



REQUIREMENT OF O-RING, GASKETS, SEAL, BONDED SEAL, RING, PACKING, BUMPER & HYDER

The Heavy Electricals Equipment Plant (HEEP) located in Haridwar, India is one of the major manufacturing plants of Bharat Heavy Electricals Ltd. The core business of HEEP includes design and manufacture of large steam and gas turbines, turbo generators, Defense Items and so on.

Details of items details as below:

SLN	MAT CODE	ITEM DISCREPTION	QTY (NOS)	DELIVERY (DAYS)
1	W97011202501	O-RING, AN6230-B40, SIZEID: 7 INCHES, OD:7-1/4 INCHES, MATERIAL:CLASS-B AS PER MIL-P-5516, DIMENSION AND TOLERANCES AS PER AN6230, PROCUREMENT SPECIFICATION: MIL-P-5516. ALTERNATE O-RING MS28775-262, DIMENSION AND TOLERANCES AS PER MS28775, PROCUREMENT SPEC- MIL-P-25732 SIZE: PN 102612116 7 INCHES, OD:7-1/4 INCHES, MATERIAL:CLASS-B AS PER MIL-P-5516, DIMENSION AND TOLERANCES AS PER AN6230, PROCUREMENT SPECIFICATION: MIL-P-5516. ALTERNATE O-RING MS28775-262, DIMENSION AND TOLERANCES AS PER MS28775, PROCUREMENT SPEC- MIL-P-25732 SIZE: PN 102612116	2	45
2	W97011201068	O-RING, MS28775-010 N.STD:MS28775 SIZE: PN 127604200/ 230079004	16	45
3	W97011201076	O-RING, MS28778-4 N.STD:MS28778 SIZE: P/N 1276-04-201	50	45
4	W97011201092	O-RING, MS28775-011 N.STD:MS28775 SIZE: P/N 1376-04-138	88	45
5	W97011201106	SEAL TYPE 000-1030-2 RETAINER ASTM A-570ST CADMIUM PLATED QQ-P-416 TYP II CLASS 3 SEAL, SYN RUB MIL-R-3065 MIL-STD-417, SB715 OF M/S DA/PRO RUBBER CO. SIZE: P/N 1376-04-141	20	45
6	W97011201114	O-RING, MS28775-013 N.STD:MS28775 SIZE: P/N 230079007,137604143	14	45
7	W97011201130	O-RING, MS28775-016 N.STD:MS28775 SIZE: P/N 1376-04-145	107	45

8	W97011201149	O-RING, MS28775-121 N.STD:MS28775 SIZE: P/N 1376-04-155	20	45
9	W97011201173	O-RING, MS28775-233 N.STD:MS28775 SIZE: P/N 1376-04-237	52	45
10	W97011201181	O-RING, MS28775-220 N.STD:MS28775 SIZE: P/N 127608426, 230079110	353	45
11	W97011201190	O-RING, MS28775-123 N.STD:MS28775 SIZE: P/N 1276-08-430	80	45
12	W97011201203	O-RING, MS28775-211 N.STD:MS28775 SIZE: P/N 1376-04-159	41	45
13	W97011201238	O-RING, MS28778-12 N.STD:MS28778 SIZE: P/N 1376-18-103	72	45
14	W97011201297	O-RING, MS28775-008 N.STD:MS28775 SIZE: P/N 230079002	2	45
15	W97011201300	O-RING, MS28775-009 P/N 230079003 ,P/N 137604142 N.STD:MS28775 SIZE: 230079003	6	45
16	W97011201327	O-RING, MS28775-014 N.STD:MS28775 SIZE: P/N 230079008	8	45
17	W97011201351	O-RING, MS28775-018 N.STD:MS28775 SIZE: P/N 230079012	24	45
18	W97011201378	O-RING, MS28775-022 N.STD:MS28775 SIZE: P/N 137623170	76	45
19	W97011201386	O-RING, MS28775-023 N.STD:MS28775 SIZE: P/N 230079017	90	45
20	W97011201408	O-RING, MS28775-025 N.STD:MS28775 SIZE: P/N 230079019	36	45
21	W97011201416	O-RING, MS28775-026 N.STD:MS28775 SIZE: P/N 230079020	24	45
22	W97011201467	O-RING, MS28775-116 N.STD:MS28775 SIZE: P/N 230079046	16	45
23	W97011201513	O-RING, MS28775-124 P/N 137602128 P/N 230079054 N.STD:MS28775 SIZE: 137602128,230079054	16	45
24	W97011201521	O-RING, MS28775-126 P/N 127608431 P/N 230079056 N.STD:MS28775 SIZE: 127608431,230079056	86	45
25	W97011201556	O-RING, MS28775-132 N.STD:MS28775 SIZE: P/N 230079062	160	45

26	W97011201572	O-RING, MS28775-136 N.STD:MS28775 SIZE: P/N 230079066	8	45
27	W97011201645	O-RING, MS28775-145 N.STD:MS28775 SIZE: P/N 230079075	16	45
28	W97011201688	O-RING, MS28775-213 N.STD:MS28775 SIZE: P/N 127623662	10	45
29	W97011201696	O-RING, MS28775-215 P/N 137602129 P/N 230079105 N.STD:MS28775 SIZE: 137602129,230079105	52	45
30	W97011201793	O-RING, MS28775-231 N.STD:MS28775 SIZE: P/N 230079121	8	45
31	W97011201823	O-RING, MS28775-235 N.STD:MS28775 SIZE: P/N 230079125	24	45
32	W97011201890	O-RING, MS28775-326 N.STD:MS28775 SIZE: P/N 127604184	86	45
33	W97011201912	O-RING, MS28775-338 N.STD:MS28775 SIZE: P/N 137605323	8	45
34	W97011201971	O-RING, MS28775-454 N.STD:MS28775 SIZE: P/N 230079269	8	45
35	W97011201998	O-RING MS28778-20 N.STD:MS28778 SIZE: P/N 157618232	12	45
36	W97011202056	O-RING, MS9021-276 N.STD:MS9021 SIZE: P/N 137605126	8	45
37	W97011202064	O-RING, MS28775-345 N.STD:MS28775 SIZE: P/N 137604122	24	45
38	W97011202080	O RING MIL-R-83248-1-246 (113.9 X 3.53) N.STD:MIL-R-83248 SIZE: P/N 137601127	18	45
39	W97011202110	O RING MIL-R-83248-1-265 (196.45 X 3.53) N.STD:MIL-R-83248 SIZE: P/N 137601123	3	45
40	W97011202145	O RING MS28775-445 V747-75(202.57X6.99) SPEC.NO. MIL-R-83248 CLASS 1 N.STD:MS28775 SIZE: p/n 137605124	23	45
41	W97011202188	O RING,HITECH PRECISION, MADE FROM SYNTHETIC RUBBER WITH SHORE HARDNESS=60 AND DIMENSION-ID-120.7XT=5.34 EQUIVALENT TO OR 201 P60 OF	6	45

		ANGST & PFISTER. N.STD:ANGST & PFISTER MAKE SIZE: p/n 230020102		
42	W97011202196	O RING, HITECH PRECISION, MADE FROM SYNTHETIC RUBBER WITH SHORE HARDNESS= 60 & DIMENSION-ID-127.0XT-5.34 EQUIVALENT TO OR 206 P60 OF ANGST & PFISTER. N.STD:ANGST & PFISTER MAKE SIZE: p/n 230020107	10	45
43	W97011202293	O-RING HITEC PRECISION, MAT GRADE NBR 90.5/P90 (90 SHA +/- 5SH) OR 3050 P 90 12.37 X 2.62 N.STD:ANGST &	24	45
44	W97011202382	BONDED SEAL FOR SEALING ON A SCREW SIZE:M42 OR SMOOTH PIN DIA:42MM, MATERIAL: NBR (SHORE HARDNESS A: 70-90)-STAINLESS STEEL, WORKING CONDITION:- PRESSURE: UPTO 600 BAR, TEMP.: -20 TO +120 DEGREE CELCIUS, COMMERCIAL REFERENCE NO:BS D42 OF BAGUES, DOWRTY,POLYPAC OR EQUIVALENT. N.STD:BAGUES MAKE SIZE: p/n 230079474	12	45
45	W97011202420	O-RING AN6230-B27 N.STD:AN6230 SIZE: P/N 230079139	4	45
46	W97011202447	BONDED SEAL FOR SEALING ON A SCREW SIZE:M12 OR SMOOTH PIN DIA:12MM, MATERIAL: NBR (SHORE HARDNESS A: 70-90)-MILD STEEL, WORKING CONDITION:- PRESSURE: UPTO 600 BAR, TEMP.: -20 TO +120 DEGREE CELCIUS, COMMERCIAL REFERENCE NO:BS B12 OF BAGUES, DOWRTY,POLYPAC OR EQUIVALENT. N.STD:BAGUES MAKE SIZE: P/N 137697520	3	45
47	W97013601012	RING, SPLIT, MS28782-29 N.STD:MS28782 SIZE: P/N 1276-08-129	154	45
48	W97013601055	PKG R,BACK-UP, MS28782-72 N.STD:MS28782 SIZE: P/N 137605127	4	45
49	W97013601071	RING, BACK-UP N.STD:DALMER MAKE SIZE: P/N 127608167	82	45
50	W97015701146	GASKET, MS52000-4 N.STD:MS52000 SIZE: P/N 1127-37-141	12	45
51	W97015701189	GASKET, MS52000-6 N.STD:MS52000 SIZE: P/N 1276-31-108	12	45

52	W97015701286	GASKET, MS52000-5 N.STD:MS52000 SIZE: P/N 112705509	6	45
53	W97015701308	GASKET, MS28777-12 N.STD:MS28777 SIZE: P/N 137618165	35	45
54	W97015701391	RING FLON RC ROD SEAL,TWO PART SEALING SET COMPRISING A PTFE PROFILE RING (RC4087) WITH AN O-RING(OR4087-HARDNESS :70 SHORE A)AS A PRESTRESSING ELEMENT,WORKING CONDITIONPRESSURE: 21 MEGAPASCAL,TEMP: -30 TO +100 DEGREE C,REFERENCE ARTICLE/MODEL NO:11.5912.1022 OF M/S ANGST+PFISTER OR EQVLNT SIZE: D/N 137602137	20	45
55	W97015701537	GASKET, ASN 25M SIZE: P/N 137602173	8	45
56	W97015701715	OIL SEAL A+P,NBR AP 70.12 TYPE A (DIN 3760) 90 X 120 X 12 MM N.STD:ANGST & PFISTER MAKE SIZE: P/N 230021133	50	45
57	W97015702010	GASKET SIZE: P/N 137605450	5	45
58	W97031301475	O-RING, SEALING RING R22KN AWC860 63.4X53X7 GH OF CHESTERTON MAKE OR EQUIVALENT. FOR WORKING PRESSURE 100 BAR AND TEMPERATURE -30 TO +80 DEGREE CELSIUS. SIZE: P/N 137617261	4	45
59	W97031301483	O-RING, SEALING RING R22KN AWC860 80.4X70X7 GH OF CHESTERTON MAKE OR EQUIVALENT. FOR WORKING PRESSURE 100 BAR AND TEMPERATURE -30 TO +80 DEGREE CELSIUS. SIZE: P/N 137617262	12	45
60	W97032301304	SHOCK RING, SIZE 33X16X9 MODEL VK 550206 OF HUBNER GMBH OR EQUIVALENT SIZE: P/N 157611225	48	45
61	W97032301312	BUMPER,SIZE 114X66X18 SIZE: P/N 157605272	84	45
62	W97032301320	BUMPER, SIZE 70X30X16 SIZE: P/N 157602197	24	45
63	W97032301339	BUMPER, SIZE 60X25X18 SIZE: P/N 157602198	18	45
64	W97051802011	GASKET MS51007-5 N.STD:MS51007 SIZE: P/N 811GU0035	20	45
65	W97035901019	HYDR BACK-UP, MS28777-10 N.STD:MS28777 SIZE: P/N 157606699	17	45
66	W97011201122	O-RING, MS28775-112 N.STD:MS28775 SIZE: P/N 1376-04-144	26	45

67	W97011201254	O-RING, AN6230-B34 N.STD:AN6230 SIZE: P/N 230079146	2	45
68	W97011201440	O-RING, MS28775-114 N.STD:MS28775 SIZE: P/N 230079044	19	45
69	W97011201564	O-RING, MS28775-135 N.STD:MS28775 SIZE: P/N 137604204	22	45
70	W97011201599	O-RING, MS28775-139 N.STD:MS28775 SIZE: P/N 230079069	3	45
71	W97011201963	O-RING, MS28775-447 N.STD:MS28775 SIZE: P/N 137605125	8	45
72	W97011202102	O RING MIL-R-83248-1-255 (142.47 X 3.53) M83248-1-255 N.STD:MIL-R-83248 SIZE: P/N 137601126	12	45
73	W97011202323	BONDED SEAL FOR SEALING ON A SCREW SIZE:M3 OR SMOOTH PIN DIA:3MM, MATERIAL: NBR (SHORE HARDNESS A: 70-90)-STAINLESS STEEL, WORKING CONDITION:- PRESSURE: UPTO 600 BAR, TEMP.: -20 TO +120 DEGREE CELCIUS, COMMERCIAL REFERENCE NO:BS A3 OF BAGUES, DOWRTY,POLYPAC OR EQUIVALENT. N.STD:BAGUES MAKE SIZE: p/n 230079440	5	45
74	W97011202358	BONDED SEAL FOR SEALING ON A SCREW SIZE:M16 OR SMOOTH PIN DIA:16MM, MATERIAL: NBR (SHORE HARDNESS A: 70-90)-STAINLESS STEEL, WORKING CONDITION:- PRESSURE: UPTO 600 BAR, TEMP.: -20 TO +120 DEGREE CELCIUS, COMMERCIAL REFERENCE NO:BS B16 OF BAGUES, DOWRTY,POLYPAC OR EQUIVALENT. N.STD:BAGUES MAKE SIZE: p/n 230079456	2	45
75	W97011202404	O-RING, MS28778-16 N.STD:MS28778 SIZE: P/N 137618270	51	45
76	W97011202412	SEAL, BAGUES B.S. B14 N.STD:BAGUES MAKE SIZE: P/N 137605116	36	45
77	W97015701162	O-RINGS MS28775-446 MS28775-446 V747-75(215.27X699) MIL-R-83248 CLASS 1 N.STD:MS28775 SIZE: P/N 1276-19-188	7	45
78	W97031301092	RETAINER, PACKING MS28782-25 N.STD:MS28782 SIZE: P/N 1276-08-440	634	45

79	W97011201475	O-RING, MS28775-117 N.STD:MS28775 SIZE: P/N 230079047	2	45
80	W97011201041	O-RING SIZE: P/N 1576-38-131	10	45

1. ALL VENDORS TO PROVIDE POINT WISE REPLY/CONFIRMATION ALONG WITH RELEVANT SUPPORTING DOCUMENTS TO EACH AND EVERY POINT OF PRE-QUALIFICATION REQUIREMENT/PQR FOR ALL ENQUIRY ITEMS. NONCOMPLIANCE OF THESE MAY LEAD TO REJECTION OF OFFER AS THESE ARE ESSENTIAL CONDITION FOR PARTICIPATING IN TENDER ENQUIRY
2. KINDLY UPLOAD/ATTACH THE SPECIFICATION DETAILS/ CATALOGUE OF OFFERED ITEMS.
3. KINDLY ARRANGE TO **SUBMIT TECHNO-COMMERCIAL CHECKLIST** ALONG WITH YOUR OFFER.
4. CURE DATE SHOULD NOT BE EARLIER THAN 3 MONTHS FROM DATE OF RECEIPT AT BHEL HARIDWAR.
5. VENDOR TO CONFIRM TO PROVIDE MATERIAL & DIMENSIONAL TEST CERTIFICATES OF THE ITEMS ALONG WITH MATERIAL DISPATCH.
6. VENDOR TO CONFIRM TO MENTION PO NUMBER, ITEM DESCRIPTION, MANUFACTURERS NAME, BATCH NUMBER, MILITARY SPECIFICATION NUMBER, CURE DATE & SHELF LIFE IN T.C. AS WELL AS ON ITEMS PACKING.
7. VENDOR TO CONFIRM TO PROVIDE DOCUMENTS KEEP PROPER CORRELATION WITH PO ITEMS AND THEIR QUANTITY.
8. VENDOR TO CONFIRM TO PROVIDE CERTIFICATE OF CONFORMANCE ALONG WITH MATERIAL DISPATCH.
9. VENDOR TO CONFIRM TO SUPPLY THE MATERIAL AS PER THE ATTACHED PACKING INSTRUCTIONS.

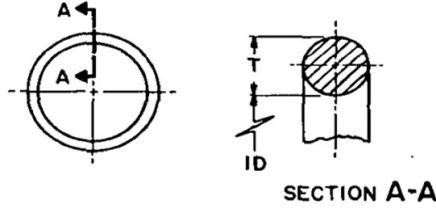
QUALIFYING CONDITIONS for O-RINGS, GASKETS, PACKING ETC.

Sl. no.	PQR Requirement	Vendor Response	Vendor Response (Yes / No)
1.	<p>Only those manufacturers or authorized dealer/distributor of Original Equipment Manufacturers, should quote who have manufactured and / or supplied O-RINGS, GASKETS, PACKING etc. as per following Military specifications and/or can produce items as per drawing:</p> <ul style="list-style-type: none"> a) AN6230 b) CHESTERTON MAKE OR EQUIVALENT c) MIL-R-83248 d) MS28775 e) MS28777 f) MS28778 g) MS28782 h) MS51007 i) MS52000 j) MS9021 k) BONDED SEAL BAGUES, DOWTY SEALS l) HUBNER GMBH OR EQUIVALENT m) ANGST & PFISTER MAKE OR EQUIVALENT n) DALMER MAKE OR EQUIVALENT 	Vendor / Dealer to confirm	
2.	who can provide Material Test Certificate (MTC) from NABL certified / Govt. approved Labs / OEM certified lab.	Vendor to confirm	
3.	Vendor can provide Certificate of Conformance.	Vendor to confirm	
4.	<i>Above points are the Mandatory Qualification Requirements. Offers of vendors not meeting these requirements will NOT be considered.</i>	Vendor to accept & confirm	

AGM/DPE-DABG

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

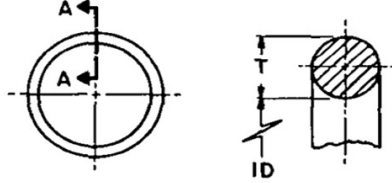
ITEM CODE W97011202501
 ITEM NAME O-RING, AN6230-B40
 (MS28775-262)
 ITEM PART NO P/N 102612116
 INTERNATIONAL EQUIVALENT AN6230-B40; MS28775-262



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	262	-	To confirm	→
3	ID (Min.)	6.961(176.81)	IN (MM)	Input Value	→
4	ID (Max.)	7.007 (177.98)	IN (MM)	Input Value	→
5	T (Min.)	0.135 (3.429)	IN (MM)	Input Value	→
6	T (Max.)	0.143 (3.632)	IN (MM)	Input Value	→
7	WEIGHT	0.00708	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275 ° - 54 ° to + 135 °	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97011201068
ITEM NAME O-RING, MS28775-010
ITEM PART NO P/N 127604200
INTERNATIONAL EQUIVALENT MS28775-010



SECTION A-A

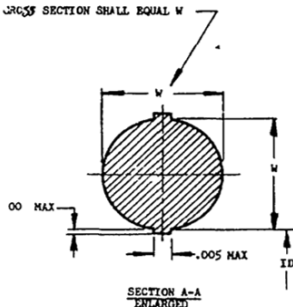
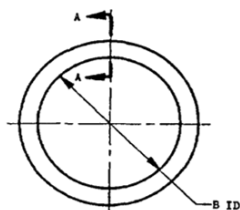
SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	010	-	To confirm	→
3	ID (Min.)	0.234 (5.94)	IN (MM)	Input Value	→
4	ID (Max.)	0.244 (6.20)	IN (MM)	Input Value	→
5	T (Min.)	0.067 (1.702)	IN (MM)	Input Value	→
6	T (Max.)	0.073 (1.854)	IN (MM)	Input Value	→
7	WEIGHT	0.000077	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE
ITEM NAME
ITEM PART NO
INTERNATIONAL EQUIVALENT

W97011201076
O-RING, MS28778-4
P/N 127604201
MS28778-4

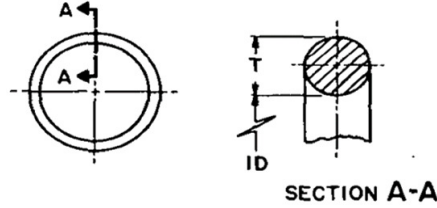
ALL DIMETERS OF CROSS SECTION SHALL EQUAL W



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28778	-	To confirm	→
2	DASH NO	4	-	To confirm	→
3	TUBE OD	1/4	INCH	Input Value	→
4	INNER DIA	0.351 +/- 0.005 (8.915 +/- 0.254)	IN (MM)	Input Value	→
5	CROSS SECTION DIA	0.072 +/- .003 (1.829 +/- 0.076)	IN (MM)	Input Value	→
6	MATERIAL	ACRYLONITRILE BUTADIENE RUBBER (NITRILE / NBR RUBBER)	-	To confirm	→
6.1	SPECIFIC GRAVITY (ASTM D1414) & ASTM D297)	1.25 - 1.45		Input Value	→
6.2	HARDNESS AT 25 DEG.C, SHORE DUROMETER TYPE A (ASTM D2240)	88 MIN.	POINTS	Input Value	→
6.3	TENSILE STRENGTH (ASTM D1414 & ASTM D412)	1450	PSI	Input Value	→
6.4	ELONGATION, ULTIMATE, MINIMUM	80	%	Input Value	→
6.5	TESILE STRESS (MODULUS) AT 50% ELONGATION	500 MIN.		Input Value	→
6.6	TEMPERATURE RETRACTION, TR-10 (50% ELONGATION AND 10% RETURN) (ASTM D1414 & ASTM D1329)	-43 DEG.C MAX.		Input Value	→
6.7	AIR AGED 168 HRS AT 70 DEG.C				
6.7.1	HARDNESS CHANGE (ASTM D2240)	0 - +5	POINTS	Input Value	→
6.7.2	TESILE STRENGTH CHANGE, MAX. (ASTM D1414 & ASTM D412)	-10	%	Input Value	→
6.7.3	ELONGATION CHANGE, MAX.	-15	%	Input Value	→
6.7.4	COMPRESSIONSET AT 25 % COMPRESSION (ASTM D1414 & METHOD B OF ASTM D395)	35		Input Value	→
6.8	OIL AGED 168 HRS AT 70 DEG.C IN OIL MIL-H-5606				
6.8.1	HARDNESS CHANGE (ASTM D2240)	-5 TO +5	POINTS	Input Value	→
6.8.2	TESILE STRENGTH CHANGE, MAX. (ASTM D1414-6 & ASTM D412)	-15	%	Input Value	→
6.8.3	ELONGATION CHANGE, MAX.	-20	%	Input Value	→
6.8.4	TEMPERATURE RETRACTION	-39.5 DEG.C MAX.		Input Value	→
6.8.5	COMPRESSIONSET AT 25 % COMPRESSION (ASTM D1414-9 & METHOD B OF ASTM D395)	25		Input Value	→
6.8.6	VOLUME CHANGE	=1 TO +8	%	Input Value	→
7	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
8	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
9	CERTIFICATION	Material Test Certificate (MTC). MTC to include test report for 6.1 to 6.8 above.	Y	Confirm to supply	→
10	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
11	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

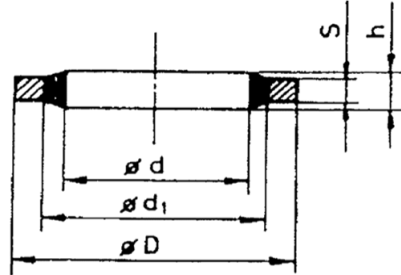
ITEM CODE	W97011201092
ITEM NAME	O-RING, MS28775-011
ITEM PART NO	P/N 137604138
INTERNATIONAL EQUIVALENT	MS28775-011



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	011	-	To confirm	→
3	ID (Min.)	0.296 (7.52)	IN (MM)	Input Value	→
4	ID (Max.)	0.306 (7.77)	IN (MM)	Input Value	→
5	T (Min.)	0.067 (1.702)	IN (MM)	Input Value	→
6	T (Max.)	0.073 (1.854)	IN (MM)	Input Value	→
7	WEIGHT	0.000095	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

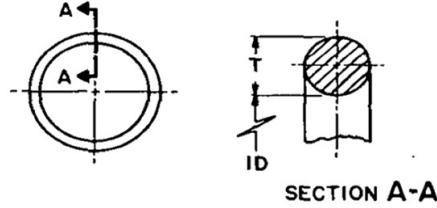
ITEM CODE W97011201106
ITEM NAME SEAL, BAGUES B.S. C28
ITEM PART NO P/N 137604141
INTERNATIONAL EQUIVALENT BONDED SEAL BAGUES C28
CODE 19332 OF DA PRO RUBBER CO.



