

Title

O RING SPEC. V049-2-045

SM LIGOV7.WB1

SERVICE : ULTRA HIGH VACUUM SEALS

MATERIAL: MOLDED CORD STOCK; CERTIFIED DUPONT VITON E-60C

DUROMETER : 75

JOINTS : VULCANIZED SPLICE

CROSS-SECTION DIAMETER : 0.275 + - 0.006 INCHES

DEVELOPED LENGTH : SEE TABLE 1

SPECIAL REQUIREMENTS:

1. O RINGS SHALL BE SUPPLIED SUITABLE FOR ULTRA HIGH VACUUM SERVICE. ORINGS MUST BE SUPPLIED CONSISTENT WITH CLASS 100 CLEAN ROOM STANDARDS. HANDLING AND PACKAGING TO PREVENT CONTAMINATION FROM DIRT, HYDROCARBONS (OILS,GREASES,FINGERPRINTS ETC.),GRIT,CHIPS, MANUFACTURING RESIDUES,PARTICULATES (DUST,HAIR,LINT ETC.) IS REQUIRED.SUPPLIER MUST SUBMIT HANDLING AND PACKAGING PROCEDURES TO PSI, FOR APPROVAL, PRIOR TO MANUFACTURING O RINGS.
2. O RINGS SHALL BE INDIVIDUALLY PACKAGED IN SEALED PROTECTIVE POLYETHYLENE PLASTIC BAGS.BAGS SHALL BE PUNCTURE RESISTANT AND AIR TIGHT. BAGS SHALL BE MARKED WITH PART NO.,FLANGE SIZE,CORD LENGTH, AND LOT NO.
3. O RINGS WILL BE VACUUM BAKED BY PSI TO REMOVE (OFF-GAS) WATER, VOLATILE COMPOUNDS , AND GASSES, REMAINING IN THE BULK VITON. BAKING WILL BE DONE AT 150 C (300 F) , 1 E-4 TORR.

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TABLE 1

PART NO.	FLANGE SIZE	CROSS SECT. INCHES	CORD LENGTH INCHES	REF. DWG.
V049M016	104	0.275 + - 0.006	337.5	V049-4-022
V049M017	104	0.275 + - 0.006	328.125	V049-4-022
V049M018	84	0.275 + - 0.006	274.375	V049-4-021
V049M019	84	0.275 + - 0.006	265.125	V049-4-021
V049M020	72	0.275 + - 0.006	237.125	V049-4-020
V049M021	72	0.275 + - 0.006	227.75	V049-4-020
V049M022	60	0.275 + - 0.006	200.625	V049-4-019
V049M023	60	0.275 + - 0.006	191.25	V049-4-019
V049M024	48	0.275 + - 0.006	162.5	V049-4-018
V049M025	48	0.275 + - 0.006	153.125	V049-4-018
V049M026	44	0.275 + - 0.006	150	V049-4-017
V049M027	44	0.275 + - 0.006	140.75	V049-4-017
V049M028	30	0.275 + - 0.006	106.5	V049-4-016
V049M029	30	0.275 + - 0.006	97.188	V049-4-016

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