



**NOTES:**

1. HE LEAK TEST @ 1 ATM. 1X10<sup>-7</sup> CC/SEC OR LESS. A GREEN PAINT DOT ON THE ATMOSPHERE SIDE INDICATES THE PART HAS PASSED THE TEST.
2. HYPOT 1000 VDC 500 MEGOHMS MINIMUM 0.01 SECOND MINIMUM PIN TO PIN AND HOUSING WITH MATING CONNECTORS.
3. CONTINUITY TEST <0.5 OHM PIN TO SOCKET WITH MATING CONNECTORS.
4. THE FIRST POSITION PIN CONTACT IN ITEM 3 WILL BE SLIGHTLY LONGER FOR FIRST MATE/LAST BREAK ("FMLB"), ITEM 8 WILL ALSO INCLUDE A LOOSE "FMLB" PIN CONTACT (82M-80082-16).
5. ALCOHOL OR FOMBLIN YVAC 3 MAY BE USED TO LUBRICATE O-RINGS FOR VACUUM HELIUM LEAK TESTING.
6. ALL TESTS ARE PERFORMED AT ROOM TEMPERATURE.
7. ALL PARTS MUST PASS ALL TESTS.
8. COSMETIC SURFACE VOIDS NOT ON O-RING SEALING SURFACES ARE ACCEPTABLE BASED ON THE SEAL'S DIAMETER:  
 <= .5 [12.7] SEAL DIAMETER:  $\phi$ .035 [.89] MAX ALLOWED VOID SIZE  
 > .5 [12.7] SEAL DIAMETER:  $\phi$ .060 [1.5] MAX ALLOWED VOID SIZE
9. REF-OPERATING TEMPERATURE RANGE -20°C TO 125°C.
10. DIMENSIONS ARE INCHES [millimeters].
11. PAVE-SEAL CAN BE A BI-DIRECTIONAL HERMETIC SEAL FOR VACUUM AND MOST PRESSURES. FOR PRESSURES ABOVE 150 PSI (10 BAR), CHECK WITH SALES ENGINEERING.

ITEM	QTY	PART NUMBER	DESCRIPTION
8	1	4116-1P	*SEE NOTE 4 PLUG W/ BANDED BACKSHELL (304SS SHELL/GLCP-30F/FLUOROSILICONE) 8#16 PINS (Au OVER Ni PLATED BeCu) MM CLOCKED A, 300 SERIES SS BAND INCLUDED (600-057-1)
7	1	4116-1S	PLUG W/ BANDED BACKSHELL (304SS SHELL/GLCP-30F/FLUOROSILICONE) 8#16 SOCKETS (Au OVER Ni PLATED BeCu W/SS HOOD) MM CLOCKED A, 300 SERIES SS BAND INCLUDED (600-057-1)
6	1	1014	NUT VS18-SS
5	1	-219 VITON	O-RING -219 VITON 75
4	1	PT-4116-R-SN-1	RCPT (304SS SHELL/GLCP-30F/FLUOROSILICONE) 8#16 SOCKETS (Au OVER Ni PLATED BeCu W/SS HOOD) MM CLOCKED A
3	1	PT-4116-R-PN-1	*SEE NOTE 4 RCPT (304SS SHELL/GLCP-30F/FLUOROSILICONE) 8#16 PINS (Au OVER Ni PLATED BeCu) MM CLOCKED A
2	A/R	PAVE-Seal 150	EPOXY BLACK
1	1	3207	HOUSING VS18-SS

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DESCRIPTION  
 VS18-SS-150-8-16-MMTC16PSA

PART NUMBER  
**5902**

MATERIAL NOTED

REVISION LEVEL -

PROJECTION

ALL DIMENSIONS AND TOLERANCES APPLY TO FINISHED PART IN INCHES.  
 ALLOWABLE TOLERANCES UNLESS SPECIFIED OTHERWISE: NONE ±0.5  
 X.X DECIMAL ±0.1 X.XX DECIMAL ±0.02 X.XXX DECIMAL ±0.005  
 ANGLES ±1 DEGREE SURFACE FINISH 128 microinch RMS