

SG型 视液镜
Model SG Sight Glass



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- Both Model SGN sight glass and Model SGS sight glass are used on the liquid piping of the refrigeration and air conditioning unit to indicate the flow condition of the refrigerant, water cut of the refrigerant and lubricant oil flow condition of the oil return piping on the oil separator.
- Model SGN sight glass and Model SGS sight glass are equipped with one moisture indicator, which will change color to indicate the water cut in the refrigerant.
- Model SGR sight glass is used to indicate the level of the refrigerant in the liquid drum and the lubricant oil level in the compressor crankcase.
- The modified PTFE sealing is used in both Model SGN sight glass and Model SGR sight glass, which is applicable to various refrigerants and oils with perfect sealing performance.
- The structure of both Model SGN sight glass and Model SGR sight glass is an explosion-proof press fit and the viewing glass is clear and safety.
- Model SGS sight glass is an independent body structure with conventional sintered glass and O-ring seal.

Model SGN and Model SGS

- Be applicable to HCFC/HFC refrigerants.
- Indicate high water cut in system if any.
- Indicate no overcooling in refrigerant liquid.
- Indicate insufficient charging of refrigerant if any.
- Both welded and threaded connections are available.

Model SGR

- Be applicable to HCFC/HFC refrigerants.
- Indicate the liquid level in the liquid drum.
- Indicate the oil level in the compressor crankcase.
- NPT threaded connection.

技术参数 Technical Parameters

适用制冷剂 Applicable Refrigerant	HCFC and HFC
适用介质温度 Applicable Medium Temperature	-40℃ ~ +80℃
最大工作压力 Max. Operating Pressure	4.5MPa
最大耐压压力 Max. Allowable Pressure	6.8MPa
制冷剂年泄漏量 Yearly Leakage of Refrigerant	≤2g R22/a

注意： 全封闭压缩机的允许含水量一般在30~75ppm之间，而其他压缩机则略高。为使系统得到有效保护，必须谨慎地监视指示器，若颜色变为黄色，则必须更换干燥器。

含水量与颜色的关系 Correlation between Water Cut and Color

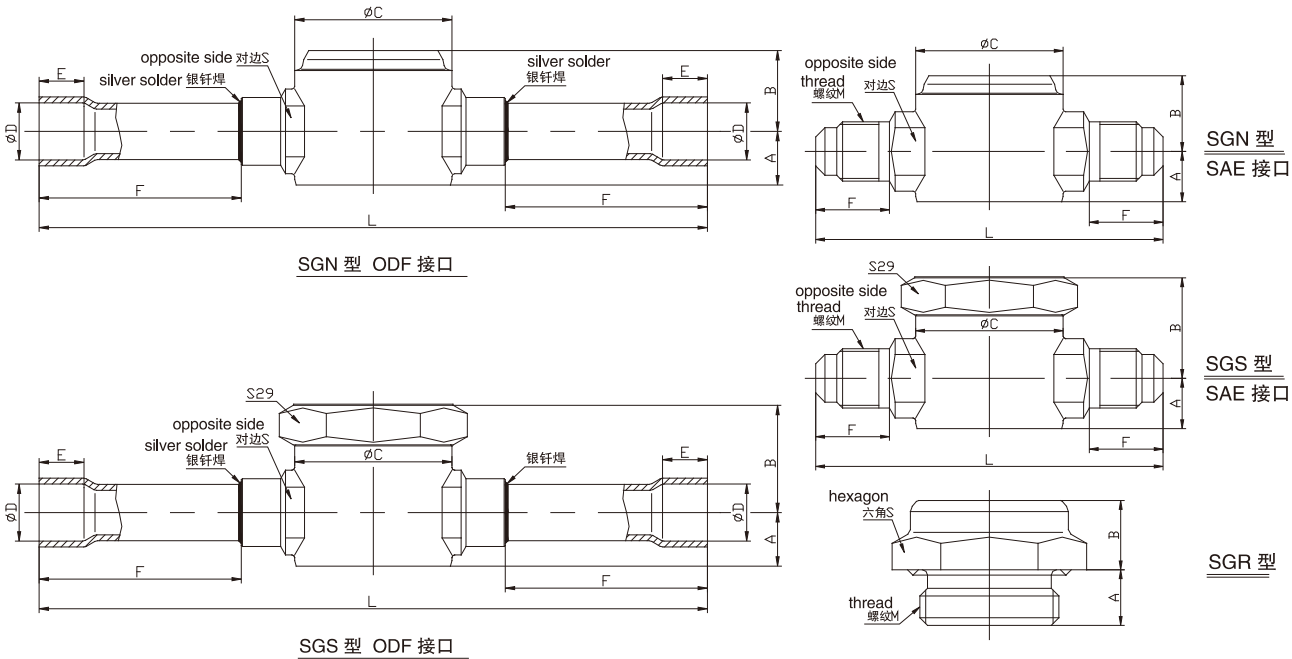
	Water Cut (ppm) 含水量 (百万分之一)					
	25℃			43℃		
	绿色	中间颜色	黄色	绿色	中间颜色	黄色
	Green/DRY	Medium Color	Yellow/WET	Green/DRY	Medium Color	Yellow/WET
R22/R502	< 30	30 ~ 120	> 120	< 50	50 ~ 200	> 200
HFC-134a	< 30	30 ~ 100	> 100	< 45	45 ~ 170	> 170
R404a	< 20	20 ~ 70	> 70	< 25	25 ~ 100	> 100
R407c	< 30	30 ~ 140	> 140	< 60	60 ~ 225	> 225
R507	< 15	15 ~ 60	> 60	< 30	30 ~ 110	> 110

