SIGHT GLASSES



■ Introduction

A NSG series sight glass is a device used to observe the flow of liquid within a pipeline. It is widely used in various refrigeration systems, compressors, and other mechanical equipment. The moisture indicator integrated in the sight glass provides users with an accurate method to determine the quality and moisture content of the refrigerant within the system piping.

Through the wide-angle viewing window, the status of system's refrigerant can be visually monitored. Therefore, it is easy to see the bubbles or flash gas of the refrigerant in the system, indicating whether the refrigerant dosage is appropriate and whether it needs to be replenished. The humidity indicator element at the center position of the sight glass is highly sensitive to moisture levels and gradually changes color as the moisture content in the system changes. The sight glass is made using a special glass and copper body high-temperature sintering process, featuring high strength and high transparency of the glass.

■ Technical Parameters

- Medium temperature: -20~+80°C
- Maximum working temperature: +80°C
- Maximum working pressure: 4.5MPa
- Applicable medium: R134a、R22、R407C、R404A、R507、R410A

■ Moisture Color Change Parameter (Unit: P.P.M)

Refrigerant		R22			R134a		
Refrigerant ℃		24	38	52	24	38	52
Moisture Value ppm	Blue (Dry)	＜ 30	＜ 45	＜ 60	＜ 30	＜ 45	＜ 60
	Light Blue(Warning)	30 ~ 120	45 ~ 180	60 ~ 240	30 ~ 100	45 ~ 160	60 ~ 220
	Light Red(Wet)	＞ 120	＞ 160	＞ 240	＞ 100	＞ 160	＞ 220

■ Type & data

Connection form	Model	Connection size		Dimension （mm）	
		in.	mm	L	H
ODF	NSGWW6		6	120	35
	NSGWW1/4	1/4"		120	35
	NSGWW10		10	120	35
	NSGWW3/8	3/8"		120	35
	NSGWW12		12	120	35
	NSGWW1/2	1/2"		120	35
	NSGWW16		16	140	40
	NSGWW5/8	5/8"		140	40
	NSGWW19		19	147	40
	NSGWW3/4	3/4"		147	40
	NSGWW22		22	160	40
	NSGWW7/8	7/8"		160	40
	NSGWW28		28	170	40
	NSGWW1 1/8	1 1/8"		170	40
SAE	NSGSS6		6	80	35
	NSGSS1/4	1/4"		80	35
	NSGSS10		10	95	35
	NSGSS3/8	3/8"		95	35
	NSGSS12		12	95	35
	NSGSS1/2	1/2"		95	35
	NSGSS16		16	95	35
	NSGSS5/8	5/8"		95	35

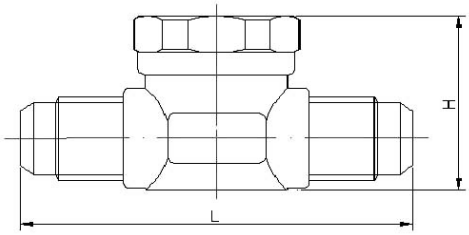
■ Model naming method

NSG □□ □

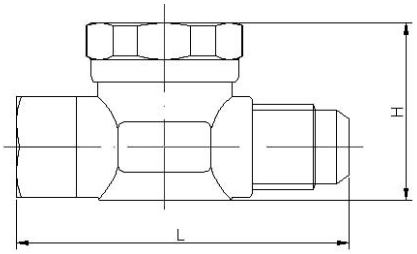
- □ — Arabic numerals, take over the outer diameter
- □□ — Connection method, English letters:
  - WW--Welded joints at both ends
  - SS--Externally threaded flared tube connection
  - SF--One end male threaded tube connection, one end internal thread
  - WD--Solder directly to the system
- NSG — SIGHT GLASSES

※ SF and WD are special models, if you need， Pls contact Shanghai Fengshen

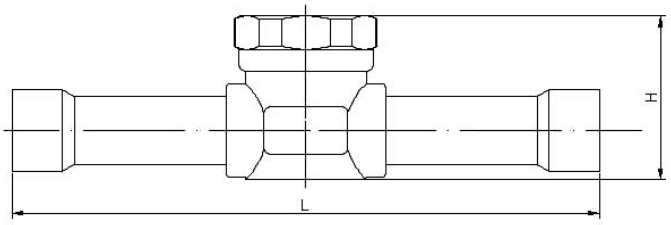
Dimensions



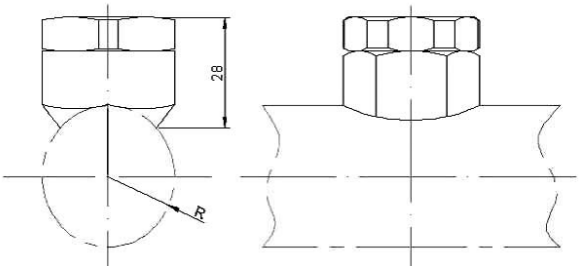
NSGSS series (Flare x Flare)



NSGSF series (Female flare x Male flare)



NSGWW series (ODF X ODF)



NSGWD series (straight thru configuration)