ 带法兰安装边方便安装
- ◆ 设有压力温度对照
- ◆ 设有超压限位装置
- ◆ 具有超长的使用寿命



### Technical Data/技术参数

适用制冷剂 Applicable Refrigerant	HCFC and HFC
适用介质温度 Applicable Medium Temperature	-15 to +120°C
接口尺寸 Connection Size	1/4 SAE
结构型式 Structure	Axial concentrically-embedd 轴向同心嵌装式
外壳公称直径 Casing Nominal Diameter	2.5 in (Φ63.5)
精度等级 Accuracy Class	Class 1.6 (1.6级)

### Technical Data/技术参数

Model	Connection Size	Body Casing Diameter	Refrigerant
○BLR/OPG-63	○1/8" NPT	○63mm	○R22
○BLR/OPG-60	○1/4" SAE	○60mm	○R404A
			○R407C
			○R134A
			○R410

Connection Direction	Working Pressure	Flange Style
○Radial Direction	○0~500 Psi	○Front Flange Edge
○Axial Direction	○-30~250 Psi	○Back Flange Edge
		○Without Flange

### General Description/描述

The vibration clamping bellows are connection tube for vibration resistance, which could be used to prevent tube from cracking due to high frequency vibration.

The vibration damping bellows are used as air suction and exhaust tube of compressor in the freezer, cold store and air conditioning unit.

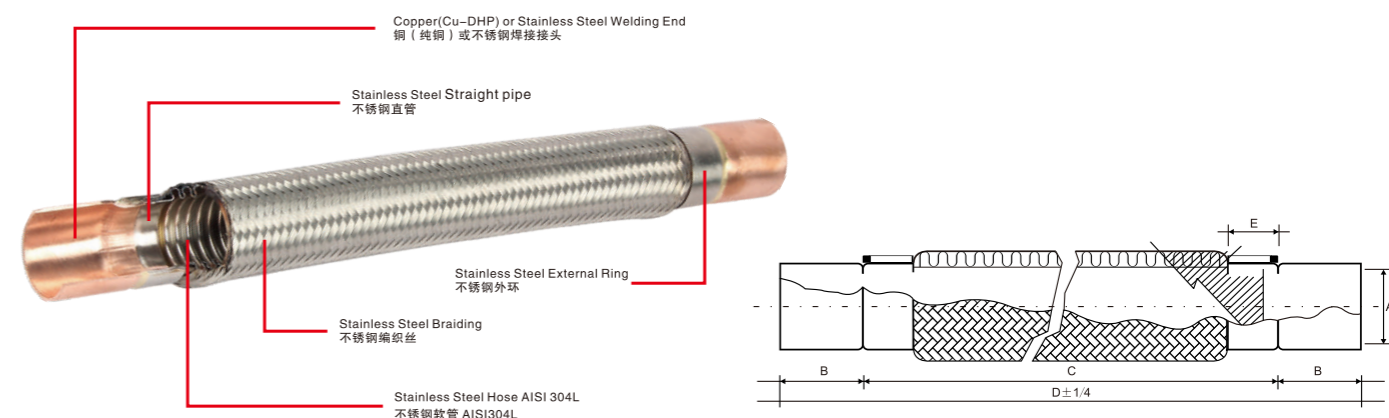
BLR/VA 型避震管是用来减震的连接管，可以防止管路因高频震动引起的开裂。

BLR/VA 型避震管用于冷冻、冷藏和空气调节装置的压。

### Feature/特点

- ◆ Made of full stainless steel bellows.
- ◆ Applicable refrigerant: CFC, HCFC and HFC.
- ◆ ODS connection and various lengths are available.
- ◆ Applicable medium temperature: -40 to +150°C.

- ◆ 采用全不锈钢波纹管制作
- ◆ 适用于制冷剂: CFC, HCFC and HFC.
- ◆ ODS接口，有各种长度的尺寸可提供
- ◆ 适用介质温度: -40 to +150°C.



### Technical Data/技术参数

Model 型号	Connection 接口		Dimensions (mm) 尺寸 (毫米)					M.W.P. Working Pressure 工作压力		Burst Pressure 爆破压力	
	mm	Inch	A (I.D)	B (±3)	C (±3)	D (±6)	E (±1.5)	Psig	Kgf/m²	Psig	Kgf/m²
BLR/VA-038(m) BLR/VAS-038(m)	10	3/8	9.62	20	177.5	217.5	13	500	35	2500	50
BLR/VA-012(m) BLR/VAS-012(m)	12	1/2	12.8	20	188.6	228.6	13	500	35	2500	50
BLR/VA-058(m) BLR/VAS-058(m)	16	5/8	16.2	22	206.8	250.8	17	500	35	2500	50
BLR/VA-034(m) BLR/VAS-034(m)	19	3/4	19.2	28	212.3	268.3	17	500	35	25000	50
BLR/VA-078(m) BLR/VAS-078(m)	22	7/8	22.5	30	244.8	304.8	18	500	35	2500	50
BLR/VA-118(m) BLR/VAS-118(m)	28	1-1/8	28.8	38	255.3	331.3	20	500	35	2500	50
BLR/VA-138(m) BLR/VAS-138(m)	35	1-3/8	35.3	40	315	395	22	500	35	2500	50
BLR/VA-158(m) BLR/VAS-158(m)	41	1-5/8	41.7	50	328.6	428.6	23	500	35	2500	50
BLR/VA-218(m) BLR/VAS-218(m)	54	2-1/8	54.5	60	403.8	523.8	23	390	30	1950	40
BLR/VA-258(m) BLR/VAS-258(m)	66	2-5/8	67	76	465.5	617.5	25	340	25	1700	30
BLR/VA-318(m) BLR/VAS-318(m)	79	3-1/8	79.6	85	514.2	684.2	25	300	20	1500	30
BLR/VA-358(m) BLR/VAS-358(m)	92	3-5/8	92.5	100	617.5	817.5	25	175	15	525	25
BLR/VA-418(m) BLR/VAS-418(m)	105	4-1/8	104.9	110	616.6	836.6	25	175	15	525	25

Note: VA means copper connection, VAS means steel connection  
注意: VA表示铜接口, VAS表示不锈钢接口

### Features/特点

- ◆ This product is used as pressure control or pressure protection. When the system reaches the set value, the switch turns on/off automatically.
- ◆ Except for automatic reset, the manual reset at high voltage end as well as both high and low voltage are available.
- ◆ The circuit connected inside the pressure controller that integrates the high and low pressure ends as one unit is applicable for various kinds of refrigeration systems.
- ◆ Pressure and pressure-difference adjusting with the graduate are furnished.
- ◆ Suitable mediums are compressed air, Freon, water and oil, etc.
- ◆ The connector adopts the standard flare type with M12\*1.25 thread.
- ◆ Medium temperature: -20~+120°C; Environment te

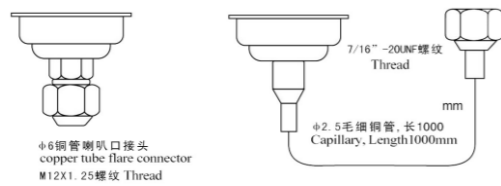
- ◆ 本产品用作压力控制和压力保护，当系统压力到设定值时，开关自动切断（或接通）电路；
- ◆ 除自动复位型外，还备有高压手动复位型，高低压手动复位型；
- ◆ 高低压端集一体的压力控制器其内部连接的开关线路适合于各种制冷系统；
- ◆ 具有刻度指示的压力和压差调节；
- ◆ 压力和压差调节精度高，重复动作稳定；
- ◆ 适用介质为压缩空气、氟里昂、水、油等；
- ◆ 接头为标准的喇叭口接口、M12\*1.25螺纹；
- ◆ 介质温度：-20至+120°C、环境温度：-20至+70°C；



