

METRIC SECTION

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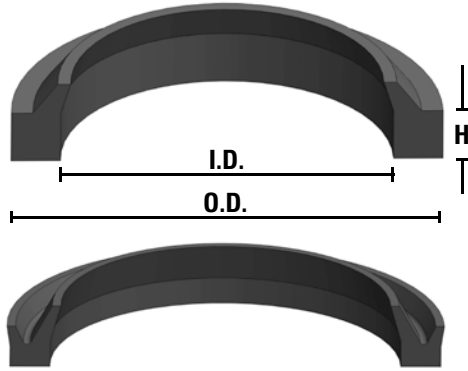
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METRIC

[SEAL INFORMATION]

MSW



MATERIAL

92A URETHANE

TEMPERATURE RANGE

-30° TO +220° F

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

Molded in urethane, this wiper features a lip on the outer diameter to aid in contaminant exclusion.

PART NUMBER	LIST PRICE
MSW-5X12X2.5	\$ 2.50
MSW-14X20X3.5	3.57
MSW-15X21X3.5	5.58
MSW-15X27X5	6.07
MSW-16X22X3	3.29
MSW-16X22X3.5	3.29
MSW-16X24X5	6.32
MSW-18X24X3.5	3.40
MSW-18X26X4.8	12.52
MSW-20X26X3	3.12
MSW-20X28X4.5	1.83
MSW-20X28X4.8	4.02
MSW-20X28X5	3.00
MSW-22X30X5	3.16
MSW-24X32X5	6.57
MSW-25X33X4.5	2.60
MSW-25X33X4.8	4.63
MSW-25X33X5	3.34
MSW-25X34X4.5	22.25
MSW-28X36X5	3.62
MSW-30X38X5	4.24
MSW-30X40X2.8	6.04
MSW-30X42X6	5.31
MSW-32X40X3.5	6.39
MSW-32X40X4.8	5.07
MSW-32X40X5	5.07
MSW-35X40X3.5	6.26
MSW-35X45X3.8	5.55

PART NUMBER	LIST PRICE
MSW-36X44X5	\$ 5.70
MSW-40X48X4	6.07
MSW-40X48X4.5	3.94
MSW-40X48X5	3.94
MSW-40X50X5	6.50
MSW-40X50X6	4.34
MSW-40X50X7	9.96
MSW-42X50X4	6.70
MSW-42X50X5	6.29
MSW-45X53X5	4.47
MSW-45X55X5	7.32
MSW-45X55X6	4.48
MSW-47X53X5	7.39
MSW-50X58X5	5.47
MSW-50X60X5	7.48
MSW-50X60X6	5.08
MSW-50X60X7	7.72
MSW-50X65X4	7.58
MSW-55X65X5	7.77
MSW-55X65X6	6.34
MSW-56X64X5	7.08
MSW-56X66X5	7.46
MSW-56X66X6	8.26
MSW-56X66X6.3	12.68
MSW-60X68X5	6.91
MSW-60X70X5.3	11.85
MSW-60X70X7	9.09
MSW-60X73X7	7.20

PART NUMBER	LIST PRICE
MSW-63X71X5	\$ 7.38
MSW-63X73X5	7.92
MSW-63X73X6.1	11.50
MSW-63X73X6.3	11.98
MSW-65X73X5	8.21
MSW-65X75X5	13.25
MSW-65X75X7	10.47
MSW-65X76X5.8	12.48
MSW-65X77X7	10.25
MSW-65X79X7	7.04
MSW-70X78X5	9.29
MSW-70X80X5	8.65
MSW-70X80X6	7.86
MSW-70X82X7	8.48
MSW-70X83X7	7.31
MSW-75X83X5	9.18
MSW-75X85X6	8.21
MSW-75X87X7	12.85
MSW-75X88X7	8.11
MSW-78X88X5.2	11.89
MSW-78X92X7	9.50
MSW-80X88X5	8.88
MSW-80X90X6	8.37
MSW-80X92X7	10.53
MSW-80X93X7	8.11
MSW-85X93X5	8.62
MSW-85X97X7	10.64
MSW-85X98X5	10.38

PART NUMBER	LIST PRICE
MSW-85X98X7	\$12.25
MSW-90X98X5	9.84
MSW-90X100X6	12.40
MSW-90X100X6.3	12.30
MSW-90X100X6.8	12.73
MSW-90X102X5.8	11.31
MSW-90X102X7	9.90
MSW-90X103X7	18.02
MSW-95X105X6	16.78
MSW-95X107X7	9.68
MSW-95X108X7	16.78
MSW-97X105X4.7	11.46
MSW-100X110X6	17.69
MSW-100X112X7	10.55
MSW-100X113X7	16.78
MSW-100X115X9.5	16.73
MSW-105X113X5	12.37
MSW-105X120.4X7.5	13.08
MSW-110X120X6	18.65
MSW-110X122X7	11.25
MSW-110X123X7	18.16
MSW-112X124X7	17.66
MSW-115X127X7	12.43
MSW-118X126X4.7	11.90
MSW-120X128X5	11.15
MSW-120X130X5	13.43
MSW-120X130X6	20.37
MSW-120X132X7	12.08

MSW SNAP-IN D-WIPERS

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WIPERS

PART NUMBER	LIST PRICE
MSW-120X133X7	\$18.08
MSW-125X137X7	12.73
MSW-125X140X9	20.15
MSW-125X138X7	21.12
MSW-125X140X10	12.88
MSW-128X140X7	12.47
MSW-128X143.4X7.5	17.05
MSW-130X142X7	13.03
MSW-140X148X5	18.89
MSW-140X152X7	13.91

PART NUMBER	LIST PRICE
MSW-140X153X7	\$23.39
MSW-140X155X8.7	19.01
MSW-140X155X10	14.63
MSW-143X151X5.2	17.91
MSW-145X157X7	14.85
MSW-150X162X7	14.42
MSW-150X165X10	33.33
MSW-160X168X5	19.53
MSW-160X172X7	13.90
MSW-160X175X9	20.64

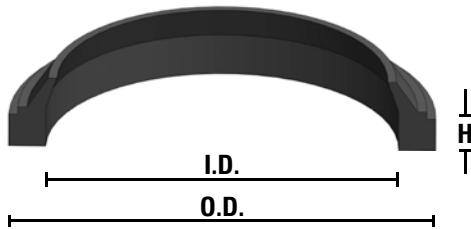
PART NUMBER	LIST PRICE
MSW-160X175X10	\$18.61
MSW-160X179X9	72.53
MSW-170X185X10	30.00
MSW-180X193X7	30.57
MSW-180X195X10	56.55
MSW-180X195.4X7.5	35.62
MSW-180X200X10	40.16
MSW-183X193X5	27.06
MSW-190X210X10	30.74
MSW-195X210X9	31.66

PART NUMBER	LIST PRICE
MSW-200X215X10	\$28.56
MSW-200X220X10	52.54
MSW-210X225X10	41.53
MSW-212X227.4X7.5	59.00
MSW-220X235X10	45.28
MSW-240X255X10	51.84
MSW-280X300X10	67.39

MSWS SNAP-IN WIPERS

[SEAL INFORMATION]

MSWS



MATERIAL	URETHANE
TEMPERATURE RANGE	-30° TO +220° F
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

This light duty wiper is molded in polyurethane and features a double stepped shoulder to fit tightly in the gland throat.

PART NUMBER	LIST PRICE
MSW-16X24X4-S	\$ 1.70
MSW-20X28X4-S	2.50
MSW-22X30X4-S	1.85
MSW-25X33X4-S	1.70
MSW-28X36X4-S	2.17
MSW-30X38X4-S	2.28

PART NUMBER	LIST PRICE
MSW-32X40X4-S/N	\$ 2.17
MSW-35X43X4-S	2.28
MSW-36X44X4-S	2.17
MSW-40X48X4-S	2.61
MSW-42X50X4-S	3.88
MSW-45X53X4-S	2.39

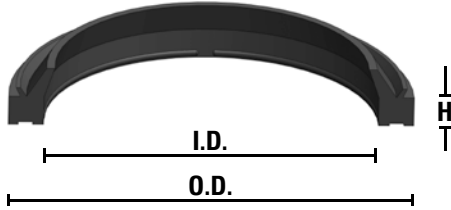
PART NUMBER	LIST PRICE
MSW-50X58X4-S	\$ 2.17
MSW-55X63X4-S	3.48
MSW-56X64X4-S	3.26
MSW-60X68X4-S	3.26
MSW-63X71X4-S	3.26
MSW-65X73X4-S	3.37

PART NUMBER	LIST PRICE
MSW-70X78X4-S	\$ 2.61
MSW-75X83X4-S	3.37
MSW-80X88X4-S	3.69
MSW-90X98X4-S	3.04
MSW-100X108X4-S	4.46

METRIC

[SEAL INFORMATION]

MSWP



MATERIAL

92A URETHANE

TEMPERATURE RANGE

-30° TO +220° F

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

This wiper features a lip on top of the shoulder that makes contact with the throat of the groove. This serves to prevent contaminants from entering the groove.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MSW-20X28X4-P	\$ 5.20	MSW-36X44X4-P	\$ 6.09	MSW-56X64X4-P	\$ 7.82	MSW-80X88X4-P	\$ 13.24
MSW-22X30X-P	5.20	MSW-40X48X4-P	6.43	MSW-60X68X4-P	7.82	MSW-80X90X6.3-P	12.47
MSW-25X33X4-P	5.20	MSW-40X48X5-P	5.87	MSW-63X71X4-P	8.67	MSW-85X93X4-P	10.17
MSW-30X38X4-P	5.65	MSW-45X53X4-P	6.69	MSW-65X73X4-P	13.52	MSW-90X98X4-P	12.82
MSW-32X40X4-P	6.09	MSW-50X58X4-P	7.48	MSW-70X78X4-P	11.44	MSW-100X108X4-P	11.73
MSW-32X40X5-P	5.58	MSW-50X58X5-P	6.56	MSW-70X80X6.3-P	15.81	MSW-140X152X5.5-P	32.49
MSW-35X43X4-P	6.09	MSW-55X63X4-P	7.82	MSW-75X83X4-P	9.12		



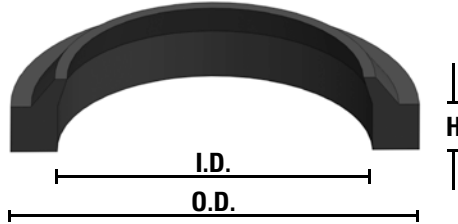
MSWN SNAP-IN WIPERS

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WIPERS

[SEAL INFORMATION]

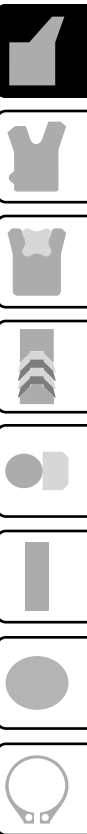
MSWN



MATERIAL	90A NITRILE
TEMPERATURE RANGE	-22° TO +212° F
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

This medium duty wiper is molded in nitrile rubber.

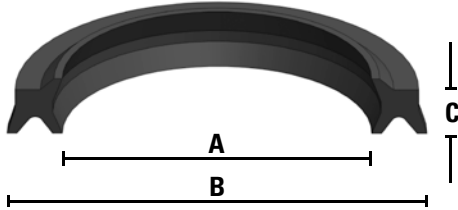
PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MSW-18X26X5-N	\$ 2.05	MSW-40X49X3-N	\$ 12.20	MSW-63X73X5-N	\$ 4.11	MSW-100X112X7-N	\$ 6.62
MSW-20X28X4-N	4.11	MSW-40X52X6-N	3.42	MSW-65X75X5-N	5.25	MSW-105X117X7-N	16.22
MSW-28X36X4-N	4.34	MSW-45X57X4.8-N	13.72	MSW-70X80X5-N	4.68	MSW-110X122X7-N	9.23
MSW-30X42X6-N	3.31	MSW-45X57X6-N	4.11	MSW-70X82X6-N	6.28	MSW-140X152X7-N	10.74
MSW-32X42X5-N	6.26	MSW-50X62X5-N	3.99	MSW-70X82X7-N	4.68	MSW-140X155X10-N	11.57
MSW-32X44X6-N	5.84	MSW-50X62X6-N	3.65	MSW-75X83X5-N	5.98	MSW-160X175X10-N	12.27
MSW-35X47X6-N	8.35	MSW-55X65X5-N	3.88	MSW-75X87X3.8-N	16.17	MSW-200X220X10-N	13.17
MSW-36X48X6-N	4.11	MSW-55X67X6-N	6.85	MSW-80X90X6-N	9.38	MSW-240X260X10-N	14.62
MSW-38X46X5-N	3.88	MSW-56X66X5-N	3.31	MSW-85X97X7-N	5.82	MSW-245X265X10-N	14.91
MSW-40X48X3-N	10.68	MSW-60X70X5-N	4.79	MSW-90X102X7-N	6.51	MSW-250X270X10-N	15.20



METRIC

[SEAL INFORMATION]

MSWH

**MATERIAL**

90A URETHANE

TEMPERATURE RANGE

-30° TO +220° F

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

Molded in urethane, this wiper features a double lip that prevents fluid that seeps by the rod seal from exiting the cylinder.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MSW-11.2X19.2X4.5-H	\$ 2.16	MSW-31.5X39.5X5-H	\$ 2.91	MSW-53X61X5-H	\$ 4.62	MSW-90X100X6-H	\$ 7.53
MSW-12X18X3.6-H	15.30	MSW-32X40X5-H	5.09	MSW-55X63X5-H	4.79	MSW-98X108X4.5-H	17.28
MSW-14X20X3.6-H	13.80	MSW-32X40X6-H	16.04	MSW-56X64X5-H	4.79	MSW-98X108X6-H	9.90
MSW-14X22X4.5-H	2.20	MSW-35X43X5-H	3.25	MSW-56X66X5.3-H	22.60	MSW-100X110X6-H	10.95
MSW-16X22X3.6-H	4.81	MSW-35.5X43.5X5-H	3.44	MSW-60X68X5-H	5.11	MSW-110X122X7-H	27.71
MSW-16X24X4.5-H	2.35	MSW-35X34X3.6-H	20.08	MSW-63X71X5-H	5.11	MSW-110X125X7.5-H	25.63
MSW-18X24X3.6-H	11.28	MSW-35X44X3.6-H	21.81	MSW-65X73X5-H	13.51	MSW-112X122X6-H	12.17
MSW-18X26X4.5-H	2.35	MSW-36X44X4.5-H	6.78	MSW-67X75X5-H	5.11	MSW-117X127X5.5-H	24.09
MSW-20X28X4.5-H	2.44	MSW-36X44X6-H	20.46	MSW-70X80X5-H	10.27	MSW-125X138X7-H	13.19
MSW-22X28X3.6-H	16.35	MSW-40X48X5-H	3.68	MSW-70X80X5.5-H	15.53	MSW-135X147X7-H	28.47
MSW-22X30X4.5-H	4.89	MSW-40X48X6-H	16.46	MSW-70X80X6-H	6.37	MSW-136X146X5.5-H	26.23
MSW-22.4X30.4X4.5-H	2.52	MSW-40X50.6X4.6-H	4.29	MSW-71X81X6-H	6.37	MSW-136X149X7-H	14.29
MSW-23.5X31.5X4.5-H	2.52	MSW-42X51X4.5-H	17.28	MSW-75X85X5.5-H	13.86	MSW-140X153X7-H	14.52
MSW-25X32X3.75-H	6.94	MSW-45X53X4.5-H	4.03	MSW-75X85X6-H	6.75	MSW-140X155X7.5-H	43.77
MSW-25X33X4.5-H	2.66	MSW-45X53X5-H	6.44	MSW-79X89X4.5-H	17.36	MSW-145X158X7-H	14.52
MSW-25X33X4.8-H	5.10	MSW-50X58X4.5-H	8.21	MSW-80X90X5.3-H	13.27	MSW-155X165X5.5-H	29.82
MSW-28X36X4.5-H	2.66	MSW-50X58X5-H	4.41	MSW-80X90X6-H	6.75	MSW-160X174X7-H	16.25
MSW-28X36X5-H	6.37	MSW-50X58X6-H	22.75	MSW-80X92X7-H	20.00	MSW-176X186X5.5-H	50.42
MSW-30X38X4.5-H	5.59	MSW-50X59X3.6-H	7.08	MSW-85X95X6-H	6.99	MSW-185X197X7-H	46.37
MSW-30X38X5-H	2.74	MSW-50X60X5-H	16.40	MSW-90X100X5.3-H	24.91	MSW-198X208X5.5-H	52.96

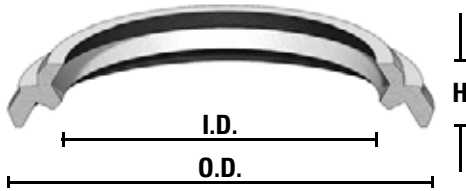
MSWL SNAP-IN WIPERS

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WIPERS

[SEAL INFORMATION]

MSWL



MATERIAL	94A URETHANE
TEMPERATURE RANGE	-31° TO +230° F
PART NUMBER	(Prefix) - (ID) X (OD) X (H)-(Suffix)

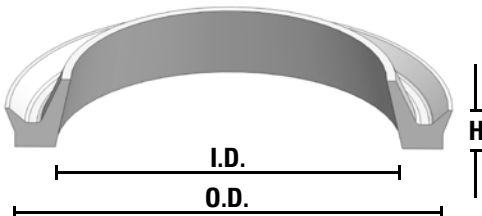
The MSWL-L elongated excluder is specifically designed for severe operating conditions and heavy contamination in construction and forestry machinery and mobile hydraulics. Made of premium urethane, it has a robust outer scraper lip ideal for mitigating side pressure through high contact force against the rod.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MSW-100X112.2X8.1-L	\$ 20.09	MSW-125X137.2X8.1-L	\$ 25.62	MSW-60X68.8X6.3-L	\$ 8.61	MSW-85X97.2X8.1-L	\$ 12.75
MSW-105X117.2X8.1-L	20.28	MSW-45X53.8X6.3-L	8.09	MSW-70X82.2X8.1-L	10.59	MSW-90X102.2X8.1-L	15.26
MSW-110X122.2X8.1-L	22.79	MSW-50X58.8X6.3-L	8.27	MSW-75X87.2X8.1-L	10.95	MSW-95X107.2X8.1-L	15.42
MSW-115X127.2X8.1-L	23.68	MSW-56X64.8X6.3-L	8.44	MSW-80X92.2X8.1-L	11.31		

MSWPA SNAP-IN WIPERS

[SEAL INFORMATION]

MSWPA



MATERIAL	NYLON
TEMPERATURE RANGE	-40° TO +212° F
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

This wiper is a heavy duty scraper molded from a hard nylon material.

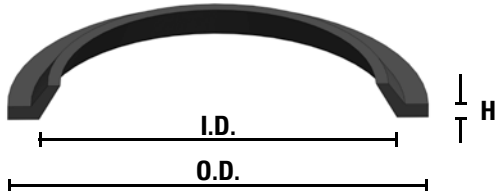
PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MSW-25X38X6-PA	\$ 4.11	MSW-40X53X6-PA	\$ 4.67	MSW-60X73X6-PA	\$ 6.16	MSW-80X93X6-PA	\$ 8.33
MSW-28X41X6-PA	4.11	MSW-45X58X6-PA	4.56	MSW-63X76X6-PA	7.64	MSW-90X103X6-PA	9.13
MSW-30X43X6-PA	4.45	MSW-50X63X6-PA	5.36	MSW-65X78X6-PA	11.88	MSW-100X113X6-PA	9.92
MSW-32X45X6-PA	4.11	MSW-55X68X6-PA	7.99	MSW-70X83X6-PA	4.67		
MSW-36X49X6-PA	4.56	MSW-56X69X6-PA	6.05	MSW-75X88X6-PA	32.31		

METRIC

MDK SNAP-IN WIPERS

[SEAL INFORMATION]

MDK


MATERIAL 90A NITRILE

TEMPERATURE RANGE -22° TO +212° F

PART NUMBER (Prefix) - (ID) X (OD) X (H)

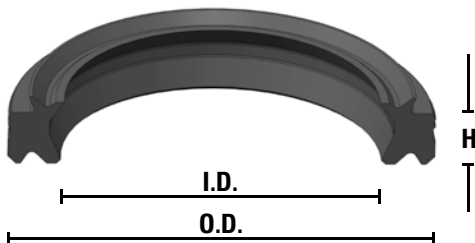
Molded in nitrile, this wiper is for light duty applications.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MDK-25X33.6X1.6U	\$ 6.36	MDK-50X60X2.15	\$ 9.72	MDK-74X87X3.3	\$ 8.39	MDK-140X150X2.15	\$ 27.72
MDK-30X37.5X1.6	7.61	MDK-55X65X2.15	20.59	MDK-80X90X2.15	15.85		
MDK-32X39.5X1.6	9.76	MDK-63X73X2.15	12.45	MDK-90X100X2.15	23.89		
MDK-33X40.5X1.6	7.69	MDK-70X80X2.15	18.42	MDK-100X110X2.15	20.02		

MWK SNAP-IN WIPERS

[SEAL INFORMATION]

MWK


MATERIAL 90A NITRILE

TEMPERATURE RANGE -49° TO +212° F

PART NUMBER (Prefix) - (ID) X (OD) X (H)

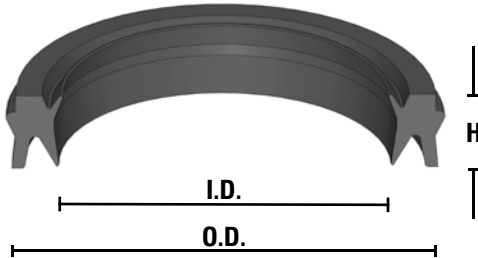
Molded in nitrile, this double lipped wiper is found in Toyota lift trucks.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MWK-20X32X6	\$ 8.60	MWK-50X62X7	\$ 18.06	MWK-80X94X8	\$ 22.29	MWK-110X126X9	\$ 22.09
MWK-25X37X6	12.77	MWK-55X69X8	18.76	MWK-85X99X8	22.98	MWK-115X131X9	33.44
MWK-30X42X6	13.29	MWK-60X74X8	19.46	MWK-90X104X8	27.36	MWK-120X136X9	35.08
MWK-35X47X7	15.20	MWK-65X79X8	20.17	MWK-95X109X8	29.73		
MWK-40X52X7	16.07	MWK-70X84X8	20.87	MWK-100X114X8	31.03		
MWK-45X57X7	16.87	MWK-75X89X8	21.58	MWK-105X121X9	21.14		



[SEAL INFORMATION]

MWK-C



MATERIAL	92A POLYURETHANE
TEMPERATURE RANGE	-22° TO +220° F
MAXIMUM PRESSURE	230 PSI
SPEED	3 FT/SEC
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

MWK-C is a polyurethane pneumatic combo seal used as both a rod and wiper seal.

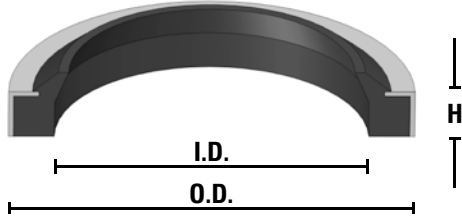
PART NUMBER	I.D.	O.D.	H	LIST PRICE
MWK-12X22X10.4-C	12	22	13	\$ 6.77
MWK-16X26X10.4-C	16	26	13	6.92
MWK-18X28X10.4-C	18	28	13	7.13
MWK-20X30X10.4-C	20	30	13	7.76
MWK-25X35X10.4-C	25	35	13	8.30

PART NUMBER	I.D.	O.D.	H	LIST PRICE
MWK-30X40X11.2-C	30	40	13.8	\$ 8.42
MWK-32X42X10.4-C	32	42	13	9.06
MWK-40X50X10.4-C	40	50	13	12.44
MWK-50X60X10.4-C	50	60	13	13.57



[SEAL INFORMATION]

MCW

**MATERIAL**

92A URETHANE

TEMPERATURE RANGE

-30° TO +220° F

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

This wiper is a single lip design molded from high grade urethane and bonded to a carbon steel case.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MCW-10X20X8	\$ 5.38	MCW-36X50X7	\$ 12.79	MCW-64X78X8	\$ 27.82	MCW-118X134X9	\$ 50.39
MCW-12X20X4	5.44	MCW-38X48X7	13.60	MCW-65X75X5	23.76	MCW-120X130X7	51.34
MCW-12X22X5	5.53	MCW-38X50X7	21.76	MCW-65X75X7	28.35	MCW-120X136X9	52.60
MCW-14X20X3.5	5.66	MCW-40X50X5	14.08	MCW-65X79X8	28.89	MCW-125X140X9	53.75
MCW-15X25X5	5.81	MCW-40X52X7	14.63	MCW-70X80X7	29.45	MCW-125X141X9	55.05
MCW-16X22X3.5	6.08	MCW-40X60X7	15.18	MCW-70X84X8	30.10	MCW-130X145X9	56.39
MCW-16X26X5	6.32	MCW-42X52X7	15.69	MCW-75X85X7	30.74	MCW-130X146X9	57.45
MCW-17X24X3.5	6.47	MCW-45X55X7	16.16	MCW-75X89X8	31.38	MCW-135X150X9	58.48
MCW-18X28X7	6.91	MCW-45X57X7	16.71	MCW-80X90X7	31.94	MCW-135X155X10	59.57
MCW-18X30X6	6.97	MCW-45X60X7	17.26	MCW-80X94X8	32.33	MCW-140X155X9	60.91
MCW-20X30X4	7.07	MCW-47X59X7	17.82	MCW-85X95X7	33.44	MCW-140X160X10	62.22
MCW-20X30X5	7.15	MCW-48X60X7	18.36	MCW-85X99X8	34.16	MCW-145X165X10	63.23
MCW-20X30X7	7.29	MCW-48X62X7	18.97	MCW-90X100X7	34.99	MCW-150X165X9	64.35
MCW-25X35X7	7.50	MCW-50X60X7	19.53	MCW-90X104X8	36.01	MCW-150X170X10	65.41
MCW-25X37X6	14.73	MCW-50X62X7	20.03	MCW-92X106X8	37.03	MCW-160X175X9	66.47
MCW-28X38X5	8.17	MCW-52X62X7	20.56	MCW-95X105X7	38.10	MCW-160X180X10	67.90
MCW-28X40X7	8.57	MCW-53X67X8	20.96	MCW-95X109X8	38.90	MCW-165X185X10	69.04
MCW-30X42X6	9.34	MCW-55X63X7	21.88	MCW-100X110X7	39.67	MCW-170X190X10	72.54
MCW-30X45X7	15.40	MCW-55X65X5	22.17	MCW-100X114X8	40.68	MCW-180X195X10	79.53
MCW-32X42X5	10.18	MCW-55X65X7	22.36	MCW-100X115X8	41.11	MCW-180X205X12	88.32
MCW-32X42X7	10.35	MCW-55X69X8	22.93	MCW-105X115X7	42.14	MCW-200X220X12	99.67
MCW-32X44X7	10.85	MCW-56X66X7	23.52	MCW-105X119X9	43.24	MCW-200X225X12	108.95
MCW-32X45X7	15.17	MCW-56X70X8	24.02	MCW-105X121X9	44.32	MCW-210X235X12	116.12
MCW-32X52X8	19.87	MCW-60X70X7	24.58	MCW-110X120X7	45.36	MCW-225X250X12	150.37
MCW-35X45X7	11.63	MCW-60X74X8	26.48	MCW-110X126X9	46.88		
MCW-35X47X7	12.18	MCW-63X75X7	26.81	MCW-115X125X7	48.22		
MCW-36X46X5	21.15	MCW-63X77X8	23.19	MCW-115X131X9	49.39		

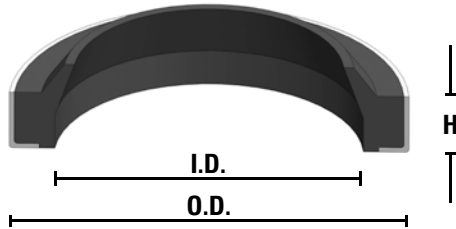
MCWE METAL CLAD WIPERS

267

WIPERS

[SEAL INFORMATION]

MCWE



MATERIAL

92A URETHANE

TEMPERATURE RANGE

-40° TO +230° F

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

This wiper is molded from high grade urethane and bonded to a carbon steel case in a single lip design.

PART NUMBER	LIST PRICE
MCW-12X20X4-E	\$ 8.77
MCW-18X28X7-E	7.77
MCW-20X28X3.5-E	8.41
MCW-20X30X5-E	9.62
MCW-20X30X7-E	11.20
MCW-22X32X6-E	13.16
MCW-25X35X7-E	13.16
MCW-28X38X7-E	13.22
MCW-30X40X5-E	14.40

PART NUMBER	LIST PRICE
MCW-30X40X7-E	\$ 14.40
MCW-32X42X7-E	14.65
MCW-32X45X7-E	14.54
MCW-33X43X7-E	2.17
MCW-35X45X7-E	14.75
MCW-36X45X7-E	16.35
MCW-36X46X7-E	14.89
MCW-40X50X7-E	15.06
MCW-42X52X7-E	15.63

PART NUMBER	LIST PRICE
MCW-45X55X7-E	\$ 15.41
MCW-50X60X7-E	16.01
MCW-55X65X7-E	16.59
MCW-56X66X7-E	16.79
MCW-55X70X7-E	16.83
MCW-60X70X7-E	17.10
MCW-63X75X7-E	17.38
MCW-65X75X7-E	17.39
MCW-70X80X7-E	17.77

PART NUMBER	LIST PRICE
MCW-75X85X7-E	\$ 17.90
MCW-80X90X7-E	18.28
MCW-85X95X7-E	18.87
MCW-90X100X7-E	19.74
MCW-105X115X7-E	25.16
MCW-100X110X7-E	29.79
MCW-110X120X7-E	33.51
MCW-115X125X7-E	37.36
MCW-120X130X7-E	41.02

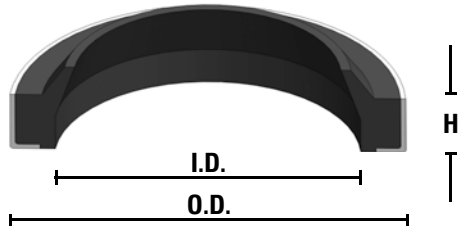


METRIC



[SEAL INFORMATION]

MCWN

**MATERIAL**

90A NITRILE

TEMPERATURE RANGE

-30° TO +220° F

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

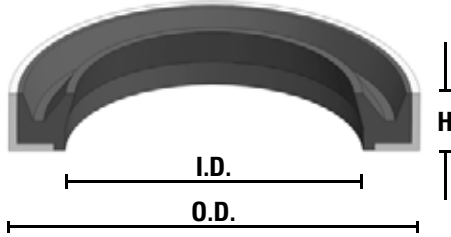
This wiper is a single lip design molded from high grade nitrile and bonded to a carbon steel case.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MCW-10X16X3-N	\$ 1.52	MCW-25X33X4-N	\$ 1.63	MCW-40X50X5-N	\$ 2.06	MCW-65X75X7-N	\$ 3.15
MCW-12X18X3.5-N	2.17	MCW-25X35X5-N	1.85	MCW-40X50X7-N	2.06	MCW-70X80X7-N	3.69
MCW-12X20X4-N	1.52	MCW-25X35X7-N	1.63	MCW-40X52X7-N	2.28	MCW-75X83X7-N	4.24
MCW-12X22X5-N	1.63	MCW-28X38X5-N	1.74	MCW-42X52X7-N	2.28	MCW-75X85X7-N	4.02
MCW-15X25X5-N	1.52	MCW-28X38X7-N	1.52	MCW-45X55X5-N	2.28	MCW-78X88X7-N	6.80
MCW-16X22X3-N	4.43	MCW-28X40X7-N	1.85	MCW-45X55X7-N	2.28	MCW-80X90X7-N	4.24
MCW-16X26X5-N	2.50	MCW-30X40X5-N	1.63	MCW-45X57X7-N	2.50	MCW-85X95X7-N	4.35
MCW-18X26X3-N	2.17	MCW-30X40X7-N	1.85	MCW-45X60X7-N	2.50	MCW-90X100X7-N	23.49
MCW-18X28X7-N	3.15	MCW-32X40X4-N	1.74	MCW-50X56X5-N	2.28	MCW-95X105X7-N	6.74
MCW-20X26X5-N	5.88	MCW-32X42X5-N	2.06	MCW-50X60X7-N	4.01	MCW-100X110X7-N	7.06
MCW-20X28X3.5-N	1.41	MCW-32X42X7-N	2.06	MCW-50X65X7-N	2.72	MCW-105X115X7-N	7.72
MCW-20X28X5-N	1.52	MCW-32X45X4-N	2.06	MCW-52X62X7-N	4.89	MCW-110X120X7-N	8.15
MCW-20X30X4-N	1.63	MCW-32X45X5-N	13.56	MCW-55X63X7-N	2.72	MCW-115X125X7-N	8.80
MCW-20X30X5-N	1.74	MCW-32X45X7-N	1.85	MCW-55X65X7-N	2.61	MCW-120X130X7-N	10.12
MCW-20X30X7-N	1.63	MCW-33X43X7-N	2.50	MCW-56X65X7-N	2.70	MCW-125X140X9-N	8.37
MCW-22X28X5-N	1.63	MCW-35X45X7-N	2.95	MCW-56X66X7-N	2.83	MCW-130X145X9-N	8.91
MCW-22X32X5-N	1.52	MCW-35X47X7-N	2.06	MCW-60X70X7-N	4.35	MCW-140X155X9-N	9.85
MCW-22X32X7-N	1.52	MCW-36X46X5-N	2.06	MCW-60X75X7-N	3.15	MCW-150X165X9-N	29.74
MCW-22X35X5-N	1.63	MCW-38X48X7-N	2.28	MCW-63X75X7-N	2.72	MCW-160X175X9-N	11.75



[SEAL INFORMATION]

MCWJ



MATERIAL

92A URETHANE

TEMPERATURE RANGE

-30° TO +220° F

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

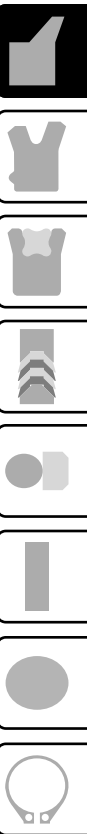
This wiper is a single lip design molded from high grade urethane and bonded to a carbon steel case.

PART NUMBER	LIST PRICE
MCW-30X40X4-J	\$ 5.52
MCW-35X45X6-J	22.36
MCW-35X47X7-J	5.06
MCW-35X50X9-J	27.27
MCW-40X50X3.18-J	9.93
MCW-40X50X4-J	14.61
MCW-40X50X5-J	20.59
MCW-40X52X6-J	11.88
MCW-40X52X7-J	11.24
MCW-40X55X9-J	15.43
MCW-45X55X3.18-J	12.57
MCW-45X55X4-J	18.20
MCW-45X55X6-J	12.45
MCW-45X55X7-J	19.13
MCW-45X57X7-J	10.20
MCW-45X60X5-J	11.62
MCW-45X60X7.5-J	13.26
MCW-45X60X9-J	30.23
MCW-50X63X4-J	18.52
MCW-50X64X8-J	30.98
MCW-50X65X5-J	20.05
MCW-50X65X7.5-J	15.28
MCW-50X65X9-J	15.42
MCW-55X65X3.18-J	13.54

PART NUMBER	LIST PRICE
MCW-55X65X5-J	\$ 14.32
MCW-55X65X7-J	14.87
MCW-55X68X6-J	15.13
MCW-55X69X8-J	13.88
MCW-55X70X5-J	15.38
MCW-55X70X6-J	15.32
MCW-55X70X7.5-J	23.08
MCW-56X68X7-J	27.22
MCW-56X70X7.5-J	14.03
MCW-56X71X9-J	17.09
MCW-60X70X7-J	19.55
MCW-60X73X6-J	19.58
MCW-60X74X8-J	11.77
MCW-60X75X5-J	17.55
MCW-60X75X6-J	30.00
MCW-60X75X7.5-J	13.19
MCW-60X75X8-J	21.54
MCW-63X78X9-J	19.84
MCW-65X79X8-J	10.81
MCW-65X80X5-J	36.41
MCW-70X80X5-J	24.82
MCW-70X80X7-J	11.37
MCW-70X84X8-J	11.34
MCW-70X85X7-J	22.43

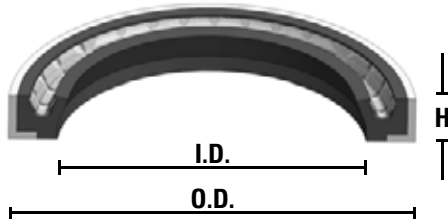
PART NUMBER	LIST PRICE
MCW-70X85X7.5-J	\$ 23.26
MCW-70X85X8-J	30.33
MCW-70X90X10-J	29.44
MCW-71X86X5-J	22.84
MCW-75X89X8-J	12.01
MCW-75X90X8-J	24.31
MCW-75X95X10-J	25.55
MCW-80X90X3.18-J	28.02
MCW-80X90X4.5-J	24.45
MCW-80X90X7-J	26.46
MCW-80X94X8-J	12.30
MCW-80X95X5-J	25.15
MCW-80X95X6-J	22.19
MCW-80X95X8-J	50.56
MCW-80X100X7-J	24.01
MCW-85X99X8-J	12.30
MCW-85X100X8-J	24.65
MCW-90X100X7-J	23.93
MCW-90X104X8-J	15.64
MCW-90X105X6-J	42.58
MCW-90X105X7-J	43.92
MCW-90X105X8-J	42.75
MCW-90X106X8-J	25.26
MCW-95X109X8-J	29.65

PART NUMBER	LIST PRICE
MCW-95X110X8-J	\$ 14.70
MCW-100X110X7-J	32.08
MCW-100X114X8-J	18.80
MCW-100X115X7-J	36.24
MCW-100X115X8-J	29.64
MCW-100X116X8-J	36.68
MCW-105X121X9-J	17.70
MCW-110X125X8-J	47.08
MCW-110X126X8-J	52.33
MCW-110X126X9-J	19.13
MCW-110X130X8-J	47.40
MCW-110X130X10-J	48.06
MCW-120X130X7-J	34.26
MCW-120X135X8-J	62.53
MCW-120X136X9-J	35.80
MCW-120X140X10-J	54.62
MCW-125X140X8-J	70.02
MCW-125X140X9-J	59.49
MCW-130X140X7-J	35.35
MCW-130X146X9-J	28.51
MCW-140X155X8-J	36.35
MCW-140X160X10-J	34.42
MCW-150X170X10-J	38.77
MCW-160X180X8-J	39.28



[SEAL INFORMATION]

MCWS



MATERIAL 92A URETHANE

TEMPERATURE RANGE -30° TO +220° F

PART NUMBER (Prefix) - (ID) X (OD) X (H)

Molded from high grade urethane and bonded to a carbon steel case, this wiper utilizes a stainless steel finger spring to maintain a high radial force on the rod.

PART NUMBER	LIST PRICE
MCW-32X42X7-S	\$ 10.30
MCW-40X50X7-S	19.44
MCW-45X55X7-S	20.05

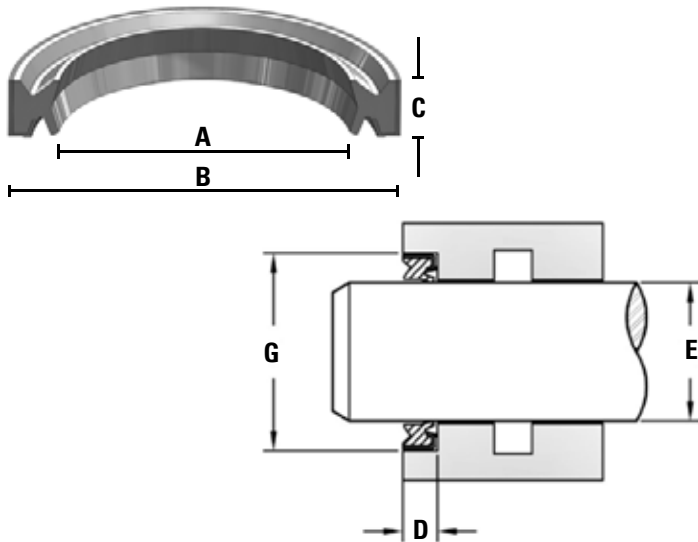
PART NUMBER	LIST PRICE
MCW-50X60X7-S	\$ 20.64
MCW-56X68X7-S	29.31
MCW-63X75X7-S	19.31

PART NUMBER	LIST PRICE
MCW-63X83X10-S	\$ 20.35
MCW-70X90X10-S	40.41
MCW-80X100X10-S	55.10



[SEAL INFORMATION]

MCWHD



MATERIAL

URETHANE LIP
STEEL CASE

TEMPERATURE RANGE

-65° TO +230° F

SPEED

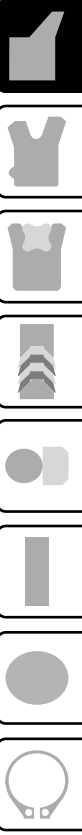
3 FT/SEC

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

Designed for use in harsh environments, this wiper is made from a high grade urethane with better tensile strength and temperature resistance. It has a double lip for better exclusion of contaminants and is thicker and wider for super duty applications.

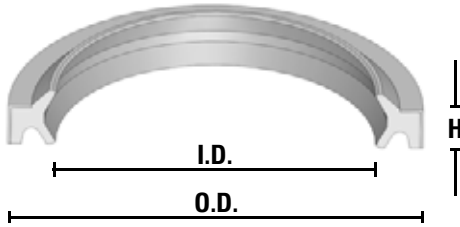
PART NUMBER	A NOM. I.D.	B NOM. O.D.	C NOM. HT.	D GROOVE W	E ROD DIA.	G HOUSING DIA.	LIST PRICE
MCW-45X59X8.5-HD	45	59	8.5	8.50	45.00	59.00	\$ 9.66
MCW-50X69X11-HD	50	69	11	11.00	50.00	69.00	10.30
MCW-55X72.5X11-HD	55	72.5	11	11.00	55.00	72.50	12.16
MCW-55X74X11-HD	55	74	11	11.00	55.00	74.00	11.12
MCW-60X79X11-HD	60	79	11	11.00	60.00	79.00	18.60
MCW-65X84.02X11-HD	65	84.02	11	11.00	65.00	84.02	21.61
MCW-80X100.4X14-HD	80	100.4	14	14.00	80.00	100.40	22.07
MCW-85X105X14-HD	85	105	14	14.00	85.00	105.00	28.63
MCW-90X110.35X14-HD	90	110.35	14	14.00	90.00	110.35	25.49
MCW-95X115X14-HD	95	115	14	14.00	95.00	115.00	31.97





[SEAL INFORMATION]

MCWHU

**MATERIAL**

92A URETHANE

TEMPERATURE RANGE

-30° TO +220° F

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

Utilizing a double lip of urethane bonded to a carbon steel case, this wiper prevents contaminant ingress at the wiping lip and around the outer case.

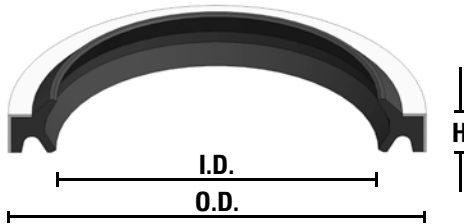
PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MCW-19X27X4-HU	\$ 6.72	MCW-50X62X7-HU	\$23.08	MCW-85X99X8-HU	\$36.15	MCW-135X155X10-HU	\$53.50
MCW-20X32X6-HU	7.58	MCW-55X69X8-HU	24.84	MCW-90X104X8-HU	38.06	MCW-140X160X10-HU	54.89
MCW-25X37X6-HU	6.58	MCW-60X74X8-HU	26.90	MCW-95X109X8-HU	39.52	MCW-145X165X10-HU	56.40
MCW-30X42X6-HU	14.67	MCW-65X79X8-HU	28.53	MCW-100X114X8-HU	40.64	MCW-150X170X10-HU	58.08
MCW-32X44X7-HU	15.15	MCW-70X82X7-HU	29.56	MCW-105X121X9-HU	42.15	MCW-155X175X10-HU	60.79
MCW-34X46X7-HU	15.85	MCW-70X83X8-HU	30.29	MCW-110X126X9-HU	44.31	MCW-160X180X10-HU	64.84
MCW-35X47X7-HU	16.76	MCW-70X84X8-HU	30.62	MCW-115X127X9-HU	58.23	MCW-165X185X10-HU	67.45
MCW-38X50X7-HU	17.46	MCW-75X87X7-HU	31.31	MCW-115X129X9-HU	38.97	MCW-170X190X10-HU	83.24
MCW-40X50X7-HU	18.10	MCW-75X89X8-HU	32.93	MCW-115X131X9-HU	47.09	MCW-180X200X10-HU	90.65
MCW-40X52X7-HU	18.97	MCW-80X92X7-HU	33.71	MCW-120X136X9-HU	48.74	MCW-190X205X9-HU	96.22
MCW-45X57X7-HU	20.57	MCW-80X94X8-HU	34.49	MCW-125X141X9-HU	50.51	MCW-200X216X8-HU	107.40
MCW-50X60X7-HU	20.88	MCW-85X97X7-HU	35.40	MCW-130X146X9-HU	51.96		





[SEAL INFORMATION]

MCWHN



MATERIAL	70A NITRILE
TEMPERATURE RANGE	-20° TO +250° F
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

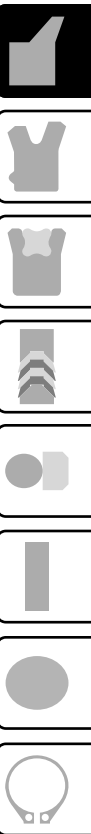
Utilizing a double lip of nitrile bonded to a carbon steel case, this wiper prevents contaminant ingress at the wiping lip and around the outer case.

PART NUMBER	LIST PRICE
MCW-20X32X6-HN	\$ 14.20
MCW-22X32X6-HN	14.20
MCW-22X34X6-HN	15.19
MCW-25X37X6-HN	14.42
MCW-30X42X6-HN	14.42
MCW-30X45X6-HN	14.42
MCW-30X47X7-HN	20.44

PART NUMBER	LIST PRICE
MCW-32X52X8-HN	\$ 16.65
MCW-35X47X7-HN	15.19
MCW-36X48X7-HN	27.39
MCW-40X52X7-HN	18.57
MCW-40X62X8-HN	26.66
MCW-45X57X7-HN	20.26
MCW-50X62X7-HN	21.27

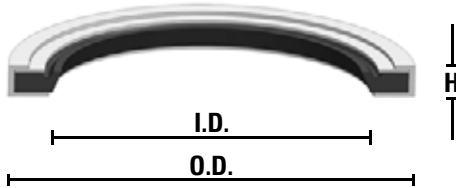
PART NUMBER	LIST PRICE
MCW-50X72X8-HN	\$ 39.39
MCW-55X69X8-HN	24.32
MCW-60X74X8-HN	26.33
MCW-65X79X8-HN	27.93
MCW-70X84X8-HN	29.97
MCW-75X89X8-HN	32.24
MCW-80X94X8-HN	37.99

PART NUMBER	LIST PRICE
MCW-85X99X8-HN	\$ 43.13
MCW-90X104X8-HN	46.67
MCW-95X109X8-HN	47.68
MCW-105X121X9-HN	20.40
MCW-112X128X9-HN	67.27
MCW-115X131X9-HN	22.60



[SEAL INFORMATION]

MDS

**MATERIAL** NITRILE SEAL / STEEL CASE**TEMPERATURE RANGE** -30° TO +220° F**PART NUMBER** (Prefix) - (ID) X (OD) X (H)

Molded in nitrile with steel case, this seal is double cased and used to exclude contaminants from cylinder link pins.

PART NUMBER	LIST PRICE
MDS-22X28X4	\$ 3.08
MDS-22X30X4	3.26
MDS-30X40X4	7.33
MDS-35X45X4	3.21
MDS-40X50X4	7.33
MDS-45X55X4	4.26
MDS-50X58X4	4.06

PART NUMBER	LIST PRICE
MDS-50X60X4	\$ 4.81
MDS-50X63X4	4.78
MDS-50X65X6	5.73
MDS-55X68X4	6.41
MDS-60X70X5	16.95
MDS-60X75X4	6.76
MDS-65X80X4	7.83

PART NUMBER	LIST PRICE
MDS-70X85X4	\$ 8.54
MDS-70X85X6	8.72
MDS-75X90X4	9.61
MDS-80X95X4	10.67
MDS-80X95X6	13.52
MDS-85X100X4	13.69
MDS-90X105X4	14.06

PART NUMBER	LIST PRICE
MDS-95X110X4	\$ 14.94
MDS-100X115X4	16.35
MDS-100X120X4	17.78
MDS-110X125X4	19.20
MDS-120X135X4	22.41



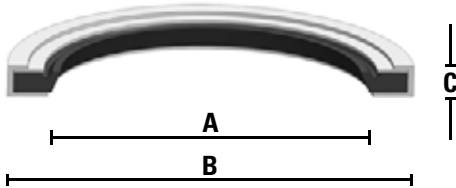
MDS-U LINK PIN DUST SEALS

275

PIN SEALS

[SEAL INFORMATION]

MDS-U



MATERIAL

URETHANE SEAL
STEEL CASE

TEMPERATURE RANGE

-30° TO +200° F

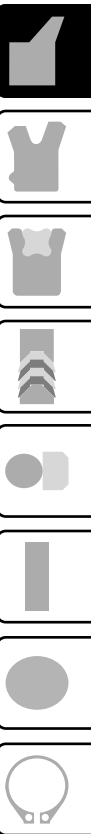
PART NUMBER

(Prefix) - (ID) X (OD) X (H)

Molded in urethane with steel case, this seal is double cased and used to exclude contaminants from cylinder link pins.

PART NUMBER	A I.D.	B O.D.	C HT	LIST PRICE
MDS-25X35X4U	25	35	4	\$ 6.27
MDS-30X40X4U	30	40	4	6.66
MDS-35X45X4U	35	45	4	6.92
MDS-40X50X4U	40	50	4	7.73
MDS-45X55X4U	45	55	4	8.21
MDS-45X55X6U	45	55	6	8.27
MDS-50X60X4U	50	60	4	9.07
MDS-50X65X4U	50	65	4	9.43
MDS-50X65X6U	50	65	6	9.70
MDS-55X68X4U	55	68	4	10.76
MDS-55X70X6U	55	70	6	10.89
MDS-55X75X6U	55	75	6	11.94
MDS-60X75X4U	60	75	4	11.18
MDS-60X75X6U	60	75	6	11.75
MDS-65X75X4U	65	75	4	10.62
MDS-65X80X4U	65	80	4	11.74
MDS-65X80X8U	65	80	8	14.08
MDS-65X85X5U	65	85	5	13.16
MDS-70X80X6U	70	80	6	11.97
MDS-70X85X4U	70	85	4	12.61

PART NUMBER	A I.D.	B O.D.	C HT	LIST PRICE
MDS-70X85X6U	70	85	6	\$ 13.03
MDS-75X90X4U	75	90	4	15.15
MDS-80X95X4U	80	95	4	16.52
MDS-80X95X6U	80	95	6	17.23
MDS-80X95X8U	80	95	8	18.67
MDS-80X100X6U	80	100	6	20.88
MDS-85X100X4U	85	100	4	14.94
MDS-90X105X4U	90	105	4	18.05
MDS-90X105X6U	90	105	6	18.69
MDS-90X110X8U	90	100	8	18.22
MDS-95X110X4U	95	110	4	19.06
MDS-100X115X4U	100	115	4	17.19
MDS-100X115X8U	100	115	8	19.36
MDS-100X120X10U	100	120	10	25.25
MDS-110X125X4U	110	125	4	19.72
MDS-110X125X8U	110	125	8	21.01
MDS-110X130X8U	110	130	8	29.14
MDS-120X135X4U	120	135	4	26.60
MDS-125X140X4U	125	140	4	31.27
MDS-140X155X4U	140	155	4	39.34

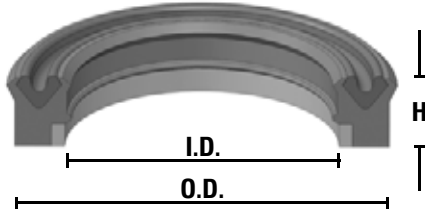


METRIC



[SEAL INFORMATION]

MR-TB

**MATERIAL**URETHANE SEAL
POLYACETAL BACK-UP**TEMPERATURE RANGE**

-40° TO +230° F

PRESSURE RANGE

0 TO 6,000 PSI

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

Molded of high performance urethane, this seal has three improved features: an energizer ring for low pressure, an extra lip to retain lubrication and block contaminants, and a hard plastic anti-extrusion ring on the I.D.

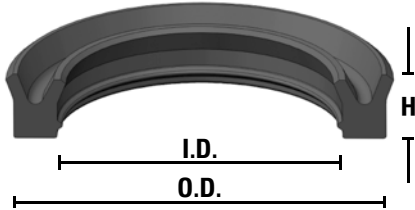
NOTE: E = European Urethane.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MR-30X40X7.3TB	\$ 29.52	MR-60X73X13TB	\$ 37.51	MR-80X95X13TB	\$ 60.00	MR-120X140X14.6TB	\$ 75.13
MR-35X50X9.5TB	31.08	MR-60X75X11.4TB	44.59	MR-85X100X11.8TB	62.65	MR-125X145X14.6TB	76.56
MR-36X46X7.3TB	31.67	MR-63X75X8.6TB	46.00	MR-85X100X13TB	57.84	MR-130X150X14.6TB	77.79
MR-40X50X7.3TB	33.73	MR-63X78X11.4TB	46.25	MR-90X105X11.4TB	60.75	MR-140X160X13TB	76.97
MR-40X50X10TB	39.93	MR-63X83X11.8TB	55.51	MR-90X105X13TB	48.87	MR-140X160X14.6TB	97.17
MR-45X55X7.3TB	36.53	MR-65X75X10TB	48.73	MR-95X110X13TB	49.94	MR-150X165X14.5TB	91.54
MR-45X60X11.4TB	37.88	MR-65X80X10TB	50.32	MR-100X115X13TB	51.27	MR-150X170X14.6TB	93.17
MR-50X60X7.3TB	39.25	MR-65X80X11.4TB	51.80	MR-100X120X14.6TB	66.34	MR-160X175X14.5TB	93.67
MR-50X60X10TB	40.92	MR-70X83X13TB	50.81	MR-110X130X13TB	54.47	MR-160X180X14.6TB	95.99
MR-50X65X10TB	42.25	MR-70X85X11.4TB	50.21	MR-110X130X14.6TB	71.63	MR-160X185X14.6TB	95.99
MR-50X65X11.4TB	40.39	MR-75X88X13TB	50.53	MR-115X135X14.6TB	75.14	MR-180X200X14.6TB	100.46
MR-55X70X11.4TB	41.78	MR-75X90X13TB	53.74	MR-120X135X14.6TB	77.14	MR-200X220X14.6TB	125.00
MR-56X71X11.4TB	42.37	MR-80X95X11.4TB	55.47	MR-120X140X13TB	56.53	MR-215X235X14.6TB	146.08



[SEAL INFORMATION]

MR-T



MATERIAL	93A URETHANE
TEMPERATURE RANGE	-65° TO +220° F
PRESSURE RANGE	0 TO 5,000 PSI
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

Molded in a tough urethane, this seal employs an additional lip near the heel. The Twin Lip design provides stability, friction-reducing lube retention, and a contaminant blocker. **NOTE: E = European Urethane.**

PART NUMBER	LIST PRICE
MR-6X16X7T	\$ 6.89
MR-8X18X7T	7.05
MR-12X18X4T	7.74
MR-12X18X5.7T	8.61
MR-12X19X4.5T	8.95
MR-12X20X5.7T	8.65
MR-12X22X7.7T	8.81
MR-13X20X4.5T	8.97
MR-14X21X5.1T	9.15
MR-14X22X5.7T	9.21
MR-14X24X7.3T	9.37
MR-15X22X5.7T	9.54
MR-16X22X4.5T	9.72
MR-16X22X5T	9.68
MR-16X24X5.8T	10.14
MR-16X24X5.7T	10.55
MR-16X26X7.7T	9.31
MR-18X24X4.5T	9.90
MR-18X25X5T	9.78
MR-18X26X5T	10.21
MR-18X26X5.7T	9.64
MR-18X26X6T	10.84
MR-18X28X7.7T	10.75
MR-20X26X5T	7.75
MR-20X27X6.1T	10.28
MR-20X28X5T	8.41
MR-20X28X5.7T	8.86
MR-20X30X6T	8.72
MR-20X30X7.7T	9.27

PART NUMBER	LIST PRICE
MR-22X30X5T	\$ 9.44
MR-22X30X5.7T	8.49
MR-22X30X7.3T	10.10
MR-22X32X7.3T	8.86
MR-24X30X4.5T	9.90
MR-25X33X5T	9.43
MR-25X33X5.7T	8.49
MR-25X33X10T	10.54
MR-25X35X7.3T	10.24
MR-25X35X7.7T	9.35
MR-25X35X10T	9.35
MR-25X37X10T	10.27
MR-25X40X10T	10.41
MR-26X36X7T	9.58
MR-28X36X5.7T	9.85
MR-28X38X7.3T	9.35
MR-28X43X11.4T	9.35
MR-30X38X5.7T	9.47
MR-30X38X6.3T	9.35
MR-30X40X6T	9.48
MR-30X40X7T	9.62
MR-30X40X10T	9.68
MR-30X42X10.9T	10.83
MR-30X50X10T	10.68
MR-32X40X6T	8.09
MR-32X40X7.7T	8.15
MR-32X42X5.7T	7.70
MR-32X42X7.3T	8.97
MR-32X42X10T	8.97

PART NUMBER	LIST PRICE
MR-32X45X10T	\$ 9.16
MR-32X47X9.1T	9.31
MR-32X47X10T	9.31
MR-32X48X10T	10.37
MR-35X43X5.7T	9.51
MR-35X43X6.3T	8.13
MR-35X43X8.2T	8.13
MR-35X45X6T	8.70
MR-35X45X7T	8.83
MR-35X45X7.7T	8.78
MR-35X45X10T	8.13
MR-35X50X9T	9.88
MR-35X50X10T	9.62
MR-36X44X6.4T	7.70
MR-36X44X8T	8.25
MR-36X46X5.7T	9.57
MR-36X46X7.3T	9.74
MR-36X46X7T	8.04
MR-36X46X10T	8.97
MR-36X51X10T	10.57
MR-38X48X10T	10.12
MR-38X50X10T	10.30
MR-40X48X8.2T	8.97
MR-40X50X6T	9.37
MR-40X50X7.3T	11.13
MR-40X50X8T	15.85
MR-40X50X10T	12.64
MR-40X52X10T	12.19
MR-40X55X7.3T	11.43

PART NUMBER	LIST PRICE
MR-40X55X9T	\$ 11.66
MR-40X55X10T	10.94
MR-42X50X5.7	10.46
MR-42X50X7.5T	10.65
MR-42X52X10T	11.22
MR-45X53X8.1T	8.97
MR-45X55X5.6T	11.58
MR-45X55X6T	10.73
MR-45X55X7.3T	8.97
MR-45X55X10T	12.52
MR-45X60X10T	9.95
MR-45X65X10T	16.99
MR-48X60X10T	11.62
MR-50X57X9T	11.19
MR-50X60X6T	11.29
MR-50X60X7.3T	11.91
MR-50X60X10T	13.27
MR-50X60X11.8T	9.62
MR-50X65X9T	13.87
MR-50X65X9.5T	12.18
MR-50X65X10T	13.41
MR-50X65X11T	14.90
MR-50X65X14.5T	9.71
MR-55X65X6T	10.59
MR-55X65X7.3T	12.02
MR-55X65X10T	9.62
MR-55X65X11.8T	12.64
MR-55X68X10T	12.35
MR-55X70X9T	12.43



PART NUMBER	LIST PRICE
MR-55X70X11.8T	\$12.50
MR-55X75X12T	13.30
MR-56X66X10T	13.78
MR-56X71X10T	11.87
MR-56X71X11T	15.99
MR-56X71X11.4T	15.67
MR-60X68X11T	14.15
MR-60X68X11.4T	12.40
MR-60X70X7.3T	12.69
MR-60X70X10T	15.40
MR-60X70X11.8T	11.23
MR-60X71X7T	11.89
MR-60X72X10T	11.23
MR-60X73X10T	16.53
MR-60X75X9T	14.88
MR-60X75X10T	16.19
MR-60X75X11.8T	17.24
MR-60X80X11.4T	16.11
MR-60X80X12T	15.68
MR-63X73X6T	14.98
MR-63X73X12T	15.55
MR-63X78X10T	12.50
MR-63X78X11T	18.09
MR-63X78X11.4T	16.79
MR-65X75X6T	15.56
MR-65X75X7.7T	15.81
MR-65X75X11.8T	15.14
MR-65X77X9T	15.27
MR-65X78X10T	15.44
MR-65X80X9T	15.95
MR-65X80X11.8T	16.41
MR-65X85X12T	17.15
MR-70X80X11.8T	15.73
MR-70X80X12T	18.32
MR-70X82X8.7T	17.72
MR-70X82X10T	15.87

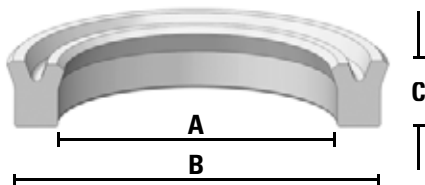
PART NUMBER	LIST PRICE
MR-70X83X10T	\$12.38
MR-70X85X9T	16.44
MR-70X85X10T	13.93
MR-70X85X11.4T	15.37
MR-70X85X11.5T	13.93
MR-70X90X12T	17.31
MR-75X83X11.4T	18.91
MR-75X85X6T	16.84
MR-75X85X11.8T	14.97
MR-75X88X10T	15.11
MR-75X90X9T	17.21
MR-75X95X12T	18.73
MR-78X86X9T	16.72
MR-78X86X11T	16.25
MR-80X88X10.9T	16.94
MR-80X90X10T	16.28
MR-80X90X11.8T	19.01
MR-80X92X8.7T	20.30
MR-80X93X10T	16.25
MR-80X95X9T	17.76
MR-80X95X10T	18.64
MR-80X95X12T	24.39
MR-80X100X12T	24.03
MR-80X100X14.5T	22.45
MR-85X93X10T	20.17
MR-85X93X11.4T	21.02
MR-85X100X9T	23.58
MR-85X100X10T	20.62
MR-85X100X11.8T	19.82
MR-85X105X12T	22.51
MR-90X98X11.4T	20.02
MR-90X100X6.8T	19.90
MR90X100X9T	19.99
MR-90X100X11.5-VME	19.09
MR-90X100X11.8T	20.15
MR-90X102X8.7T	20.44

PART NUMBER	LIST PRICE
MR-90X105X9T	\$21.21
MR-90X105X10T	21.21
MR-90X105X11.4T	17.27
MR-90X110X12T	22.11
MR-95X110X9T	21.56
MR-95X110X10T	21.56
MR-95X110X11.8T	22.04
MR-95X115X12T	19.15
MR-100X108X10.9T	19.62
MR-100X110X10.9T	20.76
MR-100X115X9T	21.87
MR-100X115X10T	21.87
MR-100X115X12T	21.87
MR-100X120X11.8T	29.20
MR-100X120X14.5T	29.20
MR-105X115X11.5T-VME	20.87
MR-105X115X13.2T	22.47
MR-105X120X9T	23.32
MR-105X120X10T	23.32
MR-105X120X14.5T	25.85
MR-105X125X14.5T	24.28
MR-110X125X9T	23.44
MR-110X125X11T	23.44
MR-110X125X14.5T	24.24
MR-110X130X11.8T	39.92
MR-110X130X14.5T	39.92
MR-110X135X14.5T	31.43
MR-115X130X9T	28.46
MR-115X130X10.9T	29.23
MR-115X130X14.5T	29.91
MR-120X128X11.4T	27.69
MR-120X130X10.9T	29.42
MR-120X130X11.5-VME	24.75
MR-120X135X9T	31.69
MR-120X140X12T	32.68
MR-120X140X14.5T	37.34

PART NUMBER	LIST PRICE
MR-125X133X11.4T	\$32.30
MR-125X140X9T	33.87
MR-125X140X10.9T	33.87
MR-125X145X12T	38.44
MR-125X145X14.5T	43.52
MR-125X150X12.5T	40.06
MR-130X140X14.5T	38.23
MR-130X145X9T	36.25
MR-130X150X12T	37.94
MR-130X150X14.5T	45.62
MR-135X150X11.4T	37.65
MR-140X150X10.9T	38.78
MR-140X150X11.5T	43.44
MR-140X155X9T	39.95
MR-140X155X11.8T	40.73
MR-140X160X11.8T	43.45
MR-140X160X14.5T	43.45
MR-150X160X11T	41.18
MR-150X165X9T	44.21
MR-150X170X12T	46.37
MR-150X170X13T	46.89
MR-150X170X13.2T	46.89
MR-150X170X14.5T	47.40
MR-155X170X14.5T	46.08
MR-160X170X11.5-VME	46.67
MR-160X175X9T	45.31
MR-160X175X10.9T	45.31
MR-160X180X12T	49.43
MR-160X180X14.5T	51.59
MR-165X180X9T	49.39
MR-170X190X14.5T	51.25
MR-180X200X11.8T	52.75
MR-180X200X14.5T	52.75

[SEAL INFORMATION]

MR



MATERIAL	92A URETHANE
TEMPERATURE RANGE	-65° TO +220° F
PRESSURE RANGE	0 TO 5,000 PSI
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

Molded in a tough urethane, this rod u-seal fits tightly in the groove while providing increased radial force on the rod.
NOTE: E = European Urethane

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MR-6X14X5.7-E	\$ 3.48	MR-32X40X8-E	\$ 5.58	MR-45X60X9	\$ 14.36	MR-60X73X10	\$ 15.73
MR-12X20X5.7-E	3.85	MR-32X42X6	11.93	MR-45X60X10-E	7.55	MR-60X75X9	15.13
MR-15X25X10	7.05	MR-32X42X7.2-E	5.58	MR-45X60X11.5-E	8.49	MR-60X76X10	15.48
MR-18X24X4.5-E	3.72	MR-32X45X9.5-E	6.61	MR-45X65X12	10.43	MR-60X80X12	16.16
MR-18X26X5.7-E	4.40	MR-32X47X10-E	6.40	MR-50X58X8.2	32.05	MR-63X73X12-E	10.43
MR-18X28X8-E	4.64	MR-33X43X10-E	6.73	MR-50X60X7.3	11.14	MR-63X78X10-E	10.43
MR-18X28X5.7	10.75	MR-35X43X5.7	6.97	MR-50X60X10-E	8.49	MR-63X79X11.5-GT	33.91
MR-20X28X5.7	11.94	MR-35X43X8-E	6.73	MR-50X60X12-E	8.49	MR-63X83X12	18.26
MR-20X30X8	7.52	MR-35X45X6	9.32	MR-50X63X8	14.01	MR-65X75X6	12.83
MR-20X35X10-E	4.64	MR-35X45X6.3	9.32	MR-50X63X10	14.46	MR-65X78X10	16.91
MR-22X30X5.7-E	4.64	MR-35X45X7	6.52	MR-50X65X9	17.40	MR-65X80X9	15.88
MR-25X33X5.7	8.68	MR-35X45X7.3	14.44	MR-50X65X10	14.60	MR-65X80X10-E	10.09
MR-25X33X6.3-E	4.64	MR-35X51X9	10.60	MR-50X65X11.5	10.03	MR-65X85X12	23.63
MR-25X33X10-E	4.64	MR-36X44X5.7	14.83	MR-50X65X11.5-E	11.16	MR-70X80X6-E	9.89
MR-25X35X5	9.09	MR-36X46X7-E	6.40	MR-50X65X15.5-E	10.03	MR-70X80X7-E	11.37
MR-25X35X6	8.52	MR-36X51X10-E	7.09	MR-50X66X12	10.24	MR-70X83X10	16.62
MR-25X35X7.2-E	4.99	MR-40X48X5	9.83	MR-50X70X12	14.71	MR-70X85X9	18.04
MR-25X35X8	7.52	MR-40X48X5.7-E	7.09	MR-55X65X7.2-E	7.90	MR-70X85X10-E	11.58
MR-25X35X10-E	4.99	MR-40X50X6	10.21	MR-55X68X10	18.04	MR-70X85X12-E	9.41
MR-25X40X10-E	5.46	MR-40X50X7.3	10.82	MR-55X70X9	16.62	MR-70X90X12	21.68
MR-28X38X7.3	8.27	MR-40X52X8-E	7.35	MR-55X70X10-E	8.70	MR-75X85X6.3	26.49
MR-30X38X5.7-E	5.10	MR-40X55X9	11.39	MR-55X68X10	18.04	MR-75X85X7-E	12.93
MR-30X38X8-E	5.10	MR-40X55X10	30.24	MR-55X70X9	16.62	MR-75X85X12-E	12.22
MR-30X40X6	10.46	MR-40X56X12	11.58	MR-55X70X10-E	8.70	MR-75X88X10	20.23
MR-30X40X7	7.86	MR-40X60X12	12.17	MR-55X71X12	19.37	MR-75X90X9	19.87
MR-30X40X7.3	7.47	MR-42X50X6	16.48	MR-55X75X12	14.85	MR-75X90X10-E	9.29
MR-30X40X8	9.08	MR-42X52X7.3	17.87	MR-56X66X7.3	12.63	MR-75X90X11.4	22.77
MR-30X40X10-E	6.61	MR-45X53X5.8-E	9.03	MR-56X66X10-E	8.13	MR-75X95X12	21.84
MR-30X43X9-E	5.81	MR-45X55X6	12.06	MR-56X71X9	14.24	MR-80X93X10	22.12
MR-30X43X10	11.34	MR-45X55X7.3	11.35	MR-56X71X10-E	8.70	MR-80X95X9	22.12
MR-30X46X9	10.06	MR-45X58X9-E	7.55	MR-60X72X9-E	10.87	MR-80X95X10	22.80

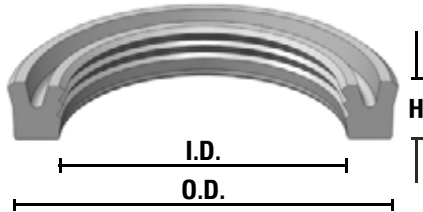


PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MR-80X95X11.5-E	\$ 9.74	MR-100X115X10	\$ 20.46	MR-115X130X10	\$ 63.46	MR-140X160X12	\$ 48.75
MR-80X100X12	24.03	MR-100X115X12-E	10.90	MR-115X135X12	39.57	MR-150X165X9	53.98
MR-85X100X9	24.03	MR-100X120X11.4	46.03	MR-118X133X9	40.11	MR-150X170X12	57.30
MR-85X100X10	24.11	MR-100X120X12	29.28	MR-120X135X9	41.61	MR-150X170X16	66.05
MR-85X100X11.4	24.56	MR-100X120X15-E	14.77	MR-120X140X10	43.05	MR-155X170X9	62.21
MR-85X105X12	24.87	MR-105X120X9	32.38	MR-120X140X12	45.35	MR-155X175X9	203.80
MR-90X105X9	25.29	MR-105X120X10	33.50	MR-120X140X13	45.35	MR-160X175X9	69.47
MR-90X105X10	25.57	MR-105X125X12	36.36	MR-120X140X15	49.18	MR-160X180X12	68.28
MR-90X105X11.5-E	13.71	MR-105X125X15	35.19	MR-125X140X9	49.02	MR-160X180X15	70.58
MR-90X110X12	17.26	MR-110X125X9	37.19	MR-125X145X12	55.77	MR-160X185X16	70.09
MR-90X110X15-E	10.90	MR-110X125X10	37.85	MR-130X145X9	54.48	MR-170X185X9	66.51
MR-95X110X9	26.77	MR-110X130X10	38.58	MR-130X150X12	43.03	MR-170X190X12-E	64.14
MR-95X110X10	26.77	MR-110X130X12	39.06	MR-130X150X13	47.85	MR-170X195X16	67.11
MR-95X110X11.4	48.45	MR-110X130X13	39.06	MR-130X150X16	56.09	MR-170X190X12-E	17.39
MR-95X115X12	27.00	MR-110X130X15	42.22	MR-135X150X9	13.12	MR-170X195X16	67.11
MR-100X113X12.5-E	18.08	MR-112X127X10	64.45	MR-140X155X9	30.97	MR-180X205X16	85.45
MR-100X115X9	39.22	MR-115X130X9	40.65	MR-140X160X9	47.02	MR-200X225X16	147.73



[SEAL INFORMATION]

MRMU



MATERIAL	URETHANE
TEMPERATURE RANGE	-50° TO +230° F
PRESSURE RANGE	0 TO 5,000 PSI
SPEED	3 FT/SEC
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

The MRMU multi-lip rod u-seal combines the pressure-compensating, unidirectional characteristics of a u-seal with the multi-lip sealing effectiveness of compression-type stacked packings. Made from premium materials, the MRMU utilizes several sealing lip edges for dry rod performance while minimizing friction. The multi-lip design maintains a critical sealing edge even though increasing pressure moves the line of contact down toward the heel.

