AMG
Refrigeration Valve

Changzhou AMG Refrigeration Equipment Co.,Ltd.
常州埃姆基冷冻设备有限公司

汇世界阀门之精华
Collect essence of world valve

创国际品牌埃姆基
Create an international brand AMG

工业制冷阀门
Industrial refrigeration valve

目 录 Catalog

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常州埃姆基冷冻设备有限公司引进国际先进的技术和设备专业生产AMG系列工业制冷阀门，其完美的设计、优异的性能、精良的制造，获“中国国际专利与名牌博览会金奖”、“美国国际品质认证委员会高品质产品推荐证书”。

AMG系列工业制冷阀门外形漂亮美观、结构先进独特、操作轻便灵活、密封性能优异、无泄漏、可靠性高、使用寿命长。广泛应用于制冷、冷冻、空调行业及食品、饮料、啤酒、制药、船舶、燃气、化工、石油等行业中的冷冻冷藏系统。

高性能的制冷系统需要高品质的部件来保证，使用AMG系列工业制冷阀门品高价廉，完全能代替昂贵进口阀门，并为您的产品争辉。

Changzhou AMG Refrigeration Equipment Co., Ltd. has introduced the world's advanced technology and equipment for specialized manufacture of Industrial refrigeration valve in AMG series. Because of their perfect design, excellent performance and high-quality manufacture, they were awarded "Golden Prize of China International Patent & Brand Exposition" and "Certificate of Recommendation for High-quality Products of the US Council of International Quality Authentication".

Industrial refrigeration valve in AMG series are featured by good-looking and artistic appearance, advanced and unique structure, light and flexible operation, excellent sealing performance, zero leakage, high reliability and long service life. They are widely used in refrigerated-storage and freezing systems in the industries of cooling, refrigeration and air-conditioning as well as the industries of food, beverage, bear, pharmaceutical, ship-building, gas, chemical, petroleum, etc.

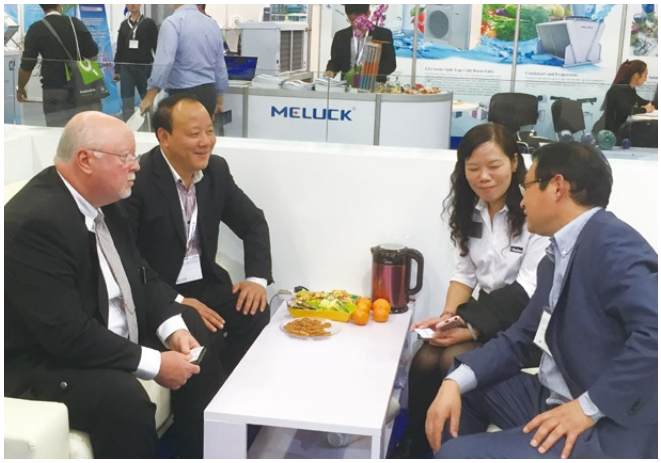
A high-performance refrigeration system is dependable on high quality components. The application of AMG series Industrial refrigeration valve with high quality and reasonable price will offer you a complete alternative for expensive imported valves while adding luster to your products.

产品特点 Product features

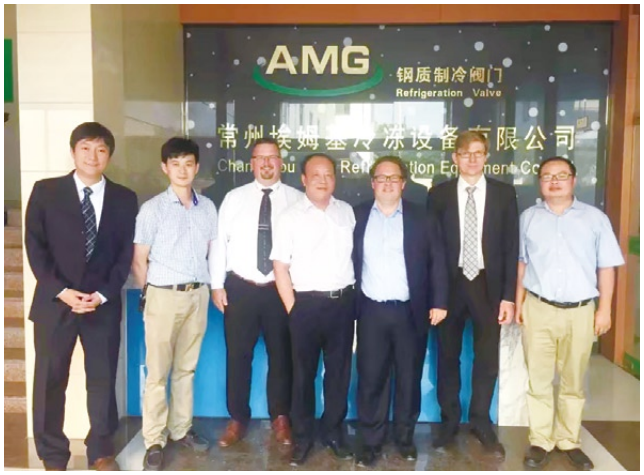
- 最佳的产品设计。采用CAD、SolidWorks辅助设计。
- 适用于所有的通用制冷剂以及非腐蚀性气体和液体。包括氨、氟、CO_2以及丙烷、丙烯等。
- 完美的密封性能。在运动件阀杆上采用高精度双“O”形密封圈及特制填料，无泄漏。所有密封垫均采用无石棉垫片，既耐氟又耐氨。
- 倒密封设计，可以方便地在系统工作状态下对阀门进行维护。双锥型面密封设计，保证流通能力大、压降小、功效高。
- 采用特殊的阀杆和阀瓣联接结构，阀瓣同心度自动调节，保证阀门关闭时的密封性以及减少阀瓣摩擦，使用寿命长。
- 结构紧凑、体积小、重量轻。降低运输费用、减少安装时间和降低劳动强度。
- 最佳的防锈、防腐保护。内外表面用特殊配方和工艺处理，保证清洁不生锈。不锈钢阀杆采用特殊的抛光技术。
- 可直接与钢管焊接或铜管钎焊，并提供手轮或密封帽供客户选择。
- 每个阀门均按欧洲标准进行严格的检测。

- Optimal product design. Adoption of computer-aided design (CAD SolidWorks).
- Applicable to all general-purpose refrigerants and non-corrosive gases and liquids, including ammonia, fluorine、CO_2,propane and propylene.
- Perfect sealing performance. The moving part valve stem is provided with high-precision double O-ring and PTFE packing to ensure zero leakage. All sealing gaskets are environment-friendly asbestos-free ones that are resistant to both fluorine and ammonia.
- The back seal design enables convenient valve maintenance during system operation. The double-cone seal design ensures large flow capacity, small pressure drop and high efficiency.
- A special linkage structure between valve stem and valve clack is adopted so that the concentricity of valve clack is adjusted automatically to ensure valve closing tightness and minimize valve clack friction for prolonging service life.
- Compact structure, small size and light weight. Reducing freight cost, shortening installation time and lowing labor intensity.
- Best protection against rusting and corrosion. Special rust-proof materials are used on the surface. The internal and external surfaces are treated with special formula and process to ensure cleanness and rust-free. The stainless steel valve stem is polished by a special technique.
- Possibility of direct welding to steel pipe or brazing to copper pipe. Customer options are offered for either hand-wheel or sealed cap.
- Each valve is inspected strictly according to European standards.

■ AMG公司与Parker集团公司签署合作协议



■ 冰轮集团李增群董事长在德国制冷展与Parker、AMG公司亲切交谈

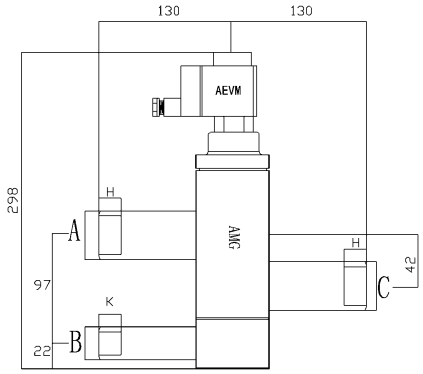


■ Dandfoss公司高层领导莅临AMG公司指导、交流工作

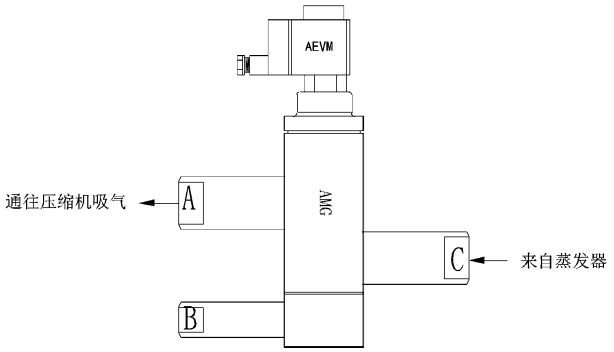
■ HANSEN公司高层领导莅临AMG公司指导、交流工作

■ Parker集团公司高层领导莅临AMG公司指导、交流工作

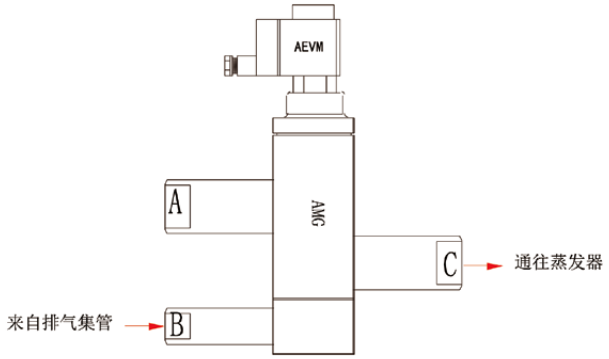
化霜电磁三通调节阀AVF系列
Defrost valves AFV Series



图一 (Fig1)



图二 (Fig2)



图三 (Fig3)

技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +150℃
Applicable temperature: −50℃ ~ +150℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、等。
Applicable medium: ammonia, fluorine, etc.

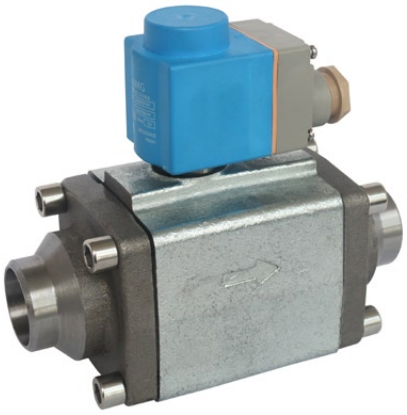
特点 Characteristics

- AVF是一个专为热气化霜而设计的电磁三通调节阀
  AFV valve is a three way solenoid valve, which is designed for defrosting by hot gas.
- 该阀设计成通过内部各腔室的互动，来减少外部复杂的管路连接，结构简单、紧凑合理、安装便捷。
  AVF valve is designed with internal communication in each inner chamber to avoid external pipes and connections. AFV valve is easy for installation.
- 制冷周期循环：当电磁线圈失电时，B接口通道处于关闭状态，AVF阀处于正常的流动方向，从蒸发器到压缩机吸气。即C接口到A接口连通见（图二）。
  Refrigeration cycle: when the coil is currentless, joint B is closed. Valve is in normal flow direction, from the evaporator to suction of compressor (joint C to joint A). See Fig 2
- 除霜周期循环：当电磁线圈得电，AVF阀内部通道切换，关闭通往压缩机接口A，接口B热气通过C接口进入蒸发器进行化霜见（图三）。
  Defrosting cycle: when the coil is energized, joint A is closed, hot gas flow from the pipeline (jiont B) to evaporator (joint C) for defrosting. See Fig 3

  +
- 当蒸发器中温度或时间达到设定值时，电磁阀关闭，热气化霜将会结束，重新开始制冷循环。（但风扇需要延迟一段时间之后才能启动，俗称滴水时间）。
  When the temperature or time in the evaporator reaches the set value, the solenoid valve is closed, the hot gas defrosting will end, and the refrigeration cycle will start again. (but the fan needs to be delayed for a period of time before starting, commonly known as dripping time)
- AVF阀只能与排气集成总管连接，不允许与排气主管直接相连。
  AVF valve can only be connected with the exhaust integrated main pipe. It is not allowed to connect with the exhaust main pipe directely.

型号 Type	ϕA		ϕB		ϕC	H	k
	inch	mm	inch	mm	mm		
AVF 25−D	1−1/8″	34	7/8″	28	34	25	20
AVF 32−D	1−3/8″	42	7/8″	28	42	25	20

电磁阀AEVRA32-40及AEVRAT10-25系列
Solenoid valves AEVRA32- 40 and AEVRAT10- 25 Series



特点 Characteristic

- AEVRA是一种直接或者伺服动作的电磁阀，用于氨、氟等制冷剂的液体、吸气或热气管路上。
  AEVRA is a direct or servo-operated solenoid valve. It is used in liquid, aspiration or hot gas pipelines of refrigerants such as ammonia and fluorine.
- AEVRAT则是一种辅助开启式的伺服电磁阀，可以应用于氨或氟等制冷剂的液体、吸气或热气管路上。
  AEVRAT is an auxiliary opening servo solenoid valve, which can be used in liquid, aspiration or hot gas pipeline of refrigerant such as ammonia or fluorine.
- AEVRAT的特殊设计，使它开启时无需压差，因此特别适用于要求开启压差为零的场合。AEVRAT都具有手动开启装置。
  The special design of AEVRAT makes it can be open without pressure difference, so it is especially suitable for situations requiring zero pressure difference. AEVRAT has manual opening device.

技术参数 Technical parameters

型号 Type	使用标准线圈时的开启压差 （△P bar）				介质温度℃ Temperature	最大工作压力 bar Max working pressure	适用介质 Medium	Kv值 m^3/h Kv value
	最小 min	最大（介质为液体时）Max（Liqiud medium）						
		10w a.c.	12w a.c.	20w a.c.				
AEVRA10	0.05	21	25	18	-40~+105	42	氨.氟等 Ammonia, fluorine, etc	1.5
AEVRAT10	0.00	14	21	16	-40~+105	42		1.5
AEVRA15	0.05	21	25	18	-40~+105	42		2.7
AEVRAT15	0.00	14	21	16	-40~+105	42		2.7
AEVRA20	0.05	21	25	13	-40~+105	42		4.5
AEVRAT20	0.05	14	21	13	-40~+105	42		4.5
AEVRA25	0.20	21	25	14	-40~+105	42		10.0
AEVRA32	0.20	21	25	14	-40~+105	42		16.0
AEVRA40	0.20	21	25	14	-40~+105	42		25.0

型号 Type	额定冷量[1] KW Capacity								
	液体 Liquid			回气 Aspiration			热气 Hot gas		
	R717	R22	R134a	R717	R22	R134a	R717	R22	R134a
AEVRAT10	142	30.2	27.8	9.0	3.4	2.5	42.6	13.9	11.3
AEVRAT15	256	54.4	50.1	16.1	6.2	4.4	76.7	24.9	20.3
AEVRAT20	426	90.6	83.5	26.9	10.3	7.3	128	41.5	33.9
AEVRA25	947	201	186	59.7	22.8	16.3	284	92.3	75.3
AEVRA32	1515	322	297	95.5	36.5	26.1	454	148	120
AEVRA40	2368	503	464	149	57.0	40.8	710	231	188

1）液管和回气管的额定制冷量的测定工况为：蒸发温度te=−10℃，阀前液体温度为25℃，阀门压差为△P=0.15bar，热气管额定制冷量的测定工况为：冷凝温度tc=−40℃，阀门压差为△P=0.8bar，热气温度为65℃，过冷度为△tsub=4k，

电磁阀VMP系列
Solenoid Valves VMP Series

技术参数 Technical parameters

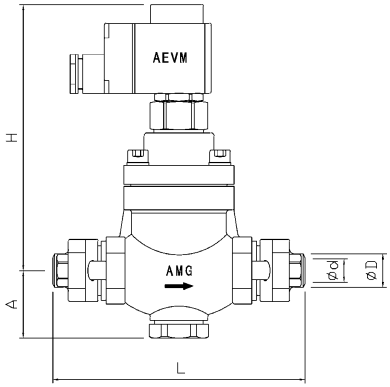
52

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.



特点 Characteristics

- VMP系列是先导型活塞电磁阀，适合于氨和其它常用的氟利昂制冷剂
  VMP are solenoid servo-operated piston valves, suitable for ammonia and other common fluorinated refrigerants
- 该阀按腰圆形法兰连接设计，用于与钢管或铜管的焊接或钎焊电磁阀通常是常闭类型，当线圈得电时，而且最小的进出口压差△p=0.2~0.3 bar，电磁阀打开
  The valves are designed to be connected by oval flange, which is welded on the pipeline. Valves are normally closed with currentless coil. When valves are energized, and the minimum differential pressure between inlet and outlet reach 0.2 to 0.3 bars, valves will be open.
- 当进出口压差△p<0.2 bar时，你可以使用RAK、RACK、RALK气动阀
  For application with △p lower than 0.2 bar, can use gas powered valves RAK, RACK, RALK series
- 标准的线圈是NC类型，AC 220V−50/60Hz 10W，MOPD可达21Bar。
  The standard coil NC type, AC 220V-50/60Hz 10W and MOPD up to 21 Bar
- 提供带有DIN43650接头的封装线圈。
  Supply coil with DIN 43650 joint.
- 与AFA过滤器的最佳组合。AFA过滤器标配目数为100目滤网，如需其它规格，请联系AMG公司。
  Prefer to combine with AFA filter. The mesh of AFA filters is 100. For other mesh, please contact AMG.

名称 Name	型号 Type	尺寸(mm) Size(mm)								kv	Cv
		DN		ϕD	ϕd	A	H	L	L1		
VMP 电磁阀 Solenoid Valves	VMP 10	3/8″	10	14	10	43	171	160	100	2,6	3
	VMP 15	1/2″	15	21	15	43	171	160	100	3,8	4,4
	VMP 20	3/4″	20	27	20	43	171	160	100	4,5	4,8

电磁阀AML系列
Solenoid Valves AML Series

技术参数 Technical parameters

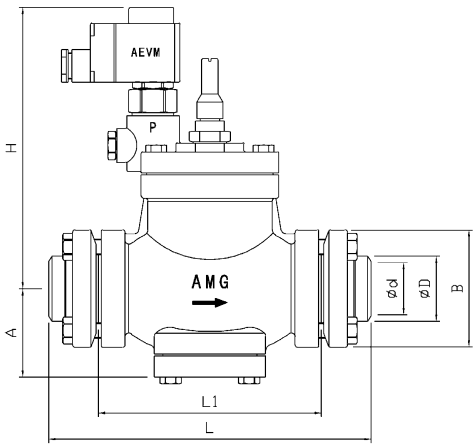
52

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.



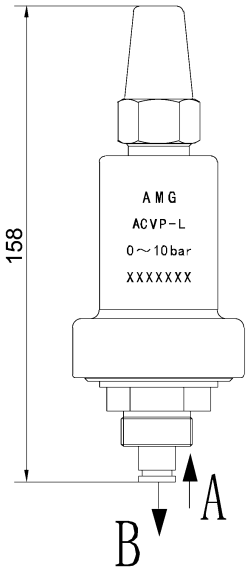
特点 Characteristics

- AML系列是先导型活塞电磁阀，适用于氨和其它常用的氟利昂制冷剂
  AML are solenoid servo-operated piston valves, suitable for ammonia and other common fluorinated refrigerants
- 该阀按法兰连接设计，用于与钢管或铜管的焊接或钎焊
  The valves are designed to be mounted between flanges, welded or brazed them to steel or cooper pipes.
- 电磁阀通常是常闭类型，当线圈得电时，电磁阀打开
  The valves are normally closed with currentless coil. They will be open when the coil is powered
- AML 电磁阀的开启度与进出口的压差有关。如果压差△p=0.3 bar时， 主阀会全开；如果压差是△p=0.2−0.3 bars，阀的开启度与此压差成正比例关系
  The opening of AML valves is related to the differential pressure between inlet and outlet, so if the pressure difference △p= 0.3 bar, the main valve will be fully open, and if △p = 0.2 ~ 0.3 bar, the opening will be correspondingly proportional to △p.
- 配有手动紧急调整杆
  Prepared with manual emergency stem
- 标准的线圈是NC类型，AC 220V−50/60Hz 10W，MOPD可达21Bar。提供带有DIN43650接头的封装线圈。
  The standard coil NC type, AC 220V-50/60Hz 10W and MOPD up to 21 Bar, supply coil with DIN 43650 joint.

名称 Name	型号 Type	尺寸(mm) Size(mm)								kv	Cv
		DN		ϕD	ϕd	A	H	L	L1		
AML 电磁阀 Solenoid Valve	AML 20	3/4″	20	27	20	65	190	190	125	6	7
	AML 25	1″	25	34	25	65	190	190	125	9	10.5
	AML 32	1¼″	32	42	32	70	215	245	170	16	19
	AML 40	1½″	40	48	40	70	215	245	170	30	35
	AML 50	2″	50	60	50	70	220	255	180	40	47
	AML 65	2½″	65	76	65	85	245	295	220	75	88
	AML 80	3″	80	89	80	95	265	330	250	140	164
	AML 100	4″	100	108	100	125	300	415	330	200	234

恒压导阀ACVP-L & ACVP-M

Pressure Control Pilots ACVP-L & ACVP-M



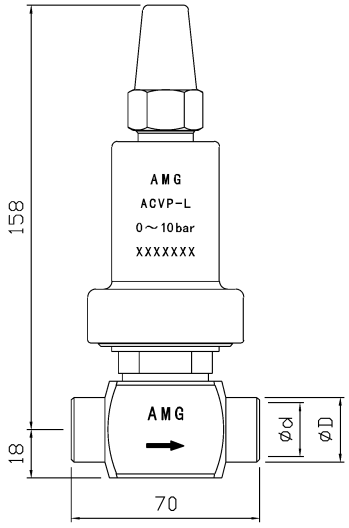
技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃～ +120℃
Applicable temperature: −50℃ ～ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.



特点 Characteristics

- 导阀ACVP–L用于恒压压力调节阀，可直接安装在主阀AM1或AM3上，也可以与外置管中的CVH阀座安装，用于控制一个或几个AM或RAK阀。
  The Pilots ACVP-L are used as constant pressure regulators, mounted directly over main valves AM1 or AM3. They can be also mounted on a housing valve EC type CVH in an external line to control one or more AM or RAK valves.

- 导阀ACVP–L和ACVP–M，都工作于低压条件，但压力调节范围不同：
  ACVP–L： 0 Bars～10 Bars
  ACVP–M：−0.65 Bars～7 Bars
  The Pilots ACVP-L & ACVP-M both working in lower pressure, but in different range of regulation:
  ACVP-L: 0 Bars to l0 Bars
  ACVP-M: - 0.65 Bars to 7 Bars

- 顺时针转动阀轴，可增加导阀的开启压力（即蒸发压力和温度），当逆时针转动阀轴，即减少导阀的开启压力。
  Turning the regulating spindle clockwise to increase the opening pressure of the pilot, (thus the evaporating pressure and temperature), and they decrease when we turn the spindle anticlockwise

- 此导阀用于保持AM主阀进口压力恒定，低压型ACVP–L应避免振动影响。
  Pilot valves are used to keep the inlet pressure of AM main valve constant. The low-pressure ACVP-L should avoid vibration.

- 当ACVP安装于CVH阀座上时，既可用作单独的恒压阀，也可用作安全压阀。
  When ACVP is installed on the CVH seat, it can be used as either a separate constant pressure valve or a safety pressure valve.

导阀型式 Type	最大工作压力(bar) Max working Pressure	KV(m^3/h)	温度范围(℃) Temperature	压力范围(bar) Pressure
ACVP–L	17	0.4	−50℃+120	0–10
ACVP–M	17	0.4	−50℃+120	−0.65–7

导阀阀座 Seat	L	L1	H	D	d	B
CVH	70	50	35	23.5	NPT3/8	M24x1.5

恒压导阀ACVP-H
Pressure Control Pilots ACVP-H

技术参数 Technical parameters

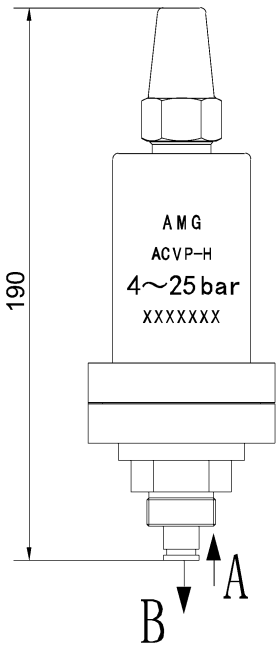
52

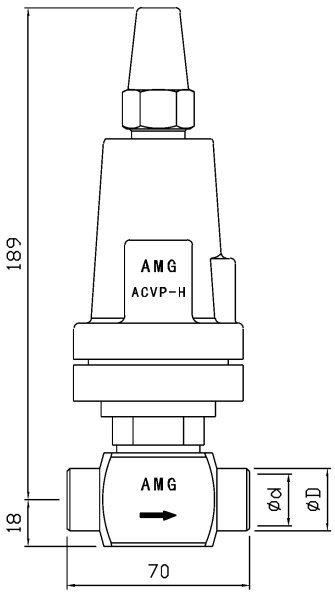
公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.





导阀型式 Type	最大工作压力(bar) Max working Pressure	KV(m^3/h)	温度范围(℃) Temperature	压力范围(bar) Pressure
ACVP−HP	28	0.4	−50℃+120℃	4−25

导阀阀座 Seat	L	L1	H	D	d	B
CVH	70	50	35	23.5	NPT3/8	M24x1.5

特点 Characteristics

- 导阀ACVP−H用于恒压压力调节阀，可直接安装在主阀AM1或AM3上，也可以与外置管中的CVH阀座安装，用于控制一个或几个AM或RAK阀。
  The Pilots ACVP-H are used as constant pressure regulators, mounted directly over main valves AM1 or AM3 but can be also mounted on a housing valve CVH in a external line to control one or more AM or RAK valves.

- 导阀ACVP−H工作于高压条件，压力调节范围为4−25Bars。
  The Pilots ACVP-H working in higher pressure with a range of 4 Bars to 25 Bars.

- 顺时针转动阀轴，可增加导阀的开启压力(即冷凝压力和温度)，当逆时针转动阀轴，即减少导阀的开启压力。
  Turning the regulating spindle clockwise to increase the opening pressure of the pilot, (thus the condensating pressure and temperature), and they decrease when we turn the spindle anticlockwise

- ACVP−H导阀用于保持AM主阀进口压力恒定。也可用作安全阀，例如用于防止积液的存在导致压力过高。
  ACVP-H pilot valve is used to keep AM main valve inlet pressure constant. It can also be used as a safety valve. For example, to prevent excessive pressure due to the presence of effusion.

- 用在低于−50℃的环境温度下时，螺丝必须要更换为不锈钢螺栓。
  Must use stainless steel bolts when it is used at ambient temperature below - 50 C.

压差导阀ACVPP
Pressure Control Pilots ACVPP

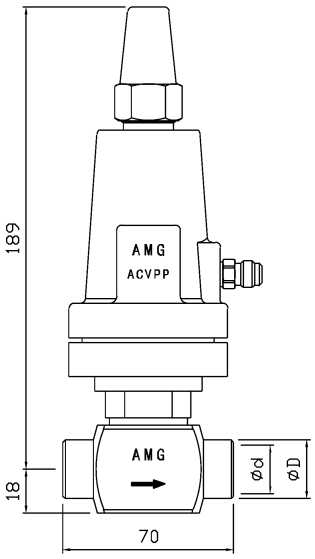
技术参数 Technical parameters

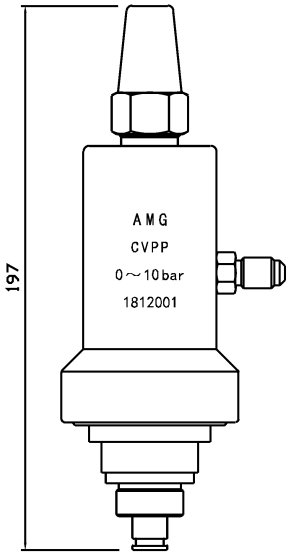
公称压力：2.8MPa
Nominal pressure: 2.8MPa

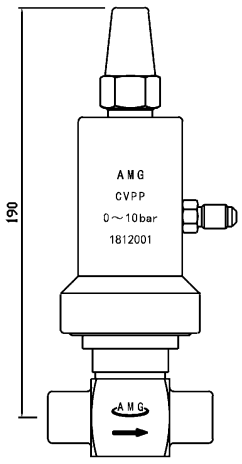
适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.







特点 Characteristics

- 导阀ACVPP用于压差压力调节阀，可直接安装在主阀AM1或AM3上，也可以与外置管中的CVH阀座安装，用于控制一个或几个AM或RAK阀。
  The Pilots ACVPP are used as differential pressure regulators, mounted directly over main valves AM1 or AM3. They can be also mounted on a housing valve CVH in an external line to control one or more AM or RAK valves.

- 导阀ACVPP用于控制于压差，压力调节范围为0Bars—10Bars
  The Pilots ACVPP working by differential pressure with a range of 0 Bars to 10 Bars.

- 顺时针转动阀轴，可增加导阀的开启压力(即蒸发压力和温度)，当逆时针转动阀轴，即减少导阀的开启压力。
  Turning the regulating spindle clockwise to increase the opening differential pressure of the pilot, (thus the evaporating pressure and temperature) and it decreases when we turn the spindle anticlockwise.

- 此导阀用于保持AM进口压力和ACVPP参考压力之间差恒定。
  Pilot valve is used to keep the difference between AM inlet pressure and ACVPP reference pressure constant.

导阀型式 Type	最大工作压力(bar) Max working Pressure	KV(m^3/h)	温度范围(℃) Temperature	压力范围(bar) Pressure
ACVPP	28	0.4	−50℃+120℃	0—10

导阀阀座 Seat	L	L1	H	D	d1	B
CVH	70	50	35	23.5	NPT3/8	M24x1.5

吸气压力控制导阀ACVC
Pressure Control Pilots ACVC

技术参数 Technical parameters

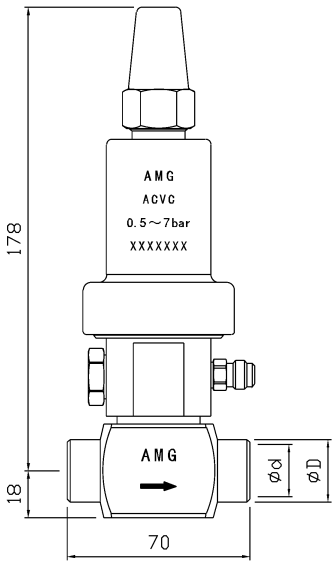
52

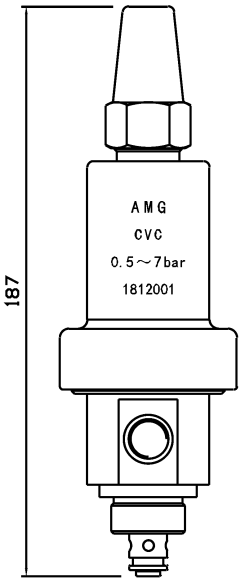
公称压力：2.8MPa
Nominal pressure: 2.8MPa

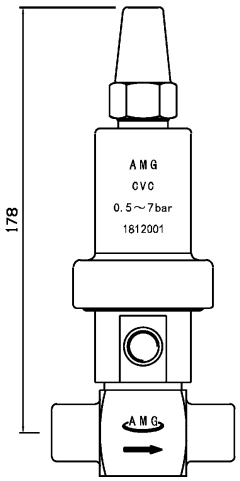
适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.







特点 Characteristics

- 导阀ACVC用于下游压力调节阀，可直接安装在主阀AM1或AM3上，也可以与外置管中的CVH阀座安装，用于控制一个或几个AM阀。
  The Pilots ACVC are used as downstream pressure regulators, mounted directly over main valves AM1 or AM3. They can be also mounted on a housing valve CVH in an external line to control one or more AM valves.

- 导阀ACVC工作压力调节范围是0.5Bars—7Bars。
  The Pilots ACVC working by a range of pressure regulation of 0,5 Bars to 7 Bars.

- 顺时针转动阀轴，可增加导阀的开启压力(例如吸气压力)，当逆时针转动阀轴，即减少导阀的开启压力。
  Turning the regulating spindle clockwise to increase the opening pressure of the pilot, (For exmple the suction pressure) and it decreases when we turn the spindle anticlockwise

- ACVC结合AM主阀起最大吸气压力调节作用，例如用于压缩机曲轴箱压力调节。
  ACVC combines AM main valve to regulate maximum suction pressure, such as crankcase pressure of compressor.

- 参考压力必须接在系统低压侧。
  The reference pressure must be connected to the low pressure side of the system.

导阀型式 Type	最大工作压力(bar) Max working Pressure	KV(m^3/h)	温度范围(℃) Temperature	压力范围(bar) Pressure
ACVC	28	0.4	−50℃+120℃	0.5—7

导阀阀座 Seat	L	L1	H	D	d1	B
CVH	70	50	35	23.5	NPT3/8	M24x1.5

电磁导阀AEVM-NC & AEVM-NO
AEVM-NC & AEVM-NO Solenoid Pilots

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52

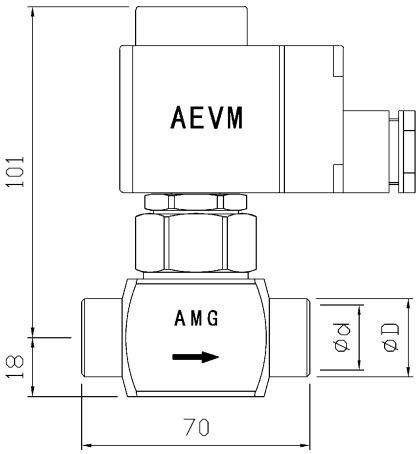
技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.



特点 Characteristics

- 导阀AEVM用于启闭主阀的电磁导阀，可直接安装在主阀AM1或AM3上，也可以与外置管中的CVH阀座安装，用于控制一个或几个AM或RAK阀。
  The pilots AEVM are used as a shut-off solenoid pilot mounted directly over main valves AM1 or AM3. They can be also mounted on a housing valve EC type CVH in an external line to control one or more AM or RAK valves.

- 导阀AEVM—NC的MOPD是21bar，而AEVM—NO是19bar。
  The MOPD of the pilots AEVM-NC is 21 bar. AEVM-NO19 is bar.

- 标准的NC和NO线圈是电源为AC220V—50／60Hz带接头DIN43650的封装线圈。
  The standard coil NC and NO type is AC 220V-50/60Hz and they are supplied with a DIN 43650 plug.

- EVD是对AM主阀进行启闭调节的电磁导阀，当安装于CVH阀座上，可作为独立的电磁阀使用。
  EVD is a pilot valve which regulates the opening and closing of AM main valve. When installed on CVH seat, it can be used as an independent solenoid valve.

