

PRODUCTS

- ▶ O - RINGS
- ▶ ROTARY SHAFT SEALS - OIL SEALS
- ▶ X - RINGS
- ▶ ANTI - EXTRUSION BACKUP RINGS
- ▶ SPECIAL SEALING PRODUCTS
 - BELLOWS
 - METAL BONDED SEALS
 - V SEALS
 - DIAPHRAGMS
- ▶ EXTRUDED CORDS & PROFILE
- ▶ CUSTOM MOLDED & EXTRUDED RUBBER PRODUCTS



Kumar Rubber Store

HOUSE OF 'O' RINGS

Specialist in Precision Moulded Rubber Components & Extruded Rubber Products

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Opera House, Mumbai - 400 004
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CATALOGUE



Kumar Rubber Store

HOUSE OF 'O' RINGS



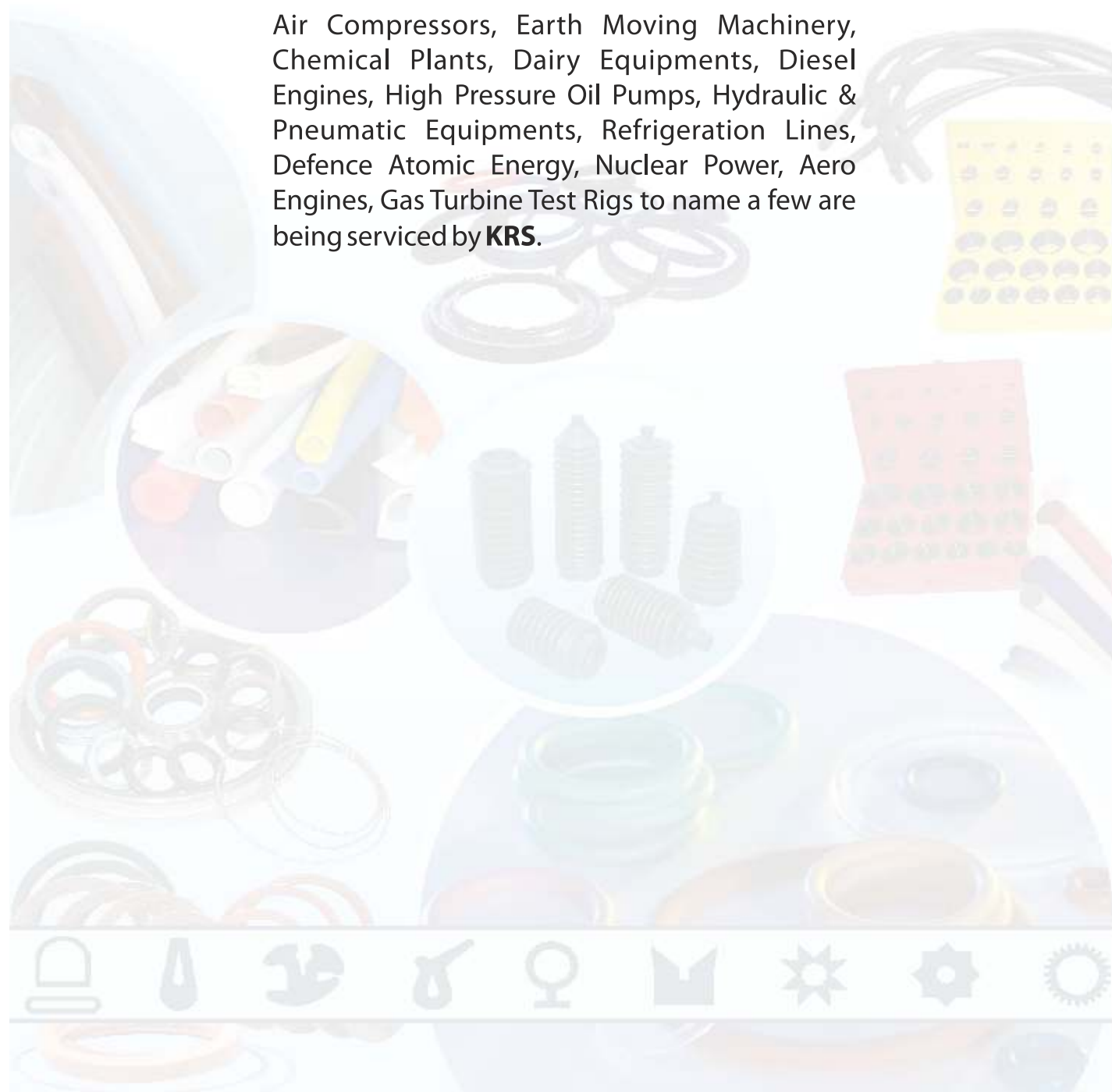


About Us

KRS has been engaged in the field of Rubber Manufacturing for the last four decades.

With a full fledged laboratory, **KRS** has been successfully indigenising rubber moulded & extruded products for a host of Industries.

Air Compressors, Earth Moving Machinery, Chemical Plants, Dairy Equipments, Diesel Engines, High Pressure Oil Pumps, Hydraulic & Pneumatic Equipments, Refrigeration Lines, Defence Atomic Energy, Nuclear Power, Aero Engines, Gas Turbine Test Rigs to name a few are being serviced by **KRS**.



Notes



Lined area for notes, featuring horizontal dotted lines for writing.



Notes

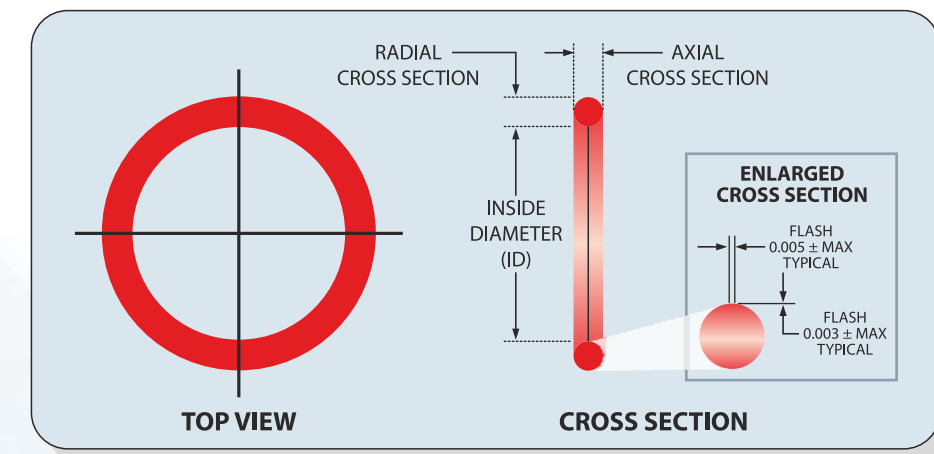
Handwritten notes area with horizontal lines and a background image of various mechanical parts and tools.