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	BONDED SEALS (DOWTY, POLYPAC, LE JOINT FRANCAIS ETC.)	-	To confirm	→
2	APPLICATION THREAD SIZE	M28			
3	INNER DIA (d)	28.6 +/- 0.1	MM	Input Value	→
4	SEAL DIA (d1)	30.3 +/- 0.1	MM	Input Value	→
5	OUTER DIA (D)	36 (+ 0.1 / - 0.25)	MM	Input Value	→
6	HEIGHT (h)	2.8	MM	Input Value	→
7	SEAL WIDTH (S)	2	MM	Input Value	→
8	WORKING PRESSURE	600	BAR	Input Value	
9	WASHER MATERIAL	STEEL: TENSILE 540 MN/m2 (MIN.)	C	Input Value	→
10	WASHER FINISH	ZINC PLATING	-	To confirm	→
11	SEAL MATERIAL	RUBBER NBR: SHORE HARDNESS A 70 +/- 5 OR FKM		Specify Spec.	→
12	Shelf life	Minimum 10 years	-	To confirm	→
13	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
14	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
15	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

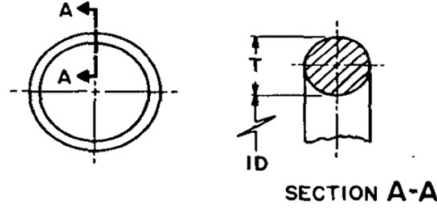
ITEM CODE W97011201114
 ITEM NAME O-RING, MS28775-013
 ITEM PART NO P/N 230079007, 137604143
 INTERNATIONAL EQUIVALENT MS28775-013



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	013	-	To confirm	→
3	ID (Min.)	0.421 (10.69)	IN (MM)	Input Value	→
4	ID (Max.)	0.431 (10.95)	IN (MM)	Input Value	→
5	T (Min.)	0.067 (1.702)	IN (MM)	Input Value	→
6	T (Max.)	0.073 (1.854)	IN (MM)	Input Value	→
7	WEIGHT	0.00013	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

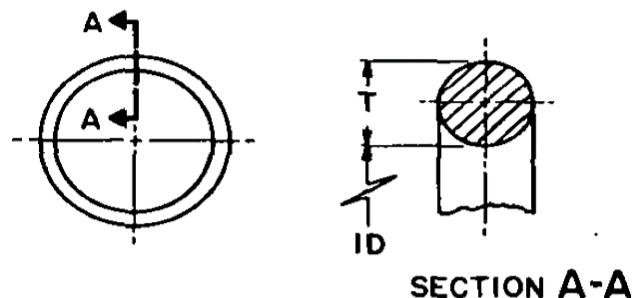
ITEM CODE	W97011201130
ITEM NAME	O-RING, MS28775-016
ITEM PART NO	P/N 137604145
INTERNATIONAL EQUIVALENT	MS28775-016



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	016	-	To confirm	→
3	ID (Min.)	0.609 (15.47)	IN (MM)	Input Value	→
4	ID (Max.)	0.619 (15.72)	IN (MM)	Input Value	→
5	T (Min.)	0.067 (1.702)	IN (MM)	Input Value	→
6	T (Max.)	0.073 (1.854)	IN (MM)	Input Value	→
7	WEIGHT	0.00017	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

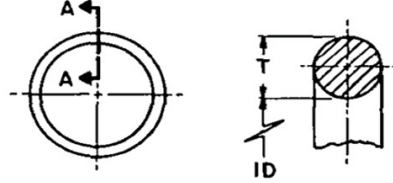
ITEM CODE W97011201149
ITEM NAME O-RING, MS28775-121
ITEM PART NO P/N 137604155
INTERNATIONAL EQUIVALENT MS28775-121



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	121	-	To confirm	→
3	ID (Min.)	1.043 (26.49)	IN (MM)	Input Value	→
4	ID (Max.)	1.055 (26.80)	IN (MM)	Input Value	→
5	T (Min.)	0.100 (2.54)	IN (MM)	Input Value	→
6	T (Max.)	0.160 (2.692)	IN (MM)	Input Value	→
7	WEIGHT	0.00063	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275 ° - 54 ° to + 135 °	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97011201173
ITEM NAME O-RING, MS28775-233
ITEM PART NO P/N 137604237
INTERNATIONAL EQUIVALENT MS28775-233

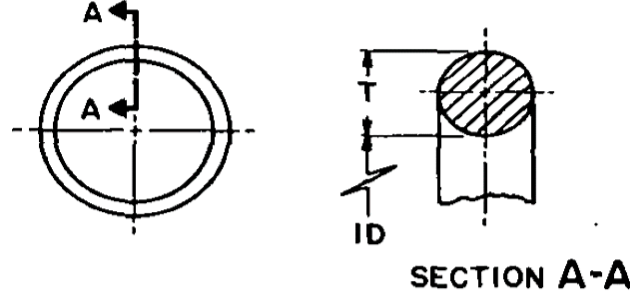


SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	233	-	To confirm	→
3	ID (Min.)	2.844 (72.24)	IN (MM)	Input Value	→
4	ID (Max.)	2.874 (73.00)	IN (MM)	Input Value	→
5	T (Min.)	0.135 (3.429)	IN (MM)	Input Value	→
6	T (Max.)	0.143 (3.632)	IN (MM)	Input Value	→
7	WEIGHT	0.00298	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

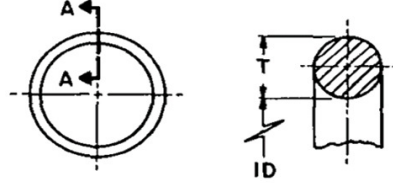
ITEM CODE W97011201181
ITEM NAME O-RING, MS28775-220
ITEM PART NO P/N 127608426, 230079110
INTERNATIONAL EQUIVALENT MS28775-220



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	220	-	To confirm	→
3	ID (Min.)	1.353 (34.37)	IN (MM)	Input Value	→
4	ID (Max.)	1.363 (34.67)	IN (MM)	Input Value	→
5	T (Min.)	0.135 (3.429)	IN (MM)	Input Value	→
6	T (Max.)	0.143 (3.632)	IN (MM)	Input Value	→
7	WEIGHT	0.00149	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275 ° - 54 ° to + 135 °	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97011201190
 ITEM NAME O-RING, MS28775-123
 ITEM PART NO P/N 127608430
 INTERNATIONAL EQUIVALENT MS28775-123

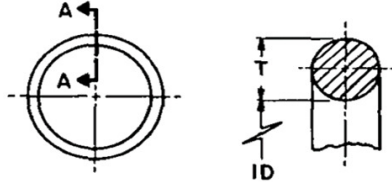


SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	123	-	To confirm	→
3	ID (Min.)	1.168 (29.667)	IN (MM)	Input Value	→
4	ID (Max.)	1.180 (29.972)	IN (MM)	Input Value	→
5	T (Min.)	0.100 (2.540)	IN (MM)	Input Value	→
6	T (Max.)	0.106 (2.692)	IN (MM)	Input Value	→
7	WEIGHT	0.0007	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97011201203
ITEM NAME O-RING, MS28775-211
ITEM PART NO P/N 137604159
INTERNATIONAL EQUIVALENT MS28775-211



SECTION A-A

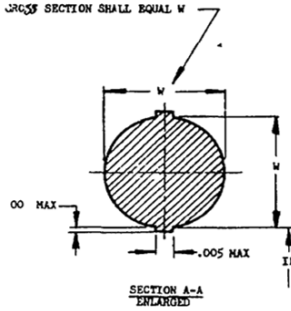
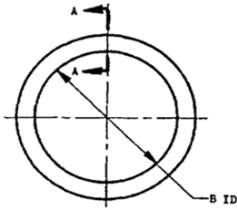
SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	211	-	To confirm	→
3	ID (Min.)	0.79 (20.066)	IN (MM)	Input Value	→
4	ID (Max.)	0.802 (20.371)	IN (MM)	Input Value	→
5	T (Min.)	0.135 (3.429)	IN (MM)	Input Value	→
6	T (Max.)	0.143 (3.632)	IN (MM)	Input Value	→
7	WEIGHT	0.00093	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE
ITEM NAME
ITEM PART NO
INTERNATIONAL EQUIVALENT

W97011201238
O-RING, MS28778-12
P/N 137618103
MS28778-12

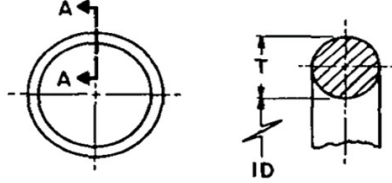
ALL DIMETERS OF CROSS SECTION SHALL EQUAL W



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28778	-	To confirm	→
2	DASH NO	12	-	To confirm	→
3	TUBE OD	3/4	INCH	Input Value	→
4	INNER DIA	0.924 +/- 0.006 (23.47 +/- 0.152)	IN (MM)	Input Value	→
5	CROSS SECTION DIA	0.116 +/- 0.004 (2.946 +/- 0.102)	IN (MM)	Input Value	→
6	MATERIAL	ACRYLONITRILE BUTADIENE RUBBER (NITRILE / NBR RUBBER)	-	To confirm	→
6.1	SPECIFIC GRAVITY (ASTM D1414) & ASTM D297)	1.25 - 1.45		Input Value	→
6.2	HARDNESS AT 25 DEG.C, SHORE DUROMETER TYPE A (ASTM D2240)	88 MIN.	POINTS	Input Value	→
6.3	TENSILE STRENGTH (ASTM D1414 & ASTM D412)	1450	PSI	Input Value	→
6.4	ELONGATION, ULTIMATE, MINIMUM	80	%	Input Value	→
6.5	TESILE STRESS (MODULUS) AT 50% ELONGATION	500 MIN.		Input Value	→
6.6	TEMPERATURE RETRACTION, TR-10 (50% ELONGATION AND 10% RETURN) (ASTM D1414 & ASTM D1329)	-43 DEG.C MAX.		Input Value	→
6.7	AIR AGED 168 HRS AT 70 DEG.C				
6.7.1	HARDNESS CHANGE (ASTM D2240)	0 - +5	POINTS	Input Value	→
6.7.2	TESILE STRENGTH CHANGE, MAX. (ASTM D1414 & ASTM D412)	-10	%	Input Value	→
6.7.3	ELONGATION CHANGE, MAX.	-15	%	Input Value	→
6.7.4	COMPRESSIONSET AT 25 % COMPRESSION (ASTM D1414 & METHOD B OF ASTM D395)	35		Input Value	→
6.8	OIL AGED 168 HRS AT 70 DEG.C IN OIL MIL-H-5606				
6.8.1	HARDNESS CHANGE (ASTM D2240)	-5 TO +5	POINTS	Input Value	→
6.8.2	TESILE STRENGTH CHANGE, MAX. (ASTM D1414-6 & ASTM D412)	-15	%	Input Value	→
6.8.3	ELONGATION CHANGE, MAX.	-20	%	Input Value	→
6.8.4	TEMPERATURE RETRACTION	-39.5 DEG.C MAX.		Input Value	→
6.8.5	COMPRESSIONSET AT 25 % COMPRESSION (ASTM D1414-9 & METHOD B OF ASTM D395)	25		Input Value	→
6.8.6	VOLUME CHANGE	=1 TO +8	%	Input Value	→
7	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
8	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
9	CERTIFICATION	Material Test Certificate (MTC). MTC to include test report for 6.1 to 6.8 above.	Y	Confirm to supply	→
10	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
11	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97011201297
ITEM NAME O-RING, MS28775-008
ITEM PART NO P/N 230079002
INTERNATIONAL EQUIVALENT MS28775-008

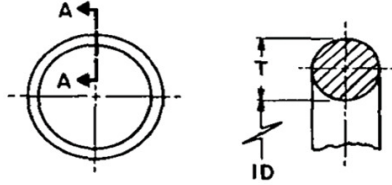


SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	008	-	To confirm	→
3	ID (Min.)	0.171 (4.34)	IN (MM)	Input Value	→
4	ID (Max.)	0.181 (4.60)	IN (MM)	Input Value	→
5	T (Min.)	0.067 (1.702)	IN (MM)	Input Value	→
6	T (Max.)	0.073 (1.854)	IN (MM)	Input Value	→
7	WEIGHT	0.000064	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97011201300
ITEM NAME O-RING, MS28775-009
ITEM PART NO P/N 137604142, 230079003
INTERNATIONAL EQUIVALENT MS28775-009

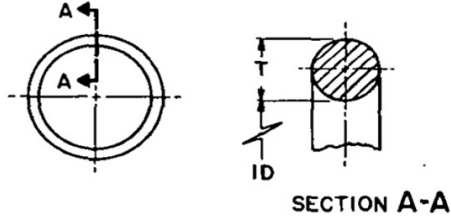


SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	009	-	To confirm	→
3	ID (Min.)	0.203 (5.16)	IN (MM)	Input Value	→
4	ID (Max.)	0.213 (5.41)	IN (MM)	Input Value	→
5	T (Min.)	0.067 (1.702)	IN (MM)	Input Value	→
6	T (Max.)	0.073 (1.854)	IN (MM)	Input Value	→
7	WEIGHT	0.00073	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

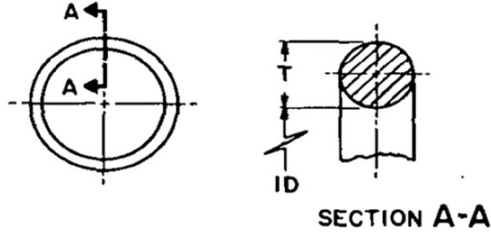
ITEM CODE	W97011201327
ITEM NAME	O-RING, MS28775-014
ITEM PART NO	P/N 230079008
INTERNATIONAL EQUIVALENT	MS28775-014



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	014	-	To confirm	→
3	ID (Min.)	0.484 (12.29)	IN (MM)	Input Value	→
4	ID (Max.)	0.494 (12.55)	IN (MM)	Input Value	→
5	T (Min.)	0.067 (1.702)	IN (MM)	Input Value	→
6	T (Max.)	0.073 (1.854)	IN (MM)	Input Value	→
7	WEIGHT	0.00014	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

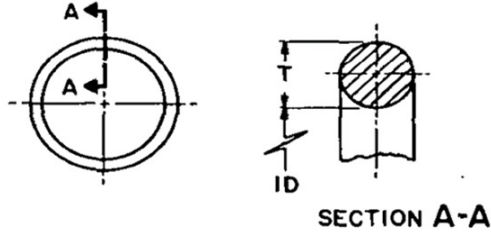
ITEM CODE W97011201351
ITEM NAME O-RING, MS28775-018
ITEM PART NO P/N 230079012
INTERNATIONAL EQUIVALENT MS28775-018



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	018	-	To confirm	→
3	ID (Min.)	0.736 (18.694)	IN (MM)	Input Value	→
4	ID (Max.)	0.744 (18.898)	IN (MM)	Input Value	→
5	T (Min.)	0.067 (1.702)	IN (MM)	Input Value	→
6	T (Max.)	0.073 (1.854)	IN (MM)	Input Value	→
7	WEIGHT	0.0002	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

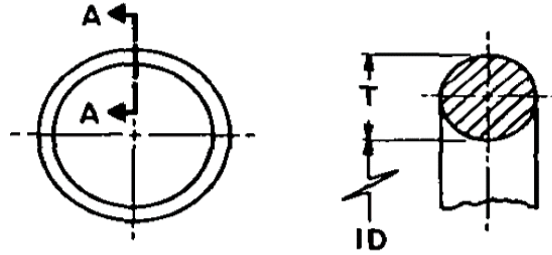
ITEM CODE W97011201378
ITEM NAME O-RING, MS28775-022
ITEM PART NO P/N 137623170
INTERNATIONAL EQUIVALENT MS28775-022



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	022	-	To confirm	→
3	ID (Min.)	0.983 (24.968)	IN (MM)	Input Value	→
4	ID (Max.)	0.995 (25.273)	IN (MM)	Input Value	→
5	T (Min.)	0.067 (1.702)	IN (MM)	Input Value	→
6	T (Max.)	0.073 (1.854)	IN (MM)	Input Value	→
7	WEIGHT	0.00027	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
	VENDOR REMARKS				

**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE W97011201386
 ITEM NAME O-RING, MS28775-023
 ITEM PART NO P/N 230079017
 INTERNATIONAL EQUIVALENT MS28775-023



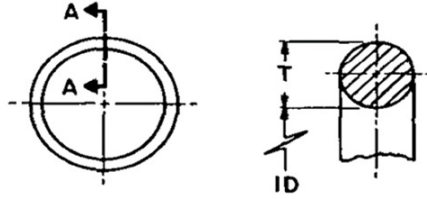
SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	023	-	To confirm	→
3	ID (Min.)	1.045 (26.543)	IN (MM)	Input Value	→
4	ID (Max.)	1.057 (26.848)	IN (MM)	Input Value	→
5	T (Min.)	0.067 (1.702)	IN (MM)	Input Value	→
6	T (Max.)	0.073 (1.854)	IN (MM)	Input Value	→
7	WEIGHT	0.00028	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→

13	VENDOR REMARKS
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TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97011201408
ITEM NAME O-RING, MS28775-025
ITEM PART NO P/N 230079019
INTERNATIONAL EQUIVALENT MS28775-025

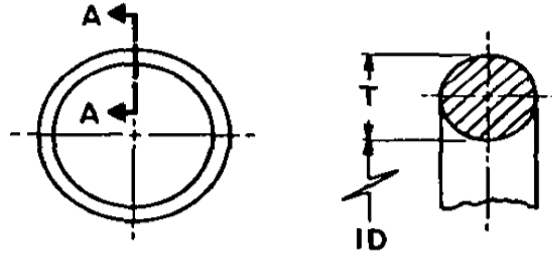


SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	025	-	To confirm	→
3	ID (Min.)	1.17 (29.72)	IN (MM)	Input Value	→
4	ID (Max.)	1.182 (30.02)	IN (MM)	Input Value	→
5	T (Min.)	0.067 (1.702)	IN (MM)	Input Value	→
6	T (Max.)	0.073 (1.854)	IN (MM)	Input Value	→
7	WEIGHT	0.00031	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
	VENDOR REMARKS				

**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE W97011201416
 ITEM NAME O-RING, MS28775-026
 ITEM PART NO P/N 230079020
 INTERNATIONAL EQUIVALENT MS28775-026



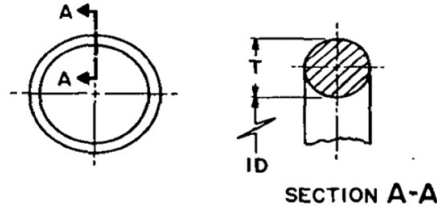
SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	026	-	To confirm	→
3	ID (Min.)	1.233 (31.318)	IN (MM)	Input Value	→
4	ID (Max.)	1.245 (31.623)	IN (MM)	Input Value	→
5	T (Min.)	0.067 (1.702)	IN (MM)	Input Value	→
6	T (Max.)	0.073 (1.854)	IN (MM)	Input Value	→
7	WEIGHT	0.00033	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275 ° - 54 ° to + 135 °	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→