导阀型式 Type	电压V Voltage	频率HZ Frequency	电流A Current	功率W Power
线圈Coil	220—230	50／60	A.C	10

导阀型式 Type	最大工作压力(bar) Max working pressure	KV(m^3/h)	最大开启压差(bar) Max △p
AEVM	28	0.37	21

导阀阀座 Seat	L	L1	H	D	d1	B
CVH	70	50	35	23.5	NPT3／8	M24x1.5

压力调节阀系列功能实例
Pressure Regulators Functional Example

组合类型 Combination type	型　号 Model	功　能 Function	动　作 Action	应　用 Application
标准恒压调节阀 Standard constant pressure regulator	RSA	入口压力控制 Control inlet pressure	入口压力高于设定值时开启 Open if inlet pressure higher than the set pressure	任何入口压力控制冷凝压力控制 Any onlet pressure control Condensing pressure control
带强制关闭功能调节阀 Pressure regulator with electric shut-off	RSAS	入口压力控制或关闭调节阀 Control inlet pressure or shut off the regulator	得电时调节，失电时关闭 Control the valve when coil is energized. Valve is closed when the coil is currentless	温度控制开启除霜时关闭 Control the valve throught the temperature.Valve closed during defrosting
带强制全开功能调节阀 Pressure regulator & electric shut-off	RSAB	入口压力控制或全开调节阀 Control inlet pressure or shut off the regulator	失电时调节，得电时全开 Control the valve when coil is currentless. Valve is fully open when the coil is energized	温度控制时调节融霜控制 Control the valve throught the temperature. Control defrosting
双压力控制调节阀 Dual pressure regulator	RSAD	双压力控制调节阀 Control inlet pressure	得电时低压调节失电时高压调节 Low pressure regulating if coil is energized. High pressure regulating if coil is currentless	高压除霜内部压力释放 High pressure defrosting
出口压力调节 Crankcase presure regulator	RSAO	控制出口压力 Control outlet pressure	出口压力设定，可现场调整，出口压力下降时打开 Set the outlet pressu, can regulate on site, open when the outlet pressure decrease	曲轴箱压力调节热气旁通储液器压力控制 Crankcase presure control Hot gas bypass Reservoir pressure control
压差调节 Differential pressure regulator	RSAL	维持设定的压差 Maintain the set differential pressure	当压力差低于设定值时调节压力差 Control differential pressure when it is lower than set pressure	供液泵泄压调节冷凝器与储液器压差 Liquid pump releif controlling Differential pressure controlling of condenser and reservoir
压差调节带电磁启闭 Differencial pressure regulator & electric shut-off	RSABL	保持阀进出口压差并可以压力调节 Maintain the inlet differentail pressure & control the pressure	得电时制冷失电时化霜 Refrigerating when coil is energized, defrosting when coil is currentless	热气融霜内部压力释放 Hot gas defrosting Internal pressure relief
电磁阀 Solenoid valve	AML	系统管路全开或关闭 System fully open or shut-off	得电时全开失电时关闭 Fully open when coil is energized, shut-off when coil is currentless	吸气管路液体管路热气除霜 Suction pipelineLiquid pipline Hot gas defrosting
气动阀 Gas powered stop valve	RAK	常开型气动关闭 Normally open, gas powered shut-off	得电时关闭 Shut-off when coil is energized	回气管路以及需要短时间关闭场所 Suction line Temporarily closed situation
气动阀 Gas powered stop valve	RACK	常闭型气动打开 Normally closed, gas powered open	得电时全开 Fully open when coil is energized	热气融霜 ，液泵循环 以及短时间需要自动打开的应用场所 Hot gas defrosting Pump recirculation Temporarily open situation
气动阀 Gas powered stop valve	RAXK	二步式常闭气动打开 Two steps normally clsoed, gas powered open	第一步线圈得电打开10%，第二步全开 Step1, 10% open when coil is energized Step2, fully open	化霜回气管路以及外置管路压力小于进口压力时仍需要自动关闭的场所 Suction line need to close if external pressure lower than the inlet pressue

以上是压力调节阀的常用配置，如需要其它组合，请与AMG公司联系。
If need other kinds of regulators+, please contact with AMG.

主阀AM1系列
Main Valves AM1 Series

技术参数 Technical parameters

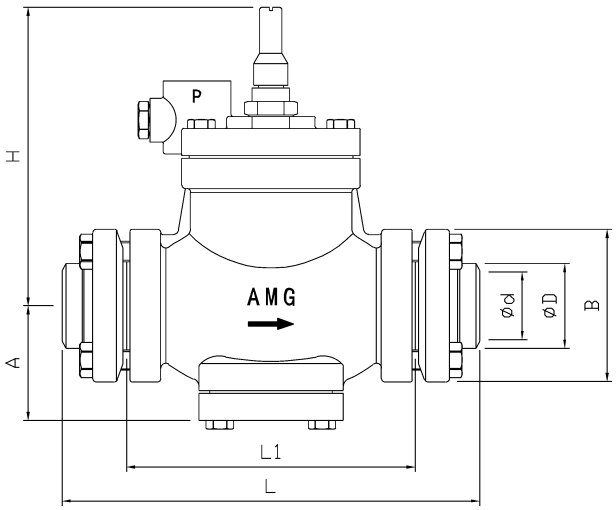
52

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.



特点 Characteristics

- 流量调节阀，由通过螺纹连接在主阀或连接在外置的导阀管上的不同的导阀来实现。
  Flow regulating valves, servo-operated by different pilot valves screwed-in the main valve or mounted in an external pilot line.
- AM1设计用于氨和其它常用的氟里昂制冷剂，可用于液管回汽管，排气管或化霜管。此阀只有一个导阀连接口，故只能与一个导阀螺纹连接。
  The AM1 are designed to use with ammonia and other common fluorinated refrigerants, for liquid, suction, discharge or defrosting lines. They have one port only, thus, can only screw-in one pilot valve only.
- 与主阀螺纹连接的是M24x1.5，压力表连接是1/4″ BSP。
  The thread to screw-in the pilot valves is M24x1.5, and the pressure gauge thread is 1/4"BSP.
- AM1阀的开启度与进出口压力差有关，所以如果压差Δp=0.3bar，主阀会全开；如果压差Δp=0.2～0.3bar此时阀的开启度与压差Δp成比例变化。
  The degree of opening of AM1 valves is function of the differential pressure between the inlet and outlet, so if the pressure difference is Δp = 0.3 bar, the main valve will be fully open, and if it is Δp = 0.2~ 0.3 bar, the degree of opening will be correspondingly proportional to Δp.

名称 Name	型号 Type	尺寸(mm) Size(mm)								kv	Cv
		DN		ϕD	ϕd	A	H	L	L1		
AM1 主阀系列 Main Valves Series	AM1 20	3/4″	20	27	20	65	150	190	125	6	7
	AM1 25	1″	25	34	25	65	150	190	125	9	10.5
	AM1 32	1¼″	32	42	32	70	175	245	170	16	19
	AM1 40	1½″	40	48	40	70	175	245	170	30	35
	AM1 50	2″	50	60	50	70	180	255	180	40	47
	AM1 65	2½″	65	76	65	85	205	295	220	75	88
	AM1 80	3″	80	89	80	95	225	330	250	140	164
	AM1 100	4″	100	108	100	125	260	415	330	200	234

主阀AM3系列
Main Valves AM3 Series

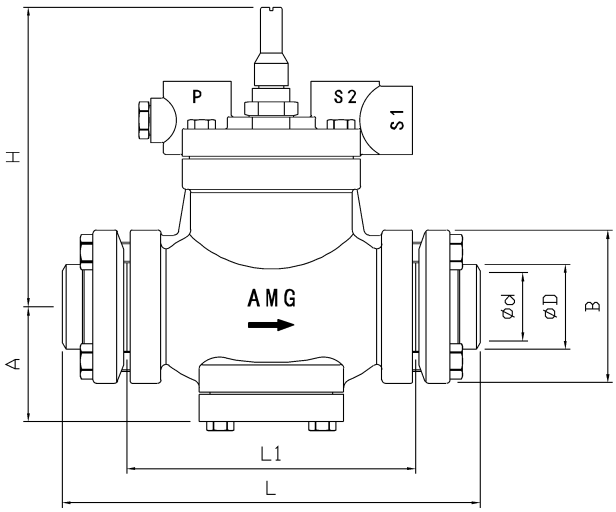
技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.



特点 Characteristics

- 流量调节阀，由通过螺纹连接在主阀或连接在外置的导阀管上的不同的导阀来实现。
  Flow regulating valves, servo-operated by different pilot valves screwed-in the main valve or mounted in an external pilot line.
- AM3设计用于氨和其它常用的氟里昂制冷剂，可用于液管回汽管，排气管或化霜管。AM3阀有三个导阀连接口：P，S1和S2，故能与二个或三个导阀螺纹连接。
  The AM3 are designed to use with ammonia and other common fluorinated refrigerants, for liquid, suction, discharge or defrosting lines, and they have three ports, P,S1 and S2, to screw-in two or three pilot valves.
- 螺纹连接在AM3上的导阀之间的关系如下：
  =在连接口上的S1&S2是串接，这样只要连接的一个导阀关闭，主阀就关闭；只有二个导阀同时打开，主阀将打开。
  =在螺纹连接的P连接口，与连接口S1&S2上的导阀是并联连接。只要P连接的导阀打开，不管S1或S2上的导阀是打开还是关闭，主阀AM3就打开；只要P上的导阀关闭，而且S1或S2上的导阀至少有一个是关闭的，主阀就关闭。
  The relations between the ports where it is possible to screw-in the pilot valves on the AM3, are showing below:
  = The pilot valves on the ports S1 and S2 are connected in series. The main valve will be closed if any one of the pilot is closed. The main valve will be opened if both of the pilots are openned.
  = The pilot valve screwed-in P, is connected in parallel with the pilot valves in ports S1 & S2, so the AM3 valve will be open if the pilot in P is open, irrespective if the S1 or S2 pilot valves, are open or closed. The main valve will be closed if the pilot in P is closed and at least one of the pilot valves in S1 or S2, are closed at the same time.
- AM3阀的开启度与进出口压力差有关，所以如果压差是Δp=0.3bar，主阀会全开；如果压差Δp=0.2～0.3bar此时阀的开启度与压差Δp成比例变化。
  The degree of opening of AM3 valves is function of the differential pressure between the inlet and outlet, so if the pressure difference is Δp = 0.3 bar, the main valve will be fully open, and if it is Δp = 0.2 - 0.3 bar, the degree of opening will be correspondingly proportional to Δp.

名称 Name	型号 Type	尺寸(mm) Size(mm)								kv	Cv
		DN		ϕD	ϕd	A	H	L	L1		
AM3 主阀系列 Main Valves Series	AM3 20	3/4″	20	27	20	65	150	190	125	6	7
	AM3 25	1″	25	34	25	65	150	190	125	9	10.5
	AM3 32	1¼″	32	42	32	70	175	245	170	16	19
	AM3 40	1½″	40	48	40	70	175	245	170	30	35
	AM3 50	2″	50	60	50	70	180	255	180	40	47
	AM3 65	2½″	65	76	65	85	205	295	220	75	88
	AM3 80	3″	80	89	80	95	225	330	250	140	164
	AM3 100	4″	100	108	100	125	260	415	330	200	234

恒压调节阀RSA系列
Constant Pressure Regulators RSA Series

技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.

特点 Characteristics

- RSA型是由一个主阀AM1和一个0~10bar调节导阀ACVP−L组成的标准可选阀RSA−L。另有配-0.65~7barACVP−M可选阀RSA−M型和配4~25barACVP−H的可选RSA−H型

  RSA is made up of one main valve AM1 and one pilot valve. Different pilot valves can make different regulators: AM1+ACVP-L (0 to 10 bars) can make RSA-L, AM1+ACVP-M (0.65 to 7 bars) can make RSA-M, AM1+ACVP-H (4 to 25 bars) can make RSA-L.
- 恒压调节阀RSA型可以提供工厂设定的RSA−L,RSA−M和RSA−H可选项

  The pressure of RSA series can be set based on orders in the factory before delivery.

运行原理 Operation

- 恒压调节阀RSA控制主阀的进口压力，当压力超过控制导阀的压力设定值时阀开启，这样装置中内部压力释放，从而起到装置保护作用

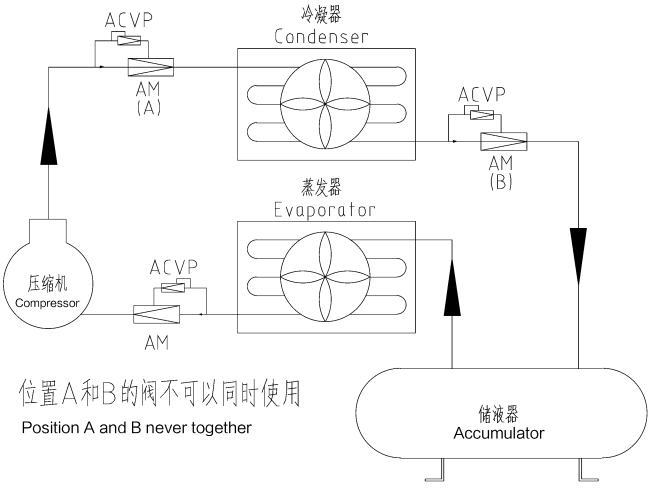
  The pressure regulators RSA series control the inlet pressure of main valve. They are opened when the pressure exceeds the set pressure on the control pilot, so relieving the inside pressure to protect.

- 当导阀打开，进口流体进入阀活塞的顶部，此时主阀打开。

  When the pilot open, the inlet fluid pass to the top of piston to open the main valve.

- 当进口压力减少并低于导阀的压力设定值时，压力调节主阀再次关闭。

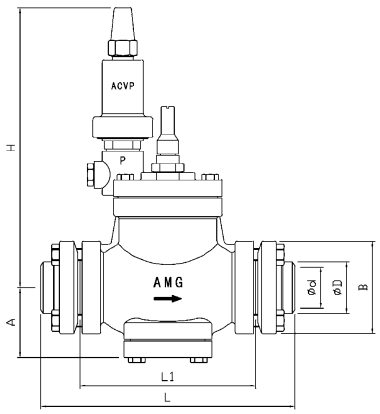
  The pressure regulators close again, When the inlet pressure decreases below the set pressure on the pilot



应用 Applications

- 压力调节阀 RSA设计适合于氨和其它的氟利昂制冷剂，用于控制蒸发压力，冷凝压力，任何容器或任何系统部位的压力，确保此处的压力低于导阀的压力设定值

  The pressure regulators RSA are designed to work with ammonia and other fluorinated refrigerants, to control evaporator pressure, condensing pressure, pressure invessels or pressure in any portion of the system, keeping this one below of the set pressure of the pilot



名称 Name	型号 Type	尺寸(mm) Size(mm)					
		ϕD	ϕd	A	H	L	L1
RSA 恒定压力调节阀 Constant Pressure Regulators	RSA 20	27	20	65	250	190	125
	RSA 25	34	25	65	250	190	125
	RSA 32	42	32	70	275	245	170
	RSA 40	48	40	70	275	245	170
	RSA 50	60	50	70	280	255	180
	RSA 65	76	65	85	305	295	220
	RSA 80	89	80	95	325	330	250
	RSA 100	108	100	125	360	415	330

压差压力调节阀RSAL系列
Differential Pressure Regulators RSAL Series

技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.

特点 Characteristics

- RSAL压力调节阀是由一个AM1和一个调节导阀ACVPP组成。类 似地我们可以提供与电磁导阀NC型连接的外置热气连接的RSALE型

  RSAL is make up of one AM1 and one pilot valve ACVPP. For similar aplication is available to supply the regulator RSALE，with one external hot gas connection controlled by mean of a solenoid pilot NC type

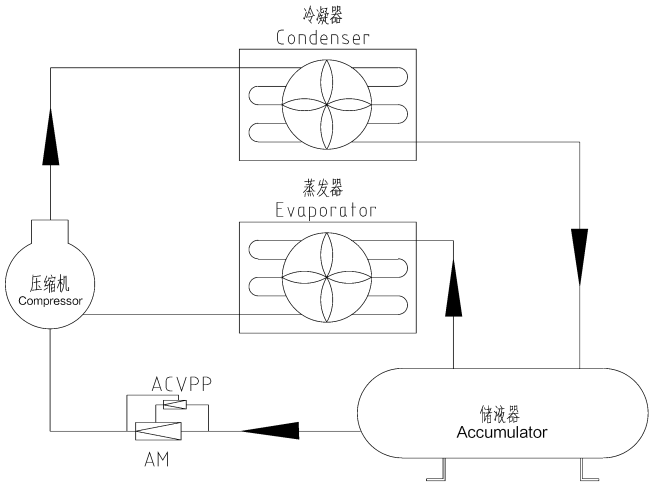
运行原理 Operation

- 压力调节阀RSAL用于保持主阀进出口压差。而且可以实现压力调节，也就是说该阀会根据进出口压差与设定值相比的大小而开启和关闭

  The pressure regulator RSAL series can maintain the differential pressure between inlet and outlet of main valve. It can also regulate the pressure. That means, regulator will open or close based on the comparision of the differential pressure and the set pressure.

- 借助于热气，不依赖于主阀进出口压差，其变型RSALE允许打开主阀

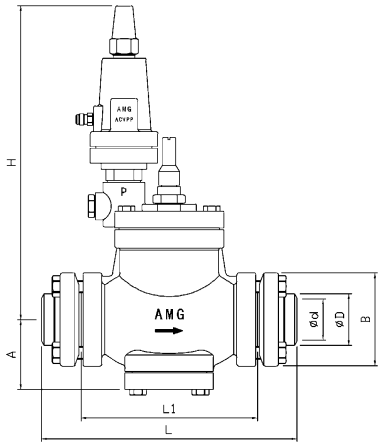
  The varlant RSALE regulators allow to open the main valve by the supply of hot gas，with independence of the differential pressure between inlet and outet pressure of the main valve



应用 Applications

- 调节压力阀RSAL设计适合于氨和其它氟利昂制冷剂，通常该阀用于液体泵泄露和其它的系统的压差控制。例如压缩机的回汽和排气压力差，冷凝器和储液器的压差等。

  The regulators RSAL are designed to work with ammonia and other fluorinated refrigerants and commonly used as liquid pumps relief, and other aplications to control the pressure differences. For example, between suction and discharge in compresors, condenser and receiver etc



名称 Name	型号 Type	尺寸(mm) Size(mm)					
		ϕD	ϕd	A	H	L	L1
RSAL 压差压力调节阀 Differential Pressure Regulators	RSAL 20	27	20	65	280	190	125
	RSAL 25	34	25	65	280	190	125
	RSAL 32	42	32	70	305	245	170
	RSAL 40	48	40	70	305	245	170
	RSAL 50	60	50	70	310	255	180
	RSAL 65	76	65	85	335	295	220
	RSAL 80	89	80	95	355	330	250
	RSAL 100	108	100	125	390	415	330

带电磁关闭压力调节阀RSAS系列
Pressure Regulators,with electric shut-off RSAS Series

技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine,propane, etc.

特点 Characteristics

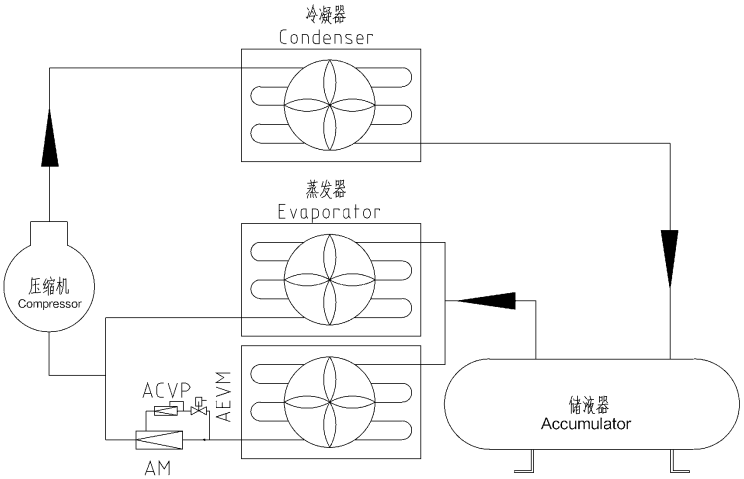
- RSAS是由一个主阀AM3和一个0~10bar调节导阀ACVP−L组成的标准可选阀RSAS型。另有配4~25bar调节导阀ACVP−H型可选阀RSAS−H型。该阀还配有一个电磁导阀AEVM−NC，当线圈失电时，导阀ACVP不起作用，主阀关闭

  RSAS is made up of one main valve AM3 and one pilot valve. Different pilot valves can make different regulators: AM3+ACVP-L (0 to 10 bars) can make RSAS, AM3+ACVP-H (4 to 25 bars) can make RSAS-H. This regultor also comined with one solenoid pilot AEVM-NC. When the coil is currentless, pilot ACVP does not work, main valve closes.

- 压力调节阀RSAS系列，根据订单要求可以提供RSAS−L和RSAS−H可选，不同的压力设定在工厂设定，该系列阀配有电磁导阀AEVM－NO

  The pressure of RSAS series can be set based on orders in the factory before delivery. We can also supply the regulator with solenoid valve AEVM-NO by order.

运行原理 Operation



- 同压力调节阀RSA系列一样，压力调节阀RSAS系列控制主阀的进口压力。当压力超过控制导阀的设定压力时，该阀开启。但以上动作只是电磁导阀的线圈得电时才起作用。

  Same as the RAS regulators, the pressure regulators RSAS, control the inlet pressure of main valve. Regulators open when the pressure exceeds the set pressure on the control pilot, but only if the coil of the solenoid pilot have been energized.

- 当导阀开启，进口流体进入活塞的上部，打开主阀

  When the pilot open, the inlet fluid pass to the top of piston to open the main valve.

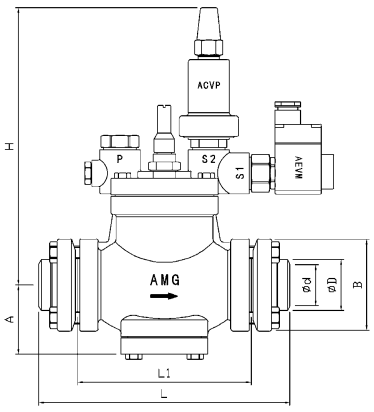
- 当进口压力低于导阀的压力设定值，或电磁导阀线圈失电时，压力调节阀再次关闭

  The pressure regulators close again when the inlet pressure decreases below the set pressure on the pilot, or the coil of solenoid pilot have been de-energized.

应用 Applications

- 压力调节阀RSAS的设计适合于氨和其它的氟利昂制冷剂，用于控制温度，阀的开启或化霜，通过主阀的流体关闭。

  The pressure regulators RSAS are designed to work with ammonia and other fluorinated refrigerants, to control temperature, opening the valve or defrost, dosing the pass of fluid through the main valVe



名称 Name	型号 Type	尺寸(mm) Size(mm)					
		ϕD	ϕd	A	H	L	L1
RSAS 带电磁关闭压力调节阀 Pressure regulators with electric shut−off	RSAS 20	27	20	65	250	190	125
	RSAS 25	34	25	65	250	190	125
	RSAS 32	42	32	70	275	245	170
	RSAS 40	48	40	70	275	245	170
	RSAS 50	60	50	70	280	255	180
	RSAS 65	76	65	85	305	295	220
	RSAS 80	89	80	95	325	330	250
	RSAS 100	108	100	125	360	415	330

压力调节阀&电磁关闭阀RSAB系列
Pressure Regulators & Electric Shud-Off RSAB Series

技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

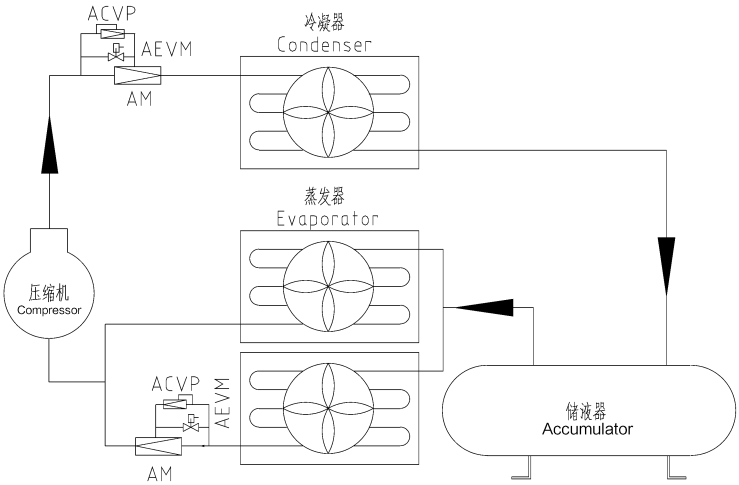
适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.

特点 Characteristics

- RSAB是由一个主阀AM3和一个0~10bar调节导阀ACVP−L组成的标准可选阀RSAB型。另有配4~25bar调节导阀ACVP−H型可选阀RSAB−H型。该阀还配有一个电磁导阀AEVM−NC，当电磁导阀线圈得电时，主阀全开。
  RSAB is made up of one main valve AM3 and one pilot valve. Different pilot valves can make different regulators: AM3+ACVP-L (0 to 10 bars) can make RSAB, AM3+ACVP-H (4 to 25 bars) can make RSAB-H. This regultor also comined with one solenoid pilot AEVM-NC. When the coil is energized, main valve wide open.
- 压力调节阀RSAB系列，可以提供RSAB−L和RSAB−H可选，不同的压力标定在工厂设定
  The pressure of RSAB series can be set based on orders in the factory before delivery.

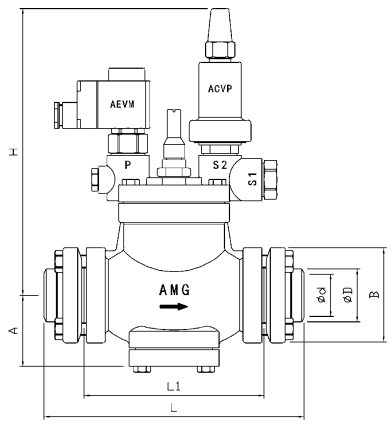
运行原理 Operation

- 同压力调节阀RSA系列一样，压力调节阀RSAB系列控制主阀的进口压力。当压力超过控制导阀的设定压力时，该阀开启。但电磁导阀的线圈得电时，不依赖于主阀进口压力，主阀全开。
  Same as RSA regulators, the pressure regulatots RSAB，control the inlet pressure of main valve．Regulators open when the pressure exceeds the set pressure on the control pilot．But if the coil of the solenoid pilot have been energized the main valve will be wide open，with independence of the inlet pressure.
- 当导阀开启，或电磁阀线圈得电，进口流体进入活塞的上部，打开主阀
  When the pilot open，or the solenoid is energized，the inlet fluid pass to the top of piston to open the main valve.
- 当进口压力低于导阀的压力设定值，或电磁导阀线圈失电时，压力调节阀再次关闭
  The main valves close again，when the inlet pressure decreases below the set pressure of the pilot，or the coil of solenoid pilot have been de-energized.



应用 Applications

- 压力调节阀RSAB的设计适合于氨和其它的氟利昂制冷剂，用于化霜和温度控制，主阀可以全开以取得最大的制冷效果。
  The regulators RSAB are designed to wotk with ammonia and other fluorinated refrigerants，to defrost and temperature control，with wide open possibility for maximum cooling.



名称 Name	型号 Type	尺寸(mm) Size(mm)					
		ϕD	ϕd	A	H	L	L1
RSAB 压力调节& 电磁关闭阀 Pressure regulator & electric shut−off	RSAB 20	27	20	65	280	190	125
	RSAB 25	34	25	65	280	190	125
	RSAB 32	42	32	70	305	245	170
	RSAB 40	48	40	70	305	245	170
	RSAB 50	60	50	70	310	255	180
	RSAB 65	76	65	85	335	295	220
	RSAB 80	89	80	95	355	330	250
	RSAB 100	108	100	125	390	415	330

压力调节&气动调节阀RSABEU系列
Pressure Regulators & Gas Powered regulators RSABEU Series

技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.

特点 Characteristics

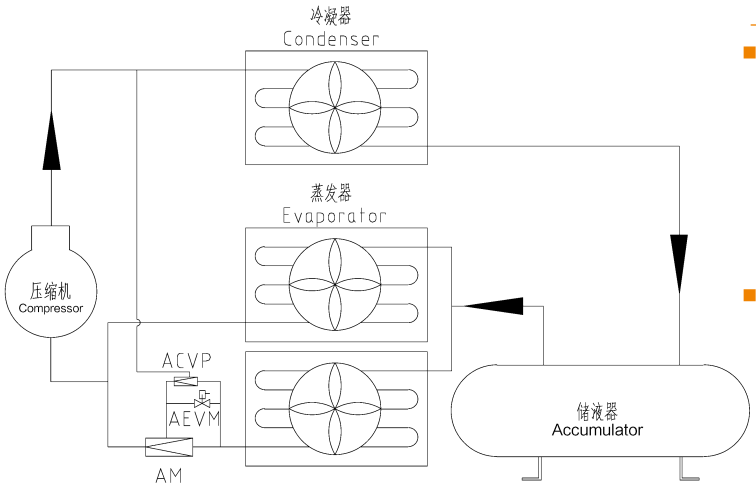
- RSABEU是由一个主阀AM3和一个0~10bar调节导阀ACVP−L组成的标准可选阀RSAB型。另有配4~25bar调节导阀ACVP−H型可选阀RSABEU−H型。该阀还配有一个通过电磁导阀AEVM−NC连接的外置热气进口。当电磁导阀线圈得电时，不依赖于主阀进口压力，主阀全开

  RSABEU is made up of one main valve AM3 and one pilot valve. Different pilot valves can make different regulators: AM3+ACVP-L (0 to 10 bars) can make RSABEU, AM3+ACVP-H (4 to 25 bars) can make RSABEU-H. This regultor also connects with an external hot gas inlet through the solenoid pilot AEVM-NC. When the coil is energized, main valve wide open without the inlet presssure.

- 压力调节阀RSABEU系列，可以提供RSABEU− L 和RSABEU−H可选，不同的压力标定在工厂设定

  The pressure of RSABEU series can be set based on orders in the factory before delivery.

运行原理 Operation



- 同压力调节阀RSA系列一样，压力调节阀RSABEU系列控制主阀的进口压力。当压力超过控制导阀的设定压力时，该阀开启。但电磁导阀的线圈得电时，不依赖于主阀进口压力，主阀全开

  Same as RSA regulators, the pressure regulators RSABEU, control the inlet pressure of main valve. Regulators open this one when the pressure exceeds the set pressure on the control pilot. But if the coil of the solenoid pliot have been energized the main valve will be wide open, with independence of the inlet pressure.

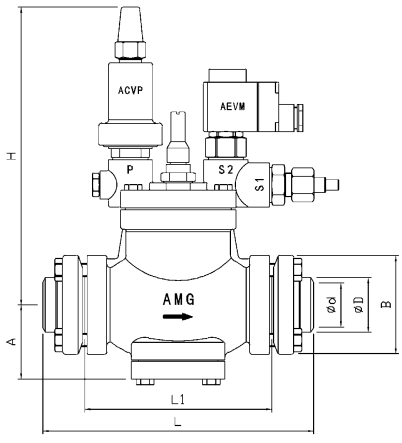
- 当进口压力低于导阀的压力设定值，或电磁导阀线圈失电时，压力调节阀再次关闭

  The main valves close again, when the inlet pressure decreases below the set pressure of the pilot, or the coil of solenoid pilot have been de-energized

应用 Applications

- 压力调节阀RSABEU的设计适合于氨和其它的氟利昂制冷剂，用于控制温度，可以低至−40℃及以下蒸发器的蒸发压力。

  The regulators RSABEU are designed to work with ammonia and other fluorinated refrigerants, to control the evaporation pressure at multi evaporators working above -40℃



名称 Name	型号 Type	尺寸(mm) Size(mm)					
		ϕD	ϕd	A	H	L	L1
RSABEU 压力调节& 气动调节阀 Pressure regulator & Gas powered regulators	RSABEU 20	27	20	65	250	190	125
	RSABEU 25	34	25	65	250	190	125
	RSABEU 32	42	32	70	275	245	170
	RSABEU 40	48	40	70	275	245	170
	RSABEU 50	60	50	70	280	255	180
	RSABEU 65	76	65	85	305	295	220
	RSABEU 80	89	80	95	325	330	250
	RSABEU 100	108	100	125	360	415	330

曲轴箱压力调节阀RSAO系列
Crankcase Pressure Regulators RSAO Series

技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.

特点 Characteristics

■ RSAO是由一个AM1和导阀ACVC组成一个基本型号。有几种简单的组合

RSAO is make up of one main valve AM1，and one pilot ACVC as the basic version

■ 对于使用同一个导阀ACVC相似的应用，有以下几种组合：

- RSAOE 由AM1，ACVC+ 位置（E）外连接
- RSAOBE 由AM3，ACVC+ 与电磁导阀连接
- RSAOSE 由AM3，ACVC，经过电磁阀NO或NC，和电磁阀NC热气连接

For similar aplications with the same pilot ACVC is available following variations:

- RSAOE over AM1，ACVC+ extemal connection on(E)
- RSAOBE over AM3，ACVC+ connection with solenoid pilot
- RSAOSE over AM3，ACVC, through one solenoid pilot NO or NC，and hot gas connection with solenoid pilot NC

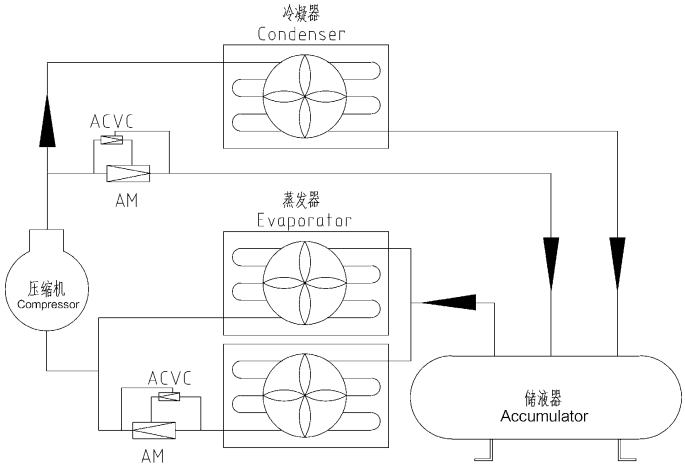
运行原理 Operation

■ 压力调节阀RSAO控制主阀的下游压力。当出口压力低于控制导阀ACVC的设定压力时，该阀开启。对于变型RSAOE，RSAOBE和RSAOSE，如果热气经过活塞的顶部，主阀可以全开，而与出口压力无关。对于最后的一个型号RSAOSE，如果与ACVC一起的电磁阀的线圈得电(NO时)或失电(NC时)，主阀全关闭

The range of pressure regulators RSAO type，control the downstream pressure of main valve. Regulators open when the outlet pressure falls below the set point of the ACVC. With the variations RSAOE，RSAOBE，RSAOSE，is possible to wide open the main valve with independence of the outlet pressure if hot gas pass to the top of piston. The last option RSAOSE，can be totally closed if the coil of the solenoid coupled to ACVC is energized(NO)or de-nergized(NC)

■ 当进口压力高于导阀ACVC的压力设定值，压力调节阀再次关闭

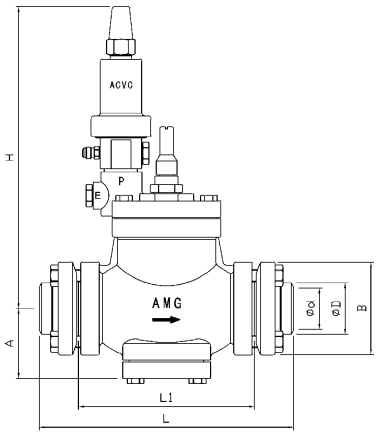
The main valves close again，when the inlet pressure rises over the set point of the pilot ACVC



应用 Applications

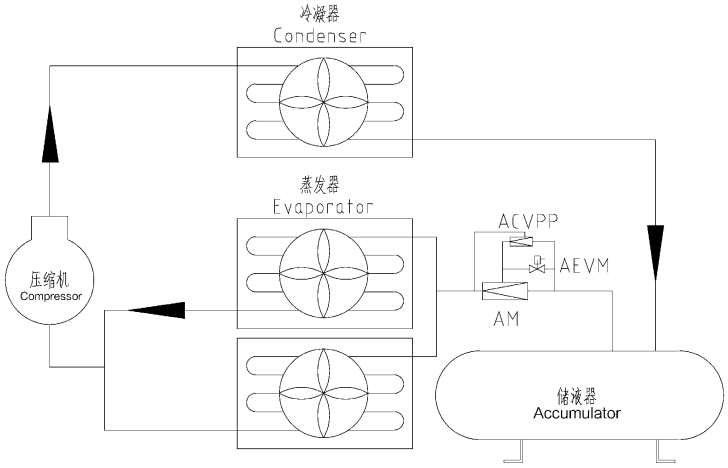
■ 压力调节阀RSAO的设计适合于氨和其它的氟利昂制冷剂，用于避免下游压力低于预定的设定值，来控制冷凝压力，或是作为启动阀，或是作为曲轴箱压力调节阀控制吸气压力。

The regulators RSAO are designed to work with ammonia and other fluorinated refrigerants，working to avoid the pressure downstream falls bellow the set point，to control of condensation pressure or as starting valve or crankcase regulator to control the suction pressure.



