



ATMOSPHERE | VACUUM (1776 & 1776-1)  
PRESSURE (1776-2)

.06 [1.5] MAXIMUM OVER/UNDERFILL,  
NOT INCLUDING MENISCUS ON WIRES,  
SPACING CONTROL NOT REQUIRED  
BOTH SIDES

VS22 INSTALLATION PORT

NOTES:

1. LEAK TESTING, A GREEN PAINT DOT ON THE ATMOSPHERE SIDE INDICATES THE PART HAS PASSED THE SPECIFIED TEST:  
1776 & 1776-1 ONLY: HE LEAK TEST @ 1 ATM. 1X10<sup>-7</sup> CC/SEC OR LESS.  
1776-2 ONLY: LEAK TEST 150 PSI NO N2 BUBBLES 1 MINUTE MINIMUM.
2. HYPOT 630 VDC 500 MEGOHMS MINIMUM 0.01 SECOND MINIMUM WIRE TO WIRE AND HOUSING.
3. ALCOHOL OR FOMBLIN YVAC 3 MAY BE USED TO LUBRICATE O-RINGS FOR VACUUM HELIUM LEAK TESTING.
4. ALL TESTS ARE PERFORMED AT ROOM TEMPERATURE.
5. ALL PARTS MUST PASS ALL TESTS.
6. WIRE POSITIONING IS APPROXIMATE & VARIABLE.
7. 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
8. REF-OPERATING TEMPERATURE RANGE -20°C TO 125°C.
9. DIMENSIONS ARE INCHES [millimeters].
10. 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.

PART#	X
1776	72 [1829]
1776-1	19.69 [500]
1776-2	19.69 [500]

FOR 1776-1 ONLY:  
LABEL ALL WIRES BOTH ENDS WITHIN  
3 INCHES [76.2mm] OF WIRE END

ITEM	QTY	PART NUMBER	DESCRIPTION
14	90	BRADY WIRE MARKERS	WIRE MARKERS (NUMBERED1-45)
13	5	TZ20 BLK M/16	WIRE 20 TEFZEL M22759/16 19/#32
12	5	TZ20 BLUE	WIRE 20 TEFZEL M22759/16 19/#32
11	5	TZ20 BROWN	WIRE 20 TEFZEL M22759/16 19/#32
10	5	TZ20 GRN M/16	WIRE 20 TEFZEL M22759/16 19/#32
9	5	TZ20 ORANGE	WIRE 20 TEFZEL M22759/16 19/#32
8	5	TZ20 RED M/16	WIRE 20 TEFZEL M22759/16 19/#32
7	5	TZ20 VIOLET	WIRE 20 TEFZEL M22759/16 19/#32
6	5	TZ20 WHT M/16	WIRE 20 TEFZEL M22759/16 19/#32
5	5	TZ20 YELLOW	WIRE 20 TEFZEL M22759/16 19/#32
4	1	0199	NUT VS22-SS
3	1	-224 VITON	O-RING -224 VITON 75
2	A/R	PAVE-Seal 150	EPOXY BLACK
1	1	0189	HOUSING VS22-SS

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DESCRIPTION  
VS22-SS-150-45-TZ20-X-X

PART NUMBER \*SEE TABLE & NOTE 1  
**1776\***

MATERIAL NOTED  
REVISION LEVEL C

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