13	VENDOR REMARKS
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TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

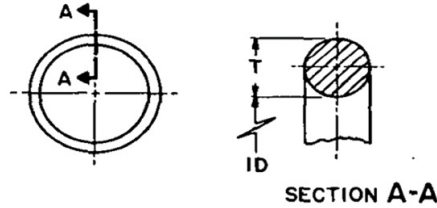
ITEM CODE	W97011201467
ITEM NAME	O-RING, MS28775-116
ITEM PART NO	P/N 230079046
INTERNATIONAL EQUIVALENT	MS28775-116



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	116	-	To confirm	→
3	ID (Min.)	0.732 (18.59)	IN (MM)	Input Value	→
4	ID (Max.)	0.742 (18.85)	IN (MM)	Input Value	→
5	T (Min.)	0.100 (2.540)	IN (MM)	Input Value	→
6	T (Max.)	0.106 (2.692)	IN (MM)	Input Value	→
7	WEIGHT	0.00046	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

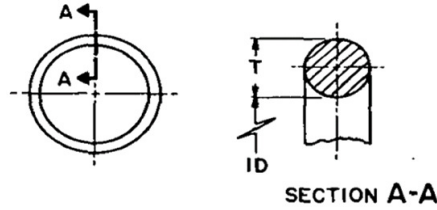
ITEM CODE	W97011201513
ITEM NAME	O-RING, MS28775-124
ITEM PART NO	P/N 137602128, 230079054
INTERNATIONAL EQUIVALENT	MS28775-124



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	124	-	To confirm	→
3	ID (Min.)	1.231 (31.27)	IN (MM)	Input Value	→
4	ID (Max.)	1.243 (31.57)	IN (MM)	Input Value	→
5	T (Min.)	0.100 (2.54)	IN (MM)	Input Value	→
6	T (Max.)	0.106 (2.692)	IN (MM)	Input Value	→
7	WEIGHT	0.00073	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275 ° - 54 ° to + 135 °	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

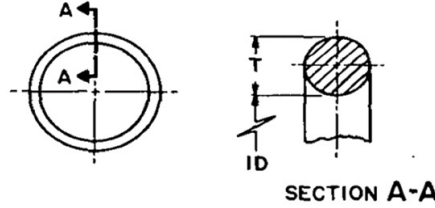
ITEM CODE	W97011201521
ITEM NAME	O-RING, MS28775-126
ITEM PART NO	P/N 127608431, 230079056
INTERNATIONAL EQUIVALENT	MS28775-126



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	126	-	To confirm	→
3	ID (Min.)	1.356(34.44)	IN (MM)	Input Value	→
4	ID (Max.)	1.368 (34.75)	IN (MM)	Input Value	→
5	T (Min.)	0.100 (2.540)	IN (MM)	Input Value	→
6	T (Max.)	0.106 (2.692)	IN (MM)	Input Value	→
7	WEIGHT	0.0008	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

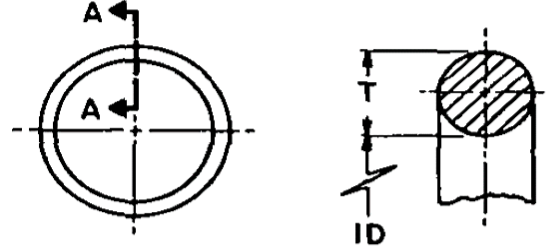
ITEM CODE W97011201556
 ITEM NAME O-RING, MS28775-132
 ITEM PART NO P/N 230079062
 INTERNATIONAL EQUIVALENT MS28775-132



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	132	-	To confirm	→
3	ID (Min.)	1.727 (43.87)	IN (MM)	Input Value	→
4	ID (Max.)	1.747 (44.37)	IN (MM)	Input Value	→
5	T (Min.)	0.100 (2.54)	IN (MM)	Input Value	→
6	T (Max.)	0.160 (2.692)	IN (MM)	Input Value	→
7	WEIGHT	0.00101	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275 ° - 54 ° to + 135 °	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE W97011201572
 ITEM NAME O-RING, MS28775-136
 ITEM PART NO P/N 230079066
 INTERNATIONAL EQUIVALENT MS28775-136

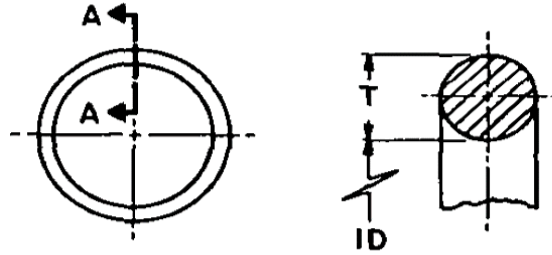


SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	136	-	To confirm	→
3	ID (Min.)	1.977 (50.22)	IN (MM)	Input Value	→
4	ID (Max.)	1.997 (50.72)	IN (MM)	Input Value	→
5	T (Min.)	0.100 (2.54)	IN (MM)	Input Value	→
6	T (Max.)	0.106 (2.692)	IN (MM)	Input Value	→
7	WEIGHT	0.00252	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275 ° - 54 ° to + 135 °	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97011201645
ITEM NAME O-RING, MS28775-145
ITEM PART NO P/N 230079075
INTERNATIONAL EQUIVALENT MS28775-145

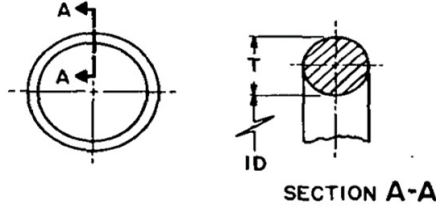


SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	145	-	To confirm	→
3	ID (Min.)	2.54 (64.516)	IN (MM)	Input Value	→
4	ID (Max.)	2.56 (65.024)	IN (MM)	Input Value	→
5	T (Min.)	0.100 (2.54)	IN (MM)	Input Value	→
6	T (Max.)	0.106 (2.692)	IN (MM)	Input Value	→
7	WEIGHT	0.00319	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

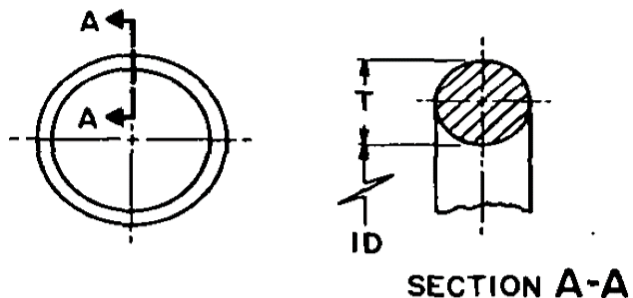
ITEM CODE	W97011201688
ITEM NAME	O-RING, MS28775-213
ITEM PART NO	P/N 127623662
INTERNATIONAL EQUIVALENT	MS28775-213



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	213	-	To confirm	→
3	ID (Min.)	0.915(23.24)	IN (MM)	Input Value	→
4	ID (Max.)	0.927 (23.55)	IN (MM)	Input Value	→
5	T (Min.)	0.135 (3.429)	IN (MM)	Input Value	→
6	T (Max.)	0.143 (3.632)	IN (MM)	Input Value	→
7	WEIGHT	0.00105	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE W97011201696
 ITEM NAME O-RING, MS28775-215
 ITEM PART NO P/N 137602129, 230079105
 INTERNATIONAL EQUIVALENT MS28775-215

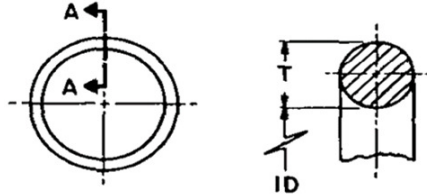


SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	215	-	To confirm	→
3	ID (Min.)	1.040 (26.42)	IN (MM)	Input Value	→
4	ID (Max.)	1.052 (26.72)	IN (MM)	Input Value	→
5	T (Min.)	0.135 (3.429)	IN (MM)	Input Value	→
6	T (Max.)	0.143 (3.632)	IN (MM)	Input Value	→
7	WEIGHT	0.00118	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275 ° - 54 ° to + 135 °	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97011201793
ITEM NAME O-RING, MS28775-231
ITEM PART NO P/N 230079121

INTERNATIONAL EQUIVALENT MS28775-231



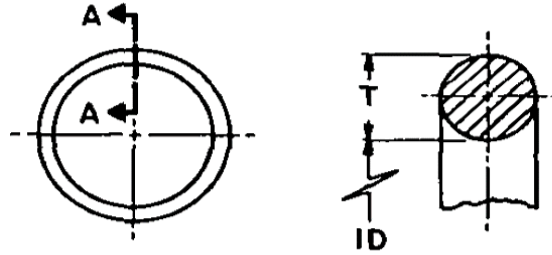
SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	231	-	To confirm	→
3	ID (Min.)	2.599 (66.01)	IN (MM)	Input Value	→
4	ID (Max.)	2.619 (66.52)	IN (MM)	Input Value	→
5	T (Min.)	0.135 (3.429)	IN (MM)	Input Value	→
6	T (Max.)	0.143 (3.632)	IN (MM)	Input Value	→
7	WEIGHT	0.00274	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC) to include Test report of point 8.1 to 8.8.4	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→

13	VENDOR REMARKS
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**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE W97011201823
 ITEM NAME O-RING, MS28775-235
 ITEM PART NO P/N 230079125
 INTERNATIONAL EQUIVALENT MS28775-235

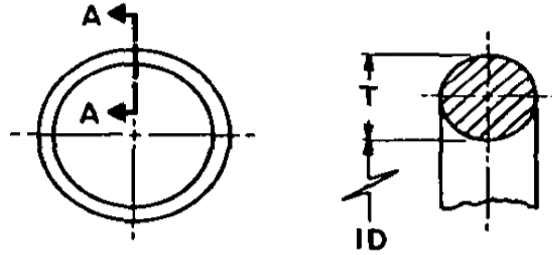


SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	235	-	To confirm	→
3	ID (Min.)	3.094 (78.59)	IN (MM)	Input Value	→
4	ID (Max.)	3.124 (79.35)	IN (MM)	Input Value	→
5	T (Min.)	0.135 (3.429)	IN (MM)	Input Value	→
6	T (Max.)	0.143 (3.632)	IN (MM)	Input Value	→
7	WEIGHT	0.00323	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE W97011201890
 ITEM NAME O-RING, MS28775-326
 ITEM PART NO P/N 127604184
 INTERNATIONAL EQUIVALENT MS28775-326



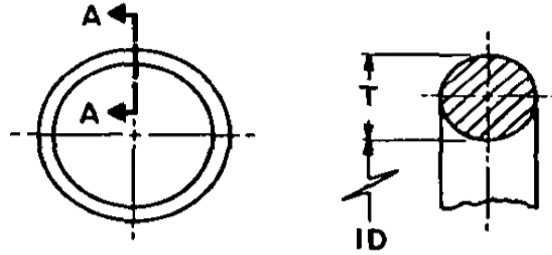
SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	326	-	To confirm	→
3	ID (Min.)	1.59 (40.386)	IN (MM)	Input Value	→
4	ID (Max.)	1.61 (40.894)	IN (MM)	Input Value	→
5	T (Min.)	0.205 (5.207)	IN (MM)	Input Value	→
6	T (Max.)	0.215 (5.461)	IN (MM)	Input Value	→
7	WEIGHT	0.00906	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275 ° - 54 ° to + 135 °	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→

13	VENDOR REMARKS
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**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE W97011201912
 ITEM NAME O-RING, MS28775-338
 ITEM PART NO P/N 137605323
 INTERNATIONAL EQUIVALENT MS28775-338



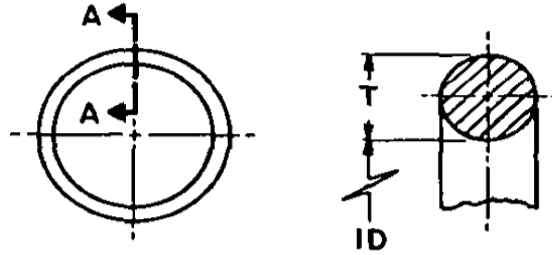
SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	338	-	To confirm	→
3	ID (Min.)	3.085 (78.36)	IN (MM)	Input Value	→
4	ID (Max.)	3.115 (79.12)	IN (MM)	Input Value	→
5	T (Min.)	0.205 (5.21)	IN (MM)	Input Value	→
6	T (Max.)	0.215 (5.46)	IN (MM)	Input Value	→
7	WEIGHT	0.00752	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→

13	VENDOR REMARKS
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**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE W97011201971
 ITEM NAME O-RING, MS28775-454
 ITEM PART NO P/N 230079269
 INTERNATIONAL EQUIVALENT MS28775-454



SECTION A-A

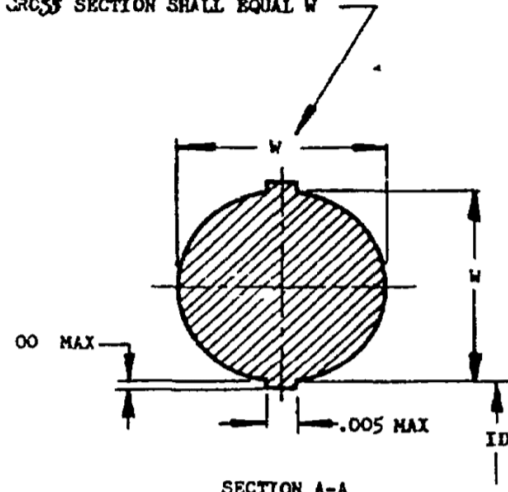
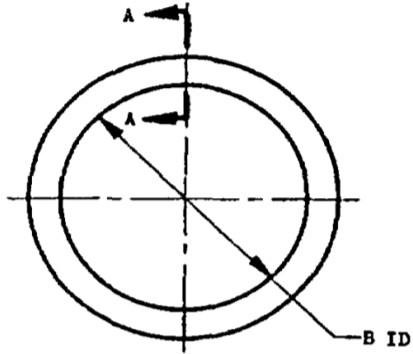
SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	454	-	To confirm	→
3	ID (Min.)	12.445 (316.10)	IN (MM)	Input Value	→
4	ID (Max.)	12.505 (317.63)	IN (MM)	Input Value	→
5	T (Min.)	0.269 (6.83)	IN (MM)	Input Value	→
6	T (Max.)	0.281 (7.14)	IN (MM)	Input Value	→
7	WEIGHT	0.04964	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE
ITEM NAME
ITEM PART NO
INTERNATIONAL EQUIVALENT

W97011201998
O-RING, MS28778-20
P/N 157618232
MS28778-20

ALL DIMETERS OF CROSS SECTION SHALL EQUAL W

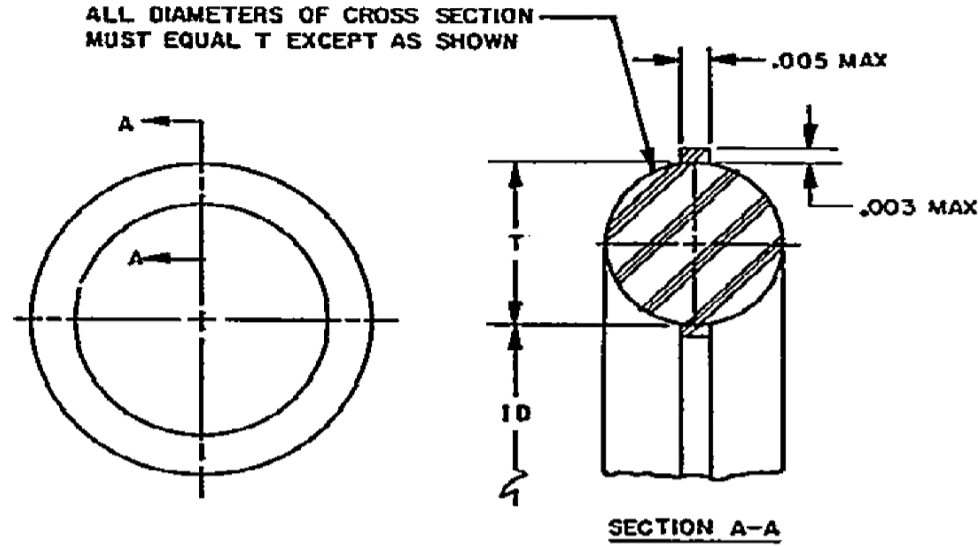


SECTION A-A
ENLARGED

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28778	-	To confirm	→
2	DASH NO	20	-	To confirm	→
3	TUBE OD	1 - 1/4	INCH	Input Value	→
4	INNER DIA	1.475 +/- 0.010 (37.465+/- 0.254)	IN (MM)	Input Value	→
5	CROSS SECTION DIA	0.118 +/- 0.004 (2.997 +/- 0.102)	IN (MM)	Input Value	→
6	MATERIAL	ACRYLONITRILE BUTADIENE RUBBER (NITRILE / NBR RUBBER)	-	To confirm	→
7	HARDNESS, SHORE DUROMETER TYPE A	88 MIN.	POINTS	Input Value	→
8	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
9	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
10	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
11	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
12	VENDOR REMARKS				

**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

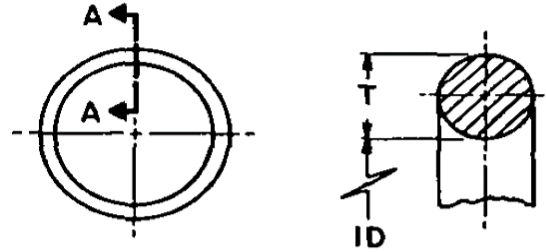
ITEM CODE W97011202056
 ITEM NAME O-RING, MS9021-276
 ITEM PART NO P/N 137605126
 INTERNATIONAL EQUIVALENT MS9021-276



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS9021	-	To confirm	→
2	DASH NO	276	-	To confirm	→
3	ID (Min.)	10.954 (278.232)	IN (MM)	Input Value	→
4	ID (Max.)	11.014 (279.756)	IN (MM)	Input Value	→
5	T (Min.)	0.135 (3.429)	IN (MM)	Input Value	→
6	T (Max.)	0.143 (3.632)	IN (MM)	Input Value	→
7	WEIGHT	0.011	KG	Input Value	→
8	MATERIAL	NITRILE: Butadiene-Acrylonitrile (NBR) Rubber	-	To confirm	→
9	HARDNESS, TYPE A	60 - 70	POINTS	Input Value	→
10	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
11	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
12	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
13	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
14	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97011202064
 ITEM NAME O-RING, MS28775-345
 ITEM PART NO P/N 137604122
 INTERNATIONAL EQUIVALENT MS28775-345

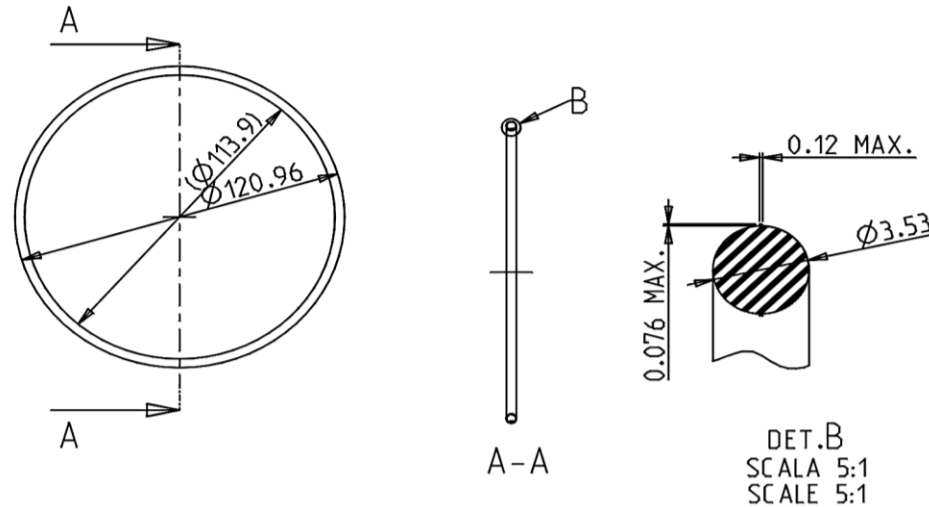


SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	345	-	To confirm	→
3	ID (Min.)	3.960 (100.58)	IN (MM)	Input Value	→
4	ID (Max.)	3.990 (101.35)	IN (MM)	Input Value	→
5	T (Min.)	0.205 (5.21)	IN (MM)	Input Value	→
6	T (Max.)	0.215 (5.46))	IN (MM)	Input Value	→
7	WEIGHT	0.0095	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275 ° - 54 ° to + 135 °	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	Minimum 10 years	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

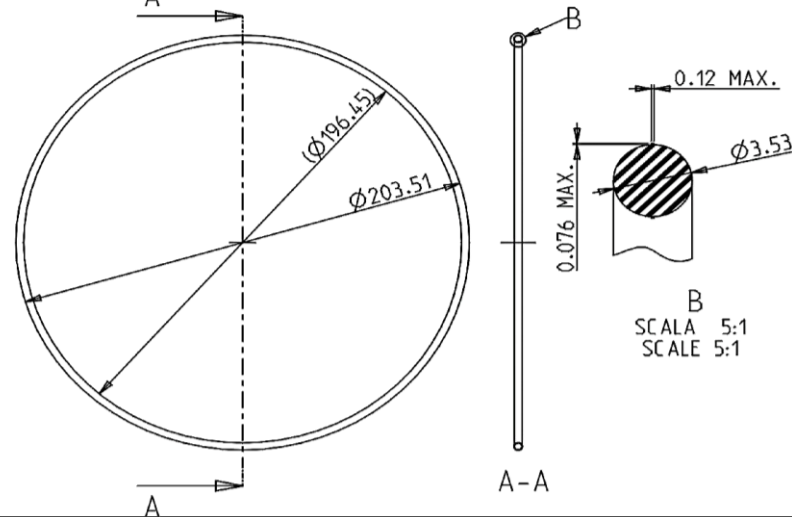
ITEM CODE W97011202080
 ITEM NAME O RING MIL-R-83248-1-246
 ITEM PART NO P/N 137601127
 INTERNATIONAL EQUIVALENT M83248-1-246