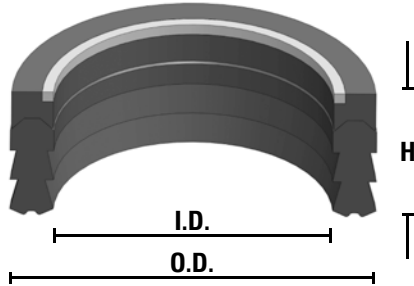
PART NUMBER	I.D.	O.D.	H	LIST PRICE
MRMU-12X19X5U	12	19	5	\$ 8.80
MRMU-14X21X5U	14	21	5	8.80
MRMU-18X25X5U	18	25	5	8.92
MRMU-22X29X5U	22	29	5	8.92
MRMU-28X36X5.7U	28	36	5.7	8.99
MRMU-36X44X5.7U	36	44	5.7	8.99

PART NUMBER	I.D.	O.D.	H	LIST PRICE
MRMU-45X53X5.7U	45	53	5.7	\$ 9.10
MRMU-56X66X6.5U	56	66	6.5	9.39
MRMU-70X80X6.5U	70	80	6.5	9.57
MRMU-90X100X6.5U	90	100	6.5	9.74
MRMU-110X125X9.6U	110	125	9.6	11.53
MRMU-140X155X9.6U	140	155	9.6	18.54



[SEAL INFORMATION]

MSMR

**MATERIAL**NITRILE SEAL / URETHANE
HEADER / ACETAL BACK-UP**TEMPERATURE RANGE**

-22° TO +212° F

PRESSURE RANGE

0 TO 10,000 PSI

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

With nitrile redundant lips and acetal header, this seal features high sealability with extrusion resistance capable of high pressure.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MSMR-25X37X21.5	\$ 16.57	MSMR-50X65X24.5	\$ 18.65	MSMR-65X85X29	\$ 34.38	MSMR-100X120X30	\$ 26.27
MSMR-32X47X22.5	14.13	MSMR-50X70X30	18.06	MSMR-70X83X25	18.73	MSMR-105X125X30	31.76
MSMR-35X45X24.5	12.64	MSMR-55X70X21	15.86	MSMR-70X85X22.5	19.49	MSMR-115X130X21	26.35
MSMR-40X50X17.3	13.37	MSMR-55X70X22.5	32.85	MSMR-70X90X28	20.49	MSMR-125X140X21	28.06
MSMR-40X52X22.5	11.93	MSMR-55X70X25	16.32	MSMR-70X90X30	27.94	MSMR-125X145X28	33.05
MSMR-40X55X22.5	13.26	MSMR-56X71X24	18.97	MSMR-75X95X30	21.46	MSMR-130X155X25.5	57.13
MSMR-45X60X22.5	18.45	MSMR-60X75X22.5	16.76	MSMR-80X95X22.5	59.35	MSMR-140X160X30	43.80
MSMR-45X65X28	23.29	MSMR-60X80X30	16.98	MSMR-80X100X30	29.33	MSMR-160X180X26.5	35.92
MSMR-45X80X43	15.14	MSMR-60X80X31	18.97	MSMR-90X110X30	30.00	MSMR-180X205X33	64.47
MSMR-50X63X20	13.15	MSMR-63X83X25	24.03	MSMR-95X110X21.5	24.76	MSMR-200X225X34	96.77
MSMR-50X65X21	16.98	MSMR-63X83X27	47.30	MSMR-95X115X26	25.30		
MSMR-50X65X22.5	15.67	MSMR-63X83X30	20.90	MSMR-100X120X29	25.30		

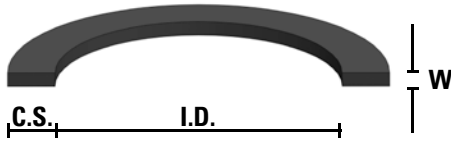
MBN U-SEAL BACK-UP RINGS

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ROD SEALS

[SEAL INFORMATION]

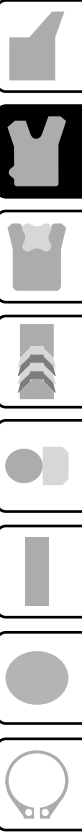
MBN



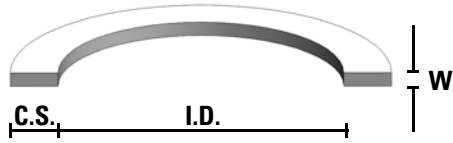
MATERIAL	NYLON
TEMPERATURE RANGE	-65° TO +220° F
PRESSURE RANGE	0 TO 5,000 PSI
PART NUMBER	(Prefix) - (ID) X (CS) X (W)

Hard nylon back-up rings for use with U-seals.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MBN-25X5X2	\$ 5.68	MBN-60X7.5X2.5	\$ 8.28	MBN-80X6.5X3	\$ 9.98	MBN-117X5X4	\$ 25.62
MBN-28X3.7X1.5	13.26	MBN-60X10X3	8.28	MBN-80X7.5X3	9.98	MBN-120X7.5X3	11.63
MBN-30X5X3	7.13	MBN-63X6X1.5	5.82	MBN-80X10X3	9.98	MBN-120X10X3	12.45
MBN-35X5X1.8	6.45	MBN-64X8X3	8.28	MBN-85X7.5X3	9.98	MBN-125X10X3	27.99
MBN-40X4X1.4	16.38	MBN-65X6.5X3	8.28	MBN-85X10X3	9.98	MBN-130X10X3	16.38
MBN-40X5X1.5	7.27	MBN-65X7.5X3	8.28	MBN-90X7.5X3	9.98	MBN-132X5X4	32.08
MBN-40X5X2.5	16.69	MBN-70X6.5X3	8.28	MBN-90X10X3	9.98	MBN-140X10X3	20.88
MBN-40X7.5X3	8.28	MBN-70X7.5X1.6	16.61	MBN-95X7.5X3	9.98	MBN-145X5X4	33.81
MBN-42X4X1.5	5.69	MBN-70X7.5X3	8.28	MBN-95X10X3	9.98	MBN-155X5X4	34.96
MBN-45X5.5X2.5	14.02	MBN-70X10X3	8.28	MBN-100X7.5X3	11.63	MBN-160X12.5X3	43.03
MBN-45X7.5X3	8.28	MBN-75X2.5X2.5	25.62	MBN-100X10X3	11.63	MBN-160X12.5X3.5	34.73
MBN-50X5X1.6	24.27	MBN-75X5X3	16.69	MBN-105X7.5X3	11.63	MBN-170X12.5X3	49.83
MBN-50X7.5X2.5	20.48	MBN-75X6.5X3	8.28	MBN-105X10X3	11.63	MBN-180X12.5X3.5	35.64
MBN-50X7.5X3	8.28	MBN-75X7.5X3	8.28	MBN-110X7.5X3	11.63		
MBN-60X6.5X3	8.28	MBN-75X10X3	8.28	MBN-110X10X3	11.63		



METRIC

[SEAL INFORMATION]**MBT-SB****MATERIAL** 40% BRONZE FILLED PTFE**TEMPERATURE RANGE** -40° TO +500° F**PRESSURE RANGE** 0 TO 5,000 PSI**PART NUMBER** (Prefix) - (ID) X (CS) X (W)

Filled PTFE Back-up rings primarily used with U-seals.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MBT-8X5X2SB	\$ 2.34	MBT-35.5X7.5X3SB	\$ 7.77	MBT-65X6.5X3SB	\$ 28.66	MBT-105X10X3SB	\$ 24.58
MBT-10X5X2SB	2.34	MBT-38X5X3SB	11.64	MBT-65X7.5X3SB	26.93	MBT-106X7X2SB	51.02
MBT-14X5X2SB	2.52	MBT-40X5X3SB	13.15	MBT-65X10X3SB	37.31	MBT-110X7.5X3SB	38.51
MBT-15X5X2SB	2.52	MBT-40X7.5X3SB	13.86	MBT-66X6.5X3SB	22.62	MBT-110X10X3SB	27.22
MBT-16X4X2SB	2.34	MBT-40X8X3SB	9.07	MBT-67X5X3SB	12.11	MBT-112X6.5X3SB	25.36
MBT-16X5X2SB	2.93	MBT-45X5X3SB	11.00	MBT-70X5X3SB	19.31	MBT-115X7.5X3SB	24.74
MBT-18X4X2SB	2.75	MBT-45X5.5X3SB	8.39	MBT-70X6.5X3SB	16.78	MBT-115X8.5X3SB	28.24
MBT-18X5X2SB	2.93	MBT-45X8X3SB	10.09	MBT-70X7.5X3SB	14.49	MBT-115X10X3SB	37.85
MBT-20X4X2SB	2.75	MBT-45X10X3SB	17.99	MBT-70X10X3SB	36.83	MBT-115X10X4SB	14.00
MBT-20X5X2SB	2.93	MBT-48X7.5X3SB	9.51	MBT-70X10X4SB	25.86	MBT-120X7.5X3SB	25.86
MBT-22.4X3.8X2SB	2.93	MBT-50X5X3SB	19.66	MBT-71X4.5X3SB	12.47	MBT-120X10X3SB	28.08
MBT-22.4X5.3X2SB	2.93	MBT-50X6.5X3SB	20.48	MBT-71X5X3SB	12.67	MBT-125X7.5X3SB	26.65
MBT-23.5X4X2SB	2.93	MBT-50X7.5X3SB	22.87	MBT-71X10X3SB	16.92	MBT-125X10X4SB	27.74
MBT-25X4X2SB	3.52	MBT-50X10X3SB	12.80	MBT-75X5X3SB	17.71	MBT-125X12.5X3SB	36.33
MBT-25X5X2SB	8.60	MBT-50.4X7.3X3SB	10.66	MBT-75X6.5X3SB	15.61	MBT-130X7.5X3SB	42.13
MBT-25X6.5X2SB	4.08	MBT-55X5X3SB	24.07	MBT-75X7.5X3SB	25.71	MBT-130X10X3SB	30.28
MBT-25.5X5X2SB	3.71	MBT-55X6.5X3SB	22.35	MBT-75X10X3SB	18.06	MBT-130X10X4SB	44.66
MBT-27X6.5X3SB	6.65	MBT-55X7.5X3SB	20.55	MBT-76X6.9X3SB	27.90	MBT-135X7.5X3SB	28.87
MBT-28X3.75X3SB	5.07	MBT-55X8X3SB	24.88	MBT-80X5X3SB	21.94	MBT-135X10X3SB	30.97
MBT-28X6X3SB	6.65	MBT-55X10X3SB	28.19	MBT-80X6.5X3SB	31.30	MBT-135X12.5X3SB	39.12
MBT-28X6.5X3SB	6.65	MBT-56X5X3SB	9.95	MBT-80X7.5X3SB	21.77	MBT-136X7X3SB	26.96
MBT-30X5X1.9SB	2.20	MBT-60X5X3SB	24.76	MBT-80X10X3SB	20.06	MBT-140X7.5X3SB	29.68
MBT-30X5X3SB	5.64	MBT-60X5.5X3SB	11.31	MBT-85X7.5X3SB	36.57	MBT-140X10X3SB	30.83
MBT-30X6.5X3SB	11.23	MBT-60X6.5X3SB	14.93	MBT-85X10X3SB	21.06	MBT-140X10X4SB	38.77
MBT-31.5X5X3SB	6.04	MBT-60X7.5X3SB	18.43	MBT-90X7.5X3SB	23.96	MBT-140X12.5X3SB	40.50
MBT-31.5X6.5X3SB	6.65	MBT-60X8X3SB	11.71	MBT-90X10X3SB	44.11	MBT-145X7.5X3SB	30.82
MBT-32X8X3SB	13.85	MBT-60X10X3SB	13.68	MBT-95X7.5X3SB	38.51	MBT-145X10X3SB	32.99
MBT-34X8X3SB	7.91	MBT-63X5X3SB	11.11	MBT-95X10X3SB	47.22	MBT-145X12.5X3SB	41.76
MBT-35X5X3SB	18.54	MBT-63.5X3.8X4.3SB	27.90	MBT-100X7.5X3SB	36.47	MBT-150X7.5X3SB	31.92
MBT-35X7.5X3SB	7.31	MBT-64X8X3SB	14.19	MBT-100X10X3SB	23.73	MBT-150X10X3SB	31.60
MBT-35.5X4.75X3SB	6.65	MBT-65X5X3SB	12.11	MBT-105X7.5X3SB	37.55	MBT-155X7.5X4SB	30.62

MBT U-SEAL BACK-UP RINGS

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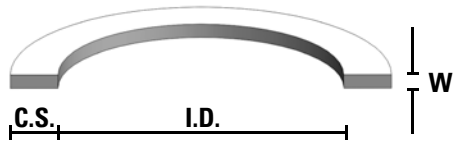
ROD SEALS

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MBT-155X10X4SB	\$ 43.87	MBT-160X12.5X3SB	\$ 77.04	MBT-170X12.5X4SB	\$ 59.10	MBT-190X10X4SB	\$ 84.80
MBT-155X12.5X4SB	55.41	MBT-165X7.5X4SB	33.82	MBT-170X15X4SB	73.60	MBT-190X12.5X4SB	47.00
MBT-160X7.5X4SB	32.09	MBT-170X5X4SB	43.30	MBT-175X7.5X4SB	37.48	MBT-200X12.5X4SB	75.59
MBT-160X10X3SB	34.23	MBT-170X7.5X4SB	36.39	MBT-175X12.5X4SB	62.06	MBT-220X10X3SB	98.61
MBT-160X10X4SB	45.01	MBT-170X10X4SB	47.51	MBT-180X12.5X4SB	81.36	MBT-280X12.5X4SB	96.53

MBT U-SEAL BACK-UP RINGS

[SEAL INFORMATION]

MBT



FILLED PTFE SUFFIX:
SG = Split Glass Filled
GM = Solid Glass/Moly
NO SUFFIX = Solid Virgin PTFE

MATERIAL	VIRGIN OR FILLED PTFE
TEMPERATURE RANGE	-40° TO +500° F
PRESSURE RANGE	0 TO 5,000 PSI
PART NUMBER	(Prefix) - (ID) X (CS) X (W)

Filled PTFE Back-up rings primarily used with U-seals.

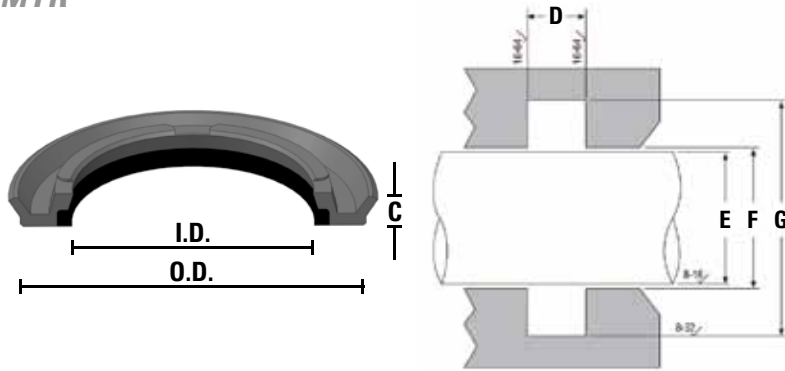
PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MBT-12X3.15X1.5	\$ 1.48	MBT-36X4X1.5	\$ 3.24	MBT-50X7.5X0.6	\$ 5.85	MBT-75X5X1.5SG	\$ 8.19
MBT-14X3.15X1.5	1.48	MBT-40X5X0.5	7.80	MBT-50X7.5X2SG	7.92	MBT-75X5X2SG	12.40
MBT-18X3.5X1.5	1.93	MBT-40X5X1.5	7.26	MBT-50X7.5X3	11.71	MBT-75X7.5X2SG	9.92
MBT-20X1X.85GM	9.85	MBT-40X5X2SG	14.63	MBT-50X8X3G	16.57	MBT-75X10X2C	18.92
MBT-21X3X2.5	6.65	MBT-40X6.5X2SG	10.53	MBT-53X5X2SG	4.55	MBT-79X5X6	49.63
MBT-22X3.5X1.5	2.16	MBT-42X6.5X2SG	7.73	MBT-55X5X1.5SG	7.44	MBT-84X10X2.5SG	15.90
MBT-22X4X1SG	5.67	MBT-43X2.5X0.6	5.76	MBT-55X7.5X2SG	6.28	MBT-85X7.5X2SG	9.21
MBT-25X4X1SG	6.63	MBT-45X4X1.5	4.06	MBT-56X5X1.5	9.96	MBT-90X5X1.9	6.32
MBT-25.5X3X1.25	1.76	MBT-45X5X1.5SG	6.80	MBT-60X5X1.5SG	7.53	MBT-90X5X2SG	10.72
MBT-26X2X2.5SG	14.15	MBT-45X5X2SGM	22.17	MBT-60X7.5X0.5	18.54	MBT-90X7.5X2SG	9.50
MBT-28X4X1.5	4.81	MBT-45X5X3SGM	18.54	MBT-65X5X1.5SG	7.73	MBT-90X10X3	21.94
MBT-29.5X3X1.25	1.67	MBT-45X5X6	47.70	MBT-65X7.5X2SG	10.35	MBT-93X5X1.7	19.85
MBT-30X5X1.5SG	6.80	MBT-45X5.5X0.5	6.38	MBT-65X10X3	20.48	MBT-95X7.5X2SG	10.63
MBT-32X4X1SG	15.45	MBT-45X7.5X3	17.86	MBT-70X5X1.5	11.49	MBT-95X10X3	22.81
MBT-32X4.8X1.5SG	9.54	MBT-48X7.5X2SG	9.95	MBT-70X5X1.5SG	7.99	MBT-100X7.5X1.5	9.38
MBT-32X5X2SG	8.83	MBT-50X5X1.5SG	7.36	MBT-70X7.5X2SG	10.97	MBT-105X7.5X2SG	11.37
MBT-35X5X1.5SG	7.07	MBT-50X5X1.9	9.26	MBT-70X10X3C	18.34	MBT-112X7.5X3SCG	15.79
MBT-35X5X2SG	8.83	MBT-50X6.5X2SG	12.20	MBT-74.4X2.6X1.8	8.32	MBT-115X7.5X2G	19.39



METRIC

[SEAL INFORMATION]

MYR

**MATERIAL**URETHANE BUFFER
NYLON ENERGIZER**TEMPERATURE RANGE**

-30° TO +220° F

PRESSURE RANGE

0 TO 7,000 PSI

PART NUMBER

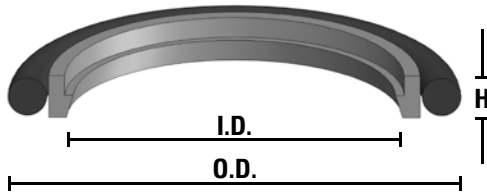
(Prefix) - (ID) X (OD) X (H)

Molded in urethane and employing a back-up, this seal absorbs the shock of pressure spikes protecting the rod seal. The unique design relieves back pressure between the buffer and the rod seal.

PART NUMBER	C - NOM. HEIGHT	D - GROOVE WIDTH	E - ROD DIAMETER	F - THROAT DIAMETER	G - HOUSING DIAMETER	LIST PRICE
MYR-40X50.7X3.9	3.9	4.2 +0.20/-0.00	40-0.025/-0.064	40 +0.062/-0.000	50.70 +0.20/-0.00	\$ 43.81
MYR-40X55.5X5.9	5.9	6.3 +0.20/-0.00	40-0.025/-0.064	40 +0.062/-0.000	55.50 +0.20/-0.00	7.44
MYR-45X55.7X3.9	3.9	4.2 +0.20/-0.00	45-0.025/-0.064	45 +0.062/-0.000	55.70 +0.20/-0.00	55.09
MYR-45X60.5X5.9	5.9	6.3 +0.20/-0.00	45-0.025/-0.064	45 +0.062/-0.000	60.50 +0.20/-0.00	7.88
MYR-50X65.5X5.9	5.9	6.3 +0.20/-0.00	50-0.025/-0.064	50 +0.062/-0.000	65.50 +0.20/-0.00	15.19
MYR-55X70.5X5.9	5.9	6.3 +0.20/-0.00	55-0.030/-0.076	55 +0.074/-0.000	70.50 +0.20/-0.00	15.25
MYR-56-71.5X5.9	5.9	6.3 +0.20/-0.00	56-0.030/-0.076	56 +0.074/-0.000	71.50 +0.20/-0.00	29.44
MYR-60X75.5X5.9	5.9	6.3 +0.20/-0.00	60-0.030/-0.076	60 +0.074/-0.000	75.50 +0.20/-0.00	21.70
MYR-63X78.5X5.9	5.9	6.3 +0.20/-0.00	63-0.030/-0.076	63 +0.074/-0.000	78.50 +0.20/-0.00	16.98
MYR-65X80.5X5.9	5.9	6.3 +0.20/-0.00	65-0.030/-0.076	65 +0.074/-0.000	80.50 +0.20/-0.00	25.78
MYR-70X85.5X5.9	5.9	6.3 +0.20/-0.00	70-0.030/-0.076	70 +0.074/-0.000	85.50 +0.20/-0.00	28.14
MYR-75X90.5X5.9	5.9	6.3 +0.20/-0.00	75-0.030/-0.076	75 +0.074/-0.000	90.50 +0.20/-0.00	29.91
MYR-80X95.5X5.9	5.9	6.3 +0.20/-0.00	80-0.030/0.076	80 +0.074/0.000	95.50 +0.20/-0.00	31.68
MYR-85X100.5X5.9	5.9	6.3 +0.20/-0.00	85-0.036/-0.090	85 +0.087/-0.000	100.50 +0.20/-0.00	34.00
MYR-90X105.5X5.9	5.9	6.3 +0.20/-0.00	90-0.036/-0.090	90 +0.087/-0.000	105.50 +0.20/-0.00	41.04
MYR-95X110.5X5.9	5.9	6.3 +0.20/-0.00	95-0.036/-0.090	95 +0.087/-0.000	110.50 +0.20/-0.00	43.32
MYR-100X115.5X5.9	5.9	6.3 +0.20/-0.00	100-0.036/-0.090	100 +0.087/-0.000	115.50 +0.20/-0.00	44.57
MYR-105X120.5X5.9	5.9	6.3 +0.20/-0.00	105-0.036/-0.090	105 +0.087/-0.000	120.50 +0.20/-0.00	46.20
MYR-110X125.5X5.9	5.9	6.3 +0.20/-0.00	110-0.036/-0.090	110 +0.087/-0.000	125.50 +0.20/-0.00	48.08
MYR-115X130.5X5.9	5.9	6.3 +0.20/-0.00	115-0.036/-0.090	115 +0.087/-0.000	130.50 +0.20/-0.00	26.52
MYR-120X135.5X5.9	5.9	6.3 +0.20/-0.00	120-0.036/-0.090	120 +0.087/-0.000	135.50 +0.20/-0.00	52.21
MYR-125X140.5X5.9	5.9	6.3 +0.20/-0.00	125-0.043/-0.106	125 +0.100/-0.000	140.50 +0.20/-0.00	30.58
MYR-130X145.5X5.9	5.9	6.3 +0.20/-0.00	130-0.043/-0.106	130 +0.100/-0.000	145.50 +0.20/-0.00	81.03
MYR-140X155.5X5.9	5.9	6.3 +0.20/-0.00	140-0.043/-0.106	140 +0.100/-0.000	155.50 +0.20/-0.00	131.96
MYR-150X165.5X5.9	5.9	6.3 +0.20/-0.00	150-0.043/-0.106	150 +0.100/-0.000	165.50 +0.20/-0.00	86.49
MYR-155X170.5X5.9	5.9	6.3 +0.20/-0.00	155-0.043/-0.106	155 +0.100/-0.000	170.50 +0.20/-0.00	103.34
MYR-160X175.5X5.9	5.9	6.3 +0.20/-0.00	160-0.043/-0.106	160 +0.100/-0.000	175.50 +0.20/-0.00	132.62
MYR-165X180.5X5.9	5.9	6.3 +0.20/-0.00	165-0.043/-0.106	165 +0.100/-0.000	180.50 +0.20/-0.00	165.70
MYR-170X185.5X5.9	5.9	6.3 +0.20/-0.00	170-0.043/-0.106	170 +0.100/-0.000	185.50 +0.20/-0.00	186.99
MYR-180X195.5X5.9	5.9	6.3 +0.20/-0.00	180-0.043/-0.106	180 +0.100/-0.000	195.50 +0.20/-0.00	260.97
MYR-190X205.5X5.9	5.9	6.3 +0.20/-0.00	190-0.050/-0.122	190 +0.115/-0.000	205.50 +0.20/-0.00	157.16

[SEAL INFORMATION]

MBR



MATERIAL

FILLED PTFE BUFFER
NITRILE 70 ENERGIZER

TEMPERATURE RANGE

-40° TO +220° F

PRESSURE RANGE

0 TO 5,000 PSI

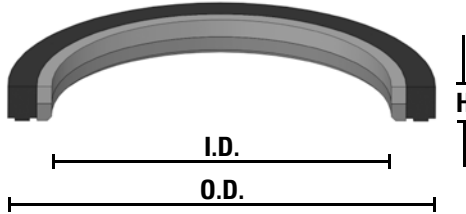
PART NUMBER

(Prefix) - (ID) X (OD) X (H)

Molded in PTFE with a rubber energizer, this seal absorbs the shock of pressure spikes protecting the rod seal.
NOTE: For higher temperatures, the nitrile O-ring in this seal can be replaced by a fluorocarbon O-ring at an additional charge.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MBR-06X11X2	\$ 3.84	MBR-28X35.5X3	\$ 6.84	MBR-50X61X4	\$ 15.98	MBR-95X110.5X5.9	\$ 38.50
MBR-08X13X2	11.76	MBR-28X39X4	6.84	MBR-50X62.6X4	26.59	MBR-100X115.5X5.9	39.10
MBR-08X15.5X3	10.35	MBR-30X37.5X3	8.17	MBR-50X65.5X5.9	15.98	MBR-105X120.5X5.9	44.49
MBR-10X17.5X3	4.40	MBR-30X40.7X3.9	22.40	MBR-55X70.5X5.9	26.69	MBR-110X125.5X5.9	46.45
MBR-12X17X2	4.57	MBR-32X39.5X3	14.91	MBR-56X66.7X4.2	26.11	MBR-115X130.5X5.9	46.30
MBR-12X19.5X3	9.52	MBR-32X43X4	7.46	MBR-56X68.6X4	26.69	MBR-120X130.5X5.9	43.31
MBR-14X21.5X3	6.63	MBR-35X42.5X3	19.13	MBR-56X71.5X5.9	19.23	MBR-120X135.5X5.9	46.52
MBR-15X22.5X3	9.52	MBR-35X46X4	8.05	MBR-60X71X4	20.32	MBR-125X140.5X5.9	47.06
MBR-16X21X2	6.60	MBR-36X43.5X3	8.17	MBR-60X75.5X5.9	26.69	MBR-130X145.5X5.9	47.43
MBR-16X23.5X3	6.28	MBR-36X47X4	8.05	MBR-63X75.6X3.9	27.36	MBR-140X155X5.9	43.70
MBR-18X23X2	8.90	MBR-40X51X4	13.12	MBR-63X78.5X5.9	22.02	MBR-150X165.5X5.9	50.55
MBR-18X25.5X3	4.79	MBR-40X52.6X4	22.70	MBR-65X80.5X5.9	25.72	MBR-160X175.5X5.9	52.04
MBR-20X27.5X3	6.74	MBR-40X55.5X5.9	17.94	MBR-70X81X4	23.58	MBR-170X185.5X5.9	54.19
MBR-20X31X4	6.74	MBR-45X56X4	15.98	MBR-70X85.5X5.9	29.87	MBR-170X190.5X8.1	97.20
MBR-22X29.5X3	6.85	MBR-45X57.6X4	21.81	MBR-75X90.5X5.9	31.88	MBR-180X195.5X5.9	107.23
MBR-22X33X4	6.85	MBR-45X60.5X5.9	15.98	MBR-80X95.5X5.9	34.36	MBR-190X205.5X5.9	118.74
MBR-25X32.5X3	6.84	MBR-50X60X4.5	20.90	MBR-85X100.5X5.9	33.91	MBR-200X221X7.9	130.84
MBR-25X35.7X4	17.75	MBR-50X60.8X4.2	11.85	MBR-90X105.5X5.9	37.29		



[SEAL INFORMATION]**MNBR****MATERIAL**
 NYLON / PTFE BUFFER
 NITRILE 70 ENERGIZER
TEMPERATURE RANGE

-40° TO +220° F

PRESSURE RANGE

0 TO 5,000 PSI

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

Molded in PTFE with a rubber energizer and nylon anti-extrusion ring, this seal absorbs the shock of pressure spikes protecting the rod seal.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MNBR-55X70.5X5.9	\$ 35.75	MNBR-75X90.5X5.9	\$ 46.71	MNBR-95X110.5X5.9	\$ 57.71	MNBR-115X130.5X5.9	\$ 71.49
MNBR-60X75.5X5.9	38.49	MNBR-80X95.5X5.9	49.51	MNBR-100X115.5X5.9	63.21	MNBR-120X135.5X5.9	75.68
MNBR-65X80.5X5.9	41.33	MNBR-85X100.5X5.9	52.25	MNBR-105X120.5X5.9	65.94	MNBR-125X140.5X5.9	38.64
MNBR-70X85.5X5.9	43.98	MNBR-90X105.5X5.9	54.98	MNBR-110X125.5X5.9	68.74		



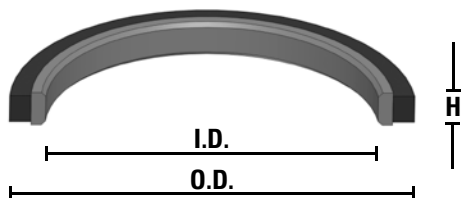
MSBR BUFFER SEALS

289

BUFFER SEALS

[SEAL INFORMATION]

MSBR



MATERIAL

NYLON BUFFER
NITRILE 70 ENERGIZER

TEMPERATURE RANGE

-40° TO +220° F

PRESSURE RANGE

0 TO 5,000 PSI

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

Molded in Nylon with a rubber energizer, this style absorbs the shock of pressure spikes and relieves back pressure by way of slots on the pressure side of the energizer.

PART NUMBER	LIST PRICE
MSBR-70X80X6.3	\$ 19.42
MSBR-75X85X6.3	20.63
MSBR-80X90X6.3	21.84

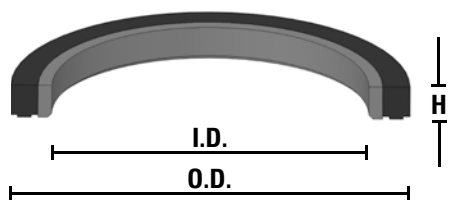
PART NUMBER	LIST PRICE
MSBR-85X95X6.3	\$ 23.05
MSBR-90X100X6.3	24.27
MSBR-95X105X6.3	25.49

PART NUMBER	LIST PRICE
MSBR-100X110X6.3	\$ 27.90
MSBR-110X120X6.3	30.33
MSBR-120X130X6.3	31.54

MYBR BUFFER SEALS

[SEAL INFORMATION]

MYBR



MATERIAL

FILLED PTFE BUFFER
NITRILE 70 ENERGIZER

TEMPERATURE RANGE

-40° TO +220° F

PRESSURE RANGE

0 TO 5,000 PSI

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

Molded in PTFE with a rubber energizer, this seal absorbs the shock of pressure spikes protecting the rod seal. This style relieves back pressure by way of slots on the pressure side of the energizer.

PART NUMBER	LIST PRICE
MYBR-40X55.5X5.9	\$ 10.05
MYBR-45X60.5X5.9	10.83
MYBR-55X70.5X5.9	20.49
MYBR-60X75.5X5.9	22.13
MYBR-65X80.5X5.9	23.71

PART NUMBER	LIST PRICE
MYBR-70X85.5X5.9	\$ 25.30
MYBR-75X90.5X5.9	26.87
MYBR-80X95.5X5.9	28.45
MYBR-85X100.5X5.9	30.03
MYBR-90X105.5X5.9	31.61

PART NUMBER	LIST PRICE
MYBR-95X110.5X5.9	\$ 33.22
MYBR-100X115.5X5.9	36.36
MYBR-105X120.5X5.9	37.98
MYBR-110X125.5X5.9	39.55
MYBR-115X130.5X5.9	25.45

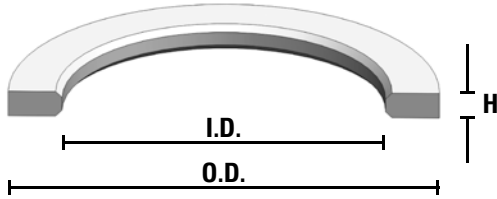
PART NUMBER	LIST PRICE
MYBR-120X135.5X5.9	\$ 41.12
MYBR-130X145.5X5.9	28.62

METRIC



[SEAL INFORMATION]

MIR



MATERIAL URETHANE

TEMPERATURE RANGE -65° TO +220° F

PRESSURE RANGE 0 TO 5,000 PSI

PART NUMBER (Prefix) - (ID) X (OD) X (H)

G2 = Glass / PTFE

Molded in polyurethane, this buffer seal is a simple, flat, washer-like profile.

PART NUMBER	LIST PRICE
MIR-25X33.6X2.3	\$ 18.46
MIR-30X41X2.9	20.68
MIR-35X46X2.9	3.66
MIR-35X48X3	7.52
MIR-40X48X3	10.54

PART NUMBER	LIST PRICE
MIR-50X55.5X3.4-G2	\$ 15.29
MIR-50X58X2.9	7.25
MIR-50X62.6X4	8.64
MIR-56X68.6X4	8.96
MIR-56X70X3	8.96

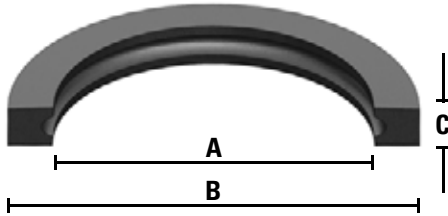
PART NUMBER	LIST PRICE
MIR-56X73X4.8	\$ 8.68
MIR-63X80X4.7	9.31
MIR-65X78X4	9.93
MIR-70X83X4	11.20
MIR-70X83.5X3	10.57

PART NUMBER	LIST PRICE
MIR-70X84X3	\$ 11.20
MIR-75X88X4	4.71
MIR-80X93X4	12.47
MIR-90X104X4	5.25
MIR-100X113X4	12.54



[SEAL INFORMATION]

RSS



MATERIAL	92A URETHANE
TEMPERATURE RANGE	-50° TO +220° F
PRESSURE RANGE	0 TO 5,000 PSI
SPEED	3 FT/SEC
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

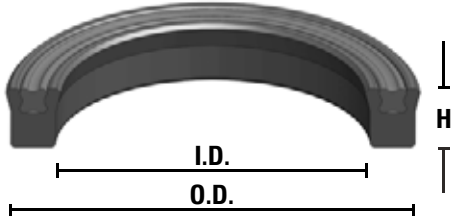
Molded in polyurethane, these rotary pressure seals are specifically designed for use in hydraulic swivel joints.

PART NUMBER	A I.D.	B O.D.	C HT	LIST PRICE
RSS-70X80X5	70	80	5	\$ 24.57
RSS-80X90X4.8	80	90	4.8	25.31
RSS-90X100X4.8	90	100	4.8	29.77
RSS-95X105X4.8	95	105	4.8	30.08
RSS-100X110X4.8	100	110	4.8	33.85
RSS-110X120X5	110	120	5	35.18
RSS-115X125X5	115	125	5	36.06
RSS-120X130X5	120	130	5	37.22



[SEAL INFORMATION]

MPS



MATERIAL 93A URETHANE

TEMPERATURE RANGE -65° TO +250° F

PRESSURE RANGE 0 TO 5,000 PSI

PART NUMBER (Prefix) - (ID) X (OD) X (H)

Made from tough polyurethane material, Metric Polyseals provide excellent resistance to wear and abrasion. Loaded with a four-lobed nitrile Quad Ring for better low temperature performance, these seals have a wide variety of rod and piston applications. NOTE: MPS seals are also available in our Hi-temp polyurethane material. Please call for pricing and sizes not listed.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MPS-008-016-05	\$ 3.71	MPS-020-028-05	\$ 4.77	MPS-025-035-07.3	\$ 12.83	MPS-032-044-05.5	\$ 13.52
MPS-009-019-08	4.11	MPS-020-028-05.7	9.50	MPS-025-035-08	6.24	MPS-032-044-06.3	12.79
MPS-010-016-06	3.86	MPS-020-028-07.2	10.62	MPS-025-035-10	6.70	MPS-032-045-10	14.74
MPS-010-018-05.7	3.71	MPS-020-030-06	9.26	MPS-025-038-08	13.87	MPS-032-047-10	7.96
MPS-010-018-08	3.71	MPS-020-030-07.2	9.67	MPS-025-038-10	13.87	MPS-032-048-10	9.33
MPS-010-020-08	3.78	MPS-020-030-08	4.96	MPS-025-040-10	19.97	MPS-033-040-08	12.55
MPS-011.2-019.2-05	3.71	MPS-020-032-06	9.23	MPS-028-035.5-05	6.95	MPS-033-043-10	13.71
MPS-012-018-06	4.05	MPS-020-032-08	9.23	MPS-028-036-05.3	13.07	MPS-035-043-06.4	12.94
MPS-012-019-04.6	3.96	MPS-020-035-10	8.81	MPS-028-036-08	10.58	MPS-035-043-08	15.52
MPS-012-020-06.4	4.24	MPS-020-035-12	8.81	MPS-028-038-07.3	14.04	MPS-035-045-06	8.34
MPS-012-022-06	4.07	MPS-020-040-12	9.93	MPS-028-038-08	6.90	MPS-035-045-07.3	13.79
MPS-012-022-07.3	4.11	MPS-022-029-04.6	10.93	MPS-028-040-10	6.48	MPS-035-045-08	13.79
MPS-012-022-08	4.07	MPS-022-030-05	5.09	MPS-028-043-10.2	14.71	MPS-035-045-10	7.94
MPS-012.5-022.5-08	4.29	MPS-022-030-05.7	5.34	MPS-030-037-06	11.74	MPS-035.5-045-06	18.92
MPS-013-019-04	4.18	MPS-022-030-06	5.09	MPS-030-038-05.7	10.80	MPS-035-050-10	6.71
MPS-014-021-04.6	4.07	MPS-022-030-07	6.60	MPS-030-038-06.3	10.80	MPS-035-050-11.4	20.07
MPS-014-022-05	4.20	MPS-022-030-08	7.52	MPS-030-038-08	14.37	MPS-035-055-10	9.30
MPS-014-024-05.5	4.80	MPS-022-032-06	10.94	MPS-030-040-06	7.84	MPS-036-044-05.3	13.93
MPS-014-024-08	4.32	MPS-022-032-07.3	12.74	MPS-030-040-06.5	7.84	MPS-036-044-06	5.33
MPS-015-022-05	4.37	MPS-022-032-08	6.66	MPS-030-040-07.3	13.66	MPS-036-044-08	11.48
MPS-015-025-08	4.48	MPS-022-035-08	5.64	MPS-030-040-10	6.80	MPS-036-046-07.3	14.75
MPS-016-022-04	7.05	MPS-022-035-10	5.73	MPS-030-042-09	8.18	MPS-036-046-10	9.39
MPS-016-024-05	3.98	MPS-022-040-12	6.53	MPS-030-042-10	14.94	MPS-036-052-10	15.91
MPS-016-026-08	4.56	MPS-022.4-030-05	5.43	MPS-030-045-10	6.00	MPS-037-047-08	13.92
MPS-017-025-10	10.11	MPS-022.4-032.4-08	6.50	MPS-030-050-10	8.78	MPS-040-048-05	11.37
MPS-018-025-04.6	4.57	MPS-023.5-031.5-05	10.14	MPS-031.5-041.5-06	13.48	MPS-040-048-06	11.42
MPS-018-026-05	4.38	MPS-025-033-05	5.29	MPS-032-040-05.7	13.18	MPS-040-048-08	7.90
MPS-018-028-08	7.92	MPS-025-033-05.7	10.42	MPS-032-040-08	6.37	MPS-040-050-06	8.86
MPS-020-026-05	4.01	MPS-025-033-08	6.91	MPS-032-042-07.3	8.32	MPS-040-050-07.3	9.78
MPS-020-027-06	5.09	MPS-025-033-10	8.94	MPS-032-042-10	7.40	MPS-040-050-08	11.47



MPS LOADED SYMMETRICAL U-SEALS

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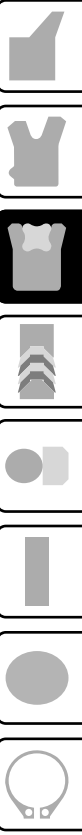
U-SEALS

PART NUMBER	LIST PRICE
MPS-040-050-10	\$ 9.26
MPS-040-053-08	9.91
MPS-040-055-09	9.90
MPS-040-055-10	9.41
MPS-040-056-10	15.37
MPS-040-060-12	12.73
MPS-042-055-07	9.71
MPS-044-055-10	16.72
MPS-045-053-05.3	15.74
MPS-045-053-08	8.78
MPS-045-055-06	9.62
MPS-045-055-10	11.96
MPS-045-056-07	17.01
MPS-045-060-09	12.00
MPS-045-060-10	12.00
MPS-045-060-11.5	17.04
MPS-045-063-12	17.94
MPS-045-065-12	13.00
MPS-048-063-10.2	18.45
MPS-048-068-12	20.15
MPS-050-058-08	15.60
MPS-050-060-06	9.59
MPS-050-060-07.3	11.00
MPS-050-060-10	9.26
MPS-050-060-12	17.71
MPS-050-063-08	17.62
MPS-050-063-10	17.62
MPS-050-065-09	12.53
MPS-050-065-10	14.11
MPS-050-065-11.4	19.85
MPS-050-070-10	18.57
MPS-050-070-12	14.24
MPS-053-063-06	9.98
MPS-053-063-10	19.40
MPS-055-065-06	10.32
MPS-055-065-10	17.97
MPS-055-065-12	15.58
MPS-055-068-10	16.23
MPS-055-070-09	13.21
MPS-055-070-12	23.11
MPS-055-075-12	16.19
MPS-055-080-15	21.24
MPS-056-064-08	17.07

PART NUMBER	LIST PRICE
MPS-056-066-06	\$ 10.09
MPS-056-066-10	18.80
MPS-056-071-11.4	20.19
MPS-060-068-08	16.13
MPS-060-070-06	10.48
MPS-060-070-08	17.96
MPS-060-070-09	9.94
MPS-060-070-10	9.94
MPS-060-070-12	15.81
MPS-060-071-07	9.22
MPS-060-075-09	14.25
MPS-060-075-11	18.28
MPS-060-080-12	14.39
MPS-060-080-14.5	22.76
MPS-062-072-12	22.68
MPS-063-071-08	16.95
MPS-063-073-12	23.34
MPS-063-075-08.7	14.20
MPS-063-078-10.6	14.08
MPS-063-078-11.4	20.70
MPS-063-083-15	17.51
MPS-065-073-08	16.44
MPS-065-075-06	11.11
MPS-065-075-08	14.37
MPS-065-075-10	16.51
MPS-065-075-12	19.91
MPS-065-078-10	22.18
MPS-065-080-09	15.68
MPS-065-080-12	20.46
MPS-065-085-12	16.53
MPS-067-077-06	20.81
MPS-070-078-08	18.99
MPS-070-080-06	12.80
MPS-070-080-10	18.90
MPS-070-080-12	16.42
MPS-070-083-10	25.22
MPS-070-085-09	15.58
MPS-070-085-10	15.58
MPS-070-085-11.4	12.48
MPS-070-085-12	24.32
MPS-070-090-12	20.10
MPS-070-090-15	24.97
MPS-071-080-06	11.01

PART NUMBER	LIST PRICE
MPS-072-082-05	\$ 20.28
MPS-072-087-09	21.86
MPS-075-083-06	22.61
MPS-075-085-06	12.46
MPS-075-085-08	21.11
MPS-075-085-10	22.54
MPS-075-085-12	17.70
MPS-075-090-09	18.23
MPS-075-090-10	18.51
MPS-075-090-11	25.48
MPS-075-090-11.4	25.96
MPS-075-090-12	28.51
MPS-075-095-12	20.93
MPS-075-100-15	26.23
MPS-078-090-11	30.09
MPS-080-088-08	28.76
MPS-080-090-06	14.15
MPS-080-090-08	28.08
MPS-080-090-10	27.67
MPS-080-090-12	27.66
MPS-080-092-09.5	24.23
MPS-080-093-10	30.37
MPS-080-095-09	28.68
MPS-080-095-11	28.68
MPS-080-095-11.4	22.69
MPS-080-100-10	27.78
MPS-080-100-12	19.96
MPS-080-100-14.5	32.09
MPS-080-100-15	34.37
MPS-082-092-10	38.21
MPS-084-098-12	36.10
MPS-085-100-09	20.07
MPS-085-100-10	31.32
MPS-085-100-12	28.70
MPS-085-105-12	24.03
MPS-088-102-10.5	35.26
MPS-090-098-08	24.37
MPS-090-100-06	21.06
MPS-090-105-09	22.25
MPS-090-105-10	27.26
MPS-090-105-11.4	28.60
MPS-090-105-12	27.26
MPS-090-110-12	31.44

PART NUMBER	LIST PRICE
MPS-090-110-14.5	\$ 27.53
MPS-095-105-06	25.57
MPS-095-110-09	31.61
MPS-095-110-10	31.61
MPS-095-110-12	33.82
MPS-095-115-12	30.01
MPS-097-105-13	39.26
MPS-098-110-16	42.57
MPS-100-108-08	21.50
MPS-100-115-09	25.03
MPS-100-115-10	25.14
MPS-100-115-12	30.06
MPS-100-120-12	27.33
MPS-100-120-14.5	33.09
MPS-100-125-12.4	37.08
MPS-100-125-15	41.83
MPS-100-125-18	41.74
MPS-105-120-09	26.85
MPS-105-125-11.4	30.21
MPS-105-125-12	30.21
MPS-105-125-15	32.60
MPS-106-120-08.5	36.60
MPS-110-125-09	26.27
MPS-110-125-10	27.43
MPS-110-130-12	26.39
MPS-110-130-14.5	27.22
MPS-110-130-15	28.22
MPS-110-135-18	45.86
MPS-112-125-07	44.38
MPS-112-125-09	24.14
MPS-115-130-08.5	38.93
MPS-115-135-12	28.54
MPS-115-140-18	49.64
MPS-120-130-15	36.08
MPS-120-135-09	34.53
MPS-120-135-15	40.18
MPS-120-140-10	33.64
MPS-120-140-12	35.64
MPS-120-140-14.5	28.90
MPS-120-140-15	30.31
MPS-125-140-09	27.59
MPS-125-140-15	42.99
MPS-125-140-14.5	37.19



METRIC

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MPS-125-145-15	\$ 31.78	MPS-150-160-08	\$ 44.34	MPS-175-200-16	\$ 45.66	MPS-225-250-18	\$ 98.30
MPS-125-150-18	37.68	MPS-150-165-09	27.17	MPS-175-200-18	57.39	MPS-225-250-19	106.18
MPS-130-145-09	39.00	MPS-150-170-15	34.68	MPS-180-200-12.5	40.36	MPS-225-255-22.5	120.00
MPS-130-150-12	27.60	MPS-150-170-16	36.35	MPS-180-205-16	47.29	MPS-230-250-12.5	90.53
MPS-130-150-13	27.60	MPS-150-180-18	47.47	MPS-190-210-12	41.87	MPS-230-255-19	98.84
MPS-130-150-15	29.07	MPS-155-180-16	39.98	MPS-190-210-15	49.01	MPS-236-261-19	121.87
MPS-130-150-16	31.27	MPS-160-175-09	28.52	MPS-190-215-16	49.51	MPS-240-265-18	68.82
MPS-130-160-17	47.92	MPS-160-180-15	33.93	MPS-199-224-16	72.94	MPS-250-270-12	111.10
MPS-135-150-09	23.90	MPS-160-185-16	35.01	MPS-200-220-12.5	46.41	MPS-250-275-19	127.34
MPS-135-155-15	34.99	MPS-160-185-18	50.23	MPS-200-220-15	70.80	MPS-250-280-22.5	148.63
MPS-136-150-09	26.18	MPS-160-190-22.7	96.64	MPS-200-225-16	52.89	MPS-250-290-20	156.65
MPS-140-155-09	26.04	MPS-165-180-09.5	29.17	MPS-200-225-18	58.89	MPS-270-300-19	167.65
MPS-140-160-12	39.47	MPS-165-190-16	62.00	MPS-205-235-18	95.17	MPS-280-310-19	174.60
MPS-140-160-14.5	50.26	MPS-170-190-15	35.79	MPS-210-230-12	65.57	MPS-290-320-18	170.64
MPS-140-160-15	33.58	MPS-170-195-16	38.15	MPS-212-237-19	92.40	MPS-300-330-19	174.91
MPS-140-165-18.2	42.56	MPS-170-200-15	65.95	MPS-220-250-22.5	98.66	MPS-300-330-35	188.31
MPS-145-160-09	42.35	MPS-175-200-15	45.66	MPS-224-249-19	101.47		

Please call for additional sizes.

Note: MPS seals are also available in Hi-Temp 93A Lubrithane (U-1023) blue.

DON'T DAMAGE THAT U-SEAL

TRY OUR ROD U-SEAL INSTALLATION TOOLS

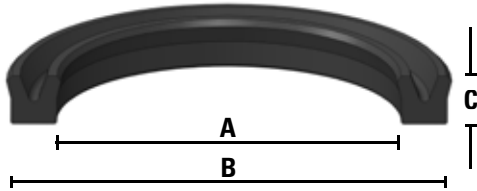
These handy tools aid u-seal installation, eliminating the risk of damaging the seal lip.

PART NUMBER	SEAL ID RANGE	LIST PRICE
IT100	3/4" to 1-1/4"	\$ 68.28
IT150	1-3/8" to 1-7/8"	68.28
IT200	2" to 3"	68.28

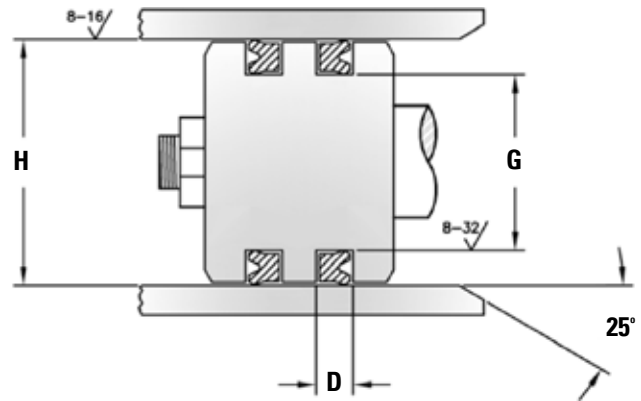
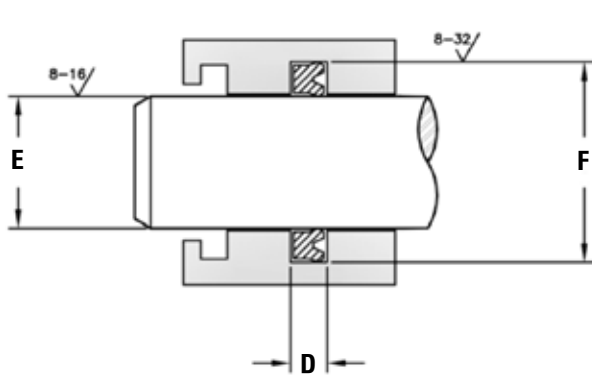


[SEAL INFORMATION]

MU-S



MATERIAL	90A URETHANE
TEMPERATURE RANGE	-22° TO +212° F
PRESSURE RANGE	0 TO 5,000 PSI
SPEED	3 FT/SEC
PART NUMBER	(Prefix) - (ID) - (OD) - (H)



Utilizing tough polyurethane, these seals possess excellent wear and abrasion resistance. Symmetrical in design, they can be used in rod or piston applications.