名称 Name	型号 Type	尺寸(mm) Size(mm)					
		ϕD	ϕd	A	H	L	L1
RSAO 曲轴箱压力调节阀 Crankcase pressure regulator	RSAO 20	27	20	65	270	190	125
	RSAO 25	34	25	65	270	190	125
	RSAO 32	42	32	70	295	245	170
	RSAO 40	48	40	70	295	245	170
	RSAO 50	60	50	70	300	255	180
	RSAO 65	76	65	85	325	295	220
	RSAO 80	89	80	95	345	330	250
	RSAO 100	108	100	125	380	415	330

压差调节阀＆电磁关闭RSABL系列
Differential Pressure Regulators & Electric Shut-Off RSABL Series



技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.

特点 Characteristics

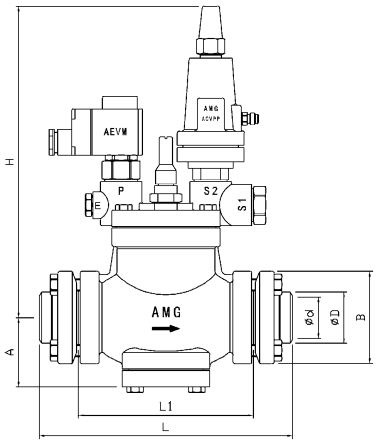
- RSABL是由一个主阀AM3，一个压差导阀ACVPP和一个电磁导阀AEVM−NC组成
  RSABL is make up of one main valve AM3, one differential regulating pilot ACVPP and one solenoid pilot AEVM—NC.
- 可以供应RSABLE压差压力调节阀，此阀的(E)位置与外置热气注入相连，以使主阀全开
  The main valve of RSABL will be wide open when the hot gas is injected through the external connection (E).

运行原理 Operation

- 压力调节阀RSABL，用于保持主阀进出口压差。而且可以实现压力调节，也就是说，该阀会根据进出口压差和与定值相比的大小而开启和关闭
  The pressure regulator RSABL series can maintain the differential pressure between inlet and outlet of main valve. It can also regulate the pressure. That means, regulator will open or close based on the comparision of the differential pressure and the set pressure.
- 当电磁导阀得电时，进口流体进入活塞的顶部，不依赖于主阀进出口压力差，主阀打开
  When the solenoid pilot is energized，the inlet fluid pass to the top of piston，opening the main valve，with independence of the differential pressure between inlet and outlet
- 当进出口压差低于导阀ACVPP的压力设定值，或电磁导阀线圈失电时，主阀再次关闭
  The main valves close again，when the differential pressure between inlet and outlet decreases below the set pressure of the ACVPP，or the coil of solenoid pilot have been de-energized

应用 Applications

- 压力调节阀RSABL的设计适合于氨和其它的氟利昂制冷剂，用于电磁导阀得电时的化霜，保持系统管路中二点的压差，避免冷凝液体和热气的倒流。
  The regulators RSABL are designed to work with ammonia and other fluorinated refrigerants，to defrost with the solenoid pilot enrgized，and to maintain a differential of pressure between two points of the line，to avoid the backward step of condensed and hot gas.



名称 Name	型号 Type	尺寸(mm) Size(mm)					
		ϕD	ϕd	A	H	L	L1
RSABL 压差调节阀& 电磁关闭阀 Differential pressure regulator & solenoid shut−off	RSABL 20	27	20	65	280	190	125
	RSABL 25	34	25	65	280	190	125
	RSABL 32	42	32	70	305	245	170
	RSABL 40	48	40	70	305	245	170
	RSABL 50	60	50	70	310	255	180
	RSABL 65	76	65	85	335	295	220
	RSABL 80	89	80	95	355	330	250
	RSABL 100	108	100	125	390	415	330

双级压力调节阀RSAD系列
Dual Pressure Regulators RSAD Series

技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.

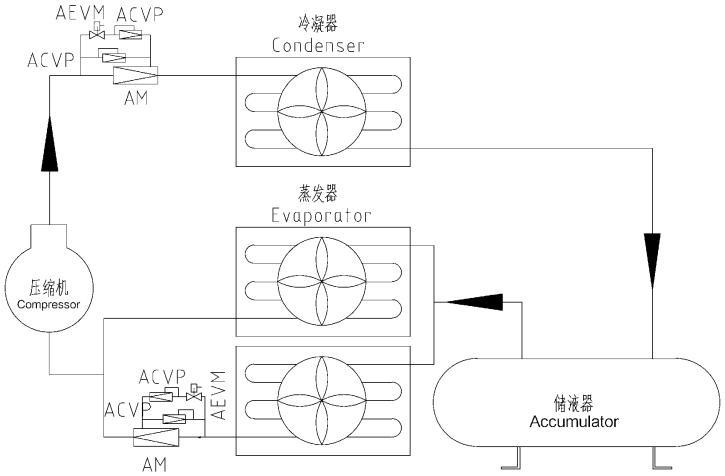
特点 Characteristics

- RSAD是由一个主阀AM3和二个 0 ～10bar调节导阀ACVP–L组成的标准可选阀RSAD型，或另有配置二个 4 ～25bar调节导阀ACVP–H的可选阀RSAD–H型，或者是一个导阀ACVP–L和另一个导阀ACVP–H的可选阀RSAD–LH型。导阀必须设定不同的压力值，在设定值以下的导阀可以根据订单选定的电磁导阀AEVM–NC或AEVM–NO来控制

  RSAD is made up of one main valve AM3 and two pilot valves. Different pilot valves can make different regulators: AM3+ two ACVP-L (0 to 10 bars) can make RSAD, AM3+ two ACVP-H (4 to 25 bars) can make RSAD-H, or AM3+ one ACVP-L (0 to 10 bars)+ one ACVP-H can make RSAD-LH. The pressure must be set. Based on the set pressure, regulator can be controlled by the solenoid valve AEVM-NC or AEVM-NO.

- 压力调节阀RSAD也可以提供变型RSADk，其可选压力可在工厂标定

  The pressure of RSAD series can be set based on orders in the factory before delivery.



运行原理 Operation

- 同二个有不同设定压力的压力调节阀RSA阀一样，压力调节阀RSAD阀控制主阀的进口压力。当进口压力超过控制导阀的设定压力时，而且电磁导阀的线圈(AEVM–NC)得电或(AEVM–NO可选)线圈失电时，该阀开启。

  The pressure regulators RSAD control the inlet pressure of the main valve. Regulators open when the inlet pressure exceeds the set pressure on the control pilot, and the coil of the solenoid pilot have been energized (AEVM-NC)or de-energized(AEVM—NO optiorl).

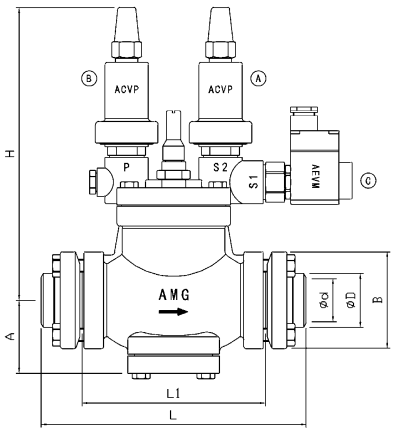
- 当导阀处在开启位置时，进口流体进入活塞的顶部，主阀打开。

  When the pilot in function open，the inlet fluid pass to the top of piston，the main valve opens.

应用 Applications

- 压力调节阀RSAD的设计适合于氨和其它的氟利昂制冷剂，用于控制化霜压力导阀(B)，控制冷凝压力导阀(A)，或是控制蒸发压力，根据导阀的状态，有二种控制可能性。

  The regulators RSAD are designed to work with ammonia and other fluorinated refrigerants，to control of the defrost pressure pilot(B)，control of condensation pressure，pilot(A)，or control of evaporation pressure，with two possibilities acording to the pilot in service



名称 Name	型号 Type	尺寸(mm) Size(mm)					
		ϕD	ϕd	A	H	L	L1
RSAD 双级压力调节阀 Dual pressure regulators	RSAD 20	27	20	65	250	190	125
	RSAD 25	34	25	65	250	190	125
	RSAD 32	42	32	70	275	245	170
	RSAD 40	48	40	70	275	245	170
	RSAD 50	60	50	70	280	255	180
	RSAD 65	76	65	85	305	295	220
	RSAD 80	89	80	95	325	330	250
	RSAD 100	108	100	125	360	415	330

压力调节阀＆气动阀RSABSEU系列
Pressure Regulators & Gas Powered Regulators RSABSEU SET

技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.

特点 Characteristics

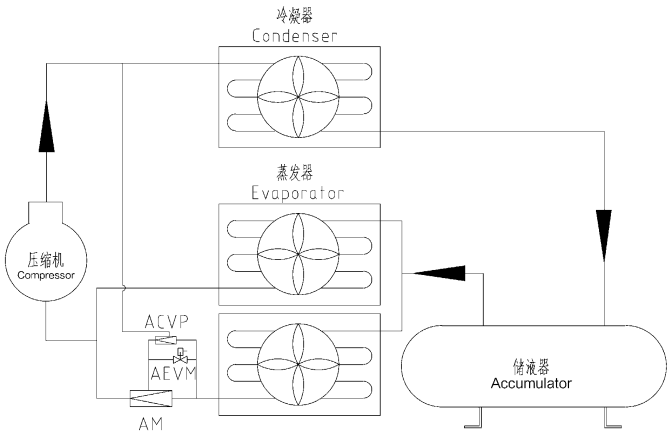
■ RSABSEU是由一个主阀AM3和二个导阀组成：

1．一个0～10bar调节导阀ACVP–L组成的标准可选阀RSABSEU型，或一个4～25bar调节导阀ACVP–H组成的可选阀RSABSEU–H型。以上两种阀还配有一个电磁导阀AEVM–NC或AEVM–NO类型，当线圈得电时，使调节导阀处于工作或不工作状态。此类压力调节阀也可以提供变型RSABSEU–K和RSABSEU–KH，其可选压力可在工厂设定。

2．一个外置接口由电磁导阀AEVM–NC控制，提供外置的热气

1. RSABSEU is made up of one main valve AM3 and two pilot valves. Different pilot valves can make different regulators: AM3+ ACVP-L (0 to 10 bars) can make RSABSEU, AM3+ two ACVP-H (4 to 25 bars) can make RSABSEU –H. Both of above two regulators combined with the solenoid valve AEVM-NC or AEVM-NO, when coil is energized, regulators will work or stop. Regulators can also have other options by order. The pressure of RSABSEU series can be set based on orders in the factory before delivery.
2. An external joint is controlled by the AEVM-NC to provide external hot gas.

运行原理 Operation



■ 压力调节阀RSABSEU阀控制主阀的进口压力。当进口压力超过控制导阀的设定压力时，该阀打开。如果电磁导阀（C）是NO类型，只可能给调节导阀一种信号，打开电磁阀（B）使得热气允许进入活塞顶部，不依赖于进口压力，主阀打开

The pressure regulators RSABSEU control the inlet pressure of main valve. Regulators open when the pressure exceeds the set pressure on the control pilot. If the solenoid pilot(C)is NO type, only one choice that to open the solenoid (B) to allow the hot gas flow to the top of piston, main valve open with independence of the inlet pressure.

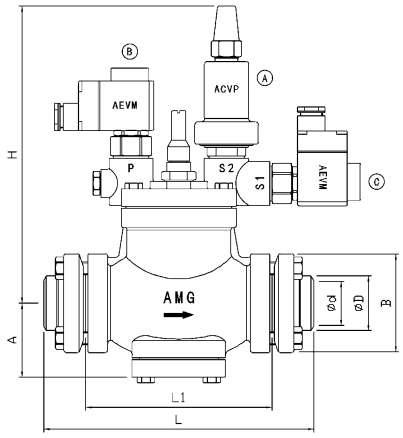
■ 当进口压力低于导阀的压力设定值，或电磁导阀线圈得电或失电时，压力调节主阀再次关闭。

The main vales close again when the inlet pressure decreases below the set pressure of the pilot, or the coil of solenoid pilot have been energized/ de-energlized.

应用 Applications

■ 压力调节阀RSABSEU的设计适合于氨和其它的氟利昂制冷剂，用于化霜和温度控制，主阀可以全开以取得最大制冷效果。

The regulators RSABSEU are designed to work with ammonia and other fluorinated refrigerants, to defrost and temperature control, with wide open possibility for maximum cooling.



名称 Name	型号 Type	尺寸(mm) Size(mm)					
		ϕD	ϕd	A	H	L	L1
RSABSEU 压力调节& 气动调节阀 Pressure regulator & gas powered regulators	RSABSEU 20	27	20	65	250	190	125
	RSABSEU 25	34	25	65	250	190	125
	RSABSEU 32	42	32	70	275	245	170
	RSABSEU 40	48	40	70	275	245	170
	RSABSEU 50	60	50	70	280	255	180
	RSABSEU 65	76	65	85	305	295	220
	RSABSEU 80	89	80	95	325	330	250
	RSABSEU 100	108	100	125	360	415	330

气动截止阀常闭型RACK系列
Normally Closed Gas Powered Stop Valves RACK Series

技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.

特点 Characteristics

- RACK是一个常闭但气动打开的先导阀。来自经过外置接口组件和AEVM–NC或NO电磁导阀的外置高压管的制冷气体，作用于活塞，从而控制气动调节阀。该电磁导阀安装在气动阀阀帽上

  RACK are servo-operated valves normally closed and pneumaic open by means of refrigerant gas of high pressure acting upon power piston，taken from external high pressure line through the external joint，AEVM-NC or NO fitted both on the valve bonnet.

- 气动阀RACK的设计适合于氨和其它的氟利昂制冷剂，用于液泵循环和直接蒸发系统的低温回汽管，热气融霜和常闭阀需要短时期自动打开的应用场合

  RACK valves are designed to work with ammonia and other common fluorinated refrigerants，for use in suction lines of low temperature in direct expansion or pump recirculation，defrost systems with hot gas and any application that need a valve normally closed with automatic opening for short time.

- 气动阀RACK可以在压差△P=0时正常运行，气动阀必须水平安装，气动阀的活塞和导阀必须垂直方向工作

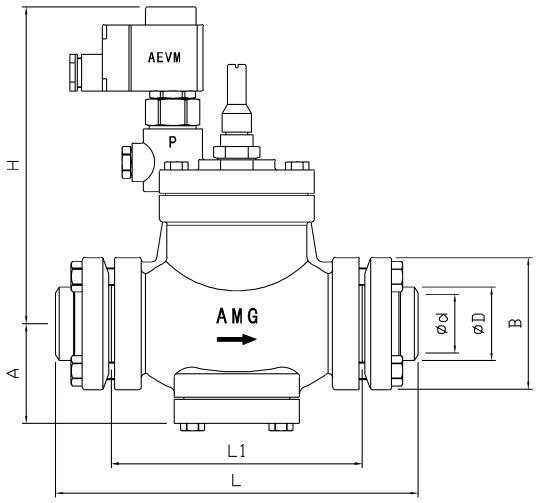
  RACK valves can operate with △p=0 and they must be installed in horizontal position，with the piston and pilot working in vertical direction.

- 在阀关闭时，在活塞的周围有从一个小孔泄露的气体，但这只是使得在高压气体流关闭时此气动阀还可以关闭

  When the valve are closed.there is a bleed of gas through a small bore，but only to close the valve when the hot gas stream is finished.

- 高压气体的外置连接，必须是1/4″ 或者3/8″管在外置连接口进行焊接

  The external joint of high pressure inlet, must be welded with the external joint in size of 1/4" or 3/8"



名称 Name	型号 Type	尺寸(mm) Size(mm)								kv	Cv
		DN		ϕD	ϕd	A	H	L	L1		
RACK 常闭型气动截止阀 Normally closed gas powered stop valve	RACK 25	1″	25	34	25	65	190	190	125	9	10.5
	RACK 32	1¼″	32	42	32	70	215	245	170	16	19
	RACK 40	1½″	40	48	40	70	215	245	170	30	35
	RACK 50	2″	50	60	50	70	220	255	180	40	47
	RACK 65	2½″	65	76	65	85	245	295	220	75	88
	RACK 80	3″	80	89	80	95	265	330	250	140	164
	RACK 100	4″	100	108	100	125	300	415	330	200	234

气动截止阀RALK系列
Gas Powered Stop Valves Type RALK Series

技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

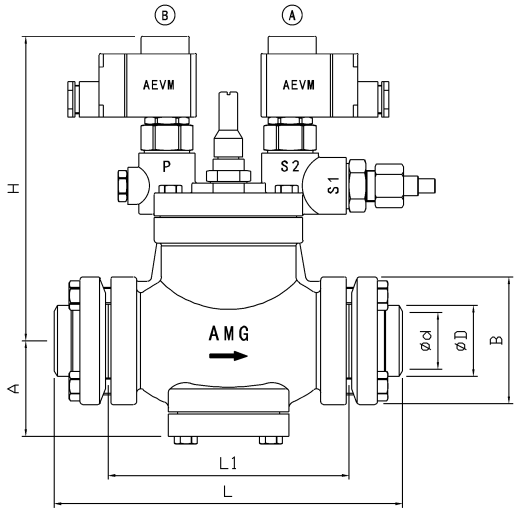
试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.

特点 Characteristics

- RALK是一个常闭但气动打开的先导阀。来自于外置高压管的制冷气体，作用于活塞，从而打开气动调节阀
  RALK are servo-operated valves normally closed and pneumatic opening by means of refrigerant gas from external high pressure line，acting upon power piston.

- 在阀帽上，安装有一个外置接口，与高压气体连接的螺母 和接口，和根据以下可选要求的二个AEVM导阀
  a–RALK–NC/NO型，带一个在A位置的AEVM–NC（常闭导阀）和在B位置的AEVM–NO（常开导阀）
  b–RALK–NC/NC型，带一个在A位置的AEVM–NC（常闭导阀）和在B位置的AEVM–NC（常闭导阀）
  On the bonnet are fitted one external joint，nut & nipple connection to gas inlet，and two solenoid pilots AEVM type:
  a-RALK-NC/NO，with one AEVM-NC，(normally closed pilot) on A，and one AEVM-NO，(normally open pilot) on B
  b-RALK-NC/NC，with one AEVM-NC，(normally closed pilot) on A，and one AEVM-NC on B.



- 电磁阀A关闭和打开进入活塞顶部腔室的气体，从而关闭或打开主阀。但是电磁阀B必须打开，在电磁阀A关闭的情况下，使得该腔室的气体泄漏，从而允许主阀可以再一次关闭
  The solenoid valve A shut-off or opening the flow of gas to the top piston chamber，to close or open the main valve. But the solenoid valve B has to be opened to relieve this gas of the chamber to allow closed again the main valve when the solenoid valve A is closed

- 气动阀RALK的设计适用于氨和其它常用的氟利昂制冷剂，用于回汽管以及常闭阀需要短时期自动打开的，以及有很小的进出口压差或者甚至于△P=0的使用场合
  RALK valves are designed to use with ammonia and other common fluorinated refrigerants，for use in suction lines or any application that need a valve normally closed with automatic opening for short periods,and with a minimum differential pressure between inlet-outlet or even with △p=0.

- 在气动阀打开时，在活塞周围没有气体。只是在电磁阀A关闭作用于活塞的气体，而且电磁阀B打开允许主阀再一次关闭时，此腔内的气体泄流进上游。
  While the valves are opened，there is not a bleed of gas around the piston，and only when the solenoid A shut off the flow of gas upon power piston，and the solenoid B is open to allow close again the main valve，the gas of this chamber is relieved upstream

名称 Name	型号 Type	尺寸(mm) Size(mm)								kv	Cv
		DN		ϕD	ϕd	A	H	L	L1		
RALK 气动截止阀 Gas powered stop valve	RALK 25	1″	25	34	25	65	190	190	125	9	10.5
	RALK 32	1¼″	32	42	32	70	215	245	170	16	19
	RALK 40	1½″	40	48	40	70	215	245	170	30	35
	RALK 50	2″	50	60	50	70	220	255	180	40	47
	RALK 65	2½″	65	76	65	85	245	295	220	75	88
	RALK 80	3″	80	89	80	95	265	330	250	140	164
	RALK 100	4″	100	108	100	125	300	415	330	200	234

二步式气动截止阀RAXK系列
Two Steps Gas Powered Stop Valves RAXK Series

技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.

特点 Characteristics

- RALK是一个二步式常闭但气动打开的先导阀。来自于外置高压管的制冷气体，作用于活塞，从而控制气动调节阀。二步气动阀开启原理如下
  1．第一步：当导阀线圈得电时，该阀只开启全部的10%
  2．第二步：当该阀的进出口压差达到 1 ～1.5bar时，该阀自动100%全开

  RAXK are two steps servo-operated valves normally closed and pneumatic opening by means of refrigerant gas from external high pressure acting upon power piston, The working principle is:
  1-Step one the valve opens 10% of the total when the coils of the pilots are powered
  2-Step two the valve opens automatically 100% when the differential pressure across the valve reaches 1-1.5 bar

- 像RALK阀一样，在RAXK的阀盖上安装有一个外置接口，与高压气体连接的螺母和接口，和二个AEVM电磁导阀，一个是A位置的AEVM–NC（常闭导阀），另一个是在 B 位置的AEVM–NO

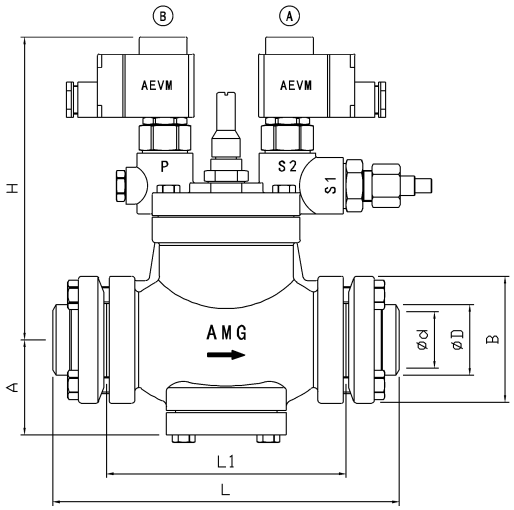
  As the RALK valves On the bonnet of the RAXK are fitted one external joint, nut & nipple connection to gas inlet, and two solenoid pilot AEVM type, one AEVM-NC, (nomally closed pilot) on A, and one AEVM-NO, (normally open pilot)on B

- 电磁阀A关闭和打开进入活塞顶部腔室的气体，从而关闭或打开主阀。但是电磁阀B必须打开，在电磁阀A关闭的情况下，使得该腔室的气体泄漏，从而允许主阀可以再一次关闭

  The solenoid valve A shut-off and open the flow of gas to the top piston chamber, to close or open the main valve. But the solenoid valve B has to be opened to relieve this gas of the chamber to allow closed again the main valve when the pilot A is closed

- 气动阀RAXK的设计适用于氨和其它常用的氟利昂制冷剂，用于有很大压差的回汽管中的阀的开启，以及外置管压力等于或小于进口压力时仍需要该阀自动关闭的场合。

  RAXK valves are designed to use with ammonia and other common fluorinated refrigerants, for use in suction lines opening against very high differential pressure and for any application that need automatical shut-off valve to working with an external line pressure equal or less than inlet pressure of the valve



名称 Name	型号 Type	尺寸(mm) Size(mm)								kv	Cv
		DN		ϕD	ϕd	A	H	L	L1		
RAXK 二步式气动截止阀 Two-step gas powered stop valve	RAXK 25	1″	25	34	25	65	190	190	125	9	10.5
	RAXK 32	1¼″	32	42	32	70	215	245	170	16	19
	RAXK 40	1½″	40	48	40	70	215	245	170	30	35
	RAXK 50	2″	50	60	50	70	220	255	180	40	47
	RAXK 65	2½″	65	76	65	85	245	295	220	75	88
	RAXK 80	3″	80	89	80	95	265	330	250	140	164
	RAXK 100	4″	100	108	100	125	300	415	330	200	234

气动截止阀RAK系列
Gas Powered Stop Valves RAK Series

技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine,propane, etc.

特点 Characteristics

- RAK是一个常开但气动关闭的先导阀。来自经过另外可订购的VMP10系列电磁阀的外置高压管的制冷气体，作用于活塞，从而控制气动调节阀

  RAK are servo-operated valves normally open and pneumatic closed, by means of refrigerant gas acting upon power piston, taken from external high pressure line through a solenoid valve VMP10 type, available by order.

- 气动阀RAK设计适合于氨和其它常用的氟利昂制冷剂，用于回汽管以及常开阀需要短时期自动关闭的应用场合

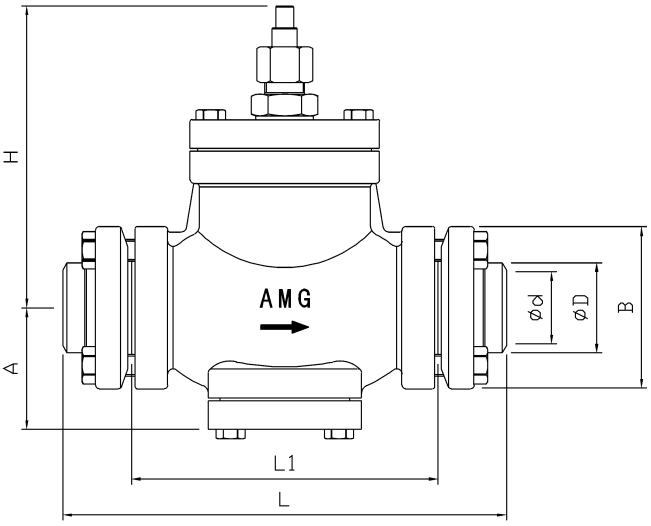
  RAK valves are designed to use with ammonia and other common fluorinated refrigerants, for use in suction lines or any application that need a valve normally open with automatic closing for short period.

- 气动阀RAK可以在△p=0以及任何位置上正常运行。但在阀关闭或打开时，在活塞的周围有少量的泄漏气体，使得高压气体流关闭时此气动阀还可以开启。

  RAK valves can operate with △p=0 and in any position. But when the valves are closed or open, there is a bleed of gas around the piston to allow open the valve when the high pressure gas stream is closed.

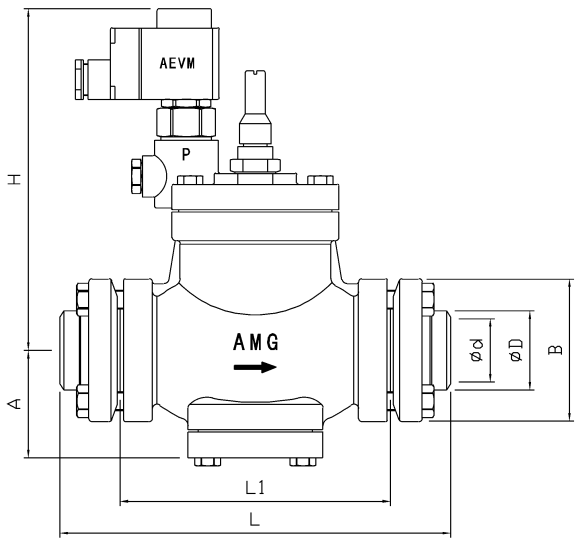
- RAK与电磁阀的连接是通过阀帽上的螺母和接口相连，可以是DN1/4″或3/8″的铜管/钢管通过钎焊或焊接与阀接口连接

  The connection between solenoid valve and RAK valve is through nut & nipple union on the bonnet, and cooper or steel pipe DN 1/4" or 3/8" brazed or welded to nipple.



名称 Name	型号 Type	尺寸(mm) Size(mm)								kv	Cv
		DN		ϕD	ϕd	A	H	L	L1		
RAK 气动截止阀 Gas powered stop valve	RAK 25	1″	25	34	25	65	145	190	125	9	10.5
	RAK 32	1¼″	32	42	32	70	170	245	170	16	19
	RAK 40	1½″	40	48	40	70	170	245	170	30	35
	RAK 50	2″	50	60	50	70	175	255	180	40	47
	RAK 65	2½″	65	76	65	85	200	295	220	75	88
	RAK 80	3″	80	89	80	95	220	330	250	140	164
	RAK 100	4″	100	108	100	125	255	415	330	200	234

气动截止阀RAK-W系列
Gas Powered Stop Valves RAK-W Series



技术参数 Technical parameters

公称压力：2.8MPa
Nominal pressure: 2.8MPa

适用温度：−50℃~ +120℃
Applicable temperature: −50℃ ~ +120℃

试验压力：4.2MPa
Test pressure: 4.2MPa

适用介质：氨、氟、丙烷等。
Applicable medium: ammonia, fluorine, propane, etc.

特点 Characteristics

- RAK−W是一个常开但气动关闭的先导阀。来自经过AEVM电磁导阀的外置高压管的制冷气体，作用于活塞，从而控制气动调节阀。该电磁导阀安装在气动阀阀盖接口上

  RAK-W are servo-operated valves normally open and pneumatic closed by means of refrigerant gas acting upon power piston, taken from external high pressure line through a solenoid pilot AEVM type, mounted on the bonnet

- 气动阀RAK−W设计适合于氨和其它常用的氟利昂制冷剂，用于回汽管以及常开阀需要短时期自动关闭的应用场合

  RAK-W valves are designed to use with ammonia and other common fluorinated refrigerants, for use in suction lines or any application that need a valve normally open with automatic closing for short period.

- 气动阀RAK可以在△p=0以及任何位置上正常运行。但在阀关闭或打开时，在活塞的周围有少量的泄漏气体，此小孔使得高压气体流关闭时此气动阀还可以开启。然而如果在活塞周围此泄漏气体不能出现，或者你需要一个没有泄漏孔的阀，你必须选用我们提供的RACK系列常闭阀或者是另外一种可选RAK−2WS系列。但对于后者，你需要另外订购二个电磁导阀，一个导阀用以关闭热气流入进口，另一个导阀用于去除活塞周围的气体，避免气动阀的再一次打开

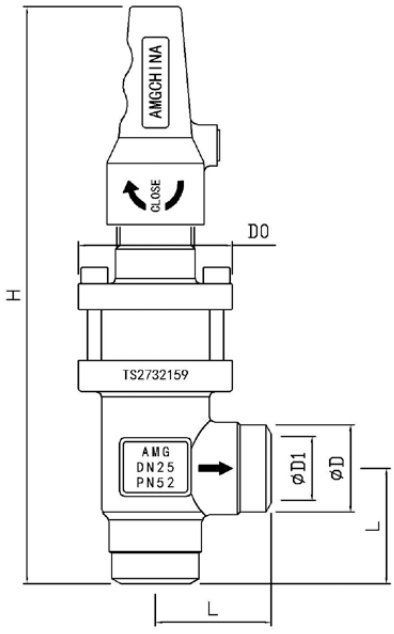
  RAK-W valves can operate with △p=0 and in any position. But when the valves are closed or open, there is a bleed of gas around the piston and a small bore to allow open the valve when the high pressure gas stream is closed. Nevertheless, if this small bleed cannot occur or you need a valve without bleed around the piston, you must use our RACK normally closed valve, or the option RAK-2WS type, but with this last type you need to include two solenoid pilots, one to shut off the hot gas inlet flow, and the second one to empty the chamber over the piston, and to avoid open the valve again.

- 电磁导阀的热气进口，通过钎焊或焊接与气动阀上的螺母和接口(1/4″ or 3/8″)组件连接

  The inlet of hot gas to solenoid pilot is through a nut & nipple connection of 1/4" or 3/8" brazed or welded to nipple.

名称 Name	型号 Type	尺寸(mm) Size(mm)								kv	Cv
		DN		ϕD	ϕd	A	H	L	L1		
RAK−W 气动截止阀 Gas powered stop valve	RAK−W 25	1″	25	34	25	65	190	190	125	9	10.5
	RAK−W 32	1¼″	32	42	32	70	215	245	170	16	19
	RAK−W 40	1½″	40	48	40	70	215	245	170	30	35
	RAK−W 50	2″	50	60	50	70	220	255	180	40	47
	RAK−W 65	2½″	65	76	65	85	245	295	220	75	88
	RAK−W 80	3″	80	89	80	95	265	330	250	140	164
	RAK−W 100	4″	100	108	100	125	300	415	330	200	234

溢流阀FOV系列
Overflow Valve FOV Series



技术参数 Technical parameters

52
52

适用介质：适用于所有通用型制冷剂及非腐蚀性气体和液体包括氨(R717)、氟、二氧化碳及丙烷、丙烯等，但需考虑密封材料的兼容性。
适用温度：−50℃～+150℃
最大工作压力：52bar(754 psig)

Medium:
Most kinds of refrigeration oil and universal refrigerants such as CO2, ammonia, flurine, propane, propylene, etc.
Working temperature: -50℃ to +150℃
Maximum working pressure: 52bar (754 psig)

特点 Characteristics

FOV溢流阀是一种专为防止因低流速或低密度引起的系统震荡而设计的一种阀。这样可应用于制冷量变化很大的场合，在化霜时能控制压力，在达到设定值时开启阀门，顺时针调节阀杆可以手动调节弹簧的压力，可以调节阀杆使阀关闭直至弹簧被挡住。

FOV为一种开启压力可以调节的直角形溢流阀,具有三种使用功能:溢流阀，单向阀，截止阀。
阀门能够手动关闭。具有倒密封功能，可以在带压情况下更换阀杆密封部件。高精度的O型圈确保了完美的密封性能。

设定压力是阀开始打开时的压力,可以在2～8bar压差范围内调整。

FOV valve is a specail designed valve. It is desiged for preventing the system vibration which is caused by the low flow velocity or low density. In this way, the valve can be used where the refrigerating capacity varies greately. It can control the pressure during defrosting. Valve will open when the pressure reach the set piont. The stem can be turned clockwise manually to regulate the pressures till closed.