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MIL-R-83248/1	-	To confirm	→
2	DASH NO	246	-	To confirm	→
3	INNER DIA	6.73 (171.05)	IN (MM)	Input Value	→
4	OUTER DIA	7.012 (178.11)	IN (MM)	Input Value	→
5	CROSS SECTION DIA	0.139 (3.53)	IN (MM)	Input Value	→
6	NOTCH HEIGHT, MAX.	0.00299 (0.076)	IN (MM)	Input Value	→
7	NOTCH WIDTH, MAX.	0.0046 (0.117)	IN (MM)	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-R-83248 Type 1 Class 1		Specify Spec.	→
8.1	TEMPERATURE	Min: -25°C Max: +230°C	C	Input Value	→
8.2	MATERIAL	RUBBER FLUOROCARBON 75 CLASS FPM	-	To confirm	→
8.3	HARDNESS, SHORE DUROMETER TYPE A	70.0 MINIMUM AND 80.0 MAXIMUM	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	10.3	MPA	Input Value	→
8.5	ELONGATION % (MAXIMUM)	125	%	Input Value	→
9	SHELF LIFE	Minimum 10 years	-	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

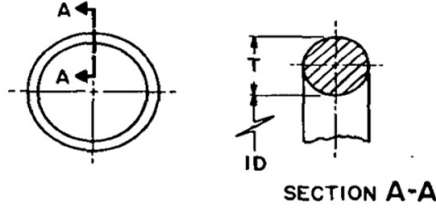
ITEM CODE W97011202110
 ITEM NAME O RING MIL-R-83248-1-265
 ITEM PART NO P/N 137601123
 INTERNATIONAL EQUIVALENT M83248-1-265



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MIL-R-83248/1	-	To confirm	→
2	DASH NO	265	-	To confirm	→
3	INNER DIA	7.734 (196.45)	IN (MM)	Input Value	→
4	OUTER DIA	8.012 (203.51)	IN (MM)	Input Value	→
5	CROSS SECTION DIA	0.139 (3.53)	IN (MM)	Input Value	→
6	NOTCH HEIGHT, MAX.	0.00299 (0.076)	IN (MM)	Input Value	→
7	NOTCH WIDTH, MAX.	0.0046 (0.117)	IN (MM)	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-R-83248 Type 1 Class 1		Specify Spec.	→
8.1	TEMPERATURE	Min: -25°C Max: +230°C	C	Input Value	→
8.2	MATERIAL	RUBBER FLUOROCARBON 75 CLASS FPM	-	To confirm	→
8.3	HARDNESS, SHORE DUROMETER TYPE A	70.0 MINIMUM AND 80.0 MAXIMUM	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	10.3	MPA	Input Value	→
8.5	ELONGATION % (MAXIMUM)	125	%	Input Value	→
9	SHELF LIFE	Minimum 10 years	-	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

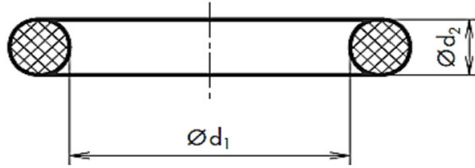
ITEM CODE W97011202145
 ITEM NAME O-RING, MS28775-445
 ITEM PART NO P/N 137605124
 INTERNATIONAL EQUIVALENT MS28775-445



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	445	-	To confirm	→
3	ID (Min.)	7.945(201.80)	IN (MM)	Input Value	→
4	ID (Max.)	8.005 (203.33)	IN (MM)	Input Value	→
5	T (Min.)	0.269 (6.83)	IN (MM)	Input Value	→
6	T (Max.)	0.281 (7.14)	IN (MM)	Input Value	→
7	WEIGHT	0.03212	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE	W97011202188
ITEM NAME	O RING,HITEC PRECISION
ITEM PART NO	P/N 230020102
INTERNATIONAL EQUIVALENT	OR 201 P 60 OF ANGST & PFISTER MAKE



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	AS 568A / BS1806	-	To confirm	→
2	INNER DIA (D1)	120.7	MM	Input Value	→
3	CROSS SECTION DIA (D2)	5.34	MM	Input Value	→
4	MATERIAL	SYNTHETIC RUBBER (NBR) COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
5	HARDNESS, TYPE A (MINIMUM)	60	POINTS	Input Value	→
6	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
7	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
8	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
9	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

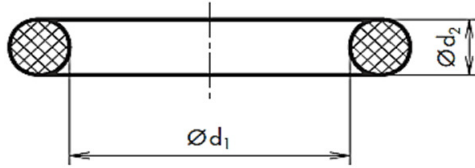
ITEM CODE W97011202196
ITEM NAME O RING, HITECH PRECISION
ITEM PART NO P/N 230020107
INTERNATIONAL EQUIVALENT OR 206 P60 OF ANGST & PFISTER.



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	AS 568A / BS1806	-	To confirm	→
2	INNER DIA (D1)	127	MM	Input Value	→
3	CROSS SECTION DIA (D2)	5.34	MM	Input Value	→
4	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
5	HARDNESS, TYPE A (MINIMUM)	60	POINTS	Input Value	→
6	SHELF LIFE	Minimum 10 years	Y	To confirm	→
7	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
8	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
9	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

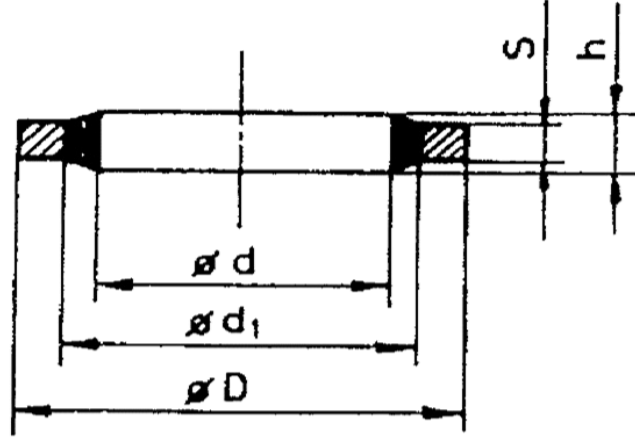
ITEM CODE	W97011202293
ITEM NAME	O RING,HITEC PRECISION
ITEM PART NO	P/N 127697592
INTERNATIONAL EQUIVALENT	OR 3050 P 90 OF ANGST & PFISTER MAKE



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	AS 568A / BS1806	-	To confirm	→
2	INNER DIA (D1)	12.37	MM	Input Value	→
3	CROSS SECTION DIA (D2)	2.62	MM	Input Value	→
4	MATERIAL	SYNTHETIC RUBBER (NBR) COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
5	HARDNESS, TYPE A (MINIMUM)	90	POINTS	Input Value	→
6	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
7	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
8	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
9	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

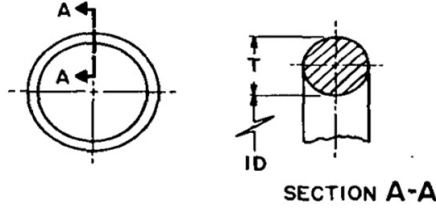
ITEM CODE W97011202382
ITEM NAME SEAL, BAGUES B.S. D42
ITEM PART NO P/N 230079474
INTERNATIONAL EQUIVALENT BONDED SEAL BAGUES D42



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	BONDED SEALS (DOWTY, POLYPAC, LE JOINT FRANCAIS ETC.)	-	To confirm	→
2	APPLICATION THREAD SIZE	M42			
3	INNER DIA (d)	43 +/- 0.1	MM	Input Value	→
4	SEAL DIA (d1)	45.6 +/- 0.1	MM	Input Value	→
5	OUTER DIA (D)	54 (+ 0.1 / - 0.35)	MM	Input Value	→
6	HEIGHT (h)	3.3	MM	Input Value	→
7	SEAL WIDTH (S)	2.5	MM	Input Value	→
8	WORKING PRESSURE	600	BAR	Input Value	
9	WASHER MATERIAL	STAINLESS STEEL	C	Input Value	→
10	WASHER FINISH	PASSIVATED	-	To confirm	→
11	SEAL MATERIAL	RUBBER NBR: SHORE HARDNESS A 70 - 90		Specify Spec.	→
12	Shelf life	minimum 10 years	-	To confirm	→
13	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
14	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
15	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

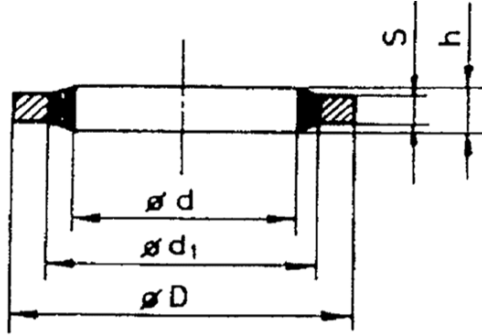
ITEM CODE W97011202420
 ITEM NAME O-RING, AN6230-B27
 (MS28775-249)
 ITEM PART NO P/N 230079139
 INTERNATIONAL EQUIVALENT AN6230-B27; MS28775-249



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	249	-	To confirm	→
3	ID (Min.)	4.844(123.0376)	IN (MM)	Input Value	→
4	ID (Max.)	4.874 (123.7996)	IN (MM)	Input Value	→
5	T (Min.)	0.135 (3.429)	IN (MM)	Input Value	→
6	T (Max.)	0.143 (3.632)	IN (MM)	Input Value	→
7	WEIGHT	0.00708	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275 ° - 54 ° to + 135 °	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

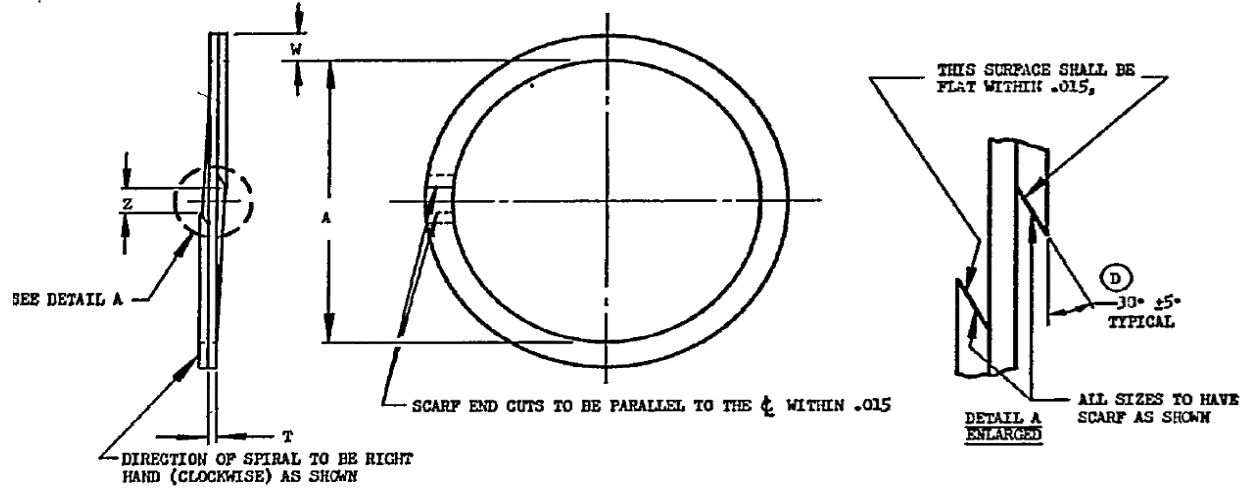
ITEM CODE	W97011202447
ITEM NAME	SEAL, BAGUES B.S. B12
ITEM PART NO	P/N 137697520, 230079452
INTERNATIONAL EQUIVALENT	BONDED SEAL BAGUES B12



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	BONDED SEALS (DOWTY, POLYPAC, LE JOINT FRANCAIS ETC.)	-	To confirm	→
2	APPLICATION THREAD SIZE	M12			
3	INNER DIA (d)	12.7 +/- 0.1	MM	Input Value	→
4	SEAL DIA (d1)	14.1 +/- 0.1	MM	Input Value	→
5	OUTER DIA (D)	19 (+ 0.1 / - 0.2)	MM	Input Value	→
6	HEIGHT (h)	2.3	MM	Input Value	→
7	SEAL WIDTH (S)	1.5	MM	Input Value	→
8	WORKING PRESSURE	600	BAR	To confirm	→
9	WORKING TEMPERATURE	-20 TO +120	DEG. C	To confirm	→
10	WASHER MATERIAL	STAINLESS STEEL	-	To confirm	→
11	WASHER FINISH	PASSIVATED	-	To confirm	→
12	SEAL MATERIAL	RUBBER NBR: SHORE HARDNESS A 70 - 90	-	Specify Spec.	→
13	SHELF LIFE	Minimum 10 years	-	To confirm	→
14	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
15	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

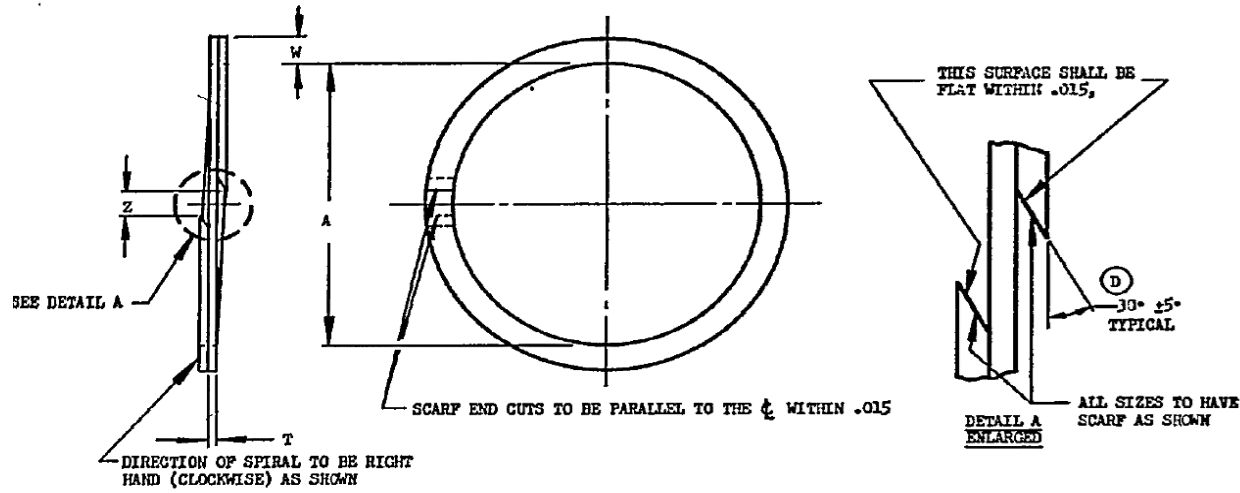
ITEM CODE W97013601012
ITEM NAME RING, SPLIT, MS28782-29
ITEM PART NO P/N 127608129
INTERNATIONAL EQUIVALENT MS28782-29



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28782	-	To confirm →	
2	DASH NO	29	-	To confirm →	
3	INNER DIA (A)	1.625 (41.275)	IN (MM)	Input Value →	
4	THICKNESS (T), MAX.	0.036 (.914)	IN (MM)	Input Value →	
5	THICKNESS (T), MIN.	0.031 (.787)	IN (MM)	Input Value →	
6	WIDTH (W), MAX.	0.186 (4.724)	IN (MM)	Input Value →	
7	WIDTH (W), MIN.	0.184 (4.674)	IN (MM)	Input Value →	
8	GAP (Z), MAX.	0.188 (4.775)	IN (MM)	Input Value →	
9	GAP (Z), MIN.	0.062 (1.575)	IN (MM)	Input Value →	
10	MATERIAL	TETRAFLUOROETHYLENE (TFE)	-	To confirm →	
11	MATERIAL CONFORMING TO SPEC	MIL-R-8791	-	Specify Spec. →	
12	COLOUR	WHITE	-	To confirm →	
13	MATERIAL PROPERTIES (to be reported in MTC)		-	To confirm →	
13.1	TENSILE STRENGTH, MIN.	3000	PSI	To confirm →	
13.2	ELONGATION, MIN.	75%	%	To confirm →	
13.3	STIFFNESS, MIN.	45000	PSI	Input Value →	
13.4	WATER ABSORPTION	< 0.005 %	%	Input Value →	
13.5	SPECIFIC GRAVITY	2.150 - 2.22	-	Input Value →	
13.6	POROSITY	NIL	-	To confirm →	
14	SHELF LIFE	UNLIMITED	-	To confirm →	
15	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm →	
16	CERTIFICATION	Material Test Certificate (MTC). MTC to include test report for 13.1 to 13.6 above.	Y	Confirm to supply →	
17	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply →	
18	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

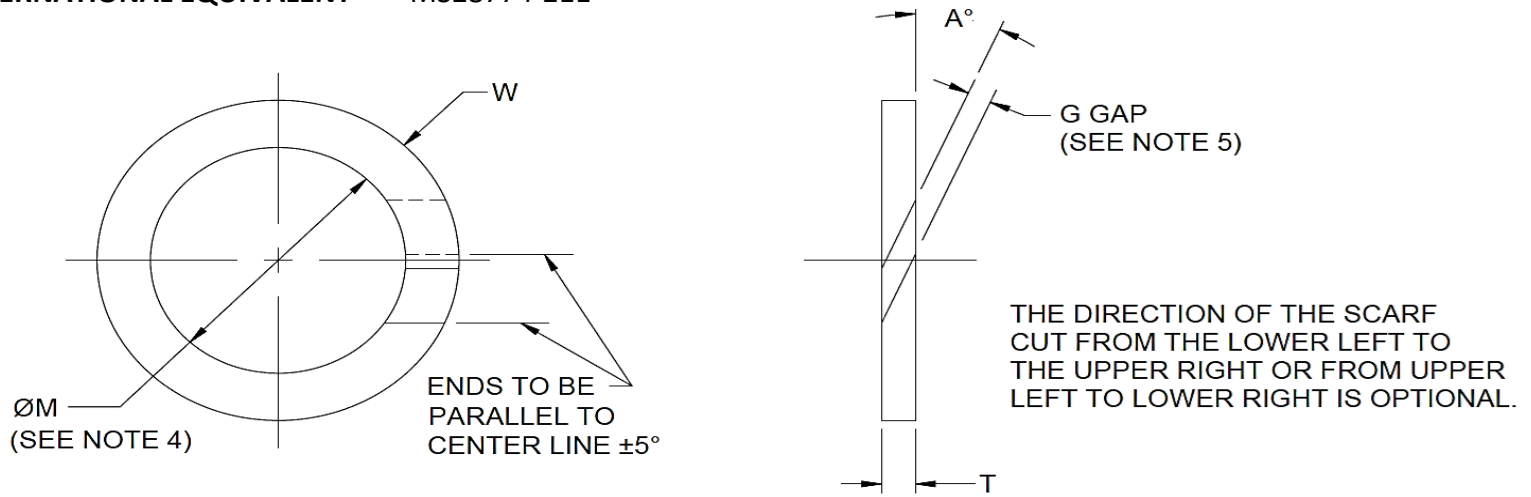
ITEM CODE W97013601055
ITEM NAME RING, SPLIT, MS28782-72
ITEM PART NO P/N 137605127
INTERNATIONAL EQUIVALENT MS28782-72



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28782	-	To confirm →	
2	DASH NO	72	-	To confirm →	
3	INNER DIA (A)	8.000 (203.200)	IN (MM)	Input Value →	
4	THICKNESS (T), MAX.	0.052 (1.321)	IN (MM)	Input Value →	
5	THICKNESS (T), MIN.	0.046 (1.168)	IN (MM)	Input Value →	
6	WIDTH (W), MAX.	0.239 (6.071)	IN (MM)	Input Value →	
7	WIDTH (W), MIN.	0.237 (6.020)	IN (MM)	Input Value →	
8	GAP (Z), MAX.	0.312 (7.925)	IN (MM)	Input Value →	
9	GAP (Z), MIN.	0.188 (4.775)	IN (MM)	Input Value →	
10	MATERIAL	TETRAFLUOROETHYLENE (TFE)	-	To confirm →	
11	MATERIAL CONFORMING TO SPEC	MIL-R-8791	-	Specify Spec. →	
12	COLOUR	WHITE	-	To confirm →	
13	MATERIAL PROPERTIES (to be reported in MTC)		-	To confirm →	
13.1	TENSILE STRENGTH, MIN.	3000	PSI	To confirm →	
13.2	ELONGATION, MIN.	75%	%	To confirm →	
13.3	STIFFNESS, MIN.	45000	PSI	Input Value →	
13.4	WATER ABSORPTION	< 0.005 %	%	Input Value →	
13.5	SPECIFIC GRAVITY	2.150 - 2.22	-	Input Value →	
13.6	POROSITY	NIL	-	To confirm →	
14	SHELF LIFE	UNLIMITED	-	To confirm →	
15	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm →	
16	CERTIFICATION	Material Test Certificate (MTC). MTC to include test report for 13.1 to 13.6 above.	Y	Confirm to supply →	
17	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply →	
18	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

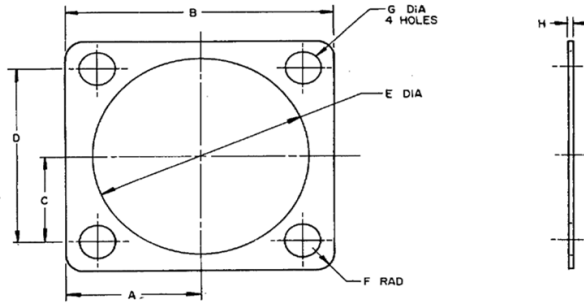
ITEM CODE W97013601071
ITEM NAME RING, BACKUP, MS28774-211
ITEM PART NO P/N 127608167
INTERNATIONAL EQUIVALENT MS28774-211