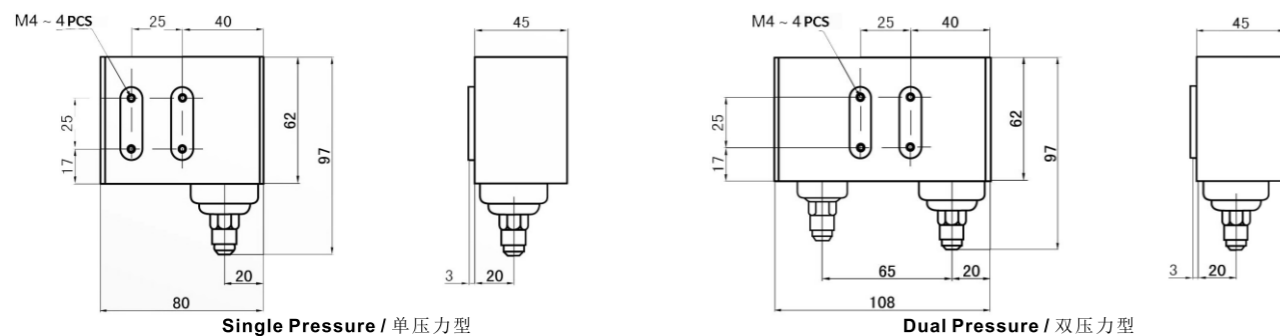
### Electric rating 电气指标

Rated voltage (V) 额定电压		Power 功率 COSφ	125V	250V
Rated current (A) 额定电流			AC	AC
Non-induction current 非感应电流		1	15	15
Induction current 感应电流	Constant 恒定电流	0.75	3.5	2.5
	Transient 瞬时电流	0.75	21	15

### Form of connectors 接头连接形式



### Mounting Dimension / 安装尺寸



Single Pressure / 单压力型

Dual Pressure / 双压力型

### Technical Parameter 技术参数

#### Single Pressure / 单压力型

Model 型号	Pressure setting range 压力调节范围	Differential setting 差动调节		Set point 设定值	Contacts demonstration 接点形式	Description 说明
		Mini~Max 大小	Type 形式			
BLR/SPC-106	-0.065~0.6	0.06~0.4	Auto reset 自动复位	0.2~0.3		① Common contact ①-③ Close on pressure rise ①-⑤ Close on pressure drop M Manual reset ① 公共触点 ①-③ 压力上升时接通 ①-⑤ 压力下降时接通 M 手动复位
BLR/SPC-110	0.1~1	0.1~0.3		0.4~0.6		
BLR/SPC-120	0.5~2	0.2~0.5		1.2~1.5		
BLR/SPC-130	0.5~3	0.3~1	Manual reset 手动复位	2.0~2.5		① Common contact ①-③ Close on pressure rise ①-⑤ Close on pressure drop M Manual reset ① 公共触点 ①-③ 压力上升时接通 ①-⑤ 压力下降时接通 M 手动复位
BLR/SPC-106M	-0.065~0.6	Act & self lock when pressure decreasing 压力下降时动作并自锁		0.2 ←		
BLR/SPC-110M	0.1~1			0.5 ←		
BLR/SPC-120M	0.5~2			1.4 ←		
BLR/SPC-130M	0.5~3		2.0 ←			
BLR/SPC-130HM	0.5~3	Act & self lock when pressure decreasing 压力上升时动作并自锁	Manual reset 手动复位	→ 2		① Common contact ①-③ Close on pressure drop ①-⑤ Close on pressure rise M Manual reset ① 公共触点 ①-③ 压力下降时接通 ①-⑤ 压力上升时接通 M 手动复位

#### Dual Pressure / 双压力型

Model 型号	Pressure setting range 压力调节范围	Differential setting 差动调节		Set point 设定值	Contacts demonstration 接点形式	Description 说明
		Mini~Max 大小	Type 形式			
BLR/DPC-606	Low pressure 低压端 -0.065~0.6	0.06~0.4	Auto reset 自动复位	0.2~0.3		L: Low pressure side H: High pressure side M: Manual reset ↑: Increase of pressure ↓: Decrease of pressure
	High pressure 高压端 0.8~3	0.4	Fixed 固定	1.6~2		
BLR/DPC-606HM	Low pressure 低压端 -0.065~0.6	0.06~0.4	Auto reset 自动复位	0.2~0.3		L: Low pressure side H: High pressure side M: Manual reset ↑: Increase of pressure ↓: Decrease of pressure
	High pressure 高压端 0.8~3	Act & self lock when pressure increasing 压力上升时动作并自锁	Manual reset 手动复位	→ 2		
BLR/DPC-606LHM	Low pressure 低压端 -0.065~0.6	Act & self lock when pressure decreasing 压力下降时动作并自锁	Manual reset 手动复位	→ 0.2		L: Low pressure side H: High pressure side M: Manual reset ↑: Increase of pressure ↓: Decrease of pressure
	High pressure 高压端 0.8~3	Act & self lock when pressure increasing 压力上升时动作并自锁	Manual reset 手动复位	→ 2		



**General Description / 描述**

**Features /特点**

- ◆ This product is used as pressure difference control. When the system reaches the set value, the switch turns on/off the electricity automatically.
- ◆ Pressure and pressure-difference adjusting with the graduate are furnished.
- ◆ It adopts both types of the automatic reset and manual reset.
- ◆ The time delay function is furnished, marking it become oil cut-off protection from compressors.
- ◆ Suitable mediums are compressed air, Freon, water and oil, etc.
- ◆ The connector adopts the standard flare type with M12\*1.25thread.
- ◆ Medium temperature: -20~+120°C; Environment temperature: -20~+70°C.

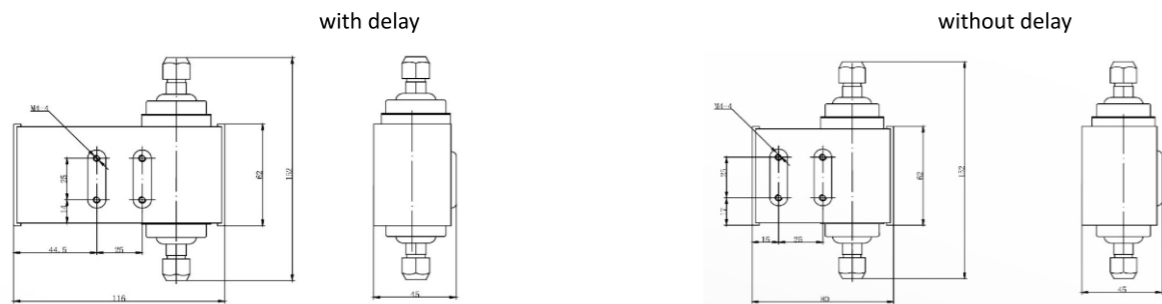
- ◆ 本产品用于压力差的控制，当压差到达设定值时，开关自动切断（或接通）电路。
- ◆ 具有刻度指示的压力差，控制器的压力差可调。
- ◆ 产品具有自动复位和手动复位型二种型式。
- ◆ 带有延时功能的产品能用于压缩机的断油保护。
- ◆ 适用介质为压缩空气、氟利昂、水、油等。
- ◆ 接头为标准的喇叭口接口，M12\*1.25螺纹。
- ◆ 介质温度：-20~+120°C；环境温度：-20~+70°C。



**Electric rating 电气指标**

Rated voltage(V)额定电压	Rated current(A) 额定电流	Power功率 COSΦ	125V AC	250V AC
			Non-induction current 非感应电流	1
Induction current 感应电流	Constant 恒定电流	0.75	12	12
	Transient 瞬时电流	0.75	72	72

**Mounting Dimension / 安装尺寸**



**Technical data 技术参数**

Model 型号	Pressure-diff. Setting range(Mpa) 压差调节范围	Action difference (Mpa) 开关动作差	Time-delay (s) 延时时间 (秒)	Set value (Mpa) 设定值	MOP (Mpa) 最大工作压力	Weight (kg)
BLR/PDC-105	0.05~0.35	0.05	None	0.1	1.5	0.43
BLR/PDC-105T			45、60、90、120			
BLR/PDC-120	0.05~0.35	0.05	None	0.1	3	
BLR/PDC-120T			45、60、90、120			



**Features**

- High Pressure SPST open on pressure rise
- Low pressure SPST open on pressure fall
- Condenser Fan Cycling SPST open on Pressure rise
- Temperatures: Ambient 20° F to 176° F (-30°C to 80°C), Fluid 60° F to 250° F (-50°C to 120°C)
- Rated Voltage: 50/60 Hz, 24/120/240 Volts (6RLA, 36LRA)
- Pressure Range: 0 to 650 PSI
- Burst pressure: 5000 PSI

