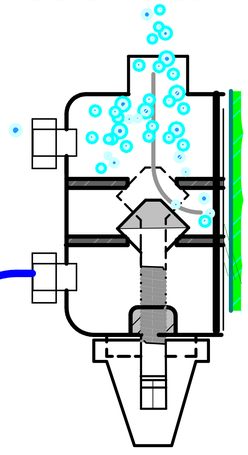
REVISION HISTORY

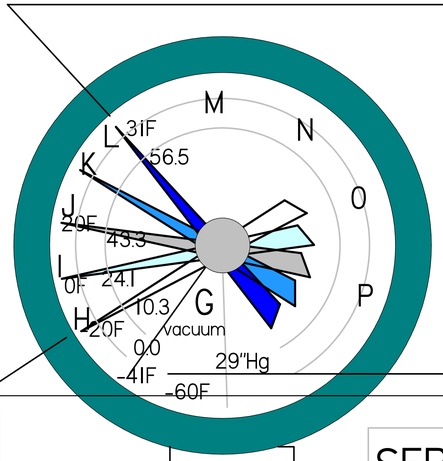
REV	DESCRIPTION	DATE	APPROVED

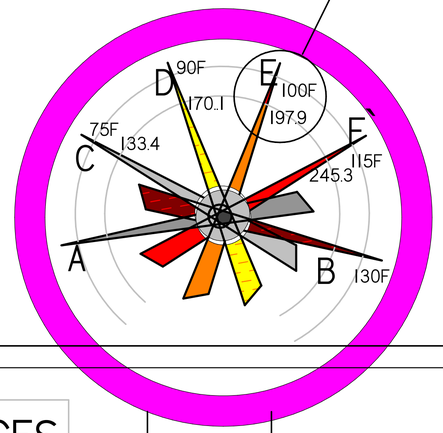
COMPRESSOR SUCTION SERVICE VALVE.

Evaporator coil iced, cold liquid getting back to compressor, icing this valve and compressor body. Expansion valve stuck open, evap, fans failed, TEV iced inside and stuck open. foams oil, ruins its lubricity, ruins compressor bearings. Sluggs liquid into the valves and breaks them.