PART NUMBER	A NOM. ID	B NOM. OD	C NOM. HT	D GROOVE WIDTH	E ROD DIAMETER	F HOUSING DIAMETER	G GROOVE DIAMETER	H BORE DIAMETER	LIST PRICE
MU-4X10X4S	4	10	4	4.50 +0.30 +0.00	4.00 -0.010 -0.028	10.00 +0.00 -0.20	4.00 +0.000 -0.048	10.00 +0.036 +0.000	\$ 3.25
MU-4X10X4.5S	4	10	4.5	5.00 +0.30 +0.00	4.00 -0.010 -0.028	10.00 +0.00 -0.20	4.00 +0.000 -0.048	10.00 +0.036 +0.000	4.08
MU-5X11X5S	5	11	5	5.70 +0.30 +0.00	5.00 -0.010 -0.028	11.00 +0.00 -0.20	5.00 +0.000 -0.048	11.00 +0.043 +0.000	6.54
MU-5X12X6S	5	12	6	7.00 +0.30 +0.00	5.00 -0.010 -0.028	12.00 +0.00 -0.20	5.00 +0.000 -0.048	12.00 +0.043 +0.000	3.11
MU-5X12X6.2U	5	12	6.2	7.00 +0.30 +0.00	5.00 -0.010 -0.028	12.00 +0.00 -0.20	5.00 +0.000 -0.048	12.00 +0.043 +0.000	4.33
MU-6X12X4S	6	12	4	5.00 +0.30 +0.00	6.00 -0.010 -0.028	12.00 +0.00 -0.20	6.00 +0.000 -0.048	12.00 +0.043 +0.000	3.77
MU-6X12X6S	6	12	6	7.00 +0.30 +0.00	6.00 -0.010 -0.028	12.00 +0.00 -0.20	6.00 +0.000 -0.048	12.00 +0.043 +0.000	3.77
MU-6X12X8S	6	12	8	9.00 +0.30 +0.00	6.00 -0.010 -0.028	12.00 +0.00 -0.20	6.00 +0.000 -0.048	12.00 +0.043 +0.000	5.36
MU-8X14X6S	8	14	6	7.00 +0.30 +0.00	8.00 -0.013 -0.035	14.00 +0.00 -0.20	8.00 +0.000 -0.048	14.00 +0.043 +0.000	3.11
MU-8X15X8S	8	15	8	9.00 +0.30 +0.00	8.00 -0.013 -0.035	15.00 +0.00 -0.20	8.00 +0.000 -0.048	15.00 +0.043 +0.000	3.25
MU-8X16X5.7S	8	16	5.7	6.70 +0.30 +0.00	8.00 -0.013 -0.035	16.00 +0.00 -0.20	8.00 +0.000 -0.058	16.00 +0.043 +0.000	3.68
MU-10X16X4S	10	16	4	4.50 +0.30 +0.00	10.00 -0.013 -0.035	16.00 +0.00 -0.20	10.00 +0.000 -0.058	16.00 +0.043 +0.000	3.84
MU-10X16X6S	10	16	6	7.00 +0.30 +0.00	10.00 -0.013 -0.035	16.00 +0.00 -0.20	10.00 +0.000 -0.058	16.00 +0.043 +0.000	10.72



MU-S SYMMETRICAL U-SEALS

U-SEALS

PART NUMBER	A NOM. ID	B NOM. OD	C NOM. HT	D GROOVE WIDTH	E ROD DIAMETER	F HOUSING DIAMETER	G GROOVE DIAMETER	H BORE DIAMETER	LIST PRICE
MU-10X18X5.5S	10	18	5.5	6.50 +0.30 +0.00	10.00 -0.013 -0.035	18.00 +0.00 -0.20	10.00 +0.000 -0.058	18.00 +0.043 +0.000	\$ 3.61
MU-10X18X6S	10	18	6	7.00 +0.30 +0.00	10.00 -0.013 -0.035	18.00 +0.00 -0.20	10.00 +0.000 -0.058	18.00 +0.043 +0.000	3.61
MU-10X20X8S	10	20	8	9.00 +0.30 +0.00	10.00 -0.013 -0.035	20.00 +0.084 +0.000	10.00 +0.000 -0.058	20.00 +0.052 +0.000	3.99
MU-11.2X19.2X5S	11.2	19.2	5	5.70 +0.30 +0.00	11.20 -0.016 -0.043	19.20 +0.00 -0.20	11.20 +0.00 -0.07	19.20 +0.052 +0.000	4.11
MU-11.2X21.2X8S	11.2	21.2	8	9.00 +0.30 +0.00	11.20 -0.016 -0.043	21.20 +0.084 +0.000	11.20 +0.00 -0.07	21.20 +0.052 +0.000	5.34
MU-12X18X4.8S	12	18	4.8	5.30 +0.30 +0.00	12.00 -0.016 -0.043	18.00 +0.00 -0.20	12.00 +0.00 -0.07	18.00 +0.043 +0.000	5.31
MU-12X18X6S	12	18	6	7.00 +0.30 +0.00	12.00 -0.016 -0.043	18.00 +0.00 +0.20	12.00 +0.00 -0.07	18.00 +0.043 +0.000	3.32
MU-12X20X8S	12	20	8	9.00 +0.30 +0.00	12.00 -0.016 -0.043	20.00 +0.00 -0.20	12.00 +0.00 -0.07	20.00 +0.052 +0.000	3.32
MU-12X22X5S	12	22	5	5.70 +0.30 +0.00	12.00 -0.016 -0.043	22.00 +0.00 -0.20	12.00 +0.00 -0.07	22.00 +0.052 +0.000	3.99
MU-12X22X7S	12	22	7	8.00 +0.30 +0.00	12.00 -0.016 -0.043	22.00 +0.00 -0.20	12.00 +0.00 -0.07	22.00 +0.052 +0.000	4.03
MU-12X22X8S	12	22	8	9.00 +0.30 +0.00	12.00 -0.016 -0.043	22.00 +0.00 -0.20	12.00 +0.00 -0.07	22.00 +0.052 +0.000	4.03
MU-14X20X4.8S	14	20	4.8	5.30 +0.30 +0.00	14.00 -0.016 -0.043	20.00 +0.00 -0.20	14.00 +0.00 -0.07	20.00 +0.052 +0.000	3.77
MU-14X22X5S	14	22	5	5.70 +0.30 +0.00	14.00 -0.016 -0.043	22.00 +0.00 -0.20	14.00 +0.00 -0.07	22.00 +0.052 +0.000	4.23
MU-14X22X6S	14	22	6	7.00 +0.30 +0.00	14.00 -0.016 -0.043	22.00 +0.00 -0.20	14.00 +0.00 -0.07	22.00 +0.052 +0.000	4.23
MU-14X24X8S	14	24	8	9.00 +0.30 +0.00	14.00 -0.016 -0.043	24.00 +0.084 +0.000	14.00 +0.00 -0.07	24.00 +0.052 +0.000	4.11
MU-15X25X5S	15	25	5	5.70 +0.30 +0.00	15.00 -0.016 -0.043	25.00 +0.00 -0.20	15.00 +0.00 -0.07	25.00 +0.052 +0.000	6.50
MU-15X25X8S	15	25	8	9.00 +0.30 +0.00	15.00 -0.016 -0.043	25.00 +0.084 +0.000	15.00 +0.00 -0.07	25.00 +0.052 +0.000	4.86
MU-16X22X4S	16	22	4	4.50 +0.30 +0.00	16.00 -0.016 -0.043	22.00 +0.00 -0.20	16.00 +0.00 -0.07	22.00 +0.052 +0.000	4.11
MU-16X22X5S	16	22	5	5.70 +0.30 +0.00	16.00 -0.016 -0.043	22.00 +0.00 -0.20	16.00 +0.00 -0.07	22.00 +0.052 +0.000	4.11
MU-16X24X5S	16	24	5	5.70 +0.30 +0.00	16.00 -0.016 -0.043	24.00 +0.00 -0.20	16.00 +0.00 -0.07	24.00 +0.052 +0.000	4.37
MU-16X25X7.1S	16	25	7.1	8.25 +0.30 +0.00	16.00 -0.016 -0.043	25.00 +0.00 -0.20	16.00 +0.00 -0.07	25.00 +0.052 +0.000	6.63
MU-16X26X5S	16	26	5	5.70 +0.30 +0.00	16.00 -0.016 -0.043	26.00 +0.00 -0.20	16.00 +0.00 -0.07	26.00 +0.052 +0.000	4.76
MU-16X26X8S	16	26	8	9.00 +0.30 +0.00	16.00 -0.016 -0.043	26.00 +0.084 +0.000	16.00 +0.00 -0.07	26.00 +0.052 +0.000	5.75
MU-17X25X10S	17	25	10	11.00 +0.30 +0.00	17.00 -0.016 -0.043	25.00 +0.00 -0.20	17.00 +0.00 -0.07	25.00 +0.052 +0.000	4.99
MU-18X25X5S	18	25	5	5.70 +0.30 +0.00	18.00 -0.016 -0.043	25.00 +0.00 -0.20	18.00 +0.00 -0.07	25.00 +0.052 +0.000	4.73
MU-18X26X5S	18	26	5	5.70 +0.30 +0.00	18.00 -0.016 -0.043	26.00 +0.00 -0.20	18.00 +0.00 -0.07	26.00 +0.052 +0.000	4.89
MU-18X26X6.5S	18	26	6.5	7.50 +0.30 +0.00	18.00 -0.016 -0.043	26.00 +0.00 -0.20	18.00 +0.00 -0.07	26.00 +0.052 +0.000	4.86
MU-18X26X8S	18	26	8	9.00 +0.30 +0.00	18.00 -0.016 -0.043	26.00 +0.00 -0.20	18.00 +0.00 -0.07	26.00 +0.052 +0.000	6.94
MU-18X28X8S	18	28	8	9.00 +0.30 +0.00	18.00 -0.016 -0.043	28.00 +0.084 +0.000	18.00 +0.00 -0.07	28.00 +0.052 +0.000	4.86
MU-18X30X8S	18	30	8	9.00 +0.30 +0.00	18.00 -0.016 -0.043	30.00 +0.00 -0.20	18.00 +0.00 -0.07	30.00 +0.052 +0.000	5.36
MU-18X34X8S	18	34	8	9.00 +0.30 +0.00	18.00 -0.016 -0.043	34.00 +0.00 -0.20	18.00 +0.00 -0.07	34.00 +0.062 +0.000	8.70

METRIC

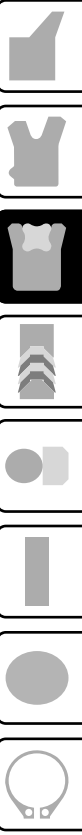


MU-S SYMMETRICAL U-SEALS

297

U-SEALS

PART NUMBER	A NOM. ID	B NOM. OD	C NOM. HT	D GROOVE WIDTH	E ROD DIAMETER	F HOUSING DIAMETER	G GROOVE DIAMETER	H BORE DIAMETER	LIST PRICE
MU-20X28X4S	20	28	4	4.50 +0.30 +0.00	20.00 -0.020 -0.053	28.00 +0.00 -0.20	20.00 +0.000 -0.084	28.00 +0.052 +0.000	\$ 7.33
MU-20X28X5S	20	28	5	5.70 +0.30 +0.00	20.00 -0.020 -0.053	28.00 +0.00 -0.20	20.00 +0.000 -0.084	28.00 +0.052 +0.000	6.32
MU-20X28X8S	20	28	8	9.00 +0.30 +0.00	20.00 -0.020 -0.053	28.00 +0.00 -0.20	20.00 +0.000 -0.084	28.00 +0.052 +0.000	5.24
MU-20X30X8S	20	30	8	9.00 +0.30 +0.00	20.00 -0.020 -0.053	30.00 +0.084 +0.000	20.00 +0.000 -0.084	30.00 +0.052 +0.000	5.50
MU-20X30X10S	20	30	10	11.00 +0.30 +0.00	20.00 -0.020 -0.053	30.00 +0.00 -0.20	20.00 +0.000 -0.084	30.00 +0.052 +0.000	5.50
MU-20X32X7.5S	20	32	7.5	8.50 +0.30 +0.00	20.00 -0.020 -0.053	32.00 +0.00 -0.20	20.00 +0.000 -0.084	32.00 +0.052 +0.000	6.97
MU-20X35X12S	20	35	12	13.00 +0.30 +0.00	20.00 -0.020 -0.053	35.00 +0.00 -0.20	20.00 +0.000 -0.084	35.00 +0.062 +0.000	5.75
MU-20X40X10S	20	40	10	11.00 +0.30 +0.00	20.00 -0.020 -0.053	40.00 +0.00 -0.20	20.00 +0.000 -0.084	40.00 +0.062 +0.000	6.75
MU-20X40X12S	20	40	12	13.00 +0.30 +0.00	20.00 -0.020 -0.053	40.00 +0.00 -0.20	20.00 +0.000 -0.084	40.00 +0.062 +0.000	10.29
MU-22X28X8S	22	28	8	9.00 +0.30 +0.00	22.00 -0.020 -0.053	28.00 +0.00 -0.20	22.00 +0.000 -0.084	28.00 +0.052 +0.000	5.87
MU-22X30X6S	22	30	6	7.00 +0.30 +0.00	22.00 -0.020 -0.053	30.00 +0.00 -0.20	22.00 +0.000 -0.084	30.00 +0.052 +0.000	5.50
MU-22X30X7S	22	30	7	8.00 +0.30 +0.00	22.00 -0.020 -0.053	30.00 +0.00 -0.20	22.00 +0.000 -0.084	30.00 +0.052 +0.000	7.02
MU-22X30X10S	22	30	10	11.00 +0.30 +0.00	22.00 -0.020 -0.053	30.00 +0.00 -0.20	22.00 +0.000 -0.084	30.00 +0.052 +0.000	5.80
MU-22X32X8S	22	32	8	9.00 +0.30 +0.00	22.00 -0.020 -0.053	32.00 +0.10 +0.00	22.00 +0.000 -0.084	32.00 +0.062 +0.000	5.75
MU-22X35X10S	22	35	10	11.00 +0.30 +0.00	22.00 -0.020 -0.053	35.00 +0.10 +0.00	22.00 +0.000 -0.084	35.00 +0.062 +0.000	5.36
MU-22.4X30X5S	22.4	30	5	5.70 +0.30 +0.00	22.40 -0.020 -0.053	30.00 +0.00 -0.20	22.40 +0.000 -0.084	30.00 +0.052 +0.000	8.64
MU-23.5X31.5X5S	23.5	31.5	5	5.70 +0.30 +0.00	23.50 -0.020 -0.053	31.50 +0.00 -0.20	23.50 +0.000 -0.084	31.50 +0.062 +0.000	6.57
MU-24X32X7S	24	32	7	8.00 +0.30 +0.00	24.00 -0.020 -0.053	32.00 +0.00 -0.20	24.00 +0.000 -0.084	32.00 +0.062 +0.000	4.76
MU-24X40X8S	24	40	8	9.00 +0.30 +0.00	24.00 -0.020 -0.053	40.00 +0.00 -0.20	24.00 +0.000 -0.084	40.00 +0.062 +0.000	6.02
MU-25X30X8S	25	30	8	9.00 +0.30 +0.00	25.00 -0.020 -0.053	30.00 +0.00 -0.20	25.00 +0.000 -0.084	30.00 +0.052 +0.000	6.79
MU-25X33X5S	25	33	5	5.70 +0.30 +0.00	25.00 -0.020 -0.053	33.00 +0.00 -0.20	25.00 +0.000 -0.084	33.00 +0.062 +0.000	8.72
MU-25X33X5.7S	25	33	5.7	6.30 +0.30 +0.00	25.00 -0.020 -0.053	33.00 +0.00 -0.20	25.00 +0.000 -0.084	33.00 +0.062 +0.000	7.31
MU-25X33X8S	25	33	8	9.00 +0.30 +0.00	25.00 -0.020 -0.053	33.00 +0.00 -0.20	25.00 +0.000 -0.084	33.00 +0.062 +0.000	5.75
MU-25X35X5S	25	35	5	5.70 +0.30 +0.00	25.00 -0.020 -0.053	35.00 +0.00 -0.20	25.00 +0.000 -0.084	35.00 +0.062 +0.000	5.36
MU-25X35X6S	25	35	6	7.00 +0.30 +0.00	25.00 -0.020 -0.053	35.00 +0.00 -0.20	25.00 +0.000 -0.084	35.00 +0.062 +0.000	8.72
MU-25X35X8S	25	35	8	9.00 +0.30 +0.00	25.00 -0.020 -0.053	35.00 +0.10 +0.00	25.00 +0.000 -0.084	35.00 +0.062 +0.000	4.37
MU-25X35X10S	25	35	10	11.00 +0.30 +0.00	25.00 -0.020 -0.053	35.00 +0.00 -0.20	25.00 +0.000 -0.084	35.00 +0.062 +0.000	5.36
MU-25X38X10S	25	38	10	11.00 +0.30 +0.00	25.00 -0.020 -0.053	38.00 +0.00 -0.20	25.00 +0.000 -0.084	38.00 +0.062 +0.000	5.50
MU-25X40X10S	25	40	10	11.00 +0.30 +0.00	25.00 -0.020 -0.053	40.00 +0.10 +0.00	25.00 +0.000 -0.084	40.00 +0.062 +0.000	8.27
MU-25X45X10S	25	45	10	11.00 +0.30 +0.00	25.00 -0.020 -0.053	45.00 +0.00 -0.20	25.00 +0.000 -0.084	45.00 +0.062 +0.000	9.19
MU-28X35X5S	28	35	5	5.70 +0.30 +0.00	28.00 -0.020 -0.053	35.00 +0.00 -0.20	28.00 +0.000 -0.084	35.00 +0.062 +0.000	5.50



METRIC

MU-S SYMMETRICAL U-SEALS

U-SEALS

PART NUMBER	A NOM. ID	B NOM. OD	C NOM. HT	D GROOVE WIDTH	E ROD DIAMETER	F HOUSING DIAMETER	G GROOVE DIAMETER	H BORE DIAMETER	LIST PRICE
MU-28X35.5X5S	28	35.5	5	5.70 +0.30 +0.00	28.00 -0.020 -0.053	35.50 +0.00 -0.20	28.00 +0.000 -0.084	35.50 +0.062 +0.000	\$ 9.38
MU-28X36X5S	28	36	5	5.70 +0.30 +0.00	28.00 -0.020 -0.053	36.00 +0.00 -0.20	28.00 +0.000 -0.084	36.00 +0.062 +0.000	6.25
MU-28X36X6.5S	28	36	6.5	7.50 +0.30 +0.00	28.00 -0.020 -0.053	36.00 +0.00 -0.20	28.00 +0.000 -0.084	36.00 +0.062 +0.000	4.76
MU-28X38X7S	28	38	7	8.00 +0.30 +0.00	28.00 -0.020 -0.053	38.00 +0.00 -0.20	28.00 +0.000 -0.084	38.00 +0.062 +0.000	3.75
MU-28X38X8S	28	38	8	9.00 +0.30 +0.00	28.00 -0.020 -0.053	38.00 +0.00 -0.20	28.00 +0.000 -0.084	38.00 +0.062 +0.000	5.50
MU-28X38X10S	28	38	10	11.00 +0.30 +0.00	28.00 -0.020 -0.053	38.00 +0.00 -0.20	28.00 +0.000 -0.084	38.00 +0.062 +0.000	3.42
MU-28X40X8S	28	40	8	9.00 +0.30 +0.00	28.00 -0.020 -0.053	40.00 +0.00 -0.20	28.00 +0.000 -0.084	40.00 +0.062 +0.000	6.02
MU-28X40X10S	28	40	10	11.00 +0.30 +0.00	28.00 -0.020 -0.053	40.00 +0.10 +0.00	28.00 +0.000 -0.084	40.00 +0.062 +0.000	6.02
MU-28X43X10S	28	43	10	11.00 +0.30 +0.00	28.00 -0.020 -0.053	43.00 +0.10 +0.00	28.00 +0.000 -0.084	43.00 +0.062 +0.000	5.82
MU-28X44X8S	28	44	8	9.00 +0.30 +0.00	28.00 -0.020 -0.053	44.00 +0.00 -0.20	28.00 +0.000 -0.084	44.00 +0.062 +0.000	3.59
MU-30X38X5S	30	38	5	5.70 +0.30 +0.00	30.00 -0.020 -0.053	38.00 +0.00 -0.20	30.00 +0.000 -0.084	38.00 +0.062 +0.000	12.39
MU-30X38X5.5S	30	38	5.5	6.50 +0.30 +0.00	30.00 -0.020 -0.053	38.00 +0.00 -0.20	30.00 +0.000 -0.084	38.00 +0.062 +0.000	5.72
MU-30X38X6S	30	38	6	7.00 +0.30 +0.00	30.00 -0.020 -0.053	38.00 +0.00 -0.20	30.00 +0.000 -0.084	38.00 +0.062 +0.000	5.90
MU-30X38X7S	30	38	7	8.00 +0.30 +0.00	30.00 -0.020 -0.053	38.00 +0.00 -0.20	30.00 +0.000 -0.084	38.00 +0.062 +0.000	7.58
MU-30X40X5S	30	40	5	5.70 +0.30 +0.00	30.00 -0.020 -0.053	40.00 +0.00 -0.20	30.00 +0.000 -0.084	40.00 +0.062 +0.000	6.75
MU-30X40X6S	30	40	6	7.00 +0.30 +0.00	30.00 -0.020 -0.053	40.00 +0.00 -0.20	30.00 +0.000 -0.084	40.00 +0.062 +0.000	8.11
MU-30X40X7S	30	40	7	8.00 +0.30 +0.00	30.00 -0.020 -0.053	40.00 +0.00 -0.20	30.00 +0.000 -0.084	40.00 +0.062 +0.000	7.69
MU-30X40X10S	30	40	10	11.00 +0.30 +0.00	30.00 -0.020 -0.053	40.00 +0.00 -0.20	30.00 +0.000 -0.084	40.00 +0.062 +0.000	7.99
MU-30X42X6S	30	42	6	7.00 +0.30 +0.00	30.00 -0.020 -0.053	42.00 +0.00 -0.20	30.00 +0.000 -0.084	42.00 +0.062 +0.000	10.13
MU-30X42X9S	30	42	9	10.00 +0.30 +0.00	30.00 -0.020 -0.053	42.00 +0.00 -0.20	30.00 +0.000 -0.084	42.00 +0.062 +0.000	8.36
MU-30X42X10S	30	42	10	11.00 +0.30 +0.00	30.00 -0.020 -0.053	42.00 +0.00 -0.20	30.00 +0.000 -0.084	42.00 +0.062 +0.000	8.68
MU-30X45X10S	30	45	10	11.00 +0.30 +0.00	30.00 -0.020 -0.053	45.00 +0.10 +0.00	30.00 +0.000 -0.084	45.00 +0.062 +0.000	6.88
MU-30X50X10S	30	50	10	11.00 +0.30 +0.00	30.00 -0.020 -0.053	50.00 +0.00 -0.20	30.00 +0.000 -0.084	50.00 +0.062 +0.000	7.63
MU-31.5X41.5X6S	31.5	41.5	6	7.00 +0.30 +0.00	31.50 -0.025 -0.064	41.50 +0.00 -0.20	31.50 +0.00 -0.10	41.50 +0.062 +0.000	10.91
MU-32X40X5S	32	40	5	5.70 +0.30 +0.00	32.00 -0.025 -0.064	40.00 +0.00 -0.20	32.00 +0.00 -0.10	40.00 +0.062 +0.000	3.98
MU-32X40X5.5S	32	40	5.5	6.50 +0.30 +0.00	32.00 -0.025 -0.064	40.00 +0.00 -0.20	32.00 +0.00 -0.10	40.00 +0.062 +0.000	6.25
MU-32X40X5.7S	32	40	5.7	6.70 +0.30 +0.00	32.00 -0.025 -0.064	40.00 +0.00 -0.20	32.00 +0.00 -0.10	40.00 +0.062 +0.000	3.99
MU-32X40X6S	32	40	6	7.00 +0.30 +0.00	32.00 -0.025 -0.064	40.00 +0.00 -0.20	32.00 +0.00 -0.10	40.00 +0.062 +0.000	7.18
MU-32X40X8S	32	40	8	9.00 +0.30 +0.00	32.00 -0.025 -0.064	40.00 +0.00 -0.20	32.00 +0.00 -0.10	40.00 +0.062 +0.000	6.25
MU-32X40X10S	32	40	10	11.00 +0.30 +0.00	32.00 -0.025 -0.064	40.00 +0.00 -0.20	32.00 +0.00 -0.10	40.00 +0.062 +0.000	4.10
MU-32X42X5.6S	32	42	5.6	6.60 +0.30 +0.00	32.00 -0.025 -0.064	42.00 +0.00 -0.20	32.00 +0.00 -0.10	42.00 +0.062 +0.000	10.36

METRIC



MU-S SYMMETRICAL U-SEALS

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U-SEALS

PART NUMBER	A NOM. ID	B NOM. OD	C NOM. HT	D GROOVE WIDTH	E ROD DIAMETER	F HOUSING DIAMETER	G GROOVE DIAMETER	H BORE DIAMETER	LIST PRICE
MU-32X42X5.8S	32	42	5.8	6.80 +0.30 +0.00	32.00 -0.025 -0.064	42.00 +0.00 -0.20	32.00 +0.00 -0.10	42.00 +0.062 +0.000	\$ 4.52
MU-32X42X10S	32	42	10	11.00 +0.30 +0.00	32.00 -0.025 -0.064	40.00 +0.00 -0.20	32.00 +0.00 -0.10	40.00 +0.062 +0.000	6.02
MU-32X45X10S	32	45	10	11.00 +0.30 +0.00	32.00 -0.025 -0.064	45.00 +0.00 -0.20	32.00 +0.00 -0.10	45.00 +0.062 +0.000	7.11
MU-32X46X10S	32	46	10	11.00 +0.30 +0.00	32.00 -0.025 -0.064	46.00 +0.10 +0.00	32.00 +0.00 -0.10	46.00 +0.062 +0.000	8.35
MU-32X47X10S	32	47	10	11.00 +0.30 +0.00	32.00 -0.025 -0.064	47.00 +0.00 -0.20	32.00 +0.00 -0.10	47.00 +0.062 +0.000	8.37
MU-35X42X8S	35	42	8	9.00 +0.30 +0.00	35.00 -0.025 -0.064	42.00 +0.00 -0.20	35.00 +0.00 -0.10	42.00 +0.062 +0.000	6.50
MU-35X43X6S	35	43	6	7.00 +0.30 +0.00	35.00 -0.025 -0.064	43.00 +0.00 -0.20	35.00 +0.00 -0.10	43.00 +0.062 +0.000	5.06
MU-35X45X5S	35	45	5	5.70 +0.30 +0.00	35.00 -0.025 -0.064	45.00 +0.00 -0.20	35.00 +0.00 -0.10	45.00 +0.062 +0.000	4.93
MU-35X45X6S	35	45	6	7.00 +0.30 +0.00	35.00 -0.025 -0.064	45.00 +0.00 -0.20	35.00 +0.00 -0.10	45.00 +0.062 +0.000	8.73
MU-35X45X7S	35	45	7	8.00 +0.30 +0.00	35.00 -0.025 -0.064	45.00 +0.00 -0.20	35.00 +0.00 -0.10	45.00 +0.062 +0.000	8.73
MU-35X45X8S	35	45	8	9.00 +0.30 +0.00	35.00 -0.025 -0.064	45.00 +0.00 -0.20	35.00 +0.00 -0.10	45.00 +0.062 +0.000	6.88
MU-35X45X10S	35	45	10	11.00 +0.30 +0.00	35.00 -0.025 -0.064	45.00 +0.00 -0.20	35.00 +0.00 -0.10	45.00 +0.062 +0.000	7.53
MU-35X48X10S	35	48	10	11.00 +0.30 +0.00	35.00 -0.025 -0.064	48.00 +0.00 -0.20	35.00 +0.00 -0.10	48.00 +0.062 +0.000	7.89
MU-35X50X8S	35	50	8	9.00 +0.30 +0.00	35.00 -0.025 -0.064	50.00 +0.00 -0.20	35.00 +0.00 -0.10	50.00 +0.062 +0.000	8.63
MU-35X50X10S	35	50	10	11.00 +0.30 +0.00	35.00 -0.025 -0.064	50.00 +0.10 +0.00	35.00 +0.00 -0.10	50.00 +0.062 +0.000	7.35
MU-35X55X10S	35	55	10	11.00 +0.30 +0.00	35.00 -0.025 -0.064	55.00 +0.10 +0.00	35.00 +0.00 -0.10	55.00 +0.062 +0.000	8.27
MU-35.5X45X6S	35.5	45	6	7.00 +0.30 +0.00	35.50 -0.025 -0.064	45.00 +0.00 -0.20	35.50 +0.00 -0.10	45.00 +0.062 +0.000	10.15
MU-36X46X5.6U	36	46	5.6	6.00 +0.30 +0.00	36.00 -0.025 -0.064	46.00 +0.00 -0.20	36.00 +0.00 -0.10	46.00 +0.062 +0.000	13.35
MU-36X46X7S	36	46	7	8.00 +0.30 +0.00	36.00 -0.025 -0.064	46.00 +0.00 -0.20	36.00 +0.00 -0.10	46.00 +0.062 +0.000	6.02
MU-36X46X10S	36	46	10	11.00 +0.30 +0.00	36.00 -0.025 -0.064	46.00 +0.00 -0.20	36.00 +0.00 -0.10	46.00 +0.062 +0.000	5.96
MU-38X45X5S	38	45	5	5.70 +0.30 +0.00	38.00 -0.025 -0.064	45.00 +0.00 -0.20	38.00 +0.00 -0.10	45.00 +0.062 +0.000	7.35
MU-38X48X6S	38	48	6	7.00 +0.30 +0.00	38.00 -0.025 -0.064	48.00 +0.00 -0.20	38.00 +0.00 -0.10	48.00 +0.062 +0.000	11.80
MU-38X50X9S	38	50	9	10.00 +0.30 +0.00	38.00 -0.025 -0.064	50.00 +0.00 -0.20	38.00 +0.00 -0.10	50.00 +0.062 +0.000	6.35
MU-38X50X10S	38	50	10	11.00 +0.30 +0.00	38.00 -0.025 -0.064	50.00 +0.00 -0.20	38.00 +0.00 -0.10	50.00 +0.062 +0.000	4.05
MU-38X58X10S	38	58	10	11.00 +0.30 +0.00	38.00 -0.025 -0.064	58.00 +0.00 -0.20	38.00 +0.00 -0.10	58.00 +0.074 +0.000	5.81
MU-40X48X8S	40	48	8	9.00 +0.30 +0.00	40.00 -0.025 -0.064	48.00 +0.00 -0.20	40.00 +0.00 -0.10	48.00 +0.062 +0.000	4.05
MU-40X50X5S	40	50	5	5.70 +0.30 +0.00	40.00 -0.025 -0.064	50.00 +0.00 -0.20	40.00 +0.00 -0.10	50.00 +0.062 +0.000	5.13
MU-40X50X5.6S	40	50	5.6	6.00 +0.30 +0.00	40.00 -0.025 -0.064	50.00 +0.00 -0.20	40.00 +0.00 -0.10	50.00 +0.062 +0.000	12.69
MU-40X50X6S	40	50	6	7.00 +0.30 +0.00	40.00 -0.025 -0.064	50.00 +0.00 -0.20	40.00 +0.00 -0.10	50.00 +0.062 +0.000	8.88
MU-40X50X6.5S	40	50	6.5	7.50 +0.30 +0.00	40.00 -0.025 -0.064	50.00 +0.00 -0.20	40.00 +0.00 -0.10	50.00 +0.062 +0.000	6.75
MU-40X50X8S	40	50	8	9.00 +0.30 +0.00	40.00 -0.025 -0.064	50.00 +0.00 -0.20	40.00 +0.00 -0.10	50.00 +0.062 +0.000	6.75



METRIC

MU-S SYMMETRICAL U-SEALS

U-SEALS

PART NUMBER	A NOM. ID	B NOM. OD	C NOM. HT	D GROOVE WIDTH	E ROD DIAMETER	F HOUSING DIAMETER	G GROOVE DIAMETER	H BORE DIAMETER	LIST PRICE
MU-40X50X10S	40	50	10	11.00 +0.30 +0.00	40.00 -0.025 -0.064	50.00 +0.00 -0.20	40.00 +0.00 -0.10	50.00 +0.062 +0.000	\$ 6.88
MU-40X52X6S	40	52	6	7.00 +0.30 +0.00	40.00 -0.025 -0.064	52.00 +0.00 -0.20	40.00 +0.00 -0.10	52.00 +0.074 +0.000	5.41
MU-40X52X9S	40	52	9	10.00 +0.30 +0.00	40.00 -0.025 -0.064	52.00 +0.00 -0.20	40.00 +0.00 -0.10	52.00 +0.074 +0.000	11.24
MU-40X55X10S	40	55	10	11.00 +0.30 +0.00	40.00 -0.025 -0.064	55.00 +0.12 +0.00	40.00 +0.00 -0.10	55.00 +0.074 +0.000	12.52
MU-40X56X8S	40	56	8	9.00 +0.30 +0.00	40.00 -0.025 -0.064	56.00 +0.00 -0.20	40.00 +0.00 -0.10	56.00 +0.074 +0.000	6.54
MU-40X56X10S	40	56	10	11.00 +0.30 +0.00	40.00 -0.025 -0.064	56.00 +0.12 +0.00	40.00 +0.00 -0.10	56.00 +0.074 +0.000	3.59
MU-40X60X10S	40	60	10	11.00 +0.30 +0.00	40.00 -0.025 -0.064	60.00 +0.00 -0.20	40.00 +0.00 -0.10	60.00 +0.074 +0.000	6.02
MU-40X60X12S	40	60	12	13.00 +0.30 +0.00	40.00 -0.025 -0.064	60.00 +0.12 +0.00	40.00 +0.00 -0.10	60.00 +0.074 +0.000	13.01
MU-40X65X12S	40	65	12	13.00 +0.30 +0.00	40.00 -0.025 -0.064	65.00 +0.00 -0.20	40.00 +0.00 -0.10	65.00 +0.074 +0.000	9.35
MU-42X50X8S	42	50	8	9.00 +0.30 +0.00	42.00 -0.025 -0.064	50.00 +0.00 -0.20	42.00 +0.00 -0.10	50.00 +0.062 +0.000	6.75
MU-42X52X6S	42	52	6	7.00 +0.30 +0.00	42.00 -0.025 -0.064	52.00 +0.00 -0.20	42.00 +0.00 -0.10	52.00 +0.074 +0.000	8.43
MU-42X52X9S	42	52	9	10.00 +0.30 +0.00	42.00 -0.025 -0.064	52.00 +0.00 -0.20	42.00 +0.00 -0.10	52.00 +0.074 +0.000	8.43
MU-43X63X10S	43	63	10	11.00 +0.30 +0.00	43.00 -0.025 -0.064	63.00 +0.00 -0.20	43.00 +0.00 -0.10	63.00 +0.074 +0.000	4.96
MU-45X55X6S	45	55	6	7.00 +0.30 +0.00	45.00 -0.025 -0.064	55.00 +0.00 -0.20	45.00 +0.00 -0.10	55.00 +0.074 +0.000	15.17
MU-45X55X6.5S	45	55	6.5	7.50 +0.30 +0.00	45.00 -0.025 -0.064	55.00 +0.00 -0.20	45.00 +0.00 -0.10	55.00 +0.074 +0.000	7.63
MU-45X55X10S	45	55	10	11.00 +0.30 +0.00	45.00 -0.025 -0.064	55.00 +0.00 -0.20	45.00 +0.00 -0.10	55.00 +0.074 +0.000	7.63
MU-45X56X7S	45	56	7	8.00 +0.30 +0.00	45.00 -0.025 -0.064	56.00 +0.00 -0.20	45.00 +0.00 -0.10	56.00 +0.074 +0.000	10.33
MU-45X58X10S	45	58	10	11.00 +0.30 +0.00	45.00 -0.025 -0.064	58.00 +0.00 -0.20	45.00 +0.00 -0.10	58.00 +0.074 +0.000	6.84
MU-45X60X7.5S	45	60	7.5	8.50 +0.30 +0.00	45.00 -0.025 -0.064	60.00 +0.00 -0.20	45.00 +0.00 -0.10	60.00 +0.074 +0.000	9.24
MU-45X60X10S	45	60	10	11.00 +0.30 +0.00	45.00 -0.025 -0.064	60.00 +0.12 +0.00	45.00 +0.00 -0.10	60.00 +0.074 +0.000	8.27
MU-45X63X10S	45	63	10	11.00 +0.30 +0.00	45.00 -0.025 -0.064	63.00 +0.00 -0.20	45.00 +0.00 -0.10	63.00 +0.074 +0.000	7.11
MU-45X65X10S	45	65	10	11.00 +0.30 +0.00	45.00 -0.025 -0.064	65.00 +0.00 -0.20	45.00 +0.00 -0.10	65.00 +0.074 +0.000	9.60
MU-45X65X12S	45	65	12	13.00 +0.30 +0.00	45.00 -0.025 -0.064	65.00 +0.00 -0.20	45.00 +0.00 -0.10	65.00 +0.074 +0.000	9.60
MU-48X58X10S	48	58	10	11.00 +0.30 +0.00	48.00 -0.025 -0.064	58.00 +0.00 -0.20	48.00 +0.00 -0.10	58.00 +0.074 +0.000	8.00
MU-48X63X10S	48	63	10	11.00 +0.30 +0.00	48.00 -0.025 -0.064	63.00 +0.12 +0.00	48.00 +0.00 -0.10	63.00 +0.074 +0.000	15.92
MU-50X60X5S	50	60	5	5.70 +0.30 +0.00	50.00 -0.025 -0.064	60.00 +0.00 -0.20	50.00 +0.00 -0.10	60.00 +0.074 +0.000	8.57
MU-50X60X6S	50	60	6	7.00 +0.30 +0.00	50.00 -0.025 -0.064	60.00 +0.00 -0.20	50.00 +0.00 -0.10	60.00 +0.074 +0.000	9.04
MU-50X60X10S	50	60	10	11.00 +0.30 +0.00	50.00 -0.025 -0.064	60.00 +0.00 -0.20	50.00 +0.00 -0.10	60.00 +0.074 +0.000	7.50
MU-50X62X9S	50	62	9	10.00 +0.30 +0.00	50.00 -0.025 -0.064	62.00 +0.00 -0.20	50.00 +0.00 -0.10	62.00 +0.074 +0.000	7.50
MU-50X63X6S	50	63	6	7.00 +0.30 +0.00	50.00 -0.025 -0.064	63.00 +0.00 -0.20	50.00 +0.00 -0.10	63.00 +0.074 +0.000	7.11
MU-50X63X10S	50	63	10	11.00 +0.30 +0.00	50.00 -0.025 -0.064	63.00 +0.00 -0.20	50.00 +0.00 -0.10	63.00 +0.074 +0.000	7.49

METRIC

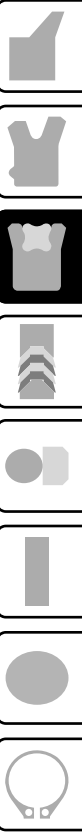


MU-S SYMMETRICAL U-SEALS

301

U-SEALS

PART NUMBER	A NOM. ID	B NOM. OD	C NOM. HT	D GROOVE WIDTH	E ROD DIAMETER	F HOUSING DIAMETER	G GROOVE DIAMETER	H BORE DIAMETER	LIST PRICE
MU-50X65X10S	50	65	10	11.00 +0.30 +0.00	50.00 -0.025 -0.064	65.00 +0.00 -0.20	50.00 +0.00 -0.10	65.00 +0.074 +0.000	\$ 12.48
MU-50X65X11S	50	65	11	12.00 +0.30 +0.00	50.00 -0.025 -0.064	65.00 +0.00 -0.20	50.00 +0.00 -0.10	65.00 +0.074 +0.000	30.96
MU-50X70X10S	50	70	10	11.00 +0.30 +0.00	50.00 -0.025 -0.064	70.00 +0.00 -0.20	50.00 +0.00 -0.10	70.00 +0.074 +0.000	10.13
MU-50X70X12S	50	70	12	13.00 +0.30 +0.00	50.00 -0.025 -0.064	70.00 +0.00 -0.20	50.00 +0.00 -0.10	70.00 +0.074 +0.000	10.13
MU-50X75X12S	50	75	12	13.00 +0.30 +0.00	50.00 -0.025 -0.064	75.00 +0.00 -0.20	50.00 +0.00 -0.10	75.00 +0.074 +0.000	8.03
MU-52X62X12S	52	62	12	13.00 +0.30 +0.00	52.00 -0.030 -0.076	62.00 +0.00 -0.20	52.00 +0.00 -0.12	62.00 +0.074 +0.000	8.11
MU-53X63X5S	53	63	5	5.70 +0.30 +0.00	53.00 -0.030 -0.076	63.00 +0.00 -0.20	53.00 +0.00 -0.12	63.00 +0.074 +0.000	12.65
MU-53X63X6S	53	63	6	7.00 +0.30 +0.00	53.00 -0.030 -0.076	63.00 +0.00 -0.20	53.00 +0.00 -0.12	63.00 +0.074 +0.000	12.00
MU-53X63X6.5S	53	63	6.5	7.50 +0.30 +0.00	53.00 -0.030 -0.076	63.00 +0.00 -0.20	53.00 +0.00 -0.12	63.00 +0.074 +0.000	8.52
MU-53X73X12S	53	73	12	13.00 +0.30 +0.00	53.00 -0.030 -0.076	73.00 +0.00 -0.20	53.00 +0.00 -0.12	73.00 +0.074 +0.000	18.53
MU-55X63X5S	55	63	5	5.70 +0.30 +0.00	55.00 -0.030 -0.076	63.00 +0.00 -0.20	55.00 +0.00 -0.12	63.00 +0.074 +0.000	15.87
MU-55X65X5S	55	65	5	5.70 +0.30 +0.00	55.00 -0.030 -0.076	65.00 +0.00 -0.20	55.00 +0.00 -0.12	65.00 +0.074 +0.000	3.78
MU-55X65X6S	55	65	6	7.00 +0.30 +0.00	55.00 -0.030 -0.076	65.00 +0.00 -0.20	55.00 +0.00 -0.12	65.00 +0.074 +0.000	12.15
MU-55X65X10S	55	65	10	11.00 +0.30 +0.00	55.00 -0.030 -0.076	65.00 +0.00 -0.20	55.00 +0.00 -0.12	65.00 +0.074 +0.000	7.50
MU-55X65X12S	55	65	12	13.00 +0.30 +0.00	55.00 -0.030 -0.076	65.00 +0.00 -0.20	55.00 +0.00 -0.12	65.00 +0.074 +0.000	7.50
MU-55X70X10S	55	70	10	11.00 +0.30 +0.00	55.00 -0.030 -0.076	70.00 +0.00 -0.20	55.00 +0.00 -0.12	70.00 +0.074 +0.000	4.95
MU-55X70X12S	55	70	12	13.00 +0.30 +0.00	55.00 -0.030 -0.076	70.00 +0.00 -0.20	55.00 +0.00 -0.12	70.00 +0.074 +0.000	10.13
MU-55X75X10S	55	75	10	11.00 +0.30 +0.00	55.00 -0.030 -0.076	75.00 +0.00 -0.20	55.00 +0.00 -0.12	75.00 +0.074 +0.000	9.67
MU-55X75X12S	55	75	12	13.00 +0.30 +0.00	55.00 -0.030 -0.076	75.00 +0.12 +0.00	55.00 +0.00 -0.12	75.00 +0.074 +0.000	9.86
MU-56X66X6S	56	66	6	7.00 +0.30 +0.00	56.00 -0.030 -0.076	66.00 +0.00 -0.20	56.00 +0.00 -0.12	66.00 +0.074 +0.000	14.21
MU-56X71X11S	56	71	11	12.00 +0.30 +0.00	56.00 -0.030 -0.076	71.00 +0.00 -0.20	56.00 +0.00 -0.12	71.00 +0.074 +0.000	11.62
MU-58X68X6S	58	68	6	7.00 +0.30 +0.00	58.00 -0.030 -0.076	68.00 +0.00 -0.20	58.00 +0.00 -0.12	68.00 +0.074 +0.000	10.26
MU-60X68X8S	60	68	8	9.00 +0.30 +0.00	60.00 -0.030 -0.076	68.00 +0.00 -0.20	60.00 +0.00 -0.12	68.00 +0.074 +0.000	7.56
MU-60X68X10S	60	68	10	11.00 +0.30 +0.00	60.00 -0.030 -0.076	68.00 +0.00 -0.20	60.00 +0.00 -0.12	68.00 +0.074 +0.000	11.60
MU-60X70X5S	60	70	5	5.70 +0.30 +0.00	60.00 -0.030 -0.076	70.00 +0.00 -0.20	60.00 +0.00 -0.12	70.00 +0.074 +0.000	7.58
MU-60X70X6S	60	70	6	7.00 +0.30 +0.00	60.00 -0.030 -0.076	70.00 +0.00 -0.20	60.00 +0.00 -0.12	70.00 +0.074 +0.000	11.92
MU-60X70X7.5S	60	70	7.5	8.50 +0.30 +0.00	60.00 -0.030 -0.076	70.00 +0.00 -0.20	60.00 +0.00 -0.12	70.00 +0.074 +0.000	7.45
MU-60X70X8S	60	70	8	9.00 +0.30 +0.00	60.00 -0.030 -0.076	70.00 +0.00 -0.20	60.00 +0.00 -0.12	70.00 +0.074 +0.000	9.86
MU-60X70X10S	60	70	10	11.00 +0.30 +0.00	60.00 -0.030 -0.076	70.00 +0.00 -0.20	60.00 +0.00 -0.12	70.00 +0.074 +0.000	9.86
MU-60X70X12S	60	70	12	13.00 +0.30 +0.00	60.00 -0.030 -0.076	70.00 +0.00 -0.20	60.00 +0.01 +0.00	70.00 +0.074 +0.000	9.86
MU-60X75X10S	60	75	10	11.00 +0.30 +0.00	60.00 -0.030 -0.076	75.00 +0.00 -0.20	60.00 +0.01 +0.00	75.00 +0.074 +0.000	8.76



METRIC

MU-S SYMMETRICAL U-SEALS

U-SEALS

PART NUMBER	A NOM. ID	B NOM. OD	C NOM. HT	D GROOVE WIDTH		E ROD DIAMETER		F HOUSING DIAMETER		G GROOVE DIAMETER		H BORE DIAMETER		LIST PRICE
MU-60X75X12S	60	75	12	13.00	+0.30 +0.00	60.00	-0.030 -0.076	75.00	+0.12 +0.00	60.00	+0.00 -0.12	75.00	+0.074 +0.000	\$ 8.76
MU-60X80X10S	60	80	10	11.00	+0.30 +0.00	60.00	-0.030 -0.076	80.00	+0.00 -0.20	60.00	+0.00 -0.12	80.00	+0.074 +0.000	10.00
MU-60X80X12S	60	80	12	13.00	+0.30 +0.00	60.00	-0.030 -0.076	80.00	+0.00 -0.20	60.00	+0.00 -0.12	80.00	+0.074 +0.000	10.00
MU-60X80X18S	60	80	18	19.00	+0.30 +0.00	60.00	-0.030 -0.076	80.00	+0.00 -0.20	60.00	+0.00 -0.12	80.00	+0.074 +0.000	11.24
MU-63X73X6S	63	73	6	7.00	+0.30 +0.00	63.00	-0.030 -0.076	73.00	+0.00 -0.20	63.00	+0.00 -0.12	73.00	+0.074 +0.000	11.92
MU-63X75X10S	63	75	10	11.00	+0.30 +0.00	63.00	-0.030 -0.076	75.00	+0.00 -0.20	63.00	+0.00 -0.12	75.00	+0.074 +0.000	9.13
MU-63X78X10S	63	78	10	11.00	+0.30 +0.00	63.00	-0.030 -0.076	78.00	+0.00 -0.20	63.00	+0.00 -0.12	78.00	+0.074 +0.000	10.24
MU-63X78X11S	63	78	11	12.00	+0.30 +0.00	63.00	-0.030 -0.076	78.00	+0.00 -0.20	63.00	+0.00 -0.12	78.00	+0.074 +0.000	15.95
MU-63X80X9S	63	80	9	10.00	+0.30 +0.00	63.00	-0.030 -0.076	80.00	+0.00 -0.20	63.00	+0.00 -0.12	80.00	+0.074 +0.000	6.85
MU-63X80X10S	63	80	10	11.00	+0.30 +0.00	63.00	-0.030 -0.076	80.00	+0.00 -0.20	63.00	+0.00 -0.12	80.00	+0.074 +0.000	10.31
MU-65X75X6S	65	75	6	7.00	+0.30 +0.00	65.00	-0.030 -0.076	75.00	+0.00 -0.20	65.00	+0.00 -0.12	75.00	+0.074 +0.000	18.98
MU-65X80X11S	65	80	11	12.00	+0.30 +0.00	65.00	-0.030 -0.076	80.00	+0.00 -0.20	65.00	+0.00 -0.12	80.00	+0.074 +0.000	10.00
MU-65X80X12S	65	80	12	13.00	+0.30 +0.00	65.00	-0.030 -0.076	80.00	+0.00 -0.20	65.00	+0.00 -0.12	80.00	+0.074 +0.000	10.00
MU-65X85X10S	65	85	10	11.00	+0.30 +0.00	65.00	-0.030 -0.076	85.00	+0.00 -0.20	65.00	+0.00 -0.12	85.00	+0.087 +0.000	10.00
MU-65X85X12S	65	85	12	13.00	+0.30 +0.00	65.00	-0.030 -0.076	85.00	+0.14 +0.00	65.00	+0.00 -0.12	85.00	+0.087 +0.000	10.00
MU-66X80X10S	66	80	10	11.00	+0.30 +0.00	66.00	-0.030 -0.076	80.00	+0.00 -0.20	66.00	+0.00 -0.12	80.00	+0.074 +0.000	9.51
MU-66X80X13S	66	80	13	14.00	+0.30 +0.00	66.00	-0.030 -0.076	80.00	+0.00 -0.20	66.00	+0.00 -0.12	80.00	+0.074 +0.000	9.51
MU-67X77X6S	67	77	6	7.00	+0.30 +0.00	67.00	-0.030 -0.076	77.00	+0.00 -0.20	67.00	+0.00 -0.12	77.00	+0.074 +0.000	13.27
MU-70X80X5S	70	80	5	5.70	+0.30 +0.00	70.00	-0.030 -0.076	80.00	+0.00 -0.20	70.00	+0.00 -0.12	80.00	+0.074 +0.000	9.13
MU-70X80X6S	70	80	6	7.00	+0.30 +0.00	70.00	-0.030 -0.076	80.00	+0.00 -0.20	70.00	+0.00 -0.12	80.00	+0.074 +0.000	13.88
MU-70X80X8S	70	80	8	9.00	+0.30 +0.00	70.00	-0.030 -0.076	80.00	+0.00 -0.20	70.00	+0.00 -0.12	80.00	+0.074 +0.000	8.76
MU-70X80X10S	70	80	10	11.00	+0.30 +0.00	70.00	-0.030 -0.076	80.00	+0.00 -0.20	70.00	+0.00 -0.12	80.00	+0.074 +0.000	9.13
MU-70X80X12S	70	80	12	13.00	+0.30 +0.00	70.00	-0.030 -0.076	80.00	+0.00 -0.20	70.00	+0.00 -0.12	80.00	+0.074 +0.000	9.13
MU-70X82X9S	70	82	9	10.00	+0.30 +0.00	70.00	-0.030 -0.076	82.00	+0.00 -0.20	70.00	+0.00 -0.12	82.00	+0.087 +0.000	15.27
MU-70X85X8.4S	70	85	8.4	9.50	+0.30 +0.00	70.00	-0.030 -0.076	85.00	+0.00 -0.20	70.00	+0.00 -0.12	85.00	+0.087 +0.000	16.57
MU-70X85X10S	70	85	10	11.00	+0.30 +0.00	70.00	-0.030 -0.076	85.00	+0.00 -0.20	70.00	+0.00 -0.12	85.00	+0.074 +0.000	18.21
MU-70X85X12S	70	85	12	13.00	+0.30 +0.00	70.00	-0.030 -0.076	85.00	+0.00 -0.20	70.00	+0.00 -0.12	85.00	+0.087 +0.000	10.00
MU-70X90X10S	70	90	10	11.00	+0.30 +0.00	70.00	-0.030 -0.076	90.00	+0.14 +0.00	70.00	+0.00 -0.12	90.00	+0.087 +0.000	15.50
MU-70X90X12S	70	90	12	13.00	+0.30 +0.00	70.00	-0.030 -0.076	90.00	+0.00 -0.20	70.00	+0.00 -0.12	90.00	+0.087 +0.000	10.00
MU-70X90X18S	70	90	18	19.00	+0.30 +0.00	70.00	-0.030 -0.076	90.00	+0.00 -0.20	70.00	+0.00 -0.12	90.00	+0.087 +0.000	14.40
MU-70X95X10S	70	95	10	11.00	+0.30 +0.00	70.00	-0.030 -0.076	95.00	+0.00 -0.20	70.00	+0.00 -0.12	95.00	+0.087 +0.000	7.65

METRIC

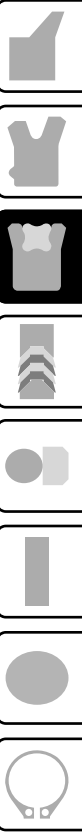


MU-S SYMMETRICAL U-SEALS

303

U-SEALS

PART NUMBER	A NOM. ID	B NOM. OD	C NOM. HT	D GROOVE WIDTH	E ROD DIAMETER	F HOUSING DIAMETER	G GROOVE DIAMETER	H BORE DIAMETER	LIST PRICE
MU-70X95X12S	70	95	12	13.00 +0.30 +0.00	70.00 -0.030 -0.076	95.00 +0.00 -0.20	70.00 +0.00 -0.12	95.00 +0.087 +0.000	\$ 5.13
MU-71X80X6S	71	80	6	7.00 +0.30 +0.00	71.00 -0.030 -0.076	80.00 +0.00 -0.20	71.00 +0.00 -0.12	80.00 +0.074 +0.000	13.90
MU-75X85X6S	75	85	6	7.00 +0.30 +0.00	75.00 -0.030 -0.076	85.00 +0.00 -0.20	75.00 +0.00 -0.12	85.00 +0.087 +0.000	18.81
MU-75X85X10S	75	85	10	11.00 +0.30 +0.00	75.00 -0.030 -0.076	85.00 +0.00 -0.20	75.00 +0.00 -0.12	85.00 +0.087 +0.000	8.32
MU-75X85X12S	75	85	12	13.00 +0.30 +0.00	75.00 -0.030 -0.076	85.00 +0.00 -0.20	75.00 +0.00 -0.12	85.00 +0.087 +0.000	10.51
MU-75X90X7.5S	75	90	7.5	8.50 +0.30 +0.00	75.00 -0.030 -0.076	90.00 +0.00 -0.20	75.00 +0.00 -0.12	90.00 +0.087 +0.000	10.99
MU-75X90X10S	75	90	10	11.00 +0.30 +0.00	75.00 -0.030 -0.076	90.00 +0.00 -0.20	75.00 +0.00 -0.12	90.00 +0.087 +0.000	4.50
MU-75X90X12S	75	90	12	13.00 +0.30 +0.00	75.00 -0.030 -0.076	90.00 +0.00 -0.20	75.00 +0.00 -0.12	90.00 +0.087 +0.000	10.77
MU-75X95X10S	75	95	10	11.00 +0.30 +0.00	75.00 -0.030 -0.076	95.00 +0.00 -0.20	75.00 +0.00 -0.12	95.00 +0.087 +0.000	10.16
MU-75X95X12S	75	95	12	13.00 +0.30 +0.00	75.00 -0.030 -0.076	95.00 +0.14 +0.00	75.00 +0.00 -0.12	95.00 +0.087 +0.000	10.39
MU-80X90X5S	80	90	5	5.70 +0.30 +0.00	80.00 -0.030 -0.076	90.00 +0.00 -0.20	80.00 +0.00 -0.12	90.00 +0.087 +0.000	7.02
MU-80X90X6S	80	90	6	7.00 +0.30 +0.00	80.00 -0.030 -0.076	90.00 +0.00 -0.20	80.00 +0.00 -0.12	90.00 +0.087 +0.000	25.56
MU-80X90X8S	80	90	8	9.00 +0.30 +0.00	80.00 -0.030 -0.076	90.00 +0.00 -0.20	80.00 +0.00 -0.12	90.00 +0.087 +0.000	7.11
MU-80X90X10S	80	90	10	11.00 +0.30 +0.00	80.00 -0.030 -0.076	90.00 +0.00 -0.20	80.00 +0.00 -0.12	90.00 +0.087 +0.000	10.00
MU-80X90X12S	80	90	12	13.00 +0.30 +0.00	80.00 -0.030 -0.076	90.00 +0.00 -0.20	80.00 +0.00 -0.12	90.00 +0.087 +0.000	27.46
MU-80X95X8.4S	80	95	8.4	9.50 +0.30 +0.00	80.00 -0.030 -0.076	95.00 +0.00 -0.20	80.00 +0.00 -0.12	95.00 +0.087 +0.000	23.13
MU-80X95X9S	80	95	9	10.00 +0.30 +0.00	80.00 -0.030 -0.076	95.00 +0.00 -0.20	80.00 +0.00 -0.12	95.00 +0.087 +0.000	5.67
MU-80X95X10S	80	95	10	11.00 +0.30 +0.00	80.00 -0.030 -0.076	95.00 +0.00 -0.20	80.00 +0.00 -0.12	95.00 +0.087 +0.000	6.94
MU-80X95X12S	80	95	12	13.00 +0.30 +0.00	80.00 -0.030 -0.076	95.00 +0.00 -0.20	80.00 +0.00 -0.12	95.00 +0.087 +0.000	9.86
MU-80X100X10S	80	100	10	11.00 +0.30 +0.00	80.00 -0.030 -0.076	100.00 +0.00 -0.20	80.00 +0.00 -0.12	100.00 +0.087 +0.000	10.24
MU-80X100X12S	80	100	12	13.00 +0.30 +0.00	80.00 -0.030 -0.076	100.00 +0.14 +0.00	80.00 +0.00 -0.12	100.00 +0.087 +0.000	10.24
MU-80X100X13.5S	80	100	13.5	14.50 +0.30 +0.00	80.00 -0.030 -0.076	100.00 +0.00 -0.20	80.00 +0.00 -0.12	100.00 +0.087 +0.000	15.17
MU-84X104X12S	84	104	12	13.00 +0.30 +0.00	84.00 -0.036 -0.090	104.00 +0.00 -0.20	84.00 +0.00 -0.14	104.00 +0.087 +0.000	28.25
MU-85X95X8.5S	85	95	8.5	9.50 +0.30 +0.00	85.00 -0.036 -0.090	95.00 +0.00 -0.20	85.00 +0.00 -0.14	95.00 +0.087 +0.000	7.27
MU-85X95X12S	85	95	12	13.00 +0.30 +0.00	85.00 -0.036 -0.090	95.00 +0.00 -0.20	85.00 +0.00 -0.14	95.00 +0.087 +0.000	10.39
MU-85X100X9S	85	100	9	10.00 +0.30 +0.00	85.00 -0.036 -0.090	100.00 +0.00 -0.20	85.00 +0.00 -0.14	100.00 +0.087 +0.000	30.89
MU-85X100X12S	85	100	12	13.00 +0.30 +0.00	85.00 -0.036 -0.090	100.00 +0.00 -0.20	85.00 +0.00 -0.14	100.00 +0.087 +0.000	12.65
MU-85X105X10S	85	105	10	11.00 +0.30 +0.00	85.00 -0.036 -0.090	105.00 +0.00 -0.20	85.00 +0.00 -0.14	105.00 +0.087 +0.000	20.03
MU-85X105X12S	85	105	12	13.00 +0.30 +0.00	85.00 -0.036 -0.090	105.00 +0.14 +0.00	85.00 +0.00 -0.14	105.00 +0.087 +0.000	10.99
MU-90X100X7S	90	100	7	8.00 +0.30 +0.00	90.00 -0.036 -0.090	100.00 +0.00 -0.20	90.00 +0.00 -0.14	100.00 +0.087 +0.000	9.86
MU-90X100X8S	90	100	8	9.00 +0.30 +0.00	90.00 -0.036 -0.090	100.00 +0.00 -0.20	90.00 +0.00 -0.14	100.00 +0.087 +0.000	9.86



METRIC

MU-S SYMMETRICAL U-SEALS

U-SEALS

PART NUMBER	A NOM. ID	B NOM. OD	C NOM. HT	D GROOVE WIDTH	E ROD DIAMETER	F HOUSING DIAMETER	G GROOVE DIAMETER	H BORE DIAMETER	LIST PRICE
MU-90X100X12S	90	100	12	13.00 +0.30 +0.00	90.00 -0.036 -0.090	100.00 +0.00 -0.20	90.00 +0.00 -0.14	100.00 +0.087 +0.000	\$ 29.70
MU-90X105X9S	90	105	9	10.00 +0.30 +0.00	90.00 -0.036 -0.090	105.00 +0.00 -0.20	90.00 +0.00 -0.14	105.00 +0.087 +0.000	25.28
MU-90X105X12S	90	105	12	13.00 +0.30 +0.00	90.00 -0.036 -0.090	105.00 +0.00 -0.20	90.00 +0.00 -0.14	105.00 +0.087 +0.000	13.75
MU-90X110X10S	90	110	10	11.00 +0.30 +0.00	90.00 -0.036 -0.090	110.00 +0.00 -0.20	90.00 +0.00 -0.14	110.00 +0.087 +0.000	14.51
MU-90X110X12S	90	110	12	13.00 +0.30 +0.00	90.00 -0.036 -0.090	110.00 +0.14 +0.00	90.00 +0.00 -0.14	110.00 +0.087 +0.000	11.49
MU-90X115X15S	90	115	15	16.00 +0.30 +0.00	90.00 -0.036 -0.090	115.00 +0.00 -0.20	90.00 +0.00 -0.14	115.00 +0.087 +0.000	9.93
MU-95X110X9S	95	110	9	10.00 +0.30 +0.00	95.00 -0.036 -0.090	110.00 +0.00 -0.20	95.00 +0.00 -0.14	110.00 +0.087 +0.000	31.95
MU-95X110X10S	95	110	10	11.00 +0.30 +0.00	95.00 +0.036 -0.090	110.00 +0.00 -0.20	95.00 +0.00 -0.14	110.00 +0.087 +0.000	7.90
MU-95X110X12S	95	110	12	13.00 +0.30 +0.00	95.00 +0.036 -0.090	110.00 +0.00 -0.20	95.00 +0.00 -0.14	110.00 +0.087 +0.000	7.62
MU-95X115X12S	95	115	12	13.00 +0.30 +0.00	95.00 +0.036 -0.090	115.00 +0.14 +0.00	95.00 +0.00 -0.14	115.00 +0.087 +0.000	13.00
MU-98X112X9S	98	112	9	10.00 +0.30 +0.00	98.00 +0.036 -0.090	112.00 +0.14 +0.00	98.00 +0.00 -0.14	112.00 +0.087 +0.000	32.54
MU-100X110X5S	100	110	5	5.70 +0.30 +0.00	100.00 +0.036 -0.090	110.00 +0.00 -0.20	100.00 +0.00 -0.14	110.00 +0.087 +0.000	7.97
MU-100X110X8S	100	110	8	9.00 +0.30 +0.00	100.00 +0.036 -0.090	110.00 +0.00 -0.20	100.00 +0.00 -0.14	110.00 +0.087 +0.000	9.49
MU-100X115X9S	100	115	9	10.00 +0.30 +0.00	100.00 +0.036 -0.090	115.00 +0.00 -0.20	100.00 +0.00 -0.14	115.00 +0.087 +0.000	19.25
MU-100X115X12S	100	115	12	13.00 +0.30 +0.00	100.00 +0.036 -0.090	115.00 +0.00 -0.20	100.00 +0.00 -0.14	115.00 +0.087 +0.000	11.88
MU-100X120X10S	100	120	10	11.00 +0.30 +0.00	100.00 +0.036 -0.090	120.00 +0.00 -0.20	100.00 +0.00 -0.14	120.00 +0.087 +0.000	40.02
MU-100X120X12S	100	120	12	13.00 +0.30 +0.00	100.00 +0.036 -0.090	120.00 +0.14 +0.00	100.00 +0.00 -0.14	120.00 +0.087 +0.000	19.91
MU-100X120X13.5S	100	120	13.5	14.50 +0.30 +0.00	100.00 +0.036 -0.090	120.00 +0.00 -0.20	100.00 +0.00 -0.14	120.00 +0.087 +0.000	13.72
MU-100X120X15S	100	120	15	16.00 +0.30 +0.00	100.00 +0.036 -0.090	120.00 +0.00 -0.20	100.00 +0.00 -0.14	120.00 +0.087 +0.000	10.58
MU-100X125X15S	100	125	15	16.00 +0.30 +0.00	100.00 +0.036 -0.090	125.00 +0.16 +0.00	100.00 +0.00 -0.14	125.00 +0.10 +0.00	14.13
MU-105X120X8S	105	120	8	9.00 +0.30 +0.00	105.00 +0.036 -0.090	120.00 +0.00 -0.20	105.00 +0.00 -0.14	120.00 +0.087 +0.000	10.77
MU-105X120X15S	105	120	15	16.00 +0.30 +0.00	105.00 +0.036 -0.090	120.00 +0.00 -0.20	105.00 +0.00 -0.14	120.00 +0.087 +0.000	13.25
MU-105X125X11.4S	105	125	11.4	12.50 +0.30 +0.00	105.00 +0.036 -0.090	125.00 +0.00 -0.20	105.00 +0.00 -0.14	125.00 +0.10 +0.00	23.80
MU-105X125X12S	105	125	12	13.00 +0.30 +0.00	105.00 +0.036 -0.090	125.00 +0.00 -0.20	105.00 +0.00 -0.14	125.00 +0.10 +0.00	10.17
MU-105X125X15S	105	125	15	16.00 +0.30 +0.00	105.00 +0.036 -0.090	125.00 +0.16 +0.00	105.00 +0.00 -0.14	125.00 +0.10 +0.00	13.13
MU-105X125X16S	105	125	16	17.00 +0.30 +0.00	105.00 +0.036 -0.090	125.00 +0.00 -0.20	105.00 +0.00 -0.14	125.00 +0.10 +0.00	12.17
MU-105X130X12S	105	130	12	13.00 +0.30 +0.00	105.00 +0.036 -0.090	130.00 +0.00 -0.20	105.00 +0.00 -0.14	130.00 +0.10 +0.00	26.12
MU-106X120X8.5S	106	120	8.5	9.50 +0.30 +0.00	106.00 +0.036 -0.090	120.00 +0.00 -0.20	106.00 +0.00 -0.14	120.00 +0.087 +0.000	9.72
MU-110X125X12S	110	125	12	13.00 +0.30 +0.00	110.00 +0.036 -0.090	125.00 +0.00 -0.20	110.00 +0.00 -0.14	125.00 +0.10 +0.00	13.75
MU-110X125X15S	110	125	15	16.00 +0.30 +0.00	110.00 +0.036 -0.090	125.00 +0.00 -0.20	110.00 +0.00 -0.14	125.00 +0.087 +0.000	24.43
MU-110X130X10S	110	130	10	11.00 +0.30 +0.00	110.00 +0.036 -0.090	130.00 +0.00 -0.20	110.00 +0.00 -0.14	130.00 +0.10 +0.00	9.57

METRIC

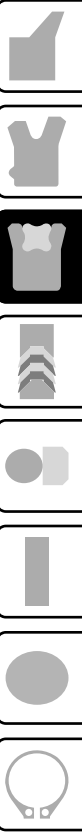


MU-S SYMMETRICAL U-SEALS

305

U-SEALS

PART NUMBER	A NOM. ID	B NOM. OD	C NOM. HT	D GROOVE WIDTH	E ROD DIAMETER	F HOUSING DIAMETER	G GROOVE DIAMETER	H BORE DIAMETER	LIST PRICE
MU-110X130X15S	110	130	15	16.00 +0.30 +0.00	110.00 +0.036 -0.090	130.00 +0.00 -0.20	110.00 +0.00 -0.14	130.00 +0.087 +0.000	\$ 21.87
MU-112X125X9S	112	125	9	10.00 +0.30 +0.00	112.00 +0.036 -0.090	125.00 +0.00 -0.20	112.00 +0.00 -0.14	125.00 +0.087 +0.000	27.16
MU-115X125X12S	115	125	12	13.00 +0.30 +0.00	115.00 +0.036 -0.090	125.00 +0.00 -0.20	115.00 +0.00 -0.14	125.00 +0.087 +0.000	9.49
MU-115X135X15S	115	135	15	16.00 +0.30 +0.00	115.00 +0.036 -0.090	135.00 +0.00 -0.20	115.00 +0.00 -0.14	135.00 +0.087 +0.000	44.66
MU-120X130X14S	120	130	14	15.00 +0.30 +0.00	120.00 +0.036 -0.090	130.00 +0.00 -0.20	120.00 +0.00 -0.14	130.00 +0.087 +0.000	12.17
MU-120X140X10S	120	140	10	11.00 +0.30 +0.00	120.00 +0.036 -0.090	140.00 +0.00 -0.20	120.00 +0.00 -0.14	140.00 +0.087 +0.000	9.45
MU-120X140X12S	120	140	12	13.00 +0.30 +0.00	120.00 +0.036 -0.090	140.00 +0.00 -0.20	120.00 +0.00 -0.14	140.00 +0.087 +0.000	17.24
MU-120X140X15S	120	140	15	16.00 +0.30 +0.00	120.00 +0.036 -0.090	140.00 +0.00 -0.20	120.00 +0.00 -0.14	140.00 +0.087 +0.000	17.90
MU-125X140X11S	125	140	11	12.00 +0.30 +0.00	125.00 -0.043 -0.106	140.00 +0.00 -0.20	125.00 +0.00 -0.16	140.00 +0.10 +0.00	15.14
MU-125X140X12S	125	140	12	13.00 +0.30 +0.00	125.00 -0.043 -0.106	140.00 +0.00 -0.20	125.00 +0.00 -0.16	140.00 +0.10 +0.00	12.52
MU-125X145X15S	125	145	15	17.00 +0.30 +0.00	125.00 -0.043 -0.106	145.00 +0.16 +0.00	125.00 +0.00 -0.16	145.00 +0.10 +0.00	28.29
MU-125X150X15S	125	150	15	16.00 +0.30 +0.00	125.00 -0.043 -0.106	150.00 +0.16 +0.00	125.00 +0.00 -0.16	150.00 +0.10 +0.00	26.37
MU-135X150X15S	135	150	15	16.00 +0.30 +0.00	135.00 -0.043 -0.106	150.00 +0.00 -0.20	135.00 +0.00 -0.16	150.00 +0.10 +0.00	13.49
MU-136X150X9S	136	150	9	10.00 +0.30 +0.00	136.00 -0.043 -0.106	150.00 +0.16 +0.00	136.00 +0.00 -0.16	150.00 +0.10 +0.00	27.03
MU-140X155X8.9S	140	155	8.9	10.00 +0.30 +0.00	140.00 -0.043 -0.106	155.00 +0.00 -0.20	140.00 +0.00 -0.16	155.00 +0.10 +0.00	34.17
MU-140X155X9S	140	155	9	10.00 +0.30 +0.00	140.00 -0.043 -0.106	155.00 +0.00 -0.20	140.00 +0.00 -0.16	155.00 +0.10 +0.00	14.38
MU-140X160X12U	140	160	12	13.00 +0.30 +0.00	140.00 -0.043 -0.106	160.00 +0.16 +0.00	140.00 +0.00 -0.16	160.00 +0.10 +0.00	32.85
MU-140X160X15S	140	160	15	17.00 +0.30 +0.00	140.00 -0.043 -0.106	160.00 +0.16 +0.00	140.00 +0.00 -0.16	160.00 +0.10 +0.00	29.48
MU-140X165X15S	140	165	15	17.00 +0.30 +0.00	140.00 -0.043 -0.106	165.00 +0.16 +0.00	140.00 +0.00 -0.16	165.00 +0.10 +0.00	28.51
MU-145X160X9S	145	160	9	10.00 +0.30 +0.00	145.00 -0.043 -0.106	160.00 +0.00 -0.20	145.00 +0.00 -0.16	160.00 +0.10 +0.00	35.53
MU-145X165X15S	145	165	15	17.00 +0.30 +0.00	145.00 -0.043 -0.106	165.00 +0.16 +0.00	145.00 +0.00 -0.16	165.00 +0.10 +0.00	43.61
MU-150X165X8.9S	150	165	8.9	10.00 +0.30 +0.00	150.00 -0.043 -0.106	165.00 +0.00 -0.20	150.00 +0.00 -0.16	165.00 +0.10 +0.00	41.72
MU-150X170X15S	150	170	15	17.00 +0.30 +0.00	150.00 -0.043 -0.106	170.00 +0.16 +0.00	150.00 +0.00 -0.16	170.00 +0.10 +0.00	43.61
MU-155X180X15S	155	180	15	17.00 +0.30 +0.00	155.00 -0.043 -0.106	180.00 +0.16 +0.00	155.00 +0.00 -0.16	180.00 +0.10 +0.00	48.63
MU-160X175X9S	160	175	9	10.00 +0.30 +0.00	160.00 -0.043 -0.106	175.00 +0.00 -0.20	160.00 +0.00 -0.16	175.00 +0.10 +0.00	52.15
MU-160X180X14.5S	160	180	14.5	16.00 +0.30 +0.00	160.00 -0.043 -0.106	180.00 +0.00 -0.20	160.00 +0.00 -0.16	180.00 +0.10 +0.00	54.66
MU-160X185X15S	160	185	15	17.00 +0.30 +0.00	160.00 -0.043 -0.106	185.00 +0.185 +0.000	160.00 +0.00 -0.16	185.00 +0.115 +0.000	53.46
MU-160X190X22S	160	190	22	23.00 +0.30 +0.00	160.00 -0.043 -0.106	190.00 +0.00 -0.20	160.00 +0.00 -0.16	190.00 +0.115 +0.000	41.14
MU-165X180X9S	165	180	9	10.00 +0.30 +0.00	165.00 -0.043 -0.106	180.00 +0.00 -0.20	165.00 +0.00 -0.16	180.00 +0.10 +0.00	38.09
MU-165X180X9.5S	165	180	9.5	10.50 +0.30 +0.00	165.00 -0.043 -0.106	180.00 +0.00 -0.20	165.00 +0.00 -0.16	180.00 +0.10 +0.00	20.67
MU-165X190X15S	165	190	15	17.00 +0.30 +0.00	165.00 -0.043 -0.106	190.00 +0.00 -0.20	165.00 +0.00 -0.16	190.00 +0.115 +0.000	46.31



METRIC

MU-S SYMMETRICAL U-SEALS

U-SEALS

PART NUMBER	A NOM. ID	B NOM. OD	C NOM. HT	D GROOVE WIDTH	E ROD DIAMETER	F HOUSING DIAMETER	G GROOVE DIAMETER	H BORE DIAMETER	LIST PRICE
MU-170X190X15S	170	190	15	16.00 +0.30 +0.00	170.00 -0.043 -0.106	190.00 +0.00 -0.20	170.00 +0.00 -0.16	190.00 +0.115 +0.000	\$ 23.20
MU-170X195X15S	170	195	15	17.00 +0.30 +0.00	170.00 -0.043 -0.106	195.00 +0.185 +0.000	170.00 +0.00 -0.16	195.00 +0.115 +0.000	48.63
MU-170X200X18S	170	200	18	19.00 +0.30 +0.00	170.00 -0.043 -0.106	200.00 +0.00 -0.20	170.00 +0.00 -0.16	200.00 +0.115 +0.000	50.24
MU-170X200X22S	170	200	22	23.00 +0.30 +0.00	170.00 -0.043 -0.106	200.00 +0.00 -0.20	170.00 +0.00 -0.16	200.00 +0.115 +0.000	36.62
MU-175X200X15S	175	200	15	17.00 +0.30 +0.00	175.00 -0.043 -0.106	200.00 +0.185 +0.000	175.00 +0.00 -0.16	200.00 +0.115 +0.000	46.85
MU-180X200X15S	180	200	15	17.00 +0.30 +0.00	180.00 -0.043 -0.106	200.00 +0.185 +0.000	180.00 +0.00 -0.16	200.00 +0.115 +0.000	51.91
MU-180X205X15S	180	205	15	17.00 +0.30 +0.00	180.00 -0.043 -0.106	205.00 +0.185 +0.000	180.00 +0.00 -0.16	205.00 +0.115 +0.000	53.05
MU-180X210X15S	180	210	15	16.00 +0.30 +0.00	180.00 -0.043 -0.106	210.00 +0.00 -0.20	180.00 +0.00 -0.16	210.00 +0.115 +0.000	42.88
MU-180X210X22S	180	210	22	23.00 +0.30 +0.00	180.00 -0.043 -0.106	210.00 +0.00 -0.20	180.00 +0.00 -0.16	210.00 +0.115 +0.000	36.09
MU-190X210X12S	190	210	12	13.00 +0.30 +0.00	190.00 -0.050 -0.122	210.00 +0.00 -0.20	190.00 +0.000 -0.185	210.00 +0.115 +0.000	47.71
MU-190X210X15S	190	210	15	16.00 +0.30 +0.00	190.00 -0.050 -0.122	210.00 +0.00 -0.20	190.00 +0.000 -0.185	210.00 +0.115 +0.000	26.97
MU-190X215X15S	190	215	15	17.00 +0.30 +0.00	190.00 -0.050 -0.122	215.00 +0.185 +0.000	190.00 +0.000 -0.185	215.00 +0.115 +0.000	48.64
MU-200X220X12S	200	220	12	13.00 +0.30 +0.00	200.00 -0.050 -0.122	220.00 +0.00 -0.20	200.00 +0.000 -0.185	220.00 +0.115 +0.000	51.59
MU-200X225X15S	200	225	15	17.00 +0.30 +0.00	200.00 -0.050 -0.122	225.00 +0.00 -0.20	200.00 +0.000 -0.185	225.00 +0.115 +0.000	54.19
MU-210X235X18S	210	235	18	20.00 +0.30 +0.00	210.00 -0.050 -0.122	235.00 +0.185 +0.000	210.00 +0.000 -0.185	235.00 +0.115 +0.000	56.39
MU-220X240X12S	220	240	12	13.00 +0.30 +0.00	220.00 -0.050 -0.122	240.00 +0.00 -0.20	220.00 +0.000 -0.185	240.00 +0.115 +0.000	57.06
MU-230X250X12S	230	250	12	13.00 +0.30 +0.00	230.00 -0.050 -0.122	250.00 +0.00 -0.20	230.00 +0.000 -0.185	250.00 +0.115 +0.000	56.72
MU-230X250X15S	230	250	15	16.00 +0.30 +0.00	230.00 -0.050 -0.122	250.00 +0.00 -0.20	230.00 +0.000 -0.185	250.00 +0.115 +0.000	40.46
MU-250X280X18S	250	280	18	19.00 +0.30 +0.00	250.00 -0.050 -0.122	280.00 +0.00 -0.20	250.00 +0.000 -0.185	280.00 +0.115 +0.000	57.94
MU-260X290X18S	260	290	18	20.00 +0.30 +0.00	260.00 -0.050 -0.137	290.00 +0.21 +0.00	260.00 +0.00 -0.21	290.00 +0.13 +0.00	50.17
MU-270X290X17S	270	290	17	18.00 +0.30 +0.00	270.00 -0.056 -0.137	290.00 +0.00 -0.20	270.00 +0.00 -0.21	290.00 +0.13 +0.00	56.64
MU-280X300X15S	280	300	15	16.00 +0.30 +0.00	280.00 -0.056 -0.137	300.00 +0.00 -0.20	280.00 +0.00 -0.21	300.00 +0.13 +0.00	67.60

Need a back-up for your u-seal?
See pages 283-285

METRIC

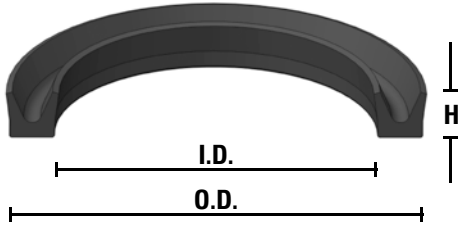


MNU SYMMETRICAL U-SEALS

307

U-SEALS

MNU



MATERIAL	NITRILE 90
TEMPERATURE RANGE	-13° TO +212° F
PRESSURE RANGE	0 TO 2,000 PSI
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

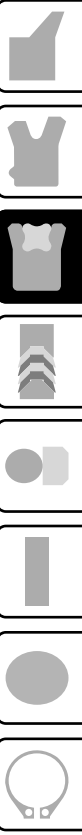
Molded from 90A nitrile, this seal provides high sealability and temperature resistance to 250° F.