O-Ring



O RINGS ARE TORUS OR DOUGHNUT SHAPED RINGS DEFINED BY THEIR INNER DIAMETER (I.D.) & CROSS SECTION (C.S.)

KRS PROVIDES QUALITY O RINGS FROM A SMALL AS 0.74 MM (I.D.) TO 1800 MM (I.D.) GIANT SIZES WITHOUT JOINTS (DIE MADE) IN ALL ELASTOMERS.



O RINGS ARE MANUFACTURED ACCORDING TO VARIOUS INTERNATIONAL STANDARDS VIZ. AS568 A, DIN 3771, BS 1806, SMS 1586, METRIC, JIS 2401, AMS, NAS, CUSTOM STANDARDS ETC.



ORING KITS REPRESENT EXCELLENT VALUE FOR MONEY IN TERMS OF QUANTITY, QUALITY & CONVENIENCE FOR MAINTENANCE ENGINEERS.

ORING KITS CONTAIN INCH SIZE, METRIC SIZE ORINGS & CORDS, POPULARLY KNOWN A SPLICING KITS.

WE ALSO ASSEMBLE SETS OF ORINGS, CORDS FOR REFURBISHMENT OF SPECIFIC EQUIPMENT AND CUSTOM BRAND THEM FOR YOU.

SPECIALIZED IN VITON® ELASTOMERS

- WE ALSO MANUFACTURE CUSTOM DESIGNS AS PER CUSTOMER SPECIFICATIONS.
- FOR MORE DETAILS ON SIZES AND DESIGN TYPE, KINDLY CONTACT US
- VITON® IS A REGISTERED TRADEMARK OF DUPONT



O-Ring Groove Detail Chart

CROSS SECTION (M.M)	RADIAL INSTALLATION					AXIAL INSATLLATION		RADIUS
	GROOVE DEPTH	GROOVE WIDTH				GROOVE DEPTH	GROOVEWIDTH	
	DYNAMIC	STATIC	NO BACKUP	1 BACKUP	2 BACKUP			
1.00 / 1.02	-	0.70	1.40	-	-	0.70	1.40	0.20
1.50 / 1.52	1.25	1.10	2.00	3.00	4.00	1.10	2.10	0.30
*1.78 / 1.80	1.45	1.30	2.40	3.80	5.20	1.30	2.60	0.30
1.9	1.55	1.40	2.60	4.00	5.40	1.40	2.70	0.30
1.98 / 2.00	1.65	1.50	2.70	4.10	5.50	1.50	2.80	0.30
2.2	1.85	1.60	3.00	4.40	5.80	1.60	3.00	0.30
2.40	2.05	1.80	3.20	4.60	6.00	1.80	3.30	0.30
2.50	2.15	1.85	3.30	4.70	6.10	1.85	3.40	0.30
*2.62 / 2.65	2.25	2.00	3.60	5.00	6.40	2.00	3.80	0.30
2.70	2.30	2.05	3.60	5.00	6.40	2.05	3.80	0.30
2.92 / 2.95	2.50	2.20	3.90	5.30	6.70	2.20	4.00	0.60
3.00	2.60	2.30	4.00	5.40	6.80	2.30	4.00	0.60
3.10	2.70	2.40	4.10	5.50	6.90	2.40	4.10	0.60
3.50	3.05	2.65	4.60	6.00	7.40	2.65	4.70	0.60
*3.53 / 3.55	3.10	2.70	4.80	6.20	7.60	2.70	5.00	0.60
4.00	3.50	3.10	5.20	6.90	8.60	3.10	5.30	0.06
4.50	4.00	3.50	5.80	7.50	9.20	3.50	5.90	0.60
5.00	4.40	4.00	6.60	8.30	10.00	4.00	6.70	0.60
*5.33 / 5.30	4.70	4.30	7.10	9.00	10.90	4.30	7.30	0.60
5.50	4.80	4.50	7.10	9.00	10.90	4.50	7.30	0.60
5.70	5.00	4.60	7.20	9.00	11.00	4.60	7.40	0.60
6.00	5.30	4.90	7.40	9.30	11.20	4.90	7.60	0.60
6.50	5.70	5.40	8.00	9.90	11.90	5.40	8.20	1.00
*6.99 / 7.00	6.10	5.80	9.50	12.30	15.10	5.80	9.70	1.00
7.50	6.60	6.30	9.70	12.50	15.30	6.30	9.90	1.00
8.00	7.10	6.70	9.80	12.60	15.40	6.70	10.00	1.00
8.40	7.50	7.10	10.00	12.80	15.60	7.10	10.30	1.00
9.00	8.10	7.70	10.60	13.40	16.30	7.70	10.90	1.50
9.50	8.60	8.20	11.00	13.80	16.70	8.20	11.40	1.50
10.00	9.10	8.60	11.60	14.50	17.40	8.60	12.00	2.00
12.00	11.00	10.60	13.50	16.40	19.40	10.60	14.00	2.00

* TOLERANCES AS PER ISO 3601 RECOMMENDATION

* ALL DIMENSION ARE IN NM

Notes



Notes section with horizontal lines for writing.



Elastomer Comparison Chart

ELASTOMERS	NATURAL RUBBER	SBR	CHLOROPRENE	NBR	BUTYL	EPDM	POLYURETHANE	SILICONE	FLUOROCARBON
PHYSICAL PROPERTIES									
TENSILE STRENGTH	1	2	2	2	2	2	1+	4	3
ELONGATION	2	2	1	2	1	2	1	1	3
COMPRESSION SET	2	2	2	2	3	3	1	1	1
RESILIENCE	1+	2	1	2	3	2	1	2	3
ELECTRICAL RESISTIVITY	1	1	3	4	1	1	2	1	2
MECHANICAL RESISTANCE									
TEAR	1	3	2	2	2	4	1	3	3
ABRASION	1	1	1	1	2	2	1	3	2
CUT GROWTH	1	2	2	2	1	2	2	3	3
TEMPERATURE RESISTANCE									
HEAT	2	2	2	2	1	1	2	1	1+
LOW TEMPERATURE	2	3	3	3	3	2	3	1	4
ENVIRONMENTAL RESISTANCE									
WATER	1	1	2	1	1	1	2	2	2
ACID	2	2	2	2	1	1	3	3	1
ALKALI	2	2	2	2	1	1	3	3	3
ALIPHATIC HYDROCARBONS	4	4	2	1	4	4	1	2	2
AROMATIC HYDROCARBONS	4	4	4	2	2	3	3	3	1
CHLORINATED SOLVENTS	4	4	4	4	4	4	2	3	3
KETONES	2	2	3	4	2	1	4	3	4
ALCOHOL	2	3	3	1	1	4	2	2	1
LUBRICATING OILS	4	4	2	1	4	4	2	4	2
SYNTHETIC OILS	3	4	4	2	3	3	4	3	2
HYDRAULIC OILS	4	3	2	3	3	2	4	4	2
FUELS	4	4	2	1	4	4	1	3	1
WEATHER	3	3	1	2	1	1	1	1	1
OXIDATION	2	2	2	2	1	2	1	1	1+
OZONE	4	4	1	4	1	1	1	1	1+