FOV valves is an angle regulating valve, it has three valve functions: overflow valve, check valve, and stop valve. It can close manually. It has back sealing so that can replace some accessories during working situation. O rings ensure the good sealing performance

Setting pressure is the pressure when the valve opens. It can adjust in a rage of 2 to 8 bars.

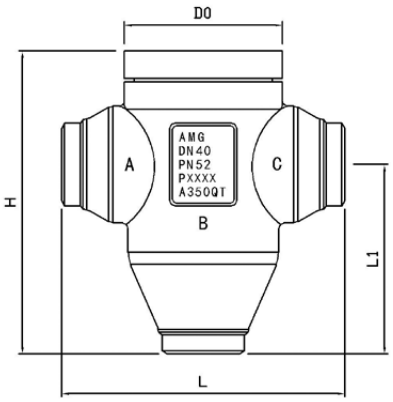
名称 Name	型号 Type	尺寸(mm) Size(mm)				
		ϕ D	ϕ D1	L	D0	H
FOV 溢流阀 Ovreflow valve	FOV 20-D	27	20	45	□ 60	225
	FOV 25-D	32	25	45	□ 60	225

油温调节阀ROV系列
Oil Temperature regulating valve ROV series

技术参数 Technical parameters

最小操作温度：≥−10℃
持续工作温度：≤+85℃
短时间操作温度：≤+120℃
最高工作压力：52 bar
油：适用于各种通用型冷冻油。
制冷剂：适用于所有的通用型制冷剂及非腐蚀性气体和液体包括氨(R717)、氟、二氧化碳及丙烷、丙烯等，但需考虑密封材料的兼容性。
如需更多信息请和AMG公司联系。

Minimum working pressure: ≥-10℃
Long term working temperature: ≤+85℃
Transitory working temperature: ≤+120℃
Maximum working pressure: 52 bar
Medium:All kinds of refrigeration oil and all universal refrigerants such as CO2, ammonia, flurine, propane, propylene, etc.



特点 Characteristics

- 最优化的流体设计。
- 精锻外壳结构牢固。
- 抗震动和冲击能力强。
- 不锈钢恒温控制元件。
- 无需手动调节装置。
- 容易维护，拆装方便。
- 可提供对接焊和插入焊两种焊接接口。

Good fliud design
Forged valve bodies are more reliable
Strong vibration and impact resistance
Stainless steel thermostatic control elementsAutomatic control
Easy for maintanence
Two welding choice: butt weld and socket weld

ROV油温调节阀是一个恒定温度的三通阀，通过对螺杆机组或离心机组润滑油系统中热油和冷油进行混合达到维持压缩机的油温处于稳定的温度。该阀还可以用于其他的油和水介质的冷却系统。ROV油温调节阀具有较少的组成部件及延长的圆柱型接口，确保安装和维护工作很容易。

阀体有三个接口，呈“T”字形，分别有三个字母表明了每一接口的介质流动情况：

B—高油温进口　　C－低油温进口　　A－朝向压缩机的出口

内置标准的恒温控制元件用于名义温度49℃，但我们也可以根据订单要求，提供其它二种名义温度：温度54℃和60℃

ROV oil temprature control valve: can keep the oil of compressor in constant temperature by mixing of cold and hot oil in screw unit or centrifugal unit's lubricating system. This valve is also suitable for other oil and water cooling system. ROV valve is easy for assembling and maintanence.
There are three joints: A, B and C, means
B—High temperature oil inlet
C—Low temperature oil inlet
A—Outlet
Normal standard thermostatic control elements can be used up to 49℃. Other standard 54℃ and 60℃ are also avaliable by order.

名称 Name	型号 Type	尺寸(mm) Size(mm)					
		ϕ D	ϕ D1	L	D0	L1	H
ROV 油温调节阀 Oil temperature control valve	ROV 25-D	32	25	165	□ 95	110	181
	ROV 32-D	38	32	165	□ 95	110	181
	ROV 40-D	45	39	165	□ 95	110	181
	ROV 50-D	57	50	165	□ 95	110	181
	ROV 65-D	76	65	266	□ 140	157	255
	ROV 80-D	89	80	266	□ 140	157	255

RVY15-80-D锻钢直通截止阀
RVY15-80-D Forged steel straight-through stop valve

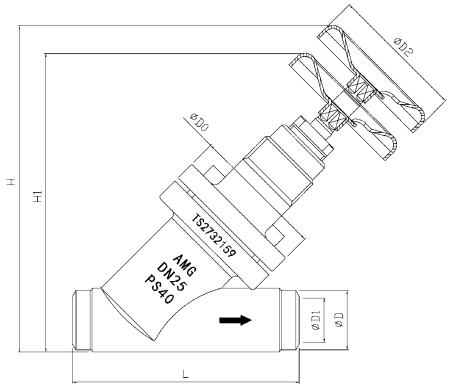
技术参数 Technical parameters

公称压力：4.0MPa
Nominal pressure: 4.0MPa

试验压力：6.0MPa
Test pressure: 6.0MPa

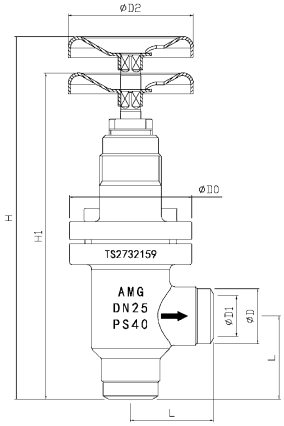
适用温度：−50℃~ +150℃
Applicable temperature: −50℃ ~ +150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		ϕ D	ϕ D1	L	ϕ D0	H1	H	
直通截止阀 Straight−through stop valve	RVY15−D	21	15	106	65	137	147	1.3
	RVY20−D	25	20	106	65	140	150	1.4
	RVY25−D	32	25	128	75	170	186	2.4
	RVY32−D	38	32	128	75	174	190	2.5
	RVY40−D	45	40	165	95	218	250	4.3
	RVY50−D	57	50	165	95	225	258	4.6
	RVY65−D	76	65	195	105	270	305	8.8
	RVY80−D	89	80	212	115	305	350	10.3

RVT15-80-D锻钢直角截止阀
RVT15-80-D Forged steel right-angle stop valve



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		ϕ D	ϕ D1	L	ϕ D0	H1	H	
直角截止阀 Right−angle stop valve	RVT15−D	21	15	40	65	168	183	1.2
	RVT20−D	25	20	40	65	168	183	1.3
	RVT25−D	32	25	51	75	200	223	2.1
	RVT32−D	38	32	51	75	200	223	2.2
	RVT40−D	45	40	60	95	246	290	3.8
	RVT50−D	57	50	64	95	246	290	4.0
	RVT65−D	76	65	75	105	265	300	7.2
	RVT80−D	89	80	80	115	305	345	8.3

RRY15-80-D锻钢直通调节阀

RRY15-80-D Forged steel straight-through regulating valve

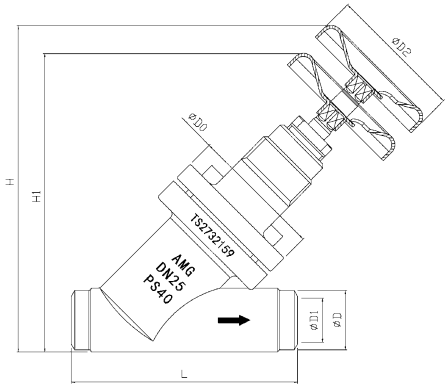
技术参数 Technical parameters

公称压力：4.0MPa
Nominal pressure: 4.0MPa

试验压力：6.0MPa
Test pressure: 6.0MPa

适用温度：−50℃~ +150℃
Applicable temperature: −50℃ ~ +150℃

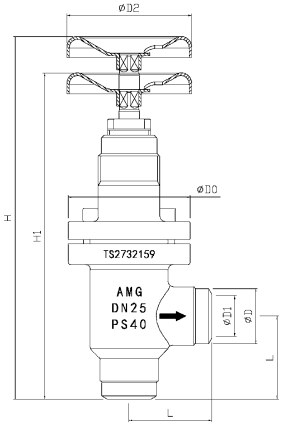
适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		ϕ D	ϕ D1	L	ϕ D0	H1	H	
直通调节阀 Straight-through regulating valve	RRY15-D	21	15	106	65	137	147	1.4
	RRY20-D	25	20	106	65	140	150	1.5
	RRY25-D	32	25	128	75	170	186	2.5
	RRY32-D	38	32	128	75	174	190	2.5
	RRY40-D	45	40	165	95	218	250	4.4
	RRY50-D	57	50	165	95	225	258	4.8
	RRY65-D	76	65	195	105	270	305	9.3
	RRY80-D	89	80	212	115	305	350	11.1

RRT15-80-D锻钢直角调节阀

RRT15-80-D Forged steel right-angle regulating valve



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		ϕ D	ϕ D1	L	ϕ D0	H1	H	
直角调节阀 Right-angle regulating valve	RRT15-D	21	15	40	65	168	183	1.2
	RRT20-D	25	20	40	65	168	183	1.3
	RRT25-D	32	25	51	75	200	223	2.2
	RRT32-D	38	32	51	75	200	223	2.3
	RRT40-D	45	40	60	95	246	290	4.1
	RRT50-D	57	50	64	95	246	290	4.2
	RRT65-D	76	65	75	105	265	300	7.7
	RRT80-D	89	80	80	115	305	345	9.1

锻钢RCY/RCT止回阀
Forged steel RCY/RCT check valve

RCY15-80-D锻钢直通止回阀
RCY15-80-D Forged steel straight-through check valve

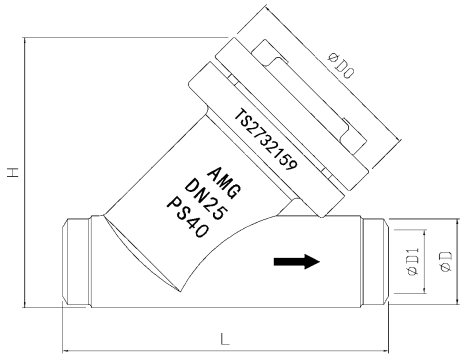
技术参数 Technical parameters

公称压力：4.0MPa
Nominal pressure: 4.0MPa

试验压力：6.0MPa
Test pressure: 6.0MPa

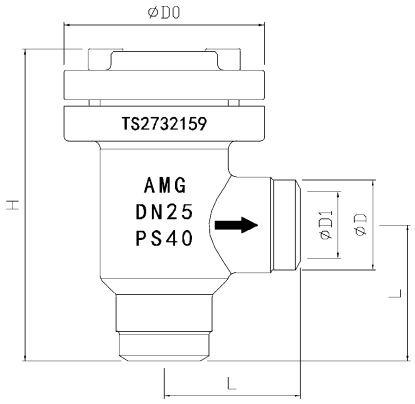
适用温度：−50℃~ +150℃
Applicable temperature: −50℃ ~ +150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	ϕD0	H	
直通 止回阀 Straight−through check valve	RCY15−D	21	15	106	65	87	1.1
	RCY20−D	25	20	106	65	89	1.2
	RCY25−D	32	25	128	75	106	1.9
	RCY32−D	38	32	128	75	110	2.0
	RCY40−D	45	40	165	95	140	3.8
	RCY50−D	57	50	165	95	146	4.2
	RCY65−D	76	65	195	105	175	7.1
	RCY80−D	89	80	212	115	193	8.4

RCT15-80-D锻钢直角止回阀
RCT15-80-D Forged steel right-angle check valve



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	ϕD0	H	
直角 止回阀 Right−angle check valve	RCT15−D	21	15	40	65	100	1.0
	RCT20−D	25	20	40	65	100	1.1
	RCT25−D	32	25	51	75	116	1.6
	RCT32−D	38	32	51	75	116	1.7
	RCT40−D	45	40	60	95	150	3.2
	RCT50−D	57	50	60	95	150	3.6
	RCT65−D	76	65	75	105	160	5.6
	RCT80−D	89	80	80	115	173	6.3

锻钢VCY/VCT截止止回阀
Forged steel VCY/VCT stop check valve

VCY15-80-D锻钢直通截止止回阀
VCY15-80-D Forged steel straight-through stop check valve

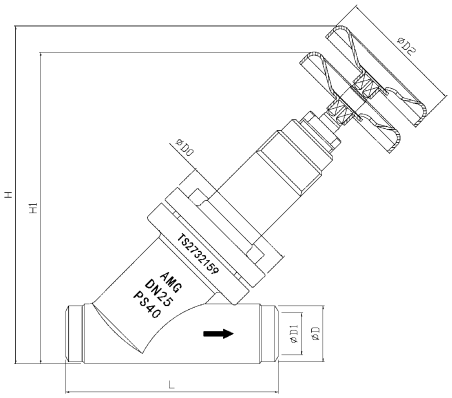
技术参数 Technical parameters

公称压力：4.0MPa
Nominal pressure: 4.0MPa

试验压力：6.0MPa
Test pressure: 6.0MPa

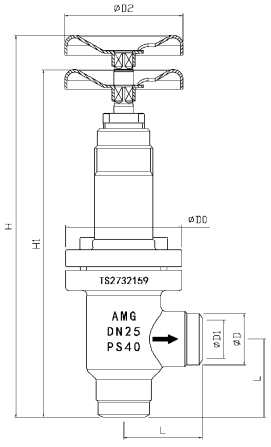
适用温度：−50℃~ +150℃
Applicable temperature: −50℃ ~ +150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		ϕ D	ϕ D1	L	ϕ D0	H1	H	
直通 截止止回阀 Straight—through stop check valve	VCY15—D	21	15	106	65	150	165	1.5
	VCY20—D	25	20	106	65	155	170	1.6
	VCY25—D	32	25	128	75	190	207	2.4
	VCY32—D	38	32	128	75	193	210	2.8
	VCY40—D	45	40	165	95	237	264	4.8
	VCY50—D	57	50	165	95	243	270	5.0
	VCY65—D	76	65	195	105	307	340	8.7
	VCY80—D	89	80	212	115	326	365	10.0

VCT15-80-D锻钢直角截止止回阀
VCT15-80-D Forged steel right-angle stop check valve



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		ϕ D	ϕ D1	L	ϕ D0	H1	H	
直角 截止止回阀 Right—angle stop check valve	VCT15—D	21	15	40	65	190	210	1.3
	VCT20—D	25	20	40	65	190	210	1.4
	VCT25—D	32	25	51	75	227	253	2.4
	VCT32—D	38	32	51	75	227	253	2.5
	VCT40—D	45	40	60	95	276	313	4.2
	VCT50—D	57	50	64	95	276	313	4.3
	VCT65—D	76	65	75	105	316	362	7.4
	VCT80—D	89	80	80	115	335	386	8.2

锻钢FIAY/FIAT 过滤器
Forged steel FIAY/FIAT Filter

FIAY15-150-D锻钢直通过滤器
FIAY15-150-D forged steel straight-through Filter

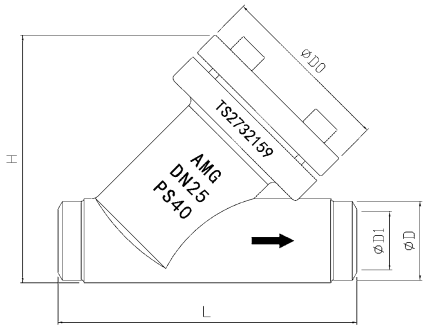
技术参数 Technical parameters

公称压力：4.0MPa
Nominal pressure: 4.0MPa

试验压力：6.0MPa
Test pressure: 6.0MPa

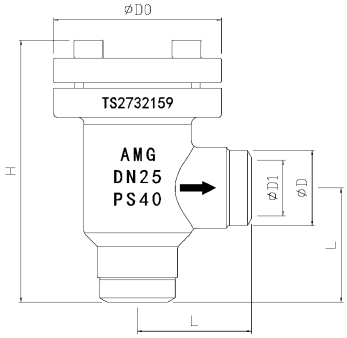
适用温度：−50℃~ +150℃
Applicable temperature: −50℃ ~ +150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	ϕD0	H	
直通 过滤器 Straight−through filter	FIAY15−D	21	15	106	65	87	1.0
	FIAY20−D	25	20	106	65	89	1.1
	FIAY25−D	32	25	128	75	106	1.5
	FIAY32−D	38	32	128	75	110	1.7
	FIAY40−D	45	40	165	95	140	3.0
	FIAY50−D	57	50	165	95	146	3.3
	FIAY65−D	76	65	195	105	175	5.8
	FIAY80−D	89	80	212	115	193	7.1
	FIAY100−D	108	99	264	156	250	
	FIAY125−D	133	123	322	193	310	
	FIAY150−D	159	149	370	219	355	

FIAT15-150-D锻钢直角过滤器
FIAT15-150-D forged steel right-angle Filter



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	ϕD0	H	
直角 过滤器 Right−angle filter	FIAT15−D	21	15	40	65	92	0.9
	FIAT20−D	25	20	40	65	92	0.9
	FIAT25−D	32	25	51	75	110	1.2
	FIAT32−D	38	32	51	75	110	1.4
	FIAT40−D	45	40	60	95	138	2.4
	FIAT50−D	57	50	64	95	138	2.7
	FIAT65−D	76	65	75	105	150	4.4
	FIAT80−D	89	80	80	115	162	5.1
	FIAT100−D	108	99	106	156	220	
	FIAT125−D	133	123	128	193	270	
	FIAT150−D	159	149	145	219	300	

RVY100-250-D铸钢直通截止阀
RVY100-250-D cast steel straight-through stop valve

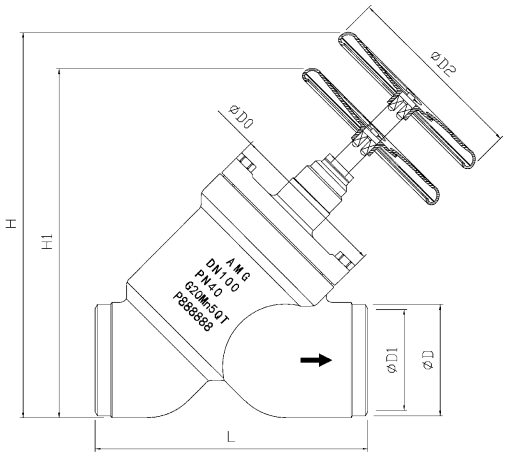
技术参数 Technical parameters

公称压力：4.0MPa
Nominal pressure: 4.0MPa

试验压力：6.0MPa
Test pressure: 6.0MPa

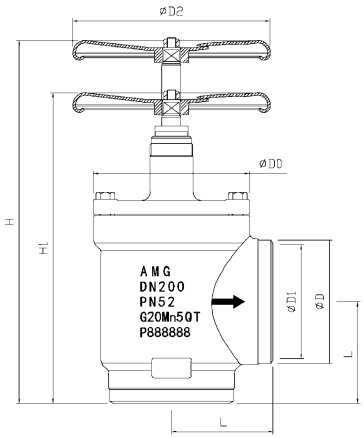
适用温度：−50℃~ +150℃
Applicable temperature: −50℃ ~ +150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	L	H1	H	ϕD0	
直通截止阀 Straight-through stop valve	RVY100-D	108	264	340	375	156	
	RVY125-D	133	322	405	450	193	
	RVY150-D	159	370	480	540	219	
	RVY200-D	219	464	615	680	276	
	RVY250-D	273	550	715	790	334	

RVT100-300-D铸钢直角截止阀
RVT100-300-D cast steel right-angle stop valve



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	L	H1	H	ϕD0	
直角截止阀 Right-angle stop valve	RVT100-D	108	106	325	375	156	
	RVT125-D	133	128	395	460	193	
	RVT150-D	159	145	460	545	219	
	RVT200-D	219	180	550	645	276	
	RVT250-D	273	210	620	725	334	
	RVT300-D	325	240	655	760	384	

RVY100-450-D焊接式直通截止阀
RVY100-450-D Welded straight-through stop valve

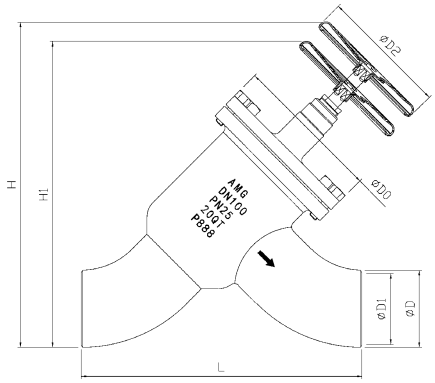
技术参数 Technical parameters

公称压力：2.5MPa
Nominal pressure: 2.5MPa

试验压力：3.75MPa
Test pressure: 3.75MPa

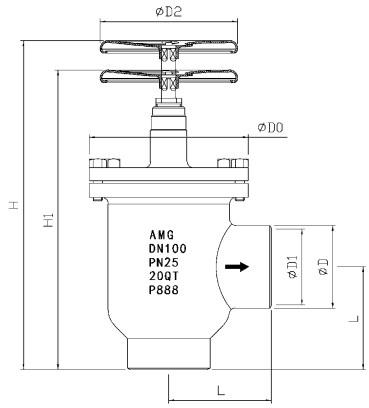
适用温度：−50℃~ +150℃
Applicable temperature:−50℃ ~ +150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		ϕ D	ϕ D1	L	ϕ D0	H1	H	
直通截止阀 Straight−through stop valve	RVY100−D	108	99	390	208	428	455	24
	RVY125−D	133	123	470	229	500	535	30
	RVY150−D	159	149	545	267	560	605	41
	RVY200−D	219	205	670	333	710	760	
	RVY250−D	273	255	910	410	870	935	145
	RVY300−D	325	305	1065	450	1070	1155	288
	RVY350−D	377	355	1225	505	1185	1260	390
	RVY400−D	426	402	1380	565	1300	1420	
	RVY450−D	480	456	1530	650	1380	1500	

RVT100-450-D焊接式直角截止阀
RVT100-450-D Welded right-angle stop valve



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		ϕ D	ϕD1	L	ϕD0	H1	H	
直角截止阀 Right−angle stop valve	RVT100−D	108	99	134	208	390	430	20.5
	RVT125−D	133	123	155	229	450	505	28.5
	RVT150−D	159	149	175	267	500	560	43.5
	RVT200−D	219	205	220	360	660	750	84
	RVT250−D	273	255	260	410	710	800	120
	RVT300−D	325	305	300	450	885	1000	225
	RVT350−D	377	355	355	505	970	1095	280
	RVT400−D	426	402	380	565	1065	1225	
	RVT450−D	480	456	390	650	1100	1265	

焊接式VCY/VCT截止止回阀
Welded VCY/VCT stop check valve

VCY100-450-D焊接式直通截止止回阀
VCY100-450-D Welded straight-through stop check valve

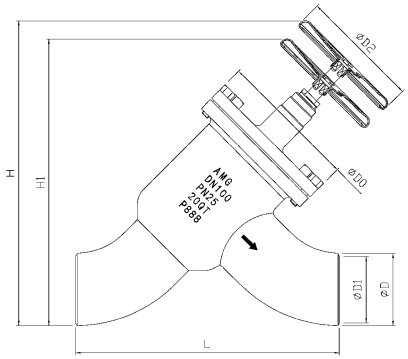
技术参数 Technical parameters

公称压力：2.5MPa
Nominal pressure: 2.5MPa

试验压力：3.75MPa
Test pressure: 3.75MPa

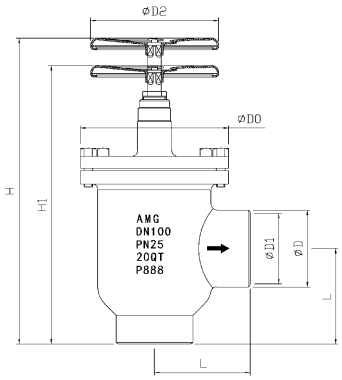
适用温度：−50℃~ +150℃
Applicable temperature: −50℃ ~ +150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		Φ D	Φ D1	L	Φ D0	H1	H	
直通 截止止回阀 Straight−through stop check valve	VCY100−D	108	99	390	208	435	465	24
	VCY125−D	133	123	470	229	520	560	32.8
	VCY150−D	159	149	545	267	570	605	48
	VCY200−D	219	205	670	333	770	835	100
	VCY250−D	273	255	910	410	900	965	145
	VCY300−D	325	305	1065	450	1070	1155	288
	VCY350−D	377	355	1225	505	1180	1255	390
	VCY400−D	426	402	1380	565	1300	1420	
	VCY450−D	480	456	1530	650	1380	1500	

VCT100-450-D焊接式直角截止止回阀
VCT100-450-D Welded right-angle stop check valve



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		Φ D	ΦD1	L	ΦD0	H1	H	
直角 截止止回阀 Right−angle stop check valve	VCT100−D	108	99	134	208	400	440	22
	VCT125−D	133	123	155	229	485	540	31
	VCT150−D	159	149	175	267	500	552	46
	VCT200−D	219	205	220	360	690	775	87
	VCT250−D	273	255	260	410	756	846	123
	VCT300−D	325	305	300	450	830	930	230
	VCT350−D	377	355	355	505	970	1080	285
	VCT400−D	426	402	380	565	1065	1225	
	VCT450−D	480	456	390	650	1100	1265	

TDZ15-125-T直角过滤器
TDZ15-125-T right-angle Filter

埃姆基两种形式的过滤器TDZ型和FIA型，是为工业制冷特别设计的，这些性能可靠的过滤器是现代制冷工业不可缺少的组成部分。它们适用于氨、氟等所有通用制冷剂的气体和液体。

TDZ型过滤器有角式和直通式二种连接结构。TDZ型过滤器体积大、过滤面积大、清洗间隔时间长，适用于泵前、泵后和压缩机等之前。

FIA型过滤器同样有角式和直通式二种连接结构。FIA型过滤器体积小，适用于电磁阀、压力调节阀等自控装置之前。防止了杂质对压缩机和阀门及其他部件的磨损，从而减少了系统的故障率。

- 过滤网及网板均由不锈钢制成，不生锈、寿命长、易清洗。
- 方孔过滤网板流通面积大，压降小。滤芯安装、维护保养方便。
- DN15-80 FIA型的过滤器壳体材料为特殊的耐低温钢，且整体锻钢制成，无泄漏。
- 不锈钢滤网有38、72、100、150目(500、 250、150、100μ)四种规格选择。
- 过滤网选择的一般原则：
- 液体管路：泵前38目(500μ),泵后100目(150μ),电子膨胀阀前150目(100μ),一般自控元件前38目(500μ),敏感自控元件前72目(250μ)。
- 吸气管路：螺杆压缩机前72目(250μ),活塞压缩机前100目(150μ)。
- 清洗或更换过滤网的参考原则液体管路△P＞0.5bar,吸气管路△P＞0.05bar,过滤器允许最大压差为1bar。

AMG has two series of filters, one is TDZ series, another is FIA series. Both of them has angle type and straight-through type.

TDZ filter has larger volume and filtering area, so the interval time for cleaning can be longer. TDZ filter is prefer to be installed before pumps and compressors. FIA filter has small volume, it is suitable for using before solenoid valves or regulators.

TDZ filter is made by stainless steel to against the rust. Service life is long and easy for cleaning.
There are different mesh can be choosed by order, such as 38, 72, 100, 150 mesh, choosing of mesh based on:

- Liquid line: Before pump: 38 mesh; after pump: 100 mesh; solenoid valve: 150 mesh, general auto-control unit: 38 mesh; sensitive auto-control unit: 72 mesh
- Suction line: Screw compressor: 72 mesh; piston compressor: 100 mesh

For cleaning or replacement of the filter screen please reference to: liquid line, △P>0.5bar; suction line, △P>0.05bar. Maximun allowable △P is 1 bar

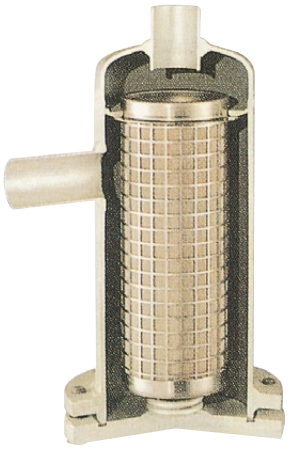
技术参数 Technical parameters

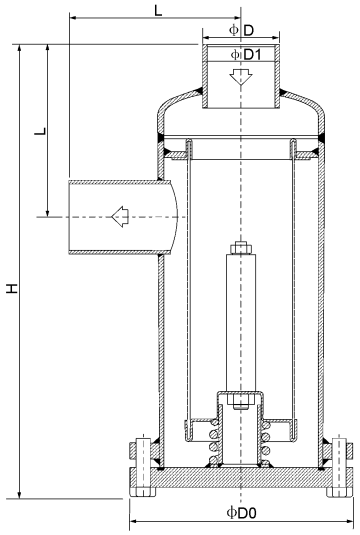
公称压力：2.5MPa
Nominal pressure: 2.5MPa

试验压力：3.75MPa
Test pressure: 3.75MPa

适用温度：−50℃~+150℃
Applicable temperature: −50℃ ~ +150℃

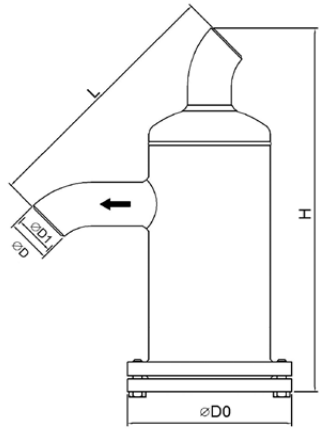
适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.