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28774	-	To confirm →	
2	DASH NO	211	-	To confirm →	
3	INNER DIA (M)	0.828 (21.031)	IN (MM)	Input Value →	
4	THICKNESS (T), MAX	0.052 (1.321)	IN (MM)	Input Value →	
5	THICKNESS (T). MIN	0.045 (1.143)	IN (MM)	Input Value →	
6	WIDTH (W), MAX	0.087 (2.210)	IN (MM)	Input Value →	
7	WIDTH (W), MIN	0.085 (2.159)	IN (MM)	Input Value →	
8	GAP (G), MAX	0.006 (.000)	IN (MM)	Input Value →	
9	GAP (G), MIN.	0.000 (.000)	IN (MM)	Input Value →	
10	CUT ANGLE (A)	22 +0 / -3	DEGREE	Input Value →	
11	MATERIAL	POLYTETRAFLUOROETHYLENE (PTFE)	-	To confirm →	
12	SHELF LIFE	UNLIMITED	-	To confirm →	
13	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm →	
14	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply →	
15	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

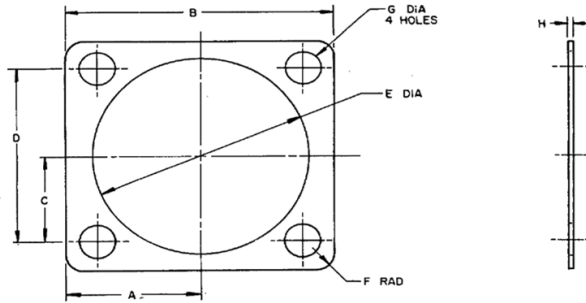
ITEM CODE W97015701146
ITEM NAME GASKET, MS52000-4
ITEM PART NO P/N 1127-37-141
INTERNATIONAL EQUIVALENT MS52000-4



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS52000	-	To confirm	→
2	DASH NO	4	-	To confirm	→
3	CENTRE TO EDGE (A)	0.594 +/-0.01 (15.088 +/-0.254)	IN (MM)	Input Value	→
4	SIDE WIDTH (B)	1.188 +0.016 / -0.0 (30.175 +0.406 / -0.0)	IN (MM)	Input Value	→
5	HOLE DISTANCE FROM CENTRE (C)	0.453 +/-0.01 (11.506 +/-0.254)	IN (MM)	Input Value	→
6	DISTANCE BETWEEN HOLES (D)	0.906 +/-0.01 (23.012 +/-0.254)	IN (MM)	Input Value	→
7	INNER DIA (E)	.875 +0.016 / -0.0 (22.225 +0.406 / -0.0)	IN (MM)	Input Value	→
8	EDGE RADIUS (F)	0.141 +/-0.01 (3.581 +/-0.254)	IN (MM)	Input Value	→
9	HOLE DIA (G)	0.172 +/-0.01 (4.369 +/-0.254)	IN (MM)	Input Value	→
10	THICKNESS (H)	0.031 +/-0.01 (0.787 +/-0.254)	IN (MM)	Input Value	→
11	MATERIAL	SYNTHETIC RUBBER	-	To confirm	→
12	MATERIAL CONFORMING TO SPEC	MIL-R-3065 GRADE SC815 C1E3 PER ASTM D2000	-	Specify Spec.	→
13	COLOUR	BLACK	-	To confirm	→
14	MATERIAL PROPERTIES (to be reported in MTC)	SC815-C1 E3 (Equivalent grade as per ASTM D2000 : M4 BC810-C12 EO34)	-	To confirm	→
14.1	SC815 (BC810)	MEDIUM VOLUME SWELL AND OIL RESISTANT (Chloroprene polymers (neoprene), cm)	-	To confirm	→
14.1.1	durometer hardness number	80 +/-5	-	To confirm	→
14.1.2	tensile strength, min.	10	MPA	To confirm	→
14.1.3	elongation, min.	100	%	To confirm	→
14.2	C12	RESISTANCE TO OZONE	-	To confirm	→
14.2.1	Change (max)	100	%	Input Value	→
14.3	EO34	RESISTANT TO OIL AGING, 70 HOURS AT 100 DEG C , ASTM OIL NO. IRM 903 (TEST D 471)	-	To confirm	→
14.3.1	Tensile change (max)	-45	%	Input Value	→
14.3.2	Elongation change (max)	-30	%	Input Value	→
14.3.3	Volume change (max)	+80	%	Input Value	→
15	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
16	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
17	CERTIFICATION	Material Test Certificate (MTC). MTC to include test report for 14.1 to 14.3 above.	Y	Confirm to supply	→
18	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
19	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

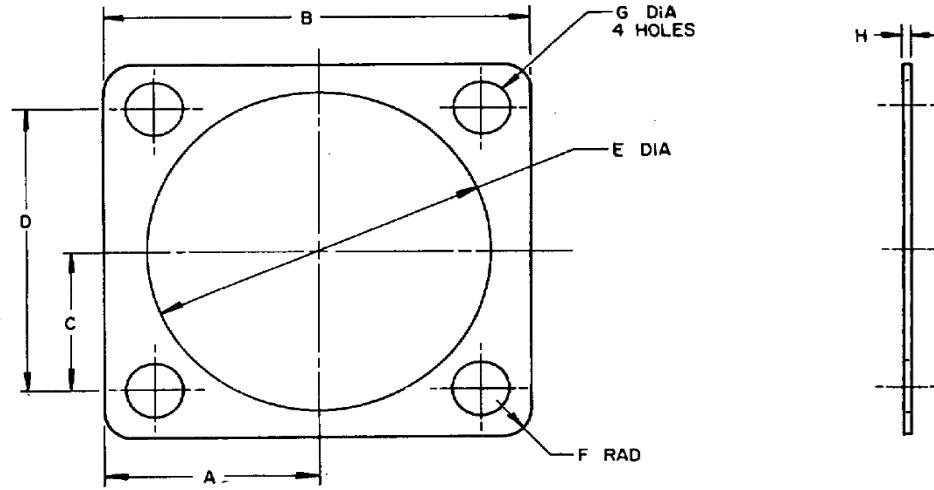
ITEM CODE W97015701189
ITEM NAME GASKET, MS52000-6
ITEM PART NO P/N 127631108
INTERNATIONAL EQUIVALENT MS52000-6



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS52000	-	To confirm	→
2	DASH NO	6	-	To confirm	→
3	CENTRE TO EDGE (A)	0.688 +/-0.01 (17.475 +/-0.254)	IN (MM)	Input Value	→
4	SIDE WIDTH (B)	1.375 +0.016 / -0.0 (34.925 +0.406 / -0.0)	IN (MM)	Input Value	→
5	HOLE DISTANCE FROM CENTRE (C)	0.531 +/-0.01 (13.487 +/-0.254)	IN (MM)	Input Value	→
6	DISTANCE BETWEEN HOLES (D)	1.063 +/-0.01 (27.000 +/-0.254)	IN (MM)	Input Value	→
7	INNER DIA (E)	1.125 +0.016 / -0.0 (28.575 +0.406 / -0.0)	IN (MM)	Input Value	→
8	EDGE RADIUS (F)	0.172 +/-0.01 (4.369 +/-0.254)	IN (MM)	Input Value	→
9	HOLE DIA (G)	0.203 +/-0.01 (5.156 +/-0.254)	IN (MM)	Input Value	→
10	THICKNESS (H)	0.031 +/-0.01 (0.787 +/-0.254)	IN (MM)	Input Value	→
11	MATERIAL	SYNTHETIC RUBBER	-	To confirm	→
12	MATERIAL CONFORMING TO SPEC	MIL-R-3065 GRADE SC815 C1E3 PER ASTM D2000	-	Specify Spec.	→
13	COLOUR	BLACK	-	To confirm	→
14	MATERIAL PROPERTIES (to be reported in MTC)	SC815-C1 E3 (Equivalent grade as per ASTM D2000 : M4 BC810-C12 EO34)	-	To confirm	→
14.1	SC815 (BC810)	MEDIUM VOLUME SWELL AND OIL RESISTANT (Chloroprene polymers (neoprene), cm)	-	To confirm	→
14.1.1	durometer hardness number	80 +/-5	-	To confirm	→
14.1.2	tensile strength, min.	10	MPA	To confirm	→
14.1.3	elongation, min.	100	%	To confirm	→
14.2	C12	RESISTANCE TO OZONE	-	To confirm	→
14.2.1	Change (max)	100	%	Input Value	→
14.3	EO34	RESISTANT TO OIL AGING, 70 HOURS AT 100 DEG C , ASTM OIL NO. IRM 903 (TEST D 471)	-	To confirm	→
14.3.1	Tensile change (max)	-45	%	Input Value	→
14.3.2	Elongation change (max)	-30	%	Input Value	→
14.3.3	Volume change (max)	+80	%	Input Value	→
15	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
16	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
17	CERTIFICATION	Material Test Certificate (MTC). MTC to include test report for 14.1 to 14.3 above.	Y	Confirm to supply	→
18	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
19	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

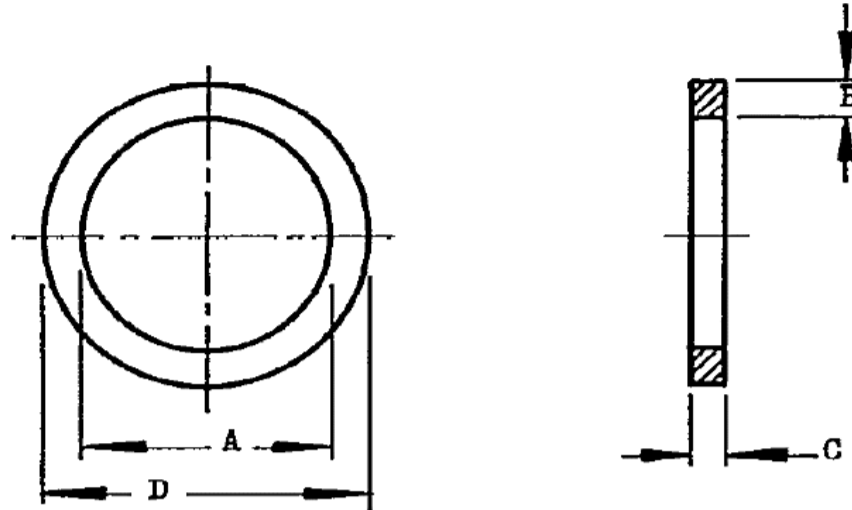
ITEM CODE W97015701286
ITEM NAME GASKET, MS52000-5
ITEM PART NO P/N 112705509
INTERNATIONAL EQUIVALENT MS52000-5



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS52000	-	To confirm	→
2	DASH NO	5	-	To confirm	→
3	CENTRE TO EDGE (A)	0.641 +/-0.01 (16.281 +/-0.254)	IN (MM)	Input Value	→
4	SIDE WIDTH (B)	1.281 +0.016 / -0.0 (32.537 +0.406 / -0.0)	IN (MM)	Input Value	→
5	HOLE DISTANCE FROM CENTRE (C)	0.484 +/-0.01 (12.294 +/-0.254)	IN (MM)	Input Value	→
6	DISTANCE BETWEEN HOLES (D)	0.969 +/-0.01 (24.613 +/-0.254)	IN (MM)	Input Value	→
7	INNER DIA (E)	1.000 +0.016 / -0.0 (25.400 +0.406 / -0.0)	IN (MM)	Input Value	→
8	EDGE RADIUS (F)	0.156 +/-0.01 (3.962 +/-0.254)	IN (MM)	Input Value	→
9	HOLE DIA (G)	0.172 +/-0.01 (4.369 +/-0.254)	IN (MM)	Input Value	→
10	THICKNESS (H)	0.031 +/-0.01 (0.787 +/-0.254)	IN (MM)	Input Value	→
11	MATERIAL	SYNTHETIC RUBBER	-	To confirm	→
12	MATERIAL CONFORMING TO SPEC	MIL-R-3065 GRADE SC815 C1E3 PER ASTM D2000	-	Specify Spec.	→
13	COLOUR	BLACK	-	To confirm	→
14	MATERIAL PROPERTIES (to be reported in MTC)	SC815-C1 E3 (Equivalent grade as per ASTM D2000 : M4 BC810-C12 EO34)	-	To confirm	→
14.1	SC815 (BC810)	MEDIUM VOLUME SWELL AND OIL RESISTANT (Chloroprene polymers (neoprene), cm)	-	To confirm	→
14.1.1	durometer hardness number	80 +/-5	-	To confirm	→
14.1.2	tensile strength, min.	10	MPA	To confirm	→
14.1.3	elongation, min.	100	%	To confirm	→
14.2	C12	RESISTANCE TO OZONE	-	To confirm	→
14.2.1	Change (max)	100	%	Input Value	→
14.3	EO34	RESISTANT TO OIL AGING, 70 HOURS AT 100 DEG C , ASTM OIL NO. IRM 903 (TEST D 471)	-	To confirm	→
14.3.1	Tensile change (max)	-45	%	Input Value	→
14.3.2	Elongation change (max)	-30	%	Input Value	→
14.3.3	Volume change (max)	+80	%	Input Value	→
15	SHELF LIFE	MINIMUM 10 YEARS	-	To confirm	→
16	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	-	To confirm	→
17	CERTIFICATION	Material Test Certificate (MTC). MTC to include test report for 14.1 to 14.3 above.	Y	Confirm to supply	→
18	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
19	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE	W97015701308
ITEM NAME	GASKET, MS28777-12
ITEM PART NO	P/N 137618165
INTERNATIONAL EQUIVALENT	MS28777-12



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28777	-	To confirm	→
2	DASH NO	12	-	To confirm	→
3	TUBE OD	3/4	INCH	Input Value	→
4	INNER DIA (A)	0.922 +/- 0.0075 (23.419 +/- 0.191)	IN (MM)	Input Value	→
5	OUTER DIA (D)	1.264 (32.106)	IN (MM)	Input Value	→
6	THICKNESS (C)	0.125 +/- .010 (3.175 +/- 0.254)	IN (MM)	Input Value	→
7	CROSS SECTION (B)	0.1709 +/- 0.0075 (4.341 +/- 0.191)	IN (MM)	Input Value	→
8	MATERIAL	LEATHER FROM CATLE HIDES	-	To confirm	→
9	SHELF LIFE	Minimum 10 years	-	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
12	VENDOR REMARKS				

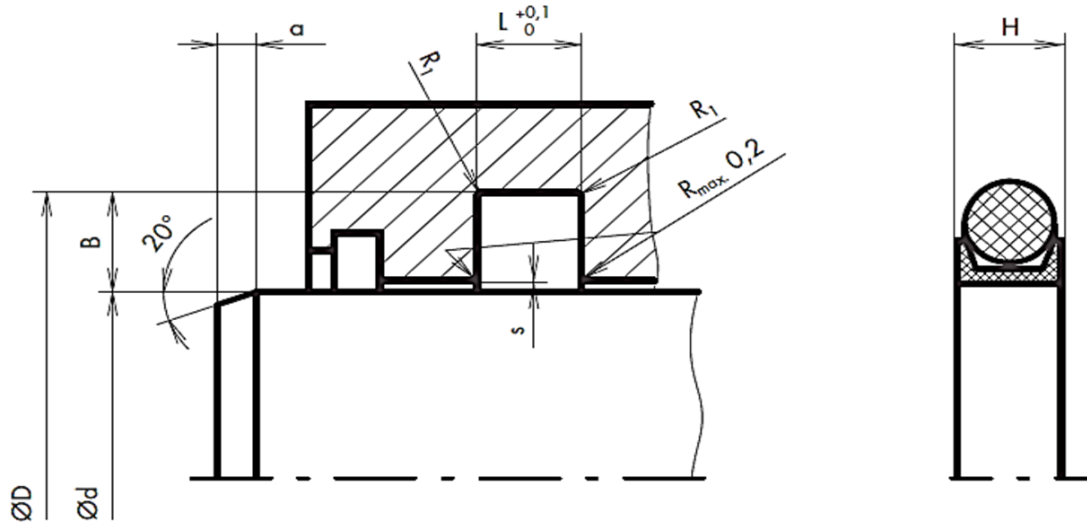
TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97015701391

ITEM NAME: ROD SEAL

ITEM PART NO: P/N 137602137

INTERNATION EQUIVALENT: MODEL NO:11.5912.1022 OF M/S ANGST+PFISTER

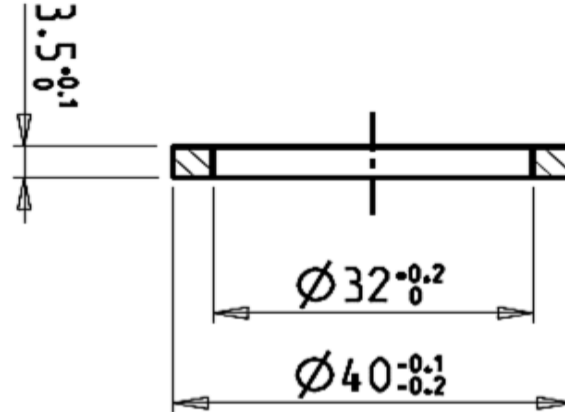


SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	PRODUCT FORM	ROD SEAL	-	To confirm →	
2	WORKING PRESSURE	21 (210)	MPA (BAR)	To specify →	
3	TEMPERATURE	-30 TO + 100	DEGREE C	To confirm →	
4	SPEED	UP TO 4 M/S	M/S	To input →	
5	GROOVE HEIGHT (D)	29.1 (- 0.00 / + 0.052)	MM	To input →	
6	ROD DIA (d)	22 (- 0.000 / + 0.033)	MM	To input →	
7	GROOVE WIDTH (L)	4.5 (+ 0.1 / - 0.0)	MM	To input →	
8	PROFILE WIDTH (B)	3.55	MM	To input →	
9	SEAL HEIGHT (H)	4.3	MM	To input →	
10	O-RING CROSS SECTION	3.53	MM	To input →	
11	FLUID	HYDRAULIC OIL	-	To input →	
12	CUP MATERIAL	PTFE pure compound	-	To confirm →	
13	O-RING MATERIAL	NBR 70 SHORE A	-	To confirm →	
14	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm →	
15	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm →	
16	CERTIFICATIONS	Certificate of Conformance / Compliance (COC)	Y	To confirm →	

17	VENDOR REMARKS:
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**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

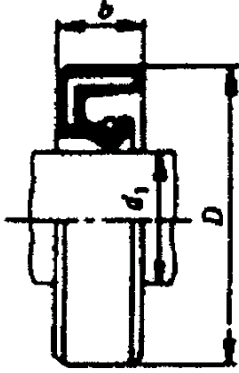
ITEM CODE	W97015701537
ITEM NAME	GASKET
ITEM PART NO	P/N 137602173
INTERNATIONAL EQUIVALENT	



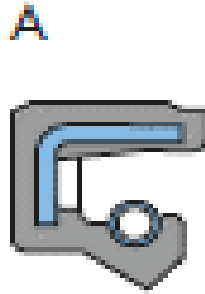
SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	AS PER ABOVE SKETCH	-	To confirm	→
2	ID (Min.)	32	MM	Input Value	→
3	ID (Max.)	32.2	MM	Input Value	→
4	OD (Min.)	39.8	MM	Input Value	→
5	OD (Max.)	39.9	MM	Input Value	→
6	THICKNESS (Min.)	3.5	MM	Input Value	→
7	THICKNESS (Max.)	3.6	MM	Input Value	→
8	MATERIAL	ASTM D4066 PA613 — NYLON 6/12 Natural OR NYLON ASN 25M GRADE (WHITE)	-	To specify	→
9	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
10	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
11	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
12	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97015701715
ITEM NAME RADIAL SHAFT SEAL
ITEM PART NO P/N 230021133
INTERNATIONAL EQUIVALENT OIL SEAL A+P,NBR AP 70.12 90 X 120 X 12 MM OF ANGST & PFISTER.