O-Ring Sizes

KRS Part No.	AS-568 Part No.	Inner Dia	Tolerance	Cross Section	Tolerance
10-07	001	0.74	0.10	1.02	0.08
13-11	002	1.07	0.10	1.27	0.08
15-14	003	1.42	0.10	1.52	0.08
18-18	004	1.78	0.13	1.78	0.08
18-26	005	2.57	0.13	1.78	0.08
18-29	006	2.90	0.13	1.78	0.08
18-37	007	3.68	0.13	1.78	0.08
18-45	008	4.47	0.13	1.78	0.08
18-53	009	5.28	0.13	1.78	0.08
18-60	010	6.07	0.13	1.78	0.08
18-76	011	7.65	0.13	1.78	0.08
18-92	012	9.25	0.13	1.78	0.08
18-108	013	10.82	0.13	1.78	0.08
18-124	014	12.42	0.13	1.78	0.08
18-140	015	14.00	0.13	1.78	0.08
18-156	016	15.60	0.13	1.78	0.08
18-171	017	17.17	0.23	1.78	0.08
18-188	018	18.77	0.23	1.78	0.08
18-203	019	20.35	0.23	1.78	0.08
18-220	020	21.95	0.23	1.78	0.08
18-235	021	23.52	0.23	1.78	0.08
18-252	022	25.12	0.25	1.78	0.08
18-267	023	26.70	0.25	1.78	0.08
18-283	024	28.30	0.25	1.78	0.08
18-299	025	29.87	0.25	1.78	0.08
18-315	026	31.47	0.28	1.78	0.08
18-330	027	33.05	0.28	1.78	0.08
18-346	028	34.65	0.33	1.78	0.08
18-378	029	37.82	0.33	1.78	0.08
18-409	030	41.00	0.33	1.78	0.08
18-442	031	44.17	0.38	1.78	0.08
18-473	032	47.35	0.38	1.78	0.08
18-505	033	50.52	0.46	1.78	0.08
18-533	034	53.30	0.46	1.78	0.08
18-568	035	56.87	0.46	1.78	0.08
18-600	036	60.05	0.46	1.78	0.08
18-628	037	62.80	0.46	1.78	0.08
16-665	038	66.40	0.51	1.78	0.08
18-696	039	69.57	0.51	1.78	0.08
18-728	040	72.75	0.51	1.78	0.08
18-759	041	75.92	0.61	1.78	0.08
18-823	042	82.27	0.61	1.78	0.08
18-886	043	88.62	0.61	1.78	0.08
18-950	044	94.97	0.69	1.78	0.08
18-1013	045	101.32	0.69	1.78	0.08
18-1077	046	107.67	0.76	1.78	0.08
18-1140	047	114.02	0.76	1.78	0.08
18-1204	048	120.37	0.76	1.78	0.08
18-1267	049	126.72	0.94	1.78	0.08
18-1330	050	133.07	0.94	1.78	0.08

* ALL DIMENSIONS ARE IN MM



O-Ring Sizes

KRS Part No.	AS-568 Part No.	Inner Dia	Tolerance	Cross Section	Tolerance
26-12	102	1.24	0.13	2.62	0.08
26-20	103	2.06	0.13	2.62	0.08
26-28	104	2.84	0.13	2.62	0.08
26-36	105	3.63	0.13	2.62	0.08
24-48	106	4.82	0.13	2.62	0.08
26-52	107	5.23	0.13	2.62	0.08
26-60	108	6.02	0.13	2.62	0.08
26-77	109	7.59	0.13	2.62	0.08
26-92	110	9.19	0.13	2.62	0.08
26-108	111	10.77	0.13	2.62	0.08
26-124	112	12.37	0.13	2.62	0.08
26-139	113	13.94	0.18	2.62	0.08
26-155	114	15.54	0.23	2.62	0.08
26-171	115	17.12	0.23	2.62	0.08
26-187	116	18.72	0.23	2.62	0.08
26-203	117	20.29	0.25	2.62	0.08
26-219	118	21.89	0.25	2.62	0.08
26-235	119	23.47	0.25	2.62	0.08
26-251	120	25.07	0.25	2.62	0.08
26-266	212	26.64	0.25	2.62	0.08
26-282	122	28.24	0.25	2.62	0.08
26-298	123	29.82	0.30	2.62	0.08
26-314	124	31.42	0.30	2.62	0.08
26-330	125	32.99	0.30	2.62	0.08
26-346	126	34.59	0.30	2.62	0.08
26-362	127	36.17	0.30	2.62	0.08
26-378	128	37.77	0.30	2.62	0.08
26-393	129	39.34	0.38	2.62	0.08
26-409	130	40.94	0.38	2.62	0.08
26-425	131	42.52	0.38	2.62	0.08
26-441	132	44.12	0.38	2.62	0.08
26-457	133	45.69	0.38	2.62	0.08
26-473	134	47.29	0.38	2.62	0.08
26-489	135	48.9	0.43	2.62	0.08
26-505	136	50.47	0.43	2.62	0.08
26-521	137	52.07	0.43	2.62	0.08
26-536	138	53.64	0.43	2.62	0.08
26-552	139	55.25	0.43	2.62	0.08
26-568	140	56.82	0.43	2.62	0.08
26-584	141	58.42	0.51	2.62	0.08
26-600	142	59.99	0.51	2.62	0.08
26-616	143	61.60	0.51	2.62	0.08
26-632	144	63.17	0.51	2.62	0.08
26-648	145	64.77	0.51	2.62	0.08
26-663	146	66.34	0.51	2.62	0.08
26-680	147	67.95	0.56	2.62	0.08
26-695	148	69.52	0.56	2.62	0.08
26-713	149	71.12	0.56	2.62	0.08
26-728	150	72.69	0.56	2.62	0.08
26-759	151	75.87	0.56	2.62	0.08

* ALL DIMENSIONS ARE IN MM

Construction Materials



• CHLOROPRENE RUBBER (CR - NEOPRENE®)

CHLOROPRENE Popularly known as NEOPRENE exhibits good Ozone, Aging, Chemical, Abrasion & Flex Fatigue Resistance

Temperature : -40°C to 120°C

Chemical Resistance : Silicon Oil and Grease, Water and its Solvents, Refrigerants, Ammonia & Carbon Dioxide Ozone, Weathering and Aging"

• CHLOROSULFONATED POLYETHYLENE (CSM - HYPALON®)

CHLORINE in CHLOROSULFONATED POLYETHYLENE imparts resistance to Flame and Mineral Oils and also improve Cold Flexibility

Temperature : -20°C to 120°C

Chemical Resistance: Oxidising Media, Water, Aging Grease, Many Acids.