(Note: For the fully enclosed compressor, generally the allowable water cut is in a range of 30 ~ 75 ppm, but for other types of compressor, the water cut will be higher slightly. For an effective protection, it is necessary to monitor the indicator carefully and replace the drier immediately if the color is changed into yellow.)

选型 Specification

焊口型号 Model of Welded Connection		规格 Size	螺口型号 Model of Threaded Connection		规格 Size
SGN-1/4 ODF	SGS-1/4 ODF	1/4 (Φ6)	SGN-1/4 SAE	SGS-1/4 SAE	1/4 (Φ6)
SGN-3/8 ODF	SGS-3/8 ODF	3/8 (Φ10)	SGN-3/8 SAE	SGS-3/8 SAE	3/8 (Φ10)
SGN-1/2 ODF	SGS-1/2 ODF	1/2 (Φ12)	SGN-1/2 SAE	SGS-1/2 SAE	1/2 (Φ12)
SGN-5/8 ODF	SGS-5/8 ODF	5/8 (Φ16)	SGN-5/8 SAE	SGS-5/8 SAE	5/8 (Φ16)
SGN-3/4 ODF	SGS-3/4 ODF	3/4 (Φ19)	SGN-3/4 SAE	SGS-3/4 SAE	3/4 (Φ19)
SGN-7/8 ODF	SGS-7/8 ODF	7/8 (Φ22)	SGR-3/4NPT		3/4NPT
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结构 Structure



型 号Model		A	B	Φ C	Φ D	E	F	L	S	螺纹Thread M	重量Weight(g)		
											SGN型	SGS型	
SGN/SGS-1/4	ODF	9.5	14.5	28	6.5	7	27	102	14	——	105	125	
	SAE				——	——	14	64		7/16-20UNF	145	145	
SGN/SGS-3/8	ODF	12.5	16.5		10.1	8	36	119		——	110	155	
	SAE				——	——	17	70	5/8-18UNF	215	195		
SGN/SGS-1/2	ODF	13	18		12.8	10	46	146	19	——	170	150	
	SAE				——	——	19	78		3/4-16UNF	240	210	
SGN/SGS-5/8	ODF	15	20		31.5	16.1	14	46		152	22	——	190
	SAE			——		——	20	78	7/8-14UNF	350		300	
SGN/SGS-3/4	ODF	18	23	19.1		16	51	167	24	——		270	230
	SAE			——		——	23	94		29	1-1/16-14UNS	545	440
SGN/SGS-7/8	ODF	16.5	21.5	22.3		17	54	173		27	——	315	290
SGR-3/4NPT	NPT	10.5	13	—		—	—	—	—	32	3/4NPT	90	
SGR-G3/4	G										G3/4	70	