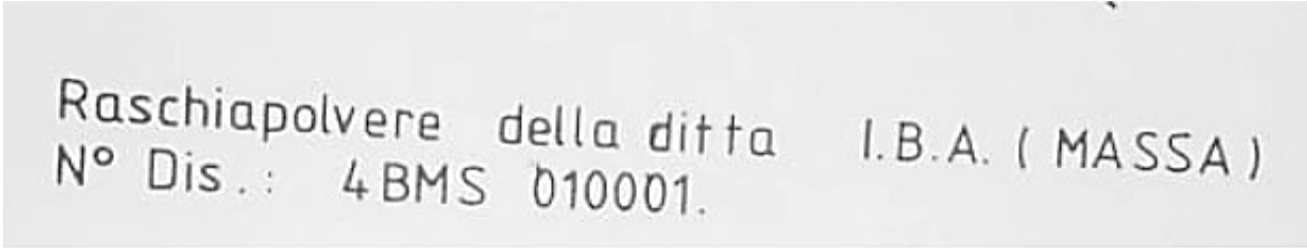
Type 1
Reinforcement
with elastomer
coating



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	ITEM	RADIAL SHAFT SEAL	-	To confirm	→
2	SPECIFICATION	AS 568A / BS1806	-	To confirm	→
3	SHAFT DIA (d1)	90	MM	Input Value	→
4	SEAL OUTER DIA (D)	120	MM	Input Value	→
5	SEAL HEIGHT (b)	12	MM	Input Value	→
6	OPERATING TEMPRETURE	-40 TO + 120	DEG. C	To confirm	→
7	PRESSURE RATING	< 0.5 BAR	BAR	To confirm	→
8	PERIPFERAL SPEED	14 M/S	M/S	To confirm	→
9	SEAL MATERIAL	NBR	Y	To confirm	→
10	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
11	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
12	HARDNESS, TYPE A (MINIMUM)	70	POINTS	To confirm	→
13	REINFORCEMENT MATERIAL	STEEL	Y	To confirm	→
14	REINFORCEMENT MATERIAL FINISH	ZINC -NICKEL PLATED	Y	To confirm	→
15	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
16	VENDOR REMARKS				

**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE W97015702010
 ITEM NAME GASKET
 ITEM PART NO P/N 137605450
 INTERNATIONAL EQUIVALENT MODEL 4B MS 010001 OF IBA, ITALY



**SCRAPPER SEAL OF COMPANY
 IBA SaS, MASSA, ITALY
 MODEL. NO. 4B MS 010001**

* All dimension are in MM

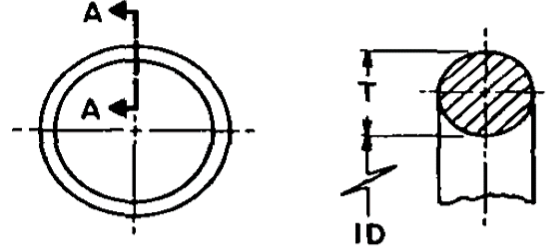
SN.	DESCRIPTION	TECHNICAL PARAMETERS	RESPONSE TYPE	VENDOR RESPONSE <i>(Parameters of offered item to be filled by vendor)</i>
1	ITEM	SCRAPPER SEAL	To confirm →	
2	CROSS SECTION & OTHER DETAILS	AS PER ABOVE SKETCH	To confirm →	
3	CERTIFICATE OF CONFORMANCE / COMPLIANCE (COC)	VENDOR TO SUBMIT WITH DELIVERY OF ITEM	To confirm →	
4	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	To confirm →	
5	VENDOR REMARKS: Vendor to give here details of quoted item and deviations, if any. <i>Specify the Make >> and Model quoted. >> Deviation, if any >></i>			

NOTE::

VENDOR ARE REQUESTED TO KINLDY FILL THE VALUES AGAINST "INPUT VALUE"
 AND CONFIRM AS YES OR NO AGAINST "TO CONFIRM"

**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE W97011201475
 ITEM NAME O-RING, MS28775-117
 ITEM PART NO P/N 230079047
 INTERNATIONAL EQUIVALENT MS28775-117

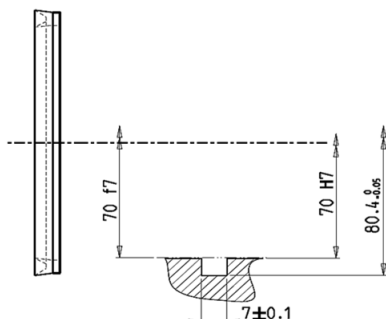


SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	117	-	To confirm	→
3	ID (Min.)	0.7983 (20.14)	IN (MM)	Input Value	→
4	ID (Max.)	0.805 (20.45)	IN (MM)	Input Value	→
5	T (Min.)	0.100 (2.54)	IN (MM)	Input Value	→
6	T (Max.)	0.160 (2.692)	IN (MM)	Input Value	→
7	WEIGHT	0.00049	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275 ° - 54 ° to + 135 °	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
10	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
11	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
12	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97031301483
ITEM NAME O-RING, SEALING RING R22KN
ITEM PART NO P/N 137617262
INTERNATIONAL EQUIVALENT R22KN AWC860 80.4X70X7 GH OF CHESTERTON



* All dimension are in MM

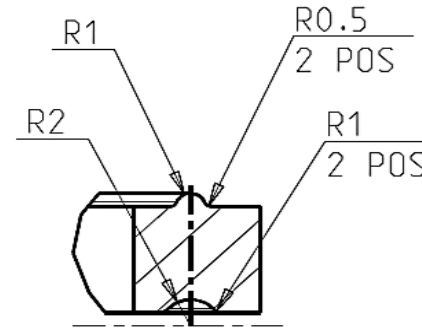
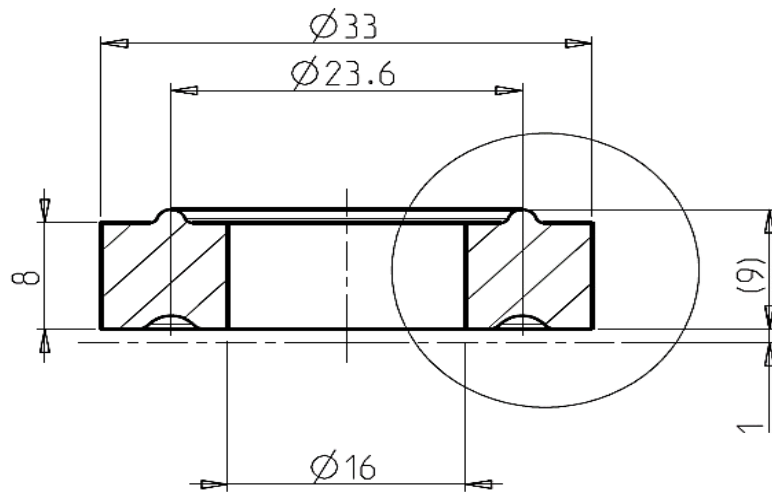
SN.	DESCRIPTION	TECHNICAL PARAMETERS	RESPONSE TYPE	VENDOR RESPONSE (Parameters of offered item to be filled by vendor)
1	ITEM	ROD SEAL, SINGLE ACTING, U CUP DESIGN	To confirm →	
2	CROSS SECTION SHAPE	U CUP AS PER SKETCH ABOVE	To confirm →	
3	WORKING TEMPRETURE	-50 TO 85 DEG. C	To confirm →	
4	WORKING PRESSURE	100 BAR	To confirm →	
5	WORKING SPEED	1.25 M/S	To confirm →	
6	MATERIAL	THERMOSTAT POLYURETHANE (AWC800-95A)	To confirm →	
6.1	HARDNESS	95 SHORE A	Input Value →	
6.2	TENSILE STRENGTH	34.5 MPA	Input Value →	
6.3	ELONGATION AT BREAK	400%	Input Value →	
7	SHAFT DIA	70 f7	Input Value →	
8	GROOVE DIA	80.4 (+0.0 / -0.05)	Input Value →	
9	GROOVE WIDTH	7.0 +/- 0.1	Input Value →	
10	SHELF LIFE	Minimum 5 years	To confirm →	
11	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	To confirm →	
12	CERTIFICATION	MATERIAL TEST CERTIFICATE (MTC)	Confirm to supply →	
13	CERTIFICATION	CERTIFICATE OF CONFORMANCE / COMPLIANCE (COC)	Confirm to supply →	
14	VENDOR REMARKS: Vendor to give here details of quoted item and deviations, if any. Specify the Make >> and Model quoted. >> Deviation, if any >>			

NOTE::

VENDOR ARE REQUESTED TO KINLDY FILL THE VALUES AGAINST "INPUT VALUE" AND CONFIRM AS YES OR NO AGAINST "TO CONFIRM"

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE	W97032301304
ITEM NAME	SHOCK RING, SIZE 33X16X9
ITEM PART NO	P/N 157611225
INTERNATIONAL EQUIVALENT	MODEL: VK 550206 OF HUBNER GMBH



* All dimension are in MM
 DETAIL A
 SCALA 2:1
 SCALE 2:1

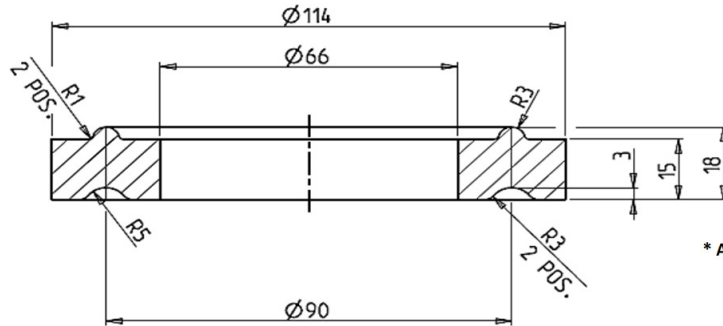
SN.	DESCRIPTION	TECHNICAL PARAMETERS	RESPONSE TYPE	VENDOR RESPONSE (Parameters of offered item to be filled by vendor)
1	MATERIAL	NATURAL COMPOUND OR BUNA-S OR PERBUNAN	Input Value →	
2	SHORE HARDNESS	55 +/- 5	Input Value →	
3	NATURAL FREQUENCY	9 Hz	To confirm →	
4	COLOR	Black	To confirm →	
5	SHAPE	AS PER SKETCH ABOVE	To confirm →	
6	OUTER DIA	33 MM	Input Value →	
7	INNER DIA	16 MM	Input Value →	
8	WIDTH (FLAT TO FLAT)	8 MM	To confirm →	
9	WIDTH (FLAT TO RIDGE)	9 MM	Input Value →	
10	RIDGE SIZE	R1	Input Value →	
11	PCD OF RIDGE	23.6 MM	Input Value →	
12	GROOVE SIZE	R2	Input Value →	
13	PCD OF GROOVE	23.6 MM	Input Value →	
14	Shelf life	Minimum 10 years	Input Value →	
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	To confirm →	
15	LOAD VERSES STRAIN TEST	Vendor to submit with delivery of item	To confirm →	
16	MATERIAL TEST CERTIFICATE		To confirm →	
17	CERTIFICATE OF CONFORMANCE / COMPLIANCE (COC)		To confirm →	
18	VENDOR REMARKS: Vendor to give here details of quoted item and deviations, if any. Specify the Make >> and Model quoted. >> Deviation, if any >>			

NOTE::

VENDOR ARE REQUESTED TO KINLDY FILL THE VALUES AGAINST "INPUT VALUE"
 AND CONFIRM AS YES OR NO AGAINST "TO CONFIRM"

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE	W97032301312
ITEM NAME	BUMPER, SIZE 114X66X18
ITEM PART NO	P/N 157605272
INTERNATIONAL EQUIVALENT	HUBNER GMBH; CODE: PK 600112



* All dimension are in MM

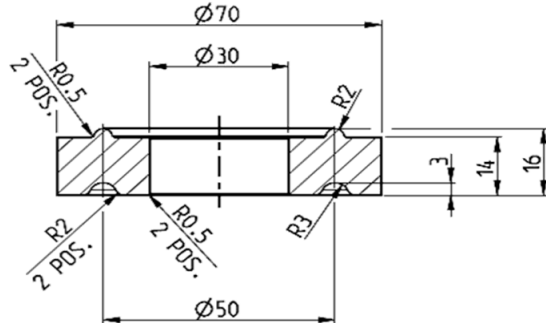
SN.	DESCRIPTION	TECHNICAL PARAMETERS	RESPONSE TYPE	VENDOR RESPONSE (Parameters of offered item to be filled by vendor)
1	MATERIAL	NATURAL COMPOUND OR BUNA-S OR PERBUNAN	Input Value →	
2	SHORE HARDNESS	60 +/- 5	Input Value →	
3	NATURAL FREQUENCY	9 Hz	To confirm →	
4	COLOR	Black	To confirm →	
5	SHAPE	AS PER SKETCH ABOVE	To confirm →	
6	OUTER DIA	114 MM	Input Value →	
7	INNER DIA	66 MM	Input Value →	
8	WIDTH (FLAT TO FLAT)	15 MM	To confirm →	
9	WIDTH (FLAT TO RIDGE)	18 MM	Input Value →	
10	RIDGE SIZE	R3	Input Value →	
11	PCD OF RIDGE	90 MM	Input Value →	
12	GROOVE SIZE	R5	Input Value →	
13	PCD OF GROOVE	90 MM	Input Value →	
14	SHELF LIFE	MINIMUM 10 YEARS	To confirm →	
15	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	To confirm →	
16	LOAD VERSES STRAIN TEST	Vendor to submit with delivery of item	To confirm →	
17	MATERIAL TEST CERTIFICATE		To confirm →	
18	CERTIFICATE OF CONFORMANCE / COMPLIANCE (COC)		To confirm →	
19	VENDOR REMARKS: Vendor to give here details of quoted item and deviations, if any. <i>Specify the Make >> and Model quoted. >> Deviation, if any >></i>			

NOTE::

VENDOR ARE REQUESTED TO KINLDY FILL THE VALUES AGAINST "INPUT VALUE"
 AND CONFIRM AS YES OR NO AGAINST "TO CONFIRM"

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE	W97032301320
ITEM NAME	SHOCK RING, SIZE 33X16X9
ITEM PART NO	P/N 157602197
INTERNATIONAL EQUIVALENT	MODEL: VK 700213 OF HUBNER GMBH



* All dimension are in MM

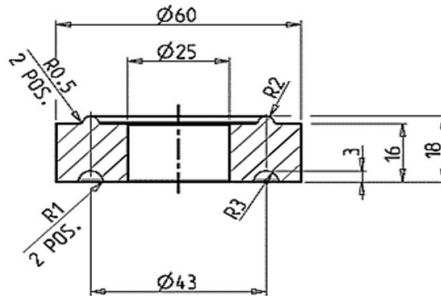
SN.	DESCRIPTION	TECHNICAL PARAMETERS	RESPONSE TYPE	VENDOR RESPONSE (Parameters of offered item to be filled by vendor)
1	MATERIAL	NATURAL COMPOUND OR BUNA-S OR PERBUNAN	Input Value →	
2	SHORE HARDNESS	70 +/- 5	Input Value →	
3	NATURAL FREQUENCY	7 Hz	To confirm →	
4	COLOR	Black	To confirm →	
5	SHAPE	AS PER SKETCH ABOVE	To confirm →	
6	OUTER DIA	70 MM	Input Value →	
7	INNER DIA	30 MM	Input Value →	
8	WIDTH (FLAT TO FLAT)	14 MM	To confirm →	
9	WIDTH (FLAT TO RIDGE)	16 MM	Input Value →	
10	RIDGE SIZE	R2	Input Value →	
11	PCD OF RIDGE	50 MM	Input Value →	
12	GROOVE SIZE	R3	Input Value →	
13	PCD OF GROOVE	50 MM	Input Value →	
14	SHELF LIFE	MINIMUM 10 YEARS	To confirm →	
15	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	To confirm →	
16	LOAD VERSES STRAIN TEST	Vendor to submit with delivery of item	To confirm →	
17	MATERIAL TEST CERTIFICATE		To confirm →	
18	CERTIFICATE OF CONFORMANCE / COMPLIANCE (COC)		To confirm →	
19	VENDOR REMARKS: Vendor to give here details of quoted item and deviations, if any. <i>Specify the Make >> and Model quoted. >> Deviation, if any >></i>			

NOTE::

VENDOR ARE REQUESTED TO KINLDY FILL THE VALUES AGAINST "INPUT VALUE" AND CONFIRM AS YES OR NO AGAINST "TO CONFIRM"

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97032301339
ITEM NAME BUMPER, SIZE 60X25X18
ITEM PART NO P/N 157602198
INTERNATIONAL EQUIVALENT



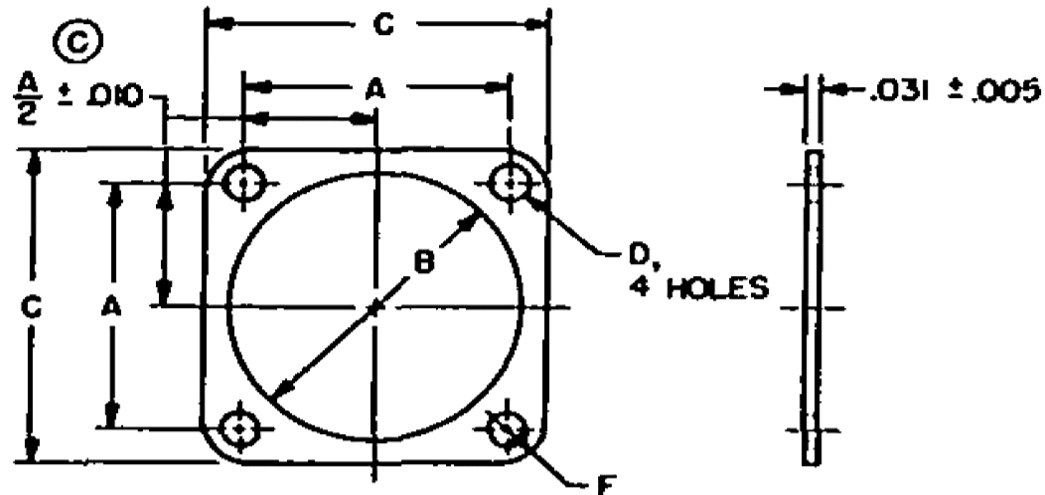
* All dimension are in MM

SN.	DESCRIPTION	TECHNICAL PARAMETERS	RESPONSE TYPE	VENDOR RESPONSE (Parameters of offered item to be filled by vendor)
1	MATERIAL	Natural compound or BUNA-S or Perbunan	Input Value →	
2	SHORE HARDNESS	70 +/- 5	Input Value →	
3	NATURAL FREQUENCY	7 Hz	To confirm →	
4	COLOR	Black	To confirm →	
5	SHAPE	As per sketch above	To confirm →	
6	OUTER DIA	60 MM	Input Value →	
7	INNER DIA	25 MM	Input Value →	
8	WIDTH (FLAT TO FLAT)	16 MM	To confirm →	
9	WIDTH (FLAT TO RIDGE)	18 MM	Input Value →	
10	RIDGE SIZE	R2	Input Value →	
11	PCD OF RIDGE	43 MM	Input Value →	
12	GROOVE SIZE	R3	Input Value →	
13	PCD OF GROOVE	43 MM	Input Value →	
14	SHELF LIFE	MINIMUM 10 YEARS	To confirm →	
15	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	To confirm →	
16	LOAD VERSES STRAIN TEST	Vendor to submit with delivery of item	To confirm →	
17	MATERIAL TEST CERTIFICATE		To confirm →	
18	Certificate of Conformance / Compliance (COC)		To confirm →	
19	<p>VENDOR REMARKS: Vendor to give here details of quoted item and deviations, if any.</p> <p>Specify the Make >> and Model quoted. >> Deviation, if any >></p>			

NOTE::
VENDOR ARE REQUESTED TO KINLDY FILL THE VALUES AGAINST "INPUT VALUE"
AND CONFIRM AS YES OR NO AGAINST "TO CONFIRM"

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

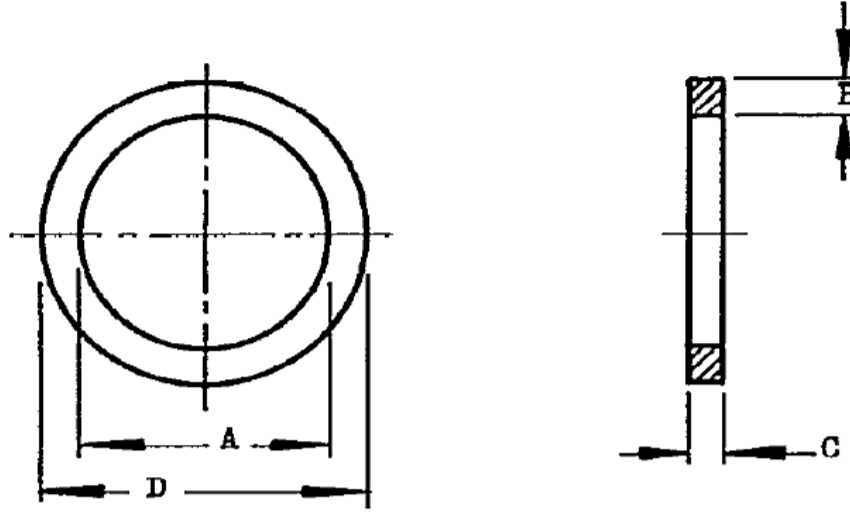
ITEM CODE W97051802011
ITEM NAME GASKET, MS51007-5
ITEM PART NO P/N 811GU0035
INTERNATIONAL EQUIVALENT MS51007-5



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS51007	-	To confirm	→
2	DASH NO	5	-	To confirm	→
3	DISTANCE BETWEEN HOLES (A)	0.969 (24.613)	IN (MM)	Input Value	→
4	INNER DIA (B)	1.000 (25.400)	IN (MM)	Input Value	→
5	LENGTH & WIDTH (C)	1.281 (32.537)	IN (MM)	Input Value	→
6	HOLE DIA (D)	0.172 (4.369)	IN (MM)	Input Value	→
7	EDGE RADIUS (F)	0.156 (3.962)	IN (MM)	Input Value	→
8	MATERIAL	SYNTHETIC RUBBER	-	To confirm	→
9	MATERIAL CONFORMING TO SPEC	MIL-STD-417 GRADE SC515 A1B1C1F2Z1	-	Specify Spec.	→
10	COLOUR	BLACK	-	To confirm	→
11	MATERIAL PROPERTIES (to be reported in MTC)	SC515 A1 B1 C1 F2 Z1	-	To confirm	→
11.1	SC	Oil Resistant, medium volume swell	-	To confirm	→
11.2	A1	Resistance to heat aging 70 hrs at 100 deg C.	-	To confirm	→
11.1.1	Hardness change (max)	7	%	Input Value	→
11.1.2	Tensile change (max)	-25	%	Input Value	→
11.1.3	Elongation change (max)	-25	%	Input Value	→
11.3	B1	Compression set after 70hrs at 100 deg. C	-	To confirm	→
11.3.1	Change (max)	30	%	Input Value	→
11.4	C1	Resistance to Ozone at 50 pphm at 38deg.C for 7 days	-	To confirm	→
11.5	F2	low temerature brittleness at -55 deg C	-	To confirm	→
11.6	Z1	Fungus resitant	-	To confirm	→
12	SHELF LIFE	Minimum 10 years	-	To confirm	→
13	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
14	CERTIFICATION	Material Test Certificate (MTC). MTC to include test report for 11.1 to 11.6 above.	Y	Confirm to supply	→
15	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
16	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

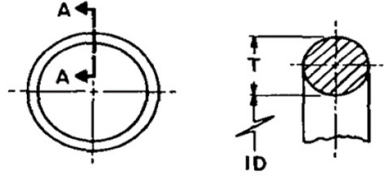
ITEM CODE W97035901019
ITEM NAME GASKET, MS28777-10
ITEM PART NO P/N 157606699
INTERNATIONAL EQUIVALENT MS28777-10



