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WARRANTY

Hydrapak Seals, Inc. guarantees its products to be free from defects in workmanship and raw materials. Our liability for breach of any and all warranties is limited to refunding our invoice price of the product, or at our option, replacement of the material free of charge, including shipping charges, but not the cost of removal or installation of any product. The sale of our products under any other warranty or guarantee, expressed or implied, is not authorized by the company. Any technical advice, recommendations and services are rendered by us is gratis, and may not apply to the purchaser's circumstances. Such advice is based on technical data which we believe to be reliable, but is intended for use by persons having the appropriate skill and know-how and ability to analyze the application where the product will be used and apply the information to it at their own discretion and risk. We cannot assume or accept any responsibility for results obtained or damages occurred from any installer's decisions or work, in whole or in part. THIS GUARANTEE AND WARRANTY IS IN LIEU OF ALL IMPLIED WARRANTIES.

HOW TO FIND WHAT YOU NEED

TABS

The HydraPak Seals, Inc. Seal Catalog is divided into two major categories: Inch and Metric sized seals, which are then subdivided by the seal profile illustration tabs to help you quickly locate your seals. Below is a summary of the side seal tabs for quick section reference.

ROD SEALS



U-SEALS



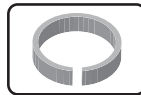
V-PACKING



PISTON SEALS



WEAR BANDS



WIPERS



O-RINGS



MISCELLANEOUS



SEAL PROFILE INDEX

To aid in seal identification, pages v - xxiv offer a complete index of seal profiles. These cross sectional drawings can help you quickly identify and locate the seal you need.

ALPHABETICAL INDEX

Find what you need in the alphabetical index in the back of the catalog. We have attempted to include all of the most commonly utilized seal reference names in this index.

SECTION INDEXES

At the beginning of each section is a specialized index containing all of the items included in that product category. These specific indexes can be found on the following pages:

Section	Page Number
Inch Seal Section6
Metric Seal Section231
Assortment Kits & Tools Section306
Appendix332

SEAL INFORMATION

Important information is displayed at the beginning of each seal product type to help you easily identify the product. A profile drawing, sample part number and material, temperature and pressure specifications are listed with each seal type to avoid any confusion. If you are not sure about the products or specifications listed, please contact one of our technical specialists.

IF ALL ELSE FAILS...

If you don't find the seal profile or size that you require in our catalog, give us a call. We are constantly adding new product types and sizes to our comprehensive inventory.

HYDRAPAK SEALS, INC. ORDERING INFORMATION

CUSTOMER SERVICE

TOTAL SERVICE

Complete customer satisfaction is our goal. Your input with any questions or problems helps us improve our service.

HOW TO OPEN AN ACCOUNT WITH US

1. Copy the following page, our Application for Credit, and fill it out.
2. Fax completed and signed Credit Application (with additional references if desired) to (800) 626-1848 or (801) 973-7440 for processing.
3. We will notify you by phone or fax of credit approval and limit.

HOW TO ORDER FROM US

HydraPak Seals now offers online ordering! Please visit our website at www.hydrapakseals.com. Additionally, we offer Toll Free phone (800) 669-9638 and fax (800) 626-1848 lines to make ordering as simple as possible. Our seal technicians can offer solutions to even the most difficult seal challenges.

SHIPMENT / DELIVERY

We ship all parts in stock the same day they are ordered. You tell us how you want it shipped. We commonly use UPS and FedEx but will use the carrier of your choice.

PRICE QUOTATIONS/NON-CATALOG ITEMS

Hydrapak Seals is constantly adding parts to inventory. If you need a part that is not listed in our catalog, provide a clear description or a sample and we would be pleased to source, quote and order it for you. We specialize in hard-to-find/non-catalog parts, which we can either source from the manufacturer or custom machine them here in our facility to your specifications. Formal quotations for product and freight are available on request.

CREDIT CARDS

HydraPak Seals accepts the following credit cards: Mastercard, Visa, American Express, & Discover Card.



COMPANY POLICY

BACKORDER POLICY

Backorders will be shipped per customer request, including freight charges when applicable.

CREDIT POLICY

Our payment terms for all open accounts are 1% 10, NET 30 days. Accounts outstanding over 30 days are reviewed daily and those that reach 30 days past due (60 days from invoice date) will be changed to COD until past due amounts have been paid. At 45 days past due (75 days from invoice date) all orders and backorders will automatically be put on credit hold until full payment is received.

RETURN POLICY

Prior to returning any part, please request a Returned Merchandise Authorization Number (RMA#) from our customer service as HydraPak Seals does not accept returns for credit without one. Returns must be requested and made within 7 days of receipt of goods and are subject to a 20% minimum restocking charge. Returned items will be inspected and, if not in resalable condition, rejected for credit. Non-stock and special order items are non-returnable.

ORDER CANCELLATION POLICY

You may cancel an order upon request and confirmation of the cancellation by our customer service.