PART NUMBER	LIST PRICE
MNU-6.3X16.3X8	\$ 3.77
MNU-7.1X17.1X8	3.77
MNU-8X18X8	3.77
MNU-9X19X8	4.04
MNU-10X13.6X2.3	5.54
MNU-10X16X4.5	5.72
MNU-10X20X8	4.04
MNU-11.2X21.2X8	4.34
MNU-12.5X22.5X8	3.18
MNU-14X24X8	4.80
MNU-15X25X8	4.80
MNU-16X24X5	2.61
MNU-16X26X8	5.08
MNU-18X26X5	2.61
MNU-18X28X8	5.36
MNU-20X28X5	2.61
MNU-20X30X8	5.91
MNU-22X30X5	2.66
MNU-22.4X30X5	2.61
MNU-22.4X32.4X8	6.69
MNU-23.5X31.5X5	2.61
MNU-25X33X5	2.61
MNU-25X35X8	7.25
MNU-28X35.5X5	2.61
MNU-28X43X10	8.57
MNU-30X40X6	2.70
MNU-30X45X10	8.84

PART NUMBER	LIST PRICE
MNU-31.5X41.5X6	\$ 2.70
MNU-31.5X44.5X10	9.12
MNU-35X45X6	2.97
MNU-35X50X10	9.62
MNU-35.5X45X6	2.97
MNU-35.5X50.5X10	10.80
MNU-36X46X6	19.24
MNU-40X50X6	3.13
MNU-40X53X9	11.28
MNU-40X55X10	11.91
MNU-40X60X12	12.52
MNU-45X55X6	3.49
MNU-45X56X7	3.49
MNU-45X60X10	12.19
MNU-48X63X10	12.33
MNU-50X60X6	3.70
MNU-50X60X8	4.53
MNU-50X65X10	12.86
MNU-53X63X6	3.91
MNU-53X73X12	13.37
MNU-55X65X6	3.91
MNU-55X75X12	13.93
MNU-56X66X6	3.91
MNU-60X70X6	4.20
MNU-60X71X7	4.20
MNU-60X80X12	16.08
MNU-63X73X6	4.39

PART NUMBER	LIST PRICE
MNU-63X83X12	\$ 17.14
MNU-64X80X12	43.18
MNU-65X75X6	4.39
MNU-65X85X10	4.86
MNU-65X85X12	18.25
MNU-67X77X6	4.39
MNU-67X87X12	19.28
MNU-70X80X6	4.76
MNU-70X90X12	19.85
MNU-71X80X6	4.76
MNU-71X91X12	20.34
MNU-75X85X6	5.21
MNU-75X95X12	23.07
MNU-80X90X6	5.54
MNU-80X100X12	26.80
MNU-85X100X9	6.23
MNU-85X105X12	30.01
MNU-90X100X6	7.01
MNU-90X105X9	6.85
MNU-90X110X12	32.31
MNU-95X110X9	7.15
MNU-95X115X12	33.97
MNU-98X112X9	7.80
MNU-100X115X9	7.80
MNU-100X120X12	34.83
MNU-105X120X9	65.68
MNU-105X125X15	36.14

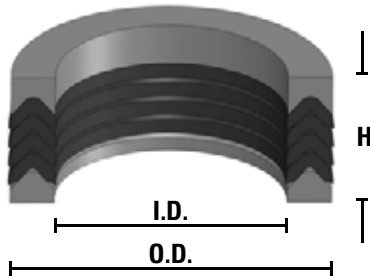
PART NUMBER	LIST PRICE
MNU-106X120X8.5	\$ 22.33
MNU-106X126X15	36.97
MNU-110X130X15	39.62
MNU-110X135X12	9.51
MNU-112X125X9	8.84
MNU-112X132X15	41.78
MNU-115X130X9	36.39
MNU-118X138X15	47.13
MNU-120X140X10	10.03
MNU-120X140X15	48.18
MNU-125X140X9	10.89
MNU-125X145X15	57.17
MNU-125X150X15	14.30
MNU-130X150X15	61.62
MNU-136X150X9	12.54
MNU-140X160X15	70.19
MNU-145X160X9	33.98
MNU-150X165X9	14.36
MNU-150X170X15	81.40
MNU-160X175X9	16.54
MNU-165X180X9	17.41
MNU-180X200X12	19.65
MNU-200X220X12	23.21
MNU-204X224X12	24.99
MNU-230X250X12	28.20



METRIC

[SEAL INFORMATION]

MVS



Construction Code
Example: 1-5-1

1 - 1 Top Adaptor
 5 - 5 V-Rings
 1 - 1 Bottom Adaptor

**MATERIAL**

FABRIC / RUBBER V RINGS
 FABRIC / RUBBER OR
 ACETAL ADAPTORS

TEMPERATURE RANGE

-65° TO +220° F

PRESSURE RANGE

0 TO 5,000 PSI

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

PART NUMBER	CODE	LIST PRICE	PART NUMBER	CODE	LIST PRICE	PART NUMBER	CODE	LIST PRICE
MVS-10X20X11	1-3-1	\$ 41.01	MVS-45X60X22.2	1-3-1	\$ 42.48	MVS-70X85X22.5	1-5-1	\$105.98
MVS-20X30X18.5	1-5-1	15.65	MVS-45X60X22.5	1-5-1	81.39	MVS-70X90X30	1-3-1	65.94
MVS-20X31.5X17.5	1-3-1	52.59	MVS-45X61X29	1-3-1	37.98	MVS-70X90X35	1-3-1	36.57
MVS-20X32X20	1-2-1	17.99	MVS-45X65X28	1-3-1	51.60	MVS-70X90X40	1-5-1	70.80
MVS-20X32X22.5	1-5-1	18.23	MVS-48X63X12.5	1-1-1	16.35	MVS-75X90X22.5	1-5-1	47.98
MVS-22X32X18.5	1-3-1	22.21	MVS-50X65X16	0-3-1	20.67	MVS-75X95X30DR	1-2-1	61.16
MVS-22X34X22.5	1-5-1	23.14	MVS-50X65X22.5	1-3-1	60.66	MVS-75X95X40	1-5-1	73.96
MVS-25X35X19.6	1-4-1	29.21	MVS-50X65X24.6	1-3-1	49.64	MVS-80X95X22.5	1-3-1	65.54
MVS-25X37X22.5	1-5-1	18.70	MVS-50X70X21.9	1-3-1	51.57	MVS-80X100X20.5	1-1-1	30.95
MVS-25X40X11	1-1-1	18.46	MVS-50X70X30	1-3-1	57.60	MVS-80X100X30	1-3-1	72.71
MVS-28X40X22.5	1-5-1	15.65	MVS-50X70X35	1-3-1	93.82	MVS-80X100X40	1-5-1	71.69
MVS-30X40X21	1-3-1	46.26	MVS-55X70X22.5	1-3-1	93.93	MVS-80X105X27.4	1-3-1	71.83
MVS-30X42X22.5	1-5-1	28.17	MVS-55X70X26.5	1-3-1	51.57	MVS-85X100X22.5	1-3-1	71.83
MVS-30X45X22.5	1-3-1	31.19	MVS-55X75X26	1-3-1	47.45	MVS-85X100X25	1-3-1	21.22
MVS-32X44X22.5	1-5-1	21.61	MVS-56X71X16	0-3-1	21.89	MVS-85X105X27.5	1-3-1	46.03
MVS-35X45X17.5	1-3-1	14.84	MVS-56X71X22.5	1-3-1	51.57	MVS-85X105X40	1-5-1	74.82
MVS-35X47X22.5	1-5-1	21.61	MVS-56X76X33	1-3-1	92.66	MVS-90X105X22.5	1-3-1	71.83
MVS-35X50X11	1-1-1	25.79	MVS-60X75X22.5	1-5-1	55.41	MVS-90X110X20.5	1-1-1	38.21
MVS-35X50X22.5	1-3-1	30.72	MVS-60X80X14.6	1-1-1	42.54	MVS-90X110X30	1-2-1	80.37
MVS-36X48X22.5	1-5-1	23.61	MVS-60X80X29.5DR	1-2-1	44.16	MVS-90X110X40	1-5-1	100.72
MVS-36X51X22.5	1-5-1	26.40	MVS-60X80X30	1-3-1	57.59	MVS-90X115X27.4	1-3-1	71.83
MVS-40X50X17.3	1-3-1	42.48	MVS-60X80X32	1-3-1	57.59	MVS-95X110X24	1-3-1	87.74
MVS-40X50X20	1-5-1	35.10	MVS-60X80X37	1-5-1	50.47	MVS-95X120X33	1-3-1	87.74
MVS-40X52X22.5	1-5-1	29.67	MVS-63X78X16	0-3-1	34.59	MVS-100X115X30	1-3-1	71.83
MVS-40X55X22.6	1-3-1	42.48	MVS-63X78X22.5	1-5-1	47.91	MVS-100X120X21.5EI	1-1-1	35.17
MVS-40X55X24	1-5-1	102.92	MVS-63X83X21.9	1-3-1	52.33	MVS-100X120X30DR	1-3-1	122.33
MVS-40X56X17.6	1-3-1	42.48	MVS-63X83X30DR	1-2-1	70.00	MVS-100X120X40	1-5-1	96.63
MVS-40X60X30	1-3-1	44.86	MVS-63X83X37	1-5-1	73.14	MVS-100X125X25.8	1-1-1	52.81
MVS-42X54X22.5	1-5-1	21.16	MVS-65X80X22.5	1-3-1	53.21	MVS-105X120X25	1-3-1	100.95

PART NUMBER	CODE	LIST PRICE
MVS-110X125X30	1-3-1	\$ 60.69
MVS-110X130X30DR	1-3-1	90.90
MVS-115X140X25	1-1-1	66.49
MVS-120X145X46	1-5-1	114.34
MVS-125X140X34	1-5-1	119.41
MVS-125X145X29	1-3-1	155.75
MVS-125X150X46	1-5-1	139.40

PART NUMBER	CODE	LIST PRICE
MVS-130X155X33	1-3-1	\$103.64
MVS-130X155X46	1-5-1	161.23
MVS-140X155X34	1-5-1	160.18
MVS-140X165X46	1-5-1	181.77
MVS-150X170X30	1-3-1	105.64
MVS-150X180X32.5	1-1-1	110.31
MVS-150X180X60	1-5-1	287.79

PART NUMBER	CODE	LIST PRICE
MVS-160X190X60	1-5-1	\$318.04
MVS-170X200X32.5	1-2-1	150.39
MVS-170X200X60	1-5-1	324.16
MVS-180X210X60	1-5-1	302.90
MVS-190X220X60	1-5-1	348.35
MVS-200X220X40	1-5-1	230.41
MVS-200X230X60	1-5-1	363.49

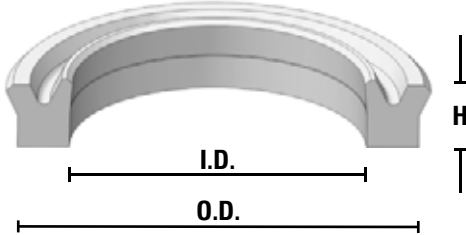
Do you have a seal you can't find?

Let us make it for you with our custom seal machines (**see page xxxvi**) or send it to us and we will source it for you.



[SEAL INFORMATION]

MPU

**MATERIAL** URETHANE**TEMPERATURE RANGE** -22° TO +212° F**PRESSURE RANGE** 0 TO 5,000 PSI**PART NUMBER** (Prefix) - (ID) X (OD) X (H)

Molded from high quality urethane, the MPU is designed specifically for piston applications.

PART NUMBER	LIST PRICE
MPU-15X25X8.2	\$ 7.78
MPU-17X25X5.7	8.21
MPU-24X32X5.7	8.21
MPU-25X35X7.3	8.93
MPU-21X37X11.8	9.58
MPU-30X40X7.3	8.93
MPU-35X45X6	11.92
MPU-35X45X7	7.08
MPU-32X50X10	8.09
MPU-40X50X6	11.47
MPU-40X50X7.3	12.44
MPU-45X55X6	13.21
MPU-45X55X7.3	12.44
MPU-45X60X10	11.06

PART NUMBER	LIST PRICE
MPU-50X60X6	\$ 13.24
MPU-50X60X7	13.24
MPU-48X63X11.4	11.06
MPU-53X63X7	9.62
MPU-53X63X7.3	10.70
MPU-53X63X12	8.99
MPU-50X65X10	18.22
MPU-50X70X12	19.92
MPU-50X70X15	9.62
MPU-55X70X9	20.29
MPU-55X70X10	13.90
MPU-60X70X6	17.28
MPU-61X71X6	19.92
MPU-57X73X10	19.02

PART NUMBER	LIST PRICE
MPU-65X75X6	\$ 19.92
MPU-67X75X8.8	10.17
MPU-62X78X10	17.35
MPU-60X80X12	22.31
MPU-65X80X9	22.31
MPU-65X80X11.4	20.97
MPU-65X80X12	9.62
MPU-70X80X6	19.92
MPU-70X80X6.8	13.55
MPU-70X80X7	8.09
MPU-70X90X12	46.77
MPU-75X90X9	24.37
MPU-80X90X6	27.37
MPU-80X100X12	34.10

PART NUMBER	LIST PRICE
MPU-85X100X9	\$ 30.64
MPU-85X100X11.4	20.00
MPU-90X100X6.8	17.78
MPU-85X105X15	37.90
MPU-90X110X12	38.24
MPU-100X110X8	38.24
MPU-105X125X14.5	42.42
MPU-115X125X15	14.12
MPU-130X150X14.5	50.63
MPU-140X150X13.6	39.13
MPU-140X160X18.2	53.65
MPU-180X200X14.5	67.13

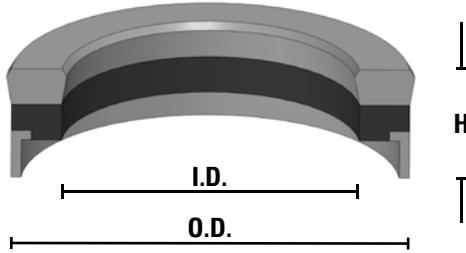
MUFN-PWO PISTON SEALS

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PISTON U-SEALS

[SEAL INFORMATION]

MUFN-PWO



MATERIAL	NYLON /FABRIC BASE ACETAL BEARING
TEMPERATURE RANGE	-22° TO +220° F
PRESSURE RANGE	0 TO 6,000 PSI
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

Constructed of a rubber seal lip with a rubberized fabric heel, these seals feature a poly-acetal bearing ring. These seals offer excellent sealing ability and high pressure capability. The solid lip area increases the radial interference for improved low-pressure sealing. These seals are commonly with our MSR retention rings.

PART NUMBER	LIST PRICE
MUFN-30X50X14PWO	\$ 10.29
MUFN-40X60X14PWO	11.05
MUFN-45X60X10.5PWO	10.37
MUFN-50X70X14PWO	11.18

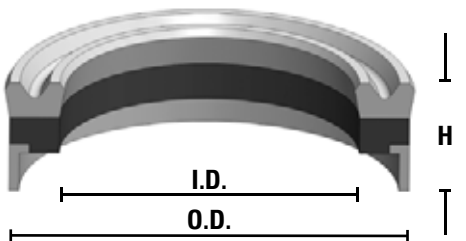
PART NUMBER	LIST PRICE
MUFN-60X80X14PWO	\$ 12.69
MUFN-70X90X14PWO	15.56
MUFN-80X100X14PWO	16.85
MUFN-85X104.5X12.8PWO	18.72

PART NUMBER	LIST PRICE
MUFN-85X105X14PWO	\$ 18.23
MUFN-90X110X12.5PWO	16.62
MUFN-120X140X12PWO	20.14

MUFN-UWO PISTON SEALS

[SEAL INFORMATION]

MUFN-UWO



MATERIAL	NYLON /FABRIC BASE ACETAL BEARING
TEMPERATURE RANGE	-22° TO +220° F
PRESSURE RANGE	0 TO 6,000 PSI
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

Constructed of a rubber seal lip with a rubberized fabric heel, these seals feature a poly-acetal bearing ring. These seals offer excellent sealing ability and high pressure capability. They are commonly with MSR retention rings.

PART NUMBER	LIST PRICE
MUFN-26X40X9UWO	\$ 11.87
MUFN-40X50X10UWO	8.80
MUFN-40X55X10.5UWO	9.01

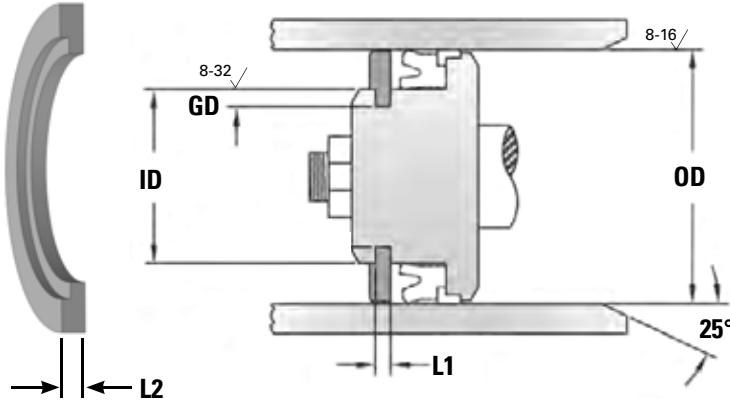
PART NUMBER	LIST PRICE
MUFN-50X63X10UWO	\$ 12.74
MUFN-60X80X14UWO	14.08
MUFN-65X80X12UWO	11.31

PART NUMBER	LIST PRICE
MUFN-70X90X14UWO	\$ 15.50
MUFN-80X100X14UWO	14.74

METRIC

[SEAL INFORMATION]

MSR

**MATERIAL**

ACETAL

TEMPERATURE RANGE

-22° TO +212° F

PART NUMBER

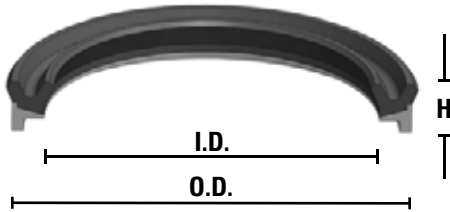
(Prefix) - (OD) X (ID)

These rings are split for ease of installation and are retained in a groove. Their use is primarily to retain a single acting piston seal. Commonly are used with MUFN piston seals.

PART NUMBER	ID	OD	L1	L2	GROOVE DEPTH	LIST PRICE
MSR-40X26	26	40	3.12	6.00	2.10	\$ 2.76
MSR-40X28	28	40	3.12	6.00	2.10	3.37
MSR-50X30	30	50	3.30	6.20	2.10	3.85
MSR-50X35	35	50	3.30	6.40	2.10	3.97
MSR-50X40	40	50	2.62	5.00	2.10	4.27
MSR-63X50	50	63	3.30	6.48	2.10	4.81
MSR-65X50	50	65	3.10	6.00	2.10	5.79
MSR-70X50	50	70	3.30	6.48	2.10	4.45
MSR-80X60	60	80	3.30	6.48	2.10	4.45
MSR-80X65	65	80	3.12	6.48	2.10	4.45
MSR-90X70	70	90	3.30	6.48	2.10	5.55
MSR-104.5X85	85	104.5	3.30	6.48	2.10	9.56
MSR-105X85	85	105	4.60	6.48	2.10	8.67
MSR-110X90	90	110	3.30	6.48	2.10	9.39
MSR-115X95	95	115	3.30	6.48	2.10	9.27

[SEAL INFORMATION]

MHP26



MATERIAL

NYLON 70 SEAL
NYLON BACK-UP

TEMPERATURE RANGE

-20° TO +220° F

PRESSURE RANGE

0 TO 3,000 PSI

Molded from 70A nitrile for high sealability, they employ a hard nylon anti-extrusion ring as a companion piece.

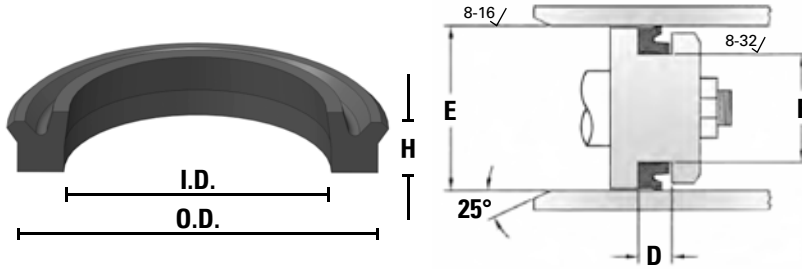
PART NUMBER	I.D.	O.D.	H	LIST PRICE
MHP26-045	27	45	12.1	\$ 25.49
MHP26-050	32	50	12.1	32.12
MHP26-055	37	55	12.1	32.07
MHP26-060	42	60	12.1	33.21
MHP26-065	47	65	12.1	34.85
MHP26-070	48	70	14.5	35.93
MHP26-080	58	80	14.5	37.13
MHP26-090	68	90	14.5	38.23
MHP26-100	78	100	14.5	39.46
MHP26-110	88	110	14.5	42.46
MHP26-115	93	115	14.5	42.46

PART NUMBER	I.D.	O.D.	H	LIST PRICE
MHP26-120	98	120	14.5	\$ 44.02
MHP26-125	103	125	14.5	47.78
MHP26-130	108	130	14.5	47.78
MHP26-140	118	140	14.5	55.09
MHP26-150	128	150	14.5	61.44
MHP26-160	138	160	14.5	66.22
MHP26-170	148	170	14.5	79.34
MHP26-180	158	180	14.5	84.74
MHP26-190	168	190	14.5	89.95
MHP26-200	178	200	14.5	91.98



[SEAL INFORMATION]

MUKPN



MATERIAL	80A NITRILE
TEMPERATURE RANGE	-22° TO +212° F
PRESSURE RANGE	0 TO 1,500 PSI
SPEED	3 FT/SEC

MUKPN is an asymmetrical single-acting pneumatic piston seal. Molded in Nitrile, this seal is resistant to water and most oils while maintaining good low-pressure sealing.

PART NUMBER	A NOM. I.D.	B NOM. O.D.	C NOM. HT.	D GROOVE WIDTH	E BORE DIAMETER	F GROOVE DIAMETER	LIST PRICE
MUKPN-10X5X3.5	5	10	3.5	4 +0.200/ 0.000	10 +0.090/ 0.000	5 0.000/-0.030	\$ 4.33
MUKPN-16X8X5.5	8	16	5.5	6 +0.200/ 0.000	16 +0.110/ 0.000	8 0.000/-0.036	3.32
MUKPN-16X10X4	10	16	4	4.5 +0.200/ 0.000	16 +0.110/ 0.000	10 0.000/-0.036	3.32
MUKPN-18X10X5.5	10	18	5.5	6 +0.200/ 0.000	18 +0.110/ 0.000	10 0.000/-0.036	3.32
MUKPN-20X12X5.5	12	20	5.5	6 +0.200/ 0.000	20 +0.130/ 0.000	12 0.000/-0.043	3.32
MUKPN-20X14X6	14	20	6	6.5 +0.200/ 0.000	20 +0.130/ 0.000	14 0.000/-0.043	4.23
MUKPN-25X15X5	15	25	5	5.5 +0.200/ 0.000	25 +0.130/ 0.000	15 0.000/-0.043	4.23
MUKPN-28X16X9	16	28	9	10 +0.200/ 0.000	28 +0.130/ 0.000	16 0.000/-0.043	4.23
MUKPN-30X15X10	15	30	10	11 +0.200/ 0.000	30 +0.130/ 0.000	15 0.000/-0.043	4.23
MUKPN-30X20X7	20	30	7	7.5 +0.200/ 0.000	30 +0.130/ 0.000	20 0.000/-0.052	5.35
MUKPN-30X22X5.5	22	30	5.5	6 +0.200/ 0.000	30 +0.130/ 0.000	22 0.000/-0.052	5.35
MUKPN-32X22X7	22	32	7	7.5 +0.200/ 0.000	32 +0.160/ 0.000	22 0.000/-0.052	5.35
MUKPN-32X24X5.5	24	32	5.5	6 +0.200/ 0.000	32 +0.160/ 0.000	24 0.000/-0.052	5.35
MUKPN-35X22X8	22	35	8	8.5 +0.200/ 0.000	35 +0.160/ 0.000	22 0.000/-0.052	5.58
MUKPN-36X24X9	24	36	9	10 +0.200/ 0.000	36 +0.160/ 0.000	24 0.000/-0.052	5.58
MUKPN-36X26X7	26	36	7	7.5 +0.200/ 0.000	36 +0.160/ 0.000	26 0.000/-0.052	5.58
MUKPN-38X26X10	26	38	10	11 +0.200/ 0.000	38 +0.160/ 0.000	26 0.000/-0.052	5.58
MUKPN-40X28X6	28	40	6	6.5 +0.200/ 0.000	40 +0.160/ 0.000	28 0.000/-0.052	6.14
MUKPN-40X28X9	28	40	9	10 +0.200/ 0.000	40 +0.160/ 0.000	28 0.000/-0.052	4.91
MUKPN-40X30X7	30	40	7	7.5 +0.200/ 0.000	40 +0.160/ 0.000	30 0.000/ -0.052	4.91
MUKPN-40X32X3.25	32	40	3.25	3.75 +0.200/ 0.000	40 +0.160/ 0.000	32 0.000/ 0.062	4.91
MUKPN-44X28X12	28	44	12	13 +0.200/ 0.000	44 +0.160/ 0.000	28 0.000/-0.052	5.13
MUKPN-45X33X9	33	45	9	10 +0.200/ 0.000	45 +0.160/ 0.000	33 0.000/-0.062	5.52
MUKPN-45X37X6	37	45	6	6.5 +0.200/ 0.000	45 +0.160/ 0.000	37 0.000/-0.062	5.52
MUKPN-48X40X5.5	40	48	5.5	6 +0.200/ 0.000	48 +0.160/ 0.000	40 0.000/-0.062	5.52
MUKPN-50X30X15	30	50	15	16 +0.200/ 0.000	50 +0.160/ 0.000	30 0.000/-0.052	5.80
MUKPN-50X38X6	38	50	6	6.5 +0.200/ 0.000	50 +0.160/ 0.000	38 0.000/-0.062	5.80
MUKPN-50X40X7.2	40	50	7.2	7.7 +0.200/ 0.000	50 +0.160/ 0.000	40 0.000/ 0.062	5.80
MUKPN-50X42X3.25	42	50	3.25	3.75 +0.200/ 0.000	50 +0.160/ 0.000	42 0.000/-0.062	7.99
MUKPN-50X42X8	42	50	8	8.5 +0.200/ 0.000	50 +0.160/ 0.000	42 0.000/-0.062	6.07

MUKPN U-TYPE PISTON SEALS

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PISTON U-SEALS

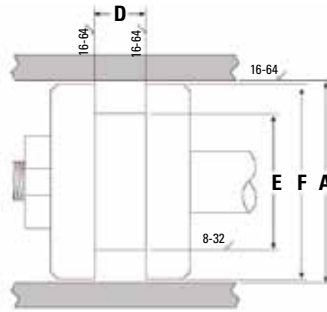
PART NUMBER	A NOM. I.D.	B NOM. O.D.	C NOM. HT.	D GROOVE WIDTH	E BORE DIAMETER	F GROOVE DIAMETER	LIST PRICE
MUKPN-52X36X12	36	52	12	13 +0.200/ 0.000	52 +0.190/ 0.000	36 0.000-0.062	\$ 6.35
MUKPN-54X46X8	46	54	8	8.5 +0.200/ 0.000	54 +0.190/ 0.000	46 0.000/-0.062	6.35
MUKPN-55X45X7.5	45	55	7.5	8 +0.200/ 0.000	55 +0.190/ 0.000	45 0.000/-0.062	6.60
MUKPN-60X40X12	40	60	12	13 +0.200/ 0.000	60 +0.190/ 0.000	40 0.000/-0.062	6.90
MUKPN-60X44X12	44	60	12	13 +0.200/ 0.000	60 +0.190/ 0.000	44 0.000/-0.062	7.07
MUKPN-60X48X7.5	48	60	7.5	8 +0.200/ 0.000	60 +0.190/ 0.000	48 0.000/-0.062	7.07
MUKPN-60X48X9	48	60	9	10 +0.200/ 0.000	60 +0.190/ 0.000	48 0.000/-0.062	7.07
MUKPN-60X50X7	50	60	7	7.5 +0.200/ 0.000	60 +0.190/ 0.000	50 0.000/-0.062	7.33
MUKPN-60X50X10.5	50	60	10.5	11.5 +0.200/0.000	60 +0.190/ 0.000	50 0.000/-0.062	7.39
MUKPN-62X46X12	46	62	12	13 +0.200/ 0.000	62 +0.190/ 0.000	46 0.000/-0.062	7.50
MUKPN-65X49X12	49	65	12	13 +0.200/ 0.000	65 +0.190/ 0.000	49 0.000/-0.062	7.50
MUKPN-65X53X10	53	65	10	11 +0.200/ 0.000	65 +0.190/ 0.000	53 0.000/-0.074	7.75
MUKPN-65X55X12	55	65	12	13 +0.200/ 0.000	65 +0.190/ 0.000	55 0.000/-0.074	7.75
MUKPN-70X54X12	54	70	12	13 +0.200/ 0.000	70 +0.190/ 0.000	54 0.000/-0.074	8.41
MUKPN-70X58X8.5	58	70	8.5	9.5 +0.200/ 0.000	70 +0.190/ 0.000	58 0.000/-0.074	8.41
MUKPN-75X55X12	55	75	12	13 +0.200/ 0.000	75 +0.190/ 0.000	55 0.000/-0.074	8.97
MUKPN-75X59X12	59	75	12	13 +0.200/ 0.000	75 +0.190/ 0.000	59 0.000/-0.074	8.97
MUKPN-75X63X8.5	63	75	8.5	9.5 +0.200/ 0.000	75 +0.190/ 0.000	63 0.000/-0.074	9.42
MUKPN-80X60X14	60	80	14	15 +0.200/ 0.000	80 +0.190/ 0.000	60 0.000/-0.074	9.76
MUKPN-80X64X12	64	80	12	13 +0.200/ 0.000	80 +0.190/ 0.000	64 0.000/-0.074	9.76
MUKPN-80X68X8.5	68	80	8.5	9.5 +0.200/ 0.000	80 +0.190/ 0.000	68 0.000/-0.074	9.76
MUKPN-80X72X12	72	80	12	13 +0.200/ 0.000	80 +0.190/ 0.000	72 0.000/-0.074	10.02
MUKPN-85X73X8.2	73	85	8.2	9.2 +0.200/ 0.000	85 +0.220/ 0.000	73 0.000/-0.074	10.44
MUKPN-90X78X8.5	78	90	8.5	9.5 +0.200/ 0.000	90 +0.220/ 0.000	78 0.000/-0.074	11.78
MUKPN-100X82X13.5	82	100	13.5	14.5 +0.200/0.000	100 +0.220/ 0.000	82 0.000/-0.087	14.49
MUKPN-100X84X8	84	100	8	8.5 +0.200/ 0.000	100 +0.220/ 0.000	84 0.000/-0.087	15.29
MUKPN-100X88X8.5	88	100	8.5	9.5 +0.200/ 0.000	100 +0.220/ 0.000	88 0.000/-0.087	16.26
MUKPN-110X90X15	90	110	15	16 +0.200/ 0.000	110 +0.220/ 0.000	90 0.000/-0.087	16.91
MUKPN-110X95X10.4	95	110	10.4	11.4 +0.200/0.000	110 +0.220/ 0.000	95 0.000/-0.087	16.91
MUKPN-115X95X15	95	115	15	16 +0.200/ 0.000	115 +0.220/ 0.000	95 0.000/-0.087	17.89
MUKPN-115X100X10	100	115	10	11 +0.200/ 0.000	115 +0.220/ 0.000	100 0.000/-0.087	17.89
MUKPN-120X105X10	105	120	10	11 +0.200/ 0.000	120 +0.220/ 0.000	105 0.000/-0.087	19.00
MUKPN-120X106X14	106	120	14	15 +0.200/ 0.000	120 +0.220/ 0.000	106 0.000/-0.087	19.00
MUKPN-125X103X16	103	125	16	17 +0.200/ 0.000	125 +0.250/ 0.000	103 0.000/-0.087	20.13
MUKPN-125X110X10	110	125	10	11 +0.200/ 0.000	125 +0.250/ 0.000	110 0.000/-0.087	17.23
MUKPN-136X116X14	116	136	14	15 +0.200/ 0.000	136 +0.250/ 0.000	116 0.000/-0.087	23.17
MUKPN-140X120X14	120	140	14	15 +0.200/ 0.000	140 +0.250/ 0.000	120 0.000/-0.087	20.90
MUKPN-140X125X10	125	140	10	11 +0.200/ 0.000	140 +0.250/ 0.000	125 0.000/ 0.100	20.90
MUKPN-150X135X10	135	150	10	11 +0.200/ 0.000	150 +0.250/ 0.000	135 0.000/-0.100	51.47
MUKPN-160X145X10	145	160	10	11 +0.200/ 0.000	160 +0.250/ 0.000	145 0.000/-0.100	25.43
MUKPN-175X145X18	145	175	18	19 +0.200/ 0.000	175 +0.250/ 0.000	145 0.000/-0.100	39.95
MUKPN-195X170X14	170	195	14	15 +0.200/ 0.000	195 +0.290/ 0.000	170 0.000/-0.100	51.64
MUKPN-200X180X8.25	180	200	8.25	9.25 +0.200/0.000	200 +0.290/ 0.000	180 0.000/-0.100	54.73
MUKPN-200X180X14	180	200	14	15 +0.200/ 0.000	200 +0.290/ 0.000	180 0.000/-0.100	58.12
MUKPN-250X230X14	230	250	14	15 +0.200/ 0.000	250 +0.290/ 0.000	230 0.000/-0.115	77.72



METRIC

[SEAL INFORMATION]

MPSR



MATERIAL

PTFE PISTON SEAL
NITRILE 70 ENERGIZER

TEMPERATURE RANGE

-40° TO +230° F

PRESSURE RANGE

0 TO 5,000 PSI

PART NUMBER

(Prefix) - (OD) X (E) X (D)

Molded from filled PTFE and machined to close tolerances, these seals feature low friction and excellent wear characteristics. Nitrile O-rings are used for energizers.

PART NUMBER	A BORE DIAMETER	W SEAL WIDTH	CS1 SEAL CROSS SECTION	D - GROOVE WIDTH TOL. +0.2/-0	E GROOVE DIAMETER	F PISTON DIAMETER	LIST PRICE
MPSR-12X7.1X2.2-B5	12 +0.043/-0	2.0	1.0	2.2	7.1 +0/-0.036	12 -0.016/-0.043	\$ 7.37
MPSR-15X7.5X3.2-B5	15 +0.043/-0	3.0	2.0	3.2	7.5 +0/-0.036	15 -0.016/-0.043	8.57
MPSR-16X11.1X2.2-B5	16 +0.043/-0	2.0	1.0	2.2	11.1 +0/-0.043	16 -0.016/-0.043	9.75
MPSR-20X12.5X3.2-B5	20 +0.052/-0	3.0	2.0	3.2	12.5 +0/-0.043	20 -0.020/-0.053	9.75
MPSR-22X14.5X3.2-B5	22 +0.052/-0	3.0	2.0	3.2	14.5 +0/-0.043	22 -0.020/-0.053	9.75
MPSR-25X17.5X3.2-B5	25 +0.052/-0	3.0	2.0	3.2	17.5 +0/-0.043	25 -0.020/-0.053	9.75
MPSR-28X20.5X3.2-B5	28 +0.052/-0	3.0	2.0	3.2	20.5 +0/-0.052	28 -0.020/-0.053	11.29
MPSR-30X25.1X2.2-B5	30 +0.052/-0	2.0	1.0	2.2	25.1 +0/-0.052	30 -0.020/-0.053	12.48
MPSR-30X22.5X3.2-B5	30 +0.052/-0	3.0	2.0	3.2	22.5 +0/-0.052	30 -0.020/-0.053	11.29
MPSR-32X27.1X2.2-B5	32 +0.062/-0	2.0	1.0	2.2	27.1 +0/-0.052	32 -0.025/-0.064	15.69
MPSR-32X24.5X3.2	32 +0.062/-0	3.0	2.0	3.2	24.5 +0/-0.052	32 -0.025/-0.064	11.29
MPSR-35X27.5X3.2-B5	35 +0.062/-0	3.0	2.0	3.2	27.5 +0/-0.052	35 -0.025/-0.064	11.29
MPSR-35X25.5X4.5	35 +0.062/-0	4.3	1.8	4.5	25.5 +0/-0.052	35 -0.025/-0.064	3.02
MPSR-36X28.5X3.2-B5	36 +0.062/-0	3.0	2.0	3.2	28.5 +0/-0.052	36 -0.025/-0.064	13.69
MPSR-40X32.5X3.2-B5	40 +0.062/-0	3.0	2.0	3.2	32.5 +0/-0.062	40 -0.025/-0.064	13.69
MPSR-40X29.0X4.2-B5	40 +0.062/-0	4.0	2.9	4.2	29.0 +0/-0.052	40 -0.025/-0.064	13.69
MPSR-40X24.5X6.3-B5	40 +0.062/-0	6.0	3.5	6.3	24.5 +0/-0.052	40 -0.025/-0.064	13.69
MPSR-42X31.0X4.2-B5	42 +0.062/-0	4.0	2.9	4.2	31.0 +0/-0.062	42 -0.025/-0.064	16.66
MPSR-45X36.4X4.2	45 +0.062/-0	3.8	1.5	4.2	36.4 +0/-0.062	45 -0.025/-0.064	11.31
MPSR-45X34.0X4.2-B5	45 +0.062/-0	4.0	2.9	4.2	34.0 +0/-0.062	45 -0.025/-0.064	13.69
MPSR-45X35.0X4.5	45 +0.062/-0	4.3	2.0	4.5	35.0 +0/-0.062	45 -0.025/-0.064	13.67
MPSR-45X37.1X4.6	45 +0.062/-0	4.4	1.2	4.6	37.1 +0/-0.062	45 -0.025/-0.064	12.98
MPSR-48X37.0X4.2-B5	48 +0.062/-0	4.0	2.9	4.2	37.0 +0/-0.062	48 -0.025/-0.064	21.65
MPSR-50X41.3X2.9	50 +0.062/-0	2.7	2.5	2.9	41.3 +0/-0.062	50 -0.025/-0.064	12.37
MPSR-50X42.2X3.2-B5	50 +0.062/-0	3.0	2.0	3.2	42.2 +0/-0.062	50 -0.025/-0.064	21.65
MPSR-50X41.5X4.2	50 +0.062/-0	3.8	1.5	4.2	41.5 +0/-0.062	50 -0.025/-0.064	15.74
MPSR-50X39.0X4.2-B5	50 +0.062/-0	4.0	2.9	4.2	39.0 +0/-0.062	50 -0.025/-0.064	13.69
MPSR-50X40.0X4.5	50 +0.062/-0	4.3	2.0	4.5	40.0 +0/-0.062	50 -0.025/-0.064	21.87
MPSR-50X42.1X4.6	50 +0.062/-0	4.4	1.2	4.6	42.1 +0/-0.062	50 -0.025/-0.064	17.39

MPSR TWO PIECE PISTON SEALS

317

PISTON SEAL ASSEMBLIES

PART NUMBER	A BORE DIAMETER	W SEAL WIDTH	CS1 SEAL CROSS SECTION	D - GROOVE WIDTH TOL. +0.2/-0	E GROOVE DIAMETER	F PISTON DIAMETER	LIST PRICE
MPSR-50X34.5X6.3	50 +0.062/-0	6.0	3.5	6.3	34.5 +0/-0.062	50 -0.025/-0.064	\$ 23.63
MPSR-52X41.0X4.2-B5	52 +0.074/-0	4.0	2.9	4.2	41.0 +0/-0.062	52 -0.030/-0.076	20.21
MPSR-53X42.5X4.2	53 +0.074/-0	4.0	2.5	4.2	42.5 +0/-0.062	53 -0.030/-0.076	15.67
MPSR-55X44.0X4.2-B5	55 +0.074/-0	4.0	2.9	4.2	44.0 +0/-0.062	55 -0.030/-0.076	23.42
MPSR-55X45.0X4.5	55 +0.074/-0	4.3	2.0	4.5	45.0 +0/-0.062	55 -0.030/-0.076	21.87
MPSR-55X39.5X6.3	55 +0.074/-0	6.0	3.5	6.3	39.5 +0/-0.062	55 -0.030/-0.076	25.78
MPSR-56X45.5X4.2-B5	56 +0.074/-0	4.0	2.9	4.2	45.5 +0/-0.062	56 -0.030/-0.076	24.98
MPSR-60X51.1X4.2	60 +0.074/-0	3.8	2.0	4.2	51.1 +0/-0.062	60 -0.030/-0.076	15.36
MPSR-60X49.0X4.2-B5	60 +0.074/-0	4.0	2.9	4.2	49.0 +0/-0.062	60 -0.030/-0.076	13.69
MPSR-60X52.5X4.6	60 +0.074/-0	4.4	1.3	4.6	52.5 +0/-0.074	60 -0.030/-0.076	21.42
MPSR-60X49.5X5.1	60 +0.074/-0	4.9	2.5	5.1	49.5 +0/-0.062	60 -0.030/-0.076	18.69
MPSR-60X44.5X6.3	60 +0.074/-0	6.0	3.5	6.3	44.5 +0/-0.062	60 -0.030/-0.076	25.84
MPSR-60X45.8X7.2	60 +0.074/-0	7.0	2.5	7.2	45.8 +0/-0.062	60 -0.030/-0.076	6.48
MPSR-63X52.0X4.2-B5	63 +0.074/-0	4.0	2.9	4.2	52.0 +0/-0.074	63 -0.030/-0.076	13.69
MPSR-63X51.8X5.2	63 +0.074/-0	5.0	1.0	5.2	51.8 +0/-0.074	63 -0.030/-0.076	30.92
MPSR-63X47.5X6.3	63 +0.074/-0	6.0	3.5	6.3	47.5 +0/-0.062	63 -0.030/-0.076	25.84
MPSR-63X48.0X7.5	63 +0.074/-0	7.3	2.5	7.5	48.0 +0/-0.062	63 -0.030/-0.076	26.07
MPSR-65X54.0X4.2-B5	65 +0.074/-0	4.0	2.9	4.2	54.0 +0/-0.074	65 -0.030/-0.076	35.68
MPSR-65X49.5X6.3	65 +0.074/-0	6.0	3.5	6.3	49.5 +0/-0.062	65 -0.030/-0.076	26.38
MPSR-65X50.0X7.5	65 +0.074/-0	7.3	2.5	7.5	50.0 +0/-0.062	65 -0.030/-0.076	16.40
MPSR-70X61.7X4.2	70 +0.074/-0	4.0	1.8	4.2	61.7 +0/-0.074	70 -0.030/-0.076	16.67
MPSR-70X60.0X4.2	70 +0.074/-0	4.0	2.5	4.2	60.0 +0/-0.074	70 -0.030/-0.076	26.23
MPSR-70X59.0X4.2	70 +0.074/-0	4.0	2.9	4.2	59.0 +0/-0.074	70 -0.030/-0.076	14.26
MPSR-70X54.5X6.3	70 +0.074/-0	6.0	3.5	6.3	54.5 +0/-0.074	70 -0.030/-0.076	27.54
MPSR-70X55.9X6.5	70 +0.074/-0	6.2	2.5	6.5	55.9 +0/-0.074	70 -0.030/-0.076	18.30
MPSR-70X56.4X7.2	70 +0.074/-0	7.0	2.5	7.2	56.4 +0/-0.074	70 -0.030/-0.076	7.29
MPSR-71X56.0X7.5	71 +0.074/-0	7.3	2.5	7.5	56.0 +0/-0.074	71 -0.030/-0.076	21.09
MPSR-75X64.0X4.2-B5	75 +0.074/-0	4.0	2.9	4.2	64.0 +0/-0.074	75 -0.030/-0.076	14.86
MPSR-75X59.0X6.3	75 +0.074/-0	6.0	3.5	6.3	59.0 +0/-0.074	75 -0.030/-0.076	31.85
MPSR-75X60.9X6.5	75 +0.074/-0	6.2	2.5	6.5	60.9 +0/-0.074	75 -0.030/-0.076	23.72
MPSR-75X60.0X7.5	75 +0.074/-0	7.3	2.5	7.5	60.0 +0/-0.074	75 -0.030/-0.076	14.67
MPSR-80X69.0X4.2-B5	80 +0.074/-0	4.0	2.9	4.2	69.0 +0/-0.074	80 -0.030/-0.076	23.18
MPSR-80X64.5X6.3	80 +0.074/-0	6.0	3.5	6.3	64.5 +0/-0.074	80 -0.030/-0.076	28.07
MPSR-80X65.9X6.5	80 +0.074/-0	6.2	2.5	6.5	65.9 +0/-0.074	80 -0.030/-0.076	27.09
MPSR-80X65.8X7.2	80 +0.074/-0	7.0	2.5	7.2	65.8 +0/-0.074	80 -0.030/-0.076	10.21
MPSR-80X66.0X7.5	80 +0.074/-0	7.3	2.5	7.5	66.0 +0/-0.074	80 -0.030/-0.076	30.37
MPSR-80X59.0X8.1	80 +0.074/-0	7.9	5.0	8.1	59.0 +0/-0.074	80 -0.030/-0.076	33.22
MPSR-85X69.5X6.3	85 +0.087/-0	6.0	3.5	6.3	69.5 +0/-0.074	85 -0.036/-0.090	28.86
MPSR-85X64.0X8.1	85 +0.087/-0	7.9	5.0	8.1	64.0 +0/-0.074	85 -0.036/-0.090	33.97
MPSR-90X74.5X6.3	90 +0.087/-0	6.0	3.5	6.3	74.5 +0/-0.074	90 -0.036/-0.090	30.50
MPSR-90X75.8X7.2	90 +0.087/-0	7.0	2.5	7.2	75.8 +0/-0.074	90 -0.036/-0.090	12.71
MPSR-90X75.0X7.5	90 +0.087/-0	7.3	2.5	7.5	75.0 +0/-0.074	90 -0.036/-0.090	35.45
MPSR-90X69.0X8.1	95 +0.087/-0	7.9	5.0	8.1	69.0 +0/-0.074	90 -0.036/-0.090	37.66



METRIC

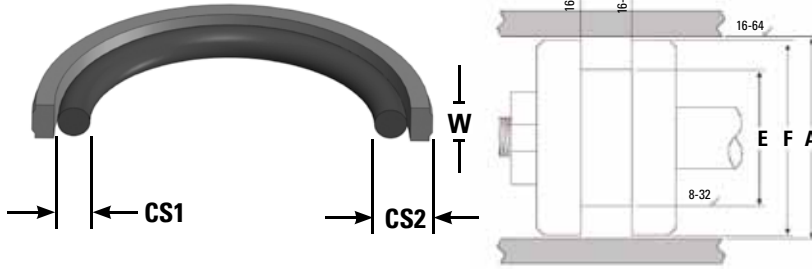
MPSR TWO PIECE PISTON SEALS

PART NUMBER	A BORE DIAMETER	W SEAL WIDTH	CS1 SEAL CROSS SECTION	D - GROOVE WIDTH TOL. +0.2/-0	E GROOVE DIAMETER	F PISTON DIAMETER	LIST PRICE
MPSR-95X79.5X6.3	95 +0.087/-0	6.0	3.5	6.3	79.5 +0/-0.074	95 -0.036/-0.090	\$ 33.97
MPSR-95X74.0X8.1	95 +0.087/-0	7.9	5.0	8.1	74.0 +0/-0.074	95 -0.036/-0.090	39.28
MPSR-100X84.5X6.3	100 +0.087/-0	6.0	3.5	6.3	84.5 +0/-0.087	100 -0.036/-0.090	28.45
MPSR-100X86.6X7.2	100 +0.087/-0	7.0	2.5	7.2	86.6 +0/-0.087	100 -0.036/-0.090	15.51
MPSR-100X79.0X8.1	100 +0.087/-0	7.9	5.0	8.1	79.0 +0/-0.074	100 -0.036/-0.090	38.96
MPSR-100X85.0X7.5	100 +0.087/-0	7.3	2.5	7.5	85.0 +0/-0.087	100 -0.036/-0.090	26.16
MPSR-105X84.0X8.1	105 +0.087/-0	7.9	5.0	8.1	84.0 +0/-0.087	105 -0.036/-0.090	31.58
MPSR-105X89.5X6.3	105 +0.087/-0	6.0	3.5	6.3	89.5 +0/-0.087	105 -0.036/-0.090	38.32
MPSR-110X94.5X6.3	110 +0.087/-0	6.0	3.5	6.3	94.5 +0/-0.087	110 -0.036/-0.090	31.76
MPSR-110X95.8X7.2	110 +0.087/-0	7.0	2.5	7.2	95.8 +0/-0.087	110 -0.036/-0.090	14.25
MPSR-110X89.0X8.1	110 +0.087/-0	7.9	5.0	8.1	89.0 +0/-0.087	110 -0.036/-0.090	41.83
MPSR-115X99.5X6.3	115 +0.087/-0	6.0	3.5	6.3	99.5 +0/-0.087	115 -0.036/-0.090	33.62
MPSR-115X100.8X7.2	115 +0.087/-0	7.0	2.5	7.2	100.8 +0/-0.087	115 -0.036/-0.090	20.67
MPSR-115X94.0X8.1	115 +0.087/-0	7.9	5.0	8.1	94.0 +0/-0.087	115 -0.036/-0.090	42.83
MPSR-120X104.5X6.3	120 +0.087/-0	6.0	3.5	6.3	104.5 +0/-0.087	120 -0.036/-0.090	34.37
MPSR-120X99.0X8.1	120 +0.087/-0	7.9	5.0	8.1	99.0 +0/-0.087	120 -0.036/-0.090	42.83
MPSR-125X109.5X6.3	125 +0.100/-0	6.0	3.5	6.3	109.5 +0/-0.087	125 -0.043/-0.106	35.45
MPSR-125X110.8X7.2	125 +0.100/-0	7.0	2.5	7.2	110.8 +0/-0.087	125 -0.043/-0.106	23.35
MPSR-125X104.0X8.1	125 +0.100/-0	7.9	5.0	8.1	104.0 +0/-0.087	125 -0.043/-0.106	42.83
MPSR-130X114.5X6.3	130 +0.100/-0	6.0	3.5	6.3	114.5 +0/-0.087	130 -0.043/-0.106	37.89
MPSR-130X109.0X8.1	130 +0.100/-0	7.9	5.0	8.1	109.0 +0/-0.087	130 -0.043/-0.106	44.31
MPSR-135X114.0X8.1	135 +0.100/-0	7.9	5.0	8.1	114.0 +0/-0.087	135 -0.043/-0.106	50.04
MPSR-140X119.0X8.1	140 +0.100/-0	7.9	5.0	8.1	119.0 +0/-0.087	140 -0.043/-0.106	50.59
MPSR-145X124.0X8.1	145 +0.100/-0	7.9	5.0	8.1	124.0 +0/-0.100	145 -0.043/-0.106	51.96
MPSR-150X129.0X8.1	150 +0.100/-0	7.9	5.0	8.1	129.0 +0/-0.100	150 -0.043/-0.106	54.41
MPSR-155X134.0X8.1	155 +0.100/-0	7.9	5.0	8.1	134.0 +0/-0.100	155 -0.043/-0.106	55.64
MPSR-160X139.0X8.1	160 +0.100/-0	7.9	5.0	8.1	139.0 +0/-0.100	160 -0.043/-0.106	59.37
MPSR-160X140.5X9.1	160 +0.100/-0	8.9	3.5	9.1	140.5 +0/-0.100	160 -0.043/-0.106	59.37
MPSR-165X144.0X8.1	165 +0.100/-0	7.9	5.0	8.1	144.0 +0/-0.100	165 -0.043/-0.106	65.64
MPSR-170X149.0X8.1	170 +0.100/-0	7.9	5.0	8.1	149.0 +0/-0.100	170 -0.043/-0.106	67.49
MPSR-180X159.0X8.1	180 +0.100/-0	7.9	5.0	8.1	159.0 +0/-0.100	180 -0.043/-0.106	76.93
MPSR-190X169.0X8.1	190 +0.115/-0	7.9	5.0	8.1	169.0 +0/-0.100	190 -0.050/-0.122	76.80
MPSR-200X179.0X8.1	200 +0.115/-0	7.9	5.0	8.1	179.0 +0/-0.100	200 -0.050/-0.122	79.10
MPSR-215X194.0X8.1	215 +0.115/-0	7.9	5.0	8.1	194.0 +0/-0.115	215 -0.050/-0.122	80.49
MPSR-220X199.0X8.1-B5	220 +0.115/-0	7.9	5.0	8.1	199.0 +0/-0.115	220 -0.050/-0.122	273.32
MPSR-225X204.0X8.1	225 +0.115/-0	7.9	5.0	8.1	204.0 +0/-0.115	225 -0.050/-0.122	88.37
MPSR-240X219.0X8.1	240 +0.115/-0	7.9	5.0	8.1	219.0 +0/-0.115	240 -0.050/-0.122	90.09
MPSR-250X229.0X8.1-B5	250 +0.115/-0	7.9	5.0	8.1	229.0 +0/-0.115	250 -0.050/-0.122	267.05



[SEAL INFORMATION]

MPSU



MATERIAL	GLASS/PTFE FILLED POLYESTER SEAL, RUBBER ENERGIZER
TEMPERATURE RANGE	-40° TO +230° F
PRESSURE RANGE	0 TO 5,000 PSI
PART NUMBER	(Prefix) - (OD) X (E) X (D)

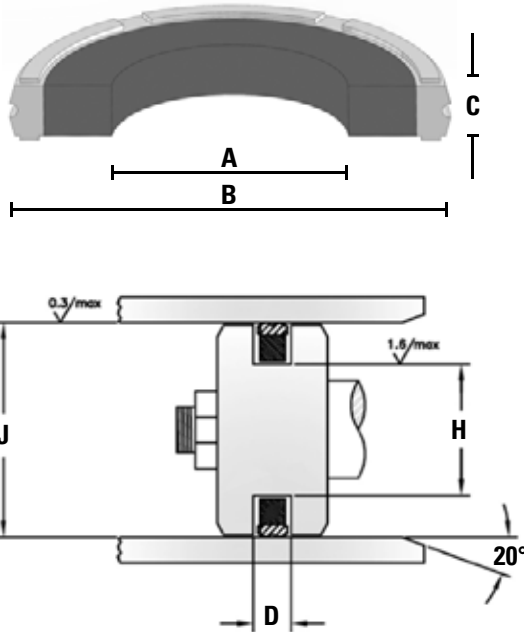
Molded from tough, wear resistant polyester with additives of 5% glass fiber and 5% PTFE, these seals are totally interchangeable with style seals of the same dimensions. Nitrile O-rings are used as energizers.

PART NUMBER	A BORE DIAMETER	W SEAL WIDTH	CS1 SEAL CROSS SECTION	D - GROOVE WIDTH TOL. +0.2/-0	E GROOVE DIAMETER	F PISTON DIAMETER	LIST PRICE
MPSU-25X17.5X3.2	25 +0.052/-0	3.0	2.0	3.2	17.5 +0/-0.043	25 -0.020/-0.053	\$ 5.27
MPSU-30X22.5X3.2	30 +0.052/-0	3.0	2.0	3.2	22.5 +0/-0.052	30 -0.020/-0.053	5.86
MPSU-40X29.0X4.2	40 +0.062/-0	4.0	2.9	4.2	29.0 +0/-0.052	40 -0.025/-0.064	6.53
MPSU-45X34.0X4.2	45 +0.062/-0	4.0	2.9	4.2	34.0 +0/-0.062	45 -0.025/-0.064	6.68
MPSU-50X39.0X4.2	50 +0.062/-0	4.0	2.9	4.2	39.0 +0/-0.062	50 -0.025/-0.064	6.99
MPSU-55X39.2X6.3	55 +0.074/-0	6.0	2.5	6.3	39.5 +0/-0.062	55 -0.030/-0.076	11.27
MPSU-60X49.0X4.2	60 +0.074/-0	4.0	2.9	4.2	49.0 +0/-0.062	60 -0.030/-0.076	7.47
MPSU-63X52.0X4.2	63 +0.074/-0	4.0	2.9	4.2	52.0 +0/-0.074	63 -0.030/-0.076	7.62
MPSU-63X50.0X6.3	63 +0.074/-0	6.0	2.4	6.3	50.0 +0/-0.062	63 -0.030/-0.076	10.55
MPSU-70X59.0X4.2	70 +0.074/-0	4.0	2.9	4.2	59.0 +0/-0.074	70 -0.030/-0.076	9.06
MPSU-70X54.0X6.3	70 +0.074/-0	5.9	2.5	6.3	54.0 +0/-0.074	70 -0.030/-0.076	9.79
MPSU-70X57.0X6.3	70 +0.074/-0	6.0	2.8	6.3	57.0 +0/-0.074	70 -0.030/-0.076	8.77
MPSU-75X64.0X4.2	75 +0.074/-0	4.0	2.9	4.2	64.0 +0/-0.074	75 -0.030/-0.076	9.70
MPSU-80X64.5X6.3	80 +0.074/-0	6.0	3.5	6.3	64.5 +0/-0.074	80 -0.030/-0.076	10.89
MPSU-90X75.0X6.3	90 +0.074/-0	6.0	2.5	6.3	75.0 +0/-0.074	90 -0.030/-0.076	24.54
MPSU-90X74.5X6.3	90 +0.074/-0	6.0	3.5	6.3	74.5 +0/-0.074	90 -0.036/-0.090	10.81
MPSU-90X75.0X7.5	90 +0.074/-0	7.3	2.5	7.5	75.0 +0/-0.074	90 -0.036/-0.090	32.41
MPSU-95X79.5X7.5	95 +0.087/-0	6.0	2.5	7.5	79.5 +0/-0.074	95 -0.036/-0.090	28.35
MPSU-100X84.5X6.3	100 +0.100/-0	6.0	3.5	6.3	84.5 +0/-0.087	100 -0.036/-0.090	11.52
MPSU-125X109.5X6.3	125 +0.100/-0	6.0	3.5	6.3	109.5 +0/-0.087	125 -0.043/-0.106	14.23
MPSU-125X104.0X8.1	125 +0.100/-0	7.9	5.0	8.1	104.0 +0/-0.087	125 -0.043/-0.106	37.85
MPSU-130X114.5X6.3	130 +0.100/-0	6.0	3.5	6.3	114.5 +0/-0.087	130 -0.043/-0.106	15.35
MPSU-130X109.0X8.1	130 +0.100/-0	7.9	5.0	8.1	109 +0/-0.087	130 -0.043/-0.106	23.75
MPSU-135X114.0X8.1	135 +0.100/-0	7.9	5.0	8.1	114 +0/-0.087	135 -0.043/-0.106	25.65
MPSU-140X119.0X8.1	140 +0.100/-0	7.9	5.0	8.1	119.0 +0/-0.087	140 -0.043/-0.106	22.66
MPSU-150X129.0X8.1	150 +0.100/-0	7.9	5.0	8.1	129.0 +0/-0.100	150 -0.043/-0.106	23.63
MPSU-150X129.0X10.5	150 +0.100/-0	10.0	4.0	10.5	129.0 +0/-0.100	150 -0.043/-0.106	48.40
MPSU-160X139.0X8.1	160 +0.100/-0	7.9	5.0	8.1	139.0 +0/-0.100	160 -0.043/-0.106	24.88
MPSU-170X149.0X8.1	170 +0.100/-0	7.9	5.0	8.1	149.0 +0/-0.100	170 -0.043/-0.106	18.76
MPSU-180X159.0X8.1	180 +0.100/-0	7.9	5.0	8.1	159.0 +0/-0.100	180 -0.043/-0.106	29.04
MPSU-210X189.0X8.1	210 +0.115/-0	7.9	5.0	8.1	189.0 +0/-0.115	210 -0.050/-0.122	31.14



[SEAL INFORMATION]

MCSM


MATERIAL

 94A URETHANE SEAL
 70A NITRILE ENERGIZER

TEMPERATURE RANGE

-22° TO +212° F

PRESSURE RANGE

0 TO 5,800 PSI

SPEED

1.5 FT/SEC

PART NUMBER

(Prefix) - (OD) X (ID) X (H)

MAXIMUM EXTRUSION GAP

GROOVE WIDTH (mm)	2,400 PSI 16 MPa	3,700 PSI 26 MPa	4,700 PSI 32 MPa	5,800 PSI 40 MPa
3.2	0.3	0.2	—	—
4.2	0.4	0.3	0.2	—
6.3	0.5	0.4	0.3	0.25
8.1	0.6	0.5	0.4	0.35
10.5	0.65	0.55	0.45	0.4

The MCSM is a compact, double-acting piston seal consisting of two parts: a urethane sealing ring with a pronounced sealing edge and a rectangular nitrile energizer to prevent the seal from twisting within the groove. It also has low friction and smooth operating movement even at low linear velocities.