**LOW PRESSURE**

MODEL	OPEN PSL	CLOSE PSI	TOLERANCE	KLIXON	MARS	A-1	RANCO	ROBERTSHAW	JOHNSON CONTROL	GLOBAL
BLR-LP0520	5	20	±5 PSI	PS80-K2-F0305-020-005	33329	PS-LP05-20	MPL-7001	3101-001	P100AC-1C	GLP329
BLR-LP0530	5	30	±5 PSI	N/A	N/A	N/A	N/A	3100-002, MG20-1132	N/A	N/A
BLR-LP1025	10	25	±5 PSI	PS80-K2-F0307-025-005	33330	PS-LP10-25	MPL-7011	3100-050	P100AP201C	GLP330
BLR-LP1535	15	35	±5 PSI	PS80-K2-F0312-035-005	33333	N/A	MPL-7002	3100-001, MG20-1026	P100AC2	N/A
BLR-LP2045	20	45	±5 PSI	N/A	N/A	N/A	N/A	3100-001, MG20-1133	N/A	N/A
BLR-LP2550	25	50	±5 PSI	PS80-K2-F0316-050-005	33362	PS-LP25-50	MPL-7012	MG21-2033	N/A	GLP362
BLR-LP2565	25	65	±5 PSI	PS80-K2-F0323-065-005	33336	N/A	N/A	3101-002	N/A	N/A
BLR-LP2580	25	80	±5 PSI	PS80-K2-F0325-080-005	33363	PS-LP25-80	MPL-7003	3101-003, 3100-051	N/A	GLP363
BLR-LP3560	35	60	±5 PSI	N/A	N/A	N/A	MPL-7004	3100-004, MG20-1593	N/A	N/A
BLR-LP4560	45	60	±5 PSI	N/A	N/A	N/A	MPL-7005	N/A	P100AP2C	N/A
BLR-LP4080	40	80	±5 PSI	PS80-K2-F0326-080-005	33364	PS-LP40-80	MPL-7014	3101-005, 3100-052	N/A	GLP364
BLR-LP5090	50	90	±5 PSI	PS80-K2-F0328-090-005	33339	N/A	N/A	N/A	N/A	N/A
BLR-LP75100	75	100	±5 PSI	N/A	N/A	N/A	N/A	N/A	N/A	GLP342410A
BLR-LP90120	90	120	±5 PSI	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**HIGH PRESSURE**

MODEL	OPEN PSL	CLOSE PSI	TOLERANCE	KLIXON	MARS	A-1	RANCO	ROBERTSHAW	JOHNSON CONTROL	GLOBAL
BLR-HP200150	200	150	±15 PSI	PS80-K1-0334-200-150	33353	PS-HP200-150	N/A	N/A	N/A	GHP353
BLR-HP250150	250	150	±15 PSI	PS80-K1-0336-250-150	33354	PS-HP250-150	N/A	N/A	N/A	GHP354
BLR-HP250180	250	180	±15 PSI	N/A	N/A	N/A	MPH-7101	N/A	N/A	N/A
BLR-HP275195	275	195	±15 PSI	PS80-K1-0339-275-195	33310	N/A	MPH-7102	3100-112	3100-112	N/A
BLR-HP300200	300	200	±15 PSI	PS80-K1-0341-300-200	33355	PS-HP300-200	MPH-7103	N/A	N/A	GHP355
BLR-HP325225	325	225	±15 PSI	N/A	N/A	N/A	MPH-7104	N/A	N/A	N/A
BLR-HP325230	325	230	±15 PSI	PS80-K1-0346-325-230	33313	N/A	N/A	N/A	N/A	N/A
BLR-HP350250	350	250	±15 PSI	PS80-K1-0348-350-250	33356	PS-HP350-250	MPH-7105	3101-201, 3100-151, 6	N/A	GHP356
					33316			MG21-1125		
BLR-HP375265	375	265	±15 PSI	PS80-K1-0353-375-265	33319	N/A	MPH-7106	3100-111	N/A	N/A
BLR-HP400200	400	200	±15 PSI	PS80-K1-0357-400-200	33357	PS-HP400-200	N/A	3100-152	N/A	GHP357
BLR-HP400280	400	280	±15 PSI	PS80-K1-0358-400-280	33322	N/A	N/A	N/A	N/A	N/A
BLR-HP400300	400	300	±15 PSI	PS80-K1-0359-400-300	33358	PS-HP400-300	MPH-7107	3101-202, 3100-203	P100CA-1C/	GHP358
								MG21-112	P100CP1C	
BLR-HP425300	425	300	±15 PSI	PS80-K1-0360-425-300	33325	N/A	N/A	N/A	N/A	N/A
BLR-HP425325	425	325	±15 PSI	N/A	N/A	N/A	MPH7108	3100-100/3100-203,	P100CA-2C/	N/A
								MG21-1046	P100CP2C	
BLR-HP450250	450	250	±15 PSI	PS80-K1-0363-450-250	33359	PS-HP450-250	N/A	N/A	N/A	GHP359
BLR-HP600475	600	475	±15 PSI	N/A	N/A	N/A	N/A	N/A	N/A	GHP36140A
BLR-HP610420	610	420	±15 PSI	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**FAN CYCLING LP**

MODEL	OPEN PSL	CLOSE PSI	TOLERANCE	KLIXON	MARS	A-1	RANCO	ROBERTSHAW	JOHNSON CONTROL	GLOBAL
BLR-FC75120	75	120	±15 PSI	N/A	N/A	N/A	MPF7006	N/A	N/A	N/A
BLR-FC110170	110	170	±15 PSI	N/A	N/A	N/A	MPF7007	N/A	N/A	N/A
BLR-FC125265	125	265	±15 PSI	20PS116KA264G126G	33340	N/A	N/A	N/A	N/A	N/A
BLR-FC210275	210	275	±15 PSI	20PS107KA275H210K	33341	N/A	MPF-7009	3101-101, 3100-079	N/A	GFC341
BLR-FC150225	150	225	±15 PSI	N/A	N/A	N/A	MPF-7008	N/A	P100AP3C	N/A
BLR-FC170250	170	250	±15 PSI	N/A	N/A	N/A	N/A	N/A	P100AP4C	N/A
BLR-FC200240	200	240	±15 PSI	N/A	N/A	N/A	N/A	3100-080	N/A	N/A
BLR-FC200365	200	365	±15 PSI	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BLR-FC300400	300	400	±15 PSI	N/A	N/A	N/A	MPF7010	N/A	N/A	N/A

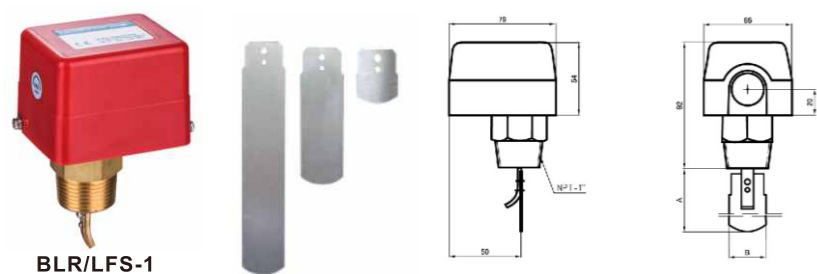
**Manual Reset High Pressure Switches**

MODEL	OPEN PSL	TOLERANCE	KLIXON	MARS	A-1	RANCO	ROBERTSHAW	TECUMSEH	JOHNSON CONTROL	GLOBAL
BLR-MR375	375	±15 PSI				MPH7109			P100DC3C	
BLR-MR410	410	±15 PSI	29PSL012-24	33350	PSMF-HP410	MPH7110	3101-301	N/A	P100DDA-1C	
								3100-103		
BLR-MR440	440	±15 PSI	N/A		N/A	N/A	3100-104	N/A	N/A	
BLR-MR610	610	±15 PSI								N/A

### Features/特点

- ◆ This product is used as flow control or cutoff protection of the liquid in pipelines. When the flow reaches the set volume, the switch turns on/off automatically.
- ◆ The set volume is adjustable and repeat working point operates stable.
- ◆ Suitable mediums are water, oil, glycol and other non-hazardous liquid, etc.
- ◆ The connector of piping adopts the standard 1 inch NPT feature with thread as well as other special specifications with thread.
- ◆ Maximum working pressure: 1 Mpa
- ◆ Five paddles are furnished to fit with pipes of different diameters.
- ◆ Medium temperature: 0~120°C

- ◆ 本产品用作管道内流体流量的控制或断流保护，当流体流量到达设定值时，开关自动切断（或接通）电路；
- ◆ 流量控制值可调，重复动作点稳定；
- ◆ 适用介质为水、油、乙二醇或其它危害性液体等；
- ◆ 接头为标准的NPT 1英寸管螺纹及其它特殊规格管螺纹；
- ◆ 最大工作压力为1Mpa；
- ◆ 备有5片流向片，配装各种口径的管道；
- ◆ 介质温度：0至120°C。