名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	ϕD0	H	
直角过滤器 Right−angle filter	TDZ15T−D	21	15	110	150	270	4.8
	TDZ20T−D	25	20	110	150	270	5.0
	TDZ25T−D	32	25	110	150	270	5.2
	TDZ32T−D	38	32	110	150	270	5.4
	TDZ40T−D	45	40	140	180	345	9.6
	TDZ50T−D	57	50	140	180	345	9.8
	TDZ65T−D	76	65	140	180	345	10.5
	TDZ80T−D	89	80	140	180	345	11
	TDZ100T−D	108	99	134	208	410	12
	TDZ125T−D	133	123	155	229	470	13

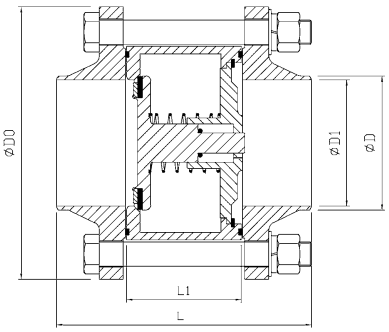
TDZ15-125-Y直通过滤器
TDZ15-125-Y straight-through Filter

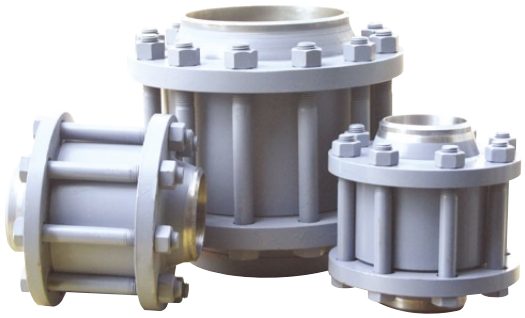


名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	ϕD0	H	
直通过滤器 Straight−through filter	TDZ15Y−D	21	15	200	150	295	5.0
	TDZ20Y−D	25	20	210	150	300	5.2
	TDZ25Y−D	32	25	220	150	305	5.4
	TDZ32Y−D	38	32	230	150	310	5.6
	TDZ40Y−D	45	40	300	180	400	10
	TDZ50Y−D	57	50	310	180	415	10.5
	TDZ65Y−D	76	65	320	180	420	11
	TDZ80Y−D	89	80	330	180	435	12
	TDZ100Y−D	108	99	395	208	455	13
	TDZ125Y−D	133	123	475	229	520	14

RCH15-350-F高径法兰直通止回阀

RCH15-350-F Welded neck flange check valve





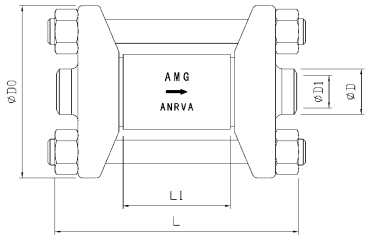
技术参数 Technical parameters

公称压力：2.5MPa
Nominal pressure: 2.5MPa

试验压力：3.75MPa
Test pressure: 3.75MPa

适用温度：−50℃~ +150℃
Applicable temperature: −50℃ ~ +150℃

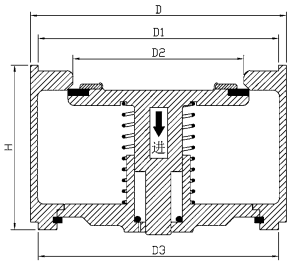
适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L1	L	ϕD0	
高径法兰直通止回阀 Check valve	RCH15—F	21	15	50	115	80	
	RCH20—F	27	20	50	115	80	
	RCH25—F	34	25	70	138	□90	
	RCH32—F	42	32	70	138	□90	
	RCH40—F	48	40	75	155	□100	
	RCH50—F	60	50	75	155	□100	
	RCH65—F	76	65	90	195	185	
	RCH80—F	89	80	100	220	200	
	RCH100—F	108	99	113	245	235	
	RCH125—F	133	124	123	265	270	
	RCH150—F	159	149	130	285	300	
	RCH200—F	219	205	160	325	360	
	RCH250—F	273	259	180	360	425	
	RCH300—F	325	305	190	380	485	
	RCH350—F	377	355	220	425	555	

RCH80-400螺杆机专用吸气止回阀

RCH80-400 Check valve for screw machine



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	ϕD2	ϕD3	H	
螺杆机专用吸气止回阀 Check Valve for Screw Machine	RCH32	73	65	66	32	75	
	RCH40	68	75	76	42	80	
	RCH50	93	87	88	52	85	
	RCH65	118	109	110	65	97	
	RCH80	138	120	121	80	108	3.5
	RCH100	144	129	129	96	123	5.4
	RCH125	165	154	155	105	123	7.0
	RCH150	200	190	190	135	130	10
	RCH200	270	259	260	190	160	29
	RCH250	348	330	331	240	180	33
	RCH300	400	363	364	290	190	76
	RCH350	453	421	422	338	220	
	RCH400	505	474	477	370	260	89

锻钢STY/STT截止阀
Forged steel STY/STT stop valve

STY15-150-D锻钢直通截止阀
RVY15-150-D Forged steel straight-through stop valve

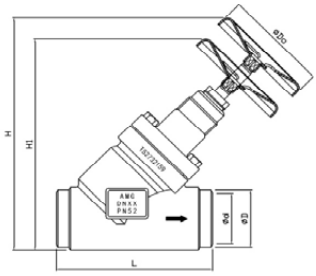
技术参数 Technical parameters

公称压力：2.5MPa
Nominal pressure: 2.5MPa

试验压力：3.75MPa
Test pressure: 3.75MPa

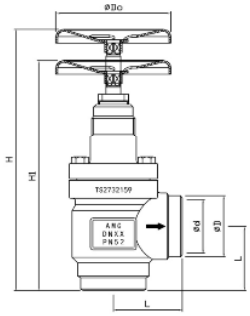
适用温度：−50℃~+150℃
Applicable temperature: −50℃~+150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	L	H1	H	ϕD0	
直通截止阀 Straight−through stop valve	STY15−D	21	90	110	120	60	0.6
	STY20−D	27	120	130	140	60	1.2
	STY25−D	34	120	130	140	60	1.3
	STY32−D	42	128	155	175	80	2
	STY40−D	48	145	175	195	80	2.5
	STY50−D	57	148	205	225	100	4
	STY65−D	76	176	240	265	120	6.5
	STY80−D	89	216	285	310	160	11
	STY100−D	108	264	340	375	180	17
	STY125−D	133	322	405	450	200	35
	STY150−D	159	370	480	540	250	50

STT15-150-D锻钢直角截止阀
STT15-150-D Forged steel right-angle stop valve



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	L	H1	H	ϕD0	
直角截止阀 Right−angle stop valve	STT15−D	21	35	135	150	60	0.55
	STT20−D	27	45	155	170	60	1
	STT25−D	34	45	155	170	60	1.1
	STT32−D	42	51	180	205	80	1.9
	STT40−D	48	55	195	225	80	2.3
	STT50−D	57	60	215	240	100	3.4
	STT65−D	76	70	240	275	120	5.3
	STT80−D	89	90	280	315	160	8.6
	STT100−D	108	106	325	375	180	13.5
	STT125−D	133	128	395	460	200	27
	STT150−D	159	145	460	545	250	37

SRY15-80-D锻钢直通调节阀
SRY15-80-D Forged steel straight-through control valve

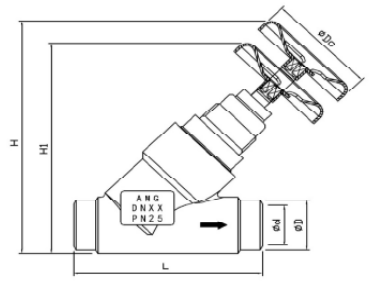
技术参数 Technical parameters

公称压力：2.5MPa
Nominal pressure: 2.5MPa

试验压力：3.75MPa
Test pressure: 3.75MPa

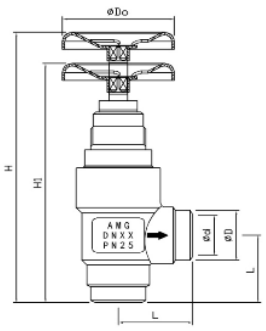
适用温度：−50℃~ +150℃
Applicable temperature: −50℃ ~ +150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	L	H1	H	ϕD0	
直通调节阀 Straight−through control valve	SRY15−D	21	90	110	120	60	0.65
	SRY20−D	27	120	130	140	60	1.2
	SRY25−D	34	120	130	140	60	1.4
	SRY32−D	42	128	155	175	80	2.1
	SRY40−D	48	145	170	195	80	2.7
	SRY50−D	57	148	205	225	100	4.3
	SRY65−D	76	176	240	265	120	6.8
	SRY80−D	89	216	265	310	160	11.5

SRT15-80-D锻钢直角调节阀
SRT15-80-D Forged steel right-angle control valve



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	L	H1	H	ϕD0	
直角调节阀 Right−angle control valve	SRT15−D	21	35	135	150	60	0.6
	SRT20−D	27	45	155	170	60	1.1
	SRT25−D	34	45	155	170	60	1.2
	SRT32−D	42	51	180	205	80	2
	SRT40−D	48	55	195	225	80	2.4
	SRT50−D	57	60	215	240	100	3.6
	SRT65−D	76	70	240	275	120	5.6
	SRT80−D	89	90	280	315	160	9

精锻CO_2用SVY/SVT截止阀
Precision forging SVY/SVT stop valve for CO_2

SVY15-150-D精锻直通截止阀
SVY15-150-D Precision forging straight-through stop valve

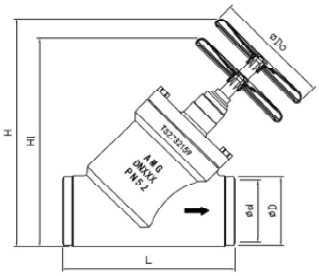
技术参数 Technical parameters

公称压力：5.2MPa
Nominal pressure: 5.2MPa

试验压力：7.8MPa
Test pressure: 7.8MPa

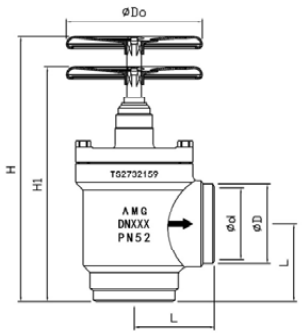
适用温度：−60℃~+150℃
Applicable temperature: −60℃~+150℃

适用介质：氨、氟、CO_2、丙烷等。
Applicable medium: ammonia, fluorine, CO_2, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	L	H1	H	ϕD0	
直通截止阀 Straight−through stop valve	SVY15−D	21	120	140	155	60	1.6
	SVY20−D	27	120	140	155	60	1.6
	SVY25−D	32	155	185	205	80	3
	SVY32−D	38	155	185	205	80	3.6
	SVY40−D	45	155	188	208	80	3.6
	SVY50−D	57	148	205	225	100	4.1
	SVY65−D	76	176	240	265	120	6.5
	SVY80−D	89	216	290	310	160	11
	SVY100−D	108	264	340	375	180	17
	SVY125−D	133	322	405	450	200	35
	SVY150−D	159	370	480	540	250	50

SVT15-150-D精锻直角截止阀
SVT15-150-D Precision forging right-angle stop valve



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	L	H1	H	ϕD0	
直角截止阀 Right−angle stop valve	SVT15−D	21	45	175	195	60	1.3
	SVT20−D	27	45	175	195	60	1.4
	SVT25−D	32	55	220	250	80	
	SVT32−D	38	55	220	250	80	
	SVT40−D	45	55	220	250	80	
	SVT50−D	57	60	215	240	100	3.4
	SVT65−D	76	70	240	275	120	5.3
	SVT80−D	89	90	280	315	160	8.6
	SVT100−D	108	106	325	375	180	13.5
	SVT125−D	133	128	395	460	200	27
	SVT150−D	159	145	460	545	250	37

精锻CO_2用REY/RET调节阀
Precision forging REY/RET control valve for CO_2

REY15-80-D精锻直通调节阀
REY15-80-D Precision forging straight-through control valve

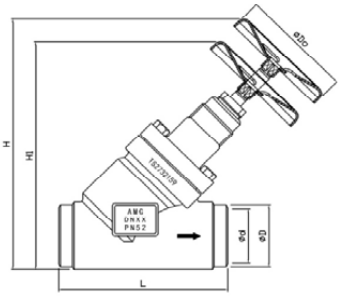
技术参数 Technical parameters

公称压力：5.2MPa
Nominal pressure: 5.2MPa

试验压力：7.8MPa
Test pressure: 7.8MPa

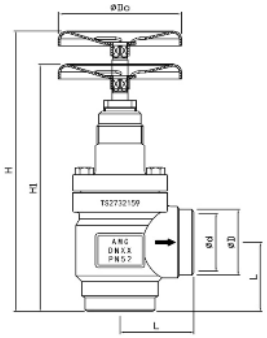
适用温度：−60℃~+150℃
Applicable temperature: −60℃~+150℃

适用介质：氨、氟、CO_2、丙烷等。
Applicable medium: ammonia, CO_2, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	L	H	H1	ϕD0	
直通调节阀 Straight-through control valve	REY15-D	21	120	155	140	60	
	REY20-D	27	120	155	140	60	
	REY25-D	32	155	205	185	80	
	REY32-D	38	155	205	185	80	
	REY40-D	45	155	208	188	80	
	REY50-D	57	148	225	205	100	
	REY65-D	76	176	265	240	120	
	REY80-D	89	216	310	290	160	

RET15-80-D精锻直角调节阀
RET15-80-D Precision forging right-angle control valve



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	L	H	H1	ϕD0	
直角调节阀 Right-angle control valve	RET15-D	21	45	195	175	60	
	RET20-D	27	45	195	175	60	
	RET25-D	32	55	250	220	80	
	RET32-D	38	55	250	220	80	
	RET40-D	45	55	250	220	80	
	RET50-D	57	60	240	215	100	
	RET65-D	76	70	275	240	120	
	RET80-D	89	90	315	280	160	

精锻CO2用CHY/CHT止回阀
Precision forging CHY/CHT check valve for CO_2

CHY15-150-D精锻直通止回阀
CHY15-150-D Precision forging straight-through check valve

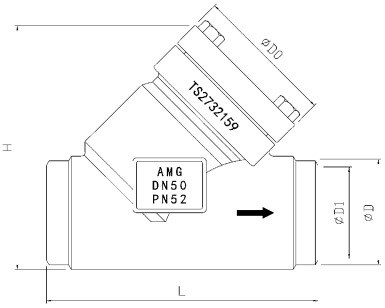
技术参数 Technical parameters

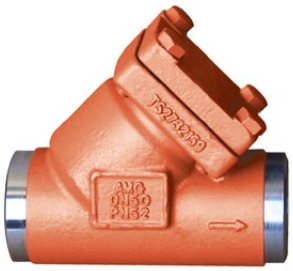
公称压力：5.2MPa
Nominal pressure: 5.2MPa

适用温度：−60℃~+150℃
Applicable temperature: −60℃~+150℃

试验压力：7.8MPa
Test pressure: 7.8MPa

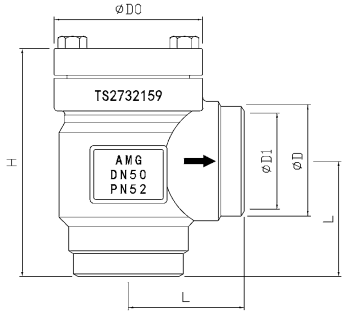
适用介质：氨、氟、CO_2、丙烷等。
Applicable medium: ammonia, fluorine, CO_2, propane, propylene, etc.





名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	H	ϕD0	
直通止回阀 Straight−through check valve	CHY15−D	21	15	120	90	□60	
	CHY20−D	27	20	120	90	□60	
	CHY25−D	32	25	155	125	□70	
	CHY32−D	38	32	155	125	□70	
	CHY40−D	45	40	155	125	□70	
	CHY50−D	57	50	148	135	□77	
	CHY65−D	76	65	176	160	□90	
	CHY80−D	89	80	216	205	128	
	CHY100−D	108	99	264	250	156	
	CHY125−D	133	123	322	310	193	
	CHY150−D	159	149	370	355	219	

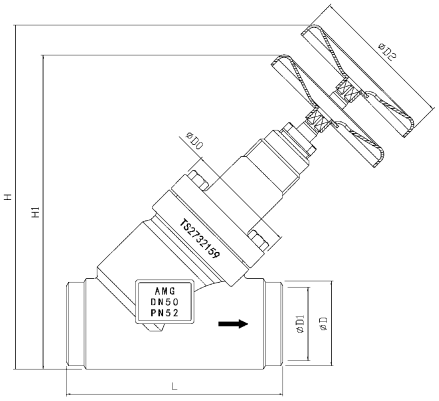
CHT15-150-D精锻直角止回阀
CHT15-150-D Precision forging right-angle check valve

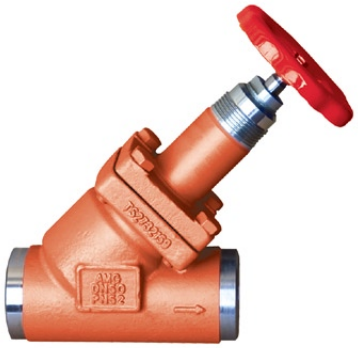


名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	H	ϕD0	
直角止回阀 Right−angle check valve	CHT15−D	21	15	45	105	□60	
	CHT20−D	27	20	45	105	□60	
	CHT25−D	32	25	55	145	□70	
	CHT32−D	38	32	55	145	□70	
	CHT40−D	45	40	55	145	□70	
	CHT50−D	57	50	60	120	□77	
	CHT65−D	76	65	70	140	□90	
	CHT80−D	89	80	90	180	128	
	CHT100−D	108	99	106	210	156	
	CHT125−D	133	123	128	260	193	
	CHT150−D	159	149	145	295	219	

精锻CO_2用SCY/SCT截止止回阀
Precision forging SCY/SCT stop check valve for CO_2

SCY15-150-D精锻直通截止止回阀
SCY15-150-D Precision forging straight-through stop check valve





技术参数 Technical parameters

公称压力：5.2MPa
Nominal pressure: 5.2MPa

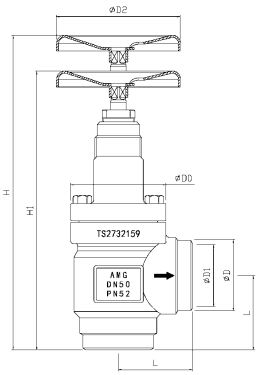
试验压力：7.8MPa
Test pressure: 7.8MPa

适用温度：−60℃~+150℃
Applicable temperature: −60℃~+150℃

适用介质：氨、氟、CO_2、丙烷等。
Applicable medium: ammonia, fluorine, CO_2, propane, propylene, etc.

名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	L	H1	H	ϕD0	
直通截止止回阀 Straight-through stop check valve	SCY15-D	21	120	155	170	□60	
	SCY20-D	27	120	155	170	□60	
	SCY25-D	32	155	205	225	□70	
	SCY32-D	38	155	205	225	□70	
	SCY40-D	45	155	205	225	□70	
	SCY50-D	57	148	205	225	□77	
	SCY65-D	76	176	240	265	□90	
	SCY80-D	89	216	310	335	128	
	SCY100-D	108	264	365	405	156	
	SCY125-D	133	322	405	450	193	
	SCY150-D	159	370	480	540	219	

SCT15-150-D精锻直角截止止回阀
SCT15-150-D Precision forging right-angle stop check valve



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	L	H1	H	ϕD0	
直角截止止回阀 Right-angle stop check valve	SCT15-D	21	45	195	215	□60	
	SCT20-D	27	45	195	215	□60	
	SCT25-D	32	55	245	280	□70	
	SCT32-D	38	55	245	280	□70	
	SCT40-D	45	55	245	280	□70	
	SCT50-D	57	60	215	240	□77	
	SCT65-D	76	70	240	275	□90	
	SCT80-D	89	90	320	355	128	
	SCT100-D	108	106	365	425	156	
	SCT125-D	133	128	395	460	193	
	SCT150-D	159	145	460	545	219	

精锻CO_2用FIAY/FIAT过滤器
Precision forging FIAY/FIAT filter for CO_2

FIAY15-150-D精锻直通过滤器
FIAY 15-150-D Precision forging straight-through filter

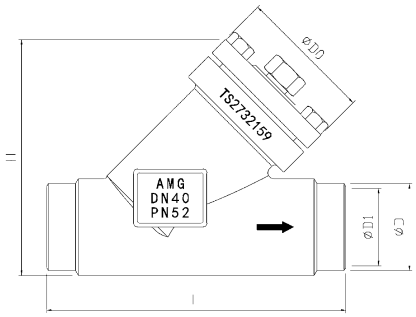
技术参数 Technical parameters

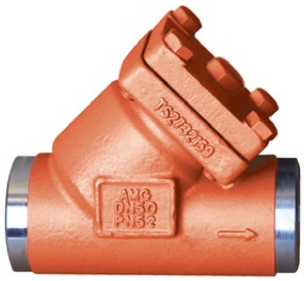
公称压力：5.2MPa
Nominal pressure: 5.2MPa

试验压力：7.8MPa
Test pressure: 7.8MPa

适用温度：−60℃~+150℃
Applicable temperature: −60℃~+150℃

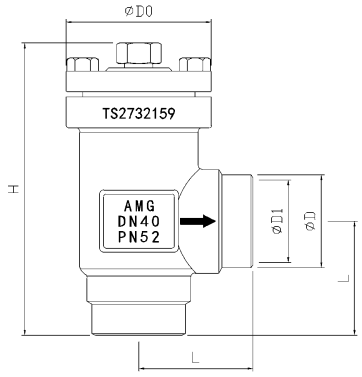
适用介质：氨、氟、CO_2、丙烷．丙烯等。
Applicable medium: ammonia, fluorine, CO_2, propane, propylene, etc.





名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	H	ϕD0	
直通过滤器 Straight-through filter	FIY15-D	21	15	120	90	□60	
	FIY20-D	27	20	120	90	□60	
	FIY25-D	32	25	155	125	□70	
	FIY32-D	38	32	155	125	□70	
	FIY40-D	45	40	155	125	□70	
	FIY50-D	57	50	148	135	□77	
	FIY65-D	76	65	176	160	□90	
	FIY80-D	89	80	216	205	128	
	FIY100-D	108	99	264	250	156	
	FIY125-D	133	123	322	310	193	
	FIY150-D	159	149	370	355	219	

FIAT15-150-D精锻直角过滤器
FIAT 15-150-D Precision forging right-angle filter



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	H	ϕD0	
直角过滤器 Right-angle filter	FIT15-D	21	15	45	110	□60	
	FIT20-D	27	20	45	110	□60	
	FIT25-D	32	25	55	140	□70	
	FIT32-D	38	32	55	140	□70	
	FIT40-D	45	40	55	140	□70	
	FIT50-D	57	50	60	130	□77	
	FIT65-D	76	65	70	150	□90	
	FIT80-D	89	80	90	190	128	
	FIT100-D	108	99	106	220	156	
	FIT125-D	133	123	128	270	193	
	FIT150-D	159	149	145	300	219	

不锈钢FIAY/FIAT-SS过滤器
Stainless steel FIAY/FIAT-SS filter

FIAY15-80SS-D不锈钢直通过滤器
FIAY15-80SS-D Stainless steel straight-through Filter

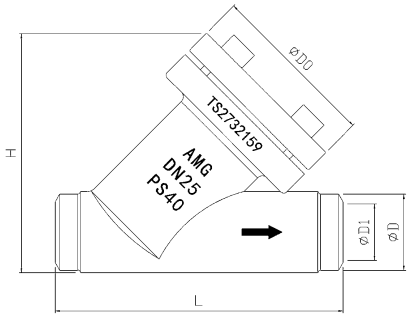
技术参数 Technical parameters

公称压力：4.0MPa
Nominal pressure: 4.0MPa

试验压力：6.0MPa
Test pressure: 6.0MPa

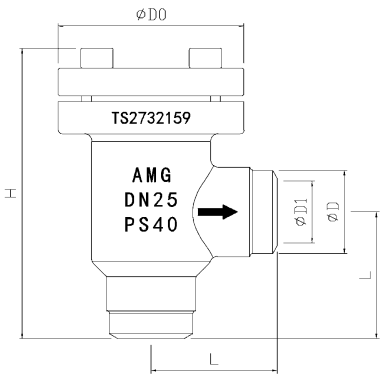
适用温度：−72℃~+150℃
Applicable temperature: −72℃~+150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	ϕD0	H	
直通过滤器 Straight−through filter	FIY15SS−D	21	15	106	65	87	1.0
	FIY20SS−D	25	20	106	65	89	1.1
	FIY25SS−D	32	25	128	75	106	1.5
	FIY32SS−D	38	32	128	75	110	1.7
	FIY40SS−D	45	40	165	95	140	3.0
	FIY50SS−D	57	50	165	95	146	3.3
	FIY65SS−D	76	65	195	105	175	5.8
	FIY80SS−D	89	80	212	115	193	7.1

FIAT15-80SS-D不锈钢直角过滤器
FIAT15-80SS-D Stainless steel right-angle Filter



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	ϕD0	H	
直角过滤器 Right−angle filter	FIT15SS−D	21	15	40	65	92	0.9
	FIT20SS−D	25	20	40	65	92	0.9
	FIT25SS−D	32	25	51	75	110	1.2
	FIT32SS−D	38	32	51	75	110	1.4
	FIT40SS−D	45	40	60	95	138	2.4
	FIT50SS−D	57	50	64	95	138	2.7
	FIT65SS−D	76	65	75	105	150	4.4
	FIT80SS−D	89	80	80	115	162	5.1

不锈钢RVY/RVT-SS截止阀
Stainless steel RVY/RVT-SS stop valve

RVY15-80SS-D 不锈钢直通截止阀
RVY 15-80SS-D Stainless steel straight-through stop valve

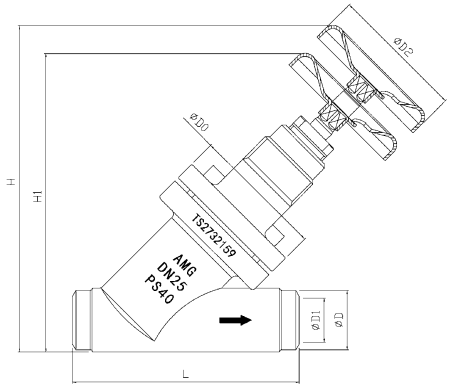
技术参数 Technical parameters

公称压力：4.0MPa
Nominal pressure: 4.0MPa

试验压力：6.0MPa
Test pressure: 6.0MPa

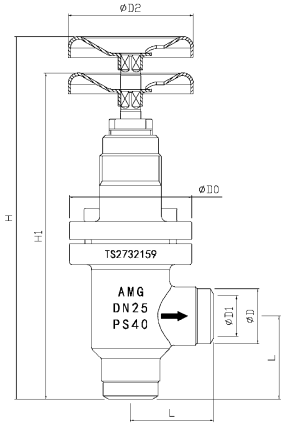
适用温度：−72℃~+150℃
Applicable temperature: −72℃~+150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		ϕ D	ϕ D1	L	ϕ D0	H1	H	
直通截止阀 Straight-through stop valve	RVY15SS-D	21	15	106	65	137	147	1.3
	RVY20SS-D	25	20	106	65	140	150	1.4
	RVY25SS-D	32	25	128	75	170	186	2.4
	RVY32SS-D	38	32	128	75	174	190	2.5
	RVY40SS-D	45	40	165	95	218	250	4.3
	RVY50SS-D	57	50	165	95	225	258	4.6
	RVY65SS-D	76	65	195	105	270	305	8.8
	RVY80SS-D	89	80	212	115	305	350	10.3

RVT15-80SS-D 不锈钢直角截止阀
RVT 15-80SS-D Stainless steel right-angle stop valve



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		ϕ D	ϕ D1	L	ϕ D0	H1	H	
直角截止阀 Right-angle stop valve	RVT15SS-D	21	15	40	65	168	183	1.2
	RVT20SS-D	25	20	40	65	168	183	1.3
	RVT25SS-D	32	25	51	75	200	223	2.1
	RVT32SS-D	38	32	51	75	200	223	2.2
	RVT40SS-D	45	40	60	95	246	290	3.8
	RVT50SS-D	57	50	64	95	246	290	4.0
	RVT65SS-D	76	65	75	105	265	300	7.2
	RVT80SS-D	89	80	80	115	305	345	8.3

不锈钢RRY/RRT-SS调节阀
Stainless steel RRY/RRT-SS control valve

RRY15-80SS-D 不锈钢直通调节阀
RRY 15-80SS-D Stainless steel straight-through control valve

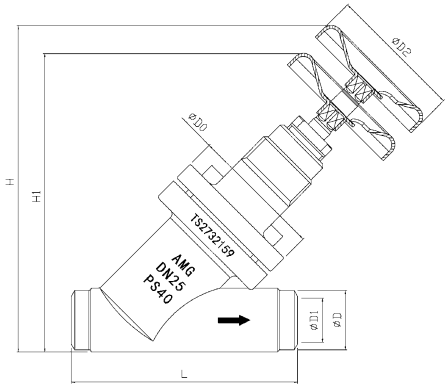
技术参数 Technical parameters

公称压力：4.0MPa
Nominal pressure: 4.0MPa

试验压力：6.0MPa
Test pressure: 6.0MPa

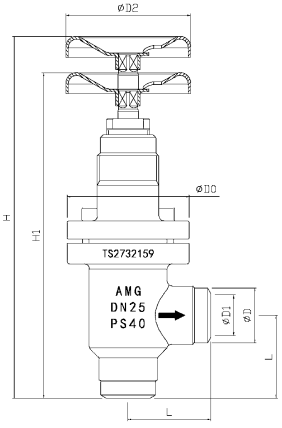
适用温度：−72℃~+150℃
Applicable temperature: −72℃~+150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		ϕ D	ϕ D1	L	ϕ D0	H1	H	
直通调节阀 Straight—through regulatingvalve	RRY15SS—D	21	15	106	65	137	147	1.4
	RRY20SS—D	25	20	106	65	140	150	1.5
	RRY25SS—D	32	25	128	75	170	186	2.5
	RRY32SS—D	38	32	128	75	174	190	2.5
	RRY40SS—D	45	40	165	95	218	250	4.4
	RRY50SS—D	57	50	165	95	225	258	4.8
	RRY65SS—D	76	65	195	105	270	305	9.3
	RRY80SS—D	89	80	212	115	305	350	11.1

RRT15-80SS-D 不锈钢直角调节阀
RRT 15-80SS-D Stainless steel right-angle control valve



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		ϕ D	ϕ D1	L	ϕ D0	H1	H	
直角调节阀 Right—angle regulating valve	RRT15SS—D	21	15	40	65	168	183	1.2
	RRT20SS—D	25	20	40	65	168	183	1.3
	RRT25SS—D	32	25	51	75	200	223	2.2
	RRT32SS—D	38	32	51	75	200	223	2.3
	RRT40SS—D	45	40	60	95	246	290	4.1
	RRT50SS—D	57	50	64	95	246	290	4.2
	RRT65SS—D	76	65	75	105	265	300	7.7
	RRT80SS—D	89	80	80	115	305	345	9.1

不锈钢RCY/RCT-SS止回阀
Stainless steel RCY/RCT-SS check valve

RCY15-80SS-D不锈钢直通止回阀
RCY15-80SS-D Stainless steel straight-through check valve

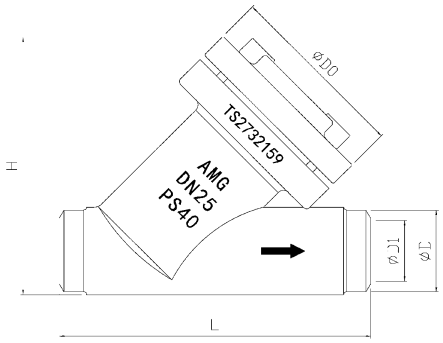
技术参数 Technical parameters

公称压力：4.0MPa
Nominal pressure: 4.0MPa

试验压力：6.0MPa
Test pressure: 6.0MPa

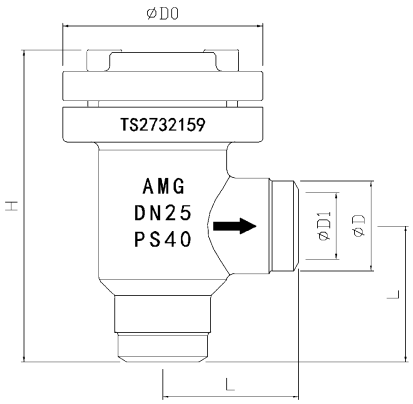
适用温度：−72℃~+150℃
Applicable temperature: −72℃~+150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	ϕD0	H	
直通止回阀 Straight−through check valve	RCY15SS−D	21	15	106	65	87	1.1
	RCY20SS−D	25	20	106	65	89	1.2
	RCY25SS−D	32	25	128	75	106	1.9
	RCY32SS−D	38	32	128	75	110	2.0
	RCY40SS−D	45	40	165	95	140	3.8
	RCY50SS−D	57	50	165	95	146	4.2
	RCY65SS−D	76	65	195	105	175	7.1
	RCY80SS−D	89	80	212	115	193	8.4

RCT15-80SS-D不锈钢直角止回阀
RCT 15-80SS-D Stainless steel right-angle check valve



名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	ϕD0	H	
直角止回阀 Right−angle check valve	RCT15SS−D	21	15	40	65	100	1.0
	RCT20SS−D	25	20	40	65	100	1.1
	RCT25SS−D	32	25	51	75	116	1.6
	RCT32SS−D	38	32	51	75	116	1.7
	RCT40SS−D	45	40	60	95	150	3.2
	RCT50SS−D	57	50	60	95	150	3.6
	RCT65SS−D	76	65	75	105	160	5.6
	RCT80SS−D	89	80	80	115	173	6.3

VCY15-80SS-D不锈钢直通截止止回阀
VCY15-80-D Stainless steel straight-through stop check valve

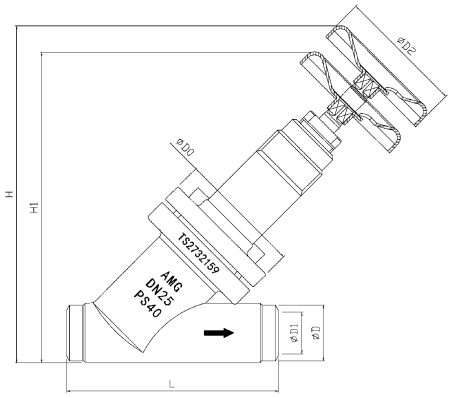
技术参数 Technical parameters

公称压力：4.0MPa
Nominal pressure: 4.0MPa

试验压力：6.0MPa
Test pressure: 6.0MPa

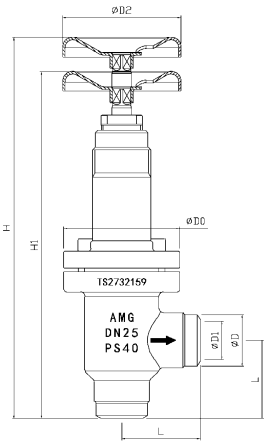
适用温度：−72℃~+150℃
Applicable temperature: −72℃~+150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		ϕ D	ϕ D1	L	ϕ D0	H1	H	
直通截止止回阀 Straight−through stop check valve	VCY15SS−D	21	15	106	65	150	165	1.5
	VCY20SS−D	25	20	106	65	155	170	1.6
	VCY25SS−D	32	25	128	75	190	207	2.4
	VCY32SS−D	38	32	128	75	193	210	2.8
	VCY40SS−D	45	40	165	95	237	264	4.8
	VCY50SS−D	57	50	165	95	243	270	5.0
	VCY65SS−D	76	65	195	105	307	340	8.7
	VCY80SS−D	89	80	212	115	326	365	10.0

VCT15-80SS-D不锈钢直角截止止回阀
VCT15-80-D Stainless steel right-angle stop check valve



名称 Name	型号 Type	尺寸(mm) Size(mm)						重量(Kg) Weight
		ϕ D	ϕ D1	L	ϕ D0	H1	H	
直角截止止回阀 Right−angle stop check valve	VCT15SS−D	21	15	40	65	190	210	1.3
	VCT20SS−D	25	20	40	65	190	210	1.4
	VCT25SS−D	32	25	51	75	227	253	2.4
	VCT32SS−D	38	32	51	75	227	253	2.5
	VCT40SS−D	45	40	60	95	276	313	4.2
	VCT50SS−D	57	50	64	95	276	313	4.3
	VCT65SS−D	76	65	75	105	316	362	7.4
	VCT80SS−D	89	80	80	115	335	386	8.2

RVY4-10-D锻钢直通截止阀
RRY4-10-D锻钢直通调节截止阀

RVY4-10-D Forged steel straight-through stop valve
RRY4-10-D Forged steel straight-through stop and control valve

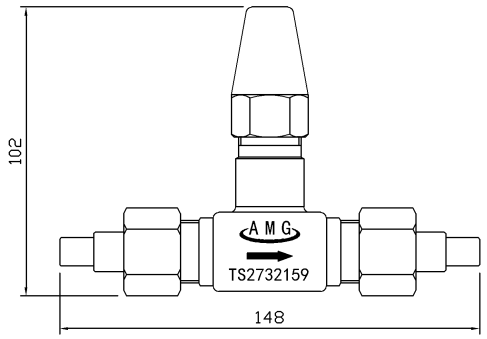
技术参数 Technical parameters

公称压力：4.0MPa
Nominal pressure: 4.0MPa

适用温度：−50℃~+150℃
Applicable temperature: −50℃ ~ +150℃

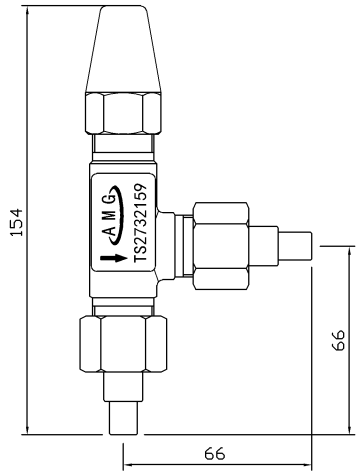
试验压力：6.0MPa
Test pressure: 6.0MPa

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



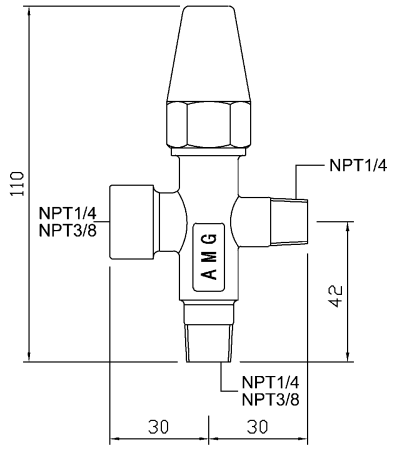
RVT4-10-D锻钢直角截止阀
RRT4-10-D锻钢直角调节截止阀

RVT4-10-D Forged steel right-angle stop valve
RRT4-10-D Forged steel right-angle stop and control valve



TH4-10三通截止阀

TH4-10 Three-way stop valve



RVY6-10直通压力表阀
RVY6-10 Straight-through pressure gauge valve

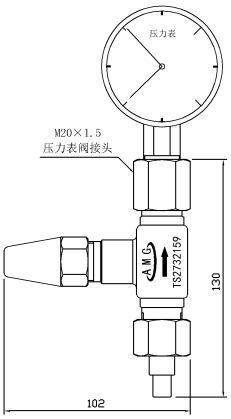
技术参数 Technical parameters

公称压力：4.0MPa
Nominal pressure: 4.0MPa

适用温度：−50℃~+150℃
Applicable temperature: −50℃ ~ +150℃

试验压力：6.0MPa
Test pressure: 6.0MPa

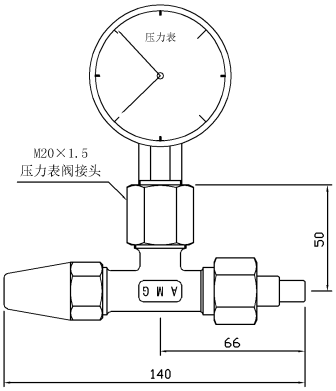
适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.