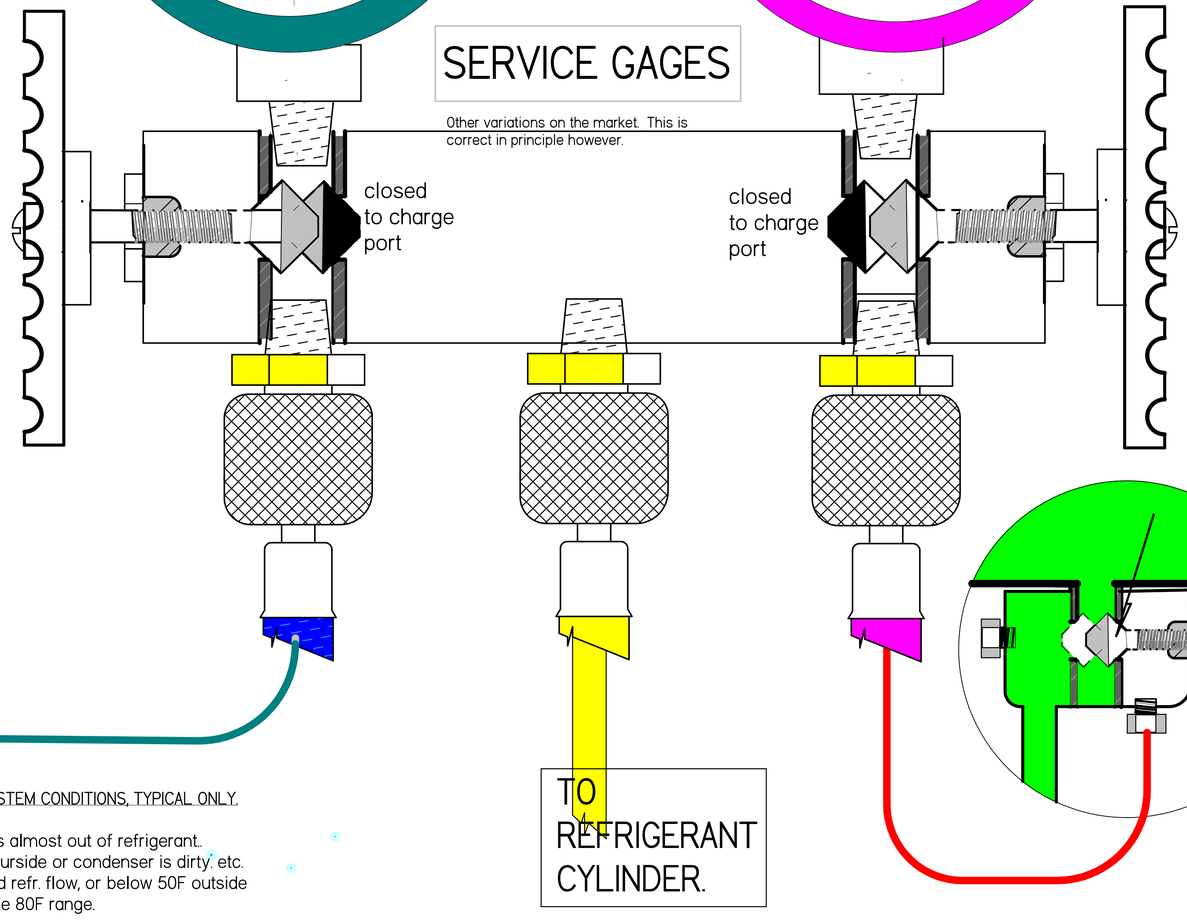
GAGE HOSE





SERVICE GAGES

Other variations on the market. This is correct in principle however.



— VALVE SHOWN 'BACK SEATED CLOSED TO GAGE PORT, OPEN TO REFRIGERANT FLOW.

R-22 Pressure / Temperature Chart

Deg F	PSIG	Deg F	PSIG	Deg F	PSIG
-60F	-11.9	12F	34.9	43F	73.5
-55F	- 9.1	13F	35.9	44F	75.0
-50F	- 6.0	14F	36.9	45F	76.6
-45F	-2.6	15F	37.9	46F	78.2
-40F	0.6	16F	38.9	47F	79.8
-35F	2.7	17F	40.0	48F	81.4
-30F	5.0	18F	41.1	49F	83.0
-25F	7.5	19F	42.2	50F	84.7
-20F	10.3	20F	43.3	55F	93.3
-18F	11.5	21F	44.4	60.F	102.5
-16F	12.7	22F	45.5	65F	112.2
-14F	13.9	23F	46.7	70F	122.5
-12F	15.2	24F	47.8	75F	133.4
-10F	16.6	25F	49.0	80F	145.0
-8F	18.0	26F	50.2	85F	157.2
-6F	19.4	27F	51.5	90F	170.1
-4F	20.9	28F	52.7	95F	183.7
-2F	22.5	29F	54.0	100F	197.9
0F	24.1	30F	55.2	105F	212.9
1F	24.9	31F	56.5	110F	228.7
2F	25.7	32F	57.8	115F	2453

GAGE READING LEGEND, VARIOUS SYSTEM CONDITIONS, TYPICAL ONLY.

A. With compressor OFF, system is almost out of refrigerant..
B. With compressor ON, its 110+F ourside or condenser is dirty. etc.
C. System out of gas, or restricted refr. flow, or below 50F outside
D Normal for outside temps in the 80F range.
E Normal for 85-90F day.
F Normal for a hot day 100-105F.
G Vacuum range, don't run a system below 0 psig.
H.. Typical frozen storage range if system is working OK.
I. - J. Ice machine range, 35F box with coil undersized.
K AC range if its low on gas or filter is dirty, , high for a 35F box.
L Air conditioning range if its working right.
M, N O P High suction pressure, very warm air over evap coils or bad valves in the compressor, typically.

Refrigeration Temp . Pressure Chart