BLR/LFS-1

Fitting size / 配件尺寸

NO	A(mm)	B(mm)
1	35	27
2	60	27
3	88	27
4	121	27
5	150	27

### Electric rating 电气指标

Rated voltage (V) 额定电压	Rated current(A) 额定电流	Power 功率 COSφ	125V AC	250V AC
			Non-induction current 非感应电流	1
Induction current 感应电流	Constant 恒定电流	0.75	3.5	2.5
	Transient 瞬时电流	0.75	21	15

### Technical data 技术参数

Model 型号	Piping Dimension 配管尺寸 (Inch)	Flow adjusting range when switch operating (L/min) 开关动作时的流量调节范围			
		Minimum adjustment 最小调节		Maximum adjustment 最大调节	
		Flow decreasing 流量减少	Flow increasing 流量增加	Flow decreasing 流量减少	Flow increasing 流量增加
BLR/LFS-1	1	18	21	45	50
	1-1/2	30	35	100	105
	2	50	58	150	155
	1-1/2	75	86	187	200
	3	100	115	225	260
	4	110	154	317	337
	5	170	236	462	490
	6	225	308	562	599
8	707	854	1664	1727	

### Other Option 其他选择



BLR/LFS-2



BLR/LFS-3

### Advantages of products

The pressure sensor is with high accuracy. The pressure sensor is very reliability. It can still keep high-performance and stable under high temperature and high pressure. "Simple and reliable process, easy to mass production"

### Leading in technology

MEMS pressure chip technology with independent intellectual property rights. Proprietary eutectic bonding package and back pressure sensing technology. "High automation level of production line, excellent process and production efficiency". We are one of the few companies in the world that master the temperature and pressure integrated sensor product technology, realizing the single product integration of temperature and pressure.

### Technical Specification

Accuracy @25°C	±0.5 %Span
Linearity, repeatability, hysteresis, and calibration	
Total Error Band	±1.0 %Span 0°C to 80°C, ±1.5 %Span -20°C to 125°C ±2.0 %Span -40°C to 125°C
Pressure Ranges	0-15 PSI through 0-750PSI (absolute or sealed gage)
Operating Temperatures	-40°C to 125°C
Storage Temperature Range	-40°C to 150°C
Proof Pressure	3X rated pressure (Maximum 1500 psi)
Burst Pressure	5X rated pressure (Maximum 2500psi)
Cycle Life	10 Million + FS cycles
Vibration	5g (33Hz)
Drop (any axis)	1 m
Housing Materials	Stainless Steel*, Brass
Electrical Connection	IP67
Media Compatibility	Refrigerants, oil and Non-corrosive g

### Part Number Ordering

PRODUCT SERIES	OUTPUT TYPE	PRESSURE UNIT	PRESSURE RANGE	PRESSURE TYPE	Thread	Always a dash	Housing Material	O-RING MATERIAL	CONNECTOR
BH	V	P	0500	S	01	-	S	1	5
BA-BAP (Automotive)	V - 0.5-4.5V *	P - PSI	PSI/kPa: XXXX	A - Absolute	01- 7/16-20 UNF, Female, 1/4SAE, Schrader		A - Aluminum	0 - None	1 - Potable Black D - Swift Red
BH-BHP (HVAC)	E - 0.5-4.5V	B - BAR	Bar: XX.X	S - Sealed Gage	02- 7/16-20 UNF, Female, Schrader		B - Brass	1 - Neoprene	2 - Potable Blue E - Yazaki 4-pin
	F - 0-5V	K - kPa	MPa: X.XX		03- 7/16-20 UNF, Male, 1/4SAE Flare		S - SUS303	2 - Viton	3 - Yazaki 3-pin Black F - AMP MQS 4-pin
	G - 1-5V	M - Mpa			04- 7/16-20 UNF, Male		T - SUS304L	3 - Fluorosilicone	4 - Yazaki 3-pin Blue K - M12 Black
	H - 0-10V				05- 3/8-24 UNF-2A, Male		U - SUS316L	4 - HNBR	5 - Packard Black L - M12 Blue
	I - 4-20mA				06- 1/2-20 UNF-2A, Male		P - Plastic	5 - Buna N	6 - Packard Blue M - M12 Red
	J - 0.5-3.5Vdc *				07- 1/4OD Copper tube, 3mm tip		Z - Zinc		7 - Packard Red P - M12 Yellow
					08- 1/4OD Copper tube, 7mm tip				8 - Packard Yellow Q - M12 Green
					10- G1/4, Male				G - Packard Green R - M12 White
					11- NPT 1/8-27, Male				J - Packard White S - Pig Tail
					12- NPTF 1/8-27, Male				9 - Boot Cable 1m T - Potted Cable(X)m
					13- NPT 1/4-18, Male				A - Boot Cable 2m U - DIN PG9
					14- G3/8, Male				H - Boot Cable 5m
					15- M12x1.25, Male				N - Boot Cable (X)m
					16- M16x1.5 Ermeto Male				B - Swift Black
					17- 7/16-20 UNF, Female, 1/4SAE, Schrader HEX PORT				C - Swift Blue
					18- G1/8, Male				





Type	Pressure range	Installation Method	Electrical Connection	Output	DIXELL reference Model
BHJM2.00S07-S1A	0~2Mpa	connection tube	2m wire lead	0.5~3.5VDC	YCQB02H01
BHVM2.00S07-S1A	0~2Mpa	connection tube	2m wire lead	0.5~4.5VDC	YCQB02H12
BHJM2.00S07-S1H	0~2Mpa	connection tube	4.9m wire lead	0.5~3.5VDC	YCQB02H18
BHJM5.00S07-S1A	0~5Mpa	connection tube	2m wire lead	0.5~3.5VDC	YCQB05H01
BHVM5.00S07-S1A	0~5Mpa	connection tube	2m wire lead	0.5~4.5VDC	YCQB05H10
BHJM2.00S01-S1A	0~2Mpa	screw	2m wire lead	0.5~3.5VDC	YCQB02L12
BHJM2.00S01-S1H	0~2Mpa	screw	4.9m wire lead	0.5~3.5VDC	YCQB02L28
BHVM2.00S01-S1A	0~2Mpa	screw	2m wire lead	0.5~4.5VDC	YCQB02L01
BHVM4.60S01-S1A	0~4.6Mpa	screw	2m wire lead	0.5~4.5VDC	YCQB05L01
BHVM5.00S01-S1A	0~5Mpa	screw	2m wire lead	0.5~4.5VDC	YCQB05L13
BHVM1.38S07-S16	0~1.38Mpa	connection tube	Packard	0.5~4.5VDC	YCQB02H50
BHVM3.45S07-S15	0~3.45Mpa	connection tube	Packard	0.5~4.5VDC	YCQB04H50
BHVM1.38S01-S16	0~1.38Mpa	screw	Packard	0.5~4.5VDC	YCQB02L50
BHVM1.72S01-S16	0~1.72Mpa	screw	Packard	0.5~4.5VDC	YCQB02L51
BHVM3.45S01-S15	0~3.45Mpa	screw	Packard	0.5~4.5VDC	YCQB04L50
BHVM4.60S01-S15	0~4.6Mpa	screw	Packard	0.5~4.5VDC	YCQB05L50

Type	Pressure range	Installation Method	Electrical Connection	Output	DIXELL reference Model
BHIBC925S03-S1A	-0.5~7Bar	7/16-20 UNF, Male, 1/4SAE Flare	Default two meters out line	4~20mA	PP07
BHIBC930S03-S1A	-0.5~11Bar	7/16-20 UNF, Male, 1/4SAE Flare	Default two meters out line	4~20mA	PP11
BHIB30.0S03-S1A	0~30Bar	7/16-20 UNF, Male, 1/4SAE Flare	Default two meters out line	4~20mA	PP30
BHIB30.0S01-S1A	0~30Bar	7/16-20 UNF, Female, 1/4SAE, Schrader	Default two meters out line	4~20mA	PP30FE
BHIB50.0S03-S1A	0~50Bar	7/16-20 UNF, Male, 1/4SAE Flare	Default two meters out line	4~20mA	PP50
BHVB15.0S01-S1A	0~15Bar	7/16-20 UNF, Female, 1/4SAE, Schrader	Default two meters out line	0.5~4.5VDC	PPR15
BHVB35.0S01-S1A	0~35Bar	7/16-20 UNF, Female, 1/4SAE, Schrader	Default two meters out line	0.5~4.5VDC	PPR30