• PERFLUORO ELASTOMER (FFKM)

PERFLUOROELASTOMER (FFKM) exhibits unique resistance even in the harshest environments. It exhibits unbeatable resistance to Acids, Alkalis, Steam, Ketones.

Temperature : -25°C to 300°C

Chemical Resistance : Aliphatic, Aromatic and Chlorinated Hydrocarbons, Organic and In-Organic Acids, Water, Steam and Vacuum.

• VITON® IS A REGISTERED TRADEMARK OF DUPONT

• TEFLON® IS A REGISTERED TRADEMARK OF DUPOINT

• NEOPRENE® IS A REGISTERED TRADEMARK OF DUPOINT

• HYPALON® IS A REGISTERED TRADEMARK OF DUPOINT



Construction Materials

- **HYDROGENATED NITRILE (HNBR)** HNBR compounds exhibits improved heat resistance to the general NBR compounds. They also possess superior mechanical properties particularly high strength
Temperature: -40°C to 150°C
- **FLUOROCARBON (FKM - VITON)®**
FLUOROCARBON (FKM - VITON)® has excellent resistance to High temperature, Ozone, Oxygen, Mineral Oils, Aliphatic and Aromatic Hydrocarbons and many chemicals
Temperature: -20°C to 204°C
Chemical Resistance: Mineral Oil, Grease, Non Flammable Hydraulic Fluids, Aliphatic and Aromatic Hydrocarbons Ozone Weathering, Aging, High Vacuum, Steam and Alcohol.
- **SILICON (VMQ)**
SILICON has been Cold flexibility, Excellent heat resistance, Good Insulating Properties, Good Ozone & Weathering resistance, as well being neutral in its properties
Temperature: -50°C to 232°C
Chemical Resistance: Ozone, Aging, Weathering, Animal & Vegetable Oil, Greases, Moderate Resistance to Mineral Oil.
- **FLUOROSILICONE (FVMQ)**
FLUOROSILICONE (FVMQ) offers improved fuel and oil resistance in comparison to regular Silicon (VMQ), Mechanical and Physical properties being the same.
Temperature: -70°C to 175°C
- **POLYURETHANE (AU)**
POLYURETHANE has the highest Wear resistance, Tensile strength and Elasticity. They have high volume application in seals for hydraulic cylinders.
Temperature: -30°C to 80°C
Chemical Resistance: Ozone, Aging, Mineral Oil, Aliphatic Hydrocarbons, Water (upto 50 Degree C)
- **STYRENE - BUTADIENE RUBBER (SBR)**
SBR previously known as "BUNA S" was first produced as a replacement to natural rubber.
Temperature: -40°C to 105°C
Chemical Resistance: Water, Alcohol, Non -Mineral Oil Fluid, Silicon Oil and Grease, Weak Acids.



O-Ring Sizes

KRS Part No.	AS-568 Part No.	Inner Dia	Tolerance	Cross Section	Tolerance
26-822	152	82.22	0.61	2.62	0.08
26-886	153	88.57	0.61	0.62	0.08
26-949	154	94.92	0.71	0.62	0.08
26-1013	155	101.27	0.71	0.62	0.08
26-1076	156	107.62	0.76	2.62	0.08
26-1140	157	113.97	0.76	2.62	0.08
26-1203	158	120.32	0.76	2.62	0.08
26-1267	159	126.67	0.89	2.62	0.08
26-1330	160	133.02	0.89	2.62	0.08
26-1394	161	139.37	0.89	2.62	0.08
26-1457	162	145.72	0.89	2.62	0.08
26-1521	163	152.07	0.89	2.62	0.08
26-1584	164	158.42	1.02	2.62	0.08
26-1647	165	164.77	1.02	2.62	0.08
26-1710	166	171.12	1.02	2.62	0.08
26-1775	167	177.47	1.02	2.62	0.08
26-1838	168	183.82	1.14	2.62	0.08
26-1901	169	190.17	1.14	2.62	0.08
26-1965	170	196.52	1.14	2.62	0.08
26-2028	171	202.87	1.14	2.62	0.08
26-2091	172	209.22	1.27	2.62	0.08
26-2156	173	215.57	1.27	2.62	0.08
26-2219	174	221.92	1.27	2.62	0.08
26-2283	175	228.27	1.27	2.62	0.08
26-2346	176	234.62	1.40	2.62	0.08
26-2409	177	240.97	1.40	2.62	0.08
26-2473	178	247.32	1.40	2.62	0.08
35-43	201	4.34	0.13	3.53	0.10
35-59	202	5.94	0.13	3.53	0.10
35-75	203	7.52	0.13	3.53	0.10
35-91	204	9.12	0.13	3.53	0.10
35-107	205	10.69	0.13	3.53	0.10
35-123	206	12.29	0.13	3.53	0.10
35-139	207	13.87	0.13	3.53	0.10
35-155	208	15.47	0.23	3.53	0.10
35-170	209	17.04	0.23	3.53	0.10
35-186	210	18.64	0.25	3.53	0.10
35-202	211	20.22	0.25	3.53	0.10
35-218	212	21.82	0.25	3.53	0.10
35-234	213	23.39	0.25	3.53	0.10
35-250	214	24.99	0.25	3.53	0.10
35-266	215	26.57	0.25	3.53	0.10
35-282	216	28.17	0.30	3.53	0.10
35-298	217	29.74	0.30	3.53	0.10
35-313	218	31.34	0.30	3.53	0.10
35-329	219	32.92	0.30	3.53	0.10
35-345	220	34.52	0.30	3.53	0.10
35-361	221	36.09	0.30	3.53	0.10
35-377	222	37.69	0.38	3.53	0.10
35-408	223	40.87	0.38	3.53	0.10