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28777	-	To confirm	→
2	DASH NO	10	-	To confirm	→
3	TUBE OD	1	INCH	Input Value	→
4	INNER DIA (A)	0.75 +/- 0.0075 (19.05 +/- 0.191)	IN (MM)	Input Value	→
5	OUTER DIA (D)	1.012 (25.705)	IN (MM)	Input Value	→
6	THICKNESS (C)	0.094 +/- .010 (2.388 +/- 0.254)	IN (MM)	Input Value	→
7	CROSS SECTION (B)	0.1309 +/- 0.0075 (3.325 +/- 0.191)	IN (MM)	Input Value	→
8	MATERIAL	LEATHER FROM CATLE HIDES	-	To confirm	→
9	SHELF LIFE	Minimum 10 years	-	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
12	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97011201122
 ITEM NAME O-RING, MS28775-112
 ITEM PART NO P/N 137604144
 INTERNATIONAL EQUIVALENT MS28775-112

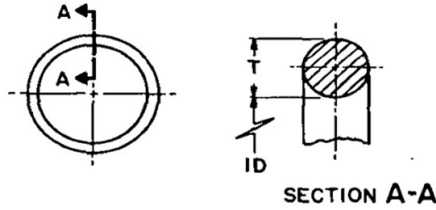


SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	112	-	To confirm	→
3	ID (Min.)	0.482 (12.24)	IN (MM)	Input Value	→
4	ID (Max.)	0.492 (12.50)	IN (MM)	Input Value	→
5	T (Min.)	0.100 (2.540)	IN (MM)	Input Value	→
6	T (Max.)	0.106 (2.692)	IN (MM)	Input Value	→
7	WEIGHT	0.00032	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

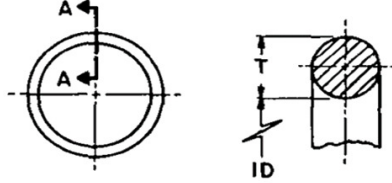
ITEM CODE W97011201254
ITEM NAME O-RING, AN6230-B34
(MS28775-256)
ITEM PART NO P/N 230079146
INTERNATIONAL EQUIVALENT AN6230-B34; MS28775-256



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	256	-	To confirm	→
3	ID (Min.)	5.711(145.059)	IN (MM)	Input Value	→
4	ID (Max.)	5.757 (146.228)	IN (MM)	Input Value	→
5	T (Min.)	0.135 (3.429)	IN (MM)	Input Value	→
6	T (Max.)	0.143 (3.632)	IN (MM)	Input Value	→
7	WEIGHT	0.00584	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC) to include Test report of above pts 8.1 to 8.8.4	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE	W97011201440
ITEM NAME	O-RING, MS28775-114
ITEM PART NO	P/N 230079044
INTERNATIONAL EQUIVALENT	MS28775-114

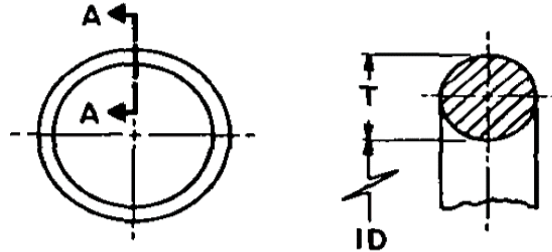


SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	114	-	To confirm	→
3	ID (Min.)	0.607 (15.42)	IN (MM)	Input Value	→
4	ID (Max.)	0.617 (15.67)	IN (MM)	Input Value	→
5	T (Min.)	0.100 (2.540)	IN (MM)	Input Value	→
6	T (Max.)	0.106 (2.692)	IN (MM)	Input Value	→
7	WEIGHT	0.00039	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE W97011201564
 ITEM NAME O-RING, MS28775-135
 ITEM PART NO P/N 137604204
 INTERNATIONAL EQUIVALENT MS28775-135

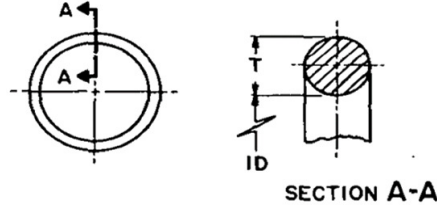


SECTION A-A

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	135	-	To confirm	→
3	ID (Min.)	1.915 (48.641)	IN (MM)	Input Value	→
4	ID (Max.)	1.935 (49.149)	IN (MM)	Input Value	→
5	T (Min.)	0.100 (2.54)	IN (MM)	Input Value	→
6	T (Max.)	0.106 (2.692)	IN (MM)	Input Value	→
7	WEIGHT	0.00111	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

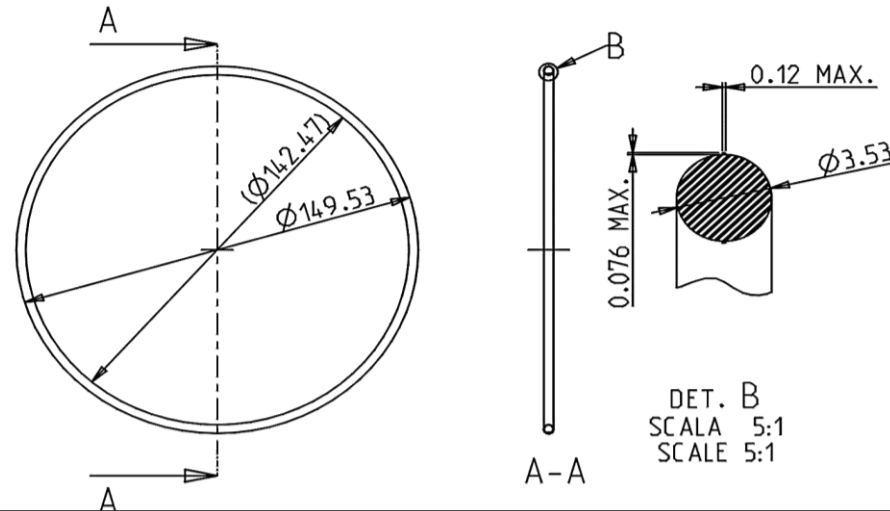
ITEM CODE	W97011201599
ITEM NAME	O-RING, MS28775-139
ITEM PART NO	P/N 230079069
INTERNATIONAL EQUIVALENT	MS28775-139



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	139	-	To confirm	→
3	ID (Min.)	2.165(54.99)	IN (MM)	Input Value	→
4	ID (Max.)	2.185 (55.50)	IN (MM)	Input Value	→
5	T (Min.)	0.100 (2.540)	IN (MM)	Input Value	→
6	T (Max.)	0.106 (2.692)	IN (MM)	Input Value	→
7	WEIGHT	0.00124	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

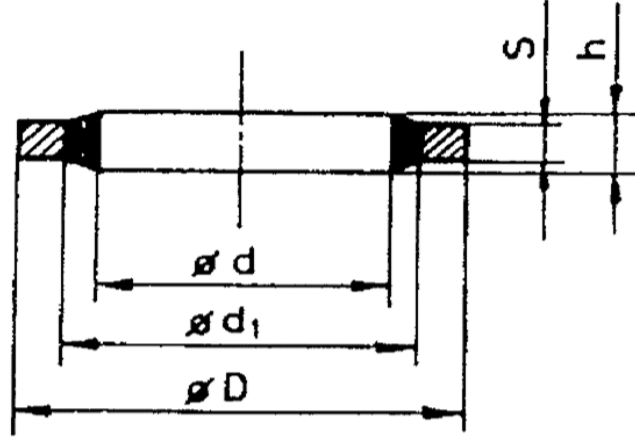
ITEM CODE W97011202102
ITEM NAME O RING MIL-R-83248-1-255
ITEM PART NO P/N 137601126
INTERNATIONAL EQUIVALENT M83248-1-255



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MIL-R-83248/1	-	To confirm	→
2	DASH NO	255	-	To confirm	→
3	INNER DIA	5.609 (142.469)	IN (MM)	Input Value	→
4	OUTER DIA	5.887 (149.53)	IN (MM)	Input Value	→
5	CROSS SECTION DIA	0.139 (3.531)	IN (MM)	Input Value	→
6	NOTCH HEIGHT, MAX.	0.00299 (0.076)	IN (MM)	Input Value	→
7	NOTCH WIDTH, MAX.	0.0046 (0.117)	IN (MM)	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-R-83248 Type 1 Class 1		Specify Spec.	→
8.1	TEMPERATURE	Min: -25°C Max: +230°C	C	Input Value	→
8.2	MATERIAL	RUBBER FLUOROCARBON 75 CLASS FPM	-	To confirm	→
8.3	HARDNESS, SHORE DUROMETER TYPE A	70.0 MINIMUM AND 80.0 MAXIMUM	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	10.3	MPA	Input Value	→
8.5	ELONGATION % (MAXIMUM)	125	%	Input Value	→
9	SHELF LIFE	Minimum 10 years	-	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

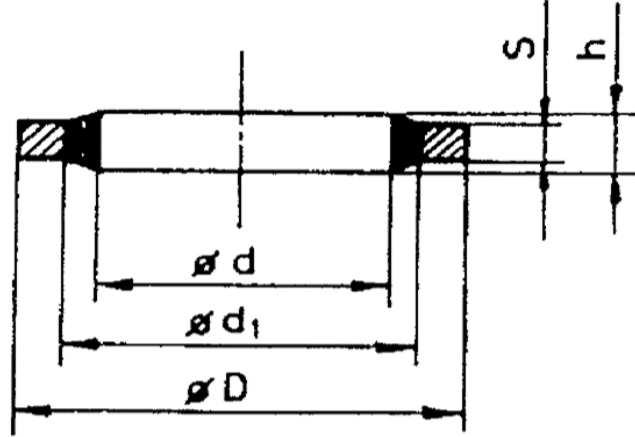
ITEM CODE	W97011202323
ITEM NAME	SEAL, BAGUES BS A3
ITEM PART NO	P/N 230079440
INTERNATIONAL EQUIVALENT	BONDED SEAL BAGUES BS A3



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	BONDED SEALS (DOWTY, POLYPAC, LE JOINT FRANCAIS ETC.)	-	To confirm	→
2	APPLICATION THREAD SIZE	M3			
3	INNER DIA (d)	3.6 +/- 0.1	MM	Input Value	→
4	SEAL DIA (d1)	5 +/- 0.1	MM	Input Value	→
5	OUTER DIA (D)	7.5 (+ 0.1 / - 0.15)	MM	Input Value	→
6	HEIGHT (h)	1.6	MM	Input Value	→
7	SEAL WIDTH (S)	1	MM	Input Value	→
8	WORKING PRESSURE	600	BAR	Input Value	
9	WASHER MATERIAL	STAINLESS STEEL	C	Input Value	→
10	WASHER FINISH	PASSIVATED	-	To confirm	→
11	SEAL MATERIAL	RUBBER NBR: SHORE HARDNESS A 70 - 90		Specify Spec.	→
12	Shelf Life	Minimum 10 years		To confirm	→
13	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
14	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
15	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97011202358
ITEM NAME SEAL, BAGUES B.S. B16
ITEM PART NO P/N 230079456
INTERNATIONAL EQUIVALENT BONDED SEAL BAGUES B16



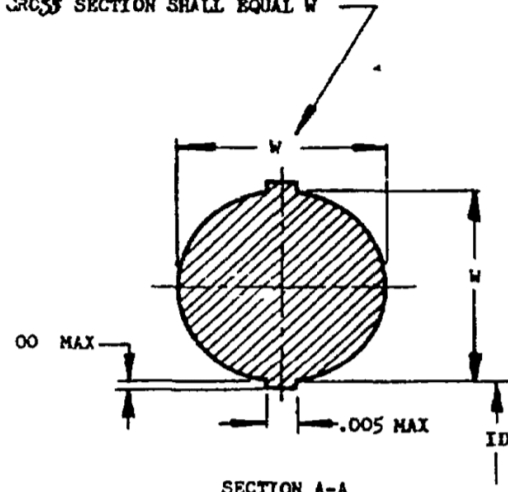
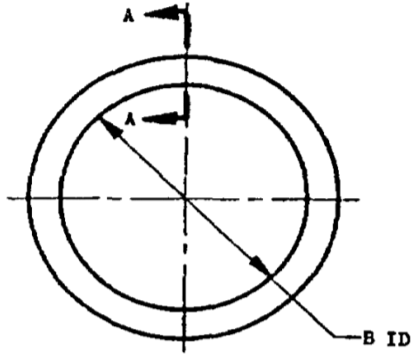
SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	BONDED SEALS (DOWTY, POLYPAC, LE JOINT FRANCAIS ETC.)	-	To confirm	→
2	APPLICATION THREAD SIZE	M16			
3	INNER DIA (d)	16.7 +/- 0.1	MM	Input Value	→
4	SEAL DIA (d1)	18.1 +/- 0.1	MM	Input Value	→
5	OUTER DIA (D)	23 (+ 0.1 / - 0.2)	MM	Input Value	→
6	HEIGHT (h)	2.3	MM	Input Value	→
7	SEAL WIDTH (S)	1.5	MM	Input Value	→
8	WORKING PRESSURE	600	BAR	Input Value	
9	WASHER MATERIAL	STAINLESS STEEL	C	Input Value	→
10	WASHER FINISH	PASSIVATED	-	To confirm	→
11	SEAL MATERIAL	RUBBER NBR: SHORE HARDNESS A 70 - 90		Specify Spec.	→
12	SHELF LIFE	Minimum 10 years	-	To confirm	→
13	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
14	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
15	VENDOR REMARKS				

**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE
ITEM NAME
ITEM PART NO
INTERNATIONAL EQUIVALENT

W97011202404
O-RING, MS28778-16
P/N 137618270
MS28778-16

ALL DIAMETERS OF CROSS SECTION SHALL EQUAL W

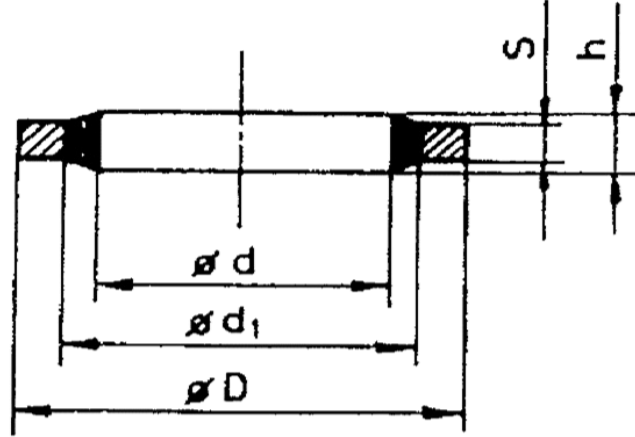


SECTION A-A
ENLARGED

SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28778	-	To confirm	→
2	DASH NO	16	-	To confirm	→
3	TUBE OD	1	INCH	Input Value	→
4	INNER DIA	1.171 +/- 0.006 (29.743 +/- 0.152)	IN (MM)	Input Value	→
5	CROSS SECTION DIA	0.116 +/- .004 (2.946 +/- 0.102)	IN (MM)	Input Value	→
6	MATERIAL	ACRYLONITRILE BUTADIENE RUBBER (NITRILE / NBR RUBBER)	-	To confirm	→
7	HARDNESS, SHORE DUROMETER TYPE A	88 MIN.	POINTS	Input Value	→
8	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
9	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
12	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

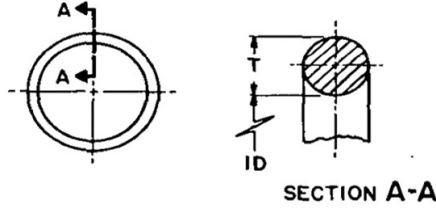
ITEM CODE W97011202412
ITEM NAME SEAL, BAGUES B.S. B14
ITEM PART NO P/N 137605116
INTERNATIONAL EQUIVALENT BONDED SEAL BAGUES B14



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	BONDED SEALS (DOWTY, POLYPAC, LE JOINT FRANCAIS ETC.)	-	To confirm	→
2	APPLICATION THREAD SIZE	M14			
3	INNER DIA (d)	14.7 +/- 0.1	MM	Input Value	→
4	SEAL DIA (d1)	16.1 +/- 0.1	MM	Input Value	→
5	OUTER DIA (D)	21 (+ 0.1 / - 0.2)	MM	Input Value	→
6	HEIGHT (h)	2.3	MM	Input Value	→
7	SEAL WIDTH (S)	1.5	MM	Input Value	→
8	WORKING PRESSURE	600	BAR	Input Value	
9	WASHER MATERIAL	STEEL: TENSILE 540 MN/m2 (MIN.)	C	Input Value	→
10	WASHER FINISH	ZINC PLATING	-	To confirm	→
11	SEAL MATERIAL	RUBBER NBR: SHORE HARDNESS A 70 +/- 5 OR FKM		Specify Spec.	→
12	SHELF LIFE	Minimum 10 years	-	To confirm	→
13	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
14	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
15	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

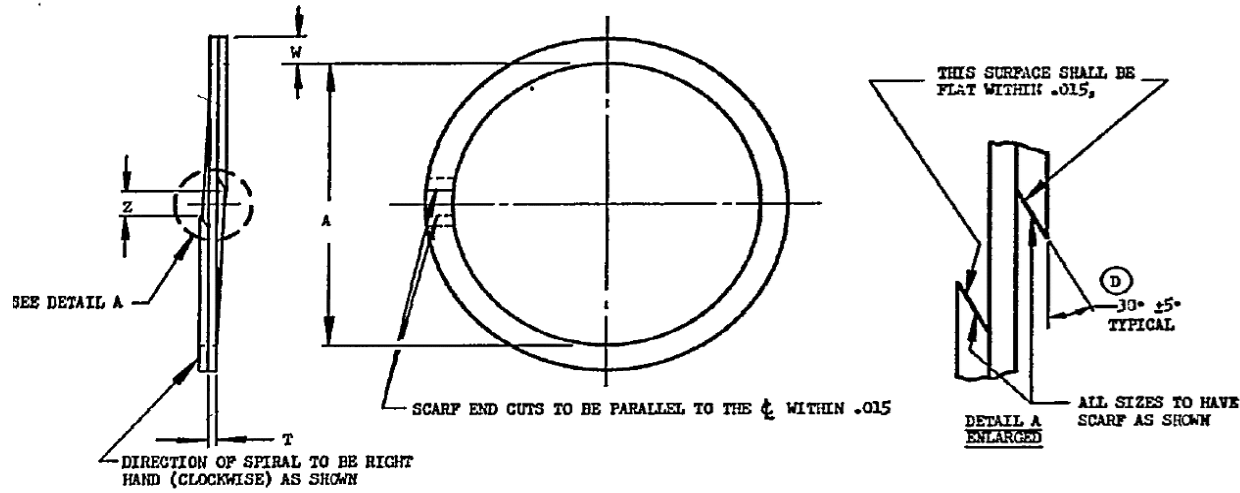
ITEM CODE	W97015701162
ITEM NAME	O-RING, MS28775-446
ITEM PART NO	P/N 127619188
INTERNATIONAL EQUIVALENT	MS28775-446



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28775	-	To confirm	→
2	DASH NO	446	-	To confirm	→
3	ID (Min.)	8.445(214.50)	IN (MM)	Input Value	→
4	ID (Max.)	8.505 (216.03)	IN (MM)	Input Value	→
5	T (Min.)	0.269 (6.83)	IN (MM)	Input Value	→
6	T (Max.)	0.281 (7.14)	IN (MM)	Input Value	→
7	WEIGHT	0.03407	KG	Input Value	→
8	PROPERTIES CONFORMING TO	MIL-P-25732		Specify Spec.	→
8.1	TEMPERATURE	- 65 ° to + 275° - 54 ° to + 135°	F C	Input Value	→
8.2	MATERIAL	SYTHETIC RUBBER COMPATIBLE TO HYDRAULIC FLUID MIL-H-5606	Y	To confirm	→
8.3	HARDNESS, TYPE A (MINIMUM)	68	POINTS	Input Value	→
8.4	TENSILE STRENGTH (MINIMUM)	1350	PSI	Input Value	→
8.5	ELONGATION % (MINIMUM)	160	%	Input Value	→
8.6	TESILE STESS (MODULUS) AT 100 % ELONGATION (MINIMUM)	500	PSI	Input Value	→
8.7	TEMPERATURE RETRACTION, TR-10 50% ELONGATION AND 10% RETURN (MAXIMUM)	- 47 °	F	Input Value	→
8.8	RESISTANT TO HEAT AGING 70 HOURS AT 135 DEG C in MIL-H-5606				
8.8.1	Hardness change, Type A	+5 to -15	points	Input Value	→
8.8.2	Tensile change (max.)	-50	%	Input Value	→
8.8.3	Elongation change (max.)	-35	%	Input Value	→
8.8.4	Volume change	10 to 20	%	Input Value	→
8.9	Dynamic Cycling as per 4.7 of MIL-P-25732	75000	cycles	Input Value	→
9	SHELF LIFE	MINIMUM 10 YEARS	Y	To confirm	→
10	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm	→
11	CERTIFICATION	Material Test Certificate (MTC)	Y	Confirm to supply	→
12	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply	→
13	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

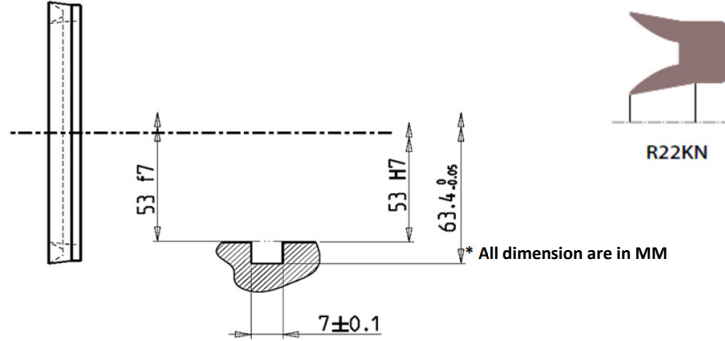
ITEM CODE W97031301092
ITEM NAME RING, SPLIT, MS28782-25
ITEM PART NO P/N 127608440
INTERNATIONAL EQUIVALENT MS28782-25



