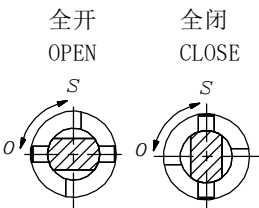


技术要求 Technical Requirements

- 最大工作压力: 4.9MPa;
Max. Operation Pressure: 4.9MPa;
- 适用于常用的HCFC、HFC、HFO等制冷剂, 例如R32、R134a、R404A、R410A、R448A、R449A、R450A、R452A、R513a、R507A、R454A/B/C、R455A、R1233zd(E)、R1234ze(E)、R1234yf、R290;
Applicable for all common HCFC HFC、HFO refrigerants such as R32、R134a、R404A、R410A、R448A、R449A、R450A、R452A、R513a、R507A、R454A/B/C、R455A、R1233zd(E)、R1234ze(E)、R1234yf、R290;
- 冷媒温度: -40℃ ~ +120℃ (>+120℃ ~ +150℃ 短期运行);
Medium temperature: -40℃ ~ +120℃ (>+120℃ ~ +150℃ for short term use);
- 阀关闭时气密性:
正向内漏: 加压1.0MPa时, 泄漏量应 < 2.83 克/年;
反向内漏: 加压1.0MPa时, 泄漏量应 < 2.83 克/年;
Air tightness when valve is closed:
Internal leakage in the positive direction: Should be less than 2.83 g/year (ΔP=1.0MPa, Air);
Internal leakage in the opposite direction: Should be less than 2.83 g/year (ΔP=1.0MPa, Air);
- 供货状态
1) 球阀全开;
2) 阀帽手紧;
3) 充注阀帽手紧; (带充注产品适用)
4) 气门芯按 0.5 ± 0.05N.m 上紧; (带充注产品适用)
Delivery status:
1) Valve shall be in open position;
2) Valve cap shall be tightened manually;
3) The cap of access fitting shall be tightened manually; (Only valves with access fitting are applicable)
4) Valve core shall be torqued at 0.5 ± 0.05N·m; (Only valves with access fitting are applicable)
- 采用阀杆旋转1/4圈的方式打开或者关闭阀;
Turn the valve stem 1/4 turn to open or close the valve.



- 客户配管焊接时, 需对阀主体进行冷却保护, 确保温度在120℃以下, 防止密封件受损而产生泄漏;
During pipe welding, the valve body is required to be cooling protected to ensure that the temperature is below 120 °C to prevent leakage due to damage to the seal;
 - 阀帽和气门芯的密封扭矩值, 阀杆操作扭矩:
Requirements for sealing torque values for valve cap and valve core:
- | Connection | Seal torque value of valve cap | Seal torque value of valve core |
|-------------|--------------------------------|---------------------------------|
| 1/4" ~ 1/2" | (22.5 ± 2.5) N·m | (0.5 ± 0.05) N·m |
- 储存和使用过程中, 球阀需处于全开或者全关状态, 严禁处于半开状态;
During storage and use, the spool ball should be in a fully open or fully closed state, and it is strictly prohibited to be in a half-open state;
 - 球阀安装在压缩机附近时, 需重点关注管路设计及球阀固定, 并评估振动应力, 防止因振动导致球阀接管断裂等失效。
When the ball valve is installed near the compressor, pay attention to the pipeline design and ball valve fixing, and evaluate the vibration stress to prevent the failure of the ball valve pipe due to vibration.

USING CLASS B				
VARIATION ALLOWABLE DIMENSION				
DIVISION	CLASS A	CLASS B	CLASS C	
0.5	± 0.2	± 0.6	± 0.9	
6	± 0.4	± 1.0	± 1.6	
30	± 0.7	± 1.8	± 2.8	
120	± 1.0	± 2.5	± 4.0	
315	± 1.8	± 4.5	± 7.0	
1000	± 3.0	± 8.0	± 11	

Code 产品系列	Type 型号	Connection 连接管		L [mm]	A [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	H [mm]	H1 [mm]	M [mm]	阀帽去除示意图 SKETCH WITHOUT THE CAP
		[inch]	[mm]										
SBV6	SBV02-020	-	6	132	Φ6.1 ^{+0.2} ₀	10	68	/	16	14			
	SBV02-320							31					
	SBV02-019	1/4	-					/					
	SBV02-319							31					
SBV10	SBV03-020	-	10	132	Φ10.1 ^{+0.2} ₀	10	68	/	16	14	44	M4 × 0.7	
	SBV03-320							31					
	SBV03-019	3/8	-					/					
	SBV03-319							31					
SBV12	SBV04-020	-	12	160	Φ12.1 ^{+0.2} ₀		13	/	16	14			
	SBV04-320							42.5					
	SBV04-019	1/2	-					/					
	SBV04-319							42.5					

球阀 BALL VALVE				图样标记 Mark		重量 Weight	比例 Ratio
				B			
				共 1 张 Total 1		第 1 张 Page 1	
SBV系列标准品认可图纸通用版				浙江三花商用制冷有限公司 Zhejiang SANHUA Commercial Refrigeration Controls Co., Ltd			
设计 Designer	梁丽烂	标准化 Standard	梁丽烂	校对 Checker	张婉婷	审定 Order	汪昌东
审核 Verifier	王大兴 (批准 Approval)			工艺 Processor	余新林	日期 Date	2024-07-25