PART NUMBER	A I.D.	B O.D.	C HT	D GROOVE WIDTH	H GROOVE DIAMETER	J BORE DIAMETER	LIST PRICE
MCSM-25X17.5X3.2	17.5	25	3	3.20 +0.200/+0.000	17.50 +0.000/-0.043	25.00 +0.052/-0.000	\$ 18.11
MCSM-30X22.5X3.2	22.5	30	3	3.20 +0.200/+0.000	22.50 +0.000/-0.043	30.00 +0.052/-0.000	19.89
MCSM-32X24.5X3.2	24.5	32	3	3.20 +0.200/+0.000	24.50 +0.000/-0.052	32.00 +0.062/+0.000	14.53
MCSM-40X24.5X6.3	24.5	40	6	6.30 +0.200/+0.000	24.50 +0.000/-0.052	40.00 +0.062/+0.000	20.61
MCSM-40X27.0X6.3	27.0	40	6	6.30 +0.200/+0.000	27.00 +0.000/-0.052	40.00 +0.062/+0.000	15.17
MCSM-40X29.0X4.2	29.0	40	4	4.20 +0.200/+0.000	29.00 +0.000/+0.052	40.00 +0.062/+0.000	20.39
MCSM-45X34.0X4.2	34.0	45	4	4.20 +0.200/+0.000	34.00 +0.000/-0.062	45.00 +0.062/+0.000	15.75
MCSM-50X34.5X6.3	34.5	50	6	6.30 +0.200/+0.000	34.50 +0.000/-0.062	50.00 +0.062/+0.000	11.97
MCSM-50X37.0X6.3	37.0	50	6	6.30 +0.200/+0.000	37.00 +0.000/-0.062	50.00 +0.062/+0.000	11.97
MCSM-50X39.0X4.2	39.0	50	4	4.20 +0.200/+0.000	39.00 +0.000/-0.062	55.00 +0.062/+0.000	12.17
MCSM-55X39.5X6.3	39.5	55	6	6.30 +0.200/+0.000	39.50 +0.000/-0.062	55.00 +0.074/+0.000	11.64
MCSM-60X44.5X6.3	44.5	60	6	6.30 +0.200/+0.000	44.50 +0.000/-0.062	60.00 +0.074/+0.000	12.78
MCSM-60X49.0X4.2	49.0	60	4	4.20 +0.200/+0.000	49.00 +0.000/-0.062	60.00 +0.074/+0.000	12.96
MCSM-63X47.5X6.3	47.5	63	6	6.30 +0.200/+0.000	47.50 +0.000/-0.062	63.00 +0.074/+0.000	21.84
MCSM-63X50.0X6.3	50.0	63	6	6.30 +0.200/+0.000	50.00 +0.000/-0.062	63.00 +0.062/+0.000	16.56
MCSM-63X52.0X4.2	52.0	63	4	4.20 +0.200/+0.000	52.00 +0.000/-0.062	63.00 +0.062/+0.000	15.02
MCSM-65X49.5X6.3	49.5	65	6	6.30 +0.200/+0.000	49.50 +0.000/-0.062	65.00 +0.062/+0.000	14.40

MCSM TWO PIECE PISTON SEALS

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PISTON SEAL ASSEMBLIES

PART NUMBER	A I.D.	B O.D.	C HT	D GROOVE WIDTH	H GROOVE DIAMETER	J BORE DIAMETER	LIST PRICE
MCSM-65X52.0X6.3	52.0	65	6	6.30 +0.200/+0.000	52.00 +0.000/-0.074	65.00 +0.074/+0.000	\$ 21.08
MCSM-70X54.5X6.3	54.5	70	6	6.30 +0.200/+0.000	54.50 +0.000/-0.074	70.00 +0.074/+0.000	16.13
MCSM-70X55.0X7.3	55.0	70	7.3	7.50 +0.200/+0.000	55.00 +0.000/-0.074	70.00 +0.074/+0.000	16.29
MCSM-70X57.0X6.3	57.0	70	6	6.30 +0.200/+0.000	57.00 +0.000/-0.074	70.00 +0.074/+0.000	22.39
MCSM-70X59.0X4.2	59.0	70	4	4.20 +0.200/+0.000	59.00 +0.000/-0.074	70.00 +0.074/+0.000	22.75
MCSM-75X59.5X6.3	59.5	75	6	6.30 +0.200/+0.000	59.50 +0.000/-0.074	75.00 +0.074/+0.000	16.32
MCSM-75X62.0X6.3	62.0	75	6	6.30 +0.200/+0.000	62.00 +0.000/-0.074	75.00 +0.074/+0.000	19.91
MCSM-80X59.0X10.5	59.0	80	10	10.30 +0.200/+0.000	59.00 +0.000/-0.074	80.00 +0.074/+0.000	18.68
MCSM-80X64.5X6.3	64.5	80	6	6.30 +0.200/+0.000	64.50 +0.000/-0.074	80.00 +0.074/+0.000	19.36
MCSM-80X66.5X6.3	66.5	80	6	6.30 +0.200/+0.000	66.50 +0.000/-0.074	80.00 +0.074/+0.000	23.50
MCSM-85X69.5X6.3	69.5	85	6	6.30 +0.200/+0.000	69.50 +0.000/-0.074	85.00 +0.087/+0.000	29.24
MCSM-85X71.5X6.3	71.5	85	6	6.30 +0.200/+0.000	71.50 +0.000/-0.074	85.00 +0.087/+0.000	30.22
MCSM-90X74.5X6.3	74.5	90	6	6.30 +0.200/+0.000	74.50 +0.000/-0.074	90.00 +0.087/+0.000	30.60
MCSM-90X75.0X7.5	75.0	90	7	7.50 +0.200/+0.000	75.00 +0.000/-0.074	90.00 +0.087/+0.000	36.55
MCSM-95X79.5X6.3	79.5	95	6	6.30 +0.200/+0.000	79.50 +0.000/-0.074	95.00 +0.087/+0.000	31.10
MCSM-100X79.0X8.1	79.0	100	8	8.10 +0.200/+0.000	79.00 +0.000/-0.074	100.00 +0.087/+0.000	35.71
MCSM-100X84.5X6.3	84.5	100	6	6.30 +0.200/+0.000	84.50 +0.000/-0.087	100.00 +0.087/+0.000	31.50
MCSM-100X86.5X6.3	86.5	100	6	6.30 +0.200/+0.000	86.50 +0.000/-0.087	100.00 +0.087/+0.000	44.02
MCSM-110X89.0X8.1	89.0	110	8	8.10 +0.200/+0.000	89.00 +0.000/-0.087	110.00 +0.087/+0.000	32.19
MCSM-110X94.5X6.3	94.5	110	6	6.30 +0.200/+0.000	94.50 +0.000/-0.087	110.00 +0.087/+0.000	32.19
MCSM-115X94.0X8.1	94.0	115	8	8.10 +0.200/+0.000	94.00 +0.000/-0.087	115.00 +0.087/+0.000	403.06
MCSM-120X99.0X8.1	99.0	120	8	8.10 +0.200/+0.000	99.00 +0.000/-0.087	120.00 +0.087/+0.000	38.60
MCSM-120X99.0X10.5	99.0	120	10	10.50 +0.200/+0.000	99.00 +0.000/-0.087	120.00 +0.087/+0.000	42.27
MCSM-125X104.0X8.1	104.0	125	8	8.10 +0.200/+0.000	104.00 +0.000/-0.087	125.00 +0.100/+0.000	42.76
MCSM-125X104.0X10.5	104.0	125	10	10.50 +0.200/+0.000	104.00 +0.000/-0.087	125.00 +0.100/+0.000	44.84
MCSM-125X109.5X6.3	109.5	125	6	6.30 +0.200/+0.000	109.50 +0.000/-0.087	125.00 +0.100/+0.000	51.65
MCSM-130X109.0X8.1	109.0	130	8	8.10 +0.200/+0.000	109.00 +0.000/-0.087	130.00 +0.100/+0.000	54.12
MCSM-140X119.0X8.1	119.0	140	8	8.10 +0.200/+0.000	119.00 +0.000/-0.087	140.00 +0.100/+0.000	51.67
MCSM-140X119.0X10.5	119.0	140	10	10.50 +0.200/+0.000	119.00 +0.000/-0.087	140.00 +0.100/+0.000	53.33
MCSM-150X129.0X10.5	129.0	150	10	10.50 +0.200/+0.000	129.00 +0.000/-0.100	150.00 +0.100/+0.000	56.42
MCSM-160X139.0X8.1	139.0	160	8	8.10 +0.200/+0.000	139.00 +0.000/-0.100	160.00 +0.100/+0.000	69.58
MCSM-180X159.0X8.1	159.0	180	8	8.10 +0.200/+0.000	159.00 +0.000/-0.100	180.00 +0.100/+0.000	82.92

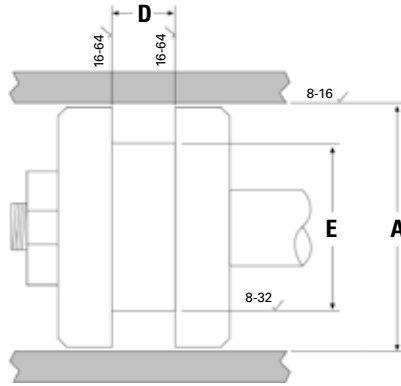


METRIC



[SEAL INFORMATION]

MPSD


MATERIAL

 97A URETHANE SEAL
70A NITRILE EXPANDER

TEMPERATURE RANGE

-22° TO +210° F

PRESSURE RANGE

0 TO 5,800 PSI

SPEED

1.6 FT/SEC

PART NUMBER

(Prefix) - (OD) X (W) X (CS1)

A double acting piston seal with many features: two compact seal edges to concentrate the load against the dynamic surface, a cavity between the two external seal edges to retain fluid (reducing friction and wear), side grooves to allow pressure to load the energizer in all working conditions, high sealing performance at low pressure, excellent wear resistance, and high resistance against extrusion.

MAXIMUM EXTRUSION GAP

	725	1450	2900	4350	5800
PRESSURE					
MAXIMUM DIAMETRICAL GAP (INCHES)	.047"	.031"	.016"	.010"	.007"

PART NUMBER	A BORE DIAMETER	E - GROOVE DIAMETER TOL. +0.1/-0	D - GROOVE WIDTH TOL. +0.2/-0	LIST PRICE
MPSD-25X14X4.2	25 +0.084/-0	14.0	4.2	\$ 5.90
MPSD-25X17.5X3.2	25 +0.084/-0	17.5	3.2	5.90
MPSD-30X22.5X3.2	30 +0.084/-0	22.5	3.2	5.91
MPSD-32X21X4.2	32 +0.100/-0	21.0	4.2	6.45
MPSD-32X24.5X3.2	32 +0.100/-0	24.5	3.2	6.30
MPSD-35X27.5X3.2	35 +0.100/-0	27.5	3.2	6.66
MPSD-38X30.5X3.2	38 +0.100/-0	30.5	3.2	5.71
MPSD-40X24.5X6.3	40 +0.100/-0	24.5	6.3	7.54
MPSD-40X29X4.2	40 +0.100/-0	29.0	4.2	7.16
MPSD-40X32.5X3.2	40 +0.100/-0	32.5	3.2	6.82
MPSD-45X29.5X6.3	45 +0.100/-0	29.5	6.3	8.25
MPSD-45X34X4.2	45 +0.100/-0	34.0	4.2	7.18
MPSD-50X34.5X6.3	50 +0.120/-0	34.5	6.3	8.70
MPSD-50X39X4.2	50 +0.120/-0	39.0	4.2	7.83
MPSD-55X39.5X6.3	55 +0.120/-0	39.5	6.3	9.02
MPSD-55X44X4.2	55 +0.120/-0	44	4.2	8.71
MPSD-60X44.5X6.3	60 +0.120/-0	44.5	6.3	10.21
MPSD-60X49X4.2	60 +0.120/-0	49.0	4.2	9.64
MPSD-63X47.5X6.3	63 +0.120/-0	47.5	6.3	11.22
MPSD-63X52X4.2	63 +0.120/-0	52.0	4.2	10.48
MPSD-65X49.5X6.3	65 +0.120/-0	49.5	6.3	11.49
MPSD-65X54X4.2	65 +0.120/-0	54.0	4.2	10.84

MPSD TWO PIECE PISTON SEALS

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PISTON SEAL ASSEMBLIES

PART NUMBER	A BORE DIAMETER	E - GROOVE DIAMETER TOL. +0.1/-0	D - GROOVE WIDTH TOL. +0.2/-0	LIST PRICE
MPSD-70X54.5X6.3	70 +0.120/-0	54.5	6.3	\$ 12.28
MPSD-70X59X4.2	70 +0.120/-0	59.0	4.2	11.48
MPSD-75X59.5X6.3	75 +0.120/-0	59.5	6.3	13.89
MPSD-75X64X4.2	75 +0.120/-0	64.0	4.2	12.30
MPSD-80X64.5X6.3	80 +0.120/-0	64.5	6.3	13.32
MPSD-80X69X4.2	80 +0.120/-0	69.0	4.2	12.75
MPSD-85X69.5X6.3	85 +0.140/-0	69.5	6.3	14.19
MPSD-90X74.5X6.3	90 +0.140/-0	74.5	6.3	14.67
MPSD-95X79.5X6.3	95 +0.140/-0	79.5	6.3	15.96
MPSD-100X84.5X6.3	100 +0.140/-0	84.5	6.3	17.54
MPSD-100X86.5X6.3	100 +0.140/-0	86.5	6.3	34.43
MPSD-110X94.5X6.3	110 +0.140/-0	94.5	6.3	33.70
MPSD-120X104.5X6.3	120 +0.140/-0	104.5	6.3	35.67
MPSD-125X109.5X6.3	125 +0.160/-0	109.5	6.3	34.80
MPSD-130X114.5X6.3	130 +0.160/-0	114.5	6.3	25.26
MPSD-140X119X8.1	140 +0.160/-0	119.0	8.1	26.72
MPSD-150X129X8.1	150 +0.160/-0	129.0	8.1	29.26
MPSD-160X139X8.1	160 +0.160/-0	139.0	8.1	31.71
MPSD-170X149X8.1	170 +0.160/-0	149.0	8.1	32.59
MPSD-180X159X8.1	180 +0.160/-0	159.0	8.1	34.43
MPSD-200X179X8.1	200 +0.185/-0	179.0	8.1	40.82
MPSD-250X229X8.1	250 +0.185/-0	229.0	8.1	63.13

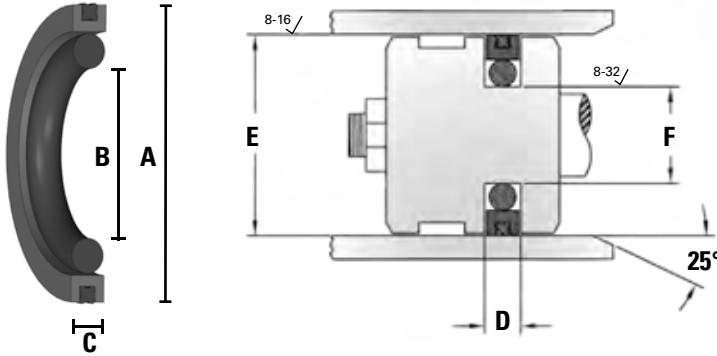


METRIC



[SEAL INFORMATION]

MPSQ

**MATERIAL**40% BRONZE FILLED PTFE,
NBR ENERGIZER,
NBR QUAD® RING**TEMPERATURE RANGE**

-40° TO +220° F

PRESSURE RANGE

0 TO 5,000 PSI

SPEED

6 FT/SEC

PART NUMBER

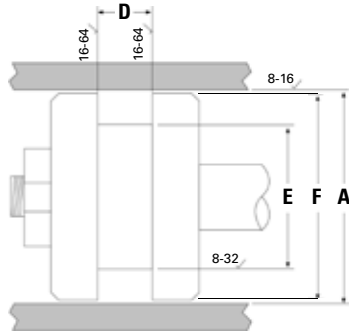
(Prefix) - (OD) X (W) X (CS1)

MPSQ piston seals are designed for bi-directional, low friction sealing with increased stability and superior leakage control. This seal is highly effective in applications requiring media separation or low gas permeation rate. This double acting seal is primarily used in accumulators and heavy duty cylinders.

PART NUMBER	A - NOM. O.D.	B - NOM. I.D.	C - NOM. HT.	D - GROOVE WIDTH	E - BORE DIAMETER	F - GROOVE DIAMETER	LIST PRICE
MPSQ-16X5X4.2	16	5	4	4.2 +0.200/ +0.000	5 +0.000/-0.030	16 +0.043/ +0.000	\$ 14.74
MPSQ-22X11X4.2	22	11	4	4.2 +0.200/ +0.000	11 +0.000/-0.043	22 +0.052/ +0.000	14.74
MPSQ-25X14X4.2	25	14	4	4.2 +0.200/ +0.000	14 +0.000/-0.043	25 +0.052/ +0.000	14.74
MPSQ-28X17X4.2	28	17	4	4.2 +0.200/ +0.000	17 +0.000/ 0.043	28 +0.052/ +0.000	15.46
MPSQ-30X19X4.2	30	19	4	4.2 +0.200/ +0.000	19 +0.000/-0.052	30 +0.052/ +0.000	18.85
MPSQ-32X21X4.2	32	21	4	4.2 +0.200/ +0.000	21 +0.000/-0.052	32 +0.062/ +0.000	18.85
MPSQ-35X24X4.2	35	24	4	4.2 +0.200/ +0.000	24 +0.000/-0.052	35 +0.062/ +0.000	19.57
MPSQ-40X29X4.2	40	29	4	4.2 +0.200/ +0.000	29 +0.000/-0.052	40 +0.062/ +0.000	17.58
MPSQ-42X31X4.2	42	31	4	4.2 +0.200/ +0.000	31 +0.000/-0.062	42 +0.062/ +0.000	17.58
MPSQ-45X34X4.2	45	34	4	4.2 +0.200/ +0.000	34 +0.000/-0.062	45 +0.062/ +0.000	21.33
MPSQ-50X34.5X6.3	50	34.5	6.1	6.3 +0.200/ +0.000	34.5 +0.000/-0.062	50 +0.062/ +0.000	25.09
MPSQ-50X39X4.2	50	39	4	4.2 +0.200/ +0.000	39 +0.000/-0.062	50 +0.062/ +0.000	20.69
MPSQ-52X41X4.2	52	41	4	4.2 +0.200/ +0.000	41 +0.000/-0.062	52 +0.074/ +0.000	22.25
MPSQ-55X44X4.2	55	44	4	4.2 +0.200/ +0.000	44 +0.000/-0.062	55 +0.074/ +0.000	23.82
MPSQ-60X49X4.2	60	49	4	4.2 +0.200/ +0.000	49 +0.000/-0.062	60 +0.074/ +0.000	25.94
MPSQ-63X47.5X6.3	63	47.5	6.1	6.3 +0.200/ +0.000	47.5 +0.000/-0.062	63 +0.074/ +0.000	28.88
MPSQ-63X52X4.2	63	52	4	4.2 +0.200/ +0.000	52 +0.000/-0.074	63 +0.074/ +0.000	28.78
MPSQ-65X54X4.2	65	54	4	4.2 +0.200/ +0.000	54 +0.000/-0.074	65 +0.074/ +0.000	28.91
MPSQ-70X54.5X6.3	70	54.5	6.1	6.3 +0.200/ +0.000	54.5 +0.000/-0.074	70 +0.074/ +0.000	39.96
MPSQ-70X59X4.2	70	59	4	4.2 +0.200/ +0.000	59 +0.000/-0.074	70 +0.074/ +0.000	30.47
MPSQ-75X64X4.2	75	64	4	4.2 +0.200/ +0.000	64 +0.000/-0.074	75 +0.074/ +0.000	32.04
MPSQ-80X59X8.1	80	59	7.9	8.1 +0.200/ +0.000	59 +0.000/-0.074	80 +0.074/ +0.000	55.99
MPSQ-80X64.5X6.3	80	64.5	6.1	6.3 +0.200/ +0.000	64.5 +0.000/-0.074	80 +0.074/ +0.000	44.65
MPSQ-85X69.5X6.3	85	69.5	6.1	6.3 +0.200/ +0.000	69.5 +0.000/-0.074	85 +0.087/ +0.000	50.74
MPSQ-90X74.5X6.3	90	74.5	6.1	6.3 +0.200/ +0.000	74.5 +0.000/-0.074	90 +0.087/ +0.000	54.14
MPSQ-95X79.5X6.3	95	79.5	6.1	6.3 +0.200/ +0.000	79.5 +0.000/-0.074	95 +0.087/ +0.000	60.95
MPSQ-100X84.5X6.3	100	84.5	6.1	6.3 +0.200/ +0.000	84.5 +0.000/-0.087	100 +0.087/ +0.000	64.06
MPSQ-105X89.5X6.3	105	89.5	6.1	6.3 +0.200/ +0.000	89.5 +0.000/-0.087	105 +0.087/ +0.000	64.63
MPSQ-110X94.5X6.3	110	94.5	6.1	6.3 +0.200/ +0.000	94.5 +0.000/-0.087	110 +0.087/ +0.000	70.87
MPSQ-115X99.5X6.3	115	99.5	6.1	6.3 +0.200/ +0.000	99.5 +0.000/-0.087	115 +0.087/ +0.000	85.33
MPSQ-120X104.5X6.3	120	104.5	6.1	6.3 +0.200/ +0.000	104.5 +0.000/-0.087	120 +0.087/ +0.000	77.95
MPSQ-125X109.5X6.3	125	109.5	6.1	6.3 +0.200/ +0.000	109.5 +0.000/-0.087	125 +0.100/ +0.000	87.59

[SEAL INFORMATION]

MPSN



MATERIAL

NYLON SEAL WITH
NITRILE ENERGIZER

TEMPERATURE RANGE

-22° TO +230° F

PRESSURE RANGE

0 TO 7,250 PSI

SPEED

3 FT/SEC

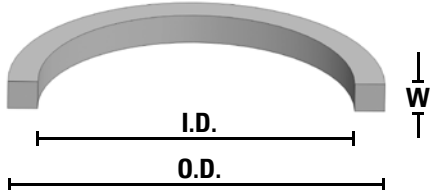
PART NUMBER

(Prefix) - (A) X (D) X (E)

The MPSN double acting piston seal is designed for heavy duty hydraulic applications. The small profile is resistant to shock loads and has high abrasion and extrusion resistance. Its split design allows simple installation on a solid piston.

PART NUMBER	A BORE DIA.	D - GROOVE WIDTH TOL. +0.20/-0	E GROOVE DIAMETER	F PISTON DIAMETER	LIST PRICE
MPSN-50X34.5X6.3	50 +0.062/-0	6.3	34.5 +0/-0.062	49.0	\$ 25.64
MPSN-63X47.5X6.3	63 +0.074/-0	6.3	47.5 +0/-0.062	62.0	27.23
MPSN-80X64.5X6.3	80 +0.074/-0	6.3	64.5 +0/-0.074	79.0	25.43
MPSN-80/1X59.0X8.1	80 +0.074/-0	8.1	59.0 +0/-0.074	79.0	46.77
MPSN-90X69.0X8.1	90 +0.087/-0	8.1	69.0 +0/-0.074	89.0	26.31
MPSN-100X79.0X8.1	100 +0.087/-0	8.1	79.0 +0/-0.074	99.0	29.09
MPSN-100X84.5X6.3	100 +0.087/-0	6.3	84.5 +0/-0.087	99.0	35.57
MPSN-105X84.0X8.1	105 +0.087/-0	8.1	84.0 +0/-0.087	103.8	32.80
MPSN-110X89.0X8.1	110 +0.087/-0	8.1	89.0 +0/-0.087	108.8	34.23
MPSN-115X94.0X8.1	115 +0.087/-0	8.1	94.0 +0/-0.087	113.8	38.18
MPSN-120X99.0X8.1	120 +0.087/-0	8.1	99.0 +0/-0.087	118.8	38.63
MPSN-125X104.0X8.1	125 +0.100/-0	8.1	104.0 +0/-0.087	123.8	42.42
MPSN-125X109.5X6.3	125 +0.100/-0	6.3	109.5 +0/-0.087	123.8	48.10
MPSN-130X109.0X8.1	130 +0.100/-0	8.1	109.0 +0/-0.087	128.8	45.12
MPSN-135X114.0X8.1	135 +0.100/-0	8.1	114.0 +0/-0.087	133.8	58.06
MPSN-140X119.0X8.1	140 +0.100/-0	8.1	119.0 +0/-0.087	138.8	52.75
MPSN-145X124X8.1	145 +0.100/-0	8.1	124.0 +0/-0.100	143.8	78.45
MPSN-150X129.0X8.1	150 +0.100/-0	8.1	129.0 +0/-0.100	148.8	55.42
MPSN-160X139.0X8.1	160 +0.100/-0	8.1	139.0 +0/-0.100	158.8	59.18
MPSN-165X144.0X8.1	165 +0.100/-0	8.1	144.0 +0/-0.100	163.8	84.46
MPSN-170X149.0X8.1	170 +0.100/-0	8.1	149.0 +0/-0.100	168.8	64.49
MPSN-180X159.0X8.1	180 +0.100/-0	8.1	159.0 +0/-0.100	178.8	75.57
MPSN-190X169.0X8.1	190 +0.115/-0	8.1	169.0 +0/-0.100	188.8	95.31
MPSN-200X179.0X8.1	200 +0.115/-0	8.1	179.0 +0/-0.100	198.8	105.32
MPSN-210X189.0X8.1	210 +0.115/-0	8.1	189.0 +0/-0.115	208.8	248.51
MPSN-220X199.0X8.1	220 +0.115/-0	8.1	199.0 +0/-0.115	218.8	118.11
MPSN-220X205.0X8.1	220 +0.115/-0	8.1	205.0 +0/-0.115	218.8	465.35
MPSN-230X209.0X8.1	230 +0.115/-0	8.1	209.0 +0/-0.115	228.8	134.97
MPSN-250X229.0X8.1	250 +0.115/-0	8.1	229.0 +0/-0.115	248.8	175.26
MPSN-260X239.0X8.1	260 +0.130/-0	8.1	239.0 +0/-0.115	258.8	232.40
MPSN-280X255.5X8.1	280 +0.130/-0	8.1	255.5 +0/-0.130	278.8	252.46
MPSN-290X271X9.5	290 +0.130/-0	9.5	271.0 +0/-0.130	288.8	1482.43
MPSN-300X272X9.5	300 +0.130/-0	9.5	272.0 +0/-0.130	298.8	942.96



[SEAL INFORMATION]**MBNP**

MATERIAL	NYLON
TEMPERATURE RANGE	-65° TO +220° F
PRESSURE RANGE	0 TO 5,000 PSI
PART NUMBER	(Prefix) - (OD) X (CS) X (W)

Placed in adjacent grooves on each side of MPSR piston seals, they prevent cold flow or extrusion at high pressures.

PART NUMBER	LIST PRICE
MBNP-95X2.5X2.5	\$ 7.80
MBNP-100X2.5X2.5	7.80
MBNP-105X2.5X2.5	8.35
MBNP-110X2.5X2.5	8.35
MBNP-110X3X3	8.35

PART NUMBER	LIST PRICE
MBNP-115X2.5X2.5	\$ 7.98
MBNP-115X3X3	9.74
MBNP-120X3X3	9.74
MBNP-125X3X3	10.73
MBNP-130X3X3	10.73

PART NUMBER	LIST PRICE
MBNP-135X3X3	\$ 11.70
MBNP-140X3X3	12.68
MBNP-145X3X3	12.68
MBNP-150X3X3	13.65
MBNP-160X3X3	14.63

PART NUMBER	LIST PRICE
MBNP-170X3X3	\$ 15.60
MBNP-180X3X3	16.58
MBNP-190X3X3	18.52

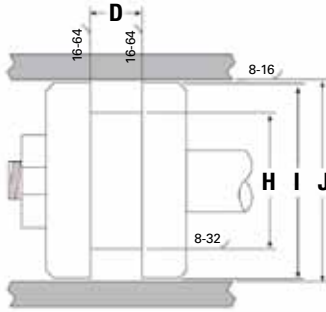
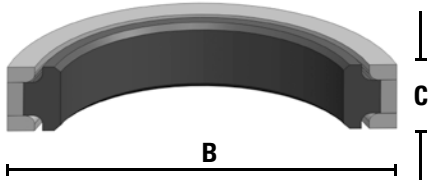
MCTS FOUR PIECE PISTON SEALS

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PISTON SEAL ASSEMBLIES

[SEAL INFORMATION]

MCTS



MATERIAL

PTFE PISTON SEAL
NYLON BACK-UP
BUNA-N ENERGIZER

TEMPERATURE RANGE

-20° TO +225° F

PRESSURE RANGE

0 TO 6,000 PSI

PART NUMBER

(Prefix) - (B) X (H) X (C)

They consist of a filled PTFE cap energized by a T-shaped nitrile energizer and backed by two split nylon back-up rings. These seals offer low friction, high pressure operating conditions.

PART NUMBER	B NOM. O.D.	C NOM. HT.	D GROOVE WIDTH	H GROOVE DIAMETER	I PISTON DIAMETER	J BORE DIAMETER	LIST PRICE
MCTS-50X36X8.5	50	8.5	9.0 +0.20/-0.00	36.00 +0.000/-0.062	50.00-0.025/-0.064	50.00 +0.062/-0.000	\$ 80.02
MCTS-50X40X7.5	50	7.5	8.0 +0.20/-0.00	40.00 +0.000/-0.062	50.00-0.025/-0.064	50.00 +0.062/-0.000	40.90
MCTS-55X41X8.5	55	8.5	9.0 +0.20/-0.00	41.00 +0.000/-0.062	55.00-0.030/-0.076	55.00 +0.074/-0.000	44.07
MCTS-56X45X8	56	8.0	8.5 +0.20/-0.00	45.00 +0.000/-0.062	56.00-0.030/-0.076	56.00 +0.074/-0.000	48.91
MCTS-60X46X8.5	60	8.5	9.0 +0.20/-0.00	46.00 +0.000/-0.062	60.00-0.030/-0.076	56.00 +0.074/-0.000	39.81
MCTS-63X48X10.5	63	10.5	11.0 +0.20/-0.00	48.00 +0.000/-0.062	63.00-0.030/-0.076	63.00 +0.074/-0.000	33.35
MCTS-63X53X7.5	63	7.5	8.0 +0.20/-0.00	53.00 +0.000/-0.074	63.00-0.030/-0.076	63.00 +0.074/-0.000	57.76
MCTS-65X50X10.5	65	10.5	11.0 +0.20/-0.00	50.00 +0.000/-0.074	65.00-0.030/-0.076	65.00 +0.074/-0.000	23.84
MCTS-65X51X8.5	65	8.5	9.0 +0.20/-0.00	51.00 +0.000/-0.074	65.00-0.030/-0.076	65.00 +0.074/-0.000	62.28
MCTS-70X55X10.5	70	10.5	11.0 +0.20/-0.00	55.00 +0.000/-0.074	70.00-0.030/-0.076	70.00 +0.074/-0.000	39.81
MCTS-70X55X12	70	12.0	12.5 +0.20/-0.00	55.00 +0.000/-0.074	70.00-0.030/-0.076	70.00 +0.074/-0.000	55.82
MCTS-70X60X7.5	70	7.5	8.0 +0.20/-0.00	60.00 +0.000/-0.074	70.00-0.030/-0.076	70.00 +0.074/-0.000	38.76
MCTS-75X60X10.5	75	10.5	11.0 +0.20/-0.00	60.00 +0.000/-0.074	75.00-0.030/-0.076	75.00 +0.074/-0.000	38.59
MCTS-75X63X8.6	75	8.6	9.1 +0.20/-0.00	63.00 +0.000/-0.074	75.00-0.030/-0.076	75.00 +0.074/-0.000	41.45
MCTS-80X65X10.5	80	10.5	11.0 +0.20/-0.00	65.00 +0.000/-0.074	80.00-0.030/-0.076	80.00 +0.074/-0.000	43.27
MCTS-80X65X11.5	80	11.5	12.0 +0.20/-0.00	65.00 +0.000/-0.074	80.00-0.030/-0.076	80.00 +0.074/-0.000	43.00
MCTS-85X70X10.5	85	10.5	11.0 +0.20/-0.00	70.00 +0.000/-0.074	85.00-0.036/-0.090	85.00 +0.087/-0.000	49.73
MCTS-90X75X10.5	90	10.5	11.0 +0.20/-0.00	70.00 +0.000/-0.074	90.00-0.036/-0.090	90.00 +0.087/-0.000	49.73
MCTS-90X75X11.5	90	11.5	12.0 +0.20/-0.00	75.00 +0.000/-0.074	90.00-0.036/-0.090	90.00 +0.087/-0.000	46.97
MCTS-90X75X12.5	90	12.5	13.0 +0.20/-0.00	75.00 +0.000/-0.074	90.00-0.036/-0.090	90.00 +0.087/-0.000	63.46
MCTS-95X80X10.5	95	10.5	11.0 +0.20/-0.00	80.00 +0.000/-0.074	95.00-0.036/-0.090	95.00 +0.087/-0.000	49.73
MCTS-95X80X12	95	12.0	12.5 +0.20/-0.00	80.00 +0.000/-0.074	95.00-0.036/-0.090	95.00 +0.087/-0.000	64.18
MCTS-100X85X12	100	12.0	12.5 +0.20/-0.00	85.00 +0.000/-0.087	100.00-0.036/-0.090	100.00 +0.087/-0.000	53.71
MCTS-105X90X12	105	12.0	12.5 +0.20/-0.00	90.00 +0.000/-0.087	105.00-0.036/-0.090	105.00 +0.087/-0.000	55.03
MCTS-110X95X12	110	12.0	12.5 +0.20/-0.00	95.00 +0.000/-0.087	110.00-0.036/-0.090	110.00 +0.087/-0.000	56.06
MCTS-115X100X12	115	12.0	12.5 +0.20/-0.00	100.00 +0.000/-0.087	115.00-0.036/-0.090	115.00 +0.087/-0.000	61.92
MCTS-120X100X15.5	120	15.5	16.0 +0.20/-0.00	100.00 +0.000/-0.087	120.00-0.036-0.090	120.00 +0.087/-0.000	82.25



METRIC

MCTS FOUR PIECE PISTON SEALS





PART NUMBER	B NOM. O.D.	C NOM. HT.	D GROOVE WIDTH	H GROOVE DIAMETER	I PISTON DIAMETER	J BORE DIAMETER	LIST PRICE
MCTS-120X105X12	120	12.0	12.5 +0.20/-0.00	105.00 +0.000/-0.087	120.00-0.036/-0.090	120.00 +0.087/-0.000	\$ 58.42
MCTS-125X102X15.5	125	15.5	16.0 +0.20/-0.00	102.00 +0.000/-0.087	125.00-0.043/-0.106	125.00 +0.100/-0.000	64.93
MCTS-125X105X15.5	125	15.5	16.0 +0.20/-0.00	105.00 +0.000/-0.087	125.00-0.043/-0.106	125.00 +0.100/-0.000	88.91
MCTS-125X110X12	125	12.0	12.5 +0.20/-0.00	110.00 +0.000/-0.087	125.00-0.043/-0.106	125.00 +0.100/-0.000	72.61
MCTS-130X107X15.5	130	15.5	16.0 +0.20/-0.00	107.00 +0.000/-0.087	130.00-0.043/-0.106	130.00 +0.100/-0.000	70.17
MCTS-130X110X15.5	130	15.5	16.0 +0.20/-0.00	110.00 +0.000/-0.087	130.00-0.043/-0.106	130.00 +0.100/-0.000	81.45
MCTS-130X115X12.5	130	12.5	13.0 +0.20/-0.00	115.00 +0.000/-0.087	130.00-0.043/-0.106	130.00 +0.100/-0.000	75.73
MCTS-135X112X15.5	135	15.5	16.0 +0.20/-0.00	112.00 +0.000/-0.087	135.00-0.043/-0.106	135.00 +0.100/-0.000	74.67
MCTS-140X117X15.5	140	15.5	16.0 +0.20/-0.00	117.00 +0.000/-0.087	140.00-0.043/-0.106	140.00 +0.100/-0.000	79.47
MCTS-140X120X15.5	140	15.5	16.0 +0.20/-0.00	120.00 +0.000/-0.087	140.00-0.043/-0.106	140.00 +0.100/-0.000	100.81
MCTS-140X120X18.5	140	18.5	19.0 +0.20/-0.00	120.00 +0.000/-0.087	140.00-0.043/-0.106	140.00 +0.100/-0.000	95.00
MCTS-145X122X15.5	145	15.5	16.0 +0.20/-0.00	122.00 +0.000/-0.100	145.00-0.043/-0.106	145.00 +0.100/-0.000	80.04
MCTS-150X127X15.5	150	15.5	16.0 +0.20/-0.00	127.00 +0.000/-0.100	150.00-0.043/-0.106	150.00 +0.100/-0.000	86.44
MCTS-150X130X18.5	150	18.5	19.0 +0.20/-0.00	130.00 +0.000/-0.100	150.00-0.043/-0.106	150.00 +0.100/-0.000	114.12
MCTS-155X132X15.5	155	15.5	16.0 +0.20/-0.00	132.00 +0.000/-0.100	155.00-0.043/-0.106	155.00 +0.100/-0.000	82.55
MCTS-160X137X15.5	160	15.5	16.0 +0.20/-0.00	137.00 +0.000/-0.100	160.00-0.043/-0.106	160.00 +0.100/-0.000	94.25
MCTS-160X140X15.5	160	15.5	16.0 +0.20/-0.00	140.00 +0.000/-0.100	160.00-0.043/-0.106	160.00 +0.100/-0.000	90.16
MCTS-160X140X18.5	160	18.5	19.0 +0.20/-0.00	140.00 +0.000/-0.100	160.00-0.043/-0.106	160.00 +0.100/-0.000	117.77
MCTS-160X145X12.5	160	12.5	13.0 +0.20/-0.00	145.00 +0.000/-0.100	160.00-0.043/-0.106	160.00 +0.100/-0.000	140.47
MCTS-165X142X15.5	165	15.5	16.0 +0.20/-0.00	142.00 +0.000/-0.100	165.00-0.043/-0.106	165.00 +0.100/-0.000	108.58
MCTS-170X147X15.5	170	15.5	16.0 +0.20/-0.00	147.00 +0.000/-0.100	170.00-0.043/-0.106	170.00 +0.100/-0.000	111.26
MCTS-175X152X15.5	175	15.5	16.0 +0.20/-0.00	152.00 +0.000/-0.100	175.00-0.043/-0.106	175.00 +0.100/-0.000	105.80
MCTS-180X157X15.5	180	15.5	16.0 +0.20/-0.00	157.00 +0.000/-0.100	180.00-0.043/-0.106	180.00 +0.100/-0.000	102.91
MCTS-180X160X15.5	180	15.5	16.0 +0.20/-0.00	160.00 +0.000/-0.100	180.00-0.043/-0.106	180.00 +0.100/-0.000	100.94
MCTS-180X165X12.5BR	180	12.5	12.5 +0.20/+0.00	165.00 +0.000/-0.100	180.00-0.043/-0.106	180.00 +0.100/+0.000	168.96
MCTS-185X162X15.5	185	15.5	16.0 +0.20/-0.00	162.00 +0.000/-0.100	185.00-0.050/-0.122	185.00 +0.115/-0.000	107.60
MCTS-190X167X15.5	190	15.5	16.0 +0.20/-0.00	167.00 +0.000/-0.100	190.00-0.050/-0.122	190.00 +0.115/-0.000	129.90
MCTS-190X175X12.5	190	12.5	13.0 +0.20/-0.00	175.00 +0.000/-0.100	190.00-0.050/-0.122	190.00 +0.115/-0.000	212.99
MCTS-195X172X15.5	195	15.5	16.0 +0.20/-0.00	172.00 +0.000/-0.100	195.00-0.050/-0.122	195.00 +0.115/-0.000	128.18
MCTS-200X177X15.5BR	200	15.5	16.0 +0.20/-0.00	177.00 +0.000/-0.100	200.00-0.050/-0.122	200.00 +0.115/-0.000	121.52
MCTS-200X180X18.5	200	18.5	19.0 +0.20/-0.00	180.00 +0.000/-0.100	200.00-0.050/-0.122	200.00 +0.115/-0.000	131.19
MCTS-210X187X15.5	210	15.5	16.0 +0.20/-0.00	187.00 +0.000/-0.115	210.00-0.050/-0.122	210.00 +0.115/-0.000	136.91
MCTS-220X197X15.5	220	15.5	16.0 +0.20/-0.00	197.00 +0.000/-0.115	220.00-0.050/-0.122	220.00 +0.115/-0.000	143.80
MCTS-225X202X15.5	225	15.5	16.0 +0.20/-0.00	202.00 +0.000/-0.115	225.00-0.050/-0.122	225.00 +0.115/-0.000	154.77
MCTS-230X207X15.5	230	15.5	16.0 +0.20/-0.00	207.00 +0.000/-0.115	230.00-0.050/-0.122	230.00 +0.115/-0.000	153.99
MCTS-230X210X16	230	16.0	16.5 +0.20/-0.00	210.00 +0.000/-0.115	230.00-0.050/-0.122	230.00 +0.115/-0.000	304.45
MCTS-240X217X15.5	240	15.5	16.0 +0.20/-0.00	217.00 +0.000/-0.115	240.00-0.050/-0.122	240.00 +0.115/-0.000	154.65
MCTS-250X222X17	250	17.0	17.5 +0.20/-0.00	222.00 +0.000/-0.115	250.00-0.050/-0.122	250.00 +0.115/-0.000	165.31
MCTS-260X232X17	260	17.0	17.5 +0.20/-0.00	232.00 +0.000/-0.115	260.00-0.056/-0.137	260.00 +0.130/-0.000	165.31
MCTS-260X240X16	260	16.0	16.5 +0.20/-0.00	240.00 +0.000/-0.115	260.00-0.056/-0.137	260.00 +0.130/-0.000	330.09
MCTS-280X252X17	280	17.0	17.5 +0.20/-0.00	252.00 +0.000/-0.130	280.00-0.056/-0.137	280.00 +0.130/-0.000	185.36
MCTS-300X272X17	300	17.0	17.5 +0.20/-0.00	272.00 +0.000/-0.130	300.00-0.056/-0.137	300.00 +0.130/-0.000	246.08



REPLACEMENT SPECIFIC PISTON SEALS FOR CATERPILLAR® EQUIPMENT®

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PISTON SEAL ASSEMBLIES

CTC [SEAL INFORMATION]				
PISTON SEAL TYPE	MATERIAL	TEMPERATURE RANGE	PRESSURE RANGE	
2 PIECE PISTON SEAL	PTFE PISTON SEAL NITRILE 70 ENERGIZER	-40° TO 220° F	0 TO 5,000 PSI	
2 PIECE STEP CUT PISTON SEAL	NYLON SEAL NITRILE 70 ENERGIZER	-40° TO 220° F	0 TO 5,000 PSI	
4 PIECE PISTON SEAL	PTFE PISTON SEAL NYLON BACK-UP BUNA-N ENERGIZER	-20° TO +225° F	0 TO 6,000 PSI	
5 PIECE PISTON SEAL	NBR 70 / FABRIC SEAL PTFE BACK-UP NYLON BEARING	-20° TO 190° F	0 TO 5,000 PSI	

These seals are specials for certain Caterpillar® cylinders. NOTE: Caterpillar® part numbers are used as a reference only. We do not imply that these parts are original equipment parts.

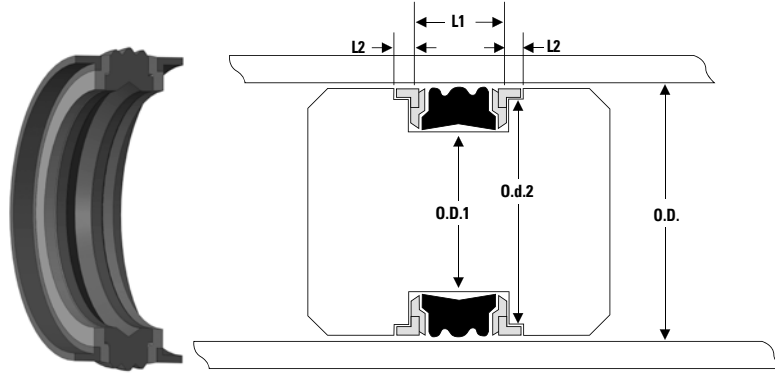
PART NUMBER	APPLICATION	BORE	LIST PRICE
CTC-1200890	2-Piece Piston Seal	75	\$ 15.54
CTC-1841687	2-Piece Step Cut Piston Seal	85	30.87
CTC-1846970	2-Piece Step Cut Piston Seal	75	55.88
CTC-9X7298	2-Piece Step Cut Piston Seal	100	71.70
CTC-9X7301	2-Piece Step Cut Piston Seal	110	85.10
CTC-9X3589	2-Piece Step Cut Piston Seal	115	39.29
CTC-9X3592	2-Piece Step Cut Piston Seal	120	85.10
CTC-9X3595	2-Piece Step Cut Piston Seal	130	85.10
CTC-2371934	2-Piece Step Cut Piston Seal	135	97.71
CTC-9X3598	2-Piece Step Cut Piston Seal	140	77.51
CTC-9X3601	2-Piece Step Cut Piston Seal	150	77.01
CTC-9X3604	2-Piece Step Cut Piston Seal	160	77.01

PART NUMBER	APPLICATION	BORE	LIST PRICE
CTC-9X3607	2-Piece Step Cut Piston Seal	170	\$ 82.93
CTC-9X3610	2-Piece Step Cut Piston Seal	180	82.93
CTC-1251286	2-Piece Step Cut Piston Seal	190	60.59
CTC-0996998	4-Piece Piston Seal	80	40.74
CTC-0996973	4-Piece Piston Seal	90	46.81
CTC-515928	4-Piece Piston Seal	100	50.55
CTC-0996922	4-Piece Piston Seal	110	52.77
CTC-A04601713	4-Piece Piston Seal	110	52.77
CTC-A04601719	4-Piece Piston Seal	160	93.05
CTC-A04601215	5-Piece Piston Seal	110	119.15
CTC-A04601216	5-Piece Piston Seal	120	119.15



METRIC

[SEAL INFORMATION]

MPSA

MATERIAL

NBR 70 SEAL
NYLON BACK-UP &
BEARING

TEMPERATURE RANGE

-22° TO +212° F

PRESSURE RANGE

0 TO 6,000 PSI

Designed to fit on one or two piece pistons, this piston seal employs a nitrile seal for high sealability, nylon split back-ups for extrusion resistance, and two split bearing rings. No further support bearings required.

PART NUMBER	O.D.	O.D.1	O.D.2	L1	L2	LIST PRICE	PART NUMBER	O.D.	O.D.1	O.D.2	L1	L2	LIST PRICE
MPSA-020	20	11	17	13.5	2.1	\$ 8.36	MPSA-055	55	39	50.4	18.4	6.4	\$ 16.98
MPSA-022	22	13	19	13.5	2.1	11.80	MPSA-055B	55	39	51	20.5	3.1	16.35
MPSA-025	25	15	22	12.5	4	8.36	MPSA-060	60	44	55.4	18.4	6.35	18.10
MPSA-025A	25	15	21.4	16.4	6.35	8.36	MPSA-060B	60	48	56	20.5	4.2	18.10
MPSA-025B	25	16	22	13.5	2.1	8.36	MPSA-060C	60	44	56	20.5	3.1	9.57
MPSA-028	28	19	25	13.5	2.1	8.36	MPSA-063	63	47	58.4	19.4	6.35	19.62
MPSA-030A	30	21	27	13.5	2.1	8.36	MPSA-063A	63	51	59	20.50	4.2	19.62
MPSA-032	32	22	27.4	16.3	6.35	8.36	MPSA-063B	63	53	60	12.5	4	19.62
MPSA-032A	32	22	27.4	12.5	4	8.36	MPSA-063C	63	47	59	20.5	3.1	28.51
MPSA-032B	32	24	29	10	4	12.19	MPSA-063E	63	47	58.4	18.4	6.35	10.75
MPSA-032C	32	22	28	15.5	2.6	12.19	MPSA-065	65	50	60.4	18.4	6.35	19.66
MPSA-032D	32	24	28	15.5	3.2	12.19	MPSA-065A	65	49	61	20.5	3.1	12.26
MPSA-035	35	25	31.4	16.4	6.35	9.66	MPSA-070	70	50	64.2	22.4	6.35	20.11
MPSA-035A	35	25	31	15.5	2.6	13.53	MPSA-070A	70	58	66	20.50	4.2	20.11
MPSA-040D	40	26	36	15.5	2.6	14.42	MPSA-070B	70	54	66	20.5	3.1	24.80
MPSA-040E	40	30	35.4	16.4	6.35	14.42	MPSA-070C	70	55	66	20	5	25.40
MPSA-040F	40	30	37	12.5	4	14.42	MPSA-075	75	55	69.2	22.4	6.35	20.88
MPSA-040G	40	32	36	15.5	3.2	14.42	MPSA-075A	75	59	71	20.5	3.1	17.21
MPSA-040H	40	32	37	10	4	15.80	MPSA-080	80	60	74.2	22.4	6.35	22.79
MPSA-042	42	28	38	15.5	2.6	14.63	MPSA-080A	80	66	76	22.5	5.2	22.79
MPSA-045	45	35	40.4	16.4	6.35	14.97	MPSA-080B	80	65	76	20	5	19.71
MPSA-045A	45	29	40.4	18.4	6.35	15.01	MPSA-080C	80	62	76	22.5	3.6	22.79
MPSA-045B	45	31	41	15.5	2.6	15.01	MPSA-080D	80	60	75	25	6.35	22.79
MPSA-050	50	34	45.4	18.4	6.35	15.35	MPSA-085	85	65	79.2	22.4	6.35	23.68
MPSA-050A	50	38	46	20.5	4.2	15.35	MPSA-090	90	70	84.2	22.4	6.35	26.36
MPSA-050B	50	40	47	12.5	4	15.35	MPSA-090B	90	76	86	22.5	5.2	26.36
MPSA-050D	50	34	46	20.5	3.1	15.85	MPSA-090C	90	72	86	22.5	3.6	18.77

MPSA FIVE PIECE PISTON SEALS

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PISTON SEAL ASSEMBLIES

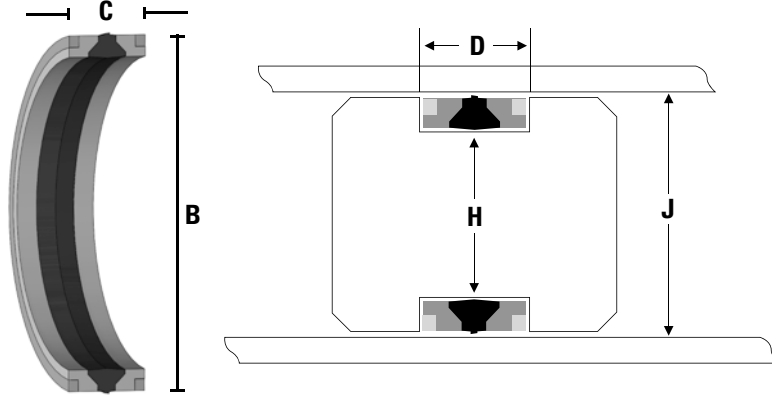
PART NUMBER	O.D.	O.D.1	O.D.2	L1	L2	LIST PRICE
MPSA-092	92	82	88	12.5	6.35	\$ 35.66
MPSA-095	95	75	89.15	22.4	6.35	36.86
MPSA-100	100	75	93.2	22.4	6.35	28.48
MPSA-100A	100	85	96	19.5	5	37.77
MPSA-100B	100	80	94.15	25	6.3	28.48
MPSA-100E	100	82	96	22.5	3.6	21.36
MPSA-100F	100	86	96	22.5	5.2	22.02
MPSA-105	105	80	98.1	22.5	6.35	29.93
MPSA-105A	105	92.5	98.8	14.3	6.35	43.12
MPSA-110	110	85	103.1	22.4	6.35	31.49
MPSA-110A	110	85	103	25	6.35	31.49
MPSA-110B	110	96	106	22.5	5.2	22.35
MPSA-110C	110	90	104.1	25.3	6.4	28.79
MPSA-110D	110	92	106	22.5	3.6	22.36
MPSA-110E	110	95	105	20	5	25.96
MPSA-115	115	90	108.1	22.4	6.35	32.73
MPSA-115B	115	97	111	22.5	3.6	33.54
MPSA-120	120	95	113.1	22.4	6.35	33.51
MPSA-120B	120	106	116	22.5	5.2	33.86
MPSA-125	125	100	118	25.4	6.35	34.11
MPSA-125A	125	105	120	24.5	6.35	59.57
MPSA-125E	125	103	121	26.5	5.1	35.65
MPSA-125F	125	108	121	26.5	7.2	35.65
MPSA-125G	125	100	116.8	45	12.7	100.37
MPSA-130	130	105	122.6	25.4	9.52	36.86
MPSA-135	135	110	128.1	25.4	6.35	37.53
MPSA-140	140	115	132.6	25.4	9.52	37.53
MPSA-140A	140	115	131.7	45	12.7	79.23
MPSA-140B	140	115	133	25.4	6.35	37.53
MPSA-140C	140	120	135	25	6.35	37.53
MPSA-140E	140	118	136	26.5	5.1	23.02
MPSA-140F	140	123	136	26.5	7.2	46.14
MPSA-145	145	120	137.6	25.4	9.52	119.78
MPSA-150	150	125	142.6	25.4	9.52	43.12
MPSA-150A	150	125	141.7	45	12.7	83.24
MPSA-150B	150	128	146	26.5	5.1	189.45
MPSA-150C	150	133	146	26.5	7.2	33.30

PART NUMBER	O.D.	O.D.1	O.D.2	L1	L2	LIST PRICE
MPSA-150D	150	125	143	25.5	6.35	\$ 32.27
MPSA-160	160	135	152.6	25.4	9.5	39.13
MPSA-160A	160	130	153	25.4	6.35	49.59
MPSA-160B	160	140	155	25	6.35	49.59
MPSA-160D	160	138	156	26.5	5.1	204.91
MPSA-160F	160	130	153	25.4	9.5	56.60
MPSA-160H	160	135	154	32	10	127.19
MPSA-165A	165	140	157.6	25.3	9.5	76.74
MPSA-170	170	145	161.7	25.3	12.7	56.30
MPSA-170A	170	140	163	25	6.35	121.67
MPSA-175	175	150	166.7	25	12.7	142.28
MPSA-175B	175	150	166.7	25.4	12.7	43.57
MPSA-180	180	155	171.7	25.4	12.7	65.01
MPSA-180A	180	150	173	35.4	6.35	65.01
MPSA-180B	180	158	176	26.5	5.1	188.89
MPSA-180C	180	163	176	26.5	7.2	61.53
MPSA-185	185	160	176.7	25.3	12.7	157.26
MPSA-190	190	165	181.7	25.4	12.7	72.38
MPSA-195	195	170	187.1	25.4	12.7	83.54
MPSA-200	200	175	191.6	25.4	12.7	30.43
MPSA-200A	200	170	193	35.4	6.35	59.27
MPSA-200B	200	175	191.6	45	12.7	125.48
MPSA-200D	200	170	193	36	12.7	60.61
MPSA-200F	200	180	196	31.5	9.2	35.52
MPSA-210	210	185	201.6	25.4	12.7	59.83
MPSA-220A	220	195	211.6	25.7	12.7	78.41
MPSA-225	225	200	216.6	25.4	12.7	36.91
MPSA-230	230	205	221.6	25.3	12.7	62.21
MPSA-240	240	215	231.6	25.3	12.7	44.48
MPSA-250A	250	225	246	31.5	6.6	69.75
MPSA-250B	250	230	249.4	31.5	9.2	62.09
MPSA-250C	250	220	243	35.3	6.4	121.80
MPSA-250D	250	225	241.6	25.3	12.7	42.24
MPSA-260	260	235	252.9	35.1	12.7	88.76
MPSA-280	280	250	273	36.3	10	128.81
MPSA-320	320	290	312	36	12.7	159.06



METRIC

[SEAL INFORMATION]

MHM

MATERIAL

 70A NITRILE SEAL
 POLYESTER BACK-UP
 ACETAL WEAR GUIDES

TEMPERATURE RANGE

-30° TO +230° F

PRESSURE RANGE

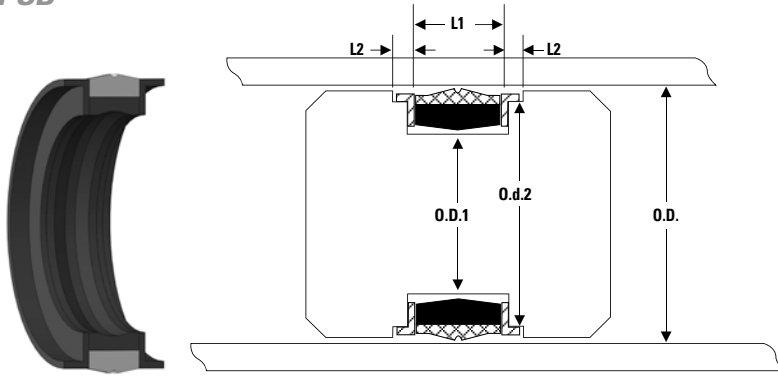
0 TO 7,500 PSI

MHM is a double acting piston seal, suitable for medium duty applications, and easy to install. It consists of five elements: 2-acetal outside anti-extrusion wear guides; 2-polyester elastomer backup rings; a nitrile 70A loader.

PART NUMBER	B NOM. O.D.	C NOM. HT.	D GROOVE WIDTH	H GROOVE DIAMETER	I PISTON DIAMETER	J BORE DIAMETER	LIST PRICE
MHM-60X45X22.5	60	22.5	22.50 +0.20/-0.00	45.00 +0.000/-0.062	59.80 +0.030/-0.076	60	\$ 18.24
MHM-70X55X22.5	70	22.5	22.50 +0.20/-0.00	55.00 +0.000/+0.074	69.80 +0.030/-0.076	70	22.18
MHM-80X65X22.5	80	22.5	22.50 +0.20/-0.00	65.00 +0.000/+0.074	79.80 +0.030/-0.076	80	26.09
MHM-90X70X30	90	30.0	30.00 +0.20/-0.00	70.00 +0.000/+0.074	89.80 +0.036/+0.090	90	29.49
MHM-100X80X30	100	30.0	30.00 +0.20/-0.00	80.00 +0.000/+0.087	99.80 +0.036/+0.090	100	32.15
MHM-110X90X30	110	30.0	30.00 +0.20/-0.00	90.00 +0.000/+0.087	109.80 +0.036/+0.090	110	34.93

[SEAL INFORMATION]

MPSB



MATERIAL

NBR 70 / FABRIC OD
NBR 70 SEAL ID
ACETAL BEARING

TEMPERATURE RANGE

-22° TO +212° F

PRESSURE RANGE

0 TO 5,000 PSI

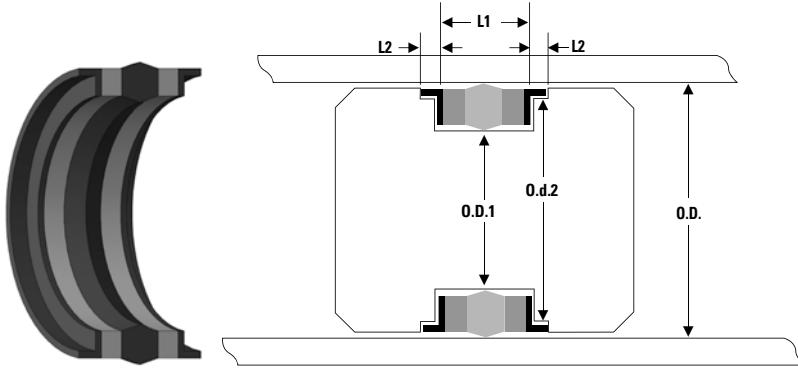
Incorporating a nitrile / fabric seal with two split bearings, this assembly affords low friction and high strength for one or two piece pistons.

PART NUMBER	O.D.	O.D.1	O.D.2	L1	L2	LIST PRICE
MPSB-032B	32	24	29	10.0	3.2	\$ 13.74
MPSB-035	35	27	31	15.5	3.2	19.94
MPSB-045	45	37	41	15.5	3.2	20.70
MPSB-050A	50	38	46	20.5	4.2	13.04
MPSB-055	55	43	51	20.5	4.2	19.38
MPSB-060B	60	48	56	20.5	4.2	22.35
MPSB-070	70	58	66	20.5	4.2	20.48
MPSB-080	80	66	76	22.5	5.2	26.18
MPSB-090B	90	76	86	22.5	5.2	21.25

PART NUMBER	O.D.	O.D.1	O.D.2	L1	L2	LIST PRICE
MPSB-100F	100	86	96	22.5	5.2	\$ 29.01
MPSB-110B	110	96	106	22.5	5.2	39.22
MPSB-120B	120	106	116	22.5	5.2	33.30
MPSB-125F	125	108	121	26.5	7.2	50.06
MPSB-150	150	133	146	26.5	7.2	34.50
MPSB-160	160	143	156	26.5	7.2	72.30
MPSB-180	180	163	176	26.5	7.2	125.59
MPSB-200	200	180	196	31.5	9.2	107.46



[SEAL INFORMATION]

MPSA-58

MATERIAL

 NBR 70 / FABRIC SEAL
 ACETAL BEARING/
 BACK-UP

TEMPERATURE RANGE

-22° TO +212° F

PRESSURE RANGE

0 TO 5,000 PSI

With nitrile seal bonded on each side by fabric material, it also incorporates 2 full depth "L" bearings to form a very strong assembly. This seal requires a two piece piston.

PART NUMBER	O.D.	O.D.1	O.d.2	L1	L2	LIST PRICE
MPSA-58-040	40	25	34.8	24	6	\$ 20.16
MPSA-58-050A	50	35	44.8	24	6	13.69
MPSA-58-55	55	40	49.8	24	5.9	16.45
MPSA-58-060	60	40	53.8	31	7	18.18
MPSA-58-63	63	43	56.8	31	7	26.26
MPSA-58-063B	63	48	57.8	24	6	16.98
MPSA-58-070	70	50	63.8	31	7	24.75
MPSA-58-080A	80	60	73.8	31	7	22.46
MPSA-58-090A	90	70	83.8	31	7	28.04
MPSA-58-100	100	80	93.8	31	7	26.18
MPSA-58-100C	100	86	96	22.5	5.2	33.41
MPSA-58-110	110	90	103.8	31	7	47.65
MPSA-58-115	115	95	108.9	31	7	65.61

PART NUMBER	O.D.	O.D.1	O.d.2	L1	L2	LIST PRICE
MPSA-58-120	120	100	113.8	31	7	\$ 36.15
MPSA-58-125A	125	100	118.8	38	9.5	38.23
MPSA-58-125D	125	108	121	26.5	7.2	41.10
MPSA-58-140	140	120	133.8	31	7	68.00
MPSA-58-140B	140	120	133.8	31	7	55.75
MPSA-58-150	150	120	143.9	44	9.5	159.71
MPSA-58-160C	160	140	153.9	25	6.35	111.15
MPSA-58-160A	160	140	153.9	31	7	55.81
MPSA-58-180	180	163	176	26.5	7.2	60.42
MPSA-58-190	190	160	183.9	44	8.5	76.07
MPSA-58-200	200	170	193	35.4	6.35	90.45
MPSA-58-220	220	200	216	31.5	9.5	84.64
MPSA-58-220A	220	200	213.85	31.5	7	200.06

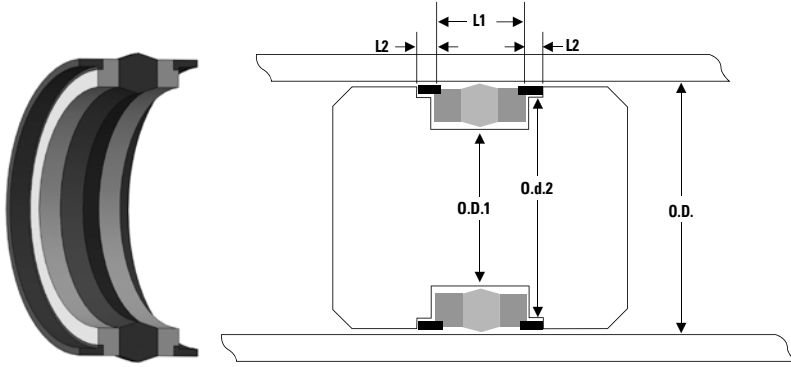
MPSA-59 THREE PIECE PISTON SEALS

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PISTON SEAL ASSEMBLIES

[SEAL INFORMATION]

MPSA-59



MATERIAL

NBR 70 / FABRIC SEAL
ACETAL BEARING/
BACK-UP

TEMPERATURE RANGE

-22° TO +212° F

PRESSURE RANGE

0 TO 5,000 PSI

This style is designed for two piece pistons. The seal is a molded Nitrile rubber element with bonded rubberized fabric reinforcements and two anti-extrusion polyacetal bearings.

PART NUMBER	O.D.	O.D.1	O.d.2	L1	L2	LIST PRICE
MPSA-59-030	30	17	26.5	15.4	6.35	\$ 18.75
MPSA-59-040	40	24	35.4	18	6.35	14.98
MPSA-59-050	50	34	45.4	18	6.35	15.88
MPSA-59-055	55	39	51.0	18	6.35	19.81
MPSA-59-060	60	44	55.4	18	6.35	19.71
MPSA-59-60A	60	44	56.0	20	6.35	22.18
MPSA-59-063	63	47	58.4	19	6.35	22.08
MPSA-59-065	65	50	60.4	18	6.35	22.77
MPSA-59-070	70	50	64.15	22	6.35	22.99
MPSA-59-070A	70	50	64.2	25	6.35	21.48
MPSA-59-075	75	55	69.15	22	6.35	31.20
MPSA-59-075A	75	50	64.2	25	6.35	38.68
MPSA-59-080	80	60	74.15	22	6.35	22.20
MPSA-59-080A	80	60	74.15	31	6.35	22.43
MPSA-59-080B	80	60	74.2	25.4	6.35	22.86
MPSA-59-085	85	65	79.15	22	6.35	22.99

PART NUMBER	O.D.	O.D.1	O.d.2	L1	L2	LIST PRICE
MPSA-59-090	90	70	84.15	22	6.35	\$ 27.38
MPSA-59-100	100	80	94.15	25	6.35	35.73
MPSA-59-100A	100	75	93.15	22	6.35	32.44
MPSA-59-100C	100	80	94.2	25.4	6.35	27.18
MPSA-59-110	110	90	104.1	25	6.35	28.17
MPSA-59-120	120	100	114.1	25	6.35	34.48
MPSA-59-125	125	100	118.1	25	6.35	49.81
MPSA-59-125A	125	100	118.1	32.4	6.35	38.50
MPSA-59-130	130	105	123	25	6.35	43.76
MPSA-59-140	140	115	133	25.4	6.35	53.88
MPSA-59-145	145	120	138.3	25.4	6.35	38.21
MPSA-59-160	160	130	153	25.4	6.35	62.41
MPSA-59-170	170	140	163	25.4	6.35	48.36
MPSA-59-180	180	160	173	31.4	6.35	95.11
MPSA-59-210	210	180	202.7	32.4	6.35	82.97



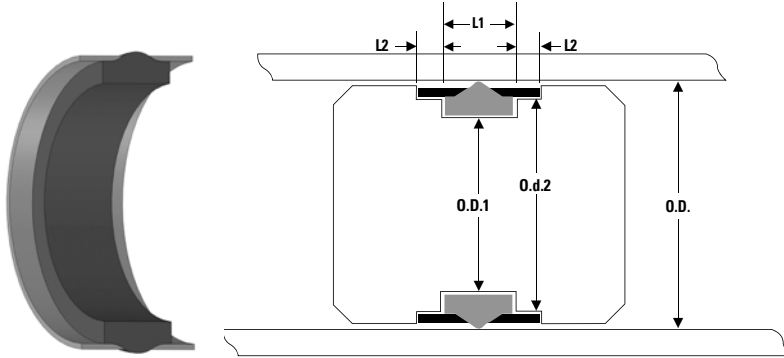
METRIC



MPSA-65 THREE PIECE PISTON SEALS

[SEAL INFORMATION]

MPSA-65



MATERIAL

NITRILE SEAL /
ACETAL BEARING

TEMPERATURE RANGE

-22° TO +212° F

PRESSURE RANGE

0 TO 3,000 PSI

Consisting of a nitrile seal and two split acetal bearings, this assembly is used in light duty applications and can be installed on one or two piece pistons.