Model				Output	Type	Operating range [bar]	Permissible working pressure PB [bar]	Compensated temp. range [°C]	Danfoss Model
1/4 NPT	G 3/8 A	1/4 in. flare 7/16 - 20 UNF	1/4 in. female flare with deflator						
BHVBC931S13-S1T20	BHVBC931S14-S1T20	BHVBC931S03-S1T20	BHVBC931S01-S1T20	0.5-4.5V	LP	-1 - 12	33	-30 - 40	AKS 32R
		BHVBC929S03-S1T20	BHVBC929S01-S1T20			-1 - 34	55	0 - 80	
BHGBC928S13-S1T20	BHGBC928S14-S1T20	BHGBC928S03-S1T20		1-5V	LP	-1 - 6	33	-30 - 40	AKS 32 1-5V
BHGBC931S13-S1T20	BHGBC931S14-S1T20	BHGBC931S03-S1T20				-1 - 12	33	-30 - 40	
BHGBC960S13-S1T20	BHGBC960S14-S1T20	BHGBC960S03-S1T20			HP	-1 - 20	40	0 - 80	
BHGBC929S13-S1T20	BHGBC929S14-S1T20	BHGBC929S03-S1T20				-1 - 34	55	0 - 80	
		BHGBC927S03-S1T20				-1 - 50	100	0 - 80	
	BHBHBC934S14-S1T20			0-10V	LP	-1 - 5	33	-30 - 40	AKS 32 0-10V
BHBHBC974S13-S1T20	BHBHBC974S14-S1T20	BHBHBC974S03-S1T20				-1 - 9	33	-30 - 40	
BHBHBC926S13-S1T20	BHBHBC926S14-S1T20	BHBHBC926S03-S1T20			HP	-1 - 24	40	0 - 80	
BHBHBC995S13-S1T20	BHBHBC995S14-S1T20	BHBHBC995S03-S1T20				-1 - 39	60	0 - 80	
BHIBC934S13-S1T20	BHIBC934S14-S1T20	BHIBC934S03-S1T20		4-20mA	LP	-1 - 5	33	-30 - 40	AKS 33 4-20mA
BHIBC928S13-S1T20	BHIBC928S14-S1T20	BHIBC928S03-S1T20				-1 - 6	33	-30 - 40	
BHIBC974S13-S1T20	BHIBC974S14-S1T20	BHIBC974S03-S1T20				-1 - 9	33	-30 - 40	
BHIBC931S13-S1T20	BHIBC931S14-S1T20	BHIBC931S03-S1T20				-1 - 12	33	-30 - 40	
BHIBB16.0S13-S1T20	BHIBB16.0S14-S1T20				0 - 16	33	-30 - 40		
BHIBC929S13-S1T20	BHIBC929S14-S1T20	BHIBC929S03-S1T20			HP	-1 - 34	40	0 - 80	
BHIBC960S13-S1T20	BHIBC960S14-S1T20	BHIBC960S03-S1T20				-1 - 20	55	0 - 80	
BHIBB25.0S13-S1T20	BHIBB25.0S14-S1T20	BHIBB25.0S03-S1T20				0 - 25	40	0 - 80	

### Introduction 产品简介

BLR/EOLC Series Accurate Electronic Oil & Liquid Level Regulator is used for oil level control of refrigeration compressors.

This design can be widely used in most domestic and imported compressors, and they can also be applied to screw and scroll compressors with the adapters .

BLR/EOLC Series Accurate Electronic Oil & Liquid Level Regulator can be used for low oil level alarm (describe usage details when place order).

BLR/EOLC电子精准油位控制器应用于制冷压缩机的油位控制，此设计可应用于国产及进口大多数压缩机，也可通过适配器应用于螺杆机或 涡旋机。

BLR/EOLC电子精准油位控制器可用于低油位报警（订货时说明使用详情）。

### Feature 特点

- ◆ Accurate oil level control
- ◆ Status indicator lamp,easy to monitor
- ◆ Low oil level alarm ,to avoid the compressor running in low oil level

- ◆ 精确的油位控制
- ◆ 状态指示灯，便于监控
- ◆ 低油位报警，防止压缩机在低油位运行



### Technical data 技术参数

Working Voltage	AC220V±10%,load current
Wiring	Control compressor loop 5A (2pcs of white wire)
	Control alarm loop 5A (2pcs of black wire)
	red and blue wire is power line with AC220V
Max.Running Pressure	31bar
Max.Running Oil Temp	120°C
Refrigerant	R22、R407、CR507A、R134A、R404A
Min.Specific Gravity Of Lubricating Oil	0.85
Horizontal InstallationError	allowed error±3°(without adapter); allowed error±1°(with adapter)

工作电压	AC220V±10%负载电流；
线路	控制压缩机回路5A（白色线两根）；
	控制报警回路5A（黑色线两根）；
	红色线与蓝色线为AC220V电源线；
最高运行压力	31bar
最高运行油温	120°C
使用制冷剂	R22、R407、CR507A、R134A、R404A
润滑油最小比重	0.85
水平安装误差	不含适配器允许误差±3°； 含适配器允许误差±1°

### Introduction 产品简介

BLR/ELLC Series Accurate Electronic Liquid Level Regulator is used for oil level control of refrigeration compressors.

This design can be widely used in most domestic and imported compressors, and they can also be applied to screw and scroll compressors with the adapters. The oil inlet of matched solenoid valve is with filter screen.

BLR/ELLC Series Accurate Electronic Liquid Level Regulator control box is provided with an aviation plug female seat, When installed, the solenoid valve aviation plug is connected to the curved male plug, Solenoid valve power line adopts integrated perfusion technology with aviation plug line.(if you need high liquid level control and drainage function, please declare when place order).

BLR/ELLC 电子液位控制器应用于制冷压缩机的油位控制，此设计可应用于国产及进口大多数压缩机，也可通过适配器应用于螺杆机或 涡旋机，配套电磁阀进油口设计有过滤网（用户前端必须加精过滤网机油过滤器）。

BLR/ELLC电子液位控制器控制盒设有航空插头母座，安装时与电磁阀航空插头弯公插头连接，电磁阀电源线采用与航空插头线一体灌注工艺。（如需要高液位控制及排液功能，订货时请注明）。



### Feature 特点

- ◆ Accurate oil level control
- ◆ Status indicator lamp,easy to monitor
- ◆ Low oil level alarm ,to avoid the compressor running in low oil level

- ◆ 精确的油位控制
- ◆ 状态指示灯，便于监控
- ◆ 低油位报警，防止压缩机在低油位运行

### Technical data 技术参数

Working Voltage	AC220V±10%,load current
Wiring	Control compressor loop 5A (2pcs of white wire)
	Control alarm loop 5A (2pcs of black wire)
	red and blue wire is power line with AC220V
Max.Running Pressure	31bar
Max.Running Oil Temp	120°C
Refrigerant	R22、R407、CR507A、R134A、R404A
Solenoid Valve	open 40 seconds,stop 10 seconds; Oil shortage alarm 150 seconds; (Oil refill solenoid valve can keep open and the alarm delay is 200 seconds ) need to declare when place the order
Solenoid Valve	the filter screen side is the oil inlet side (when install ,please pay attention to the install arrow, they filling of oil will not be normal if install wrongly)
Min.Specific Gravity Of Lubricating Oil	0.85
Horizontal Installation Error	allowed error±3°(without adapter); allowed error±1°(with adapter)

工作电压	AC220V±10%负载电流；
线路	控制压缩机回路5A（白色线两根）；
	控制报警回路5A（黑色线两根）；
	红色线与蓝色线为AC220V电源线；
最高运行压力	31bar
最高运行油温	120°C
使用制冷剂	R22、R407、CR507A、R134A、R404A
供油电磁阀开停频率	开40秒，停10秒；缺油报警150秒；（补油电磁阀补油常通及报警延时200秒）订货前需注明
电磁阀安装	电磁阀滤网端为进油口（安装时请注意安装箭头方向，反装会造成不能正常补油）
润滑油最小比重	0.85
水平安装误差	不含适配器允许误差±3°；含适配器允许误差±1°