* ALL DIMENSIONS ARE IN MM



O-Ring Sizes

KRS Part No.	AS-568 Part No.	Inner Dia	Tolerance	Cross Section	Tolerance
35-440	224	44.04	0.38	3.53	0.10
35-472	225	47.22	0.46	3.53	0.10
35-504	226	50.39	0.46	3.53	0.10
35-536	227	53.57	0.46	3.53	0.10
35-567	228	56.74	0.51	3.53	0.10
35-599	229	59.92	0.51	3.53	0.10
35-631	230	63.09	0.51	3.53	0.10
35-663	231	66.27	0.51	3.53	0.10
35-694	232	69.44	0.61	3.53	0.10
35-726	233	72.62	0.61	3.53	0.10
35-759	234	75.79	0.61	3.53	0.10
35-790	235	78.97	0.61	3.53	0.10
35-821	236	82.14	0.61	3.53	0.10
35-853	237	85.32	0.61	3.53	0.10
35-885	238	88.49	0.61	3.53	0.10
35-917	239	91.67	0.71	3.53	0.10
35-948	240	94.84	0.71	3.53	0.10
35-980	240	98.02	0.71	3.53	0.10
35-1012	242	101.19	0.71	3.53	0.10
35-1044	243	104.37	0.71	3.53	0.10
35-1075	244	107.54	0.76	3.53	0.10
35-1107	245	110.72	0.76	3.53	0.10
35-1139	246	113.89	0.76	3.53	0.10
35-1171	247	117.07	0.76	3.53	0.10
35-1202	248	120.24	0.76	3.53	0.10
35-1234	249	123.42	0.89	3.53	0.10
35-1266	250	126.59	0.89	3.53	0.10
35-1298	251	129.77	0.89	3.53	0.10
35-1329	252	132.94	0.89	3.53	0.10
35-1361	253	136.12	0.89	3.53	0.10
35-1393	254	139.29	0.89	3.53	0.10
35-1425	255	142.47	0.89	3.53	0.10
35-1456	256	145.64	0.89	3.53	0.10
35-1488	257	148.82	0.89	3.53	0.10
35-1520	258	151.99	0.89	3.53	0.10
35-1583	259	158.34	1.02	3.53	0.10
35-1647	260	164.69	1.02	3.53	0.10
35-1710	261	171.04	1.02	3.53	0.10
35-1774	262	177.39	1.02	3.53	0.10
35-1837	263	183.74	1.14	3.53	0.10
35-1901	264	190.09	1.14	3.53	0.10
35-1964	265	196.44	1.14	3.53	0.10
35-2028	266	202.79	1.14	3.53	0.10
35-2091	267	209.14	1.27	3.53	0.10
35-2155	268	215.49	1.27	3.53	0.10
35-2218	269	221.84	1.27	3.53	0.10
35-2282	270	228.19	1.27	3.53	0.10
35-2345	271	234.54	1.40	3.53	0.10
35-2409	272	240.89	1.40	3.53	0.10
35-2472	273	247.24	1.40	3.53	0.10

* ALL DIMENSIONS ARE IN MM

Construction Materials



- **BUTYL RUBBER (IIR)**

BUTYL RUBBER (IIR) has very low permeability rate, good electrical properties, resistance to weathering & ozone.

- **Temperature:** -40°C to 120°C

Chemical Resistance: Hot Water, Steam, Ozone, Ageing, & Weather Resistance, Silicon Oil & Grease.

- **POLYTETRAFLUOROETHYLENE (PTFE-TEFLON)®**

PTFE exhibits outstanding chemical resistance to the harshest media. Non flammable, inert, self lubricating are some of its special properties

- **Temperature:** 200°C to 260°C

Other Filled grades of PTFE via BRONZE, CARBON, GLASS, MOS₂ have better mechanical properties than virgin grades.

- **NATURAL RUBBER (NR)**

NATURAL RUBBER, the oldest rubber available having outstanding resistance to tear abrasion and cut growth.

Chemical Resistance: Water Oxidation, Alcohol and Ketones, Moderate Resistance to Acids, Alkalis.

- **ETHYLENE PROPYLENE RUBBER (EPDM)**

EPDM is a Co-Polymer of Ethylene and Propylene and is mostly used in Brake systems having Glycol based Fluids.

Temperature: -55°C to 150°C

Chemical Resistance : Hot Water & Steam, Glycol based brake fluids, Organic & Inorganic Acids Phosphate Ester Based Fluids, Soda, Potassium, Sillicon Oil & Grease, Ozone, Aging & Weather resistance

- **ACRYLONITRILE BUTADIENE (NBR - NITRILE)**

NITRILE RUBBER (NBR) is the general term for Acrylonitrile Butadiene Rubber. Acrylonitrile content varies from 18 to 50%. Higher the Acrylonitrile content, better the resistance to fuel & oil, and at the same time affecting elasticity & compression set.

- **Temperature:-** 30°C to 100°C

Chemical Resistance : Propane, Butane, Petroleum, Mineral Oil, Greases, Diesel Fuel, Fuel Oils, HFA, HFB, HFC Fluids, Dilute Acids, Alkali, Salt Solutions and Water.