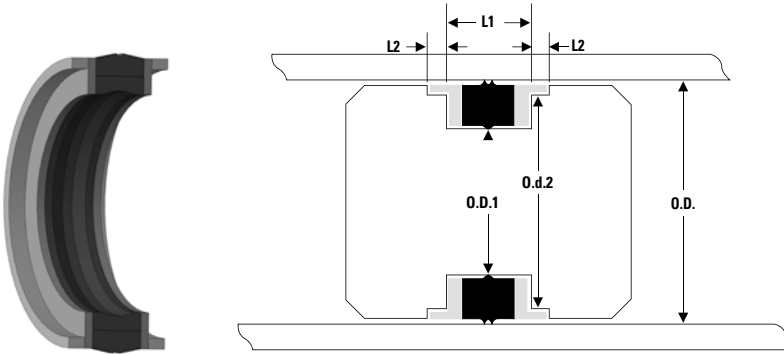
PART NUMBER	O.D.	O.D.1	O.d.2	L1	L2	LIST PRICE
MPSA-65-025	25	17.5	21.3	8.5	3.25	\$ 6.59
MPSA-65-040	40	30	35.5	11	4	8.41
MPSA-65-050	50	40	45.5	11	4	8.65
MPSA-65-063	63	53	58.5	11	4	11.16

PART NUMBER	O.D.	O.D.1	O.d.2	L1	L2	LIST PRICE
MPSA-65-080	80	70	75.5	11	4	\$ 15.59
MPSA-65-100	100	87	93.8	14	6	31.19
MPSA-65-125	125	112	118.8	14	6	39.60
MPSA-65-125B	125	112	107.4	14	6	23.13

MNCF FIVE PIECE PISTON SEALS

[SEAL INFORMATION]

MNCF



MATERIAL

NITRILE SEAL /
ACETAL BEARING

TEMPERATURE RANGE

-22° TO +190° F

PRESSURE RANGE

0 TO 5,000 PSI

For two piece pistons, this seal incorporates a nitrile / fabric seal with two split bearings.

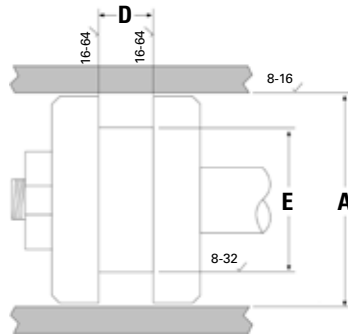
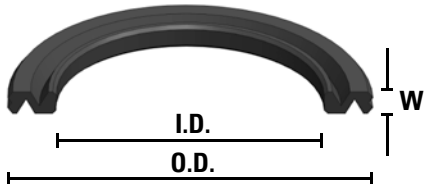
PART NUMBER	O.D.	O.D.1	O.d.2	L1	L2	LIST PRICE
MNCF-070	70	56	61.5	22	7.95	\$ 76.12
MNCF-080	80	66	71.5	22	7.95	82.47
MNCF-090	90	76	81.5	22	7.95	88.80

PART NUMBER	O.D.	O.D.1	O.d.2	L1	L2	LIST PRICE
MNCF-100	100	86	91.5	22	9.95	\$ 101.50
MNCF-110	110	96	101.5	22	9.95	114.18
MNCF-120	120	106	111.5	22	9.95	114.18



[SEAL INFORMATION]

MPK



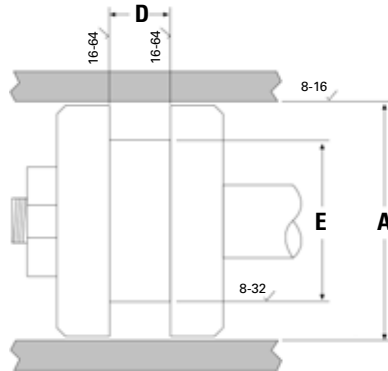
MATERIAL	70A NBR
TEMPERATURE RANGE	-20° TO +220° F
PRESSURE RANGE	175 PSI
SPEED	1.5 FT/SEC
PART NUMBER	(Prefix) - (Bore)

MPK is designed as a piston seal suitable for pneumatic cylinders and valves. MPK seals are useful in short stroke applications because of its ease of assembly and low friction capabilities.

PART NUMBER	O.D.	I.D.	W	A BORE DIA.	D - GROOVE WIDTH TOL. +0.2/-0	E - GROOVE DIA. TOL. +0.1/-0	LIST PRICE
MPK-012	12	7	2.0	12	2.5	7	\$ 1.58
MPK-016	16	9	2.1	16	2.5	9	1.88
MPK-020	20	13	2.1	20	2.5	13	2.08
MPK-025	25	18	2.1	25	2.5	18	2.47
MPK-028	28	19	2.5	28	3.0	19	2.52
MPK-030	30	21	2.5	30	3.0	21	2.52
MPK-032	32	23	2.5	32	3.0	23	2.68
MPK-035	35	26	2.5	35	3.0	26	2.79
MPK-040	40	31	2.5	40	3.0	31	2.98
MPK-045	45	36	2.5	45	3.0	36	3.30
MPK-050	50	41	2.5	50	3.0	41	3.70
MPK-060	60	44	3.4	60	4.0	44	4.13
MPK-063	63	51	3.4	63	4.0	51	4.19
MPK-070	70	58	3.4	70	4.0	58	4.47
MPK-080	80	68	3.4	80	4.0	68	4.92
MPK-100	100	88	3.4	100	4.0	88	5.42
MPK-125	125	110	4.4	125	5.0	110	7.11



[SEAL INFORMATION]

MPH

MATERIAL

70A NBR

TEMPERATURE RANGE

-20° TO +220° F

PRESSURE RANGE

0 TO 175 PSI

PART NUMBER

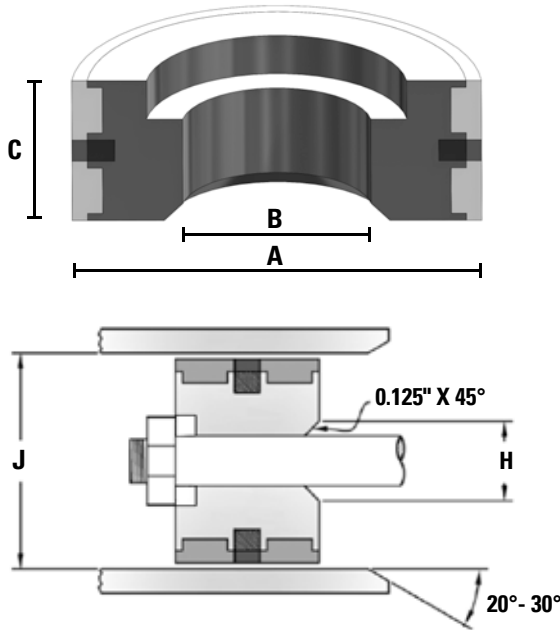
(Prefix) - (Bore Diameter)

MPH is a double-acting pneumatic piston seal designed to work in low axial height housings. The solid body molded in 70 Durometer nitrile provides superior low-pressure sealing.

PART NUMBER	A BORE DIAMETER	D GROOVE WIDTH	E GROOVE DIAMETER	LIST PRICE
MPH-032	32 +0.160/0	3.2 +0.200/0	24 0/-0.052	\$ 5.11
MPH-040	40 +0.160/0	3.2 +0.200/0	32 0/-0.062	5.62
MPH-050	50 +0.160/0	4 +0.200/0	40 0/-0.062	7.43
MPH-063	63 +0.190/0	4 +0.200/0	53 0/-0.074	8.33
MPH-080	80 +0.190/0	6 +0.200/0	65 0/-0.074	9.73
MPH-100	100 +0.220/0	6 +0.200/0	85 0/-0.087	10.84

[SEAL INFORMATION]

UP



MATERIAL	STEEL, NYLON, NBR, PTFE
TEMPERATURE RANGE	-40° TO +230° F
PRESSURE RANGE	0 TO 5,000 PSI
PART NUMBER	(Prefix) - (OEM#)

Designed with the cylinder rebuilder in mind, are a single assembly, machined to exact dimensions, and comprised of a high strength steel piston, a nylon bearing, a rubber loader and a filled PTFE extrusion ring. These pistons simplify the rebuilding process with improved quality and increased durability due to the substitution of multiple components in the groove by the single unitized assembly.

JOHN DEERE

PART NUMBER	A NOMINAL DIAMETER	A FINISHED DIAMETER	B NOMINAL I.D.	H HOLE DIAMETER	C LENGTH/WIDTH	COUNTER BORE DEPTH	COUNTER BORE DIA	LIST PRICE
UP-AH176244	50 MM	49.96/49.91	12.75 MM	12.79/12.71	26.54/26.04	10.26/9.76	20.05/19.99	\$ 66.14
UP-AH138200	50 MM	49.96/49.91	16.50 MM	16.56/16.46	31.24/30.75	10.26/9.75	25.05/24.98	66.14
UP-AH174930	50 MM	49.96/49.91	20.50 MM	20.55/20.47	31.24/30.75	10.26/9.76	32.02/31.98	66.14
UP-AH135785	56 MM	55.88/55.78	16.50 MM	16.59/16.43	31.24/30.75	10.26/9.76	25.04/24.97	74.46
UP-AH140072	56 MM	55.88/55.78	20.50 MM	20.58/20.42	31.24/30.75	10.26/9.76	32.02/31.98	74.46
UP-AH166940	56 MM	55.88/55.78	20.50 MM	20.58/20.42	31.24/30.75	10.26/9.76	36.05/35.98	79.31
UP-AH172598	56 MM	55.88/55.78	22.50 MM	22.58/22.42	31.24/30.75	10.26/9.76	32.02/31.98	79.31
UP-AH166138	63 MM	62.98/62.93	22.50 MM	22.58/22.42	31.24/30.75	10.26/9.76	36.05/35.98	102.06
UP-AH137177	63 MM	62.98/62.93	22.50 MM	22.58/22.42	31.24/30.75	10.26/9.76	40.04/39.96	102.06
UP-AH142159	63 MM	62.98/62.93	20.50 MM	20.58/20.42	31.24/30.75	10.26/9.76	32.02/31.98	102.06
UP-AH160647	63 MM	62.98/62.93	22.50 MM	22.58/22.42	31.24/30.75	10.26/9.76	45.05/44.98	102.06
UP-AH228448	63 MM	62.98/62.93	20.50 MM	24.56/24.46	31.24/30.75	10.26/9.76	36.05/35.98	102.06
UP-RE29383	63 MM	62.98/62.93	22.00 MM	22.20/22.15	31.24/30.75	N/A	N/A	102.06
UP-AH165962	70 MM	69.85/69.75	27.50 MM	27.58/27.42	36.25/35.74	15.24/14.73	45.06/44.96	137.52
UP-AH158623	70 MM	69.85/69.75	24.50 MM	24.56/24.46	36.25/35.74	15.24/14.73	40.04/39.96	137.52
UP-AH172352	70 MM	69.85/69.75	22.50 MM	22.58/22.42	36.25/35.74	15.24/14.73	36.05/35.98	137.52
UP-RE34084	70 MM	69.85/69.75	24.50 MM	24.56/24.46	36.25/35.74	15.24/14.73	45.06/44.96	137.52
UP-AH227867	70 MM	69.85/69.75	27.50 MM	27.58/27.42	36.25/35.74	14.30/13.80	40.04/39.96	137.52
UP-AH214293	70 MM	69.97/69.92	27.50 MM	27.58/27.42	36.25/35.74	15.24/14.73	40.04/39.96	137.52
UP-AH139078	80 MM	79.86/79.76	24.50 MM	24.56/24.46	29.08/28.96	9.75/9.25	40.04/39.96	158.76



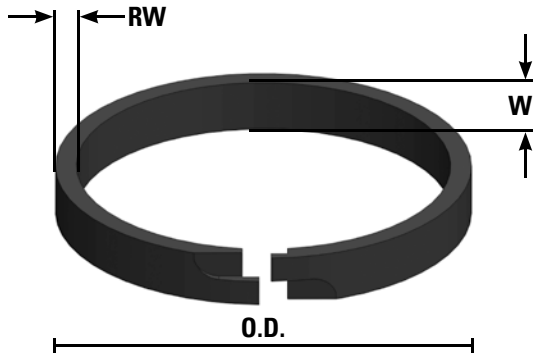
PART NUMBER	A NOMINAL DIAMETER	A FINISHED DIAMETER	B NOMINAL I.D.	H HOLE DIAMETER	C LENGTH/WIDTH	COUNTER BORE DEPTH	COUNTER BORE DIA	LIST PRICE
UP-RE34085	80 MM	79.86/79.76	27.50 MM	27.58/27.42	40.75/40.25	19.75/19.25	40.04/39.96	\$ 158.76
UP-AH162223	80 MM	79.86/79.76	27.50 MM	27.58/27.42	30.75/30.25	9.75/9.25	45.06/44.96	158.76
UP-AH165826	80 MM	79.86/79.76	27.50 MM	27.58/27.42	40.75/40.25	15.24/14.73	50.05/49.98	158.76
UP-AH173410	80 MM	79.86/79.76	30.50 MM	30.59/30.43	40.75/40.25	15.24/14.73	50.05/49.98	158.76
UP-RE33968	80 MM	79.86/79.76	27.50 MM	27.58/27.42	40.75/40.25	19.75/19.25	45.06/44.96	158.76
UP-AH163946	80 MM	79.86/79.76	27.50 MM	27.58/27.42	40.75/40.25	19.75/19.25	50.05/49.98	158.76
UP-AH136453	90 MM	89.86/89.76	27.50 MM	27.58/27.42	45.75/45.25	20.25/19.75	45.05/44.98	191.22
UP-AH169436	90 MM	89.86/89.76	30.50 MM	30.59/30.43	45.75/45.25	20.25/19.75	45.05/44.98	191.22
UP-AH169827	90 MM	89.86/89.76	26.00 MM	26.08/25.92	45.75/45.25	20.25/19.75	56.05/55.98	191.22
UP-AH168951	90 MM	89.86/89.76	27.50 MM	27.58/27.42	45.75/45.25	20.25/19.75	40.04/39.96	191.22
UP-AH141183	90 MM	89.86/89.76	30.50 MM	30.59/30.43	45.75/45.25	20.25/19.75	50.05/49.98	191.22
UP-AH205062	90 MM	89.86/89.76	30.50 MM	30.59/30.43	45.75/45.25	20.25/19.75	50.05/49.98	191.22
UP-AH166637	100 MM	99.97/99.92	33.50 MM	33.63/33.37	45.75/45.25	20.25/19.75	56.050/55.975	226.43
UP-AH159034	100 MM	99.97/99.92	30.50 MM	30.80/30.42	45.75/45.25	20.25/19.75	50.05/49.98	226.43
UP-AH164620	100 MM	99.97/99.92	30.75 MM	33.84/33.58	45.75/45.25	20.25/19.75	50.05/49.98	226.43
UP-AH169826	100 MM	99.97/99.92	26.00 MM	26.08/25.92	45.75/45.25	20.25/19.75	50.05/49.98	226.43
UP-AH168884	115 MM	114.97/114.92	36.50 MM	36.63/36.37	45.75/45.25	20.25/19.75	56.050/55.975	271.88
UP-AH176042	115 MM	114.97/114.92	36.50 MM	36.63/36.37	45.75/45.25	20.25/19.75	63.05/62.97	271.88
UP-AH209042	115 MM	114.97/114.92	36.50 MM	36.63/36.37	45.75/45.25	20.25/19.75	50.05/49.98	271.88
UP-AH167446	125 MM	124.97/124.89	36.50 MM	36.63/36.37	45.75/45.25	15.24/14.73	70.05/69.97	359.33
UP-AH163953	125 MM	124.97/124.89	42.50 MM	42.63/42.47	45.75/45.25	20.25/19.75	63.05/62.97	359.33
UP-AH169800	125 MM	124.97/124.89	30.50 MM	30.64/30.48	55.25/54.75	20.25/19.75	50.05/49.98	359.33

NEW HOLLAND

PART NUMBER	A NOMINAL DIAMETER	A FINISHED DIAMETER	B NOMINAL I.D.	H HOLE DIAMETER	C LENGTH/WIDTH	COUNTER BORE DEPTH	COUNTER BORE DIA	LIST PRICE
UP-83962615	70 MM	69.85/69.75	24.00 MM	24.25/24.15	29.06/28.96	7.24/6.73	50.14/50.04	\$ 144.38
UP-87432513	80 MM	79.86/79.76	24.00 MM	24.25/24.15	29.08/28.96	15.24/14.73	50.14/50.04	155.93
UP-83963265 (Old)	80 MM	79.86/79.76	24.00 MM	24.25/24.15	29.08/28.96	15.24/14.73	50.14/50.04	155.93
UP-83962807	80 MM	79.86/79.76	24.00 MM	24.25/24.15	29.08/28.96	10.26/9.75	40.16/40.04	155.93
UP-85800981	90 MM	89.86/89.76	24.00 MM	24.25/24.15	29.08/28.96	15.24/14.73	50.14/50.04	173.26
UP-87414507	100 MM	99.87/99.77	30.50 MM	30.80/30.40	41.27/41.14	14.25/13.75	56.15/56.05	184.82
UP-85800982 (Old)	100 MM	99.87/99.77	30.50 MM	30.80/30.40	41.27/41.14	14.25/13.75	56.15/56.05	184.82
UP-87428631	110 MM	109.88/109.78	30.00 MM	30.25/30.200	45.08/44.95	10.160/9.652	50.14/50.04	202.13
UP-81875232 (Old)	110 MM	109.88/109.78	30.00 MM	30.25/30.200	45.08/44.95	10.160/9.652	50.14/50.04	202.13
UP-87611074	115 MM	114.87/114.77	33.50 MM	33.75/33.25	40.31/39.83	10.25/9.75	63.15/63.05	231.08
UP-85800983 (Old)	115 MM	114.87/114.77	33.50 MM	33.75/33.25	40.31/39.83	10.25/9.75	63.15/63.05	231.08
UP-85800984	125 MM	124.87/124.77	33.50 MM	33.75/33.25	40.31/39.83	14.25/13.75	63.15/63.05	259.88

[SEAL INFORMATION]

MMPR



MATERIAL

CAST IRON

PART NUMBER

(Prefix) - (OD) X (W) X (RW)

Machined from cast iron, most employ an over-lapped joint which allows the passing of ports.

PART NUMBER	LIST PRICE
MMPR-40X2X2	\$ 10.55
MMPR-45X2.5X2.2	10.55
MMPR-50X2X2	10.55
MMPR-50X2.5X2.3	10.55
MMPR-55X3X2.5	11.77
MMPR-90X4X3.5	19.12
MMPR-95X4X4	22.94

PART NUMBER	LIST PRICE
MMPR-100X4X4.7	\$ 66.31
MMPR-100X4.7X4.2	79.87
MMPR-105X4X4.4	23.40
MMPR-115X4X4.7	43.23
MMPR-120X4X5	46.12
MMPR-125X4X4.8	27.46
MMPR-130X4X5.4	55.01

PART NUMBER	LIST PRICE
MMPR-130X6.3X3.75	\$ 41.04
MMPR-135X4X5.4	30.03
MMPR-140X4X5.7	35.49
MMPR-145X4X6	46.70
MMPR-150X4X6.3	49.15
MMPR-160X4X6.55	41.50
MMPR-160X7.88X6.8	39.52

PART NUMBER	LIST PRICE
MMPR-170X4X7	\$ 59.22
MMPR-180X7.4X6	97.54
MMPR-185X4X7.55	50.24
MMPR-200X7.88X6.8	87.14
MMPR-250X9.6X9	119.74

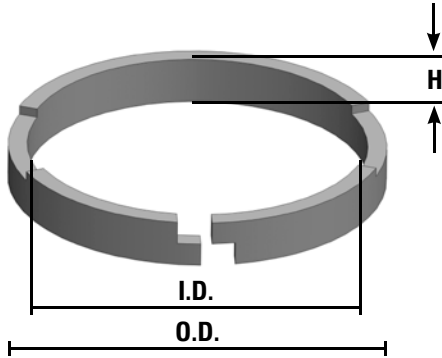
Do you need a custom machined seal right away?

Look at page xxxvi of this catalog for **Custom Machined Seals**. We offer a fast 2-3 day delivery and even faster **Expedite Service**.



[SEAL INFORMATION]

MRT

**MATERIAL**FILLED NYLON OR
REINFORCED PHENOLIC**TEMPERATURE RANGE**

-40° TO +250° F

PRESSURE RANGE

0 TO 5,000 PSI

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

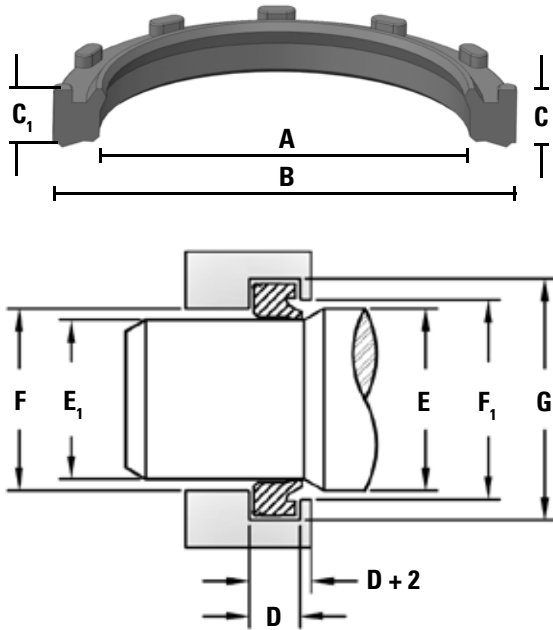
N = FILLED NYLON**P = REINFORCED PHENOLIC**

PART NUMBER	I.D.	O.D.	H	MATERIAL	LIST PRICE
MRT-30A	25.80	30.00	5	P	\$ 20.72
MRT-30B	24.80	30.00	5	P	21.74
MRT-38	33.00	38.00	6	P	33.82
MRT-38A	33.00	38.00	6	P	14.75
MRT-38B	31.76	38.00	6	N	21.38
MRT-38C	31.80	38.00	6	P	21.38
MRT-40	33.65	38.85	6	N	20.00
MRT-45A	39.00	45.00	6	N	18.75
MRT-46	41.00	46.00	6	N	15.03
MRT-46B	39.80	46.00	6	N	43.13
MRT-52	46.00	52.00	6	P	9.90
MRT-55A	48.50	54.42	6	P	10.98
MRT-65	60.00	65.00	6	N	23.40
MRT-65A	58.80	65.00	6	P	24.76
MRT-65B	61.05	64.00	6	N	24.76
MRT-70	65.00	70.00	6	N	26.00
MRT-70A	63.00	69.00	6	P	24.76
MRT-70B	64.00	70.00	6	N	20.29
MRT-72A	64.80	70.80	6	P	25.49
MRT-75	70.00	75.00	6	N	28.89
MRT-75A	68.00	74.00	6	P	26.44
MRT-75C	68.80	75.00	6	P	25.78
MRT-80	75.00	80.00	6	N	31.75
MRT-80A	68.85	78.85	8	P	23.76
MRT-80C	73.80	80.00	6	P	25.27
MRT-85	80.00	85.00	6	N	20.23

PART NUMBER	I.D.	O.D.	H	MATERIAL	LIST PRICE
MRT-85A	74.00	84.00	8	P	\$ 23.98
MRT-85B	78.76	85.00	6	N	23.49
MRT-85C	75.00	85.00	10	P	18.35
MRT-87	81.00	87.00	6	N	24.78
MRT-89	89.00	94.00	6	P	30.07
MRT-90	85.00	90.00	6	N	34.97
MRT-90A	79.00	89.00	8	P	24.20
MRT-90C	83.80	90.00	6	P	26.93
MRT-95	90.00	95.00	6	N	38.57
MRT-95A	83.70	93.70	8	P	23.11
MRT-95B	88.80	95.00	6	N	17.71
MRT-98	92.50	98.50	6	N	19.69
MRT-100	95.00	100.00	6	N	22.25
MRT-100A	88.85	98.85	8	P	24.62
MRT-104A	95.60	105.00	10	P	21.78
MRT-105	105.00	110.00	6	P	31.37
MRT-105A	93.50	103.50	8	P	27.88
MRT-107	101.80	107.00	6	P	23.33
MRT-110C	100.00	110.00	10	P	23.88
MRT-115	109.80	115.00	6	P	15.52
MRT-117	117.00	122.00	6	P	22.75
MRT-120	114.80	120.00	6	P	23.33
MRT-120A	108.50	118.50	8	P	28.61
MRT-128A	116.00	128.00	10	P	25.14
MRT-134A	122.00	134.00	10	P	26.51

[SEAL INFORMATION]

MS-C



MATERIAL	93A URETHANE
TEMPERATURE RANGE	-22° TO +194° F
PRESSURE RANGE	0 TO 230 PSI
SPEED	1.5 FT/SEC
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

This MS-C cushion seal is designed specifically for pneumatic applications. The unique spacer lobes projecting from the shoulder brake the stroke at the end of the cylinder to prevent abrupt stops and jarring. With a lead-in chamfered shoulder for better insertion, external grooves for auto-alignment and flow passages for media, the MS-C provides longer service life and better performance of the cylinder.

PART NUMBER	A NOM. ID	B NOM. OD	C NOM. HT	C ₁ OVER- ALL HEIGHT	D GROOVE WIDTH	E ROD DIAMETER	F THROAT DIAMETER	F ₁	G HOUSING DIAMETER	D ₂ OUTER THROAT DEPTH	E ₁ STUB DIAMETER	TH THICK- NESS	LIST PRICE
MS-10X18X6.5C	10	18	6.5	7.80	7.00 ±0.10	10.00 +0.00 -0.07	11.00 +0.11 +0.00	15.00 +0.11 +0.00	18.00 +0.11 +0.00	9.00 ±0.20	8.00 -0.013 -0.035	6.50	\$4.56
MS-12X18X4.3C	12	18	4.3	5.00	4.80 ±0.10	12.00 +0.00 -0.07	13.00 +0.11 +0.00	15.50 +0.11 +0.00	18.00 +0.11 +0.00	6.80 ±0.20	8.00 -0.013 -0.035	4.30	3.61
MS-12X20X6.5C	12	20	6.5	7.80	7.00 ±0.10	12.00 +0.00 -0.07	13.00 +0.11 +0.00	17.00 +0.11 +0.00	20.00 +0.13 +0.00	9.00 ±0.20	8.00 -0.013 -0.035	6.50	3.61
MS-14X22X6.5C	14	22	6.5	7.80	7.00 ±0.10	14.00 +0.00 -0.07	15.00 +0.11 +0.00	19.00 +0.13 +0.00	22.00 +0.13 +0.00	9.00 ±0.20	10.00 -0.013 -0.035	6.50	3.77
MS-16X22X4.7C	16	22	4.7	5.50	5.20 ±0.10	16.00 +0.00 -0.07	17.00 +0.11 +0.00	19.50 +0.13 +0.00	22.00 +0.13 +0.00	7.20 ±0.20	12.00 -0.016 -0.043	4.70	4.08
MS-16X24X6.5C	16	24	6.5	7.80	7.00 ±0.10	16.00 +0.00 -0.07	17.00 +0.11 +0.00	21.00 +0.13 +0.00	24.00 +0.13 +0.00	9.00 ±0.20	12.00 -0.016 -0.043	6.50	4.08
MS-18X26X6.5C	18	26	6.5	7.80	7.00 ±0.10	18.00 +0.00 -0.07	19.00 +0.11 +0.00	23.00 +0.13 +0.00	26.00 +0.13 +0.00	9.00 ±0.20	16.00 -0.016 -0.043	6.50	5.16
MS-20X28X6.5C	20	28	6.5	7.80	7.00 ±0.10	20.00 +0.000 -0.084	21.00 +0.13 +0.00	24.00 +0.13 +0.00	28.00 +0.13 +0.00	9.00 ±0.20	16.00 -0.016 -0.043	6.50	4.22
MS-22X30X6.5C	22	30	6.5	7.80	7.00 ±0.10	22.00 +0.000 -0.084	23.00 +0.13 +0.00	24.00 +0.13 +0.00	30.00 +0.13 +0.00	9.00 ±0.20	19.50 -0.020 -0.053	6.50	4.39
MS-24X32X6.5C	24	32	6.2	7.80	7.00 ±0.10	24.00 +0.000 -0.084	25.00 +0.13 +0.00	28.00 +0.13 +0.00	32.00 +0.16 +0.00	9.00 ±0.20	20.00 -0.020 -0.053	6.20	4.46
MS-25X33X6.5C	25	33	6.5	7.80	7.00 ±0.10	25.00 +0.000 -0.084	26.00 +0.13 +0.00	29.00 +0.13 +0.00	33.00 +0.16 +0.00	9.00 ±0.20	21.00 -0.020 -0.053	6.50	4.56
MS-25X35X6.2C	25	35	6.2	7.80	7.00 ±0.10	25.00 +0.000 -0.084	26.00 +0.13 +0.00	30.00 +0.13 +0.00	35.00 +0.16 +0.00	9.00 ±0.20	21.00 -0.020 -0.053	6.20	5.46



MS-C CUSHION SEALS

CUSHION SEALS

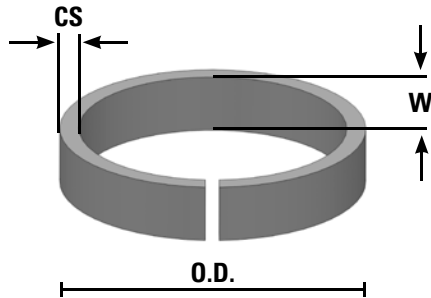
PART NUMBER	C ₁			D	E	F		F ₁	G		D ₂		E ₁	TH THICKNESS	LIST PRICE
	A NOM. ID	B NOM. OD	C NOM. HT			OVER-ALL HEIGHT	GROOVE WIDTH		ROD DIAMETER	THROAT DIAMETER	HOUSING DIAMETER	OUTER THROAT DEPTH			
MS-28X36X6.5C	28	36	6.5	7.50	7.00 ±0.10	28.00 +0.000 -0.084	29.00 +0.16 +0.00	32.00 +0.16 +0.00	36.00 +0.16 +0.00	9.00 ±0.20	25.50 -0.020 -0.053	6.50	\$6.06		
MS-30X40X6.5C	30	40	6.5	7.80	7.00 ±0.10	30.00 +0.000 -0.084	31.50 +0.16 +0.00	35.00 +0.16 +0.00	40.00 +0.16 +0.00	9.00 ±0.20	26.00 -0.020 -0.053	6.50	5.10		
MS-32X42X6.5C	32	42	6.5	7.80	7.00 ±0.10	32.00 +0.000 -0.084	33.50 +0.16 +0.00	37.00 +0.16 +0.00	42.00 +0.16 +0.00	9.00 ±0.20	29.00 -0.020 -0.053	6.50	6.36		
MS-36X46X6.5C	36	46	6.5	7.80	7.00 ±0.10	36.00 +0.00 -0.10	37.50 +0.16 +0.00	41.00 +0.16 +0.00	46.00 +0.16 +0.00	9.00 ±0.20	32.00 -0.025 -0.064	6.50	6.28		
MS-40X50X6.5C	40	50	6.5	7.80	7.00 ±0.10	40.00 +0.00 -0.10	41.50 +0.16 +0.00	45.00 +0.16 +0.00	50.00 +0.16 +0.00	9.00 ±0.20	32.00 -0.025 -0.064	6.50	6.65		
MS-50X60X6.5C	50	60	6.5	7.80	7.00 ±0.10	50.00 +0.00 -0.10	51.50 +0.19 +0.00	55.00 +0.19 +0.00	60.00 +0.19 +0.00	9.00 ±0.20	46.00 -0.025 -0.064	6.50	6.80		
MS-50X67X11C	50	67	11	11.00	12.50 ±0.10	50.00 +0.00 -0.10	53.00 +0.19 +0.00	58.00 +0.19 +0.00	67.00 +0.19 +0.00	14.50 ±0.20	46.00 -0.025 -0.064	11.00	8.41		
MS-57X74X11C	57	74	11	11.00	12.50 ±0.10	57.00 +0.00 -0.12	60.00 +0.19 +0.00	65.00 +0.19 +0.00	74.00 +0.19 +0.00	14.50 ±0.20	53.00 -0.030 -0.076	11.00	8.16		
MS-70X87X11C	70	87	11	11.00	12.50 ±0.10	70.00 +0.00 -0.12	73.00 +0.19 +0.00	78.00 +0.19 +0.00	87.00 +0.22 +0.00	14.50 ±0.20	66.00 -0.030 -0.076	11.00	8.98		
MS-78X95X11C	78	95	11	11.00	12.50 ±0.10	78.00 +0.00 -0.12	81.00 +0.19 +0.00	86.00 +0.19 +0.00	95.00 +0.22 +0.00	14.50 ±0.20	74.00 -0.030 -0.076	11.00	13.74		

METRIC



[SEAL INFORMATION]

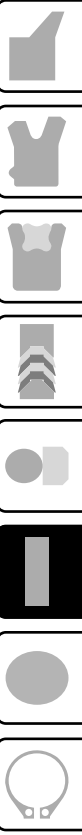
MWR



MATERIAL	NYLON
TEMPERATURE RANGE	-40° TO +250° F
COMPRESSIVE STRENGTH	35,000 PSI
TENSILE STRENGTH	27,000 PSI
PART NUMBER	(Prefix) - (OD) X (W) X (CS)

This wear ring is molded from glass-reinforced nylon. This style is highly recommended because of its wear rate and non-scoring properties and its ability to ingest metal chips.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MWR-28X10X1.5	\$ 16.37	MWR-56X12.7X3	\$ 16.64	MWR-75X15X2	\$ 15.51	MWR-90X25X3	\$ 14.25
MWR-32X4X1.5	13.98	MWR-58X24.7X1.53-SC	19.79	MWR-75X25X3.15	14.49	MWR-91X39.5X3	33.71
MWR-35X8X2	5.97	MWR-60X12.7X3.17	15.45	MWR-75X29.8X3.2-SC	17.83	MWR-95X9.85X4.5-SC	23.43
MWR-35X9.5X1.5	16.45	MWR-60X14.5X2.5	9.36	MWR-80X6X3.12	18.21	MWR-95X12.5X4.5	24.21
MWR-35X15X1.5	19.89	MWR-60X19X3.17	15.90	MWR-80X9.35X3.17-SC	8.02	MWR-95X15X2.5-SC	11.60
MWR-35X15.9X1.5	20.09	MWR-60X20X2.5	9.47	MWR-80X10X2	20.51	MWR-99X13.9X3.6-SL	51.82
MWR-38X24.4X1.53-SC	19.07	MWR-62X10X2	9.45	MWR-80X10X3.12	3.91	MWR-100X5.9X3-SC	16.58
MWR-39X16X1.5	21.96	MWR-63X5X3.1	13.56	MWR-80X13X2.5	8.78	MWR-100X10X4.5-SC	10.23
MWR-40X12X2	13.36	MWR-63X5.6X2.5	6.89	MWR-80X15.5X3	10.19	MWR-100X15X3.15	13.10
MWR-43X15.9X1.5	21.58	MWR-63X12X2-SC	22.57	MWR-80X19.5X3	10.20	MWR-100X22.4X3-SC	23.82
MWR-45X14.5X3	7.39	MWR-63X20X2.5	9.52	MWR-80X20X2.5	20.98	MWR-100X25X3	14.25
MWR-45X20X2	14.08	MWR-65X10X2	16.91	MWR-80X25X3	17.72	MWR-100X28.3X3.24-SC	24.22
MWR-48X22.5X1.5	22.56	MWR-65X10X2.5	6.01	MWR-85X5.35X2.4-SC	8.02	MWR-105X6X2.5-SC	30.72
MWR-50X5X3	7.46	MWR-65X15.5X3	9.14	MWR-85X6X2.5-SC	25.02	MWR-105X10X4.5-SC	19.22
MWR-50X9.5X2	8.21	MWR-68X25X1.5-SC	11.34	MWR-85X9.5X2.5	30.48	MWR-105X12.5X4.5	24.56
MWR-50X9.5X2.5	8.44	MWR-69X30X3	19.48	MWR-85X10X2-SC	12.48	MWR-105X15X3-SC	21.89
MWR-50X10X2	9.30	MWR-70X9.5X2.4-SC	11.55	MWR-85X14.5X3-SC	16.87	MWR-105X24.5X3	13.10
MWR-50X14.5X2	7.48	MWR-70X10X2	3.19	MWR-85X15X2.5-SC	14.97	MWR-105X40X3	26.53
MWR-50X14.8X2.5	14.99	MWR-70X10X3.12	3.88	MWR-85X25X2.5	28.98	MWR-110X5.9X3-SC	17.67
MWR-50X19X3.17	14.57	MWR-70X14.5X3-SC	14.42	MWR-85X25.4X3.17	13.24	MWR-110X7.9X2.5	9.69
MWR-50X20X2.5	8.23	MWR-70X15.5X3	9.65	MWR-85X29.9X3.25-SC	37.37	MWR-110X7.9X3.12	11.04
MWR-51X9.6X3	7.48	MWR-70X19.5X3	12.33	MWR-86X25X3	8.67	MWR-110X10X4.5-SC	20.89
MWR-53X24.5X1.5	13.15	MWR-70X20X2.5	8.50	MWR-86X50X3	17.37	MWR-110X12.5X2.75	23.03
MWR-55X7.9X2.5	16.07	MWR-71X9.7X2.5	8.04	MWR-90X9.35X3.17-SC	9.13	MWR-110X12.5X4.5	25.48
MWR-55X10.5X3	7.56	MWR-75X5.4X2.5-SC	9.88	MWR-90X10X4.5-SC	8.64	MWR-110X15X3.1	23.42
MWR-55X15.5X3	8.65	MWR-75X9.5X3.15	17.33	MWR-90X12.5X3	9.85	MWR-110X22.4X3-SC	24.39
MWR-55X20X2.5	12.03	MWR-75X10X2	14.16	MWR-90X12.5X4.5	23.87	MWR-110X25X3	18.17
MWR-56X5X3.12	11.03	MWR-75X12.7X3	8.80	MWR-90X15X3.15	4.72	MWR-110X30X3-SC	21.21

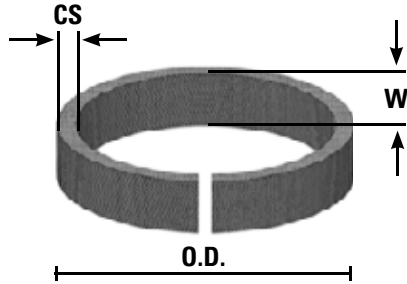


PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MWR-115X5.8X4-SC	\$ 31.57	MWR-125X20X3.12	\$ 17.58	MWR-140X35X3.5	\$ 10.51	MWR-180X22.5X4	\$ 61.12
MWR-115X7.9X2.5	9.69	MWR-130X7.9X2.5	11.63	MWR-140X45X3.5-SC	53.64	MWR-180X28.2X4-SC	53.69
MWR-115X8X3.1-SC	21.05	MWR-130X9.4X3.17-SC	10.62	MWR-145X9.5X2.5	20.54	MWR-180X45X4	18.86
MWR-115X9.5X2.5	10.14	MWR-130X10X5-SC	18.32	MWR-145X9.7X3.85-SC	40.29	MWR-180X55X4-SC	80.89
MWR-115X10X4.5-SC	12.36	MWR-130X12X3	25.59	MWR-145X12.2X6-SC	41.89	MWR-185X22.5X6	59.18
MWR-115X15X3	12.09	MWR-130X15X3.5-SC	26.82	MWR-145X14.8X3.5	14.90	MWR-190X9.2X4-SC	12.05
MWR-115X15X4.5	41.46	MWR-130X15X5	44.37	MWR-150X12.2X6-SC	59.02	MWR-190X28.5X4-SC	48.17
MWR-120X5.9X3-SC	23.16	MWR-130X18.1X3.5	33.14	MWR-150X14.8X3.5	16.03	MWR-190X45X4	71.46
MWR-120X7.9X2.5	10.43	MWR-130X30X3.5	33.37	MWR-150X17.5X6	37.55	MWR-190X55X4-SC	74.69
MWR-120X10X4.5-SC	22.03	MWR-130X40X3.5-SC	52.22	MWR-150X20.9X3.5-SC	20.55	MWR-200X20X3.12	32.57
MWR-120X15.45X3	18.77	MWR-135X7.75X4-SC	32.50	MWR-150X35X3.5	49.46	MWR-200X22X4	19.38
MWR-120X15X3-SC	29.14	MWR-135X7.9X2.5	12.22	MWR-150X45X3.5-SC	56.79	MWR-200X22.5X6	63.65
MWR-120X15X4.5	43.90	MWR-135X9.85X3.85	33.85	MWR-160X15X6-SC	22.92	MWR-200X45X4	26.24
MWR-120X20X3.12-SC	13.77	MWR-135X10X5	42.25	MWR-160X20X3.12	14.02	MWR-200X60X3.25-SC	151.29
MWR-120X22.4X3-SC	38.86	MWR-135X14.8X3.5	14.38	MWR-160X20X3.5	41.83	MWR-220X60X3.25-SC	159.26
MWR-120X30X3	22.04	MWR-135X15X5	48.16	MWR-160X20X6	60.64	MWR-224X45X4	72.90
MWR-120X35X3-SC	42.20	MWR-135X18.3X3.5-SC	7.45	MWR-160X20.3X3.5-SC	33.77	MWR-225X25X4	71.33
MWR-120X40X3	28.74	MWR-140X7.9X2.5	12.69	MWR-160X40X3.5	44.47	MWR-225X25X6	80.67
MWR-125X7.9X2.5	10.79	MWR-140X9.5X2.5	19.94	MWR-160X45X3.5-SC	51.42	MWR-225X50X4	71.56
MWR-125X10X3.1-SC	19.30	MWR-140X10X3.12	11.76	MWR-170X9.35X4-SC	65.80	MWR-250X27.5X6	53.01
MWR-125X10X5-SC	20.38	MWR-140X12.5X6-SC	20.43	MWR-170X20X6-SC	88.42	MWR-250X55X4	91.93
MWR-125X15X3	28.54	MWR-140X17.5X6-SC	54.42	MWR-170X25X3.8SC	44.86	MWR-260X27.5X6	137.15
MWR-125X15X5-SC	24.24	MWR-140X20X3.12	17.89	MWR-170X50X4-SC	71.49	MWR-280X60X4	126.97
MWR-125X20X3	17.15	MWR-140X20.35X3.5	44.82	MWR-180X20X3	17.60	MWR-300-30X6	173.94



[SEAL INFORMATION]

MWRB



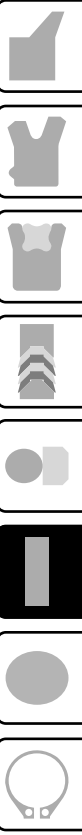
MATERIAL	PHENOLIC
TEMPERATURE RANGE	-40° TO +250° F
COMPRESSIVE STRENGTH	34,000 PSI
TENSILE STRENGTH	10,600 PSI
PART NUMBER	(Prefix) - (OD) X (W) X (CS)

Fabricated from fine woven fabric and phenolic resins, this wear ring is strong yet light weight with an excellent wear rate.

PART NUMBER	LIST PRICE
MWRB-25X4X1.5-SC	\$ 16.15
MWRB-30X10X2.5-SC	4.55
MWRB-35X10X2	4.45
MWRB-35X16X1.5-SC	3.94
MWRB-36X8.2X2-SC	3.80
MWRB-36X9.5X2-SC	3.95
MWRB-36X20X2	7.41
MWRB-37X10X2.5-SC	6.20
MWRB-39X25X2	11.82
MWRB-40X5.5X2.5-SC	2.13
MWRB-40X9.5X2.5	5.35
MWRB-40X9.7X2-SC	5.80
MWRB-41X9.7X2.5-SC	3.90
MWRB-44X9.7X2	8.87
MWRB-44X20X2	14.03
MWRB-44X40X2	14.42
MWRB-45X14X2.5-SC	1.74
MWRB-45X14.5X3	8.30
MWRB-45X15X2.5-SC	4.68
MWRB-45X20X2.5	7.80
MWRB-45X32X2.5-SC	13.47
MWRB-46X10X3	6.56
MWRB-46X20X3	8.30
MWRB-47X5.7X2.5-SC	10.92
MWRB-49X8X2-SC	4.49
MWRB-49X25X2	6.22
MWRB-50X5X2.5	2.95
MWRB-50X6X2.5-SC	3.61

PART NUMBER	LIST PRICE
MWRB-50X6X5-SC	\$ 4.49
MWRB-50X6.8X2.5	5.21
MWRB-50X9X2.5	3.93
MWRB-50X9.7X2-SC	4.49
MWRB-50X9.7X2.5	8.87
MWRB-50X9.7X2.5-SC	9.33
MWRB-50X10X1.9-SC	7.53
MWRB-50X10X2.5	6.15
MWRB-50X10.2X2-SC	5.61
MWRB-50X12.6X3.3	6.28
MWRB-50X14.5X2	6.72
MWRB-50X15X2.5	6.83
MWRB-50X20X2.5	8.43
MWRB-50X28X2.5-SC	3.01
MWRB-50X30X2.5-SC	8.82
MWRB-51X22.5X3	11.95
MWRB-55X5.4X2.5-SC	3.96
MWRB-55X5.6X2.5-SC	3.21
MWRB-55X7.9X2.5	5.19
MWRB-55X9.5X2.5-SC	7.38
MWRB-55X9.7X2.5	6.03
MWRB-55X10X2-SC	4.93
MWRB-55X14.7X2.5-SC	9.97
MWRB-55X15X2.5	8.43
MWRB-55X15.5X3	11.95
MWRB-55X16X2.5-SC	1.95
MWRB-55X20X2.5	11.80
MWRB-55X29.5X2.5-SC	8.52

PART NUMBER	LIST PRICE
MWRB-55X30X2.5-SC	\$ 9.72
MWRB-55X32X2.5-SC	11.23
MWRB-55X35X2.5-SC	13.20
MWRB-56X25X3	9.67
MWRB-56X29.5X3	11.23
MWRB-58X30X4-SC	10.82
MWRB-60X7X2.5-SC	4.49
MWRB-60X9.5X2.5	6.88
MWRB-60X9.7X2.5-SC	5.39
MWRB-60X10X2-SC	4.93
MWRB-60X10X2.5	6.83
MWRB-60X12.3X2.85-SC	5.05
MWRB-60X12.7X3	10.06
MWRB-60X14.5X2.5-SC	7.62
MWRB-60X15X2.5-SC	6.28
MWRB-60X18X2.5-SC	5.41
MWRB-60X20X2.5	7.62
MWRB-62X25X3	10.01
MWRB-63X5.6X2.5-SC	4.03
MWRB-63X7X2.5-SC	16.66
MWRB-63X9.7X2.5	6.48
MWRB-63X15X2.5	11.24
MWRB-63X15.7X3-SC	15.02
MWRB-65X15X2.5-SC	5.92
MWRB-65X15.5X3	10.32
MWRB-65X18X2.5-SC	2.62
MWRB-65X19.7X2.5	9.45
MWRB-65X25X2.5	14.79



PART NUMBER	LIST PRICE
MWRB-66X29.7X3	\$ 13.93
MWRB-68X9.4X2.5-SC	9.08
MWRB-68X9.7X2.5	9.57
MWRB-68X25X2.5-SC	9.55
MWRB-69X31.5X3-SC	8.57
MWRB-69X35X2-SC	9.02
MWRB-70X5.3X2.5-SC	4.18
MWRB-70X6.8X2.5-SC	3.48
MWRB-70X9.5X2.5-SC	4.55
MWRB-70X10X2-SC	5.28
MWRB-70X10X2.5	4.93
MWRB-70X12X2.5	5.46
MWRB-70X12.3X2.85-SC	5.27
MWRB-70X12.4X3	5.46
MWRB-70X14.8X2.5	5.76
MWRB-70X15X3-SC	8.65
MWRB-70X15X3-SC	10.67
MWRB-70X15.5X3	8.65
MWRB-70X19.5X3	12.96
MWRB-70X20X2.5	10.13
MWRB-70X30X2.5	12.96
MWRB-70X35X2.5-SC	10.47
MWRB-75X9.5X2.5-SC	5.56
MWRB-75X10X2.5	8.19
MWRB-75X10X3	2.45
MWRB-75X14.5X2.5	12.43
MWRB-75X15X2.5	12.43
MWRB-75X18X2.5-SC	3.06
MWRB-75X19.6X3-SC	10.67
MWRB-75X20X2.5-SC	10.24
MWRB-75X30X2.5	14.23
MWRB-75X40X2.5-SC	15.85
MWRB-75X45X2.5-SC	16.60
MWRB-75X50X2.5-SC	17.96
MWRB-75X56X2.5-SC	20.21
MWRB-76X31.5X3.12-SC	13.35
MWRB-76X35X3-SC	9.90
MWRB-76X39.7X3	9.35
MWRB-80X9.7X2.5-SC	5.52
MWRB-80X10X2-SC	5.39
MWRB-80X10X2.5-SC	4.55
MWRB-80X10X3-SC	3.21
MWRB-80X14.5X2.5	12.43

PART NUMBER	LIST PRICE
MWRB-80X15X2.5-SC	\$ 7.32
MWRB-80X15X3-SC	7.93
MWRB-80X15.5X3	10.01
MWRB-80X15.7X3-SC	3.94
MWRB-80X19.5X3	11.61
MWRB-80X20X2.5	11.04
MWRB-80X20X2.5-SC	15.71
MWRB-80X20X2.5	13.61
MWRB-80X24.6X3-SC	15.71
MWRB-80X32X2.5-SC	20.52
MWRB-80X50X2.5-SC	25.57
MWRB-85X5.5X2.5	3.50
MWRB-85X9.7X2.5-SC	4.23
MWRB-85X9.7X2.5	10.06
MWRB-85X10X3	2.80
MWRB-85X12.5X3-SC	7.17
MWRB-85X15X4-SC	9.62
MWRB-85X18X2.5-SC	3.43
MWRB-85X19.7X2.5	14.79
MWRB-85X20X3-SC	7.06
MWRB-85X25X2.5-SC	15.71
MWRB-85X25X3-SC	15.71
MWRB-85X29.7X2.5-SC	22.15
MWRB-85X35X2.5	19.11
MWRB-85X40X2.5-SC	27.52
MWRB-85X50X2.5-SC	29.25
MWRB-86X40X3	23.21
MWRB-86X49.5X3	18.35
MWRB-90X5X2.5	7.29
MWRB-90X6X4-SC	7.04
MWRB-90X8X2.5-SC	10.16
MWRB-90X9.7X2.5-SC	3.96
MWRB-90X10X3	9.90
MWRB-90X12.5X3	10.93
MWRB-90X12.5X4.5	11.38
MWRB-90X14.8X4	15.50
MWRB-90X15X2-SC	11.36
MWRB-90X15X2.5-SC	8.82
MWRB-90X15X4-SC	10.03
MWRB-90X20X3-SC	6.38
MWRB-90X24.6X3-SC	21.50
MWRB-90X25X3	16.54
MWRB-90X25X3.2-SC	20.73

PART NUMBER	LIST PRICE
MWRB-95X6X2.5	\$ 7.85
MWRB-95X7.9X2.5	8.54
MWRB-95X9.5X2.5	9.22
MWRB-95X9.7X2.5	10.06
MWRB-95X9.7X4-SC	10.16
MWRB-95X10X2-SC	6.74
MWRB-95X12.4X3-SC	7.00
MWRB-95X12.5X3-SC	5.32
MWRB-95X12.5X4.5	24.27
MWRB-95X14.8X2.5	11.95
MWRB-95X14.8X4-SC	19.21
MWRB-95X15X2.5	14.79
MWRB-96X25X3-SC	6.51
MWRB-96X29X3-SC	18.74
MWRB-100X5.9X4-SC	11.91
MWRB-100X6X2.5-SC	8.73
MWRB-100X7.9X2.5	8.77
MWRB-100X9.2X3	6.13
MWRB-100X9.5X2.5	9.56
MWRB-100X9.6X2.5	10.66
MWRB-100X10X3-SC	4.95
MWRB-100X12.5X3	10.24
MWRB-100X12.5X4.5-SC	9.33
MWRB-100X12.8X2.5	22.54
MWRB-100X14.7X2.5-SC	14.54
MWRB-100X14.8X2.5	11.72
MWRB-100X14.8X3	12.18
MWRB-100X17X3.4-SC	4.51
MWRB-100X20X3-SC	11.96
MWRB-100X25X2.5-SC	17.26
MWRB-100X25X3	17.06
MWRB-100X25X3-SC	17.06
MWRB-100X25X3.2-SC	24.30
MWRB-100X30X3	19.11
MWRB-100X30X3-SC	10.84
MWRB-100X40X3.12	38.46
MWRB-101X39.5X3	12.08
MWRB-104X25X4	17.75
MWRB-105X6X2.5	8.30
MWRB-105X7.9X2.5	9.33
MWRB-105X9.5X2.5	10.01
MWRB-105X9.7X3-SC	8.38
MWRB-105X12.5X4.5	12.52

MWRB WEAR RINGS

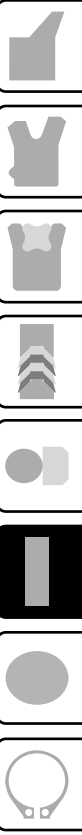
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WEAR RINGS

PART NUMBER	LIST PRICE
MWRB-105X14.8X2.5	\$ 12.05
MWRB-105X15X2.5-SC	17.18
MWRB-105X15X3-SC	16.32
MWRB-105X24.5X3	17.85
MWRB-105X24.5X4	17.75
MWRB-105X60.1X2.5-SC	37.67
MWRB-110X5.9X4-SC	11.91
MWRB-110X6X2.5	10.24
MWRB-110X7.9X2.5	9.33
MWRB-110X9.5X2.5	10.01
MWRB-110X12.5X3	10.34
MWRB-110X14X3.5-SC	12.29
MWRB-110X14.8X2.5	4.32
MWRB-110X15X2.5-SC	10.16
MWRB-110X15X3-SC	16.95
MWRB-110X15X4	17.09
MWRB-110X15X5-SC	11.32
MWRB-110X25X3	18.43
MWRB-110X30X3	20.48
MWRB-113X20X4-SC	17.06
MWRB-115X7.9X2.5	9.45
MWRB-115X9.5X2.5	10.24
MWRB-115X9.7X3-SC	10.91
MWRB-115X10X4.5-SC	17.20
MWRB-115X14.8X2.5	12.73
MWRB-115X15X3-SC	16.67
MWRB-115X15X4-SC	11.83
MWRB-115X15X4.5	15.01
MWRB-115X24.7X4	18.34
MWRB-118X30X4-SC	24.91
MWRB-120X5.9X4-SC	12.73
MWRB-120X7.9X2.5	9.79
MWRB-120X9.5X2.5	10.93
MWRB-120X9.7X3-SC	8.82
MWRB-120X12.3X2.85-SC	8.33
MWRB-120X12.4X3	8.40
MWRB-120X14X3.5-SC	4.79
MWRB-120X14.8X2.5	13.07
MWRB-120X14.8X3	13.21
MWRB-120X14.8X3.5	13.21
MWRB-120X15X2.5	14.79
MWRB-120X15X4.5	33.85
MWRB-120X15X5-SC	13.61

PART NUMBER	LIST PRICE
MWRB-120X25X2.5-SC	\$ 15.71
MWRB-120X25X3	17.74
MWRB-120X30X3	21.73
MWRB-120X30X3.5	24.09
MWRB-125X7.9X2.5	10.24
MWRB-125X9.5X2.5	10.93
MWRB-125X9.7X3-SC	9.28
MWRB-125X9.9X3-SC	10.93
MWRB-125X14.8X2.5	12.73
MWRB-125X14.8X3	16.72
MWRB-125X14.8X3.5	16.72
MWRB-125X15X5-SC	13.61
MWRB-125X16.8X3.5	6.76
MWRB-125X19.8X3	13.64
MWRB-125X20X2-SC	15.20
MWRB-125X25X2.5-SC	15.71
MWRB-125X48X3.2-SC	31.48
MWRB-127X9.5X3	12.43
MWRB-128X30X4-SC	11.69
MWRB-130X7.9X2.5	12.05
MWRB-130X9.5X2.5	13.55
MWRB-130X10X3.5-SC	23.93
MWRB-130X14.8X2.5	15.12
MWRB-130X14.8X3.5	16.38
MWRB-130X15X2.5-SC	14.22
MWRB-130X15X5	17.06
MWRB-130X20X4	31.40
MWRB-130X24X3.5-SC	8.17
MWRB-130X25X2.5-SC	18.39
MWRB-130X30X3	25.60
MWRB-130X30X3.5	26.28
MWRB-135X7.9X2.5	11.50
MWRB-135X9.5X2.5	14.86
MWRB-135X9.8X3.5-SC	15.01
MWRB-135X14.8X2.5	15.46
MWRB-135X14.8X3.5	20.65
MWRB-135X15X5	23.12
MWRB-140X7.9X2.5	11.84
MWRB-140X9.5X2.5	13.21
MWRB-140X9.5X2.5-SC	13.21
MWRB-140X10X3.5-SC	17.19
MWRB-140X12X3-SC	14.33
MWRB-140X14.8X2.5	15.71

PART NUMBER	LIST PRICE
MWRB-140X14.8X3.5	\$ 15.71
MWRB-140X17.5X6	22.76
MWRB-140X20X2.5-SC	27.98
MWRB-140X20X3.5	20.71
MWRB-140X20X4	32.88
MWRB-140X25X3.5-SC	9.28
MWRB-140X30X3-SC	20.88
MWRB-140X35X3.5	33.11
MWRB-140X40X3.5	35.95
MWRB-140X50X3-SC	36.86
MWRB-140X56X3.2-SC	51.98
MWRB-145X7.9X2.5	14.25
MWRB-145X9.5X2.5	13.21
MWRB-145X9.5X3.5	14.00
MWRB-145X14.8X2.5	16.15
MWRB-145X14.8X3.5	17.40
MWRB-145X20X3.5-SC	22.90
MWRB-145X25X2.5-SC	18.69
MWRB-150X7.8X4-SC	13.11
MWRB-150X7.9X2.5	12.29
MWRB-150X9.5X2.5	13.32
MWRB-150X12.5X2.5-SC	16.57
MWRB-150X14.8X2.5	16.61
MWRB-150X14.8X3.5	17.99
MWRB-150X20X2.5-SC	16.00
MWRB-150X20X3-SC	20.48
MWRB-150X20X3.5-SC	22.12
MWRB-150X22X3.5-SC	9.99
MWRB-150X25X3.5-SC	24.70
MWRB-150X30X3.5-SC	23.48
MWRB-150X35X3.5	34.82
MWRB-150X40X3.5	34.93
MWRB-150X42X3-SC	34.93
MWRB-150X51X3.2-SC	52.63
MWRB-155X7.9X2.5	14.78
MWRB-155X9.5X2.5	13.43
MWRB-155X14.8X2.5	16.83
MWRB-155X85X2.5-SC	148.90
MWRB-158X23X5	23.67
MWRB-160X7.9X2.5	47.55
MWRB-160X9.1X4	10.34
MWRB-160X9.5X2.5	14.44
MWRB-160X12.5X2.5-SC	12.86



METRIC

MWRB WEAR RINGS

WEAR RINGS

PART NUMBER	LIST PRICE
MWRB-160X14.35X2.5-SC	\$ 16.07
MWRB-160X14.8X2.5	20.54
MWRB-160X14.8X3.5	23.21
MWRB-160X19.3X3	23.15
MWRB-160X19.35X3-SC	23.15
MWRB-160X20X3-SC	23.07
MWRB-160X20X3.5	23.44
MWRB-160X20X6	27.99
MWRB-160X24.5X2.5	20.13
MWRB-160X25X2.5	25.37
MWRB-160X25X3.5-SC	10.68
MWRB-160X30X3.5	40.63
MWRB-160X35X2.5	25.26
MWRB-160X35X3-SC	28.67
MWRB-160X40X3.5	42.20
MWRB-160X45X3.5	47.55
MWRB-160X50X3-SC	42.32
MWRB-165X9.5X2.5	14.57
MWRB-165X9.7X3-SC	13.61
MWRB-165X14.8X2.5	14.57
MWRB-165X14.8X3.5	20.02
MWRB-165X15X4	20.48
MWRB-165X20X4	25.02
MWRB-165X24.5X3.2-SC	51.53
MWRB-165X30X3-SC	37.44
MWRB-165X51X3.2-SC	54.66
MWRB-170X9.2X4-SC	8.82
MWRB-170X9.5X2.5	14.78
MWRB-170X9.5X3-SC	15.94
MWRB-170X14.8X2.5	18.43
MWRB-170X14.8X3.5	25.33

PART NUMBER	LIST PRICE
MWRB-170X14.8X4-SC	\$ 26.62
MWRB-170X20X3.5-SC	33.69
MWRB-170X25X4-SC	29.69
MWRB-170X30X3.5-SC	13.62
MWRB-170X40X3.5	43.23
MWRB-175X25X2.5-SC	22.14
MWRB-175X25X4-SC	33.82
MWRB-175X40X4	43.45
MWRB-180X7.9X2.5	16.72
MWRB-180X9.5X2.5	16.72
MWRB-180X14.7X3-SC	30.26
MWRB-180X14.8X2.5	20.48
MWRB-180X14.8X3.5	26.57
MWRB-180X22X4	30.83
MWRB-180X22.5X6	36.18
MWRB-180X25X2.5	29.12
MWRB-180X25X3.5-SC	11.98
MWRB-180X39.5X3	32.56
MWRB-180X40X4	49.04
MWRB-180X45X4	53.58
MWRB-180X49.5X3	16.06
MWRB-180X55X4	68.37
MWRB-185X20X6-SC	29.16
MWRB-185X22.5X6	37.66
MWRB-185X32X3	23.08
MWRB-186X32X3	23.08
MWRB-190X14.8X3-SC	28.67
MWRB-190X15X2.5	21.27
MWRB-190X22.5X4-SC	26.32
MWRB-190X25X3.5-SC	12.54
MWRB-190X25X4-SC	40.40

PART NUMBER	LIST PRICE
MWRB-190X30X3.5-SC	\$ 15.22
MWRB-200X9X4-SC	19.88
MWRB-200X9.7X2.5-SC	14.51
MWRB-200X15X4-SC	20.35
MWRB-200X19.4X3-SC	22.89
MWRB-200X22X4	33.68
MWRB-200X24.7X3.2-SC	47.07
MWRB-200X25X2.5	36.52
MWRB-200X25X3.5-SC	50.07
MWRB-200X40X4	53.58
MWRB-200X45X4	62.69
MWRB-205X120X2.5-SC	161.52
MWRB-225X19.4X3-SC	21.56
MWRB-225X25X4	30.26
MWRB-225X45X4	115.70
MWRB-225X50X4	57.64
MWRB-230X25X4.5-SC	18.17
MWRB-230X28X4.5-SC	92.35
MWRB-250X9.7X4-SC	59.22
MWRB-250X25X2.5	36.29
MWRB-250X27.5X6	62.80
MWRB-250X34X4.5-SC	25.39
MWRB-250X50X4.5-SC	37.51
MWRB-250X55X4	105.91
MWRB-260X34X4.5-SC	26.43
MWRB-260X50X4.5-SC	41.11
MWRB-260X65X4.5-SC	52.89
MWRB-280X30X6	116.07
MWRB-300X25X2.5	45.39
MWRB-320X25X2.5	49.72
MWRB-400X25X2.5	71.90

METRIC



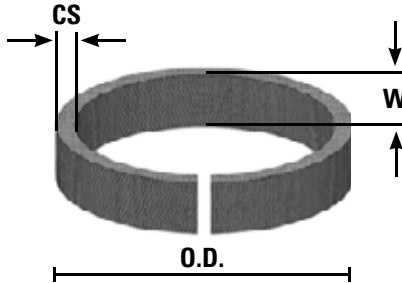
MWRF WEAR RINGS

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WEAR RINGS

[SEAL INFORMATION]

MWRF



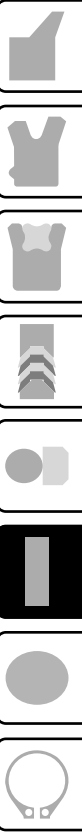
MATERIAL	POLYESTER FIBER/RESIN PTFE FILLER
TEMPERATURE RANGE	-40° TO +250° F
COMPRESSIVE STRENGTH	34,000 PSI
TENSILE STRENGTH	10,600 PSI
PART NUMBER	(Prefix) - (OD) X (W) X (CS)

Fabricated from fine woven fabric and phenolic resins, this wear ring is strong yet light weight with an excellent wear rate.