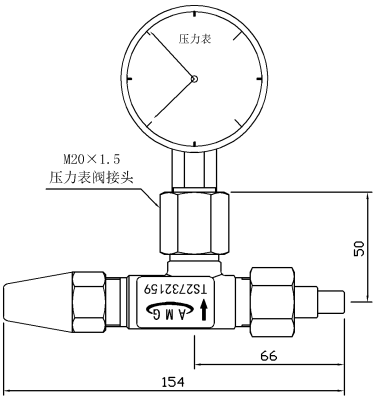


螺纹式表阀

焊接式表阀

RVT6-10直角压力表阀
RVT6-10 Angle pressure gauge valve





螺纹式表阀

焊接式表阀

RVT4-10多种接口小规格截止阀、调节截止阀
RVT4-10 Multiple thread connection stop/regulating valve

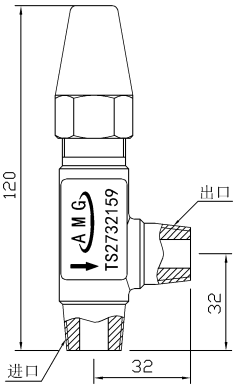
技术参数 Technical parameters

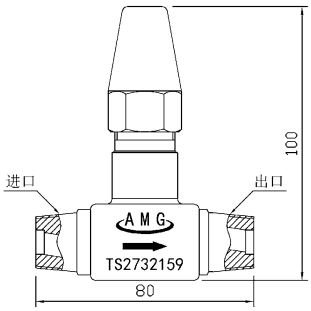
公称压力：4.0MPa
Nominal pressure: 4.0MPa

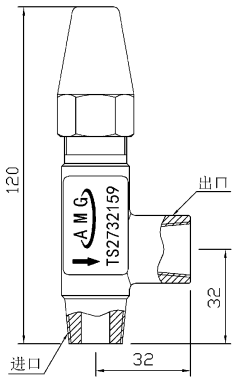
试验压力：6.0MPa
Test pressure: 6.0MPa

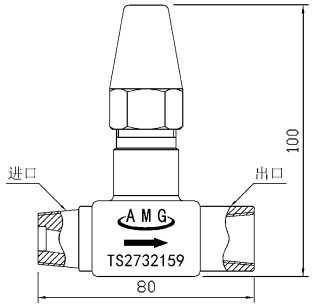
适用温度：−50℃~+150℃
Applicable temperature: −50℃ ~ +150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.









AMG编号 (NO.AMG)	进口(竖接口) inlet(Vertical interface)	出口(横接口) outlet(Horizontal interface)	备注:角阀 Remarks:Angle valves
AMG01	1/4 〞	1/4 〞	螺纹为外螺纹 R Threads are male threads R
AMG02	3/8 〞	3/8 〞	
AMG03	1/2 〞	1/2 〞	
AMG04	1/4 〞	1/4 〞	螺纹为外螺纹 MPT Threads are male threads MPT
AMG05	3/8 〞	3/8 〞	
AMG06	1/2 〞	1/2 〞	
AMG07	1/4 〞	1/4 〞	竖接口为外螺纹 R 横接口为内螺纹 Rc Inlet is male threaded R Outlet is female threaded RC
AMG08	3/8 〞	3/8 〞	
AMG09	1/2 〞	1/2 〞	
AMG10	1/4 〞	1/4 〞	竖接口为外螺纹 MPT 横接口为内螺纹 FPT Inlet is female threaded MPT Outlet is male threaded FPT
AMG11	3/8 〞	3/8 〞	
AMG12	1/2 〞	1/2 〞	

AMG编号 (NO.AMG)	进口(竖接口) inlet(Vertical interface)	出口(横接口) outlet(Horizontal interface)	备注:直通阀 Remarks:Pass valves
AMG13	1/4 〞	1/4 〞	螺纹为外螺纹 R Threads are male threads R
AMG14	3/8 〞	3/8 〞	
AMG15	1/2 〞	1/2 〞	
AMG16	1/4 〞	1/4 〞	螺纹为外螺纹 MPT Threads are male threads MPT
AMG17	3/8 〞	3/8 〞	
AMG18	1/2 〞	1/2 〞	
AMG19	1/4 〞	1/4 〞	竖接口为外螺纹 R 横接口为内螺纹 Rc Inlet is male threaded R Outlet is female threaded RC
AMG20	3/8 〞	3/8 〞	
AMG21	1/2 〞	1/2 〞	
AMG22	1/4 〞	1/4 〞	竖接口为外螺纹 MPT 横接口为内螺纹 FPT Inlet is female threaded MPT Outlet is male threaded FPT
AMG23	3/8 〞	3/8 〞	
AMG24	1/2 〞	1/2 〞	

截止过滤一体阀、过滤器
Combination valve (stop valve & filter)

DN15-25截止过滤一体阀
DN15-25 Combination valve (stop valve & filter)

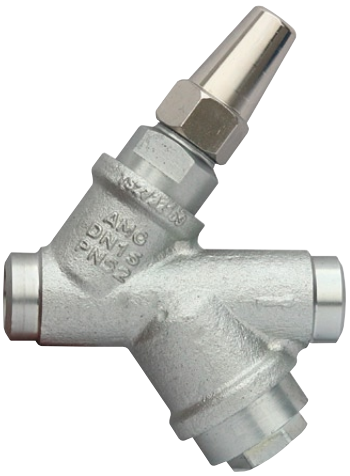
技术参数 Technical parameters

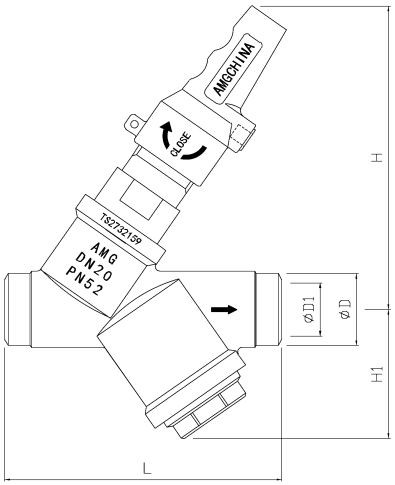
公称压力：4.0MPa
Nominal pressure: 4.0MPa

试验压力：6.0MPa
Test pressure: 6.0MPa

适用温度：−50℃~+150℃
Applicable temperature: −50℃ ~ +150℃

适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.

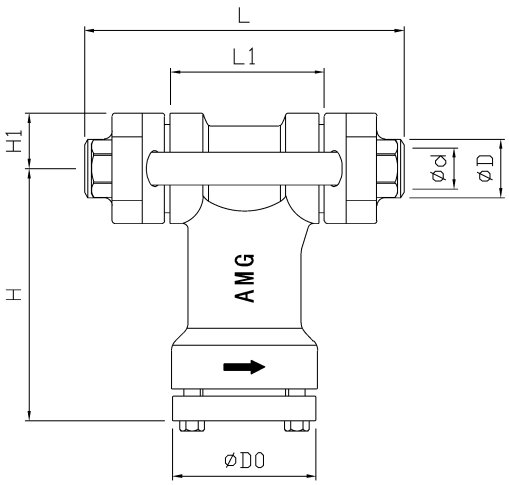




名称 Name	型号 Type	尺寸(mm) Size(mm)					重量(Kg) Weight
		ϕD	ϕD1	L	H	H1	
截止过滤一体阀 Stop valve & filter	JGY15-D	21	15	102	90	50	
	JGY20-D	28	20	110	125	50	
	JGY25-D	34	25	130	140	60	

AFA15-25过滤器
AFA15-25 filter

■ AFA型过滤器与VMP及AEVRA型电磁阀直接安装（参见P5页）
Combined with VMP and AEVRA valves (see page 5)



名称 Name	型号 Type	尺寸(mm) Size(mm)							重量(Kg) Weight
		ϕD	ϕd	L1	L	H	H1	ϕD0	
直通过滤器 Filter	AFA10	14	10	56	115	90	20	53	
	AFA15	21	15	56	115	90	20	53	
	AFA20	27	20	75	140	100	25	59	
	AFA25	34	25	75	140	100	25	59	

冰轮主机专用卡套阀
Main Engine Special Connection Valve for Yantai Moon

RVT6-10-RK卡套直角截止阀
RRT6-10-RK卡套直角调节阀
RVT6-10-RK Angle stop valve
RRT6-10-RK Angle and control valve

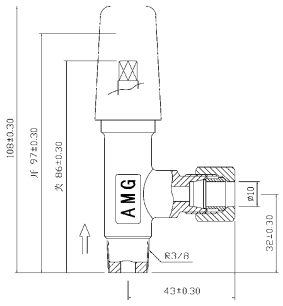
技术参数 Technical parameters

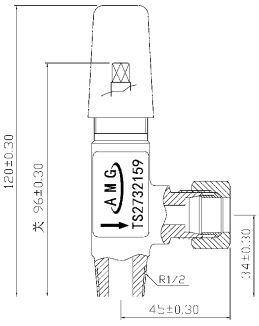
公称压力：4.0MPa
Nominal pressure: 4.0MPa

适用温度：−50℃~+150℃
Applicable temperature: −50℃ ~ +150℃

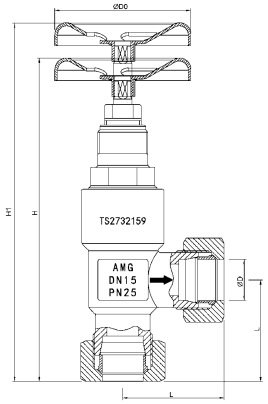
试验压力：6.0MPa
Test pressure: 6.0MPa

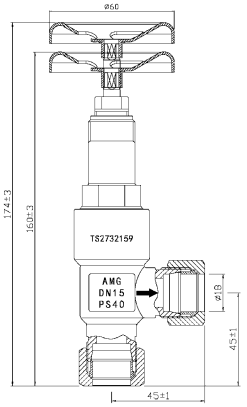
适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.





RVT/RRT15-20-K卡套直角截止阀/调节阀
VCT15-20-K卡套直角截止止回阀
RVT/RRT15-20-K Angle stop valve/control valve
VCT15-20-K Angle stop check valve





名称 Name	型号 Type	尺寸(mm) Size(mm)					重量 (Kg) Weight
		ϕD	ϕD0	L	H	H1	
直角截止阀/节流阀 Angle stop valve/control valve	RVT/RRT6-RK	R3/8	10	92	100		
	RVT/RRT10-RK	R1/2	14	92	100		
	RVT/RRT15-K	18	18	108	120	130	
	RVT/RRT20-K	25	25	146	135	145	
直角截止止回阀 Angle stop check valve	VCT15-K	18	18	108	160	175	
	VCT20-K	25	25	146	205	225	

RVY6-10-RK卡套直通截止阀
RRY6-10-RK卡套直通调节阀

RVY6-10-RK Straight-through stop valve
RRY6-10-RK Straight-through and control valve

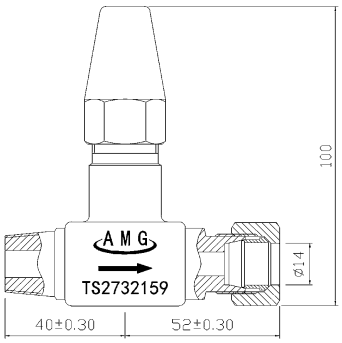
技术参数 Technical parameters

公称压力：4.0MPa
Nominal pressure: 4.0MPa

试验压力：6.0MPa
Test pressure: 6.0MPa

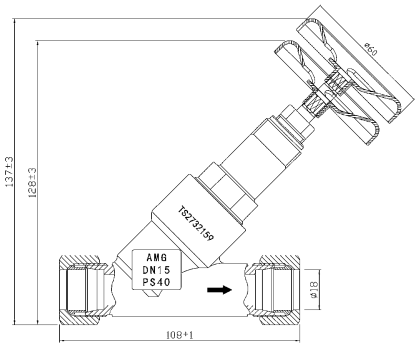
适用温度：−50℃~+150℃
Applicable temperature: −50℃ ~ +150℃

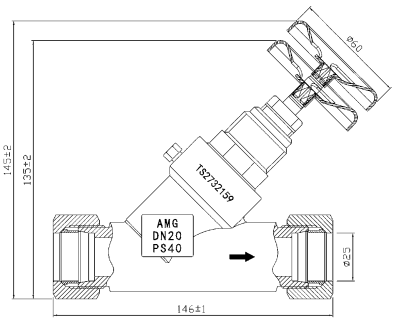
适用介质：氨、氟、丙烷、丙烯等。
Applicable medium: ammonia, fluorine, propane, propylene, etc.



RVY15-20-K卡套直通截止阀/调节阀
VCY15-20-K卡套直通截止止回阀

RVY15-20-D Straight-through stop valve/control valve
VCY15-20-D Straight-through stop check valve





名称 Name	型号 Type	尺寸(mm) Size(mm)					重量 (Kg) Weight
		ϕD	ϕD0	L	H	H1	
直通截止阀/节流阀 Straight-through stop valve/ control valve	RVY/RRY6-RK	R3/8	10	92	100		
	RVY/RRY10-RK	R1/2	14	92	100		
	RVY/RRY15-K	18	18	108	120	130	
	RVY/RRY20-K	25	25	146	135	145	
直通截止止回阀 Straight-through stop check valve	VCY15-K	18	18	108	128	137	
	VCY20-K	25	25	146	160	173	

埃姆基工业制冷阀门

AMG REFRIGERATION VALVES

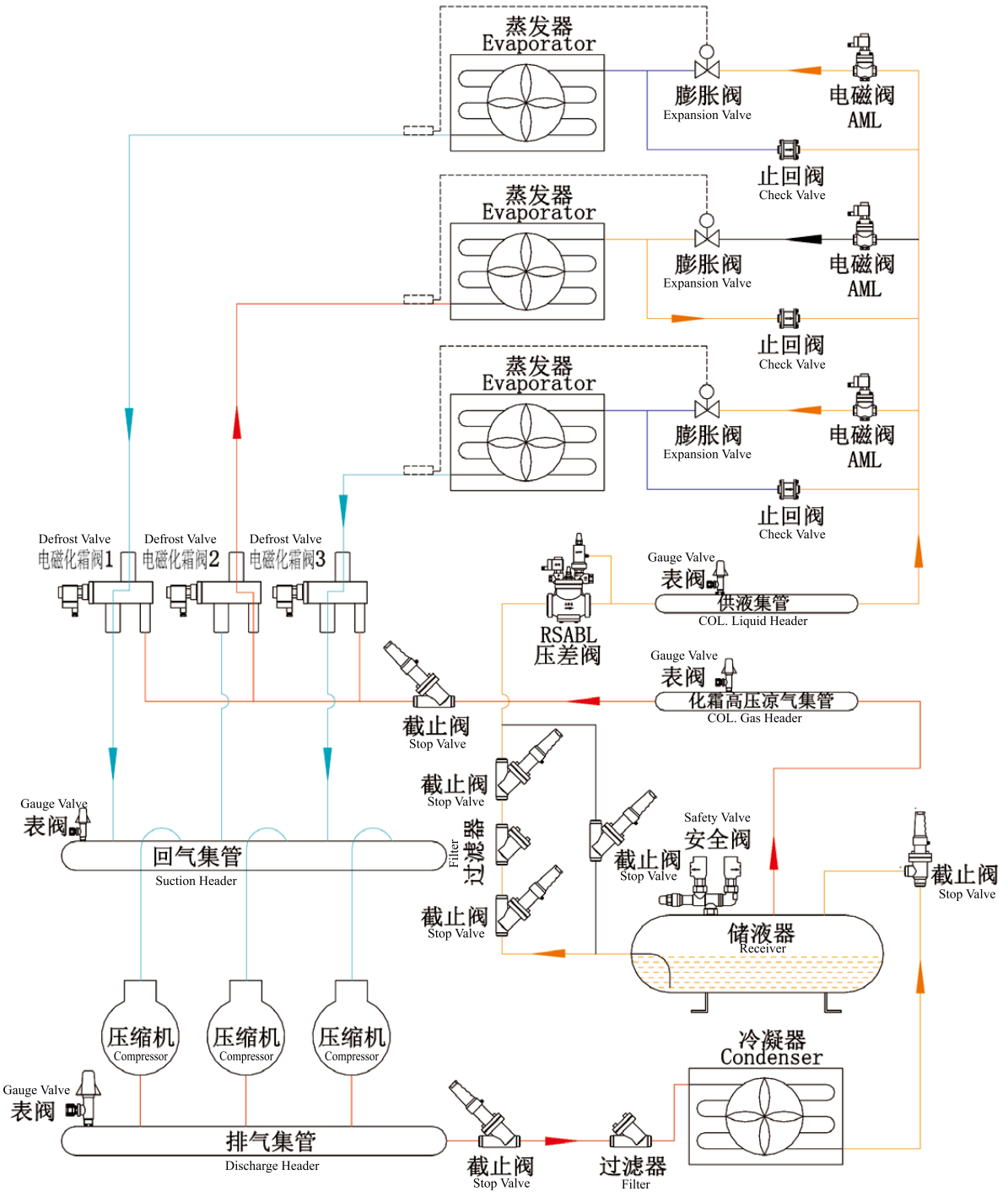
Refrigeration Valve

技 术 文 档

TECHNICAL DOCUMENTS

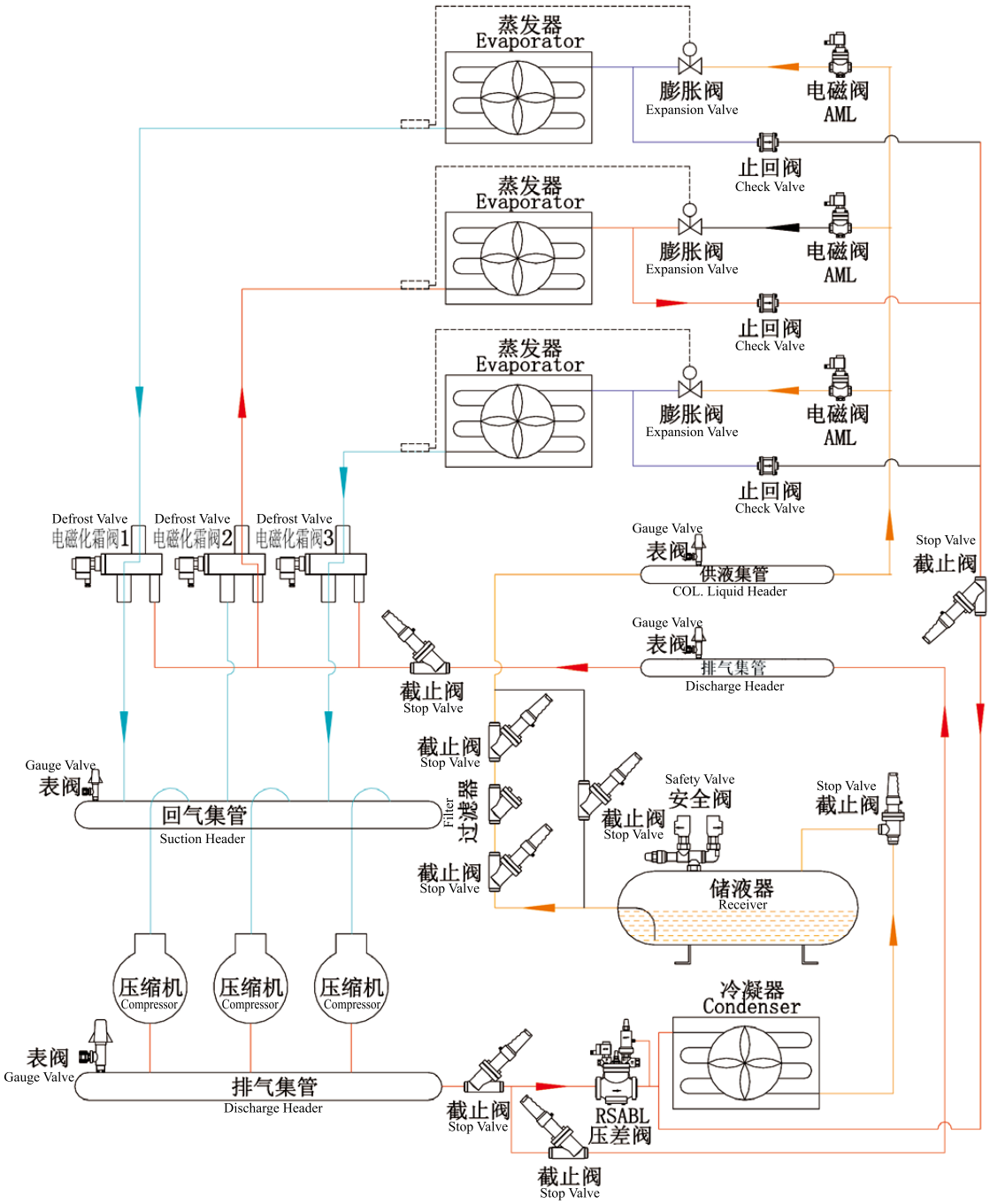
储液器热气化霜，泰勒循环

DEFROST FOR HOT GAS FROM THE RECEVER, TYLER METHOD



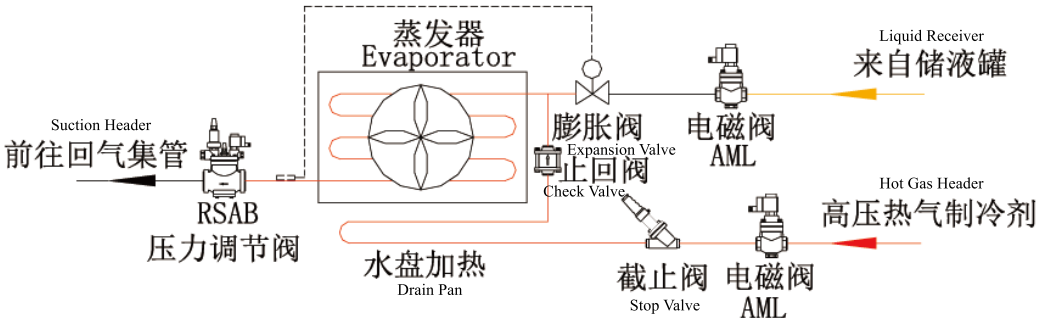
压缩机排气热气化霜

DEFROST FOR HOT GAS FROM COMPRESDR DISCHARGE



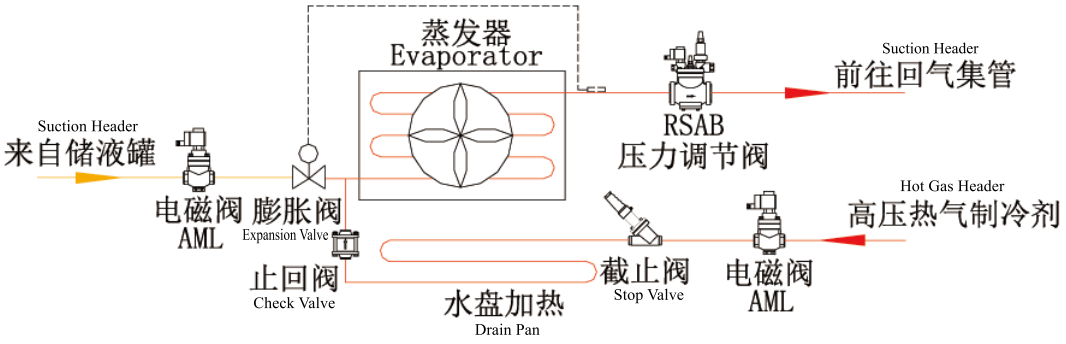
直接膨胀 热气从蒸发器上部进入化霜

DEFROST FOR HOT GAS IN DIRECT EXPANSION SYSTEMS (HOT GAS GO IN BY THE TOP OF THE EVAPORATOR)



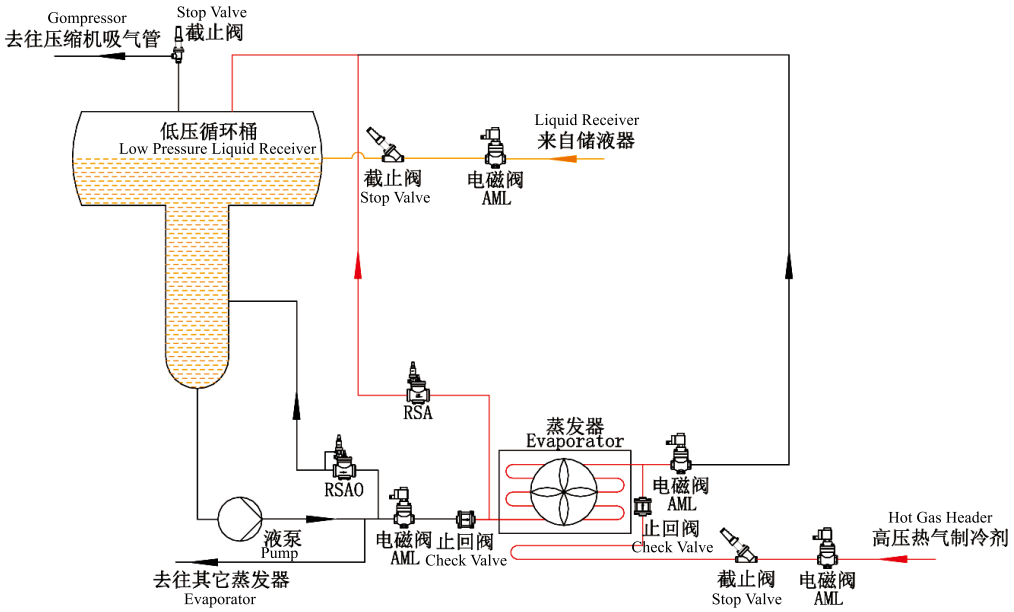
直接膨胀 热气从蒸发器下部进入化霜

DEFROST FOR HOT GAS IN DIRECT EXPANSION SYSTEMS (HOT GAS GO IN BY THE BOTTOM OF THE EVAPORATOR)