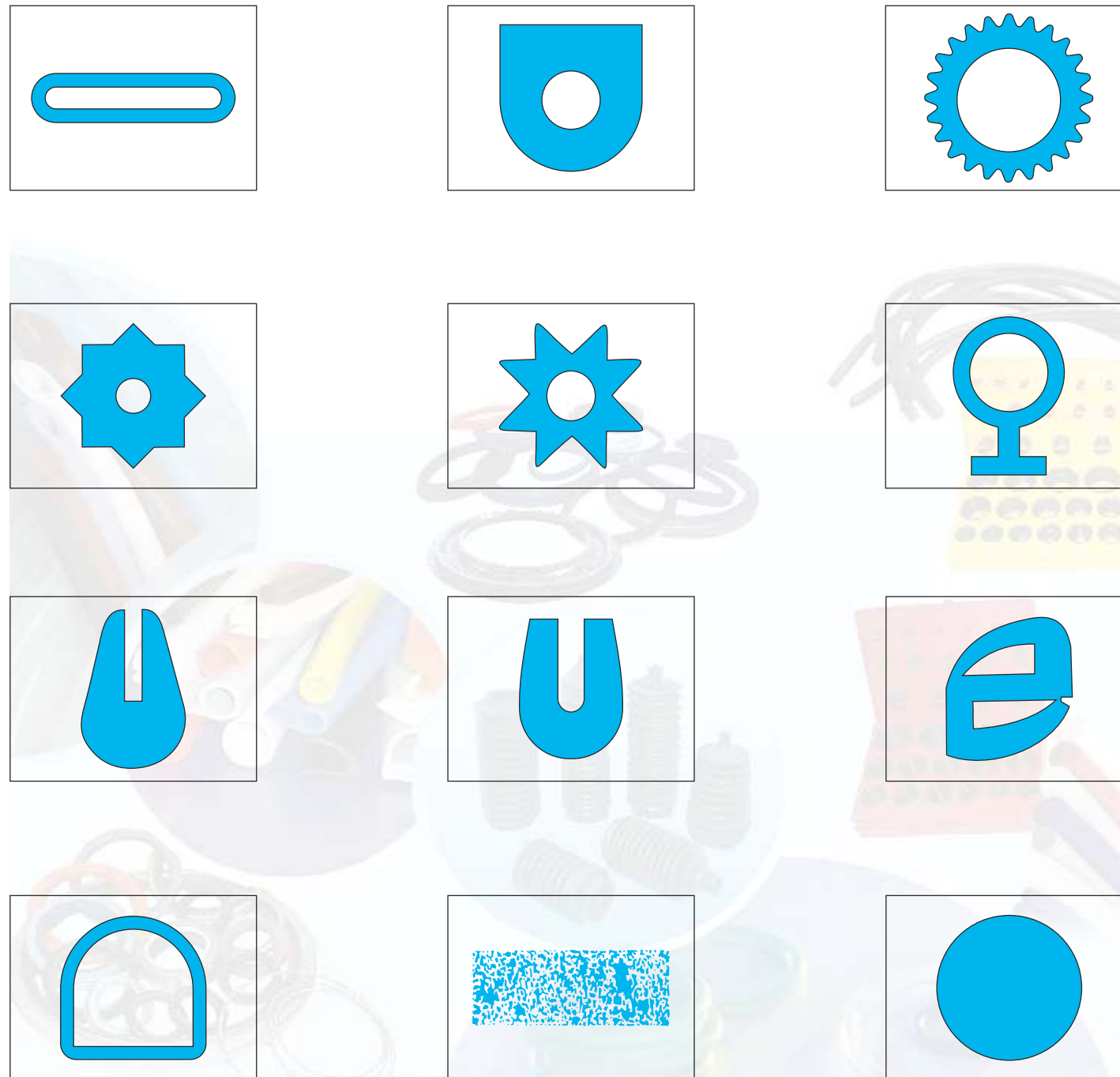
- **CARBOXYLATED NITRILE (XNBR)**

CARBOXYLATED NITRILE has been proven tear and abrasion resistance compared to NBR. It is often used for dynamic applications.

Temperature:- 30°C to 100°C



Extruded Cords & Profiles



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O-Ring Sizes



KRS Part No.	AS-568 Part No.	Inner Dia	Tolerance	Cross Section	Tolerance
35-2536	274	253.59	1.40	3.53	0.10
35-2663	275	266.29	1.40	3.53	0.10
35-2790	276	278.99	1.65	3.53	0.10
35-2917	277	291.69	1.65	3.53	0.10
35-3044	278	304.39	1.65	3.53	0.10
35-3298	279	329.79	1.65	3.53	0.10
35-3552	280	355.19	1.65	3.53	0.10
35-3806	281	380.59	1.65	3.53	0.10
35-4052	282	405.26	1.91	3.53	0.10
35-4306	283	430.66	2.03	3.53	0.10
35-4561	284	456.06	2.16	3.53	0.10
53-105	309	10.46	0.13	5.33	0.13
53-121	310	12.07	0.13	5.33	0.13
53-136	311	13.64	0.18	5.33	0.13
53-152	312	15.24	0.23	5.33	0.13
53-168	313	16.81	0.23	5.33	0.13
53-184	314	18.42	0.25	5.33	0.13
53-200	315	19.99	0.25	5.33	0.13
53-216	316	21.59	0.25	5.33	0.13
53-232	317	23.16	0.25	5.33	0.13
53-250	318	24.77	0.25	5.33	0.13
53-264	319	26.34	0.25	5.33	0.13
53-280	320	27.94	0.30	5.33	0.13
53-295	321	29.51	0.30	5.33	0.13
53-315	322	31.12	0.30	5.33	0.13
53-327	323	32.69	0.30	5.33	0.13
53-343	324	34.29	0.30	5.33	0.13
53-375	325	37.47	0.38	5.33	0.13
53-406	326	40.64	0.38	5.33	0.13
53-438	327	43.82	0.38	5.33	0.13
53-470	328	46.99	0.38	5.33	0.13
53-502	329	50.17	0.46	5.33	0.13
53-533	330	53.34	0.46	5.33	0.13
53-565	331	56.52	0.46	5.33	0.13
53-597	332	59.69	0.46	5.33	0.13
53-629	333	62.87	0.51	5.33	0.13
53-660	334	66.04	0.51	5.33	0.13
53-692	335	69.22	0.51	5.33	0.13
53-724	336	72.39	0.51	5.33	0.13
53-756	337	75.57	0.61	5.33	0.13
53-787	338	78.74	0.61	5.33	0.13
53-819	339	81.92	0.61	5.33	0.13
53-851	340	85.09	0.61	5.33	0.13
53-883	341	88.27	0.61	5.33	0.13
53-914	342	91.44	0.71	5.33	0.13
53-946	343	94.62	0.71	5.33	0.13
53-978	344	97.79	0.71	5.33	0.13
53-1010	345	100.97	0.71	5.33	0.13
53-1041	346	104.14	0.71	5.33	0.13
53-1073	347	107.32	0.76	5.33	0.13

* ALL DIMENSIONS ARE IN MM



O-Ring Sizes

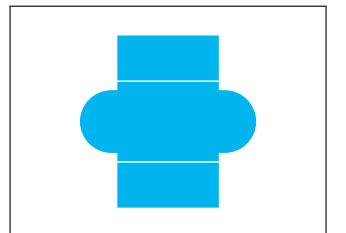
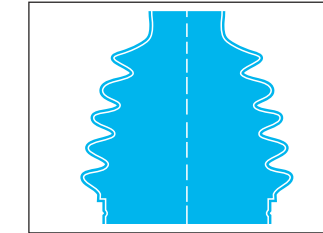
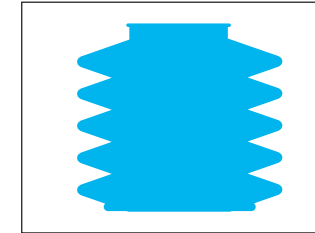
KRS Part No.	AS-568 Part No.	Inner Dia	Tolerance	Cross Section	Tolerance
53-1105	348	110.49	0.76	5.33	0.13
53-1137	349	113.67	0.76	5.33	0.13
53-1169	350	116.84	0.76	5.33	0.13
*53-1175	----	117.50	0.76	5.33	0.13
53-1206	351	120.65	0.76	5.33	0.13
53-1238	352	123.80	0.76	5.33	0.13
53-1264	353	126.37	0.94	5.33	0.13
53-1295	354	129.54	0.94	5.33	0.13
53-1327	355	132.72	0.94	5.33	0.13
53-1359	356	135.89	0.94	5.33	0.13
53-1397	357	139.69	0.94	5.33	0.13
53-1425	358	142.69	0.94	5.33	0.13
53-1455	359	145.42	0.94	5.33	0.13
53-1486	360	148.59	0.94	5.33	0.13
53-1518	361	151.77	0.94	5.33	0.13
53-1581	362	158.12	1.02	5.33	0.13
53-1645	363	164.47	1.02	5.33	0.13
53-1708	364	170.82	1.02	5.33	0.13
53-1772	365	177.17	1.02	5.33	0.13
53-1835	366	183.52	1.14	5.33	0.13
53-1899	367	189.87	1.14	5.33	0.13
53-1962	368	196.22	1.14	5.33	0.13
53-2026	369	202.57	1.14	5.33	0.13
53-2089	370	208.92	1.27	5.33	0.13
53-2153	371	215.27	1.27	5.33	0.13
53-2261	372	221.62	1.27	5.33	0.13
53-2280	373	227.97	1.27	5.33	0.13
53-2343	374	234.32	1.40	5.33	0.13
53-2407	375	240.67	1.40	5.33	0.13
53-2470	376	247.02	1.40	5.33	0.13
53-2534	377	253.37	1.40	5.33	0.13
53-2661	378	266.07	1.52	5.33	0.13
53-2788	379	278.77	1.52	5.33	0.13
53-2915	380	291.47	1.65	5.33	0.13
53-3042	381	304.17	1.65	5.33	0.13
53-3295	382	329.57	1.65	5.33	0.13
53-3550	383	354.97	1.78	5.33	0.13
53-3804	384	380.37	1.78	5.33	0.13
53-4053	385	405.26	1.91	5.33	0.13
53-4307	386	430.66	2.03	5.33	0.13
53-4561	387	456.06	2.16	5.33	0.13
53-4814	388	481.41	2.29	5.33	0.13
53-5068	389	506.81	2.41	5.33	0.13
53-5322	390	532.21	2.41	5.33	0.13
53-5576	391	557.61	2.54	5.33	0.13
53-5827	392	582.68	2.67	5.33	0.13
53-6081	393	608.08	2.79	5.33	0.13
53-6335	394	633.48	2.92	5.33	0.13
53-6589	395	658.88	3.05	5.33	0.13
70-1137	425	113.67	0.84	6.99	0.15
70-1168	426	116.84	0.84	6.99	0.15