PART NUMBER	LIST PRICE
MWRF-100X15X4-SC	\$ 59.62
MWRF-100X6X2.5-SC	36.09
MWRF-100X8X2.5-SC	55.02
MWRF-100X9.5X7.5-SC	56.98
MWRF-101X19.8X3-SC	79.67
MWRF-105X19.5X3.2-SC	63.44
MWRF-105X9.5X2.5-SC	102.94
MWRF-110X6X2.5-SC	79.32
MWRF-110X9.5X2.5-SC	100.98
MWRF-115X15X2.5-SC	37.97
MWRF-115X15X4-SC	54.21
MWRF-115X6X4-SC	81.68
MWRF-115X9.5X2.5-SC	78.13
MWRF-120X15X2.5-SC	86.76
MWRF-120X8X4-SC	48.68
MWRF-120X9.5X3-SC	39.20
MWRF-125X15X3-SC	53.83
MWRF-125X18.2X3-SC	89.54
MWRF-125X24.5X2.5-SC	34.24
MWRF-125X9.5X3.2-SC	31.11
MWRF-125X9.5X3.5-SC	62.32
MWRF-125X9.5X3-SC	39.32

PART NUMBER	LIST PRICE
MWRF-130X8X4-SC	\$ 37.11
MWRF-135X15X2.5-SC	76.23
MWRF-135X19.2X3-SC	31.63
MWRF-135X19.5X2.5-SC	91.52
MWRF-135X19.8X3.16-SC	42.91
MWRF-135X19.8X4.66-SC	39.80
MWRF-135X24.5X2.5-SC	76.84
MWRF-135X30X2.5-SC	69.17
MWRF-135X8X4-SC	38.74
MWRF-135X9.5X3.2-SC	44.42
MWRF-135X9.5X3.5-SC	70.49
MWRF-145X15X3.5-SC	40.06
MWRF-145X16.3X3.17-SC	44.42
MWRF-145X19.5X3.25-SC	45.25
MWRF-145X19.5X3.5-SC	47.02
MWRF-145X19.5X3-SC	57.78
MWRF-150X16.3X3.17-SC	55.06
MWRF-165X15X3.5-SC	59.46
MWRF-165X19.5X3.25-SC	77.16
MWRF-165X19.5X3.5-SC	44.54
MWRF-165X19.5X3-SC	81.28
MWRF-165X19.8X2.5-SC	48.22

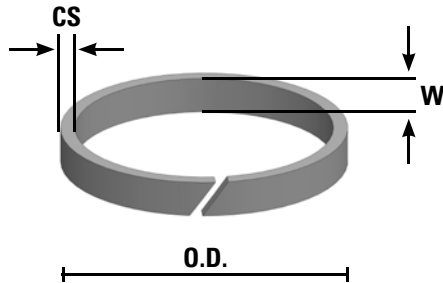
PART NUMBER	LIST PRICE
MWRF-165X20X2.5-SC	\$ 46.06
MWRF-170X17.5X6-SC	45.14
MWRF-170X19.5X3.2-SC	41.32
MWRF-180X19.8X2-SC	75.89
MWRF-190X19.5X3.2-SC	44.58
MWRF-60X9.5X2.5-SC	53.28
MWRF-65X9.5X2.5-SC	86.69
MWRF-70X9.5X2.5-SC	60.29
MWRF-75X9.5X2.5-SC	70.13
MWRF-76X19.2X3-SC	76.80
MWRF-85X15X4-SC	56.42
MWRF-85X8X2.5-SC	43.07
MWRF-86X19.2X3-SC	81.84
MWRF-86X19.8X3-SC	80.66
MWRF-90X15X2.5-SC	48.24
MWRF-90X15X4-SC	59.12
MWRF-95X15X4-SC	73.11
MWRF-95X6X4-SC	106.10
MWRF-95X8X2.5-SC	63.74
MWRF-95X9.5X5-SC	70.18
MWRF-96X19.2X3-SC	91.21



METRIC

[SEAL INFORMATION]

MWRT



MATERIAL	PTFE FILLED
TEMPERATURE RANGE	-100° TO +500° F
COMPRESSIVE STRENGTH	1,700 PSI
TENSILE STRENGTH	2,200 PSI
PART NUMBER	(Prefix) - (OD) X (W) X (CS)

Made from filled PTFE, these rings are suitable for light-duty bearing service, but are more often installed on the outboard ends of a piston to catch metal particles and protect the seal area.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MWRT-55X11.8X4	\$ 59.62	MWRT-95X15X4	\$ 52.85	MWRT-135X8X4	\$ 46.06	MWRT-165X19.9X2.5	\$ 97.55
MWRT-65X9.5X2.5	36.09	MWRT-100X5.9X4-B4	39.32	MWRT-135X9.7X4	45.14	MWRT-170X6X4	65.31
MWRT-70X4X2.5-SC	26.61	MWRT-100X6X4	37.11	MWRT-135X15X2.5	48.03	MWRT-170X8X4-B4	87.36
MWRT-70X5.5X2.5-B4	55.02	MWRT-100X14.8X4	76.23	MWRT-140X6X4	41.32	MWRT-170X9.7X4	65.54
MWRT-70X6X4	56.98	MWRT-105X6X4	61.32	MWRT-140X8X4	44.58	MWRT-175X6X4	91.72
MWRT-70X9.6X2.5	79.67	MWRT-110X5.9X4	42.91	MWRT-140X9.7X4	53.28	MWRT-175X19.7X2.5	71.63
MWRT-70X12X4	49.09	MWRT-110X5.9X4-B4	44.12	MWRT-140X19.7X4	81.02	MWRT-180X8.9X4-B4	120.57
MWRT-70X19.5X2.5	102.94	MWRT-110X9.7X4	22.04	MWRT-145X6X4	60.29	MWRT-190X6X4	72.76
MWRT-75X6X4-SC	53.21	MWRT-110X14.8X4	76.84	MWRT-145X7.9X4	63.64	MWRT-190X8X4	65.83
MWRT-75X11.8X4	79.32	MWRT-110X15X2.5	69.17	MWRT-145X7.9X4.5	76.80	MWRT-190X8.9X4-B4	137.50
MWRT-75X19.5X2.5	100.98	MWRT-115X6X4	38.74	MWRT-145X9.5X4	39.71	MWRT-190X9.5X4	64.13
MWRT-80X4X4	31.66	MWRT-115X8X4	37.62	MWRT-145X9.7X4	56.42	MWRT-190X9.7X4	71.73
MWRT-80X6X4	54.21	MWRT-115X9.5X4	33.38	MWRT-145X20X2.5	60.84	MWRT-190X14.8X4	91.22
MWRT-80X11.8X4	81.68	MWRT-120X6X4	31.48	MWRT-150X6X4	35.22	MWRT-200X8.9X4-B4	121.13
MWRT-85X4X4-SC	35.34	MWRT-120X8X4	40.86	MWRT-150X6X4-B4	81.84	MWRT-200X9.7X2.5	61.53
MWRT-85X6X4-SC	39.80	MWRT-120X15X2.5	61.19	MWRT-150X8X4	48.24	MWRT-200X9.7X4	80.91
MWRT-85X15X4	78.13	MWRT-125X6X4	45.25	MWRT-150X9.7X4	52.08	MWRT-200X19.8X2.5	122.07
MWRT-85X19.5X2.5	86.76	MWRT-125X8X4	42.11	MWRT-155X19.9X2.5	69.62	MWRT-215X9.7X4	84.69
MWRT-90X4.4X3.8	48.68	MWRT-125X9.7X4	57.78	MWRT-160X6X4-B4	73.11	MWRT-220X8.9X4-B4	128.16
MWRT-90X6X4	31.22	MWRT-130X4.75X4	55.06	MWRT-160X9.5X4	63.74	MWRT-225X9.7X4-B4	144.41
MWRT-90X9.5X4	29.10	MWRT-130X6X4	59.46	MWRT-160X9.7X4	63.69	MWRT-230X14.8X4-SC	113.29
MWRT-90X9.6X2.5	42.42	MWRT-130X8X4	44.54	MWRT-165X6X4	91.21	MWRT-240X14.9X4-SC	126.82
MWRT-90X10X2.5	53.83	MWRT-130X11.6X2.5	81.28	MWRT-165X9.5X4	58.28	MWRT-260X14.8X4-SC	129.33
MWRT-90X14.8X4	84.05	MWRT-130X14.9X2.5	46.74	MWRT-165X9.7X2.5	52.76		
MWRT-95X6X4	34.24	MWRT-135X6X4	48.22	MWRT-165X9.7X4	89.52		

[SEAL INFORMATION]

MGF



MATERIAL	FABRIC REINFORCED POLYESTER
TEMPERATURE RANGE	-40° TO +250° F
COMPRESSIVE STRENGTH	8,000 PSI
PART NUMBER	(Prefix) - (W) X (TH)

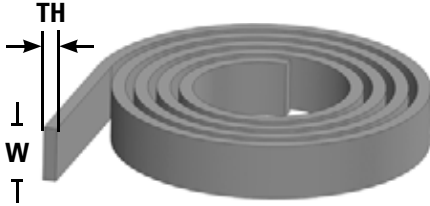
Genuine close tolerance Hallite™ wear guide bearings on a coil, cut to length. Made of a woven, fabric-reinforced polyester resin, this wear guide strip is compatible with a wide range of fluids, can withstand extreme side loads and has micro-indentations on its surface to trap fluid and provide built-in lubrication.

PART NUMBER	LIST PRICE
MGF-5.6X2.5	\$ 14.93
MGF-9.7X2.5	15.60

PART NUMBER	LIST PRICE
MGF-13X2.5	\$ 18.52
MGF-15X2.5	19.55

PART NUMBER	LIST PRICE
MGF-20X2.5	\$ 25.97
MGF-25X2.5	26.85



[SEAL INFORMATION]**MGB**

MATERIAL	60% BRONZE FILLED PTFE
TEMPERATURE RANGE	-50° TO +390° F
COMPRESSIVE STRENGTH	1,700 PSI
PART NUMBER	(Prefix) - (W) X (TH)

Manufactured to a large variety of widths and thicknesses, this material affords low friction capabilities but with low compressive strength. The material also has the capability of ingesting metal particles and keeping them from the seal area.

PART NUMBER	LIST PRICE
MGB-4X2.5	\$ 11.95
MGB-5.5X2.5	19.08
MGB-6X2	21.11
MGB-6X4	26.68
MGB-6.1X2.5	14.70
MGB-7.9X2.5	14.70
MGB-7.9X4	30.74

PART NUMBER	LIST PRICE
MGB-8X2	\$ 23.41
MGB-8.9X4	36.89
MGB-9.5X2.5	18.50
MGB-9.5X4	30.42
MGB-10X2	20.15
MGB-12X4	40.60
MGB-14X3.5	28.39

PART NUMBER	LIST PRICE
MGB-14.5X4	\$ 47.60
MGB-15X2	15.77
MGB-15X2.5	23.96
MGB-15X4	29.63
MGB-20X2	17.88
MGB-20X2.5	27.82
MGB-25X1.5	18.02

PART NUMBER	LIST PRICE
MGB-25X2.5	\$ 27.84
MGB-25X3.5	31.64
MGB-25X4	41.43
MGB-30X2.5	30.42
MGB-30X3	34.34
MGB-50X2	37.19



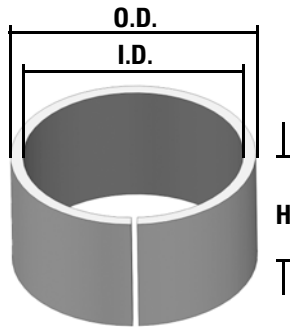
MDU ROD BUSHINGS

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WEAR RINGS

[SEAL INFORMATION]

MDU



MATERIAL

BRONZE LINING, PTFE/
LEAD OVERLAY, STEEL
BACKING

TEMPERATURE RANGE

-325° TO +536° F

**COMPRESSIVE
STRENGTH**

44,000 PSI

PART NUMBER

(Prefix) - (ID) X (OD) X (H)

With a steel body, bronze liner and PTFE / lead overlay, these bushings possess excellent wearability and tremendous compressive strength.

PART NUMBER	LIST PRICE
MDU-6X8X6	\$ 1.36
MDU-16X18X15	2.21
MDU-16X18X20	2.53
MDU-16X18X25	2.92
MDU-20X23X15	2.99
MDU-20X23X25	4.04
MDU-20X23X30	4.49
MDU-22X25X20	3.39
MDU-25X28X15	3.31
MDU-25X28X20	3.39
MDU-25X28X25	4.97
MDU-25X28X30	4.96
MDU-25X28X40	6.07
MDU-30X34X12	5.20
MDU-30X34X25	6.07
MDU-30X34X40	8.30
MDU-32X36X40	7.74
MDU-35X39X25	6.74
MDU-35X39X50	11.68
MDU-38X42X32	8.34
MDU-40X44X20	2.40
MDU-40X44X25	7.63
MDU-40X44X30	8.95
MDU-40X44X40	9.00
MDU-40X44X50	13.02
MDU-45X50X20	7.63
MDU-45X50X30	10.51
MDU-45X50X50	14.61
MDU-50X55X12	6.74
MDU-50X55X25	10.62

PART NUMBER	LIST PRICE
MDU-50X55X30	\$ 12.72
MDU-50X55X40	15.74
MDU-50X55X50	17.53
MDU-50X55X60	20.46
MDU-55X60X12	6.98
MDU-55X60X25	11.24
MDU-55X60X30	15.02
MDU-55X60X30-C	17.73
MDU-55X60X35-C	20.35
MDU-55X60X40	15.96
MDU-55X60X50	19.12
MDU-55X60X60	22.24
MDU-60X65X15	7.31
MDU-60X65X30	15.28
MDU-60X65X35	16.88
MDU-60X65X35-C	21.89
MDU-60X65X40	19.84
MDU-60X65X50	22.02
MDU-60X65X70	28.76
MDU-65X70X15	10.36
MDU-65X70X30	17.78
MDU-65X70X35	18.50
MDU-65X70X40	21.04
MDU-65X70X60	27.20
MDU-70X75X15	16.58
MDU-70X75X20	17.67
MDU-70X75X30	20.08
MDU-70X75X40	24.19
MDU-70X75X40-C	26.46
MDU-70X75X50	26.51

PART NUMBER	LIST PRICE
MDU-75X80X30	\$ 22.22
MDU-75X80X35	23.05
MDU-75X80X40	25.39
MDU-75X80X40-C	28.93
MDU-75X80X50	27.88
MDU-75X80X60	33.71
MDU-80X85X15	24.89
MDU-80X85X30	25.61
MDU-80X85X40	27.83
MDU-80X85X40-C	34.21
MDU-80X85X50	31.71
MDU-80X85X60	34.95
MDU-85X90X30	28.45
MDU-85X90X40	30.37
MDU-85X90X50	33.03
MDU-85X90X70	42.68
MDU-90X95X20	26.09
MDU-90X95X30	27.43
MDU-90X95X30-C	35.21
MDU-90X95X35	32.23
MDU-90X95X40	35.03
MDU-90X95X40-C	36.89
MDU-90X95X45	36.48
MDU-90X95X60	31.46
MDU-95X100X30	30.89
MDU-95X100X35	34.65
MDU-95X100X40	36.36
MDU-95X100X40-C	44.69
MDU-95X100X50	39.13
MDU-100X105X20	23.81

PART NUMBER	LIST PRICE
MDU-100X105X30	\$ 34.15
MDU-100X105X35	42.35
MDU-100X105X40	42.68
MDU-100X105X40-C	39.33
MDU-100X105X50	48.78
MDU-100X105X60	50.79
MDU-105X110X35	36.41
MDU-105X110X40	38.41
MDU-105X110X40-C	54.92
MDU-105X110X50	46.51
MDU-105X110X60	52.38
MDU-110X115X20	34.15
MDU-110X115X35	37.44
MDU-110X115X40	43.17
MDU-110X115X45	48.53
MDU-110X115X50	69.22
MDU-110X115X50-C	43.02
MDU-110X115X55	72.06
MDU-110X115X60	73.98
MDU-115X120X35	41.89
MDU-115X120X45	50.37
MDU-115X120X50	54.39
MDU-120X125X20	40.24
MDU-120X125X35	39.83
MDU-120X125X40	53.26
MDU-120X125X50	61.37
MDU-120X125X60	67.88
MDU-125X130X35	46.18
MDU-125X130X50	62.93
MDU-130X135X35	72.27



METRIC



MDU ROD BUSHINGS**WEAR RINGS**

PART NUMBER	LIST PRICE
MDU-130X135X40	\$ 61.14
MDU-130X135X50	64.95
MDU-130X135X50-C	49.54
MDU-130X135X60	70.52
MDU-130X135X80	76.82

PART NUMBER	LIST PRICE
MDU-135X140X60	\$ 79.67
MDU-140X145X35	84.15
MDU-140X145X40	81.94
MDU-140X145X50	94.50
MDU-140X145X55	88.64

PART NUMBER	LIST PRICE
MDU-140X145X60	\$ 89.00
MDU-140X145X70	96.65
MDU-150X155X40	87.32
MDU-150X155X60	89.34
MDU-160X165X40	93.12

PART NUMBER	LIST PRICE
MDU-160X165X50	\$ 97.11
MDU-180X185X90	130.17

METRIC

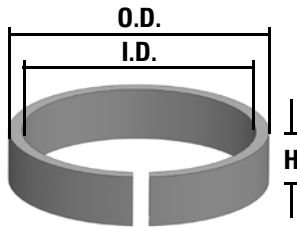
MWR-FD ROD BUSHINGS

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WEAR RINGS

[SEAL INFORMATION]

MWR-FD



Molded from a sturdy nylon material, these bushings are found chiefly in Ford metric cylinders.

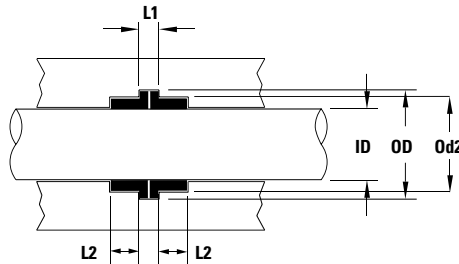
PART NUMBER	LIST PRICE
MWR-56X50X18-FD	\$ 8.71
MWR-56X55X28-FD	8.71
MWR-62X56X28-FD	9.32
MWR-69X63X28-FD	9.96

MATERIAL	NYLON
TEMPERATURE RANGE	-40° TO +250° F
COMPRESSIVE STRENGTH	35,000 PSI
TENSILE STRENGTH	27,000 PSI
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

MRA-L ROD BUSHINGS

[SEAL INFORMATION]

MRA-L



MATERIAL	ACETAL
TEMPERATURE RANGE	-40° TO +250° F
PART NUMBER	(Prefix) - (ID) X (OD) X (H)

Primarily a British design, this ring can be installed one or two in a groove. Excellent wear characteristics.

PART NUMBER	ID	OD	Od2	L1	L2	LIST PRICE
MRA-45X53X18-L	45	53	18	8	14	\$ 4.11
MRA-60X68X18-L	60	68	18	8	14	4.11
MRA-60X71X16-L	60	71	66	10	11	7.34
MRA-75X83X18-L	75	83	18	8	14	8.51
MRA-78X89X16-L	78	89	84	10	11	9.25
MRA-92X100X18-L	92	100	18	8	14	10.12

PART NUMBER	ID	OD	Od2	L1	L2	LIST PRICE
MRA-99X110X16-L	99	110	105	10	11	\$ 11.72
MRA-120X131X16-L	120	131	126	10	11	14.52
MRA-141X152X16-L	141	152	147	10	11	6.29
MRA-162X173X16-L	162	173	168	10	11	6.89
MRA-183X194X16-L	183	194	189	10	11	7.98
MRA-207X218X16-L	207	218	213	10	11	9.88

METRIC



[SEAL INFORMATION]

MOS



MATERIAL

RUBBER SEAL
STEEL CASE

TEMPERATURE RANGE

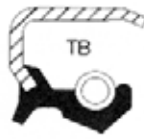
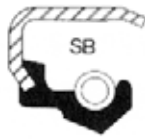
-65° TO +225° F

PRESSURE RANGE

10 PSI @ 1000 FPM

PART NUMBER

(Prefix) - (ID) X (OD) X (H)



PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MOS-5X15X6TC	\$ 4.41	MOS-13X19X3VG	\$ 4.17	MOS-17X28X7TC	\$ 4.55	MOS-19X34X7TC	\$ 4.90
MOS-7X22X7TC	4.31	MOS-13X22X5SC	4.13	MOS-17X29X7TC	4.55	MOS-19X35X7TC	5.39
MOS-8X14X4TC	4.55	MOS-13X25X4SC	4.20	MOS-17X30X6TC	4.55	MOS-19X37X7TC	5.90
MOS-8X15X5SC	4.05	MOS-13X25X7SC	4.55	MOS-17X30X7TC	4.71	MOS-20X26X4VC	4.79
MOS-8X16X7TC	4.05	MOS-13X35X7TC	5.34	MOS-17X30X8TC	4.55	MOS-20X26X4VM	4.90
MOS-8X18X5TC	4.05	MOS-14X20X3TC	9.62	MOS-17X32X7TC	4.90	MOS-20X28X4TM	6.39
MOS-8X22X7TC	4.45	MOS-14X22X4TC	4.45	MOS-17X35X8TC	4.90	MOS-20X30X7TC	4.55
MOS-8X25X8TC	4.45	MOS-14X24X6TC	4.45	MOS-17X38X7TC	5.90	MOS-20X31X7SC	4.90
MOS-10X19X7TC	4.05	MOS-14X24X7TC	4.45	MOS-17X40X5TC	5.99	MOS-20X32X7TC	5.39
MOS-10X20X7TC	4.05	MOS-14X25X5TC	4.45	MOS-17X40X7SC	5.39	MOS-20X33X5TC	5.39
MOS-10X21X5TC	4.45	MOS-14X25X7SC	4.17	MOS-17X47X7TC	6.93	MOS-20X34X7TC	5.39
MOS-10X22X7TC	4.45	MOS-14X26X7TC	4.55	MOS-18X24X3KC	4.13	MOS-20X35X6TC	5.39
MOS-10X23X7TC	4.45	MOS-14X28X7TC	4.55	MOS-18X26X4SC	4.20	MOS-20X35X7TC	5.45
MOS-10X24X7SC	4.13	MOS-14X32X7TC	4.90	MOS-18X28X4SC	4.20	MOS-20X35X8TC	5.83
MOS-10X30X7SC	4.20	MOS-15X24X7TC	5.58	MOS-18X28X7TC	5.60	MOS-20X36X7TC	5.90
MOS-12X16X3VG	4.27	MOS-15X25X7TC	4.45	MOS-18X30X7TC	5.99	MOS-20X38X8TC	5.99
MOS-12X19X3VC	4.05	MOS-15X28X7TC	4.17	MOS-18X30X7TM	6.39	MOS-20X40X7TC	5.99
MOS-12X19X7TC	4.05	MOS-15X30X7TC	4.61	MOS-18X30X8TC	4.55	MOS-20X40X10TC	5.99
MOS-12X20X4TC	4.05	MOS-15X32X7TC	5.99	MOS-18X32X7TC	5.39	MOS-20X42X7TC	6.39
MOS-12X20X5TC	4.05	MOS-15X35X7TC	5.39	MOS-18X35X7TC	5.39	MOS-20X45X7TC	6.39
MOS-12X22X7TC	4.45	MOS-16X20X2.5VM	4.13	MOS-18X38X10TC	5.90	MOS-20X47X7TC	6.93
MOS-12X24X7TC	4.45	MOS-16X26X6TC	4.55	MOS-18X40X7TC	5.90	MOS-20X52X10TC	7.62
MOS-12X25X7TC	4.55	MOS-16X28X7TC	4.68	MOS-18X40X7VTC	26.31	MOS-22X28X4KC	4.86
MOS-12X26X7TC	4.55	MOS-16X30X7TC	4.68	MOS-19X29X7TC	4.55	MOS-22X32X5SC	4.90
MOS-12X26X8TC	4.20	MOS-16X35X7TC	5.39	MOS-19X30X7TC	4.90	MOS-22X32X7SC	4.90
MOS-12X28X7TC	4.55	MOS-17X23X3VG	3.75	MOS-19X32X8TC	5.94	MOS-22X32X7TC	5.39



OIL SEALS

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OIL SEALS

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MOS-22X35X5TC	\$ 5.39	MOS-25X52X7TC	\$ 7.62	MOS-30X62X7SC	\$ 8.32	MOS-38X52X7TC	\$ 9.06
MOS-22X35X6TC	5.39	MOS-25X52X10TC	7.88	MOS-30X62X7TC	9.06	MOS-38X52X10TC	5.45
MOS-22X35X7TC	5.39	MOS-25X62X7TC	9.16	MOS-30X72X10TC	10.89	MOS-38X55X8TC	9.06
MOS-22X35X8TC	5.39	MOS-25X62X12TC	9.31	MOS-32X42X7TC	6.39	MOS-38X58X10TC	7.62
MOS-22X36X7TC	5.90	MOS-26X35X7TC	5.20	MOS-32X43X7TC	6.39	MOS-40X50X8TC	9.06
MOS-22X38X7TC	6.87	MOS-26X37X7TC	5.83	MOS-32X44X8TC	6.39	MOS-40X52X5TC	9.06
MOS-22X40X7TC	6.87	MOS-26X38X8TC	4.36	MOS-32X45X7TC	6.39	MOS-40X52X7SC	6.97
MOS-22X42X7SCY	6.39	MOS-26X40X7TC	5.83	MOS-32X48X7TC	6.97	MOS-40X52X7TC	9.06
MOS-22X42X7TC	6.87	MOS-26X52X8TC	7.62	MOS-32X48X8TC	6.97	MOS-40X54X7TC	9.06
MOS-22X52X10TC	8.21	MOS-27X38X7TC	5.83	MOS-32X52X7SC	6.93	MOS-40X55X7TC	9.06
MOS-23X34X8TC	6.79	MOS-27X43X8TC	6.39	MOS-32X52X8TC	5.45	MOS-40X55X8TC	9.06
MOS-23X35X7TC	6.27	MOS-28X35X5TC	5.34	MOS-32X52X11TC	7.62	MOS-40X56X7TC	9.90
MOS-24X32X4VG	5.39	MOS-28X37X6TC	8.27	MOS-32X55X8TC	7.62	MOS-40X58X8TC	9.90
MOS-24X35X7TC	6.39	MOS-28X38X5TC	7.26	MOS-33X40X3VM	6.34	MOS-40X58X10SC	11.50
MOS-24X36X7TC	6.27	MOS-28X38X7TC	5.83	MOS-33X45X7SC	5.83	MOS-40X60X10TC	10.80
MOS-24X40X7TC	6.87	MOS-28X40X5TC	6.39	MOS-33X50X8TC	6.93	MOS-40X62X7TC	7.22
MOS-24X52X10TC	8.58	MOS-28X40X7TC	6.39	MOS-34X48X7TC	6.93	MOS-40X62X10TC	10.74
MOS-25X32X4VVM	14.57	MOS-28X42X7TC	6.39	MOS-34X52X10SC	6.39	MOS-40X62X12TC	9.16
MOS-25X35X6TC	9.40	MOS-28X42X8TC	6.39	MOS-34X54X11TC	7.62	MOS-40X68X7TC	11.89
MOS-25X35X6VTC	18.32	MOS-28X43X7SC	7.48	MOS-34X72X10SC	9.99	MOS-40X68X10SC	9.95
MOS-25X35X7SC	4.90	MOS-28X47X7TC	6.93	MOS-35X45X5VM	13.13	MOS-40X68X10TC	17.68
MOS-25X35X7TC	6.27	MOS-28X47X10TC	6.93	MOS-35X45X7TC	6.73	MOS-40X72X10TC	13.27
MOS-25X35X7VTC	18.32	MOS-28X48X8TC	6.93	MOS-35X46X7TC	6.97	MOS-40X75X12TC	12.96
MOS-25X35X8TC	6.27	MOS-28X48X11TC	6.93	MOS-35X47X7TC	6.97	MOS-40X80X10TC	15.64
MOS-25X36X7TC	6.27	MOS-28X50X8TC	6.93	MOS-35X48X8TC	8.21	MOS-41X54X11DC	12.90
MOS-25X38X7TC	6.87	MOS-30X38X4SC	5.34	MOS-35X50X7TC	8.21	MOS-42X52X8TC	9.06
MOS-25X38X8TC	6.87	MOS-30X40X7SB	6.35	MOS-35X50X8TC	8.21	MOS-42X55X7TC	9.06
MOS-25X40X5TC	5.83	MOS-30X40X7TC	5.83	MOS-35X50X10TC	8.42	MOS-42X58X10TC	9.91
MOS-25X40X7SC	5.34	MOS-30X42X6TC	6.39	MOS-35X52X7TC	9.06	MOS-42X60X9TC	10.80
MOS-25X40X7TC	5.83	MOS-30X42X7TC	6.39	MOS-35X52X7VTF	19.91	MOS-42X62X8TC	10.80
MOS-25X40X8SB	6.35	MOS-30X42X8TC	6.39	MOS-35X52X8TC	7.32	MOS-42X65X12TC	10.80
MOS-25X40X8TC	5.83	MOS-30X43X8TC	6.39	MOS-35X54X8TC	9.06	MOS-44X60X7TC	10.80
MOS-25X40X10TC	6.35	MOS-30X44X7TC	7.46	MOS-35X55X8TC	9.06	MOS-44X62X8TC	10.80
MOS-25X42X6SC	5.83	MOS-30X45X6TC	6.39	MOS-35X55X10TC	9.06	MOS-44X62X10TC	6.58
MOS-25X42X6TC	6.39	MOS-30X45X8TC	6.39	MOS-35X55X11TC	9.06	MOS-44X72X10TC	13.27
MOS-25X42X7TC	6.39	MOS-30X46X8TC	6.93	MOS-35X55X12TC	9.06	MOS-45X52X4VB	9.69
MOS-25X44X7TC	6.39	MOS-30X47X7TC	6.93	MOS-35X60X10SC	8.32	MOS-45X55X4VC	6.27
MOS-25X45X8TC	6.39	MOS-30X47X8TC	7.14	MOS-35X62X10TC	9.90	MOS-45X58X7TC	9.90
MOS-25X45X10TC	6.39	MOS-30X48X8TC	6.93	MOS-35X72X8TC	12.96	MOS-45X60X7TC	8.32
MOS-25X47X7TC	7.88	MOS-30X50X7TC	6.93	MOS-36X47X7TC	8.21	MOS-45X62X6KB	8.32
MOS-25X47X8TC	6.93	MOS-30X52X7TC	7.14	MOS-36X50X10SC	6.97	MOS-45X62X7TC	9.16
MOS-25X47X10TC	6.93	MOS-30X52X8TC	7.28	MOS-36X58X10TC	9.90	MOS-45X62X7VTC	20.98
MOS-25X48X8TC	6.93	MOS-30X55X7TC	10.81	MOS-37X50X7TC	9.06	MOS-45X62X8TC	9.16
MOS-25X50X10TC	6.93	MOS-30X60X8TC	7.88	MOS-38X50X7TC	9.06	MOS-45X62X9SC	9.16



METRIC

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MOS-45X62X10TC	\$ 9.16	MOS-52X62X8TC	\$ 9.06	MOS-68X90X10TC	\$ 14.36	MOS-90X110X12TC	\$ 20.79
MOS-45X65X7TC	9.16	MOS-54X68X10TC	9.95	MOS-70X80X10TC	11.98	MOS-90X115X13TB	27.24
MOS-45X65X8TC	9.16	MOS-55X68X8TC	9.95	MOS-70X85X8TC	13.08	MOS-90X118X12TC	25.06
MOS-45X65X12TC	9.16	MOS-55X70X7SC	9.16	MOS-70X90X7TC	14.36	MOS-90X120X13TC	25.06
MOS-45X68X8TC	9.95	MOS-55X70X8TC	9.95	MOS-70X90X10TC	14.36	MOS-95X120X12TC	25.06
MOS-45X68X10TC	9.99	MOS-55X72X8TC	10.89	MOS-70X90X10VTF	42.04	MOS-95X130X12TC	30.22
MOS-45X68X12TC	11.89	MOS-55X72X10TC	10.89	MOS-70X90X12TC	14.36	MOS-98X130X13SB	32.88
MOS-45X72X8TC	10.89	MOS-55X75X10TC	10.89	MOS-70X95X13TC	15.74	MOS-100X125X12TC	27.54
MOS-45X72X10TC	10.89	MOS-55X78X12TC	11.98	MOS-70X100X10TC	15.78	MOS-105X130X12TC	32.59
MOS-45X80X10TC	11.98	MOS-55X80X10TC	11.98	MOS-70X110X10TC	20.79	MOS-105X135X14TC	31.78
MOS-46X65X9TC	9.16	MOS-55X85X10TC	13.08	MOS-75X95X10TC	15.78	MOS-110X130X12SC	30.22
MOS-46X66X10TC	9.99	MOS-55X90X10TC	14.36	MOS-75X100X10TC	17.27	MOS-110X130X12TC	33.27
MOS-48X62X8TC	9.16	MOS-58X80X10TC	11.98	MOS-75X100X12TC	21.56	MOS-110X140X12TC	33.37
MOS-48X65X10TC	9.16	MOS-60X75X8TC	10.89	MOS-75X100X12VSC	42.04	MOS-115X140X13TC	33.37
MOS-48X70X10TC	9.99	MOS-60X78X9TC	11.98	MOS-75X105X13TC	18.98	MOS-115X145X14TC	35.15
MOS-48X70X11TC	10.10	MOS-60X80X7VTC	31.49	MOS-75X110X10TC	20.79	MOS-120X150X12TC	36.98
MOS-48X72X10TC	10.89	MOS-60X80X7VTF	35.46	MOS-78X100X10SC	19.90	MOS-120X150X15TC	35.06
MOS-48X80X8TC	11.98	MOS-60X80X9TC	11.98	MOS-80X100X7TC	22.44	MOS-125X150X12VTF	131.27
MOS-50X60X8TC	8.32	MOS-60X80X10TC	11.98	MOS-80X100X10TC	17.27	MOS-125X155X14TC	47.09
MOS-50X62X7SM	13.82	MOS-60X80X12TC	11.98	MOS-80X100X12TC	17.27	MOS-130X150X10SC	49.08
MOS-50X62X7TC	9.06	MOS-60X82X12TC	11.98	MOS-80X105X10TC	18.98	MOS-130X160X12TC	40.94
MOS-50X65X6TC	9.16	MOS-60X85X10TC	13.08	MOS-80X105X13TC	18.98	MOS-140X160X12TC	40.94
MOS-50X65X8SB	9.90	MOS-60X95X10TC	15.74	MOS-80X110X10TC	20.79	MOS-140X170X13TC	36.00
MOS-50X65X8TC	9.16	MOS-62X78X8SB	10.89	MOS-80X110X12TC	25.50	MOS-150X180X15TC	52.24
MOS-50X68X8TC	9.95	MOS-62X80X10TC	11.98	MOS-80X115X13TC	22.83	MOS-160X200X12TC	64.11
MOS-50X70X10TC	9.95	MOS-62X85X8TC	13.08	MOS-82X105X12TC	18.98	MOS-162X190X12SC	52.64
MOS-50X72X8TC	10.89	MOS-63X90X10SC	13.08	MOS-85X100X12TC	17.27	MOS-170X190X13TC	57.89
MOS-50X72X12TC	10.89	MOS-65X77X12TB	12.03	MOS-85X105X10TC	18.98	MOS-175X200X15TC	64.11
MOS-50X75X12TC	10.89	MOS-65X80X8TC	15.56	MOS-85X110X10SC	18.98	MOS-180X220X13TC	78.74
MOS-50X80X8TC	11.98	MOS-65X85X8TC	13.08	MOS-85X110X12TC	20.79	MOS-190X220X15TC	78.74
MOS-50X80X12TC	11.98	MOS-65X85X10TC	13.08	MOS-85X110X13TC	20.79	MOS-200X230X13TC	87.20
MOS-50X85X8TC	13.08	MOS-65X88X12TC	14.36	MOS-85X120X12TC	12.12	MOS-240X270X15TC	98.83
MOS-50X90X10TC	14.36	MOS-65X90X10TC	14.36	MOS-90X105X10TC	18.98	MOS-250X280X15TC	112.75

O-RING SIZE CHART FOR METRIC SEALS

361

O-RINGS

JIS B 2401	WIDTH	I.D.	
P- 3	1.9 ±0.08	2.8 ±0.14	
P- 4		3.8 ±0.14	
P- 5		4.8 ±0.15	
P- 6		5.8 ±0.15	
P- 7		6.8 ±0.16	
P- 8		7.8 ±0.16	
P- 9		8.8 ±0.17	
P- 10		9.8 ±0.17	
P- 10A		2.4 ±0.09	9.8 ±0.17
P- 11			10.8 ±0.18
P- 11.2	11 ±0.18		
P- 12	11.8 ±0.19		
P- 12.5	12.3 ±0.19		
P- 14	13.8 ±0.19		
P- 15	14.8 ±0.20		
P- 16	15.8 ±0.20		
P- 18	17.8 ±0.21		
P- 20	19.8 ±0.22		
P- 21	20.8 ±0.23		
P- 22	21.8 ±0.24		
P- 22A	3.5 ±0.10	21.7 ±0.24	
P- 22.4		22.1 ±0.24	
P- 24		23.7 ±0.24	
P- 25		24.7 ±0.25	
P- 25.5		25.2 ±0.25	
P- 26		25.7 ±0.26	
P- 28		27.7 ±0.28	
P- 29		28.7 ±0.29	
P- 29.5		29.2 ±0.29	
P- 30		29.7 ±0.29	
P- 31		30.7 ±0.30	
P- 31.5		31.2 ±0.31	
P- 32		31.7 ±0.31	
P- 34		33.7 ±0.33	
P- 35		34.7 ±0.34	
P- 35.5		35.2 ±0.34	
P- 36		35.7 ±0.34	
P- 38		37.7 ±0.37	
P- 39		38.7 ±0.37	
P- 40		39.7 ±0.37	
P- 41		40.7 ±0.38	
P- 42		41.7 ±0.39	
P- 44		43.7 ±0.41	
P- 45		44.7 ±0.41	
P- 46		45.7 ±0.42	
P- 48		47.7 ±0.44	
P- 49		48.7 ±0.45	
P- 50		49.7 ±0.45	
P- 48A		5.7 ±1.13	47.6 ±0.45
P- 50A			49.6 ±0.45
P- 52	51.6 ±0.47		
P- 53	52.6 ±0.48		
P- 55	54.6 ±0.49		
P- 56	55.6 ±0.50		
P- 58	57.6 ±0.52		
P- 60	59.6 ±0.53		
P- 62	61.6 ±0.55		
P- 63	62.6 ±0.56		
P- 65	64.6 ±0.57		
P- 67	66.6 ±0.59		
P- 70	69.6 ±0.61		
P- 71	70.6 ±0.62		
P- 75	74.6 ±0.65		

JIS B 2401	WIDTH	I.D.
P- 80	5.7 ±0.13	79.6 ±0.69
P- 85		84.6 ±0.73
P- 90		89.6 ±0.77
P- 95		94.6 ±0.81
P- 100		99.6 ±0.84
P- 102		101.6 ±0.85
P- 105		104.6 ±0.87
P- 110		109.6 ±0.91
P- 112		111.6 ±0.92
P- 115		114.6 ±0.94
P- 120		119.6 ±0.98
P- 125		124.6 ±1.01
P- 130		129.6 ±1.05
P- 132		131.6 ±1.06
P- 135		134.6 ±1.09
P- 140	139.6 ±1.12	
P- 145	144.6 ±1.16	
P- 150	149.6 ±1.19	
P- 150A	8.4 ±0.15	149.5 ±1.19
P- 155		154.5 ±1.23
P- 160		159.5 ±1.26
P- 165		164.5 ±1.30
P- 170		169.5 ±1.33
P- 175		174.5 ±1.37
P- 180		179.5 ±1.40
P- 185		184.5 ±1.44
P- 190		189.5 ±1.48
P- 195		194.5 ±1.51
P- 200		199.5 ±1.55
P- 205		204.5 ±1.58
P- 209		208.5 ±1.61
P- 210		209.5 ±1.62
P- 215		214.5 ±1.65
P- 220		219.5 ±1.68
P- 225		224.5 ±1.71
P- 230		229.5 ±1.75
P- 235		234.5 ±1.78
P- 240		239.5 ±1.81
P- 245		244.5 ±1.84
P- 250		249.5 ±1.88
P- 255		254.5 ±1.91
P- 260		259.5 ±1.94
P- 265		264.5 ±1.97
P- 270		269.5 ±2.01
P- 275		274.5 ±2.04
P- 280		279.5 ±2.07
P- 285		284.5 ±2.10
P- 290		289.5 ±2.14
P- 295	294.5 ±2.17	
P- 300	299.5 ±2.20	
P- 315	314.5 ±2.30	
P- 320	319.5 ±2.33	
P- 335	334.5 ±2.42	
P- 340	339.5 ±2.45	
P- 355	354.5 ±2.54	
P- 360	359.5 ±2.57	
P- 375	374.5 ±2.67	
P- 385	384.5 ±2.73	
P- 400	399.5 ±2.82	

JIS B 2401	WIDTH	I.D.
G- 25	3.1 ±0.1	24.4 ±0.25
G- 30		29.4 ±0.29
G- 35		34.4 ±0.33
G- 40		39.4 ±0.37
G- 45		44.4 ±0.41
G- 50		49.4 ±0.45
G- 55		54.4 ±0.49
G- 60		59.4 ±0.53
G- 65		64.4 ±0.57
G- 70		69.4 ±0.61
G- 75		74.4 ±0.65
G- 80		79.4 ±0.69
G- 85		84.4 ±0.73
G- 90		89.4 ±0.77
G- 95		94.4 ±0.81
G- 100	99.4 ±0.85	
G- 105	104.4 ±0.87	
G- 110	109.4 ±0.91	
G- 115	114.4 ±0.94	
G- 120	119.4 ±0.98	
G- 125	124.4 ±1.01	
G- 130	129.4 ±1.05	
G- 135	134.4 ±1.08	
G- 140	139.4 ±1.12	
G- 145	144.4 ±1.16	
G- 150	5.7 ±0.13	149.3 ±1.19
G- 155		154.3 ±1.23
G- 160		159.3 ±1.26
G- 165		164.3 ±1.30
G- 170		169.3 ±1.33
G- 175		174.3 ±1.37
G- 180		179.3 ±1.40
G- 185		184.3 ±1.44
G- 190		189.3 ±1.47
G- 195		194.3 ±1.51
G- 200		199.3 ±1.55
G- 205		204.3 ±1.58
G- 210		209.3 ±1.61
G- 215		214.3 ±1.64
G- 220		219.3 ±1.68
G- 225		224.3 ±1.71
G- 230		229.3 ±1.73
G- 235		234.3 ±1.77
G- 240		239.3 ±1.81
G- 245		244.3 ±1.84
G- 250		249.3 ±1.88
G- 255		254.3 ±1.91
G- 260		259.3 ±1.94
G- 265		264.3 ±1.97
G- 270		269.3 ±2.01
G- 275		274.3 ±2.04
G- 280		279.3 ±2.07
G- 285		284.3 ±2.10
G- 290		289.3 ±2.14
G- 295		294.3 ±2.17
G- 300	299.3 ±2.20	
G- 305	304.3 ±2.24	
G- 310	309.3 ±2.27	
G- 315	314.3 ±2.30	
G- 320	319.3 ±2.33	
G- 325	324.3 ±2.36	
G- 330	329.3 ±2.39	



METRIC

O-RING SIZE CHART FOR METRIC SEALS

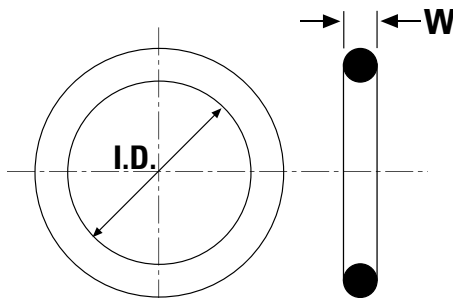
O-RINGS

JIS B 2401	WIDTH	I.D.	
G-335	5.7 ±0.13	334.3 ±2.42	
G-340		339.3 ±2.45	
G-345		344.3 ±2.48	
G-350		349.3 ±2.51	
G-355		354.3 ±2.54	
G-360		359.3 ±2.57	
G-365		364.3 ±2.60	
G-370		369.3 ±2.63	
G-375		374.3 ±2.67	
G-380		379.3 ±2.70	
G-385		384.3 ±2.73	
G-390		389.3 ±2.76	
G-395		394.3 ±2.79	
G-400		399.3 ±2.82	
V-15		4 ±0.10	14.5 ±0.20
V-24			23.5 ±0.24
V-34	33.5 ±0.33		
V-40	39.5 ±0.37		
V-55	54.5 ±0.49		
V-70	69 ±0.61		
V-85	84 ±0.72		
V-100	99 ±0.83		
V-120	119 ±0.97		
V-150	148.5 ±1.18		
V-175	173 ±1.36		
V-225	6 ±0.15	222.5 ±1.70	
V-275		272 ±2.02	
V-325		321.5 ±2.34	
V-380		376 ±2.68	
V-430	425.5 ±2.99		
V-480	10 ±0.30	475 ±3.30	
V-530		524.5 ±3.60	
V-585		579 ±3.92	
V-640		633.5 ±4.24	
V-690		683 ±4.54	
V-740		732.5 ±4.83	
V-790		782 ±5.12	
V-845		836.5 ±5.44	
V-950		940.5 ±6.06	
V-1055		1044 ±6.67	

SM - O RINGS	WIDTH	I.D.	
SM-3	1.5 ±0.1	2.5 ±0.15	
SM-4		3.5 ±0.15	
SM-5		4.5 ±0.15	
SM-6		5.5 ±0.15	
SM-7		6.5 ±0.15	
SM-8		7.5 ±0.15	
SM-9		8.5 ±0.15	
SM-10		9.5 ±0.15	
SM-11.2		10.7 ±0.15	
SM-12		11.5 ±0.15	
SM-12.5		12 ±0.15	
SM-14		13.5 ±0.15	
SM-15		14.5 ±0.15	
SM-16		15.5 ±0.15	
SM-18		17.5 ±0.15	
SM-20		19.5 ±0.15	
SM-22		21.5 ±0.15	
SM-22.4		2.0 ±0.1	21.9 ±0.15
SM-24			23.5 ±0.15
SM-25			24.5 ±0.15
SM-26			25.5 ±0.15
SM-28			27.5 ±0.15
SM-29	28.5 ±0.15		
SM-30	29.5 ±0.15		
SM-31.5	31 ±0.15		
SM-32	31.5 ±0.15		
SM-34	33.5 ±0.15		
SM-35	34.5 ±0.15		
SM-35.5	35 ±0.15		
SM-36	35.5 ±0.15		
SM-38	37.5 ±0.15		
SM-39	38.5 ±0.15		
SM-40	39.5 ±0.15		
SM-42	41.5 ±0.25		
SM-44	43.5 ±0.25		
SM-45	44.5 ±0.25		
SM-46	45.5 ±0.25		
SM-48	47.5 ±0.25		
SM-50	49.5 ±0.25		
SM-53	52.5 ±0.25		
SM-55	54.5 ±0.25		
SM-56	55.5 ±0.25		
SM-60	59.5 ±0.25		
SM-63	62.5 ±0.25		
SM-65	64.5 ±0.25		
SM-67	66.5 ±0.25		
SM-70	69.5 ±0.25		
SM-71	70.5 ±0.4		
SM-75	74.5 ±0.4		
SM-80	79.5 ±0.4		
SM-85	84.5 ±0.4		
SM-90	89.5 ±0.4		
SM-95	94.5 ±0.4		
SM-100	99.5 ±0.4		
SM-105	104.5 ±0.4		
SM-110	109.5 ±0.4		
SM-112	111.5 ±0.4		
SM-115	114.5 ±0.4		
SM-120	119.5 ±0.4		
SM-125	124.5 ±0.4		
SM-130	129.5 ±0.6		
SM-132	131.5 ±0.6		

SM - O RINGS	WIDTH	I.D.
SM-135	1.7 ±0.08	134.5 ±0.6
SM-140		139.5 ±0.6
SM-145		144.5 ±0.6
SM-150		149.5 ±0.6

KS-O RINGS	WIDTH	I.D.
KS-1	1.7 ±0.08	2.75 ±0.13
KS-2		3.75 ±0.13
KS-3		4.75 ±0.13
KS-4		5.75 ±0.13
KS-5		6.75 ±0.13
KS-6		7.75 ±0.13
KS-7		8.75 ±0.13
KS-8		9.75 ±0.13
KS-9	2.25 ±0.08	9.7 ±0.13
KS-10		11.7 ±0.13
KS-11		13.7 ±0.13
KS-12		15.7 ±0.13
KS-13		17.7 ±0.13
KS-14		19.7 ±0.13
KS-15	3.3 ±0.10	19.6 ±0.15
KS-16		21.6 ±0.15
KS-17		23.6 ±0.15
KS-18		24.6 ±0.15
KS-19		25.6 ±0.15
KS-20		27.6 ±0.15
KS-21		29.6 ±0.15
KS-22		31.6 ±0.15
KS-23		33.6 ±0.15
KS-24		35.6 ±0.15
KS-25		37.6 ±0.15
KS-26		39.6 ±0.15

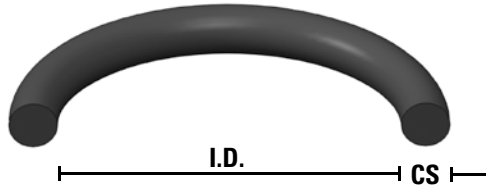


METRIC



[SEAL INFORMATION]

N70



MATERIAL	70 DURO NITRILE
TEMPERATURE RANGE	-40° TO +220° F
PART NUMBER	(ID) X (CS)

Please specify 70 or 90 Durometer when ordering.
O-Ring stock orders require \$2 line minimum (5 or more lines).

PART NUMBER	JIS#	LIST PRICE
003.00X1.00-N70	—	\$ 0.08
004.00X1.00-N70	—	0.14
005.00X1.00-N70	—	0.20
006.00X1.00-N70	—	0.10
008.00X1.00-N70	—	0.10
010.00X1.00-N70	—	0.12
015.00X1.00-N70	—	0.10
016.00X1.00-N70	—	0.30
019.00X1.00-N70	—	0.30
021.00X1.00-N70	—	0.33
026.00X1.00-N70	—	0.33
002.50X1.50-N70	—	0.37
003.00X1.50-N70	—	0.11
003.50X1.50-N70	—	0.11
004.00X1.50-N70	—	0.14
005.00X1.50-N70	—	0.08
006.00X1.50-N70	—	0.08
007.00X1.50-N70	—	0.16
008.00X1.50-N70	—	0.17
008.50X1.50-N70	—	0.17
009.00X1.50-N70	—	0.08
010.00X1.50-N70	—	0.08
011.00X1.50-N70	—	0.21
012.00X1.50-N70	—	0.08
013.00X1.50-N70	—	0.08
014.00X1.50-N70	—	0.24
015.00X1.50-N70	—	0.08
016.00X1.50-N70	—	0.08
017.00X1.50-N70	—	0.33
017.50X1.50-N70	—	0.10
018.00X1.50-N70	—	0.10
019.00X1.50-N70	—	0.10
020.00X1.50-N70	—	0.10
022.00X1.50-N70	—	0.13
023.00X1.50-N70	—	0.10
025.00X1.50-N70	—	0.12
026.00X1.50-N70	—	0.43

PART NUMBER	JIS#	LIST PRICE
027.00X1.50-N70	—	\$ 0.12
028.00X1.50-N70	—	0.12
030.00X1.50-N70	—	0.43
032.00X1.50-N70	—	0.55
035.00X1.50-N70	—	0.55
036.00X1.50-N70	—	0.62
041.00X1.50-N70	—	0.62
042.00X1.50-N70	—	0.29
043.00X1.50-N70	—	0.29
044.00X1.50-N70	—	0.28
045.00X1.50-N70	—	0.29
046.00X1.50-N70	—	0.78
047.00X1.50-N70	—	0.78
053.00X1.50-N70	—	0.49
057.00X1.50-N70	—	0.54
064.00X1.50-N70	—	0.58
065.00X1.50-N70	—	0.56
071.00X1.50-N70	—	0.61
072.00X1.50-N70	—	0.68
077.00X1.50-N70	—	0.64
095.00X1.50-N70	—	0.79
002.20X1.60-N70	—	0.10
003.10X1.60-N70	—	0.11
004.10X1.60-N70	—	0.11
005.10X1.60-N70	—	0.15
006.10X1.60-N70	—	0.16
007.10X1.60-N70	—	0.31
008.10X1.60-N70	—	0.35
009.10X1.60-N70	—	0.36
010.10X1.60-N70	—	0.36
011.10X1.60-N70	—	0.41
012.10X1.60-N70	—	0.42
013.10X1.60-N70	—	0.47
014.10X1.60-N70	—	0.51
015.10X1.60-N70	—	0.51
016.10X1.60-N70	—	0.65
017.10X1.60-N70	—	0.68

PART NUMBER	JIS#	LIST PRICE
018.10X1.60-N70	—	\$ 0.72
019.10X1.60-N70	—	0.72
022.10X1.60-N70	—	1.94
025.10X1.60-N70	—	2.31
027.10X1.60-N70	—	2.31
029.10X1.60-N70	—	2.56
032.10X1.60-N70	—	4.84
035.10X1.60-N70	—	4.84
037.10X1.60-N70	—	4.84
104.40X1.78-N70	—	21.40
006.30X1.80-N70	—	0.20
007.50X1.80-N70	—	0.21
009.50X1.80-N70	—	0.22
010.60X1.80-N70	—	0.29
012.50X1.80-N70	—	0.30
002.80X1.90-N70	P3	0.08
003.80X1.90-N70	P4	0.08
004.80X1.90-N70	P5	0.08
005.80X1.90-N70	P6	0.08
006.80X1.90-N70	P7	0.10
007.80X1.90-N70	P8	0.10
008.80X1.90-N70	P9	0.10
009.80X1.90-N70	P10	0.10
015.80X1.90-N70	—	0.12
003.00X2.00-N70	—	0.08
004.00X2.00-N70	—	0.15
005.00X2.00-N70	—	0.08
006.00X2.00-N70	—	0.08
007.00X2.00-N70	—	0.08
008.00X2.00-N70	—	0.08
009.00X2.00-N70	—	0.17
010.00X2.00-N70	—	0.08
011.00X2.00-N70	—	0.10
012.00X2.00-N70	—	0.21
012.50X2.00-N70	—	0.22
013.00X2.00-N70	—	0.10
014.00X2.00-N70	—	0.10

O-RINGS



METRIC

PART NUMBER	JIS#	LIST PRICE
015.00X2.00-N70	—	\$ 0.10
016.00X2.00-N70	—	0.10
017.00X2.00-N70	—	0.11
018.00X2.00-N70	—	0.11
019.00X2.00-N70	—	0.11
020.00X2.00-N70	—	0.20
021.00X2.00-N70	—	0.20
022.00X2.00-N70	—	0.37
023.00X2.00-N70	—	0.20
023.50X2.00-N70	—	0.37
024.00X2.00-N70	—	0.21
024.50X2.00-N70	—	0.24
026.00X2.00-N70	—	0.25
027.00X2.00-N70	—	0.25
028.00X2.00-N70	—	0.27
028.50X2.00-N70	—	0.56
030.00X2.00-N70	—	0.31
031.00X2.00-N70	—	0.31
034.00X2.00-N70	—	0.31
035.00X2.00-N70	—	0.55
036.00X2.00-N70	—	0.31
037.00X2.00-N70	—	0.35
037.50X2.00-N70	—	0.36
039.00X2.00-N70	—	0.41
039.50X2.00-N70	—	0.41
042.00X2.00-N70	—	0.41
043.00X2.00-N70	—	0.41
044.00X2.00-N70	—	0.42
045.00X2.00-N70	—	0.42
046.00X2.00-N70	—	0.56
048.00X2.00-N70	—	0.58
050.00X2.00-N70	—	0.58
052.00X2.00-N70	—	0.58
053.00X2.00-N70	—	0.58
055.00X2.00-N70	—	0.66
056.00X2.00-N70	—	0.66
057.00X2.00-N70	—	0.68
058.00X2.00-N70	—	0.68
063.00X2.00-N70	—	0.68
064.50X2.00-N70	—	0.71
066.00X2.00-N70	—	0.98
067.00X2.00-N70	—	0.98
068.00X2.00-N70	—	0.98
069.50X2.00-N70	—	0.98
070.00X2.00-N70	—	0.99
072.00X2.00-N70	—	0.99
073.00X2.00-N70	—	1.02
074.00X2.00-N70	—	1.05
074.50X2.00-N70	—	1.10

PART NUMBER	JIS#	LIST PRICE
076.00X2.00-N70	—	\$ 1.10
078.00X2.00-N70	—	1.12
079.50X2.00-N70	—	1.12
080.00X2.00-N70	—	1.12
084.50X2.00-N70	—	1.12
085.00X2.00-N70	—	1.16
086.00X2.00-N70	—	1.16
090.00X2.00-N70	—	1.17
093.00X2.00-N70	—	1.17
100.00X2.00-N70	—	1.39
114.50X2.00-N70	—	1.95
003.30X2.40-N70	—	0.08
003.60X2.40-N70	—	0.25
004.30X2.40-N70	—	0.25
004.60X2.40-N70	—	0.25
005.30X2.40-N70	—	0.25
005.60X2.40-N70	—	0.27
006.30X2.40-N70	—	0.29
006.60X2.40-N70	—	0.29
007.30X2.40-N70	—	0.29
007.60X2.40-N70	—	0.29
008.30X2.40-N70	—	0.39
008.60X2.40-N70	—	0.39
009.30X2.40-N70	—	0.41
009.60X2.40-N70	—	0.41
009.80X2.40-N70	P10A	0.18
010.30X2.40-N70	—	0.41
010.60X2.40-N70	—	0.42
010.80X2.40-N70	P11	0.20
011.00X2.40-N70	P11.2	0.20
011.30X2.40-N70	—	0.41
011.60X2.40-N70	—	0.47
011.80X2.40-N70	P12	0.47
012.30X2.40-N70	P12.5	0.49
012.60X2.40-N70	—	0.50
012.80X2.40-N70	—	0.39
013.30X2.40-N70	—	0.49
013.80X2.40-N70	P14	0.23
014.30X2.40-N70	—	0.78
014.80X2.40-N70	P15	0.66
015.80X2.40-N70	P16	0.24
016.30X2.40-N70	—	0.86
016.60X2.40-N70	—	0.51
017.30X2.40-N70	—	0.87
017.60X2.40-N70	—	0.79
017.80X2.40-N70	P18	0.24
018.80X2.40-N70	—	0.25
019.60X2.40-N70	—	0.52
019.80X2.40-N70	P20	0.83

PART NUMBER	JIS#	LIST PRICE
020.80X2.40-N70	P21	\$ 0.11
021.80X2.40-N70	P22	0.28
027.30X2.40-N70	—	1.02
027.60X2.40-N70	—	1.16
029.60X2.40-N70	—	1.26
031.60X2.40-N70	—	1.36
034.60X2.40-N70	—	1.09
037.60X2.40-N70	—	1.17
039.60X2.40-N70	—	1.34
044.60X2.40-N70	—	1.37
047.60X2.40-N70	—	1.46
049.60X2.40-N70	—	1.48
051.60X2.40-N70	—	1.55
052.80X2.40-N70	—	1.06
054.60X2.40-N70	—	1.54
055.50X2.40-N70	—	2.06
057.60X2.40-N70	—	1.73
059.60X2.40-N70	—	1.74
059.70X2.40-N70	—	2.10
061.60X2.40-N70	—	1.77
064.60X2.40-N70	—	1.82
067.60X2.40-N70	—	1.87
069.60X2.40-N70	—	1.94
004.00X2.50-N70	—	0.17
005.00X2.50-N70	—	0.17
006.00X2.50-N70	—	0.17
007.00X2.50-N70	—	0.17
008.00X2.50-N70	—	0.08
009.00X2.50-N70	—	0.08
010.00X2.50-N70	—	0.10
011.00X2.50-N70	—	0.10
012.00X2.50-N70	—	0.10
013.00X2.50-N70	—	0.11
014.00X2.50-N70	—	0.11
015.00X2.50-N70	—	0.11
016.00X2.50-N70	—	0.33
017.00X2.50-N70	—	0.12
018.00X2.50-N70	—	0.33
019.00X2.50-N70	—	0.33
020.00X2.50-N70	—	0.37
021.00X2.50-N70	—	0.16
022.00X2.50-N70	—	0.20
023.00X2.50-N70	—	0.20
024.00X2.50-N70	—	0.21
025.00X2.50-N70	—	0.24
026.00X2.50-N70	—	0.24
027.00X2.50-N70	—	0.24
028.00X2.50-N70	—	0.24
029.00X2.50-N70	—	0.25

70 DURO NITRILE O-RINGS

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O-RINGS

PART NUMBER	JIS#	LIST PRICE
030.00X2.50-N70	—	\$ 0.25
031.00X2.50-N70	—	0.55
032.00X2.50-N70	—	0.25
035.00X2.50-N70	—	0.55
036.00X2.50-N70	—	0.62
037.00X2.50-N70	—	0.35
037.50X2.50-N70	—	0.42
038.00X2.50-N70	—	0.42
039.00X2.50-N70	—	0.47
040.00X2.50-N70	—	0.47
042.00X2.50-N70	—	0.47
045.00X2.50-N70	—	0.49
046.00X2.50-N70	—	0.52
047.00X2.50-N70	—	0.52
048.00X2.50-N70	—	0.52
049.00X2.50-N70	—	0.54
050.00X2.50-N70	—	0.54
053.00X2.50-N70	—	0.60
054.00X2.50-N70	—	0.60
055.00X2.50-N70	—	0.66
057.00X2.50-N70	—	0.66
058.00X2.50-N70	—	0.68
059.00X2.50-N70	—	0.68
060.00X2.50-N70	—	0.61
063.00X2.50-N70	—	0.91
065.00X2.50-N70	—	0.92
067.00X2.50-N70	—	0.92
069.00X2.50-N70	—	1.05
070.00X2.50-N70	—	1.05
072.00X2.50-N70	—	1.06
073.00X2.50-N70	—	1.06
075.00X2.50-N70	—	1.07
076.00X2.50-N70	—	1.07
080.00X2.50-N70	—	1.27
085.00X2.50-N70	—	1.28
090.00X2.50-N70	—	1.29
094.00X2.50-N70	—	1.34
100.00X2.50-N70	—	1.57
116.00X2.50-N70	—	1.93
120.00X2.50-N70	—	1.94
140.00X2.50-N70	—	2.00
014.00X2.65-N70	—	0.20
015.00X2.65-N70	—	0.22
016.00X2.65-N70	—	0.22
018.00X2.65-N70	—	0.24
025.00X2.65-N70	—	0.29
030.00X2.65-N70	—	0.36
005.00X3.00-N70	—	0.17
006.00X3.00-N70	—	0.10
008.00X3.00-N70	—	0.11

PART NUMBER	JIS#	LIST PRICE
009.00X3.00-N70	—	\$ 0.11
009.50X3.00-N70	—	0.12
010.00X3.00-N70	—	0.12
011.00X3.00-N70	—	0.12
012.00X3.00-N70	—	0.24
013.00X3.00-N70	—	0.17
014.00X3.00-N70	—	0.17
015.00X3.00-N70	—	0.20
016.00X3.00-N70	—	0.20
017.00X3.00-N70	—	0.21
018.00X3.00-N70	—	0.22
019.00X3.00-N70	—	0.22
019.20X3.00-N70	—	0.22
020.00X3.00-N70	—	0.24
021.00X3.00-N70	—	0.25
022.00X3.00-N70	—	0.25
022.20X3.00-N70	—	0.27
023.00X3.00-N70	—	0.27
024.00X3.00-N70	—	0.27
024.20X3.00-N70	—	2.59
025.00X3.00-N70	—	0.29
026.00X3.00-N70	—	0.29
027.00X3.00-N70	—	0.30
028.00X3.00-N70	—	0.30
029.00X3.00-N70	—	0.35
030.00X3.00-N70	—	0.35
031.00X3.00-N70	—	0.36
032.00X3.00-N70	—	0.36
033.00X3.00-N70	—	0.39
034.00X3.00-N70	—	0.39
035.00X3.00-N70	—	0.42
036.00X3.00-N70	—	0.42
036.20X3.00-N70	—	0.47
036.50X3.00-N70	—	0.49
037.50X3.00-N70	—	0.50
038.00X3.00-N70	—	0.50
039.00X3.00-N70	—	0.50
040.00X3.00-N70	—	0.52
041.50X3.00-N70	—	1.01
042.00X3.00-N70	—	0.54
042.20X3.00-N70	—	0.54
043.00X3.00-N70	—	0.54
044.00X3.00-N70	—	0.58
045.00X3.00-N70	—	0.58
046.00X3.00-N70	—	0.60
047.00X3.00-N70	—	0.60
048.00X3.00-N70	—	0.60
049.50X3.00-N70	—	0.66
051.00X3.00-N70	—	0.68
052.00X3.00-N70	—	0.68

PART NUMBER	JIS#	LIST PRICE
054.00X3.00-N70	—	\$ 0.68
054.50X3.00-N70	—	0.68
055.00X3.00-N70	—	0.68
056.00X3.00-N70	—	0.71
057.00X3.00-N70	—	0.71
058.00X3.00-N70	—	0.71
059.00X3.00-N70	—	0.72
059.50X3.00-N70	—	0.72
060.00X3.00-N70	—	0.72
062.00X3.00-N70	—	0.72
064.00X3.00-N70	—	0.88
064.50X3.00-N70	—	0.91
065.00X3.00-N70	—	0.96
066.00X3.00-N70	—	1.06
067.00X3.00-N70	—	1.06
068.00X3.00-N70	—	1.06
069.00X3.00-N70	—	1.06
070.00X3.00-N70	—	1.06
072.00X3.00-N70	—	1.09
074.00X3.00-N70	—	1.09
074.50X3.00-N70	—	1.12
075.00X3.00-N70	—	1.16
076.00X3.00-N70	—	1.17
077.00X3.00-N70	—	1.17
078.00X3.00-N70	—	1.18
079.00X3.00-N70	—	1.18
079.50X3.00-N70	—	1.19
080.00X3.00-N70	—	1.19
082.00X3.00-N70	—	1.29
085.00X3.00-N70	—	1.29
086.00X3.00-N70	—	1.36
088.00X3.00-N70	—	1.36
089.00X3.00-N70	—	1.36
090.00X3.00-N70	—	1.37
092.00X3.00-N70	—	1.37
094.50X3.00-N70	—	1.38
095.00X3.00-N70	—	1.45
096.00X3.00-N70	—	1.38
097.00X3.00-N70	—	1.39
099.00X3.00-N70	—	1.48
100.00X3.00-N70	—	1.48
104.00X3.00-N70	—	1.51
104.50X3.00-N70	—	1.51
106.00X3.00-N70	—	1.53
108.00X3.00-N70	—	1.53
109.50X3.00-N70	—	1.53
110.00X3.00-N70	—	1.53
114.50X3.00-N70	—	1.54
115.00X3.00-N70	—	1.54
118.00X3.00-N70	—	1.55



METRIC

PART NUMBER	JIS#	LIST PRICE
120.00X3.00-N70	—	\$ 1.67
125.00X3.00-N70	—	1.58
128.00X3.00-N70	—	1.64
130.00X3.00-N70	—	2.44
132.00X3.00-N70	—	1.77
135.00X3.00-N70	—	1.78
139.50X3.00-N70	—	1.80
145.00X3.00-N70	—	1.80
149.00X3.00-N70	—	1.82
150.00X3.00-N70	—	1.83
155.00X3.00-N70	—	2.70
160.00X3.00-N70	—	2.71
170.00X3.00-N70	—	2.76
175.00X3.00-N70	—	3.12
180.00X3.00-N70	—	3.14
194.00X3.00-N70	—	3.53
205.00X3.00-N70	—	3.58
210.00X3.00-N70	—	3.91
215.00X3.00-N70	—	4.84
220.00X3.00-N70	—	4.85
225.00X3.00-N70	—	4.96
240.00X3.00-N70	—	5.71
245.00X3.00-N70	—	12.89
260.00X3.00-N70	—	10.30
024.40X3.10-N70	G25	0.35
029.40X3.10-N70	G30	0.41
032.00X3.10-N70	—	1.79
034.40X3.10-N70	G35	0.54
039.40X3.10-N70	G40	0.68
044.40X3.10-N70	G45	2.06
049.40X3.10-N70	G50	2.75
054.40X3.10-N70	G55	0.88
057.40X3.10-N70	—	0.98
059.40X3.10-N70	G60	0.99
064.40X3.10-N70	G65	1.05
069.40X3.10-N70	G70	1.27
074.40X3.10-N70	G75	1.51
079.40X3.10-N70	G80	1.53
084.40X3.10-N70	G85	5.45
089.40X3.10-N70	G90	1.58
094.40X3.10-N70	G95	6.40
099.40X3.10-N70	G100	1.77
104.40X3.10-N70	G105	1.80
109.40X3.10-N70	G110	7.70
114.40X3.10-N70	G115	2.34
119.40X3.10-N70	G120	2.44
124.40X3.10-N70	G125	8.34
129.40X3.10-N70	G130	2.50
134.40X3.10-N70	G135	9.26
139.40X3.10-N70	G140	5.13