比泽尔中四缸 3-4孔  
FOR BITZER MEDIUM FOUR CYLINDERS 3-4 HOLES



比泽尔小四缸 1-1/8-18UNF  
FOR BITZER SMALL FOUR CYLINDERS 1-1/8-18UNF



涡旋机 1-1/4-12UNF  
FOR SCROLL COMPRESSOR 1-1/4-12UNF

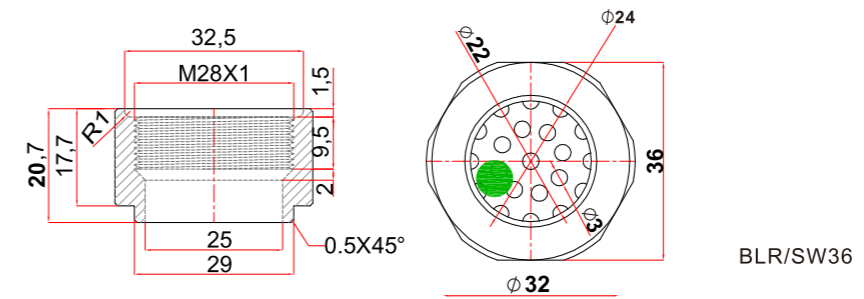


涡旋机 1-1/3-12UNF  
FOR SCROLL COMPRESSOR 1-1/3-12UNF

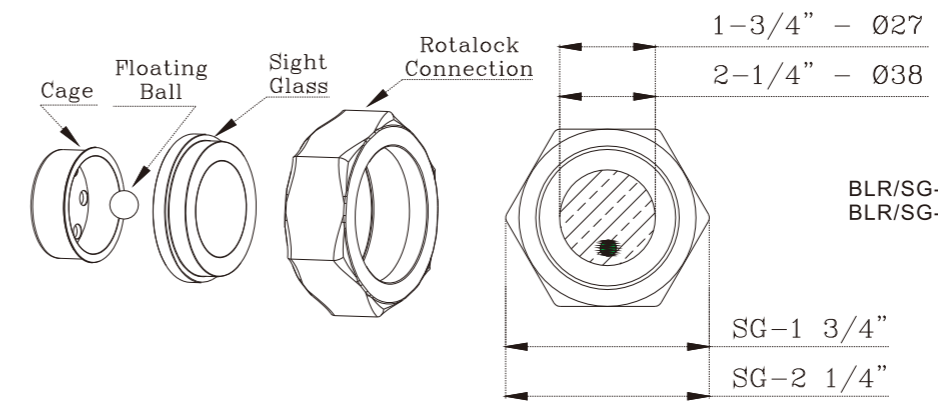


开利松下 1-1/2-18UNEF  
FOR CARLY & PANASONIC 1-1/2-18UNEF

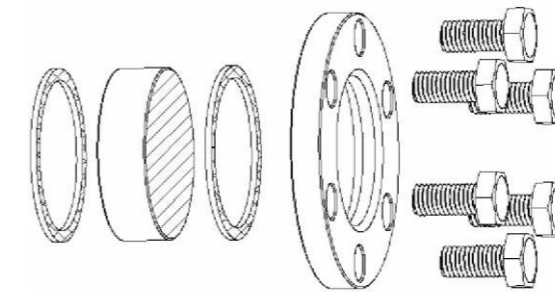
Sight Glasses  
视液镜



BLR/SW36



BLR/SG-1 3/4  
BLR/SG-2 1/4



BLR/DN-80



**Sight Glass**

- ◆ Used to control level of liquid and oil.
- ◆ SW36, SG-1 3/4" and SG-2 1/4" sight glasses have a ball inside them in order to make it easier to see oil/liquid level.
- ◆ There is no ball in model DN80.
- ◆ Sight glasses provided in standard products may be changed with any model of sight glasses that you wish.

**视液镜**

- ◆ 用于控制液体和油的水平。
- ◆ SW36、SG-13/4" 和 SG-21/4" 视液镜内有一个浮球，使其更容易看到油品/液体水平。
- ◆ DN80 款式内没有浮球。
- ◆ 常规视液镜为标准的产品，公司保留对产品未通知的修改权利

Technical Data 技术参数	
最大允许使用温度 Ts [ °C ] / Maximum Working Temperature	-10°C +120 °C
测试压力 Ps [ bar ] / Test Pressure	42 bar
最佳使用温度 Ts [ °C ] / Best Working Temperature	-50°C -10 °C
最大工作压力 Ps [ bar ] / Maximum Working Pressure	23 bar
介质 / Media	Refrigerant pursuant to EN 378-1 制冷剂根据EN378-1



Products 产品	Model 型号	Connections 接口尺寸		
		Flare 螺纹接口	Pipe Connection 管接口	D (mm)
SAE Forged Flare Nuts 压铸铜子	BLR/RA-1/4	1/4" SAE	1/4" ODS	6.5
	BLR/RA-3/8-1/4	3/8" SAE	1/4" ODS	6.5
	BLR/RA-3/8	3/8" SAE	3/8" ODS	9.7
	BLR/RA-1/2	1/2" SAE	1/2" ODS	13
	BLR/RA-5/8	5/8" SAE	5/8" ODS	16.2
	BLR/RA-3/4	3/4" SAE	3/4" ODS	19.4



Products 产品	Model 型号	Connections 接口尺寸		
		Flare 螺纹接口	Pipe Connection 管接口	D (mm)
SAE Flare Unions 直接头	BLR/SU-1/4	1/4" SAE	-	-
	BLR/SU-3/8	3/8" SAE	-	-
	BLR/SU-1/2	1/2" SAE	-	-
	BLR/SU-5/8	5/8" SAE	-	-
	BLR/SU-3/4	3/4" SAE	-	-



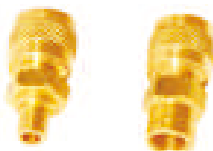
Products 产品	Model 型号	Connections 接口尺寸		
		Flare 螺纹接口	Pipe Connection 管接口	D (mm)
ODS&Flare Adapters 焊接&螺纹接头	BLR/UMB-1/4	1/4"	1/4" ODS	-
	BLR/UMB-3/8	3/8"	3/8" ODS	-
	BLR/UMB-1/2	1/2"	1/2" ODS	-



Products 产品	Model 型号	Connections 接口尺寸		
		Flare 螺纹接口	Pipe Connection 管接口	D (mm)
SAE Flare TEE 螺纹T型三通	BLR/TE-1/4	1/4" SAE	1/4" SAE	1/4" SAE
	BLR/TE-3/8	3/8" SAE	3/8" SAE	3/8" SAE



Products 产品	Model 型号	Connections 接口尺寸		
		Flare 螺纹接口	Pipe Connection 管接口	D (mm)
Male/Female SAE Flare TEE 公/母 螺纹 T 型三通	BLR/TTE-1/4	1/4" SAE	1/4" SAE	1/4" SAE



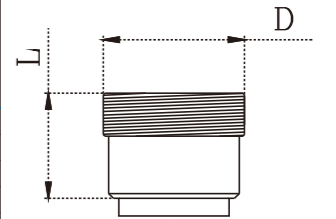
Products 产品	Model 型号	Connections 接口尺寸		
		Flare 螺纹接口	Pipe Connection 管接口	D (mm)
SAE Subop 螺纹接头套件	BLR/S-1011	1/4" SAE	-	-
	BLR/S-1012	1/4" SAE	-	-



Products 产品	Model 型号	Connections 接口尺寸		
		Flare 螺纹接口	Pipe Connection 管接口	D (mm)
SAE Service / NPT Unyon 组合接头	BLR/BAU-1/4	1/4" SAE	1/4"Npt	-
	BLR/SSU-1/4	1/4" SAE	1/8"Npt	-

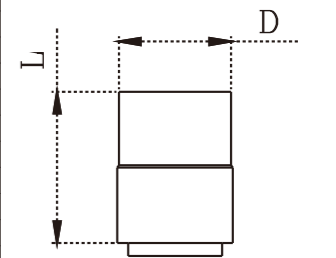
Rotalock Valve's Connections / 锁定接头用直接头

Model 型号	Connections 接口尺寸		Rot. Connection 锁定接头
	D (mm)	L (mm)	
BLR/RC-3/4	Φ19	21	3/4"
BLR/RC-1	Φ25	25	1"
BLR/RC-1 1/4	Φ31,5	25	1 1/4"
BLR/RC-1 3/4	Φ44,3	33	1 3/4"
BLR/RC-2 1/4	Φ57	33	2 1/4"



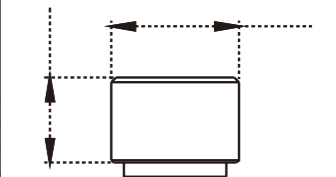
Solder Connections / 焊接接头

Model 型号	Connections 接口尺寸		Rot. Connection 锁定接头
	D (mm)	L (mm)	
BLR/SC-06	Φ6.6	30	6 mm
BLR/SC-09	Φ9.65	30	9 mm
BLR/SC-12	Φ13.2	32	12 mm
BLR/SC-16	Φ16.2	32	16 mm
BLR/SC-19	Φ19.2	35	19 mm
BLR/SC-22	Φ22.2	35	22 mm
BLR/SC-28	Φ28.2	35	28 mm
BLR/SC-35	Φ35.2	42	35 mm
BLR/SC-42	Φ42.4	50	42 mm
BLR/SC-54	Φ54.4	55	54 mm
BLR/SC-66	Φ67.0	55	66 mm
BLR/SC-76	Φ76.4	55	80 mm
BLR/SC-80	Φ80.4	60	80 mm
BLR/SC-90			90 mm
BLR/SC-102			102 mm
BLR/SC-114			114 mm