* ALL DIMENSIONS ARE IN MM

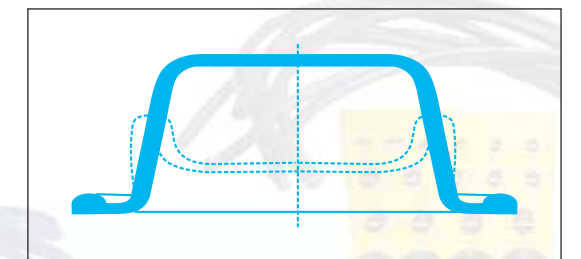
Special Sealing Products



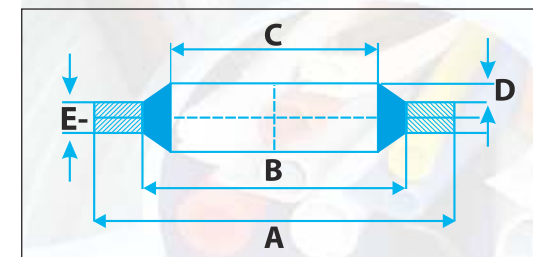
RUBBER BELLOWS



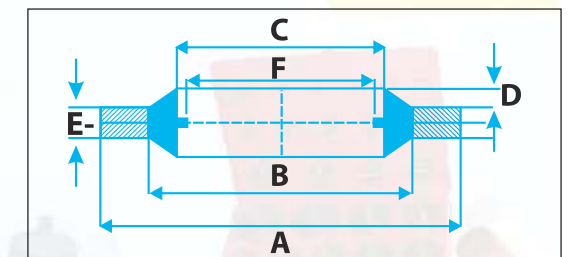
DIAPHRAGMS



METAL BONDED SEALS

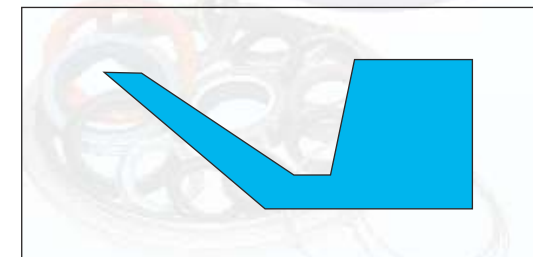


STANDARD DESIGN

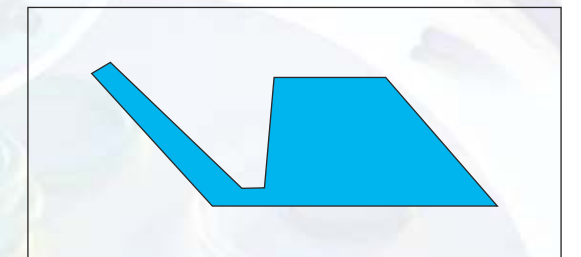


SELF CENTRALISING DESIGN

V-SEALS



VA TYPE



VS TYPE

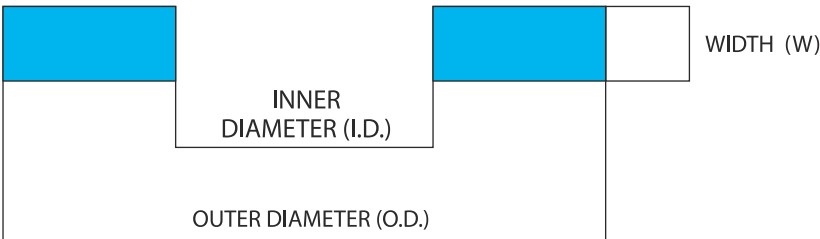
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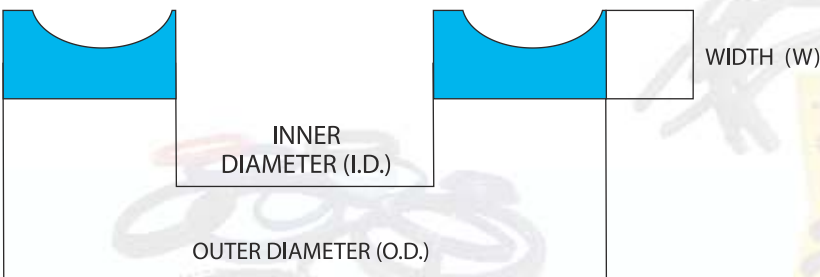


Anti-Extrusion Backup Rings

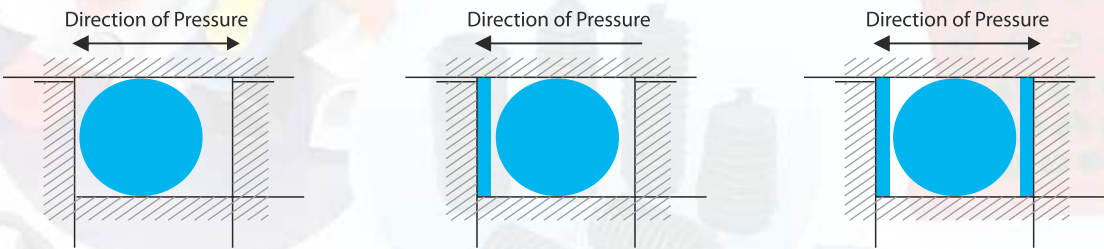
FLAT BACKUP RINGS



CONTOUR DESIGN BACKUP RING



BACKUP RINGS PREVENT EXTRUSIONS OF O-RINGS IN HIGH PRESSURES, USUALLY ABOVE 1500 PSI & COMPENSATE FOR LOOSE FITTING COMPONENTS.



ONE BACKUP RING SHOULD BE USED ON EACH SIDE OF THE ORING IN DOUBLE ACTING ASSEMBLIES.