PART NUMBER	JIS#	LIST PRICE
144.40X3.10-N70	G145	\$ 3.01
149.40X3.10-N70	—	4.23
016.60X3.30-N70	—	1.94
014.00X3.50-N70	—	0.35
015.00X3.50-N70	—	0.35
016.00X3.50-N70	—	0.41
020.00X3.50-N70	—	0.24
021.00X3.50-N70	—	0.25
021.70X3.50-N70	P22A	0.30
022.00X3.50-N70	—	0.30
022.10X3.50-N70	P22.4	1.01
023.70X3.50-N70	P24	1.34
024.70X3.50-N70	P25	0.31
025.00X3.50-N70	—	0.29
025.20X3.50-N70	P25.5	1.17
025.70X3.50-N70	P26	0.39
027.70X3.50-N70	P28	0.41
028.70X3.50-N70	P29	0.41
029.20X3.50-N70	P29.5	1.34
029.70X3.50-N70	P30	0.55
030.00X3.50-N70	—	0.42
030.70X3.50-N70	P31	0.42
031.20X3.50-N70	P31.5	0.42
031.70X3.50-N70	P32	0.42
033.70X3.50-N70	P34	0.52
034.70X3.50-N70	P35	1.80
035.20X3.50-N70	P35.5	1.35
035.70X3.50-N70	P36	1.61
037.00X3.50-N70	—	0.54
037.70X3.50-N70	P38	0.55
038.00X3.50-N70	—	0.55
038.70X3.50-N70	P39	0.55
039.70X3.50-N70	P40	2.41
040.70X3.50-N70	P41	2.41
041.70X3.50-N70	P42	0.58
042.00X3.50-N70	—	0.65
043.70X3.50-N70	P43	0.75
044.70X3.50-N70	P45	0.76
045.70X3.50-N70	P46	0.76
046.00X3.50-N70	—	0.70
047.70X3.50-N70	P48	0.78
048.70X3.50-N70	P49	0.78
049.70X3.50-N70	P50	0.81
050.00X3.50-N70	—	0.78
052.00X3.50-N70	—	0.78
056.00X3.50-N70	—	1.13
058.00X3.50-N70	—	0.81
060.00X3.50-N70	—	0.85
063.00X3.50-N70	—	1.05
065.00X3.50-N70	—	1.09

PART NUMBER	JIS#	LIST PRICE
069.00X3.50-N70	—	\$ 1.10
071.00X3.50-N70	—	1.12
073.00X3.50-N70	—	1.26
086.00X3.50-N70	—	1.51
105.00X3.50-N70	—	1.48
112.00X3.50-N70	—	1.53
118.00X3.50-N70	—	1.53
120.00X3.50-N70	—	1.74
127.00X3.50-N70	—	4.66
132.00X3.50-N70	—	4.79
145.00X3.50-N70	—	2.51
170.00X3.50-N70	—	3.15
175.00X3.50-N70	—	3.58
180.00X3.50-N70	—	3.62
200.00X3.50-N70	—	3.77
202.00X3.50-N70	—	4.84
210.00X3.50-N70	—	4.85
009.00X4.00-N70	—	0.24
011.00X4.00-N70	—	0.24
012.00X4.00-N70	—	0.24
014.00X4.00-N70	—	0.26
014.50X4.00-N70	V15	0.39
015.00X4.00-N70	—	0.28
016.00X4.00-N70	—	0.49
017.00X4.00-N70	—	1.88
019.00X4.00-N70	—	0.32
020.00X4.00-N70	—	0.32
021.00X4.00-N70	—	0.32
022.00X4.00-N70	—	0.53
023.00X4.00-N70	—	0.30
023.50X4.00-N70	V24	0.30
024.00X4.00-N70	—	0.30
025.00X4.00-N70	—	0.35
027.00X4.00-N70	—	0.36
028.00X4.00-N70	—	0.36
030.00X4.00-N70	—	0.41
031.00X4.00-N70	—	0.42
032.00X4.00-N70	—	0.50
033.00X4.00-N70	—	0.50
034.00X4.00-N70	—	0.50
035.00X4.00-N70	—	0.51
037.00X4.00-N70	—	0.54
038.00X4.00-N70	—	0.54
040.00X4.00-N70	—	0.56
041.00X4.00-N70	—	0.58
042.00X4.00-N70	—	0.58
044.00X4.00-N70	—	0.60
045.00X4.00-N70	—	0.60
047.00X4.00-N70	—	0.75
048.00X4.00-N70	—	0.75

70 DURO NITRILE O-RINGS

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O-RINGS

PART NUMBER	JIS#	LIST PRICE
050.00X4.00-N70	—	\$ 0.81
052.00X4.00-N70	—	0.85
054.00X4.00-N70	—	0.86
055.00X4.00-N70	—	0.86
056.00X4.00-N70	—	0.86
057.00X4.00-N70	—	0.87
058.00X4.00-N70	—	0.87
060.00X4.00-N70	—	1.05
062.00X4.00-N70	—	1.06
064.00X4.00-N70	—	1.06
065.00X4.00-N70	—	1.07
066.00X4.00-N70	—	1.26
067.00X4.00-N70	—	1.27
068.00X4.00-N70	—	1.27
070.00X4.00-N70	—	1.27
072.00X4.00-N70	—	1.29
075.00X4.00-N70	—	1.38
076.00X4.00-N70	—	1.51
078.00X4.00-N70	—	1.51
080.00X4.00-N70	—	1.53
082.00X4.00-N70	—	1.55
084.00X4.00-N70	V85	1.54
086.00X4.00-N70	—	1.55
089.00X4.00-N70	—	1.57
090.00X4.00-N70	—	1.57
092.00X4.00-N70	—	1.63
095.00X4.00-N70	—	1.64
096.00X4.00-N70	—	1.93
098.00X4.00-N70	—	1.93
100.00X4.00-N70	—	1.93
102.00X4.00-N70	—	1.96
104.00X4.00-N70	—	1.98
105.00X4.00-N70	—	1.98
108.00X4.00-N70	—	2.00
110.00X4.00-N70	—	2.04
112.00X4.00-N70	—	2.05
114.00X4.00-N70	—	2.05
115.00X4.00-N70	—	2.05
116.00X4.00-N70	—	2.06
117.00X4.00-N70	—	2.06
118.00X4.00-N70	—	2.06
119.00X4.00-N70	V120	2.07
120.00X4.00-N70	—	2.07
124.00X4.00-N70	—	2.10
126.00X4.00-N70	—	2.13
127.00X4.00-N70	—	2.13
128.00X4.00-N70	—	2.18
129.00X4.00-N70	—	2.18
130.00X4.00-N70	—	2.18
132.00X4.00-N70	—	2.21

PART NUMBER	JIS#	LIST PRICE
133.00X4.00-N70	—	\$ 2.21
134.00X4.00-N70	—	2.24
136.00X4.00-N70	—	2.24
137.00X4.00-N70	—	2.24
140.00X4.00-N70	—	2.30
142.00X4.00-N70	—	2.30
146.00X4.00-N70	—	2.34
150.00X4.00-N70	—	2.56
155.00X4.00-N70	—	2.44
160.00X4.00-N70	—	2.44
164.00X4.00-N70	—	6.84
170.00X4.00-N70	—	2.74
172.00X4.00-N70	—	4.98
177.00X4.00-N70	—	5.04
180.00X4.00-N70	—	5.10
200.00X4.00-N70	—	6.26
240.00X4.00-N70	—	8.00
250.00X4.00-N70	—	8.07
265.00X4.00-N70	—	8.14
270.00X4.00-N70	—	8.14
285.00X4.00-N70	—	10.30
287.00X4.00-N70	—	38.84
438.00X4.00-N70	—	23.42
015.00X5.00-N70	—	0.32
016.00X5.00-N70	—	0.56
019.00X5.00-N70	—	0.39
020.00X5.00-N70	—	0.41
021.00X5.00-N70	—	0.41
022.00X5.00-N70	—	0.42
024.00X5.00-N70	—	0.50
027.00X5.00-N70	—	0.52
028.00X5.00-N70	—	0.52
030.00X5.00-N70	—	0.61
032.00X5.00-N70	—	0.66
035.00X5.00-N70	—	0.72
040.00X5.00-N70	—	0.88
042.00X5.00-N70	—	0.91
044.00X5.00-N70	—	0.92
045.00X5.00-N70	—	0.96
050.00X5.00-N70	—	1.07
052.00X5.00-N70	—	1.10
055.00X5.00-N70	—	1.12
058.00X5.00-N70	—	1.10
060.00X5.00-N70	—	1.28
065.00X5.00-N70	—	1.36
068.00X5.00-N70	—	1.38
070.00X5.00-N70	—	1.39
073.00X5.00-N70	—	1.57
075.00X5.00-N70	—	1.58
078.00X5.00-N70	—	1.63

PART NUMBER	JIS#	LIST PRICE
080.00X5.00-N70	—	\$ 1.64
082.00X5.00-N70	—	1.68
085.00X5.00-N70	—	1.69
092.00X5.00-N70	—	1.83
095.00X5.00-N70	—	1.98
097.00X5.00-N70	—	2.15
100.00X5.00-N70	—	2.21
105.00X5.00-N70	—	2.25
107.00X5.00-N70	—	2.25
108.00X5.00-N70	—	2.25
110.00X5.00-N70	—	2.27
112.00X5.00-N70	—	2.30
118.00X5.00-N70	—	3.76
120.00X5.00-N70	—	2.61
121.00X5.00-N70	—	2.61
122.00X5.00-N70	—	2.62
125.00X5.00-N70	—	2.64
130.00X5.00-N70	—	2.65
138.00X5.00-N70	—	2.74
140.00X5.00-N70	—	2.76
150.00X5.00-N70	—	2.56
155.00X5.00-N70	—	3.56
158.00X5.00-N70	—	3.57
160.00X5.00-N70	—	3.58
165.00X5.00-N70	—	3.80
173.00X5.00-N70	—	8.95
175.00X5.00-N70	—	3.82
180.00X5.00-N70	—	3.98
195.00X5.00-N70	—	4.59
200.00X5.00-N70	—	4.65
205.00X5.00-N70	—	12.47
220.00X5.00-N70	—	6.44
225.00X5.00-N70	—	7.80
235.00X5.00-N70	—	8.66
240.00X5.00-N70	—	8.76
245.00X5.00-N70	—	8.92
250.00X5.00-N70	—	9.10
255.00X5.00-N70	—	9.20
265.00X5.00-N70	—	9.64
275.00X5.00-N70	—	9.73
290.00X5.00-N70	—	11.93
300.00X5.00-N70	—	11.93
330.00X5.00-N70	—	12.05
345.00X5.00-N70	—	13.44
350.00X5.00-N70	—	13.43
375.00X5.00-N70	—	15.47
395.00X5.00-N70	—	16.22
040.00X5.30-N70	—	0.88
045.00X5.30-N70	—	1.09
050.00X5.30-N70	—	1.10



METRIC

PART NUMBER	JIS#	LIST PRICE
058.00X5.30-N70	—	\$ 1.38
063.00X5.30-N70	—	1.75
150.00X5.30-N70	—	3.07
170.00X5.30-N70	—	4.07
047.60X5.70-N70	—	1.98
049.60X5.70-N70	P50A	2.04
051.60X5.70-N70	P52	2.07
052.60X5.70-N70	P53	2.10
054.60X5.70-N70	P55	2.15
055.60X5.70-N70	P56	2.21
057.60X5.70-N70	P58	2.89
059.20X5.70-N70	P60	2.64
059.60X5.70-N70	—	2.92
061.60X5.70-N70	P62	3.59
062.60X5.70-N70	P63	3.62
064.60X5.70-N70	P65	3.71
066.60X5.70-N70	P67	3.77
069.60X5.70-N70	P70	3.72
070.60X5.70-N70	P71	3.82
074.30X5.70-N70	—	1.93
074.60X5.70-N70	P75	3.98
079.30X5.70-N70	—	2.05
079.60X5.70-N70	P80	4.07
084.30X5.70-N70	—	2.13
084.60X5.70-N70	P85	4.22
089.30X5.70-N70	—	2.15
089.60X5.70-N70	P90	4.31
094.30X5.70-N70	—	2.64
094.60X5.70-N70	P95	4.46
099.30X5.70-N70	—	2.65
099.60X5.70-N70	P100	4.55
101.60X5.70-N70	P102	5.71
104.30X5.70-N70	—	2.69
104.60X5.70-N70	P105	5.80
109.30X5.70-N70	—	2.71
109.60X5.70-N70	P110	5.91
111.60X5.70-N70	P112	5.96
114.60X5.70-N70	P115	6.01
119.60X5.70-N70	P120	6.13
124.30X5.70-N70	—	3.02
124.60X5.70-N70	P125	6.23
129.30X5.70-N70	—	3.15
129.60X5.70-N70	P130	6.27
131.60X5.70-N70	P132	6.31
134.30X5.70-N70	—	3.30
134.60X5.70-N70	P135	6.37
139.30X5.70-N70	—	6.06
139.60X5.70-N70	P140	6.46
144.30X5.70-N70	—	3.56
144.60X5.70-N70	P145	6.56

PART NUMBER	JIS#	LIST PRICE
149.30X5.70-N70	G150	\$ 4.90
149.60X5.70-N70	P150	7.81
154.30X5.70-N70	G155	4.96
159.30X5.70-N70	G160	4.93
164.30X5.70-N70	G165	4.98
169.30X5.70-N70	G170	5.08
174.30X5.70-N70	G175	6.84
179.30X5.70-N70	G180	12.84
184.30X5.70-N70	G185	6.98
189.30X5.70-N70	G190	7.04
194.30X5.70-N70	G195	7.12
199.30X5.70-N70	G200	8.30
209.30X5.70-N70	G210	8.46
214.30X5.70-N70	G215	8.48
219.30X5.70-N70	G220	8.63
224.30X5.70-N70	G225	8.76
229.30X5.70-N70	G230	8.76
234.30X5.70-N70	G235	9.39
239.30X5.70-N70	G240	9.56
249.30X5.70-N70	G250	10.08
254.30X5.70-N70	G255	11.02
259.30X5.70-N70	G260	11.07
269.30X5.70-N70	G270	11.16
274.30X5.70-N70	G275	10.67
279.30X5.70-N70	G280	11.78
289.30X5.70-N70	G290	12.45
299.30X5.70-N70	G300	12.53
304.30X5.70-N70	G305	14.68
309.30X5.70-N70	G310	14.68
339.30X5.70-N70	G340	0.00
344.30X5.70-N70	G345	12.79
359.30X5.70-N70	G360	17.02
399.30X5.70-N70	G400	22.45
404.30X5.70-N70	—	22.74
424.30X5.70-N70	—	23.19
429.30X5.70-N70	—	21.77
434.30X5.70-N70	—	24.25
439.30X5.70-N70	—	24.67
444.30X5.70-N70	—	24.85
449.30X5.70-N70	—	22.70
459.30X5.70-N70	—	26.19
464.30X5.70-N70	—	26.37
469.30X5.70-N70	—	26.65
474.30X5.70-N70	—	24.61
479.30X5.70-N70	—	27.26
484.30X5.70-N70	—	24.97
489.30X5.70-N70	—	27.63
494.30X5.70-N70	—	27.83
499.30X5.70-N70	—	28.31
020.00X6.00-N70	—	0.78

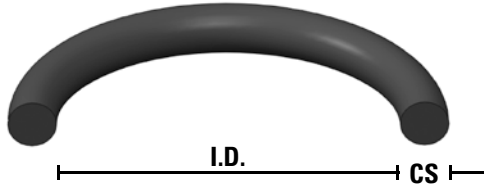
PART NUMBER	JIS#	LIST PRICE
025.00X6.00-N70	—	\$ 0.82
030.00X6.00-N70	—	0.89
037.00X6.00-N70	—	1.18
046.00X6.00-N70	—	1.19
050.00X6.00-N70	—	1.07
114.00X6.00-N70	—	4.74
160.00X6.00-N70	—	4.15
144.10X8.40-N70	—	10.53
149.50X8.40-N70	P150A	20.08
154.50X8.40-N70	P155	11.29
159.50X8.40-N70	P160	21.35
164.10X8.40-N70	—	11.45
164.50X8.40-N70	P165	11.45
169.50X8.40-N70	P170	11.45
174.50X8.40-N70	P175	23.47
179.50X8.40-N70	P180	12.08
184.50X8.40-N70	P185	12.22
189.50X8.40-N70	P190	12.40
194.50X8.40-N70	P195	26.32
199.50X8.40-N70	P200	12.72
204.50X8.40-N70	P205	12.89
208.50X8.40-N70	P209	13.94
209.50X8.40-N70	P210	15.63
214.50X8.40-N70	P215	14.27
219.50X8.40-N70	P220	14.27
224.50X8.40-N70	P225	14.43
229.50X8.40-N70	P230	32.03
234.50X8.40-N70	P235	24.00
239.50X8.40-N70	P240	24.13
244.50X8.40-N70	P245	24.26
249.50X8.40-N70	P250	24.45
254.50X8.40-N70	P255	24.64
259.50X8.40-N70	P260	24.79
264.50X8.40-N70	P265	22.69
269.50X8.40-N70	P270	25.03
274.50X8.40-N70	P275	23.09
279.50X8.40-N70	P280	25.41
284.50X8.40-N70	P285	25.56
289.50X8.40-N70	P290	25.73
294.50X8.40-N70	P295	26.55
299.50X8.40-N70	P300	49.80
314.50X8.40-N70	P315	31.84
319.50X8.40-N70	P320	35.56
334.50X8.40-N70	P335	36.07
339.50X8.40-N70	P340	47.88
354.50X8.40-N70	P355	42.36
359.50X8.40-N70	P360	49.80
374.50X8.40-N70	P375	51.16
384.50X8.40-N70	P385	54.30
399.50X8.40-N70	P400	58.47

90 DURO NITRILE O-RINGS

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[SEAL INFORMATION]

N90



MATERIAL	90 DURO NITRILE
TEMPERATURE RANGE	-40° TO +220° F
PART NUMBER	(ID) X (CS)

Please specify 70 or 90 Durometer when ordering.
O-Ring stock orders require \$2 line minimum (5 or more lines).

PART NUMBER	JIS #	LIST PRICE
005.00X1.50-N90	—	\$ 0.19
013.00X1.50-N90	—	0.20
016.00X1.50-N90	—	0.23
002.20X1.60-N90	—	0.34
003.10X1.60-N90	—	0.34
004.10X1.60-N90	—	0.37
007.10X1.60-N90	—	0.39
009.10X1.60-N90	—	0.41
010.10X1.60-N90	—	0.41
012.10X1.60-N90	—	0.44
013.10X1.60-N90	—	0.47
022.10X1.60-N90	—	0.65
013.30X1.80-N90	—	3.02
002.80X1.90-N90	P3	0.07
003.80X1.90-N90	P4	0.07
004.80X1.90-N90	P5	0.10
005.80X1.90-N90	P6	0.10
006.80X1.90-N90	P7	0.20
007.80X1.90-N90	P8	0.22
008.80X1.90-N90	P9	0.22
009.80X1.90-N90	P10	0.23
004.00X2.00-N90	—	0.13
006.00X2.00-N90	—	0.16
008.00X2.00-N90	—	0.16
009.00X2.00-N90	—	0.16
010.00X2.00-N90	—	0.19
011.00X2.00-N90	—	0.44
012.00X2.00-N90	—	0.19
014.00X2.00-N90	—	0.19
016.00X2.00-N90	—	0.20
017.50X2.00-N90	—	2.45
018.00X2.00-N90	—	0.22
019.00X2.00-N90	—	0.24
020.00X2.00-N90	—	0.29
114.50X2.00-N90	—	2.56
004.30X2.40-N90	—	0.26
005.30X2.40-N90	—	0.26
005.60X2.40-N90	—	0.26
007.30X2.40-N90	—	0.29
007.60X2.40-N90	—	0.30

PART NUMBER	JIS #	LIST PRICE
008.00X2.40-N90	—	\$ 0.30
008.30X2.40-N90	—	0.37
008.60X2.40-N90	—	0.39
009.80X2.40-N90	P10A	0.34
010.80X2.40-N90	P11	0.35
011.00X2.40-N90	P11.2	0.35
011.80X2.40-N90	P12	0.35
012.30X2.40-N90	P12.5	0.47
012.80X2.40-N90	—	0.35
013.30X2.40-N90	—	0.46
013.80X2.40-N90	P14	0.49
014.80X2.40-N90	P15	0.48
015.80X2.40-N90	P16	0.48
016.30X2.40-N90	—	0.54
016.80X2.40-N90	—	0.49
017.80X2.40-N90	P18	0.49
018.80X2.40-N90	—	0.49
019.80X2.40-N90	P20	0.64
020.80X2.40-N90	P21	0.64
021.80X2.40-N90	P22	0.66
010.00X2.50-N90	—	0.19
012.00X2.50-N90	—	0.31
013.00X2.50-N90	—	0.22
014.00X2.50-N90	—	0.22
015.00X2.50-N90	—	0.30
016.00X2.50-N90	—	0.44
017.00X2.50-N90	—	0.34
018.00X2.50-N90	—	0.35
019.00X2.50-N90	—	0.37
025.00X2.50-N90	—	0.46
014.10X2.60X-N90	—	3.53
014.8X2.65X-N90	—	3.53
009.00X3.00-N90	—	0.20
010.00X3.00-N90	—	0.20
011.00X3.00-N90	—	0.20
017.00X3.00-N90	—	0.68
018.00X3.00-N90	—	0.73
019.00X3.00-N90	—	0.89
019.20X3.00-N90	—	0.95
020.00X3.00-N90	—	5.56

PART NUMBER	JIS #	LIST PRICE
022.20X3.00-N90	—	\$ 1.03
023.00X3.00-N90	—	1.03
026.20X3.00-N90	—	1.22
027.00X3.00-N90	—	1.29
028.00X3.00-N90	—	1.24
034.00X3.00-N90	—	1.91
042.20X3.00-N90	—	1.71
045.00X3.00-N90	—	1.75
050.00X3.00-N90	—	2.03
056.00X3.00-N90	—	2.07
057.00X3.00-N90	—	2.14
060.00X3.00-N90	—	2.17
064.5X3.00-N90	—	1.46
084.00X3.00-N90	—	7.24
094.00X3.00-N90	—	4.68
094.30X3.00-N90	—	2.29
105.00X3.00-N90	—	2.23
135.00X3.00-N90	—	2.62
024.40X3.10-N90	G25	0.34
029.40X3.10-N90	G30	0.46
034.40X3.10-N90	G35	0.57
039.40X3.10-N90	G40	0.62
044.40X3.10-N90	G45	1.25
049.40X3.10-N90	G50	1.32
054.40X3.10-N90	G55	1.38
059.40X3.10-N90	G60	1.58
062.40X3.10-N90	—	4.74
064.40X3.10-N90	G65	1.57
069.40X3.10-N90	G70	1.58
074.40X3.10-N90	G75	6.11
079.40X3.10-N90	G80	1.92
084.40X3.10-N90	G85	1.92
089.40X3.10-N90	G90	2.00
094.40X3.10-N90	G95	2.06
099.40X3.10-N90	G100	2.23
104.40X3.10-N90	G105	2.28
109.40X3.10-N90	G110	2.32
114.40X3.10-N90	G115	2.35
119.40X3.10-N90	G120	2.55
124.40X3.10-N90	G125	2.60

O-RINGS



METRIC

PART NUMBER	JIS #	LIST PRICE
129.40X3.10-N90	G130	\$ 3.79
134.40X3.10-N90	G135	3.06
139.40X3.10-N90	G140	5.47
144.40X3.10-N90	G145	3.14
021.70X3.50-N90	P22A	0.39
022.10X3.50-N90	P22.4	0.48
023.70X3.50-N90	P24	0.62
024.70X3.50-N90	P25	0.62
025.20X3.50-N90	P25.5	0.48
025.70X3.50-N90	P26	0.81
027.70X3.50-N90	P28	0.87
028.70X3.50-N90	P29	1.02
029.20X3.50-N90	P29.5	2.46
029.70X3.50-N90	P30	1.03
030.70X3.50-N90	P31	1.07
031.20X3.50-N90	P31.5	0.54
031.70X3.50-N90	P32	1.09
033.70X3.50-N90	P34	1.14
034.70X3.50-N90	P35	1.14
035.20X3.50-N90	P35.5	0.68
035.70X3.50-N90	P36	1.15
037.70X3.50-N90	P38	1.21
038.70X3.50-N90	P39	1.22
039.70X3.50-N90	P40	1.23
040.70X3.50-N90	P41	1.25
041.70X3.50-N90	P42	1.29
043.00X3.50-N90	—	2.20
043.70X3.50-N90	P44	1.40
044.70X3.50-N90	P45	1.40
045.70X3.50-N90	P46	1.42
047.70X3.50-N90	P48	1.81
048.70X3.50-N90	P49	1.87
049.00X3.50-N90	—	2.73
049.70X3.50-N90	P50	1.87
059.00X3.50-N90	—	1.88
073.00X3.50-N90	—	4.71
014.50X4.00-N90	V15	4.23
023.50X4.00-N90	V24	5.38
075.00X5.00-N90	—	4.27
110.00X5.00-N90	—	4.09
128.30X5.00-N90	—	8.18
130.00X5.00-N90	—	6.99
138.70X5.00-N90	—	8.62
149.50X5.00-N90	—	9.98
150.00X5.00-N90	—	9.31
168.90X5.00-N90	—	10.42
170.00X5.00-N90	—	9.09
190.00X5.00-N90	—	8.76
047.60X5.70-N90	P48A	1.99
049.60X5.70-N90	P50A	2.06
051.60X5.70-N90	P52	3.88

PART NUMBER	JIS #	LIST PRICE
052.60X5.70-N90	P53	\$ 2.14
054.60X5.70-N90	P55	2.18
055.60X5.70-N90	P56	2.19
057.60X5.70-N90	P58	2.91
059.60X5.70-N90	P60	2.92
061.60X5.70-N90	P62	3.44
062.60X5.70-N90	P63	3.69
064.60X5.70-N90	P65	3.50
066.60X5.70-N90	P67	3.74
069.60X5.70-N90	P70	3.85
070.60X5.70-N90	P71	3.88
074.60X5.70-N90	P75	3.97
079.60X5.70-N90	P80	4.12
084.60X5.70-N90	P85	4.21
089.60X5.70-N90	P90	4.78
092.20X5.70-N90	—	7.78
094.60X5.70-N90	P95	5.59
099.60X5.70-N90	P100	5.71
101.60X5.70-N90	P102	5.76
104.60X5.70-N90	P105	5.81
109.60X5.70-N90	P110	5.93
111.60X5.70-N90	P112	5.99
114.60X5.70-N90	P115	6.06
119.60X5.70-N90	P120	6.18
124.60X5.70-N90	P125	6.18
129.60X5.70-N90	P130	6.18
131.60X5.70-N90	P132	6.20
134.60X5.70-N90	P135	6.26
139.60X5.70-N90	P140	6.31
144.60X5.70-N90	P145	6.43
149.30X5.70-N90	G150	6.70
149.60X5.70-N90	P150	7.87
154.30X5.70-N90	G155	7.98
159.30X5.70-N90	G160	8.31
164.30X5.70-N90	G165	10.07
169.30X5.70-N90	G170	10.16
174.30X5.70-N90	G175	10.34
179.30X5.70-N90	G180	11.55
184.30X5.70-N90	G185	11.68
189.30X5.70-N90	G190	11.80
194.30X5.70-N90	G195	11.94
199.30X5.70-N90	G200	15.38
204.30X5.70-N90	G205	16.23
209.30X5.70-N90	G210	18.23
214.30X5.70-N90	G215	19.02
219.30X5.70-N90	G220	21.66
224.30X5.70-N90	G225	8.39
229.30X5.70-N90	G230	22.45
234.30X5.70-N90	G235	21.42
239.30X5.70-N90	G240	23.84
249.30X5.70-N90	G250	24.86

PART NUMBER	JIS #	LIST PRICE
259.30X5.70-N90	G260	\$ 27.82
269.30X5.70-N90	G270	28.03
274.30X5.70-N90	G275	28.05
279.30X5.70-N90	G280	29.46
289.30X5.70-N90	G290	21.42
299.30X5.70-N90	G300	34.91
155.00X6.00-N90	—	10.33
175.00X6.00-N90	—	12.04
257.50X6.50-N90	—	65.87
149.50X8.40-N90	P150A	22.08
154.50X8.40-N90	P155	14.19
159.50X8.40-N90	P160	15.68
164.50X8.40-N90	P165	15.91
169.50X8.40-N90	P170	16.11
174.50X8.40-N90	P175	16.34
179.50X8.40-N90	P180	17.71
184.50X8.40-N90	P185	18.45
189.50X8.40-N90	P190	18.70
194.50X8.40-N90	P195	18.92
199.50X8.40-N90	P200	19.18
204.50X8.40-N90	P205	22.43
208.50X8.40-N90	P209	23.33
209.50X8.40-N90	P210	23.42
214.50X8.40-N90	P215	24.29
219.50X8.40-N90	P220	27.73
224.50X8.40-N90	P225	26.41
229.50X8.40-N90	P230	33.46
234.50X8.40-N90	P235	34.53
239.50X8.40-N90	P240	40.21
244.50X8.40-N90	P245	29.84
249.50X8.40-N90	P250	32.88
254.30X8.40-N90	G255	20.21
254.50X8.40-N90	P255	34.22
259.50X8.40-N90	P260	36.43
264.50X8.40-N90	P265	37.81
269.50X8.40-N90	P270	46.24
274.50X8.40-N90	P275	49.46
279.50X8.40-N90	P280	51.61
289.50X8.40-N90	P290	54.02
294.50X8.40-N90	P295	56.37
299.50X8.40-N90	P300	57.62
314.50X8.40X-N90	P315	69.12
319.50X8.40-N90	P320	71.14
334.50X8.40-N90	P335	74.43
339.50X8.40-N90	P340	75.08
354.40X8.40-N90	P355	79.19
359.50X8.40-N90	P360	81.23
374.50X8.40-N90	P375	85.50
399.50X8.40-N90	P400	87.72

O-RING KITS

371



O-RING SPLICE KIT INCH & METRIC SIZES

Part Number: Met/Inch Splice Kit
List Price: \$ 78.37

This kit can produce O-rings of any standard inch size cross-section plus a wide variety of metric sizes. Each kit contains quick drying adhesive, cutting and splicing jig, razor blade and 14 lengths of 70 Durometer Buna-N cord stock as follows:

INCH CROSS-SECTIONS: (INCH)

1/16" (.070), 3/32" (.103), 1/8" (.139),
3/16" (.210), 1/4" (.275)

METRIC CROSS-SECTIONS: (MM)

1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 5.7, 8.4

O-RING CORD STOCK

PART NUMBER	C.S.	LIST PRICE PER FOOT
MORC-1.5	1.5	\$ 0.55
MORC-2.0	2	0.61
MORC-2.5	2.5	0.73
MORC-3.0	3	0.97
MORC-3.5	3.5	0.99
MORC-4.0	4	1.03
MORC-5.0	5	1.57
MORC-5.7	5.7	1.82
MORC-8.4	8.4	2.37

O-RINGS

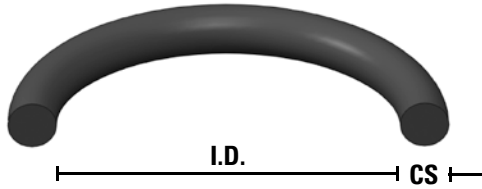


METRIC



[SEAL INFORMATION]

V75



MATERIAL

70 DURO FLUOROCARBON

TEMPERATURE RANGE

-20° TO +400° F

PART NUMBER

(ID) X (CS)

Fluorocarbon O-Rings can withstand higher temperatures and more caustic mediums.

O-Ring stock orders require \$2 line minimum (5 or more lines).

PART NUMBER	JIS#	LIST PRICE
003.00X1.00-V75	—	\$ 0.34
004.00X1.00-V75	—	1.11
006.00X1.00-V75	—	0.46
002.00X1.50-V75	—	0.53
003.50X1.50-V75	—	0.52
005.00X1.50-V75	—	0.46
007.00X1.50-V75	—	0.61
009.00X1.50-V75	—	0.57
011.00X1.50-V75	—	0.78
012.00X1.50-V75	—	0.82
013.00X1.50-V75	—	0.91
015.00X1.50-V75	—	1.21
016.00X1.50-V75	—	1.12
017.00X1.50-V75	—	1.68
020.00X1.50-V75	—	1.48
003.10X1.60-V75	—	0.43
004.10X1.60-V75	—	0.44
007.10X1.60-V75	—	0.62
009.10X1.60-V75	—	0.66
013.10X1.60-V75	—	0.92
004.80X1.90-V75	P5	0.51
005.80X1.90-V75	P6	0.59
006.80X1.90-V75	P7	0.71
007.80X1.90-V75	P8	0.75
008.80X1.90-V75	P9	0.76
009.80X1.90-V75	P10	1.02
003.00X2.00-V75	—	0.84
004.00X2.00-V75	—	0.67
005.00X2.00-V75	—	0.71
006.00X2.00-V75	—	0.75
006.50X2.00-V75	—	0.93
007.00X2.00-V75	—	0.82
008.00X2.00-V75	—	0.86
009.00X2.00-V75	—	0.91
010.00X2.00-V75	—	0.96
011.00X2.00-V75	—	0.99

PART NUMBER	JIS#	LIST PRICE
012.00X2.00-V75	—	\$ 1.08
013.00X2.00-V75	—	1.16
014.00X2.00-V75	—	1.20
015.00X2.00-V75	—	1.27
016.00X2.00-V75	—	1.29
017.00X2.00-V75	—	1.35
018.00X2.00-V75	—	1.42
019.00X2.00-V75	—	1.45
020.00X2.00-V75	—	1.50
022.00X2.00-V75	—	1.61
023.50X2.00-V75	—	1.66
024.00X2.00-V75	—	1.61
025.00X2.00-V75	—	1.69
026.00X2.00-V75	—	1.78
027.00X2.00-V75	—	1.86
030.00X2.00-V75	—	2.46
032.00X2.00-V75	—	2.20
035.00X2.00-V75	—	2.51
037.50X2.00-V75	—	2.59
039.00X2.00-V75	—	2.28
039.50X2.00-V75	—	2.80
040.00X2.00-V75	—	2.83
044.00X2.00-V75	—	2.96
050.00X2.00-V75	—	3.46
055.00X2.00-V75	—	3.68
073.00X2.00-V75	—	7.13
100.00X2.00-V75	—	11.06
007.60X2.40-V75	—	0.99
008.30X2.40-V75	—	1.01
008.60X2.40-V75	—	1.05
009.80X2.40-V75	P10A	1.22
010.80X2.40-V75	P11	1.29
011.30X2.40-V75	—	1.22
011.80X2.40-V75	P12	1.40
012.30X2.40-V75	P12.5	1.31
013.30X2.40-V75	P14	1.36

PART NUMBER	JIS#	LIST PRICE
013.80X2.40-V75	—	\$ 1.50
014.80X2.40-V75	P15	1.58
015.80X2.40-V75	P16	1.63
017.30X2.40-V75	—	1.59
017.80X2.40-V75	P18	1.77
019.80X2.40-V75	P20	1.90
020.80X2.40-V75	P21	1.96
021.80X2.40-V75	P22	2.08
039.60X2.40-V75	—	3.31
007.00X2.50-V75	—	0.99
010.00X2.50-V75	—	1.20
011.00X2.50-V75	—	1.28
012.00X2.50-V75	—	1.36
013.00X2.50-V75	—	1.38
014.00X2.50-V75	—	1.45
015.00X2.50-V75	—	1.50
016.00X2.50-V75	—	1.58
017.00X2.50-V75	—	1.61
018.00X2.50-V75	—	1.68
019.00X2.50-V75	—	1.70
020.00X2.50-V75	—	1.75
022.00X2.50-V75	—	1.98
023.00X2.50-V75	—	2.00
028.00X2.50-V75	—	2.30
035.00X2.50-V75	—	3.07
059.00X2.50-V75	—	4.55
003.00X3.00-V75	—	0.76
009.00X3.00-V75	—	1.45
010.00X3.00-V75	—	1.52
011.00X3.00-V75	—	1.62
013.00X3.00-V75	—	1.70
015.00X3.00-V75	—	1.77
016.00X3.00-V75	—	1.77
017.00X3.00-V75	—	1.83
019.00X3.00-V75	—	1.98
020.00X3.00-V75	—	2.04



75 DURO FLUOROCARBON O-RINGS

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O-RINGS

PART NUMBER	JIS#	LIST PRICE
022.00X3.00-V75	—	\$ 2.21
022.20X3.00-V75	—	2.21
025.00X3.00-V75	—	5.60
026.00X3.00-V75	—	2.51
027.00X3.00-V75	—	2.62
028.00X3.00-V75	—	2.74
029.00X3.00-V75	—	2.81
030.00X3.00-V75	—	2.82
031.00X3.00-V75	—	2.51
032.00X3.00-V75	—	3.07
033.00X3.00-V75	—	3.16
034.00X3.00-V75	—	3.30
035.00X3.00-V75	—	3.47
036.00X3.00-V75	—	3.54
038.00X3.00-V75	—	3.74
039.00X3.00-V75	—	3.79
042.20X3.00-V75	—	4.11
044.00X3.00-V75	—	3.93
046.00X3.00-V75	—	4.43
048.00X3.00-V75	—	4.43
049.50X3.00-V75	—	4.55
052.00X3.00-V75	—	4.74
057.00X3.00-V75	—	4.96
060.00X3.00-V75	—	5.24
062.00X3.00-V75	—	5.41
064.00X3.00-V75	—	5.52
065.00X3.00-V75	—	5.61
068.00X3.00-V75	—	5.86
072.00X3.00-V75	—	6.47

PART NUMBER	JIS#	LIST PRICE
074.00X3.00-V75	—	\$ 6.60
075.00X3.00-V75	—	5.60
078.00X3.00-V75	—	7.09
095.00X3.00-V75	—	9.34
123.00X3.00-V75	—	14.86
138.00X3.00-V75	—	19.25
024.40X3.10-V75	G25	3.22
029.40X3.10-V75	G30	3.80
039.40X3.10-V75	G40	4.89
044.40X3.10-V75	G45	5.73
049.40X3.10-V75	G50	6.02
054.40X3.10-V75	G55	6.91
059.40X3.10-V75	G60	7.06
064.40X3.10-V75	G65	8.22
069.40X3.10-V75	G70	8.22
074.40X3.10-V75	G75	8.77
079.40X3.10-V75	G80	9.34
084.40X3.10-V75	G85	9.95
089.40X3.10-V75	G90	10.45
094.40X3.10-V75	G95	11.01
099.40X3.10-V75	G100	11.57
104.40X3.10-V75	G105	12.14
109.40X3.10-V75	G110	28.20
114.40X3.10-V75	G115	13.27
119.40X3.10-V75	G120	13.82
124.40X3.10-V75	G125	14.35
144.40X3.10-V75	G145	15.56
028.70X3.50-V75	P29	6.14
038.00X4.00-V75	—	5.31

PART NUMBER	JIS#	LIST PRICE
041.00X4.00-V75	—	\$ 5.69
044.00X4.00-V75	—	6.06
048.00X4.00-V75	—	6.58
060.00X4.00-V75	—	6.61
072.00X4.00-V75	—	9.95
120.00X4.00-V75	—	14.14
124.00X4.00-V75	—	20.22
049.60X5.70-V75	P50A	9.65
052.60X5.70-V75	P53	12.18
054.60X5.70-V75	P55	10.13
059.60X5.70-V75	P60	15.67
064.60X5.70-V75	P65	13.12
069.60X5.70-V75	P70	16.10
079.60X5.70-V75	P80	18.02
084.60X5.70-V75	P85	19.02
089.60X5.70-V75	P90	16.36
094.60X5.70-V75	P95	16.97
099.60X5.70-V75	P100	21.48
109.60X5.70-V75	P110	19.17
114.60X5.70-V75	P115	25.89
119.60X5.70-V75	P120	25.43
129.60X5.70-V75	P130	28.81
134.60X5.70-V75	P135	24.40
139.60X5.70-V75	P140	30.90
154.30X5.70-V75	G155	32.00
189.30X5.70-V75	G190	47.76
194.30X5.70-V75	G195	41.66

CUSTOM METRIC O-RING KITS

Do you have an assortment of *Metric O-Rings* you continually buy? Call us with your kit number and sizes and we will set it up in our system.



METRIC

COMMON JAPANESE SIZE O-RINGS IN 70 DUROMETER

Part Number: Metric O Kit-J
List Price: \$ 59.41

This 380 piece kit contains the most popular Japanese Industrial Metric O-Ring sizes in 70 durometer.



I.D.	C.S.	QTY
2.8	1.9	25
3.8	1.9	20
4.8	1.9	20
5.8	1.9	20
6.8	1.9	15
7.8	1.9	15
8.8	1.9	15
9.8	1.9	15
9.8	2.4	15
10.8	2.4	15
11.0	2.4	15
11.8	2.4	12
12.8	2.4	12
13.8	2.4	12
14.8	2.4	12
15.8	2.4	12
17.8	2.4	8
19.8	2.4	8

I.D.	C.S.	QTY
20.8	2.4	8
21.8	2.4	8
24.4	3.1	6
29.4	3.1	7
21.7	3.5	5
22.1	3.5	5
23.7	3.5	7
24.7	3.5	7
25.2	3.5	7
25.7	3.5	7
27.7	3.5	7
28.7	3.5	6
29.2	3.5	6
29.7	3.5	6
30.7	3.5	6
31.2	3.5	6
14.5	4.0	4
23.5	4.0	6

COMMON JAPANESE SIZE O-RINGS IN 90 DUROMETER

Part Number: Metric O Kit-J-90D
List Price: \$ 132.97

This 380 piece kit contains the most popular Japanese Industrial Metric O-Ring sizes in 90 durometer NBR.

I.D.	C.S.	QTY
2.8	1.9	25
3.8	1.9	20
4.8	1.9	20
5.8	1.9	20
6.8	1.9	15
7.8	1.9	15
8.8	1.9	15
9.8	1.9	15
9.8	2.4	15
10.8	2.4	15
11.0	2.4	15
11.8	2.4	12
12.8	2.4	12
13.8	2.4	12
14.8	2.4	12
15.8	2.4	12
17.8	2.4	8
19.8	2.4	8

I.D.	C.S.	QTY
20.8	2.4	8
21.8	2.4	8
24.4	3.1	6
29.4	3.1	7
21.7	3.5	5
22.1	3.5	5
23.7	3.5	7
24.7	3.5	7
25.2	3.5	7
25.7	3.5	7
27.7	3.5	7
28.7	3.5	6
29.2	3.5	6
29.7	3.5	6
30.7	3.5	6
31.2	3.5	6
14.5	4.0	4
23.5	4.0	6



O-RING KITS

375

O-RINGS

COMMON EUROPEAN SIZE O-RINGS IN 70 DUROMETER

Part Number: Metric O Kit-E
List Price: \$ 45.37

This 500 piece kit contains the most popular European Metric O-Ring sizes.



I.D.	C.S.	QTY
5.0	1.5	20
13.0	1.5	15
16.0	1.5	10
2.2	1.6	20
3.1	1.6	20
4.1	1.6	20
7.1	1.6	20
9.1	1.6	15
10.1	1.6	15
13.1	1.6	15
4.0	2.0	20
6.0	2.0	20
8.0	2.0	15
9.0	2.0	15
10.0	2.0	15
12.0	2.0	15
14.0	2.0	10
16.0	2.0	10

I.D.	C.S.	QTY
19.0	2.0	10
20.0	2.0	10
4.3	2.4	15
5.3	2.4	15
5.6	2.4	15
7.6	2.4	15
8.3	2.4	15
8.6	2.4	15
10.0	2.5	10
13.0	2.5	10
14.0	2.5	10
15.0	2.5	10
17.0	2.5	10
18.0	2.5	10
19.0	2.5	10
9.0	3.0	10
10.0	3.0	10
11.0	3.0	10

COMMON EUROPEAN SIZE O-RINGS IN 90 DUROMETER

Part Number: Metric O Kit-E-90D
List Price: \$ 152.37

This 500 piece kit contains the most popular European Metric O-Ring sizes.



I.D.	C.S.	QTY
5.0	1.5	20
13.0	1.5	15
16.0	1.5	10
2.2	1.6	20
3.1	1.6	20
4.1	1.6	20
7.1	1.6	20
9.1	1.6	15
10.1	1.6	15
13.1	1.6	15
4.0	2.0	20
6.0	2.0	20
8.0	2.0	15
9.0	2.0	15
10.0	2.0	15
12.0	2.0	15
14.0	2.0	10
16.0	2.0	10

I.D.	C.S.	QTY
19.0	2.0	10
20.0	2.0	10
4.3	2.4	15
5.3	2.4	15
5.6	2.4	15
7.6	2.4	15
8.3	2.4	15
8.6	2.4	15
10.0	2.5	10
13.0	2.5	10
14.0	2.5	10
15.0	2.5	10
17.0	2.5	10
18.0	2.5	10
19.0	2.5	10
9.0	3.0	10
10.0	3.0	10
11.0	3.0	10



METRIC



[SEAL INFORMATION]

MBT



MATERIAL

PTFE

TEMPERATURE RANGE

-40° TO +500° F

PART NUMBER

(Prefix) - (ID) X (CS) X (W)

Commonly used with metric o-rings, these back-up rings are made of virgin PTFE unless suffix specifies otherwise.

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MBT-3X1.5X1.25	\$ 1.68	MBT-22X3.5X1.5	\$ 2.26	MBT-40X5X1.5	\$ 11.30	MBT-56X5X1.5	\$ 10.43
MBT-4X1.5X1.25	1.68	MBT-22.4X3X1.25	1.68	MBT-41X3X1.25	2.13	MBT-56X5X1.9	4.25
MBT-5X1.5X1.25	1.68	MBT-24X3X1.25	1.68	MBT-42X3X1.25	2.56	MBT-57X2.5X1.5	9.51
MBT-6X1.5X1.25	1.68	MBT-25X2.5X1.25	1.12	MBT-43X2.5X0.6	14.52	MBT-58X5X1.9	5.24
MBT-7X1.5X1.25	1.68	MBT-25X3X1.25	1.68	MBT-44X3X1.25	2.42	MBT-60X2.5X1.25	8.79
MBT-8X1.5X1.25	1.68	MBT-25X3X1.5	2.34	MBT-45X2.5X1.25	1.86	MBT-60X2.5X1.5	10.91
MBT-9X1.5X1.25	1.68	MBT-25.5X3X1.25	2.61	MBT-45X3X1.25	2.42	MBT-60X5X1.5SG	7.58
MBT-10X1.5X1.25	1.68	MBT-26X3X1.25	1.68	MBT-45X4X1.5	4.25	MBT-60X5X1.9	4.25
MBT-10X2X1.25	1.68	MBT-28X2X1.5S	9.86	MBT-45X4.95X1.5	16.49	MBT-60X7.5X0.5	28.93
MBT-11X2X1.25	1.68	MBT-28X3X1.25	1.49	MBT-45X5.5X0.5	9.93	MBT-62X3.5X1.1	30.17
MBT-11.2X2X1.25	1.68	MBT-28X4X1.5	5.04	MBT-45X7.5X3	40.48	MBT-62X5X1.9	4.25
MBT-11.8X2.1X1	5.41	MBT-29X3X1.25	1.68	MBT-46X3X1.25	2.42	MBT-63X5X1.9	4.25
MBT-12X2X1.25	1.68	MBT-29.5X3X1.25	1.68	MBT-47X2X1.25	5.97	MBT-64X3X1.5	14.90
MBT-12X3.15X1.5	1.55	MBT-30X2.5X1.25	1.68	MBT-48X3X1.25	2.42	MBT-65X2.5X1.25	4.19
MBT-12.5X2X1.25	1.68	MBT-30X3X1.25	1.68	MBT-48X5X1.9	5.74	MBT-65X5X1.9	4.41
MBT-13X1.5X1	6.32	MBT-30X3X2.3	4.16	MBT-49X3X1.25	2.42	MBT-65X10X3	31.96
MBT-13X2X1.2	15.82	MBT-31X3X1.25	2.47	MBT-50X2.5X1.25	10.29	MBT-67X5X1.9	4.59
MBT-14X2X1.25	2.01	MBT-31.5X3X1.25	2.49	MBT-50X2.5X1.5	10.08	MBT-70X2.5X1.25	6.66
MBT-14X3.15X1.5	1.55	MBT-32X2.5X1.5	19.14	MBT-50X3X1.25	2.42	MBT-70X2.5X1.5	11.18
MBT-15X2X1.25	2.03	MBT-32X3X1.25	2.49	MBT-50X4X1.5	17.75	MBT-70X5X1.5	12.03
MBT-15X5X2SB	3.95	MBT-34X3X1.25	2.49	MBT-50X5X1.9	5.06	MBT-70X5X1.9	9.54
MBT-16X2X1.25	2.07	MBT-35X2.5X1.25	1.68	MBT-50X7.5X0.6	9.11	MBT-71X5X1.9	7.04
MBT-18X1.5X2.6	23.97	MBT-35X3X1.25	2.50	MBT-50X7.5X3	18.26	MBT-74.4X2.6X1.8	8.72
MBT-18X2X1.25	2.12	MBT-35.5X3X1.25	2.05	MBT-52X5X1.9	3.89	MBT-75X2.5X1.25	6.86
MBT-18X3.5X1.5	2.02	MBT-36X3X1.25	2.05	MBT-53X2X1.25	6.84	MBT-75X2.5X1.5	11.18
MBT-20X2X1.25	2.14	MBT-36X4X1.5	3.39	MBT-53X5X1.9	3.89	MBT-75X5X1.9	10.25
MBT-20X2.5X1.25	7.19	MBT-38X3X1.25	2.05	MBT-55X2.5X1.25	3.47	MBT-78X5X1.7	18.39
MBT-21X2X1.25	2.17	MBT-39X3X1.25	2.13	MBT-55X5X1.9	3.89	MBT-79X5X6	73.70
MBT-21X3X2.5	6.69	MBT-40X2.5X1.25	1.86	MBT-55X7.5X3	4.86	MBT-80X2.5X1.25	7.70
MBT-22X2X1.25	2.21	MBT-40X3X1.25	2.13	MBT-55X8X3SB	25.03	MBT-80X2.5X1.5	11.34
MBT-22X3X1.25	1.68	MBT-40X5X0.5	12.16	MBT-56X2.5X1.25	7.57	MBT-80X5X1.9	5.47



MBT BACK-UP RINGS

377

BACK-UP RINGS

PART NUMBER	LIST PRICE
MBT-82X3.5X1.5G	\$ 15.71
MBT-85X2.5X1.25	7.77
MBT-85X5X1.9	5.65
MBT-88X2.5X1.3	15.77
MBT-90X2.5X1.25	7.77
MBT-90X5X1.9	9.06
MBT-90X10X3	34.25
MBT-93X5X1.7	20.79
MBT-94.8X3.1X1.7	16.04
MBT-95X2.5X1.25	7.77
MBT-95X5X1.9	6.52
MBT-95X10X3	35.63
MBT-100X2.5X1.25	7.96
MBT-100X5X1.9	6.70
MBT-100X7.5X1.5	14.66
MBT-100X12.5X3	37.04
MBT-102X5X1.9	6.70
MBT-104.8X3.1X1.7	17.97
MBT-105X2.5X1.25	8.14
MBT-105X5X1.9	7.25
MBT-110X2.5X1.25	8.14
MBT-110X5X1.9	7.43
MBT-112X5X1.9	15.36
MBT-115X2.5X1.25	8.34
MBT-115X5X1.9	8.57
MBT-120X2.5X1.25	8.34
MBT-120X5X1.9	8.14
MBT-123X4X1.7	19.54
MBT-125X2.5X1.25	5.24
MBT-125X5X1.9	10.09
MBT-130X2.5X1.25	10.28

PART NUMBER	LIST PRICE
MBT-130X5X1.9	\$ 8.65
MBT-132X5X1.9	10.31
MBT-135X2.5X1.25	8.90
MBT-135X2.5X1.7	9.40
MBT-135X5X1.9	10.71
MBT-140X2.5X1.25	9.84
MBT-140X5X1.9	9.38
MBT-145X2.5X1.25	10.02
MBT-145X5X1.9	11.54
MBT-150X4X1.6	4.42
MBT-150X5X1.9	11.78
MBT-150X7.5X2.75	19.08
MBT-155X2.5X1.5	11.94
MBT-155X5X1.9	12.16
MBT-155X7.5X2	33.35
MBT-155X7.5X2.75	19.64
MBT-160X5X1.9	12.99
MBT-160X7.5X2.75	20.13
MBT-165X5X1.9	12.99
MBT-165X7.5X2.75	20.13
MBT-170X4.5X1.9	12.01
MBT-170X5X1.9	13.23
MBT-170X7X2.75	40.01
MBT-170X7.5X2.75	22.09
MBT-175X5X1.9	17.66
MBT-175X7.5X2	43.77
MBT-175X7.5X2.75	22.80
MBT-180X5X1.9	14.20
MBT-180X5X2.5	23.14
MBT-180X7.5X2.75	23.33
MBT-185X5X1.9	14.39

PART NUMBER	LIST PRICE
MBT-185X7.5X2.75	\$ 24.04
MBT-190X4.5X1.9	13.18
MBT-190X5X1.9	14.92
MBT-190X7.5X2	44.96
MBT-190X7.5X2.75	24.60
MBT-195X5X1.9	15.32
MBT-195X7.5X2.75	25.28
MBT-200X5X1.9	15.76
MBT-200X7.5X2	48.47
MBT-200X7.5X2.75	25.81
MBT-200X5X1.9	13.25
MBT-205X7.5X2.75	25.81
MBT-209X7.5X2.75	25.81
MBT-210X5X1.9	16.40
MBT-210X7.5X2.5	33.40
MBT-210X7.5X2.75	27.03
MBT-214X5X1.9	20.03
MBT-215X5X1.9	20.51
MBT-215X7.5X2.75	40.92
MBT-215X7.5X3	59.28
MBT-220X5X1.9	21.25
MBT-220X7.5X2.75	28.45
MBT-220X7.5X3	66.38
MBT-225X7.5X2.5	64.64
MBT-225X7.5X2.75	29.16
MBT-230X5X1.9	17.87
MBT-230X7.5X2.75	29.69
MBT-235X6.3X2.5	87.80
MBT-235X7.5X2.75	30.38
MBT-240X5X1.9	18.88
MBT-240X7.5X2.75	30.93

PART NUMBER	LIST PRICE
MBT-245X7.5X2.75	\$ 31.63
MBT-250X5X1.9	19.54
MBT-250X7.5X2.75	38.75
MBT-255X7.5X2.75	39.14
MBT-260X5X1.9	20.35
MBT-260X7.5X2.75	39.68
MBT-265X7.5X2.75	40.46
MBT-270X5X1.9	23.91
MBT-270X7.5X2.75	51.35
MBT-275X5X1.9	34.88
MBT-275X7.5X2.75	58.68
MBT-280X5X1.9	40.39
MBT-280X7.5X2.75	42.81
MBT-285X7.5X2.75	43.24
MBT-290X5X1.9	48.36
MBT-290X7.5X2.75	40.99
MBT-295X7.5X2.75	42.44
MBT-300X5X1.9	59.93
MBT-300X7.5X2.75	39.06
MBT-315X7.5X2.75	44.11
MBT-280X7.5X2.75	31.34
MBT-285X7.5X2.75	31.65
MBT-290X7.5X2.75	34.85
MBT-295X7.5X2.75	32.73
MBT-300X7.5X2.75	33.20
MBT-310X5X1.9	60.80
MBT-315X7.5X2.75	37.50
MBT-320X7.5X2.75	65.93
MBT-335X7.5X2.75	91.21

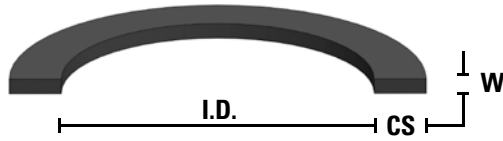


METRIC



[SEAL INFORMATION]

MBU

**MATERIAL**

URETHANE

TEMPERATURE RANGE

-40° TO +200° F

PART NUMBER

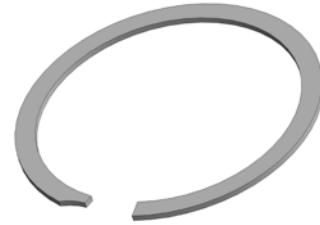
(Prefix) - (ID) X (CS) X (W)

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
MBU-6X2X1.3	\$ 1.59	MBU-60X5X1.7	\$ 0.97	MBU-98X2.5X1.3	\$ 0.98	MBU-145X7.5X2.5	\$ 3.25
MBU-14X2X1.3	0.39	MBU-62X2.5X1.3	0.91	MBU-100X2.5X1.25-70D	2.79	MBU-150X5X1.7	2.26
MBU-16X2X1.3	1.22	MBU-65X2.5X1.25-70D	3.46	MBU-100X2.5X1.3	0.99	MBU-155X5X1.7	3.59
MBU-25X2.5X1.3	0.52	MBU-65X2.5X1.3	0.77	MBU-100X5X1.7	1.47	MBU-155X7.5X1.7	13.67
MBU-27X2.5X1.3	0.51	MBU-66X3.5X1.2	16.23	MBU-105X2.5X1.3	1.21	MBU-160X5X1.7	4.13
MBU-30X2.5X1.3	0.50	MBU-70X2.5X1.3	0.89	MBU-110X2.5X1.25-70D	4.20	MBU-160X5X2.5-70D	6.48
MBU-33X2.5X1.5	0.51	MBU-72.5X2.5X1.3	3.39	MBU-110X2.5X1.3	1.42	MBU-165X7.5X2.1	4.66
MBU-35X2.5X1.25-70D	1.69	MBU-72X3.5X1.25	16.23	MBU-110X5X1.7	2.02	MBU-170X5X1.7	4.15
MBU-35X2.5X1.3	0.52	MBU-75X2.5X1.25-70D	2.13	MBU-115X2.5X1.3	1.46	MBU-175X5X1.9	4.40
MBU-37X2.5X1.3	0.53	MBU-75X2.5X1.3	0.83	MBU-115X5X1.7	2.05	MBU-175X7.5X2.1	4.02
MBU-40X2.5X1.3	0.54	MBU-75X5X1.7	2.15	MBU-120X2.5X1.25-70D	3.25	MBU-180X5X1.7	4.26
MBU-40X5X1.7	0.87	MBU-76X3.5X1.1	23.70	MBU-120X2.5X1.3	1.65	MBU-180X5X2.5-70D	7.97
MBU-43X2.5X1.3	0.56	MBU-77X5X1.7	1.91	MBU-120X5X1.7	2.31	MBU-180X7.5X2.1	3.80
MBU-45X2.5X1.3	0.57	MBU-78X5X1.7	1.27	MBU-125X2.5X1.25-70D	4.44	MBU-185X7.5X2.5	4.49
MBU-47X2.5X1.3	4.53	MBU-80X2.5X1.3	0.87	MBU-125X2.5X1.3	1.46	MBU-190X5X1.7	4.29
MBU-47X3.5X1.1	5.14	MBU-85X2.5X1.25-70D	2.23	MBU-125X2.5X1.5	1.15	MBU-200X7.5X2.1	4.15
MBU-50X2.5X1.3	0.60	MBU-85X2.5X1.3	0.93	MBU-130X2.5X1.25-70D	2.66	MBU-205X7.5X2.1	7.47
MBU-50X5X1.7	0.98	MBU-85X5X1.7	1.56	MBU-130X2.5X1.3	1.33	MBU-215X7.1X2.1	4.47
MBU-53X5X1.7	0.89	MBU-90X2.5X1.25-70D	2.41	MBU-130X5X1.7	2.14	MBU-235X7.1X2.1	5.80
MBU-53.3X3X1	0.92	MBU-90X2.5X1.3	0.94	MBU-135X2.5X1.5	1.71	MBU-245X5X2	7.74
MBU-55X2.5X1.3	0.71	MBU-90X5X1.7	1.42	MBU-140X2.5X1.3	1.58	MBU-245X7.1X2.1	6.24
MBU-55X5X1.7	1.04	MBU-95X2.5X1.25-70D	2.61	MBU-140X5X1.7	2.17		
MBU-56X3.5X1.25	16.62	MBU-95X2.5X1.3	0.41	MBU-145X5X1.7	2.50		
MBU-58X2.5X1.3	0.72	MBU-95X5X1.7	1.46	MBU-145X7.5X2.1	3.22		



SPIRAL TYPE RETAINER RINGS

PART NUMBER	BORE	RING O.D.	RADIAL WALL THICKNESS	LIST PRICE
MSL-32	32.0	34.5	3.0	\$ 9.11
MSL-34	34.0	36.3	2.7	9.55
MSL-54	52.0	54.8	3.0	18.78
MSL-74	74.0	74.0	3.5	27.55



LOCK WIRE

PART NUMBER	DESCRIPTION	LIST PRICE
MLW-2	MLW- 2 mm Round Cross Section- Sold per inch	\$ 0.30
MLW-3	MLW- 3 mm Round Cross Section- Sold per inch	0.96

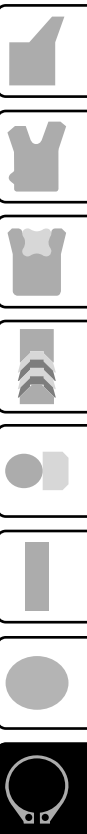
INTERNAL RETAINER RINGS

PART NUMBER	BORE	RING O.D.	THICKNESS	LIST PRICE
M300-30	30.0	32.1	1.20	\$ 1.00
M300-32	32.0	34.4	1.20	2.63
M300-42	42.0	45.5	1.30	3.66
M300-45	45.0	48.5	1.75	3.89
M300-47	47.0	50.5	1.75	3.98
M300-48	48.0	51.5	1.75	3.98
M300-50	50.0	54.2	2.00	4.05
M300-52	52.0	56.2	2.00	4.33
M300-55	55.0	59.2	2.00	4.22
M300-60	60.0	64.2	2.00	4.48
M300-62	62.0	66.2	2.00	4.59
M300-72	72.0	76.5	2.50	5.32
M300-80	80.0	84.5	2.50	7.35
M300-82	82.0	87.5	2.50	7.41
M300-130	130.0	137.0	4.00	11.81



EXTERNAL RETAINER RINGS

PART NUMBER	SHAFT DIAM	RING I.D.	THICKNESS	LIST PRICE
M310-13	13.0	11.9	1.00	\$ 1.32
M310-14	14.0	12.9	1.00	2.10
M310-25	25.0	23.0	1.20	2.28
M310-28	28.0	25.9	1.50	2.55
M310-30	30.0	27.9	1.50	2.88
M310-45	45.0	41.5	1.75	4.48
M310-50	50.0	45.8	2.00	5.68
M310-60	60.0	55.8	2.00	6.09
M310-65	65.0	60.8	2.50	3.31



"NYLON INSERT" LOCKING NUTS FOR USE ON CATERPILLAR® HYDRAULIC CYLINDERS

Note: Part numbers listed below are for reference only. We do not imply that these parts are original Caterpillar® replacement parts.

Heat Treated . . .

All lock nuts are manufactured from the finest quality steel and heat treated to offer superior strength for critical locking applications.

High Temperature Applications . . .

Each lock nut is made with a high temperature nylon locking insert designed to withstand excessive cylinder heat.

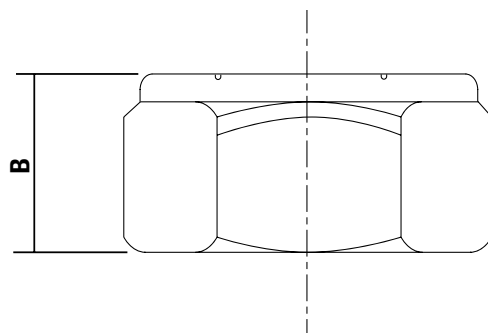
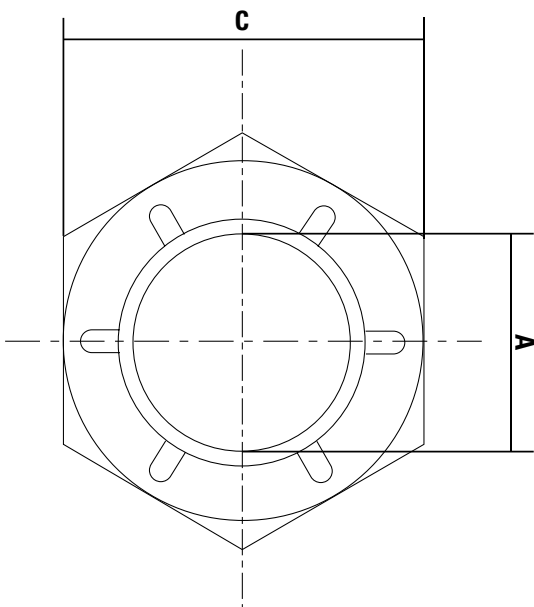
Protective Surface Finish . . .

These lock nuts have a special protective finish that will not peel or flake, thus preventing contamination during service.



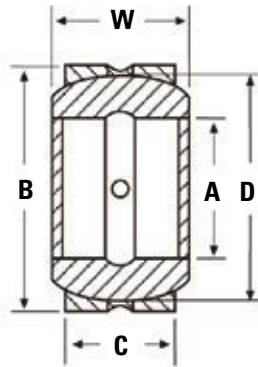
PART NUMBER	NOMINAL DIMENSIONS			LIST PRICE
	A	B	C	
1438149	M48 × 2	50 MM	75 MM	\$ 140.27
1438150	M56 × 2	56 MM	85 MM	147.40
1336686	M56 × 2	57 MM	80 MM	161.18
1475835	M64 × 2	63 MM	95 MM	198.15
7Y4622	M72 × 2	70 MM	105 MM	366.68
7Y4695	M80 × 2	76 MM	115 MM	350.73
1232060	M80 × 2	64 MM	115 MM	248.68
1232112	M90 × 2	76 MM	130 MM	454.37
7Y4956	M90 × 2	84 MM	130 MM	419.97
0875385	M95 × 2	88 MM	135 MM	523.06
1261971	M100 × 2	89 MM	146 MM	1003.59
1163513	M105 × 2	97 MM	150 MM	903.06
1163516	M120 × 2	108 MM	170 MM	1079.90

NON-STOCK — SPECIAL ORDER ONLY



[SEAL INFORMATION]

GEM



MATERIAL

CARBON
CHROMIUM STEEL

SUFFIX:

2RS = SEALED BEARINGS

PART NUMBER	A	B	W	C	D	LIST PRICE
GEM20ES	20	35	16	12	29	\$ 16.87
GEM25ES	25	42	20	16	35.5	21.00
GEM25ES2RS	25	42	20	16	35.5	19.60
GEM30ES	30	47	22	18	40.7	22.23
GEM30ES2RS	30	47	22	18	40.7	27.81
GEM35ES	35	55	25	20	47	28.80
GEM35ES2RS	35	55	25	20	47	27.81
GEM40ES	40	62	28	22	53	31.78
GEM40ES2RS	40	62	28	22	53	27.28
GEM45ES2RS	45	68	32	25	60	49.08
GEM50ES	50	75	35	28	66	46.42
GEM50ES2RS	50	75	35	28	66	90.47
GEM60ES	60	90	44	36	80	71.69
GEM70ES	70	105	49	40	92	107.48
GEM70ES2RS	70	105	49	30	92	90.47
GEM80ES	80	120	55	45	105	117.32