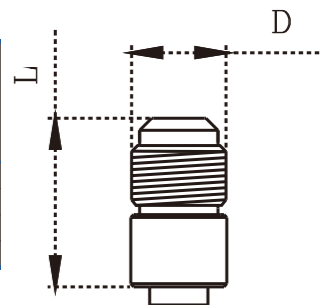
NPT Connections / NPT 接头

Model 型号	Connections 接口尺寸		NPT Connection NTP 锥螺纹接头
	D (mm)	L (mm)	
BLR/NPT-1/8	Φ19	15	1/8" NPT
BLR/NPT-1/4	Φ22	15	1/4" NPT
BLR/NPT-3/8	Φ25	16.5	3/8" NPT
BLR/NPT-1/2	Φ27	18	1/2" NPT



SAE Connections / SAE 接头

Model 型号	Connections 接口尺寸		NPT Connection NTP 锥螺纹接头
	D (mm)	L (mm)	
BLR/UC-1/4	Φ11	28	1/4" SAE
BLR/UC-3/8	Φ15,7	28	3/8" SAE
BLR/UC-1/2	Φ21,7	33	1/2" SAE
BLR/UC-5/8	Φ22,7	33	5/8" SAE



Connection Parts

- ◆ Connection devices are fully manufactured at our plant by CNC machines.
- ◆ All of raw materials are certified products.
- ◆ Special connection parts are available.

连接部件

- ◆ 连接设备完全在我们的工厂生产的数控机床。
- ◆ 所有的原料都是经过认证的产品。
- ◆ 可以提供特殊连接件。



品名/Item	型号 / Model	Danfoss	Emerson	Castel	Parker	Parker (Sporlan) For R410A	HENRY AC&R
Ball Valve Model with Access Valve 球阀型号带加液阀	BLR/GBC 6s A	GBC 6s	---	6590/M6	EBVT-1020		
	BLR/GBC 6s A	GBC 6s	BVS 014	6590/2	EBVT-1020	RBV06C	
	BLR/GBC 10s A	GBC 10s	BVS 038	6590/3	EBVT-1030	RBV10C	903203
	BLR/GBC 10s A	GBC 10s	---	6590/M10	EBVT-1030		---
	BLR/GBC 12s A	GBC 12s	---	6590/M12	EBVT-1040		903204
	BLR/GBC 12s A	GBC 12s	BVS 012	6590/4	EBVT-1040	RBV12C	---
	BLR/GBC 16s A	GBC 16s	BVS 058	6590/5	EBVT-1050	RBV16C	903205
	BLR/GBC 18s A	GBC 18s	---	6590/M15	EBVT-1060		---
	BLR/GBC 18s A	GBC 18s	BVS 034	6590/6	EBVT-1060	RBV18C	903206
	BLR/GBC 22s A	GBC 22s	BVS 078	6590/7	EBVT-1070	RBV22C	903207
	BLR/GBC 28s A	GBC 28s	---	6590/M28	EBVT-1070		---
	BLR/GBC 28s A	GBC 28s	BVS 118	6590/9	EBVT-1090	RBV28C	903209
	BLR/GBC 35s A	GBC 35s	BVS 138	6590/11	EBVT-1110	RBV35C	903511-CE
	BLR/GBC 42s A	GBC 42s	BVS 158	6590/13	EBVT-1130	RBV42C	903613-CE
	BLR/GBC 42s A	GBC 42s	---	6590/M42	EBVT-1130		---
	BLR/GBC 54s A	GBC 54s	BVS 218	6590/17	EBVT-1170	RBV54C	903617-CE
	BLR/GBC 67s A	GBC 67s	BVS 258	6590/21	EBVT-1210		937721-CE
	BLR/GBC 79s A	GBC 79s	BVS 318		EBVT-1250		937725-CE
BLR/GBC 102s A	GBC 102s	4-1/8"				---	
Ball Valve Model without Access Valve 球阀型号不带加液阀	BLR/GBC 6s	GBC 6s	BVE 014		EBV-1020		
	BLR/GBC 10s	GBC 10s	BVE 038	6590/3A	EBV-1020		900203
	BLR/GBC 10s	GBC 10s	---	6590/M10A	EBV-1030		---
	BLR/GBC 12s	GBC 12s	---	6590/M12A	EBV-1030		900204
	BLR/GBC 12s	GBC 12s	BVE 012	6590/4A	EBV-1040		---
	BLR/GBC 16s	GBC 16s	BVE 058	6590/5A	EBV-1040		900205
	BLR/GBC 18s	GBC 18s	---	6590/M18A	EBV-1050		---
	BLR/GBC 18s	GBC 18s	BVE 034	6590/6A	EBV-1060		
	BLR/GBC 22s A	GBC 22s	BVE 078	6590/7A	EBV-1060		900207
	BLR/GBC 28s	GBC 28s	---	6590/M28A	EBV-1070		---
	BLR/GBC 28s	GBC 28s	BVE 118	6590/9A	EBV-1070		900209
	BLR/GBC 35s	GBC 35s	BVE 138	6590/11A	EBV-1090		900511-CE
	BLR/GBC 42s	GBC 42s	BVE 158	6590/13A	EBV-1110		900613-CE
	BLR/GBC 42s	GBC 42s	---	6590/M42A	EBV-1130		---
	BLR/GBC 54s	GBC 54s	BVE 218*	6590/17A	EBV-1130		900617-CE
	BLR/GBC 67s	GBC 67s	BVE 258*	6590/21A	EBV-1170		907721-CE
	BLR/GBC 79s	GBC 79s	BVE 318	6590/25A	EBV-1210		907725-CE
	BLR/GBC 92S	GBC 92s	---				
BLR/GBC 102s	GBC 102s	4-1/8"	6591/33A	EBV-1250		---	
Magnetic Check Valve 磁性膜片式单向阀	BLR/CMV014		ACK-4				F6306
	BLR/CMV038		ACK-6				F6307
	BLR/CMV012		ACK-8				F6308
	BLR/CMV058		ACK-10				F6309
	BLR/CMV034E						
	BLR/CMV034		ACK-12				F6310
	BLR/CMV078		ACK-14				F6311
	BLR/CMV118		ACK-18				F6312
	BLR/CMV138E						
	BLR/CMV138		ACK-22				F6313
	BLR/CMV158		ACK-26				F6314
	BLR/CMV218E						
	BLR/CMV218		ACK-34				F6315
	BLR/CMV258		ACK-42				F6316
	BLR/CMV318						F6085