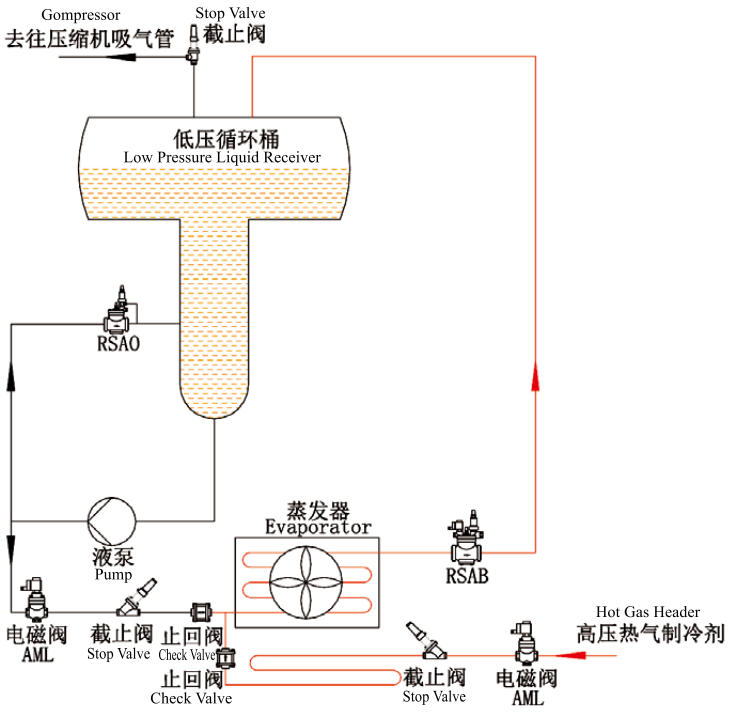
泵循环化霜　热气从蒸发器上部进入

PUMP CIRCULATING DEFROSTING HOT GAS ENTERS FROM THE TOP OF THE EVAPORATOR



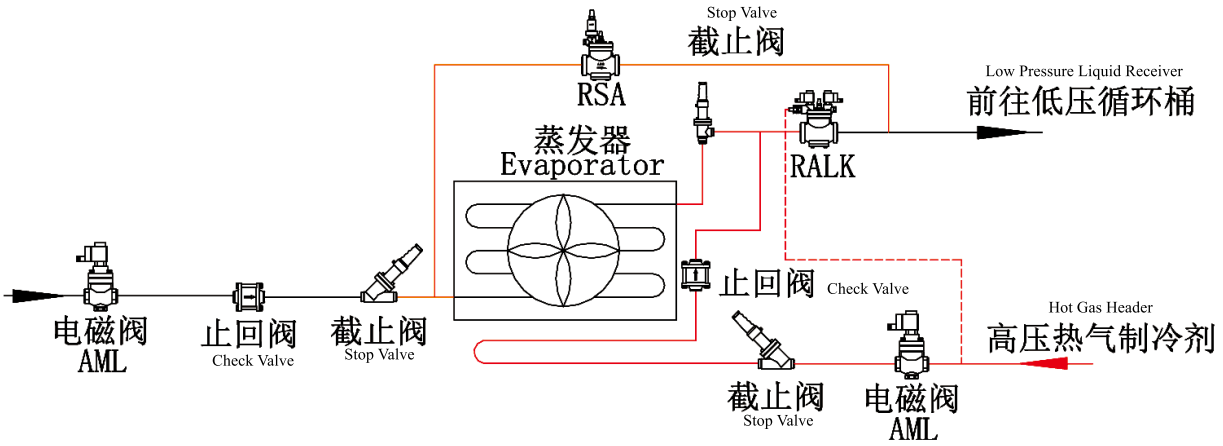
泵循环化霜　热气从蒸发器下部进入

PUMP CIRCULATING DEFROSTING HOT GAS ENTERS FROM THE BOTTOM OF THE EVAPORATOR



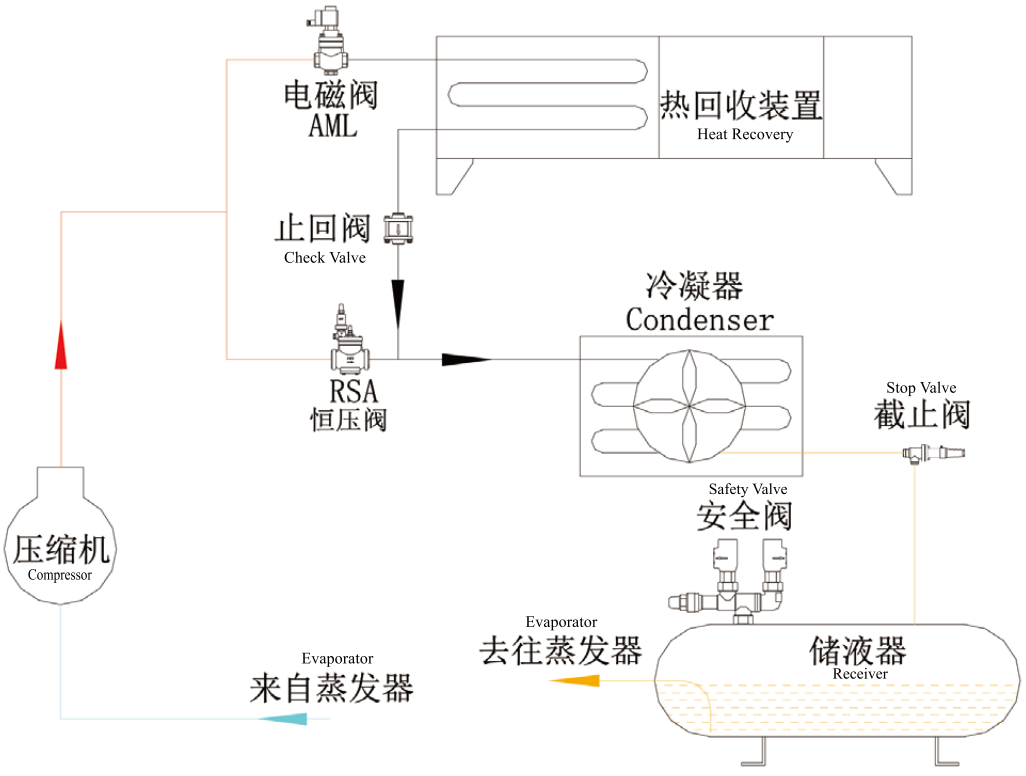
低温速冻隧道热气化霜

HOT GAS DEFROST ON LOW TEMPERATURE TUNNELS



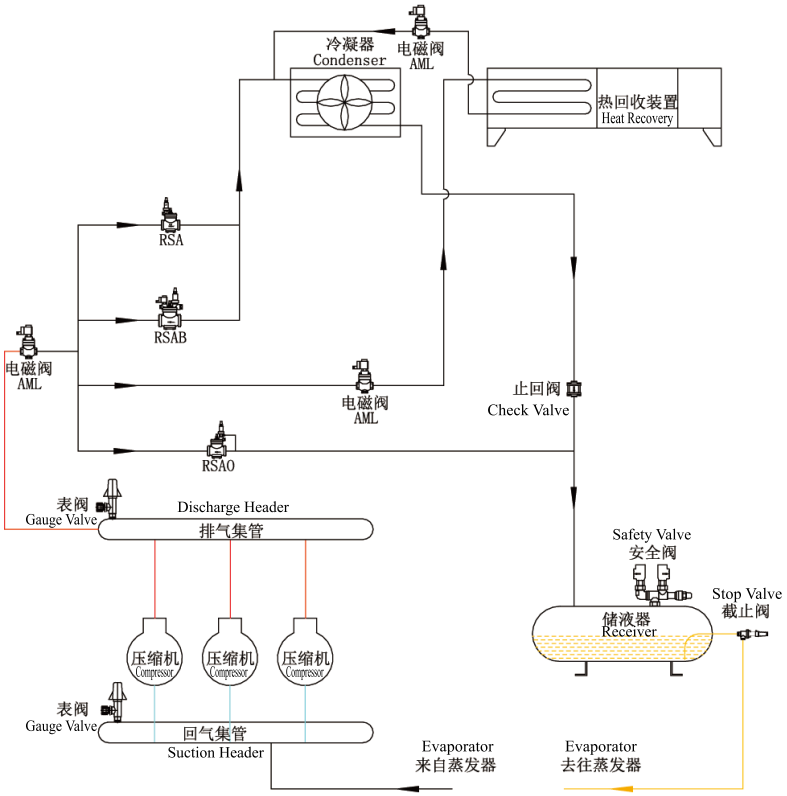
热回收系统 方法1

HEAT RECOVERY SYSTEMS METHOD 1



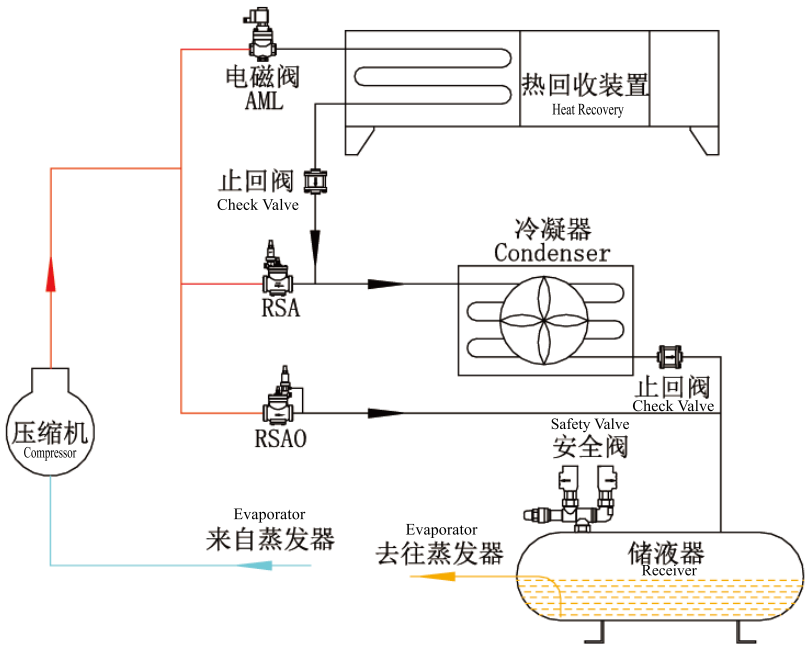
热回收系统 方法2 使用冷凝器热量采暖

Heat recovery system method 2 heating with condenser



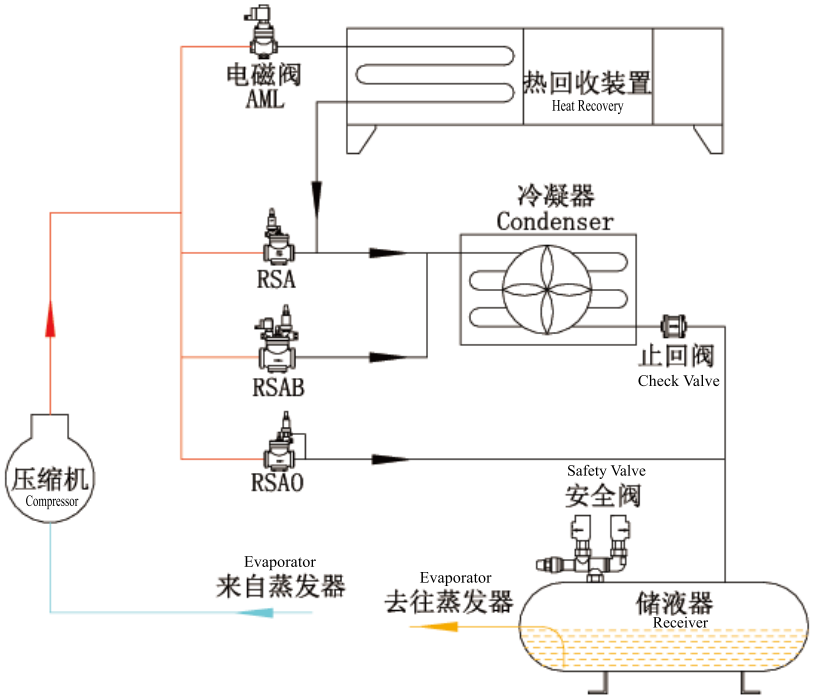
热回收系统 方法3 控制外部环境温度

Heat recovery system method 3 control of ontside temperature



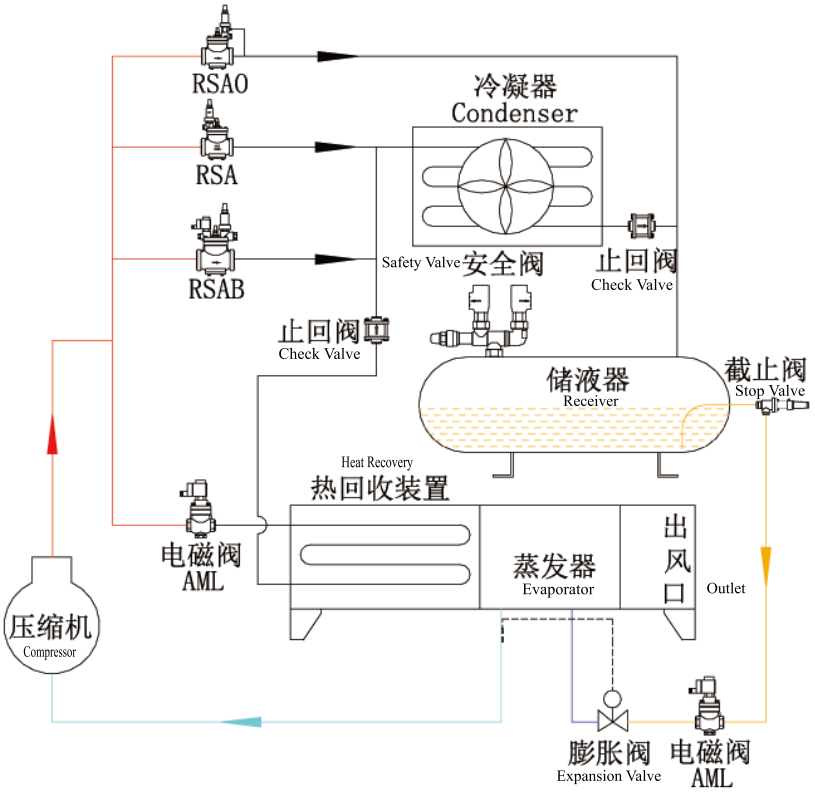
热回收系统 方法4 高温度回收热并且冷凝到正常温度

Heat recovery system method 4 high temperature recovery and condensation to normal temperature



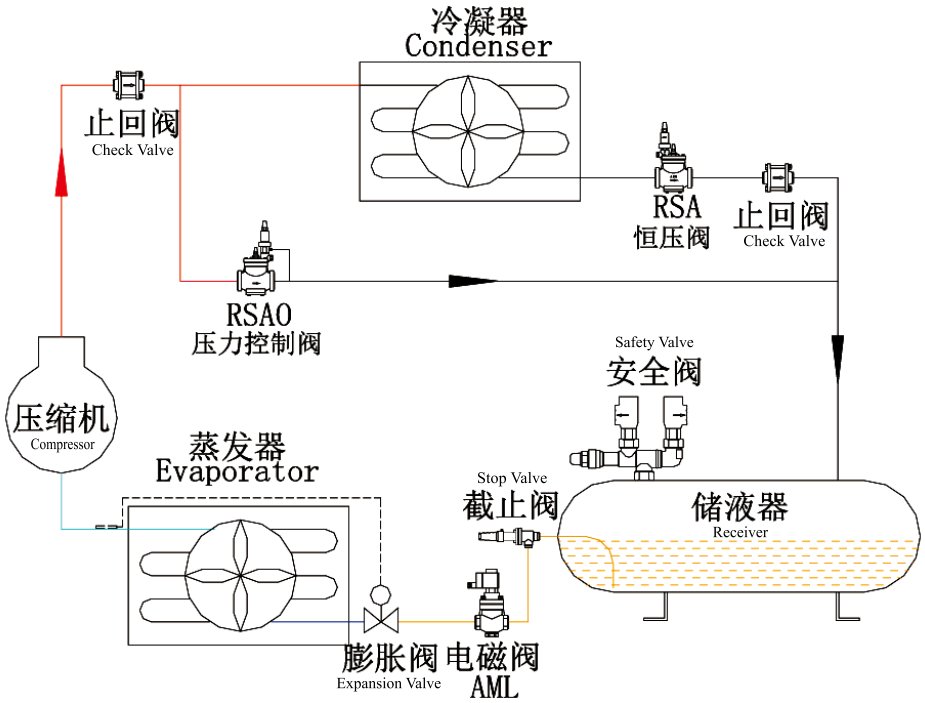
热回收系统 方法 5 需要大量热量的干燥间的热回收

Heat recovery system method 5 heat recovery in drying room requiring a large amount of heat



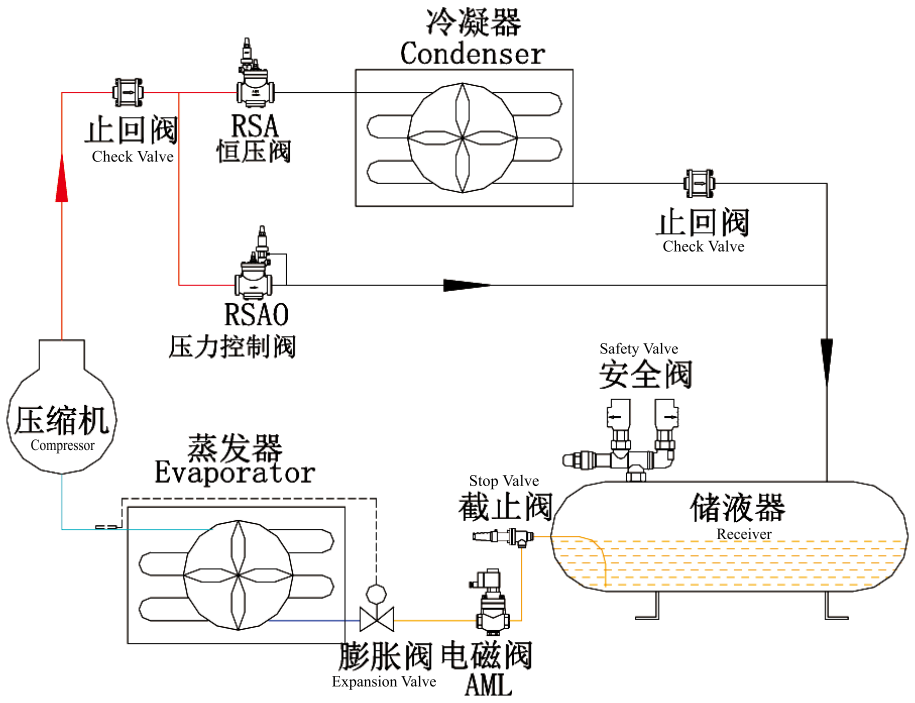
回液管路压力调节

DRAINAGE CONTROL IN CONDENSING LINE



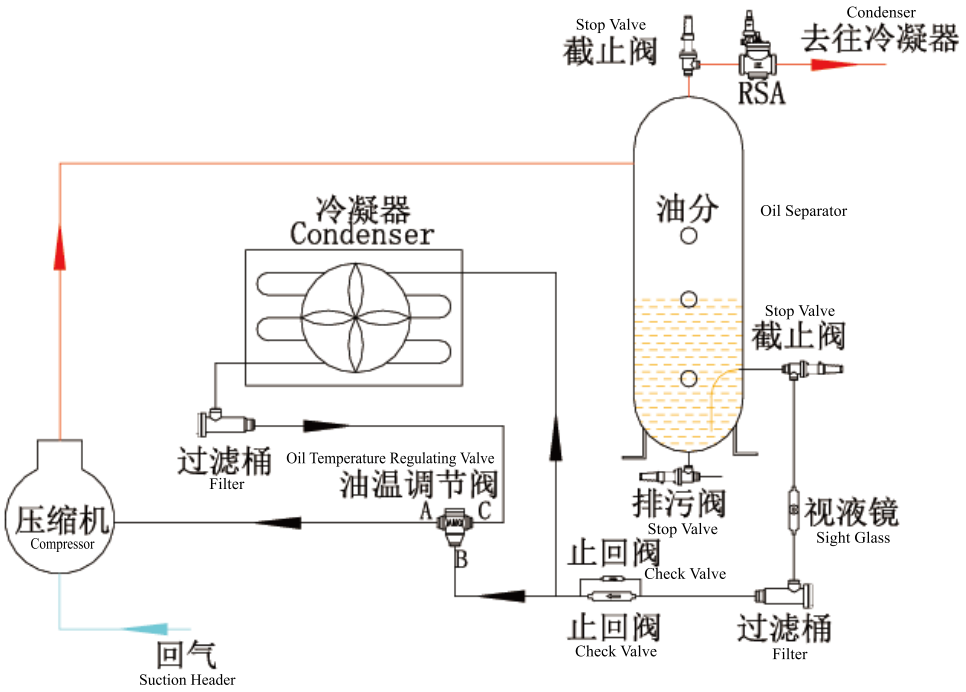
排气管路压力调节

CONTROL OF DISCHARGE PRESSURE



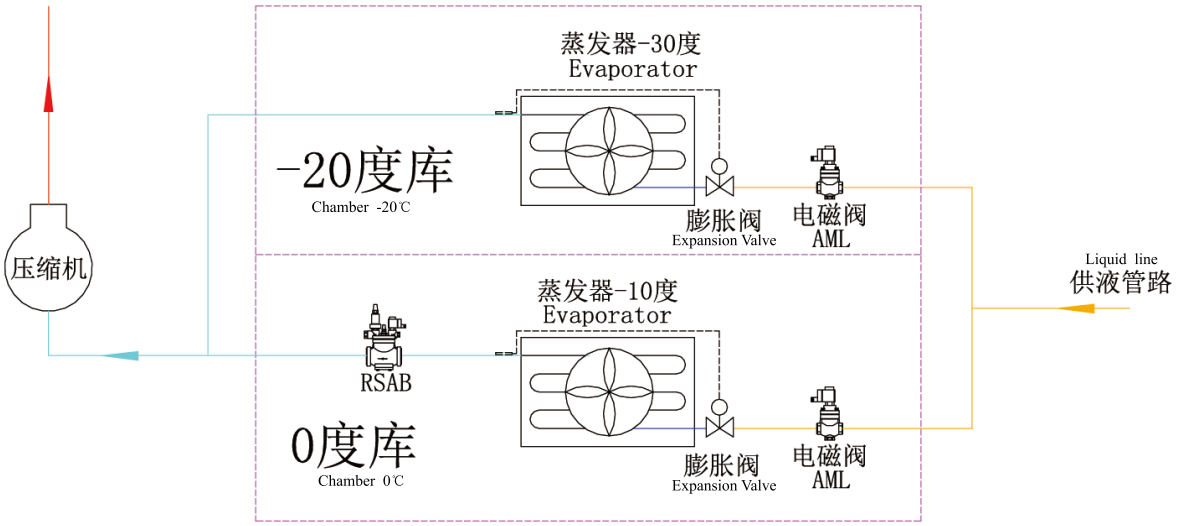
螺杆机无油泵油压稳定调节

OIL PRESSURE CONTROL IN SCREW COMPRESSORS



双温冷库系统吸气压力调节

SUCTION REGULATION,IN COLD-STORAGE ROOMS BI-TEMPERATURE



R-404A 及 R-507A直接膨胀应用
R404A & R-507A APLICATION FOR DIRECT EXPANSION

直铜管等效长度（米）
EQUIVALENT LENGTH IN MTS OF STRAIGHT COPPER PLPE

直径 DIAMETER	直通阀 STRAIGHT VALVES	直角阀 ANGLE VALVES	弯头90° ELBOW 90°	弯头45° ELBOW 45°
1/2”	2,7 m	1,5 m	0,27 m	0,12 m
5/8”	3,6 m	1,8 m	0,30 m	0,45 m
7/8”	4,5 m	2,4 m	0,45 m	0,21 m
1 1/8”	6,6 m	3,6 m	0,54 m	0,27 m
1 3/8”	8,4 m	4,5 m	0,72 m	0,36 m
1 5/8”	10,5 m	5,1 m	0,84 m	0,42 m
2 1/8”	13,5 m	6,6 m	1,17 m	0,54 m
2 5/8”	15,3 m	7,8 m	1,38 m	0,66 m
3 1/8”	19,5 m	10,2 m	1,65 m	0,81 m
3 5/8”	24,0 m	12,0 m	1,95 m	0,90 m

R-404A 及 R-507A直接膨胀应用
R404A & R-507A APLICATION FOR DIRECT EXPANSION

排气铜管直径
DIAMETER OF COPPER PIPE IN DISCHARGE LINE

制冷量 DIAMETER	等效长度（米） EQUIVALENT LENGTH IN MTS			
KW	15MTS	30MTS	45MTS	45MTS
1.8	1/2”	1/2”	1/2”	5/8”
3.5	5/8”	5/8”	5/8”	7/8”
5.2	5/8”	7/8”	7/8”	7/8”
7	7/8”	7/8”	7/8”	7/8”
10.5	7/8”	7/8”	1 1/8”	1 1/8”
14	7/8”	1 1/8”	1 1/8”	1 1/8”
17.5	1 1/8”	1 1/8”	1 1/8”	1 3/8”
22	1 1/8”	1 1/8”	1 3/8”	1 3/8”
29	1 1/8”	1 3/8”	1 3/8”	1 5/8”
44	1 3/8”	1 3/8”	1 5/8”	1 5/8”
58	1 3/8”	1 5/8”	1 5/8”	2 1/8”
87	1 5/8”	2 1/8”	2 1/8”	2 1/8”
116	2 1/8”	2 1/8”	2 1/8”	2 5/8”
145	2 1/8”	2 1/8”	2 5/8”	2 5/8”
175	2 1/8”	2 5/8”	2 5/8”	3 1/8”
220	2 5/8”	2 5/8”	2 5/8”	3 1/8”

以上数据介于压降在0.32–0.65bar，并且流速低于15m/s
The above data is based on ΔP between 0.32 to 0.65 Bar, and the flow velocity less than 15m/s

R-404A 及 R-507A直接膨胀应用

R404A & R-507A APLICATION FOR DIRECT EXPANSION

供液铜管直径
DIAMETER OF COPPER PIPE IN LIQUID LINE

制冷量 CAPACITY	冷凝器 CONDENSERS	等效长度（米） EQUIVALENT LENGTH IN MTS			
KW	∅	15MTS	30MTS	45MTS	60MTS
1,8	3/8”	1/4”	3/8”	3/8”	3/8”
3,5	1/2”	3/8”	1/2”	1/2”	1/2”
5,2	5/8”	1/2”	1/2”	1/2”	1/2”
7,0	5/8”	1/2”	5/8”	5/8”	5/8”
10,5	7/8”	1/2”	5/8”	5/8”	5/8”
14,0	7/8”	5/8”	5/8” “	5/8”	7/8”
17,5	7/8”	5/8”	7/8”	7/8”	7/8”
22,0	7/8”	5/8”	7/8”	7/8”	7/8”
29,0	1 1/8”	7/8”	7/8”	7/8”	7/8”
44,0	1 3/8”	7/8”	7/8”	1 1/8”	1 1/8”
58,0	1 3/8”	1 1/8”	1 1/8”	1 1/8”	1 1/8”
87,0	1 5/8”	1 3/8”	1 3/8”	1 3/8”	1 3/8”
116,0	1 5/8”	1 3/8”	1 3/8”	1 3/8”	1 3/8”
145,0	2 1/8”	1 3/8”	1 3/8”	1 5/8”	1 5/8”
175,0	2 1/8”	1 5/8”	1 5/8”	1 5/8”	1 5/8”
220,0	2 1/8”	2 1/8”	2 1/8”	2 1/8”	2 1/8”

以上数据介于压降在0.19—0.33bar，过冷液体压降通常是2倍。

并且流速低于15m/s，尤其是当供液管路有电磁阀存在的时候。

如果储液器安装位置比蒸发器低，那么需要考虑每3米的高度差，压降会增加0.32bar.

The above data is based on ΔP between 0.19 to 0.33 Bar, cool liquid ΔP is normally double

The flow velocity is less than 15m/s, especially there is solenoid valve on this line

If the receiver installed lower than evaprator, should consider that ΔP increase 0.32 bar each 3m height difference.

R-404A 及 R-507A直接膨胀应用

R404A & R-507A APLICATION FOR DIRECT EXPANSION

吸气管路铜管直径
DIAMETER OF COPPER PIPE IN SUCTION

制冷量 CAPACITY	蒸发温度	等效长度（米） EQUIVALENT LENGTH IN MTS							
KW	℃	15 MTS		30 MTS		45 MTS		60 MTS	
		水平	垂直	水平	垂直	水平	垂直	水平	垂直
1.8	- 30° a - 33°	7/8”	7/8”	7/8”	7/8”	7/8”	7/8”	7/8”	7/8”
	- 40°	7/8”	7/8”	1 1/8”	7/8”	1 1/8”	7/8”	1 1/8”	7/8”
3.5	- 30° a - 33°	1 1/8”	1 1/8”	1 1/8”	1 1/8”	1 1/8”	1 1/8”	1 1/8”	1 1/8”
	- 40°	1 1/8”	1 1/8”	1 3/8”	1 1/8”	1 3/8”	1 1/8”	1 3/8”	1 1/8”
5.2	- 30° a - 33°	1 1/8”	1 1/8”	1 3/8”	1 1/8”	1 3/8”	1 1/8”	1 3/8”	1 1/8”
	- 40°	1 3/8”	1 3/8”	1 5/8”	1 3/8”	1 5/8”	1 3/8”	1 5/8”	1 3/8”
7.0	- 30° a - 33°	1 3/8”	1 3/8”	1 3/8”	1 3/8”	1 5/8”	1 3/8”	1 5/8”	1 3/8”
	- 40°	1 3/8”	1 3/8”	1 5/8”	1 3/8”	1 5/8”	1 3/8”	2 1/8”	1 3/8”
10.5	- 30° a - 33°	1 5/8”	1 5/8”	1 5/8”	1 5/8”	1 5/8”	1 5/8”	1 5/8”	1 5/8”
	- 40°	1 5/8”	1 5/8”	2 1/8”	1 5/8”	2 1/8”	1 5/8”	2 1/8”	1 5/8”
14.0	- 30° a - 33°	1 5/8”	1 5/8”	2 1/8”	1 5/8”	2 1/8”	1 5/8”	2 1/8”	1 5/8”
	- 40°	2 1/8”	1 5/8”	2 1/8”	2 1/8”	2 5/8”	2 1/8”	2 5/8”	2 1/8”
17.5	- 30° a - 33°	1 5/8”	1 5/8”	2 1/8”	1 5/8”	2 1/8”	1 5/8”	2 5/8”	1 5/8”
	- 40°	2 1/8”	1 5/8”	2 1/8”	2 1/8”	2 5/8”	2 1/8”	2 5/8”	2 1/8”
22.0	- 30° a - 33°	2 1/8”	1 5/8”	2 5/8”	1 5/8”	2 5/8”	1 5/8”	2 5/8”	1 5/8”
	- 40°	2 1/8”	2 1/8”	2 5/8”	2 1/8”	2 5/8”	2 1/8”	2 5/8”	2 1/8”
29.0	- 30° a - 33°	2 1/8”	2 1/8”	2 5/8”	2 1/8”	2 5/8”	2 1/8”	2 5/8”	2 1/8”
	- 40°	2 1/8”	2 1/8”	2 5/8”	2 1/8”	3 1/8”	2 1/8”	3 1/8”	2 1/8”
44.0	- 30° a - 33°	2 1/8”	2 5/8”	2 1/8”	2 5/8”	3 1/8”	2 1/8”	3 1/8”	2 5/8”
	- 40°	2 5/8”	2 5/8”	3 1/8”	2 5/8”	3 5/8”	2 5/8”	3 5/8”	2 5/8”
58.0	- 30° a - 33°	2 5/8”	2 1/8”	3 1/8”	2 5/8”	3 1/8”	2 5/8”	3 5/8”	2 5/8”
	- 40°	3 1/8”	3 1/8”	3 5/8”	3 1/8”	3 5/8”	3 1/8”	4 1/8”	3 1/8”
87.0	- 30° a - 33°	3 1/8”	2 5/8”	3 1/8”	3 1/8”	3 5/8”	3 1/8”	4 1/8”	3 1/8”

以上数据介于压降在0.11bar—0.075bar.
水平管内流速必须大于3.5m/s,垂直管内流速必须大于7.5m/s,以保证冷冻油的回流。

The above data is based on ΔP between 0.11 to 0.075 Bar.

The flow velocity in horizontal line should be larger than 3.5m/s, in vertial line should be larger than 7.5m/s, to ensure the back flow of refrigerant oil.

R-404A 及 R-507A直接膨胀应用

R404A & R-507A APLICATION FOR DIRECT EXPANSION

吸气管路铜管直径
DIAMETER OF COPPER PIPE IN SUCTION

制冷量 CAPACITY	蒸发温度	等效长度（米） EQUIVALENT LENGTH IN MTS							
KW	℃	15 MTS		30 MTS		45 MTS		60 MTS	
		水平	垂直	水平	垂直	水平	垂直	水平	垂直
1,8	- 10º a - 13º	5/8”	5/8”	5/8”	5/8”	5/8”	5/8”	5/8”	5/8”
3,5	- 10º a - 13º	7/8”	7/8”	7/8”	7/8”	7/8”	7/8”	7/8”	7/8”
5,2	- 10º a - 13º	7/8”	7/8”	7/8”	7/8”	1 1/8”	7/8”	1 1/8”	7/8”
7,0	- 10º a - 13º	1 1/8”	7/8”	1 1/8”	7/8”	1 1/8”	7/8”	1 1/8”	1 1/8”
10,5	- 10º a - 13º	1 1/8”	1 1/8”	1 3/8”	1 1/8”	1 3/8”	1 1/8”	1 3/8”	1 1/8”
14,0	- 10º a - 13º	1 3/8”	1 3/8”	1 3/8”	1 3/8”	1 3/8”	1 3/8”	1 5/8”	1 3/8”
17,5	- 10º a - 13º	1 3/8”	1 3/8”	1 5/8”	1 3/8”	1 5/8”	1 3/8”	1 5/8”	1 3/8”
22,0	- 10º a - 13º	1 3/8”	1 3/8”	1 5/8”	1 3/8”	1 5/8”	1 3/8”	1 5/8”	1 5/8”
29,0	- 10º a - 13º	1 5/8”	1 5/8”	1 5/8”	1 5/8”	2 1/8”	1 5/8”	2 1/8”	1 5/8”
44,0	- 10º a - 13º	2 1/8”	1 5/8”	2 1/8”	1 5/8”	2 1/8”	1 5/8”	2 1/8”	1 5/8”
58,0	- 10º a - 13º	2 1/8”	2 1/8”	2 5/8”	2 1/8”	2 5/8”	2 1/8	2 5/8”	2 1/8”
87,0	- 10º a - 13º	2 1/8”	2 1/8”	2 5/8”	2 1/8”	3 1/8”	2 1/8”	3 1/8”	2 1/8”
116,0	- 10º a - 13º	2 5/8”	2 5/8”	3 1/8”	2 5/8”	3 1/8”	2 5/8”	3 1/8”	2 5/8”
145,0	- 10º a - 13º	2 5/8”	2 5/8”	3 1/8”	2 5/8”	3 5/8”	2 5/8”	3 5/8”	3 1/8”
175,0	- 10º a - 13º	3 1/8”	3 1/8”	3 5/8”	3 1/8”	3 5/8”	3 1/8”	3 5/8”	3 5/8”
220,0	- 10º a - 13º	3 1/8”	3 1/8”	3 5/8”	3 1/8”	3 5/8”	3 1/8”	4 1/8”	3 5/8”

以上数据介于压降在0.11bar—0.075bar.
水平管内流速必须大于3.5m/s,垂直管内流速必须大于7.5m/s,以保证冷冻油的回流。

The above data is based on ΔP between 0.11 to 0.075 Bar.

The flow velocity in horizontal line should be larger than 3.5m/s, in vertial line should be larger than 7.5m/s, to ensure the back flow of refrigerant oil.

电磁阀吸气制冷量KW

SOLENOID VALVES SUCTION VAPOUR CAPACITIES KW

R-717 NH3									
蒸发温度	△P	AML							
℃	Bar	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
5°	0.2	57	86	152	276	380	665	998	1710
	0.3	70	104	186	336	464	812	1218	2088
0°	0.2	52	77	138	249	344	602	903	1548
	0.3	63	95	168	305	420	735	1103	1890
-10°	0.2	41	62	110	200	276	483	725	1242
	0.3	51	77	136	247	340	595	893	1530
-20°	0.2	33	50	88	160	220	385	578	990
	0.3	40	60	107	194	268	469	704	1206
-30°	0.2	29	44	78	142	196	343	515	882
	0.3	36	54	96	174	240	420	630	1080
-40°	0.2	22	32	58	104	144	252	378	648
	0.3	26	40	70	128	176	308	462	792

R-404A									
蒸发温度	△P	AML							
℃	Bar	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
5°	0.2	19	29	52	94	129	226	339	581
	0.3	36	54	97	176	242	424	635	1089
0°	0.2	24	36	65	117	162	283	425	728
	0.3	33	49	88	159	219	383	575	985
-10°	0.2	18	27	49	88	122	213	319	547
	0.3	25	37	66	120	165	289	433	743
-20°	0.2	11	16	28	51	70	123	185	317
	0.3	14	21	38	69	95	166	249	426
-30°	0.2	9	14	24	44	61	106	159	273
	0.3	12	18	32	58	79	139	208	357
-40°	0.2	8	12	21	38	53	92	139	238
	0.3	6	10	17	31	43	76	113	194

R-507A									
蒸发温度	△P	AML							
℃	Bar	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
5°	0.2	20	30	53	96	133	233	349	599
	0.3	28	42	74	134	185	323	485	832
0°	0.2	18	27	48	87	120	211	316	542
	0.3	25	37	67	121	167	292	437	750
-10°	0.2	14	21	38	69	95	167	250	428
	0.3	20	29	52	95	131	229	344	590
-20°	0.2	11	17	30	55	76	133	199	342
	0.3	16	23	41	75	104	181	272	466
-30°	0.2	10	15	26	47	65	113	170	291
	0.3	13	19	34	61	84	148	222	380
-40°	0.2	7	10	18	32	45	78	117	201
	0.3	8	12	22	40	55	95	143	246

以上值基于液体温度=30°（氨液），液体温度40°（R404A或R507A）对于液体温度=±5K，制冷量参数将会对于氨变化±3%，对于R404A和R507A变化±5%
对于要求△p<0.2的场合，请使用本公司气动阀RAK RAK—W RACK RALK及RAXK

If liquid temperature equal to 30℃ (liquid ammonia), liquid temperature equal to 40℃ (R404 or R507A), for liquid temperature change ±5K, the capacity (for ammonia) will chang ±3%, the capacity (for R404A & R507A) will change ±5%
For the working situation ΔP<0.2 Bar, please choose RAK, RAK-W, RACK, RALK, or RAXK

电磁阀热气管路制冷量KW
HOT GAS CAPACITIES KW

R-717 NH3											
蒸发温度	△P	AML									
℃	Bar	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
25	0.2	32	47	74	111	197	357	492	861	1292	2214
	0.4	45	66	104	156	277	502	692	1211	1817	3114
	0.6	55	80	126	189	336	609	840	1470	2205	3780
30	0.2	34	50	79	118	210	380	524	917	1376	2358
	0.4	48	70	110	165	293	531	732	1281	1922	3294
	0.6	58	85	134	201	357	647	892	1561	2342	4014
35	0.2	36	52	83	124	221	400	552	966	1449	2484
	0.4	50	74	116	175	310	563	776	1358	2037	3492
	0.6	61	90	142	212	378	684	944	1652	2478	4248
45	0.2	39	57	91	136	242	438	604	1057	1586	2718
	0.4	56	82	129	194	344	624	860	1505	2258	3870
	0.6	68	100	158	237	421	763	1052	1841	2762	4734

R-404A R-507A											
蒸发温度	△P	AML									
℃	Bar	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
25	0.2	17	24	38	58	102	186	256	448	672	1152
	0.4	12	17	27	41	73	132	182	319	478	819
	0.6	20	30	47	70	124	225	311	544	816	1399
30	0.2	13	18	29	44	78	141	194	339	509	872
	0.4	18	26	41	61	108	196	271	474	711	1219
	0.6	21	31	50	74	132	239	330	578	866	1485
35	0.2	13	19	31	46	82	148	204	357	536	919
	0.4	19	27	43	65	115	208	287	502	754	1292
	0.6	23	33	52	79	140	253	349	611	917	1572
45	0.2	15	21	34	50	89	162	223	391	587	1006
	0.4	21	30	48	72	127	231	318	557	835	1432
	0.6	25	37	58	88	156	282	389	681	1022	1752

以上值基于热气温度=冷凝温度30°，而蒸发温度=−10°
在蒸发温度−40°到10°之间变动时，以上参数波动范围在±3%。
对于要求△p<0.2的场合，请使用本公司气动阀RAK RAK−W RACK RALK及RAXK

The above data is based on hot gas temperature = condensing temperature 30℃ evaporating temperature=-10℃
If the evaporating temperature change between -40℃ to 10℃, the above data will variate in a range of ±3%
For the working situation ΔP<0.2 Bar, please choose RAK, RAK-W, RACK, RALK, or RAXK

电磁阀高压液体管路制冷量KW

SOLENOID VALVES HIGH PRESSURE LIQUID LINE GAPACITIES KW

R-717 NH3										
△P	AML									
Bar	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
0.2	284	415	656	984	1749	3170	7651	656	11477	19674
0.3	348	508	803	1204	2141	3880	9366	803	14049	24084
0.4	402	587	927	1391	2472	4481	10815	927	16223	27810
0.5	449	656	1036	1554	2763	5008	12089	1036	18134	31086

R-404A y R-507A										
△P	AML									
Bar	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
0.2	37	54	85	128	227	412	568	995	1492	2558
0.3	45	66	104	157	278	504	696	1218	1826	3131
0.4	52	76	121	181	321	582	803	1406	2109	3615
0.5	58	85	135	202	359	651	898	1572	2357	4041

以上数据根据Tevap=−10° 以及Tliquid=25° 计算，无闪发气体。
The above data is based on evaporating temperature=-10℃, liquid temperature=25℃, no flash gas

电磁阀低压液体管路−泵循环管制冷量KW

SOLENOID VALVES LOW PRESSURE LIQUID LINE-PUMPED LIQUID CIRCULATION KW

R-717 NH3										
△P	AML									
Bar	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
0.2	85	124	195	293	520	943	1300	2275	3413	5850
0.3	103	151	239	358	637	1154	1592	2786	4179	7164
0.4	120	175	276	414	736	1334	1840	3220	4830	8280
0.5	134	195	308	463	822	1491	2056	3598	5397	9252