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	SPECIFICATION	MS28782	-	To confirm →	
2	DASH NO	25	-	To confirm →	
3	INNER DIA (A)	1.375 (34.925)	IN (MM)	Input Value →	
4	THICKNESS (T), MAX.	0.029 (.737)	IN (MM)	Input Value →	
5	THICKNESS (T), MIN.	0.025 (.635)	IN (MM)	Input Value →	
6	WIDTH (W), MAX.	0.122 (3.099)	IN (MM)	Input Value →	
7	WIDTH (W), MIN.	0.120 (3.048)	IN (MM)	Input Value →	
8	GAP (Z), MAX.	0.093 (2.362)	IN (MM)	Input Value →	
9	GAP (Z), MIN.	0.047 (1.194)	IN (MM)	Input Value →	
10	MATERIAL	TEFLON: TETRAFLUOROETHYLENE (TFE) RESIN	-	To confirm →	
11	MATERIAL CONFORMING TO SPEC	MIL-R-8791	-	Specify Spec. →	
12	COLOUR	WHITE	-	To confirm →	
13	MATERIAL PROPERTIES (to be reported in MTC)		-	To confirm →	
13.1	TENSILE STRENGTH, MIN.	3000	PSI	To confirm →	
13.2	ELONGATION, MIN.	75%	%	To confirm →	
13.3	STIFFNESS, MIN.	45000	PSI	Input Value →	
13.4	WATER ABSORPTION	< 0.005 %	%	Input Value →	
13.5	SPECIFIC GRAVITY	2.150 - 2.22	-	Input Value →	
13.6	POROSITY	NIL	-	To confirm →	
14	SHELF LIFE	UNLIMITED	-	To confirm →	
15	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	Y	To confirm →	
16	CERTIFICATION	Material Test Certificate (MTC). MTC to include test report for 13.1 to 13.6 above.	Y	Confirm to supply →	
17	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply →	
18	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97031301475
ITEM NAME O-RING, SEALING RING R22KN
ITEM PART NO P/N 137617261
INTERNATIONAL EQUIVALENT R22KN AWC860 63.4X53X7 GH OF CHESTERTON



SN.	DESCRIPTION	TECHNICAL PARAMETERS	RESPONSE TYPE	VENDOR RESPONSE (Parameters of offered item to be filled by vendor)
1	ITEM	ROD SEAL, SINGLE ACTING, U CUP DESIGN	To confirm →	
2	CROSS SECTION SHAPE	U CUP AS PER SKETCH ABOVE	To confirm →	
3	WORKING TEMPRETURE	-50 TO 85 DEG. C	To confirm →	
4	WORKING PRESSURE	100 BAR	To confirm →	
5	WORKING SPEED	1.0 M/S	To confirm →	
6	MATERIAL	THERMOSTAT POLYURETHANE (AWC800-95A)	To confirm →	
6.1	HARDNESS	95 SHORE A	Input Value →	
6.2	TENSILE STRENGTH	34.5 MPA	Input Value →	
6.3	ELONGATION AT BREAK	400%	Input Value →	
7	SHAFT DIA	53 f7	Input Value →	
8	GROOVE DIA	63.4 (+0.0 / -0.05)	Input Value →	
9	GROOVE WIDTH	7.0 +/- 0.1	Input Value →	
10	SHELF LIFE	Minimum 5 years	To confirm →	
11	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	To confirm →	
12	CERTIFICATION	MATERIAL TEST CERTIFICATE (MTC)	Confirm to supply →	
13	CERTIFICATION	CERTIFICATE OF CONFORMANCE / COMPLIANCE (COC)	Confirm to supply →	
14	VENDOR REMARKS: Vendor to give here details of quoted item and deviations, if any. Specify the Make >> and Model quoted. >> Deviation, if any >>			

NOTE::

VENDOR ARE REQUESTED TO KINLDY FILL THE VALUES AGAINST "INPUT VALUE"
AND CONFIRM AS YES OR NO AGAINST "TO CONFIRM"

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97011201041
ITEM NAME O-RING
ITEM PART NO P/N 157638131
INTERNATIONAL EQUIVALENT -



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	O-RING DIA	1.79	MM	Input Value →	
2	LENGTH OF O-RING	300	MM	Input Value →	
3	MATERIAL	SYNTHETIC RUBBER	-	To confirm →	
4	MATERIAL CONFORMING TO SPEC	MIL STD 417 / ASTM D2000	-	Specify Spec. →	
5	COLOUR	BLACK	-	To confirm →	
6	MATERIAL PROPERTIES (to be reported in MTC)	TB710-A4 B3 C2 E3 E5 F7 S1 Z (Equivalent grade as per ASTM D2000 : M3 DH710-A26 B16 EO36 F17-Z)	-	To confirm →	
6.1	TB710 (DH710)	HIGH TEMPERATURE AND OIL RESISTANT	-	To confirm →	
6.1.1	durometer hardness number	70 +/-5	-	To confirm →	
6.1.2	tensile strength, min.	10	MPA	To confirm →	
6.1.3	elongation, min.	200	%	To confirm →	
6.2	A26	RESISTANT TO HEAT AGING 70 HOURS AT 150 DEG C	-	To confirm →	
6.2.1	Hardness change (max)	10	%	Input Value →	
6.2.2	Tensile change (max)	-25	%	Input Value →	
6.2.3	Elongation change (max)	-30	%	Input Value →	
6.3	B16	COMPRESSION SET AFTER 22 HOURS AT 150 DEG C	-	To confirm →	
6.3.1	Change (max)	30	%	Input Value →	
6.4	EO36	RESISTANT TO OIL AGING, 70 HOURS AT 150 DEG C , ASTM OIL NO. IRM 903 (TEST D 471)		To confirm →	
6.4.1	Hardness change (max)	-15	%	Input Value →	
6.4.2	Tensile change (max)	-30	%	Input Value →	
6.4.3	Elongation change (max)	-30	%	Input Value →	
6.4.4	Volume change (max)	+25	%	Input Value →	
6.5	F17	LOW TEMPERATURE BRITTLENESS AT -40 DEG C FOR 3 MINUTES (TEST D 2137)	-	To confirm →	
6.6	Z	96 HR SEA WATER RESISRANCE @ 80 DEG	-	To confirm →	
6.6.1	hardness change after dipping	+/-10 POINT	%	Input Value →	
6.6.2	change in wt/volume	+5% -0 %	%	Input Value →	
7	SHELF LIFE	MINIMUM 10 YEARS	-	To confirm →	
8	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	-	To confirm →	
9	CERTIFICATION	MTC from NABL/Govt approved lab/OEM lab. MTC to include test report for 6.1 to 6.6 above.	Y	Confirm to supply →	
10	VENDOR REMARKS: Vendor to give here details of quoted item and deviations, if any. <i>Deviation, if any >></i>				

TECHNO-COMMERCIAL CHECKLIST

SL. NO.	TERMS & CONDITION	VENDOR CONFIRMATION /REMARKS / REPLY
1	BIDDER NAME	
2	GEM BID NO	
3	ITEM IS TO BE SUPPLIED AS PER TECHNICAL SPECIFICATION	
4	ALL VENDORS TO PROVIDE POINT WISE REPLY/CONFIRMATION ALONG WITH RELEVANT SUPPORTING DOCUMENTS TO EACH AND EVERY POINT OF PRE-QUALIFICATION REQUIREMENT/PQR FOR ALL ENQUIRY ITEMS. NONCOMPLIANCE OF THESE MAY LEAD TO REJECTION OF OFFER AS THESE ARE ESSENTIAL CONDITION FOR PARTICIPATING IN TENDER ENQUIRY	
5	KINDLY UPLOAD/ATTACH THE SPECIFICATION DETAILS/ CATALOGUE OF OFFERED ITEMS.	
6	CURE DATE SHOULD NOT BE EARLIER THAN 3 MONTHS FROM DATE OF RECEIPT AT BHEL HARIDWAR	
7	VENDOR TO CONFIRM TO PROVIDE MATERIAL & DIMENSIONAL TEST CERTIFICATES OF THE ITEMS ALONG WITH MATERIAL DISPATCH	
8	VENDOR TO CONFIRM TO MENTION PO NUMBER, ITEM DESCRIPTION, MANUFACTURERS NAME, BATCH NUMBER, MILITARY SPECIFICATION NUMBER, CURE DATE & SHELF LIFE IN T.C. AS WELL AS ON ITEMS PACKING.	
9	VENDOR TO CONFIRM TO PROVIDE DOCUMENTS KEEP PROPER CORRELATION WITH PO ITEMS AND THEIR QUANTITY.	
10	VENDOR TO CONFIRM TO PROVIDE CERTIFICATE OF CONFORMANCE ALONG WITH MATERIAL DISPATCH	
11	VENDOR TO CONFIRM TO SUPPLY THE ITEMS AS PER THE ATTACHED PACKING INSTRUCTIONS.	
12	<p>RISK PURCHASE: IN CASE OF ABNORMAL DELAYS (BEYOND THE MAXIMUM LATE DELIVERY PERIOD AS PER LD CLAUSE) IN SUPPLIES / DEFECTIVE SUPPLIES OR NONFULFILLMENT OF ANY OTHER TERMS AND CONDITIONS GIVEN IN PURCHASE ORDER, BHEL MAY CANCEL THE PURCHASE ORDER IN FULL OR PART THEREOF, AND MAY ALSO MAKE THE PURCHASE OF SUCH MATERIAL FROM ELSEWHERE / ALTERNATIVE SOURCE AT THE RISK AND COST OF THE SUPPLIER. BHEL WILL TAKE ALL REASONABLE STEPS TO GET THE MATERIAL FROM ALTERNATE SOURCE AT OPTIMUM COST. IF BIDDER DOES NOT AGREE TO THE ABOVE RISK PURCHASE CLAUSE, BHEL RESERVES THE RIGHT TO REJECT THE OFFER. IN CASE FOR COMPELLING REASONS BHEL ACCEPTS THE OFFER WITHOUT ACCEPTANCE OF THIS CLAUSE BY THE BIDDER AND IN THE EVENTUALITY OF RISK PURCHASE, APPROPRIATE ACTION WILL BE TAKEN AS PER BHEL EXTANT RULES. THIS WILL BE WITHOUT PREJUDICE TO ANY OTHER RIGHT OF BHEL UNDER THE CONTRACT OR UNDER GENERAL LAW.</p>	
13	<p>ACTION AGAINST BIDDERS / VENDOR / SUPPLIER / CONTRACTOR IN CASE OF DEFAULT: IN ORDER TO PROTECT THE COMMERCIAL INTERESTS OF BHEL, BHEL SHALL TAKE ACTION AGAINST SUPPLIES / CONTRACTORS BY WAY OF SUSPENSION OF BUSINESS DEALINGS, WHO EITHER FAIL TO PERFORM OR ARE IN DEFAULT WITHOUT ANY REASONABLE CAUSE, CAUSE LOSS OF BUSINESS/ MONEY/ REPUTATION, INDULGE IN MALPRACTICES, CHEATING, BRIBERY, FRAUD OR ANY OTHER MISCONDUCT OR FORMATION OF CARTELS SO AS TO INFLUENCE THE BIDDING PROCESS OR INFLUENCE THE PRICE ETC.</p> <p>SUSPENSION OF BUSINESS DEALINGS COULD BE IN THE FORM OF "HOLD" OR "BANNING" A SUPPLIER/ CONTRACTOR OR A BIDDER AND SHALL BE AS PER "GUIDELINES FOR SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS/ CONTRACTORS" AVAILABLE AT BHEL'S WEBSITE "https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors"</p>	
14	VENDOR TO CONFIRM TO AGREE ALL THE GENERAL TERMS AND CONDITIONS OF GeM	

Packing/labelling instructions are as follows:

- Each Rubber Item like ORING, SEAL, PACKING, STRIP, GASKET, PAD, GUARD etc should be individually packed & labelled.
- Heat sealable opaque materials should be used unless not practical to prevent distortion of the packaged product.
- Suitable materials for packing are polyethylene (PE)-coated Kraft paper, aluminum foil/paper/PE laminate and opaque PE film. PE is suitable as a single wrapping and should be at least 0.075 mm thick.
- The packing shouldn't be sealed using stapler Pin / Tape. The Packing should be Hot sealed/Machine sealed.
- Packing should be temper-proof & Marking on printed stickers of the labels should be long lasting (enough till the life of the Seals/O-rings)
- Following minimum details are to be labeled/Printed on each packets:
 - i) PO NUMBER
 - ii) ITEM DESCRIPTION
 - iii) MANUFACTURERS NAME
 - iv) MANUFACTURERS BATCH NUMBER
 - v) MILITARY SPECIFICATION NUMBER
 - vi) CURE DATE
 - vii) SHELF LIFE

1. ALL VENDORS TO PROVIDE POINT WISE REPLY/CONFIRMATION ALONG WITH RELEVANT SUPPORTING DOCUMENTS TO EACH AND EVERY POINT OF PRE-QUALIFICATION REQUIREMENT/PQR FOR ALL ENQUIRY ITEMS. NONCOMPLIANCE OF THESE MAY LEAD TO REJECTION OF OFFER AS THESE ARE ESSENTIAL CONDITION FOR PARTICIPATING IN TENDER ENQUIRY
2. KINDLY UPLOAD/ATTACH THE SPECIFICATION DETAILS/ CATALOGUE OF OFFERED ITEMS.
3. KINDLY ARRANGE TO **SUBMIT TECHNO-COMMERCIAL CHECKLIST** ALONG WITH YOUR OFFER.
4. CURE DATE SHOULD NOT BE EARLIER THAN 3 MONTHS FROM DATE OF RECEIPT AT BHEL HARIDWAR.
5. VENDOR TO CONFIRM TO PROVIDE MATERIAL & DIMENSIONAL TEST CERTIFICATES OF THE ITEMS ALONG WITH MATERIAL DISPATCH.
6. VENDOR TO CONFIRM TO MENTION PO NUMBER, ITEM DESCRIPTION, MANUFACTURERS NAME, BATCH NUMBER, MILITARY SPECIFICATION NUMBER, CURE DATE & SHELF LIFE IN T.C. AS WELL AS ON ITEMS PACKING.
7. VENDOR TO CONFIRM TO PROVIDE DOCUMENTS KEEP PROPER CORRELATION WITH PO ITEMS AND THEIR QUANTITY.
8. VENDOR TO CONFIRM TO PROVIDE CERTIFICATE OF CONFORMANCE ALONG WITH MATERIAL DISPATCH.
9. VENDOR TO CONFIRM TO SUPPLY THE MATERIAL AS PER THE ATTACHED PACKING INSTRUCTIONS.
10. VENDOR TO CONFIRM TO AGREE ALL THE GEM GENERAL TERMS AND CONDITIONS.
11. MSE/MII: THE SUPPLIER NEEDS TO SUBMIT/UPDATE MSE/MII CREDENTIALS ON GEM PORTAL DURING PROFILE UPDATION/ OFFER SUBMISSION STAGE. THE MSE DATA SUBMITTED IS CROSS VERIFIED BY GEM WITH GOVT. OF INDIA UDYAM/NSIC DATABASE THROUGH API INTEGRATION ON REAL TIME BASIS AND FOR MII, A SELF DECLARATION IS BEING GIVEN AND AUTHENTICATED BY AADHAR OTP. IF THE SELLER FAILS TO CLAIM MSE/MII PROVISION ON GEM PORTAL AT PROFILE UPDATION/BID SUBMISSION STAGE, THE SAID SELLER WILL BECOME INELIGIBLE FOR GETTING THE MSE/MII BENEFITS FOR THAT BID AUTOMATICALLY. THE VENDOR CAN ALWAYS CONTACT THE GEM HELPDESK, IN CASE OF ANY ISSUES.
12. THE PRICE QUOTE BY BIDDER SHOULD BE INCLUSIVE OF GST & SHOULD BE ON BHEL HEEP HARIDWAR STORES BASIS.
13. BIDDER'S OFFER IS LIABLE TO BE REJECTED IF THEY DON'T UPLOAD ANY OF THE CERTIFICATES / DOCUMENTS SOUGHT IN THE BID DOCUMENT, ATC AND CORRIGENDUM IF ANY.
14. **RISK PURCHASE:** IN CASE OF ABNORMAL DELAYS (BEYOND THE MAXIMUM LATE DELIVERY PERIOD AS PER LD CLAUSE) IN SUPPLIES / DEFECTIVE SUPPLIES OR NONFULFILLMENT OF ANY OTHER TERMS AND CONDITIONS GIVEN IN PURCHASE ORDER, BHEL MAY CANCEL THE PURCHASE ORDER IN FULL OR PART THEREOF, AND MAY ALSO MAKE THE PURCHASE OF SUCH MATERIAL FROM ELSEWHERE / ALTERNATIVE SOURCE AT THE RISK AND COST OF THE SUPPLIER. BHEL WILL TAKE ALL REASONABLE STEPS TO GET THE MATERIAL FROM ALTERNATE SOURCE AT OPTIMUM COST. IF BIDDER DOES NOT AGREE TO THE ABOVE RISK PURCHASE CLAUSE, BHEL RESERVES THE RIGHT TO REJECT THE OFFER. IN CASE FOR COMPELLING REASONS BHEL ACCEPTS THE OFFER WITHOUT ACCEPTANCE OF THIS CLAUSE BY THE BIDDER AND IN THE EVENTUALITY OF RISK PURCHASE, APPROPRIATE ACTION WILL BE TAKEN AS PER BHEL EXTANT RULES. THIS WILL BE WITHOUT PREJUDICE TO ANY OTHER RIGHT OF BHEL UNDER THE CONTRACT OR UNDER GENERAL LAW.
15. **ACTION AGAINST BIDDERS / VENDOR / SUPPLIER / CONTRACTOR IN CASE OF DEFAULT:**
IN ORDER TO PROTECT THE COMMERCIAL INTERESTS OF BHEL, BHEL SHALL TAKE ACTION AGAINST SUPPLIES / CONTRACTORS BY WAY OF SUSPENSION OF BUSINESS DEALINGS, WHO EITHER FAIL TO PERFORM OR ARE IN DEFAULT WITHOUT ANY REASONABLE CAUSE, CAUSE LOSS OF BUSINESS/ MONEY/ REPUTATION, INDULGE IN MALPRACTICES, CHEATING, BRIBERY, FRAUD OR ANY OTHER MISCONDUCT OR FORMATION OF CARTELS SO AS TO INFLUENCE THE BIDDING PROCESS OR INFLUENCE THE PRICE ETC.

SUSPENSION OF BUSINESS DEALINGS COULD BE IN THE FORM OF "HOLD" OR "BANNING" A SUPPLIER/ CONTRACTOR OR A BIDDER AND SHALL BE AS PER "GUIDELINES FOR SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS/ CONTRACTORS" AVAILABLE AT BHEL'S WEBSITE <https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors>

16. BIDDERS ARE ADVISED TO CHECK APPLICABLE GST ON THEIR OWN BEFORE QUOTING. BUYER WILL NOT TAKE ANY RESPONSIBILITY IN THIS REGARDS. GST REIMBURSEMENT WILL BE AS PER ACTUALS OR AS PER APPLICABLE RATES (WHICHEVER IS LOWER), SUBJECT TO THE MAXIMUM OF QUOTED GST %.
17. BIDDER SHALL SUBMIT THE FOLLOWING DOCUMENTS ALONG WITH THEIR BID FOR VENDOR CODE CREATION:
A. COPY OF PAN CARD B. COPY OF GSTIN C. COPY OF MSE CERIFICATE
18. DEDICATED /TOLL FREE TELEPHONE NO. FOR SERVICE SUPPORT: BIDDER/OEM MUST HAVE DEDICATED/TOLL FREE TELEPHONE NO. FOR SERVICE SUPPORT.
19. DATA SHEET OF THE PRODUCT(S) OFFERED IN THE BID, ARE TO BE UPLOADED ALONG WITH THE BID DOCUMENTS. BUYERS CAN MATCH AND VERIFY THE DATA SHEET WITH THE PRODUCT SPECIFICATIONS OFFERED. IN CASE OF ANY UNEXPLAINED MISMATCH OF TECHNICAL PARAMETERS, THE BID IS LIABLE FOR REJECTION.
20. SCOPE OF SUPPLY (BID PRICE TO INCLUDE ALL COST COMPONENTS): ONLY SUPPLY OF GOODS.
21. PRODUCTS SUPPLIED SHALL BE NONTOXIC AND HARMLESS TO HEALTH. IN THE CASE OF TOXIC MATERIALS, MATERIAL SAFETY DATA SHEET MAY BE FURNISHED ALONG WITH THE MATERIAL.
22. WHILE GENERATING INVOICE IN GEM PORTAL, THE SELLER MUST UPLOAD SCANNED COPY OF GST INVOICE AND THE SCREENSHOT OF GST PORTAL CONFIRMING PAYMENT OF GST.

23. PAYMENT TERMS SHALL BE AS PER FOLLOWINGS:

- a) **For Non-MSME bidders:** 100% payment along with taxes, freight & insurance will be made after receipt and acceptance of material and within 90 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of Purchase Order. (MSME means Micro, Small & Medium Enterprises) (THIS IS IN SUPERSESSION OF 10 DAYS' TIME AS PROVIDED IN CLAUSE 12 OF GEM GTC).
- b) **FOR MSE BIDDER:** For MSEs (covered under MSME Act) which are registered and periodically renewed with BHEL, the payment will be made within 45 days or as prescribed in the relevant act. Benefits of MSE (such as EMD Waiver, Tender fee exemption, Price preference, Payment preference etc.) will be given only to those MSE Vendors who are manufacturers of offered items against the NIT. No MSE benefits shall be provided to Agents / Stockists /Dealers / Traders etc. for the items offered but not manufactured by themselves."
- c) **FOR MEDIUM ENTERPRISES:** 100% payment along with taxes, freight & insurance will be made after receipt and acceptance of material and within 60 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of Purchase Order.
- d) Please note that vendor to adhere to the payment terms as per above. No deviation in payment terms shall be accepted. Vendor to submit their offer accordingly.