品名/Item	型号 / Model	Heldon	CARLY	Muller	Superior	ESSEEN
Ball Valve Model with Access Valve 球阀型号带加液阀	BLR/GBC 6s A		VBCY 2 MMS			
	BLR/GBC 6s A		VBCY 2 S	AQ17859	586WAS-4ST	RBV06C
	BLR/GBC 10s A	2352-0606	VBCY 3 S	AQ17860C	586WAS-6ST	RBV10C
	BLR/GBC 10s A		VBCY 3 MMS		586WAV-10MM	
	BLR/GBC 12s A		VBCY 4 S		586WAV-12MM	
	BLR/GBC 12s A	2352-0808	VBCY 4 MMS	AQ17861C	586WAS-8ST	RBV12C
	BLR/GBC 16s A	2352-1010	VBCY 5 S/MMS	AQ17862C	586WAS-10ST	RBV16C
	BLR/GBC 18s A		VBCY 6 MMS		587WAV-18MM	
	BLR/GBC 18s A	2352-1212	VBCY 6 S	AQ17863		RBV18C
	BLR/GBC 22s A	2352-1414	VBCY 7 S/MMS	AQ17864C	587WAS-14ST	RBV22C
	BLR/GBC 28s A		VBCY 9 S		591WAS-11ST	
	BLR/GBC 28s A	2352-1818	VBCY 9 MMS	AQ17865A	591WA-11ST	RBV28C
	BLR/GBC 35s A	2352-2222	VBCY 11 S/MMS	AQ17866	592WAV-35MM	RBV35C
	BLR/GBC 42s A	2352-2626	VBCY 13 S	AQ17867	593WAS-15ST	RBV42C
	BLR/GBC 42s A		VBCY 13 MMS		593WAV-42MM	
	BLR/GBC 54s A	2352-3434	VBCY 17 S/MMS	AQ17868	594WAS-21ST	RBV54C
	BLR/GBC 67s A	2532-4242	VBCY 21 MMS	AQ17869		
	BLR/GBC 79s A	2532-5050FP	VBCY 25 MMS	AQ17870		
Ball Valve Model without Access Valve 球阀型号不带加液阀	BLR/GBC 6s			AP17859	586WA-4ST	RBV06
	BLR/GBC 10s			AP17860C	586WA-6ST	RBV10
	BLR/GBC 10s	2302-0606				
	BLR/GBC 12s					
	BLR/GBC 12s			AP17861C	586WA-8ST	RBV12
	BLR/GBC 16s	2302-0808		AP17862C	586WA-10ST	RBV16
	BLR/GBC 18s	2302-1010				
	BLR/GBC 18s			AP17863	587WA-12ST	RBV18
	BLR/GBC 22s A	2302-1212		AP17864C	587WA-14ST	RBV22
	BLR/GBC 28s	2302-1414				
	BLR/GBC 28s			AP17865A	591WA-11ST	RBV28
	BLR/GBC 35s	2302-1818		A17866	592WA-13ST	
	BLR/GBC 42s	2302-2222		A17867	593WA-15ST	RBV35
	BLR/GBC 42s	2302-2626				RBV42
	BLR/GBC 54s			A17868	594WA-21ST	RBV54
	BLR/GBC 67s	2302-3434		A17869	594WA-25ST	
	BLR/GBC 79s	2502-4242		A17870		
	BLR/GBC 92S			B34909		
BLR/GBC 102s	2502-5050FP		B34910	596WA-41ST		
Magnetic Check Valve 磁性膜片式单向阀	BLR/CMV014	2026-0404		CMV014	900MA-4S	EIC4
	BLR/CMV038	2026-0606		CMV038	900MA-6S	EIC6
	BLR/CMV012	2026-0808		CMV012	900MA-8S	EIC8
	BLR/CMV058	2026-1010		CMV058	900MA-10S	EIC10
	BLR/CMV034E			CMV034E	900MA-12S	
	BLR/CMV034	2026-1212		CMV034		EIC12
	BLR/CMV078	2026-1414		CMV078	900MA-14S	EIC14
	BLR/CMV118	2026-1818		CMV118	900MA-11S	EIC18
	BLR/CMV138E			CMV138E		
	BLR/CMV138	2026-2222		CMV138	900MA-13S	EIC22
	BLR/CMV158	2026-2626		CMV158	900MA-15S	EIC26
	BLR/CMV218E			CMV218E		
	BLR/CMV218	2026-3434		CMV218	900MA-21S	EIC34
	BLR/CMV258	2026-4242		CMV258	900MA-25S	EIC42
	BLR/CMV318			CMV318		

品名/Item	型号 / Model	Danfoss	Emerson	Castel	Parker	HENRY AC&R	Heldon	CARLY	Muller	NGI
NRV Check Valve NRV 单向阀	BLR/NRV 6			3112/2						
	BLR/NRV 10			3112/3						
	BLR/NRV 12			3112/4						
	BLR/NRV 16			3112/5						
	BLR/NRV 19			3112/6						
	BLR/NRV 6s			3132/2						
	BLR/NRV 10s			3132/3						
	BLR/NRV 12s			3132/4						
	BLR/NRV 16s			3132/5						
	BLR/NRV 19s			3132/6						
	BLR/NRVH 22s			3182/7						
	BLR/NRVH 28s			3182/9						
	BLR/NRVH 35s			3182/11						
	BLR/NRVH 42s			3182/13						
Safety Valve 安全阀	BLR/3030/88C			3030/88C						G20/S
	BLR/3030/66C			3030/66C						G14/S
	BLR/3030/44C			3030/44C						G14/S
	BLR/3060/46C			3060/46C						
	BLR/3060/36C			3060/36C						D10/CS
	BLR/3060/45C			3060/45C						
	BLR/3060/34C			3060/34C						
	BLR/3060/33C			3060/33C						
	BLR/3060/24C			3060/24C						D7/CS
	BLR/3060/23C			3060/23C						
Vibration Eliminators 减震管	BLR/VA014					VE-1/4-CB				
	BLR/VA038			7690/3		VE-3/8-CB	V-3/8			
	BLR/VA012			7690/4		VE-1/2-CB	V-1/2			
	BLR/VA058			7690/5		VE-5/8-CB	V-5/8			
	BLR/VA034			7690/6		VE-3/4-CB	V-3/4			
	BLR/VA078			7690/7		VE-7/8-CB	V-7/8			
	BLR/VA118			7690/9		VE-1-1/8-CB	V-1-1/8			
	BLR/VA138			7690/11		VE-1-3/8-CB	V-1-3/8			
	BLR/VA158			7690/13		VE-1-5/8-CB	V-1-5/8			
	BLR/VA218			7690/17		VE-2-1/8-CB	V-2-1/8			
	BLR/VA258			7690/21		VE-2-5/8-CB	V-2-5/8			
	BLR/VA318			7690/24		VE-3-1/8-CB	V-3-1/8			
	BLR/VA358			7690/25		VE-3-5/8-CB	V-3-5/8			
	BLR/VA418					VE-4-1/8-CB	V-4-1/8			
ODF Connection Sight Glass 焊接口视镜	BLR/SGN-014S	SGN 6S	HMI-1TT2	3940/2	SA-12S			VCYL 32 S	A 18114	
	BLR/SGN-038S	SGN 10S	HMI-1TT3	3940/3	SA-13S	665-0404H		VCYL 33 S	A 18115	
	BLR/SGN-012S	SGN 12S	HMI-1TT4	3940/4	SA-14S	665-0606H		VCYL 34 S	A 18116	
	BLR/SGN-058S	SGN 16S	HMI-1TT5	3940/5	SA-15S	665-0808H		VCYL 35 S/MMS	A 18117	
	BLR/SGN-034S	SGN-19S	HMI-1TT6	3940/6		665-1010H		VCYL 36 S	A 18118	
	BLR/SGN-078S	SGN-22S	HMI-1TT7		SA-17S	670-1414		VCYL 37 S/MMS	A 18119	
	BLR/SGN-118S	SGN-28S	HMI-1TT9		SA-19S	670-1818		VCYL 39 S	A 18124	
	BLR/SGN-138S				SA-211	670-2222			A 18125	
	BLR/SGN-158S				SA-213	670-2626			A 18126	
	BLR/SGN-218S				SA-217	670-3434			A 18127	
SAE Connection Sight Glass 焊接口视镜	BLR/SGN-014	SGN 6	HMI-1MM2	3910/22	SA-12	650-0404H		VCYL 12	A 18101	
	BLR/SGN-038	SGN 10	HMI-1MM3	3910/33	SA-13	650-0606H		VCYL 13	A 18102	
	BLR/SGN-012	SGN 12	HMI-1MM4	3910/44	SA-14	650-0808H		VCYL 14	A 18103	
	BLR/SGN-058	SGN 16	HMI-1MM5	3910/55	SA-15	650-1010H		VCYL 15	A 18104	
	BLR/SGN-034	SGN-19	HMI-1MM6	3910/66						
Male&Famel Connection Sight Glass 内螺纹+外螺纹视镜	BLR/SGN-014MF	SGN 6(014-0171)	HMI-1FM2	3950/22	SA-12FM	655-0404H		VCYL 22	A 18106	
	BLR/SGN-038MF	SGN 10(014-0172)	HMI-1FM3	3950/33	SA-13FM	655-0606H		VCYL 23	A 18107	
	BLR/SGN-012MF	SGN 6(014-0173)	HMI-1FM4	3950/44	SA-14FM	655-0808H		VCYL 24	A 18108	
	BLR/SGN-058MF	SGN 10(014-0174)		3950/55						
	BLR/SGN-034MF	SGN 6(014-0175)		3950/66						
ODF Connection Double Head Sight Glass 焊接口双镜头视镜	BLR/DSGN-078					675-1414				
	BLR/DSGN-118					675-1818				
	BLR/DSGN-138					675-2222				
	BLR/DSGN-158					675-2626				
	BLR/DSGN-218					675-3434				
Sight Glass Head 视镜镜头	BLR/SGR 1/2	SGR 1/2								
	BLR/SGR 3/4	SGR 3/4								
	BLR/SGR 3/4	SGR 3/4								
	BLR/SGRN 1/2	SGRN 1/2								