R-404A y R-507A										
△P	AML									
Bar	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
0.2	42	62	98	146	260	471	650	1138	1706	2925
0.3	52	76	119	179	318	577	796	1393	2090	3582
0.4	60	87	138	207	368	667	920	1610	2415	4140
0.5	67	98	154	231	411	745	1028	1799	2699	4626

以上数值根据液体温度为−10° ，蒸发温度为−10° ，循环倍率为4：1，对于循环倍率R不同于4的情况，将该值除以4，R/4
在蒸发温度−40° 到10° 之间时，以上参数变化幅度可以或略
对于要求△p<0.2的场合，请使用本公司气动阀RAK RAK−W RACK RALK及RAXK

The above data is based on evaporating temperature=-10℃, liquid temperature=25℃, no flash gas
The above data is based on liquid temperature=-10℃evaporating temperature=-10℃, circulation factor is 4:1, for circulation factor (R) is not 4, use R/4
If the evaporating temperature change between -40℃ to 10℃, the change of above data can be ignored
For the working situation ΔP<0.2 Bar, please choose RAK, RAK-W, RACK, RALK, or RAXK

电磁阀热气化霜制冷量KW

SOLENOID VALVES HOT GAS DEFROST CAPACITIES KW

制冷剂	AML							
	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65
R-717NH3	20	29	46	69	123	222	307	537
R404A	10	14	22	33	59	80	110	192
R507A	9	14	21	32	57	77	106	185

调节阀热气化霜制冷量KW

REGULATION VALVES HOT GAS DEFROST CAPACITIES KW

制冷剂	RSA							
	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65
R-717NH3	34	49	78	117	208	275	380	665
R404A	17	24	22	33	59	80	110	192
R507A	15	24	21	32	57	77	106	185

以上数据根据冷库温度−20° 及蒸发器温差△p=5K来计算

The above data is based on cold storage temperature=-20℃ evaporating temperature difference = 5K

调节阀吸气制冷量KW

REGULATING VALVES SUCTION VAPOUR CAPACITIES KW

R-717 NH3											
蒸发温度	△P	RSA									
˚C	Bar	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
5°	0.2	25	36	57	86	152	276	380	665	998	1710
	0.4	34	50	79	119	211	383	528	924	1386	2376
	0.6	41	60	95	142	253	458	632	1106	1659	2844
	1	51	75	118	177	315	571	788	1379	2069	3546
0°	0.2	22	33	52	77	138	249	344	602	903	1548
	0.4	31	45	71	107	190	345	476	833	1250	2142
	0.6	37	54	85	128	227	412	568	994	1491	2556
	1	46	67	105	158	280	508	700	1225	1838	3150
-10°	0.2	18	26	41	62	110	200	276	483	725	1242
	0.4	25	36	57	86	152	276	380	665	998	1710
	0.6	29	43	67	101	179	325	448	784	1176	2016
	1	35	51	81	122	216	392	540	945	1418	2430
-20°	0.2	14	21	33	50	88	160	220	385	578	990
	0.4	19	28	44	67	118	215	296	518	777	1332
	0.6	22	32	51	77	136	247	340	595	893	1530
-30°	0.2	13	19	29	44	78	142	196	343	515	882
-40°	0.2	9	14	22	32	58	104	144	252	378	648

R-404A											
蒸发温度	△P	RSA									
˚C	Bar	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
5°	0.2	9	12	20	30	52	95	131	229	344	590
	0.4	12	17	27	41	73	132	182	319	478	820
	0.6	14	21	33	49	87	158	218	382	572	981
	1	18	26	41	61	109	197	272	476	714	1223
0°	0.2	8	11	18	26	47	85	117	205	307	526
	0.4	11	15	24	36	65	117	162	283	425	728
	0.6	13	18	29	43	77	140	193	338	507	869
	1	15	23	36	54	95	173	238	417	625	1071
-10°	0.2	6	9	14	20	36	66	91	159	239	410
	0.4	8	12	19	28	50	91	125	219	329	564
	0.6	10	14	22	33	59	107	148	259	388	665
	1	12	17	27	40	71	129	178	312	468	802
-20°	0.2	5	7	11	16	28	51	70	123	185	317
	0.4	6	9	14	21	38	69	95	166	249	426
	0.6	7	10	16	24	44	79	109	190	286	490
-30°	0.2	4	6	9	14	24	44	61	106	159	273
	0.4	5	8	12	18	32	58	79	139	208	357
-40°	0.2	3	4	6	10	17	31	43	76	113	194
	0.4	3	5	8	12	21	38	53	92	139	238

调节阀吸气制冷量KW

REGULATING VALVES SUCTION VAPOUR CAPACITIES KW

R-507A											
蒸发温度	△P	RSA									
℃	Bar	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
5°	0.2	9	13	20	30	54	98	135	236	354	607
	0.4	12	18	28	42	75	136	187	328	492	843
	0.6	15	21	34	50	90	163	224	393	589	1010
	1	18	27	42	63	112	203	280	490	734	1259
0°	0.2	8	11	18	27	48	87	120	211	316	542
	0.4	11	16	25	37	67	121	167	292	437	750
	0.6	13	19	30	45	80	144	199	348	522	895
	1	16	23	37	55	98	178	245	429	643	1103
-10°	0.2	6	9	14	21	38	69	95	167	250	429
	0.4	9	12	20	30	52	95	131	229	344	590
	0.6	10	15	23	35	62	112	155	270	406	696
	1	12	18	28	42	75	135	186	326	489	838
-20°	0.2	5	7	11	17	30	54	75	131	196	337
	0.4	7	10	15	23	40	73	101	176	264	453
	0.6	8	11	17	26	46	84	116	202	303	520
-30°	0.2	4	6	9	14	25	45	63	110	165	282
	0.4	5	8	12	18	33	59	82	143	215	369
-40°	0.2	3	4	7	10	18	32	45	78	117	201
	0.4	4	5	8	12	22	40	55	95	143	246

以上数据根据液体温度30° (NH3),及液体温度40° (R404A及R507A)来计算
对于液体温度波动为±5K,对于氨制冷量变动±3%，对于R404A及R507A变动±5%
对于−30° 及−40° 的双极系统，按照液体温度为−10° 来计算
对于要求△p<0.2的场合，请使用本公司气动阀RAK RAK−W RACK RALK及RAXK

If liquid temperature equal to 30℃ (liquid ammonia), liquid temperature equal to 40℃ (R404 or R507A), for liquid temperature change ±5K, the capacity (for ammonia) will chang ±3%, the capacity (for R404A & R507A) will change ±5%

For Bipolar system at -30℃ or -40℃, calculate based on liquid temperature =-10℃

For the working situation ΔP<0.2 Bar, please choose RAK, RAK-W, RACK, RALK, or RAXK

调节阀热气管路制冷量KW

REGULATINGVALVES HOT GAS CAPACITIES KW

R-717 NH3											
冷凝温度	Dp	RSA									
℃	Bar	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
25°	0.2	32	47	74	111	197	357	492	861	1292	2214
	0.4	45	66	104	156	277	502	692	1211	1817	3114
	0.6	55	80	126	189	336	609	840	1470	2205	3780
	1	70	103	163	244	434	786	1084	1897	2846	4878
	2	100	146	230	345	613	1112	1534	2684	4026	6901
30°	0.2	34	50	79	118	210	380	524	917	1376	2358
	0.4	48	70	110	165	293	531	732	1281	1922	3294
	0.6	58	85	134	201	357	647	892	1561	2342	4014
	1	75	109	173	259	461	835	1152	2016	3024	5184
	2	106	155	244	366	651	1181	1628	2850	4275	7328
35°	0.2	36	52	83	124	221	400	552	966	1449	2484
	0.4	50	74	116	175	310	563	776	1358	2037	3492
	0.6	61	90	142	212	378	684	944	1652	2478	4248
	1	79	116	183	274	487	883	1218	2132	3198	5483
	2	112	164	258	388	689	1249	1723	3016	4523	7754
45°	0.2	39	57	91	136	242	438	604	1057	1586	2718
	0.4	56	82	129	194	344	624	860	1505	2258	3870
	0.6	68	100	158	237	421	763	1052	1841	2762	4734
	1	88	129	204	306	543	985	1358	2377	3565	6111
	2	125	182	288	432	768	1392	1920	3361	5041	8642

以上数据根据热气温度=冷凝温度30° 且蒸发温度−10° 来计算
蒸发温度在−40° 到10° 之间时变化值为±3%，可忽略不计
对于要求△p<0.2的场合，请使用本公司气动阀RAK RAK−W RACK RALK及RAXK

The above data is based on hot gas temperature = condensing temperature 30℃ evaporating temperature=-10℃
If the evaporating temperature change between -40℃ to 10℃, the above data will variate in a range of ±3%
For the working situation ΔP<0.2 Bar, please choose RAK, RAK-W, RACK, RALK, or RAXK

调节阀热气管路制冷量KW

REGULATING VALVES HOT GAS CAPACITIES KW

R404A-507A											
冷凝温度	Dp	RSA									
℃	Bar	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
25°	0.2	12	17	27	41	73	132	182	319	478	819
	0.4	17	24	38	58	102	186	256	448	672	1152
	0.6	20	30	47	70	124	225	311	544	816	1399
	1	26	38	60	90	160	291	401	702	1053	1805
	2	37	54	85	128	227	411	567	993	1490	2553
30°	0.2	13	18	29	44	78	141	194	339	509	872
	0.4	18	26	41	61	108	196	271	474	711	1219
	0.6	21	31	50	74	132	239	330	578	866	1485
	1	28	40	64	96	170	309	426	746	1119	1918
	2	39	57	90	136	241	437	603	1054	1582	2711
35°	0.2	13	19	31	46	82	148	204	357	536	919
	0.4	19	27	43	65	115	208	287	502	754	1292
	0.6	23	33	52	79	140	253	349	611	917	1572
	1	29	43	68	101	180	327	451	789	1183	2029
	2	41	61	96	143	255	462	638	1116	1674	2869
45°	0.2	15	21	34	50	89	162	223	391	587	1006
	0.4	21	30	48	72	127	231	318	557	835	1432
	0.6	25	37	58	88	156	282	389	681	1022	1752
	1	33	48	75	113	201	364	502	879	1319	2261
	2	46	68	107	160	284	515	711	1243	1865	3197

以上数据根据热气温度=冷凝温度30° 且蒸发温度−10° 来计算
蒸发温度在−40° 到10° 之间时变化值为±3%，以上制冷值可忽略不计
对于要求△p<0.2的场合，请使用本公司气动阀RAK RAK−W RACK RALK及RAXK

The above data is based on hot gas temperature = condensing temperature 30℃ evaporating temperature=-10℃
If the evaporating temperature change between -40℃ to 10℃, the above data will variate in a range of ±3%
For the working situation ΔP<0.2 Bar, please choose RAK, RAK-W, RACK, RALK, or RAXK

液体管路–泵循环管路或旁通管

LIQUID LINE-PUMPED CIRCULATION OR BY-PASS

R717 NH3										
△P	RSAL									
Bar	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
0.7	2,7	4,0	6,2	9,4	16,6	30,2	41,6	72,8	109,2	187,2
1.5	3,8	5,5	8,8	13,1	23,4	42,3	58,4	102,2	153,3	262,8
2	4,8	7,0	11,1	16,7	29,6	53,7	74,0	129,5	194,3	333,0
3	5,6	8,2	12,9	19,4	34,5	62,5	86,2	150,9	226,3	387,9

R404A										
△P	RSAL									
Bar	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
0.7	1,6	2,3	3,6	5,4	9,7	17,5	24,2	42,4	63,5	108,9
1.5	2,2	3,3	5,2	7,8	13,8	25,0	34,5	60,4	90,6	155,3
2	2,7	4,0	6,3	9,4	16,7	30,3	41,8	73,2	109,7	188,1
3	3,3	4,9	7,7	11,5	20,5	37,1	51,2	89,6	134,4	230,4

R517A										
△P	RSAL									
Bar	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
0.7	1,5	2,2	3,5	5,3	9,3	16,9	23,4	40,9	61,3	105,1
1.5	2,2	3,2	5,0	7,5	13,3	24,1	33,3	58,2	87,4	149,8
2	2,6	3,8	6,0	9,1	16,1	29,2	40,3	70,6	105,8	181,4
3	3,2	4,7	7,4	11,1	19,7	35,8	49,4	86,4	129,6	222,1

以上数据根据液体温度–10° 且蒸发温度–10° 来计算
蒸发温度在–40° 到10° 之间时，以上制冷值变化可忽略不计。

The above data is based on evaporating temperature=-10℃, liquid temperature=-10℃
If the evaporating temperature change between -40℃ to 10℃, the change of above data can be ignored

常开气动阀RAK及RAK-W系列

NORMALLY OPEN,RAK AND RAK-W TYPES

R-717 NH3								
蒸发温度	△P	RAK						
˚C	Bar	DN25	DN32	DN40	DN50	DN65	DN80	DN100
5°	0.02	32	50	101	135	252	471	673
	0.04	45	71	143	190	356	665	951
	0.07	60	94	188	251	470	878	1255
	0.15	87	138	276	368	690	1287	1839
0°	0.02	30	47	94	125	234	436	623
	0.04	42	66	132	176	330	616	881
	0.07	55	87	174	232	434	811	1158
	0.15	80	127	254	339	635	1186	1694
-10°	0.02	25	40	79	105	198	369	527
	0.04	35	56	111	149	279	520	743
	0.07	47	73	147	196	367	685	979
	0.15	67	106	212	283	530	989	1413
-20°	0.02	21	33	66	88	165	307	439
	0.04	29	46	93	124	232	433	618
	0.07	39	61	122	163	305	569	813
	0.15	55	86	173	230	431	805	1151
-30°	0.02	17	27	54	72	134	251	358
	0.04	24	38	76	101	189	353	504
	0.07	31	49	98	131	245	457	653
	0.15	45	70	141	188	352	656	938
-40°	0.02	13	21	42	57	106	198	283
	0.04	19	30	59	79	148	276	395
	0.07	24	38	77	102	192	358	512
	0.15	33	52	105	140	262	489	699
-50°	0.02	10	16	33	44	82	153	218
	0.04	14	23	45	60	113	211	301
	0.07	18	29	58	77	144	269	384
	0.15	24	38	76	101	190	354	506

常开气动阀RAK及RAK-W系列

NORMALLY OPEN,RAK AND RAK-W TYPES

R-404A								
蒸发温度	△P	RAK						
˚C	Bar	DN25	DN32	DN40	DN50	DN65	DN80	DN100
5°	0.02	11	17	35	135	87	163	232
	0.04	15	26	48	66	115	172	295
	0.07	19	35	63	87	151	227	390
	0.15	29	5	92	127	222	333	571
0°	0.02	10	17	31	42	74	111	191
	0.04	13	24	43	60	105	157	269
	0.07	18	32	57	79	138	207	354
	0.15	26	46	83	115	202	302	518
-10°	0.02	8	14	25	35	61	91	157
	0.04	11	20	36	49	86	129	221
	0.07	15	26	47	65	113	170	291
	0.15	21	37	68	93	163	245	420
-20°	0.02	6	11	20	28	49	74	126
	0.04	9	16	29	40	69	104	178
	0.07	12	21	38	52	91	137	234
	0.15	17	29	53	74	129	193	331
-30°	0.02	5	9	16	22	39	58	100
	0.04	7	12	23	31	55	82	141
	0.07	9	16	29	40	71	106	182
	0.15	13	23	42	58	102	153	262
-40°	0.02	4	7	12	17	30	45	77
	0.04	5	9	17	24	41	62	107
	0.07	7	12	22	31	54	81	138
	0.15	9	17	30	42	73	110	189
-50°	0.02	3	5	9	13	23	34	58
	0.04	4	7	13	18	31	47	80
	0.07	3	5	9	12	21	32	54
	0.15	7	12	22	30	52	78	134

常开气动阀RAK及RAK-W系列

NORMALLY OPEN,RAK AND RAK-W TYPES

R-507A								
蒸发温度	△P	RAK						
˚C	Bar	DN25	DN32	DN40	DN50	DN65	DN80	DN100
5°	0.02	11	18	36	48	90	167	239
	0.04	15	27	49	67	118	177	304
	0.07	20	36	65	89	156	234	401
	0.15	29	52	95	131	228	343	588
0°	0.02	10	17	32	44	76	115	196
	0.04	14	25	45	62	108	162	277
	0.07	18	32	59	81	142	213	365
	0.15	27	47	86	119	207	311	534
-10°	0.02	8	15	26	36	64	95	164
	0.04	11	19	35	48	85	127	218
	0.07	15	27	49	68	118	177	304
	0.15	22	39	71	97	171	256	439
-20°	0.02	7	12	22	30	52	78	134
	0.04	9	17	30	42	74	110	189
	0.07	12	22	40	55	97	145	249
	0.15	18	31	57	78	137	205	352
-30°	0.02	5	9	17	24	41	62	106
	0.04	7	13	24	33	58	87	150
	0.07	10	17	31	43	75	113	194
	0.15	14	25	45	62	108	162	278
-40°	0.02	4	7	13	18	31	46	79
	0.04	6	10	18	24	43	64	110
	0.07	7	13	23	32	56	83	143
	0.15	10	17	31	43	76	114	195
-50°	0.02	3	5	9	13	23	34	59
	0.04	4	7	13	18	32	47	81
	0.07	3	5	9	12	21	32	55
	0.15	7	12	22	30	53	80	137

气动阀吸气制冷量KW
Gas powered valves suction vapour capacities kw

常闭气动阀RACK,RALK及RAXK系列
NORMALLY CLOSED RACK,RALK AND RAXK TYPES

R-717 NH3								
蒸发温度	△P	RACK RALK RAXK						
˚C	Bar	DN25	DN32	DN40	DN50	DN65	DN80	DN100
5°	0.02	30	54	98	135	235	353	606
	0.04	43	76	138	190	333	499	856
	0.07	56	100	182	251	439	659	1129
	0.15	83	147	267	368	644	965	1655
0°	0.02	28	50	90	125	218	327	561
	0.04	40	70	128	176	308	462	793
	0.07	52	93	168	232	405	608	1043
	0.15	76	135	246	339	593	889	1524
-10°	0.02	24	42	76	105	185	277	474
	0.04	33	59	108	149	260	390	669
	0.07	44	78	142	196	343	514	881
	0.15	64	113	205	283	495	742	1272
-20°	0.02	20	35	64	88	154	230	395
	0.04	28	49	90	124	216	325	556
	0.07	37	65	118	163	285	427	732
	0.15	52	92	167	230	403	604	1036
-30°	0.02	16	29	52	72	125	188	323
	0.04	23	40	73	101	176	264	453
	0.07	29	52	95	131	229	343	588
	0.15	42	75	136	188	328	492	844
-40°	0.02	13	23	41	57	99	149	255
	0.04	18	32	57	79	138	207	355
	0.07	23	41	74	102	179	269	460
	0.15	31	56	101	140	245	367	629
-50°	0.02	10	17	32	44	76	115	196
	0.04	14	24	44	60	105	158	271
	0.07	17	31	56	77	135	202	346
	0.15	23	41	73	101	177	266	456

常闭气动阀RACK,RALK及RAXK系列

NORMALLY CLOSED RACK,RALK AND RAXK TYPES

R-404A								
蒸发温度	△P	RACK RALK RAXK						
˚C	Bar	DN25	DN32	DN40	DN50	DN65	DN80	DN100
5°	0.02	10	19	34	46	81	122	209
	0.04	15	26	48	66	115	172	295
	0.07	19	35	63	87	151	227	390
	0.15	29	51	92	127	222	333	571
0°	0.02	10	17	31	42	74	111	191
	0.04	13	24	43	60	105	157	269
	0.07	18	32	57	79	138	207	354
	0.15	26	46	83	115	202	302	518
-10°	0.02	8	14	25	35	61	91	157
	0.04	11	20	36	49	86	129	221
	0.07	15	26	47	65	113	170	291
	0.15	21	37	68	93	163	245	420
-20°	0.02	6	11	20	28	49	74	126
	0.04	9	16	29	40	69	104	178
	0.07	12	21	38	52	91	137	234
	0.15	17	29	53	74	129	193	331
-30°	0.02	5	9	16	22	39	58	100
	0.04	7	12	23	31	55	82	141
	0.07	9	16	29	40	71	106	182
	0.15	13	23	42	58	102	153	262
-40°	0.02	4	7	12	17	30	45	77
	0.04	5	9	17	24	41	62	107
	0.07	7	12	22	31	54	81	138
	0.15	9	17	30	42	73	110	189
-50°	0.02	3	5	9	13	23	34	58
	0.04	4	7	13	18	31	47	80
	0.07	3	5	9	12	21	32	54
	0.15	7	12	22	30	52	78	134

气动阀吸气制冷量KW
Gas powered valves suction vapour capacities kw

常闭气动阀RACK,RALK及RAXK系列
NORMALLY CLOSED RACK,RALK AND RAXK TYPES

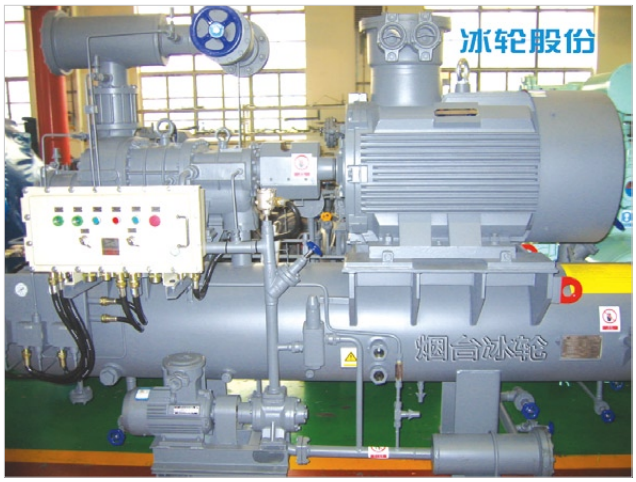
R-507A								
蒸发温度	△P	RACK,RALK RAXK						
˚C	Bar	DN25	DN32	DN40	DN50	DN65	DN80	DN100
5°	0.02	11	19	35	48	84	125	215
	0.04	15	27	49	67	118	177	304
	0.07	20	36	65	89	156	234	401
	0.15	29	52	95	131	228	343	588
0°	0.02	10	17	32	44	76	115	196
	0.04	14	25	45	62	108	162	277
	0.07	18	32	59	81	142	213	365
	0.15	27	47	86	119	207	311	534
-10°	0.02	8	15	26	36	64	95	164
	0.04	11	19	35	48	85	127	218
	0.07	15	27	49	68	118	177	304
	0.15	22	39	71	97	171	256	439
-20°	0.02	7	12	22	30	52	78	134
	0.04	9	17	30	42	74	110	189
	0.07	12	22	40	55	97	145	249
	0.15	18	31	57	78	137	205	352
-30°	0.02	5	9	17	24	41	62	106
	0.04	7	13	24	33	58	87	150
	0.07	10	17	31	43	75	113	194
	0.15	14	25	45	62	108	162	278
-40°	0.02	4	7	13	18	31	46	79
	0.04	6	10	18	24	43	64	110
	0.07	7	13	23	32	56	83	143
	0.15	10	17	31	43	76	114	195
-50°	0.02	3	5	9	13	23	34	59
	0.04	4	7	13	18	32	47	81
	0.07	3	5	9	12	21	32	55
	0.15	7	12	22	30	53	80	137

电磁阀推荐类型
Recommended solenoid valves

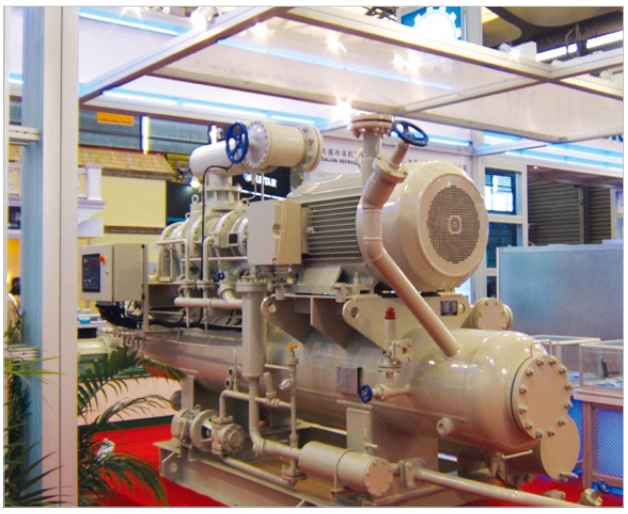
应用 APPLICATION	应用工况 SERVICE CONDITIONS	电磁阀 SOLENOID AMLES										
		4mm	10mm	15mm	20mm	25mm	32mm	40mm	50mm	65mm	80mm	100mm
		3/16”	3/8”	1/2”	3/4”	1”	1 1/4”	1 1/2”	2”	2 1/2”	3”	4”
液体管路 LIQUID LINE	高压或桶泵循环Ta ≥−45℃ HP OR RECIRCULATION,ABOVE-45℃		VMP	VMP	AML VMP	AML AEVRA	AML AEVRA	AML AEVRA	AML	AML	AML	AML
吸气管路	T≥−20℃		VMP	VMP	AML VMP	AML AEVRA	AML AEVRA	AML AEVRA	AML	AML	AML	AML
	T≥−50℃ 气动阀 常开 GAS POWERED VALVES N OPEN				RAK	RAK AEVRA	RAK AEVRA	RAK AEVRA	RAK	RAK	RAK	RAK
	T≥−50℃ 气动阀 常闭 GAS POWERED VALVES N CLOSE				RACK RALK	RACK RALK	RACK RAXK RALK	RACK RAXK RALK	RACK RAXK RALK	RACK RAXK RALK	RACK RAXK RALK	RACK RAXK RALK
热气以及化霜管路 HOT GAS DEFROST	T<−105℃		VMP	VMP	AML	AML	AML	AML	AML	AML	AML	AML

以上推荐基于管路内保持清洁，没有水分以及各种杂质。电磁阀必须工作于没有高粘度的油品，而且高于−20℃的情况下所有电磁阀入口处必须安装过滤器，并且在阀门下游安装止回阀

The recommendation above should be based on the clean line, no water and other impurities. The medium for solenoid valves cannot be oil with high viscosity. Before inlet of solenoid valves, must install filter if the working temperature higher than -20℃, and after solenoid valves, should install check valves.

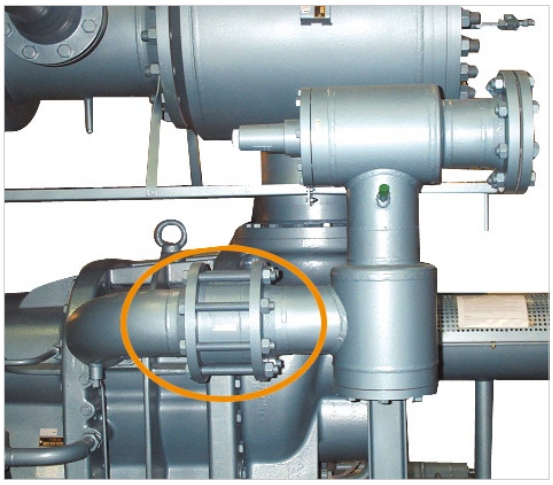

冰轮股份
烟台冰轮


烟台冰轮




大连冷冻机股份有限公司
DALIAN REFRIGERATION CO.,LTD.
JZSLG20/16CS单机双级螺杆制冷压缩机组


郑州艾斯诺制冷设备有限公司
ZhengZhou Ice Snow Refrigeration Equipment Co., Ltd

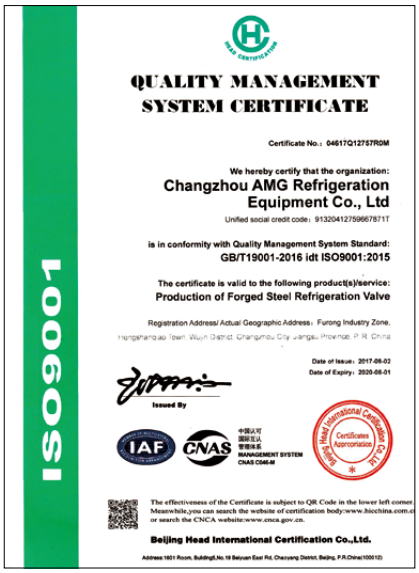



KE185螺杆膨胀发电站


CERTIFICATE
The Certification Body of
TÜV SÜD Industrie Service GmbH,
a Notified Body of the Pressure Equipment Directive (PED),
certifies that
Changzhou AMG Refrigeration Equipment Co., Ltd.
FuRong Town Industry Zone,
213118, Changzhou City, Jiangsu Province, P.R. China
implemented, operates and maintains a quality assurance system as described in the Pressure Equipment Directive 2014/68/EU Annex III, Module H
for the scope of
Design, manufacturing and sales of steel valves
stop valve (max. PN52, max. DN150)
stop and control valve (max. PN52, max. DN150)
check valve (max. PN52, max. DN150)
stop and check valve (max. PN52, max. DN150)
filter (max. PN52, DN150)
The audit with the report number Q-CHN-PED-5010241909-001-17 proves that the quality assurance system fulfils the PED requirements.
The manufacturer is authorized to provide the pressure equipment produced within the scope of the assessed quality assurance system with the following Notified Body Number:
CE 0036
Certificate No.: DGR-0036-QS-1155-17
Filderstadt, September 19th, 2017
TÜV SÜD Industrie Service GmbH
Notified Body No. 0036
TÜV SÜD Industry Services · PED-QA-Certification Body · Germany
ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ СЕРТИФИКАТ ◆ 證書 ◆ CERTIFICAT


中华人民共和国
特种设备制造许可证
Manufacture License of Special Equipment
People's Republic of China
（压力管道元件）
编号：TS2732159-2021
单位名称：常州埃姆基冷冻设备有限公司
注册地址：江苏省常州市武进区横山桥镇芙蓉工业园区
经审查，获准从事下列压力管道元件的制造：
类别 品种 级别 范围 备注
压力管道阀门 金属阀门 B1 B2 1、截止阀，止回阀：PN≤6.3MPa 且 50mm≤DN≤150mm；PN≤2.5MPa 且 200mm≤DN≤500mm；2、节流阀：PN≤6.3MPa 且 50mm≤DN≤200mm。 无损检测分包。
审批机关：江苏省质量技术监督局
有效期至：2021 年 02 月 27 日
发证日期：2017 年 02 月 28 日
国家质量监督检验检疫总局制


CERTIFICAT DE CONFORMITÉ
CERTIFICATE OF COMPLIANCE
NTC20120809/CE
Aug. 09th, 2012 –Aug. 08th, 2015
Changzhou AMG Refrigeration Equipment Co., Ltd.
Furong Town Industrial park, Changzhou City, Jiangsu Province, China
Same as above
Industrial Valves
RVV/T,RRV/T,VCV/T,RCV/T
EN 746-5:2002
Size : DN6 - DN300
Working Pressure : 2.5 MPa
Working Temperature: -40°C to +150°C
Gas medium:Ammonia and Fluorine,and so on
Material of tube: 20# steel or 20mn steel
Report No.: NTC20120806-PED
The product(s) were tested and evaluated according to the mentioned standard(s) and technical specification, we found that the product(s) satisfied the requirements of the above standard(s) and technical specification, and fulfils the requirements of the following directives: 97/23/EC.
The CE marking as shown left can be used under the responsibility of the holder, after completion of an EC Declaration of Conformity and compliance with all relevant EC directives.
This certificate is only valid for the product described. The holder must inform NTC of any plan for substantial changes in the design, construction of the products in order to examine whether this Certificate remain valid.
MARK KENDAL
Head of Certification body
CHCS Test Limited, the member of Réseau de Certification Technique
www.fnantc.com info@fnantc.com


QUALITY MANAGEMENT SYSTEM CERTIFICATE
Certificate No.: 04617Q12757R0M
We hereby certify that the organization:
Changzhou AMG Refrigeration Equipment Co., Ltd
Unified social credit code: 91320412759667871T
is in conformity with Quality Management System Standard:
GB/T19001-2016 idt ISO9001:2015
The certificate is valid to the following product(s)/service:
Production of Forged Steel Refrigeration Valve
Registration Address/ Actual Geographic Address: Furong Industry Zone, Hongshanqiao Town Wujin District Changzhou City Jiangsu Province P.R China
Date of Issue: 2017-08-02
Date of Expiry: 2020-08-01
Issued By
IAF CNAS
Beijing Head International Certification Co.,Ltd.
ISO9001

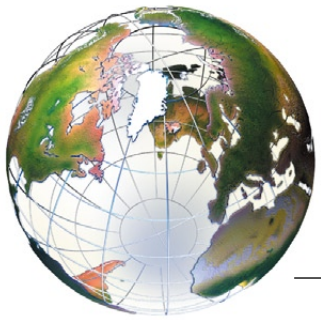

编号 A2606.1
国家知识产权局 主办
中国国际专利与名牌博览会
CHINA INTERNATIONAL PATENT & BRAND EXPO
金奖
获奖项目
钢制制冷阀门
获奖单位
常州市埃姆基冷冻设备有限公司
2004.5


IQAC
美国国际品质认证委员会
The US Council of International Quality Authentication
高品质产品推荐证书
Recommendation For High-quality Products
兹推荐
（中国江苏）常州埃姆基冷冻设备有限公司生产的
"AMG" 系列制冷阀门为高品质产品。
This is to recommend "AMG" Series of Refrigeration Valve made by Changzhou AMG Refrigeration Equipment Co., Ltd. (Jiangsu, China) as high-quality products.
颁证日期：2004.05
证书编号：No.A0417
美国国际品质认证委员会
The US Council of international Quality Authentication
Edward Toai
Director


质量管理体系认证证书
证书编号：04617Q12757R0M
兹证明：
常州埃姆基冷冻设备有限公司
统一社会信用代码：91320412759667871T
质量管理体系符合：
GB/T19001-2016 idt ISO9001:2015 标准
证书覆盖范围：
钢制制冷阀门的生产
注册地址/实际地理地址：江苏省常州市武进区横山桥镇芙蓉工业园区
颁证日期：2017-08-02
有效期至：2020-08-01
IAF CNAS
北京海德国际认证有限公司
ISO9001


证书号第2496696号
外观设计专利证书
外观设计名称：手轮型钢制制冷阀门(直通式)
设 计 人：许炎章
专 利 号：ZL 2013 3 0027774.X
专利申请日：2013年01月30日
专 利 权 人：许炎章
授权公告日：2013年07月03日
局长


证书号第3052118号
实用新型专利证书
实用新型名称：钢制制冷阀门
发 明 人：许炎章
专 利 号：ZL 2013 2 0029447.2
专利申请日：2013年01月18日
专 利 权 人：常州埃姆基冷冻设备有限公司
授权公告日：2013年07月24日
局长
2013年07月24日



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Internationally fashionable character　Enriched natural quality

AMG

Refrigeration Valve

2019.1 版

Changzhou AMG
Refrigeration Equipment Co.,Ltd.
常州埃姆基冷冻设备有限公司

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