IF POSSIBLE, TWO BACKUPS SHOULD BE USED EVEN IN SINGLE ACTING ASSEMBLIES.

IF ONLY ONE BACKUP RING IS USED, THE ORING SHOULD BE PLACED BETWEEN THE PRESSURE SOURCE AND THE BACKUP RING

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O-Ring Sizes

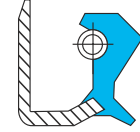
KRS Part No.	AS-568 Part No.	Inner Dia	Tolerance	Cross Section	Tolerance
70-1200	427	120.02	0.84	6.99	0.15
70-1232	428	123.19	0.84	6.99	0.15
70-1264	429	126.37	0.94	6.99	0.15
70-1295	430	129.54	0.94	6.99	0.15
70-1327	431	132.72	0.94	6.99	0.15
70-1359	432	135.89	0.94	6.99	0.15
70-1391	433	139.07	0.94	6.99	0.15
70-1429	434	142.24	0.94	6.99	0.15
70-1454	435	145.42	0.94	6.99	0.15
70-1486	436	148.59	0.94	6.99	0.15
70-1518	437	151.77	0.94	6.99	0.15
70-1581	438	158.12	1.02	6.99	0.15
70-1645	439	164.47	1.02	6.99	0.15
70-1708	440	170.82	1.02	6.99	0.15
70-1772	441	177.17	1.02	6.99	0.15
70-1835	442	183.52	1.14	6.99	0.15
70-1899	443	189.87	1.14	6.99	0.15
70-1962	444	196.22	1.14	6.99	0.15
70-2026	445	202.57	1.14	6.99	0.15
70-2153	446	215.27	1.40	6.99	0.15
70-2280	447	227.97	1.40	6.99	0.15
70-2407	448	240.67	1.40	6.99	0.15
70-2534	449	253.37	1.40	6.99	0.15
70-2661	450	266.07	1.52	6.99	0.15
70-2788	451	278.77	1.52	6.99	0.15
70-2915	452	291.47	1.52	6.99	0.15
70-3042	453	304.17	1.52	6.99	0.15
70-3169	454	316.87	1.52	6.99	0.15
70-3296	455	329.57	1.52	6.99	0.15
70-3423	456	342.27	1.78	6.99	0.15
70-3550	457	354.97	1.78	6.99	0.15
70-3677	458	367.67	1.78	6.99	0.15
70-3804	459	380.37	1.78	6.99	0.15
70-3931	460	393.07	1.78	6.99	0.15
70-4053	461	405.26	1.91	6.99	0.15
70-4180	462	417.96	1.91	6.99	0.15
70-4307	463	430.66	2.03	6.99	0.15
70-4434	464	443.36	2.03	6.99	0.15
70-4561	465	456.06	2.16	6.99	0.15
70-4688	466	468.76	2.16	6.99	0.15
70-4815	467	481.46	2.29	6.99	0.15
70-4941	468	494.46	2.29	6.99	0.15
70-5069	469	506.86	2.41	6.99	0.15
70-5323	470	532.26	2.41	6.99	0.15
70-5577	471	557.66	2.54	6.99	0.15
70-5827	472	582.68	2.67	6.99	0.15
70-6081	473	608.08	2.79	6.99	0.15
70-6335	474	633.48	2.92	6.99	0.15
70-6589	475	658.88	3.05	6.99	0.15

* ALL DIMENSIONS ARE IN MM



Rotary Shaft Seals - Oil Seals

Oilseal Design Interchange Chart

						
KRS	MI1	MI2	MO1	MO2	MC1	MC2
DIN3760	A	AS	B	BD	C	CS
DFW	BA	BASL	B1	B1SL	B2	B2SL
GOETZE	827N	827S	822N	822S	824N	824S
KACO	DG	DGS	DF	DFS	SFK	DFSK
STEFA	CB	CC	BB	BC	DB	DC
NOK	SC	TC	SB	TB	SA	TA

* OVER 5000 DIFFERENT SIZES AVAILABLE ON REQUEST FROM THE ABOVE DESIGNS

* WE MANUFACTURE OVER 100 OTHER DESIGNS, KINDLY CONTACT US FOR MORE DETAILS.

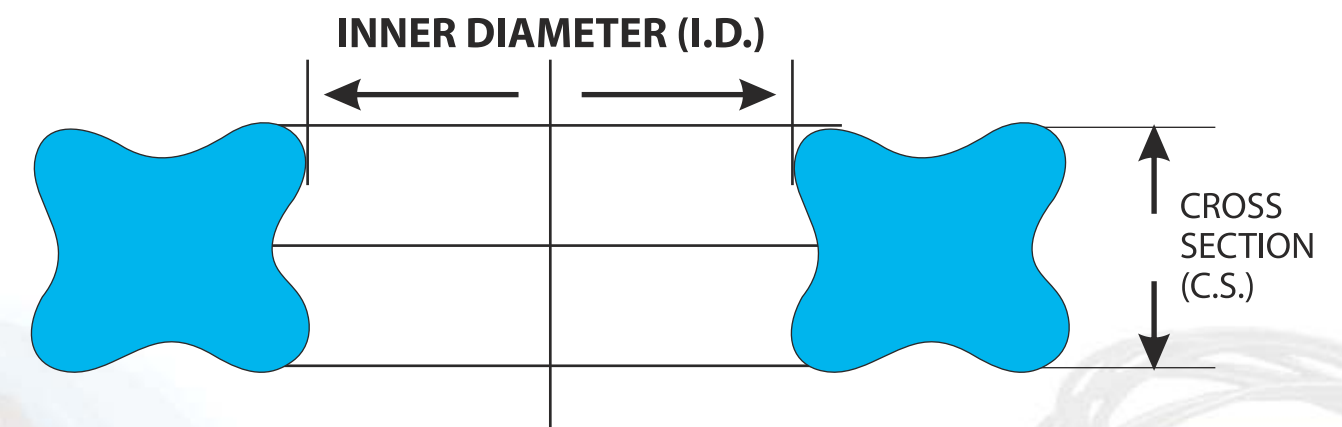


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Four Lobed Rings



X RINGS ALSO KNOWN AS FOUR LOBED RINGS ARE USED IN VARIETY OF DYNAMIC AND STATIC SEALING APPLICATIONS

THE FOUR LOBED DESIGN PROVIDES TWICE THE SEALING SURFACE IN COMPARISON TO A STANDARD ORING.

THE DOUBLE SEAL ACTION REQUIRES LESS SQUEEZE, THEREBY REDUCING FRICTION AND IMPROVING SEAL LIFE

X RINGS OUTPERFORM STANDARD ORINGS IN ROTARY APPLICATIONS.

THE FOUR LOBED DESIGN AVOIDS SPIRAL TWISTING.

IT ALLOWS THE USE OF A MORE NARROW GROOVE WIDTH THAN A STANDARD ORING GROOVE

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