

SPORLAN - MOISTURE AND LIQUID INDICATORS

See-All Moisture and Liquid Indicators offers these 8 outstanding benefits

1. The **See•All Moisture and Liquid Indicator** provides a true moisture indication for Refrigerants 12, 134a, 22, 404A, 407C, 410A, 502 and 507. The See All is also suitable for Refrigerants 401A & B, 402A & B, 408A and 409A. The dark green indicates dry and a bright yellow indicates wet. The one indicator avoids the confusion found in models with two elements. You **cannot** pick the wrong element when checking the moisture content of the system.

2. **RELIABLE and ACCURATELY CALIBRATED COLOR CHANGE POINTS.** The **See•All Moisture and Liquid Indicator** is accurately calibrated in parts per million of moisture for each refrigerant. All moisture indicators change color on the basis of relative saturation of the refrigerant. Therefore, liquid line temperature must be considered if an accurate calibration is to be obtained. A color chart is part of the label, for easy comparison.

3. **COLOR CHANGES ARE EASILY DISTINGUISHED and REVERSIBLE.** The indicator's color differs so widely between WET and DRY conditions that there is no possibility of confusion between the two. Colors will reverse as often as moisture concentration in the system changes.

4. **LARGE FULL VIEW SIGHT GLASS.** The **See•All Moisture and Liquid Indicator** has an extra large crystal clear sight glass for viewing the refrigerant. Bubbles indicate a shortage of refrigerant or a restriction in the liquid line.

5. **INDICATOR PROTECTED from DISCOLORATION and DIRT.** The indicator is protected by a filter pad and screen. This prevents washing of the indicator by the refrigerant and protects it from system contamination and turbulence.

6. **REPLACEABLE INDICATOR ELEMENT.** The color indicator paper can be changed on the new fused glass models without removing the **See•All** from the line. Replacement is thru the bottom (see SA-14SU below). Request the K-SA-4 kit.

7. **DISASSEMBLY OF THE SMALLER SIZES NOT REQUIRED.** The extended steel fittings on solder models in the smaller sizes make it unnecessary to disassemble for installation since steel conducts only one eighth as much heat as copper.

8. **A DOUBLE DUTY PLASTIC CAP** is supplied to keep the glass free from dust, dirt, and grease. It also permits the service engineer to use his own discretion concerning instructions to his customers on observing the **See•All Moisture and Liquid Indicator**.



Specifications

CONNECTION SIZES Inches	MALE FLARE		FEMALE & MALE FLARE		MALE FLARE X SWIVEL NUT		SWIVEL NUT X SWIVEL NUT		FEMALE FLARE X SWIVEL NUT		SWIVEL NUT X ODF SOLDER		ODF SOLDER	
	Part No	Overall Length Inches	Part No	Overall Length Inches	Part No	Overall Length Inches	Part No	Overall Length Inches	Part No	Overall Length Inches	Part No	Overall Length Inches	Part No	Overall Length Inches
1/4	SA-12	2.87	SA-12FM	2.56	—	—	—	—	—	—	—	—	SA-12S	4.62
3/8	SA-13	3.37	SA-13FM	2.97	SA-13U	3.64	SA-13UU	3.95	SA-13UU	3.19	SA-13SU	4.19	SA-13S	
1/2	SA-14	3.81	SA-14FM	3.44	SA-14U	4.13	SA-14UU	4.50	SA-14UU	3.75	SA-14SU	4.62	SA-14S	4.87
5/8	SA-15	4.13	—	—	SA-15U	4.44	SA-15UU	4.75	—	—	SA-15SU	4.89	SA-15S	
7/8	—	—	—	—	—	—	—	—	—	—	—	—	SA-17S	6.31
1-1/8	—	—	—	—	—	—	—	—	—	—	—	—	SA-19S	
1-3/8	—	—	—	—	—	—	—	—	—	—	—	—	SA-211	7.97
1-5/8	—	—	—	—	—	—	—	—	—	—	—	—	SA-213	
2-1/8	—	—	—	—	—	—	—	—	—	—	—	—	SA-217	

Listed by Underwriters' Laboratories, Inc. - Guide SEYW - File No. SA3182
 Maximum Rated Pressure - 650 psi. Overall width is: 1.31 in. for 1/4 in. and 3/8 in. sizes, 1.58 in. for 1/2 in. and 5/8 in. sizes, and 1.38 in. for 7/8 in. and 1-1/8 in. sizes. Most solder connections can be used as male fittings as well as female fittings. The 1/4 in. ODF is 3/8 in. ODM, the 3/8 in. ODF is 1/2 in. ODM, the 1/2 in. ODF is 5/8 in. ODM, and the 5/8 in. ODF is 3/4 in. ODM. Models with female flare and/or swivel nut connections are supplied with a copper gasket in the fitting.

Moisture Content PPM

SEE-ALL SHOWS	LIQUID LINE TEMP	REFRIGERANT											
		12		22		134a		502		404A & 507		407C	410A
		75° F	100° F	75° F	100° F	75° F	100° F	75° F	100° F	75° F	100° F	75° F	75° F
Green Dry		Below 5	Below 10	Below 30	Below 45	Below 50	Below 80	Below 10	Below 20	Below 15	Below 30	Below 120	Below 75
Chartreuse CAUTION		5-15	10-30	30-90	45-130	50-200	80-225	10-45	20-65	15-90	30-140	120-280	75-150
Yellow WET		Above 15	Above 30	Above 90	Above 130	Above 200	Above 225	Above 45	Above 65	Above 90	Above 140	Above 280	Above 150

NOTE: Change or add Catch-All Filter-Drier when paper turns from green to chartreuse.