3782 West 2340 South, Suite E. Salt Lake City, UT 84120
Phone#: 801-973-SEAL (7325) Fax#: 801-973-7440

CREDIT APPLICATION

*Company Name: _____

*Contact person: _____

*Address: _____ *City: _____ *State: _____ *Zip: _____

*Phone: _____ *Fax: _____

*Date established: _____ *Website: _____

*Type of products you will purchase: _____ *Federal Tax ID: _____

*Are you a: Corporation Partnership Sole Proprietorship Division/Subsidiary

Chief Corporate Officer:

Name: _____ Title: _____

Accounts Payable Contact:

Name: _____ Email: _____

Reference#1: Name: _____
Address: _____
Phone#: _____ Fax#: _____

Reference#2: Name: _____
Address: _____
Phone#: _____ Fax#: _____

Reference#3: Name: _____
Address: _____
Phone#: _____ Fax#: _____

Bank Reference: Account#: _____ Contact Person: _____
Name of Bank: _____ Phone#: _____
Address: _____

I hereby certify that the above information is correct and true. The information in this credit application is for use by HydraPak Seals, Inc. in determining the amount and conditions of credit to be extended. I understand that HydraPak Seals, Inc. may also utilize other sources of credit information, considered necessary in making this determination. Further, I hereby authorize the bank and trade references listed in this credit application to release the information necessary to assist HydraPak Seals, Inc. in establishing a line of credit. The purchaser and/or company applicant agrees to pay for all collection costs, including attorney's fees, if this account should be placed for collection. I have read the terms and conditions stated above and below and agree to all these terms and conditions.

*Authorized Signature: _____ *Title: _____










*Print Name: _____ *Date: ____ / ____ / ____

GENERAL TERMS AND CONDITIONS

Invoices are sent via fax the first day following shipment or pickup. You may take 1% discount, if you pay the invoice no more than 10 days after the invoice date. LATE DISCOUNTS ARE NOT AVAILABLE. All invoices become payable in full on the 11th day following the invoice date, and if not paid by 30 days are considered past due. A service charge of 2.08% per month may be added to all past due amounts.










SEAL PROFILE INDEX

INCH SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
ROD SEALS	R-HB		Style R-HB Super-Duty Rod U-Seals	Urethane Seal Rubber Energizer Polyacetal Ring	7
	R-T		Style R-T O-Ring Loaded Rod U-Seals	Urethane Seal Rubber Energizer	8
	R		Style R Asymmetric Twin Lip Rod U-Seals	Urethane	9
	R-H		Style R-H Heavy Duty Rod U-Seals	Urethane	11
	UFN-EI		Style UFN-EI Rod U-Seals w/Back-Up Rings	Nitrile Seal, Fabric Reinforced Base, Acetal Back-Up	12
	RMU-U		Style RMU Polyurethane U-Seals	Urethane	13
	RMU-N/V		Style RMU Homogeneous U-Seals	Buna-N Rubber Fluorocarbon	13
	KR		KR Style Rod U-Seals	Urethane	14
	TR		Rod T-Seals	Hard Plastic Back-Up Buna-N Rubber Seal	15







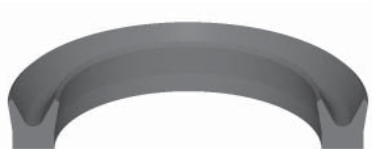


SEAL PROFILE INDEX

INCH SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
BUFFER SEALS	RB		Style RB Rod Buffer Seals	Urethane U-Seal Buffer Polyacetal Back-Up	16
	RM		Style RM Rod Buffer Seals	Urethane U-Seal Nylon Back-up	17
	R		R Style Rod Buffer Seals	PTFE Buffer Rubber Expander	18-20
	RBS		Style RBS Rod Buffer Seals	Urethane	20
	CTC		Caterpillar® Specific Buffers	Urethane or Bronze Filled PTFE Buffer Rubber Expander	21-23
U-SEALS	U		Polyseal Premium U-Seals	Urethane Rubber Expander	24-25
	P		Polyseal U-Seals	Urethane Seal Rubber Expander	26-42
	P-HT		Polyseal High-Temperature Polyurethane U-Seals	Urethane Seal Rubber Expander	43-44
	F		Polyseal Fluorotrel U-Seals	Fluorotrel Rubber Expander	45-48










SEAL PROFILE INDEX

INCH SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
U-SEALS	P-V		Polyseal Fluorocarbon U-Seals	Fluorocarbon Rubber Expander	49-53
	P-Z		Polyseal Z-Seals	Urethane Base Rubber Lip	54-55
	PO		Poly-O Polyurethane U-Seals	Urethane Seal Rubber Expander	56-57
	PIP		PIP Rings	Urethane	58
	MB		Modular Back-Up Bearings	Urethane	59-60
	6226		AN Style Rubber U-Seals	Buna-N Rubber	61
	NU		Style NU Homogeneous U-Seals	Buna-N Rubber Fluorocarbon	62-63
	HU		Style HU Homogeneous U-Seals	Buna-N Rubber Fluorocarbon	64
V-PACKING	HDLV		Hydrolock V-Packing Sets	Hytrel & Nylon	65










SEAL PROFILE INDEX

INCH SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
V-PACKING	HDLG		Guide Lock Piston Bearings	Glass Filled Nylon	66
	V		Individual V-Rings & Adaptors	Fabric Reinforced Rubber, Urethane & Nylon Ring	67-73
	6225-T		AN Style PTFE V-Rings	PTFE	74
	6225-N		AN Style Homogeneous Rubber V-Rings	70 Durometer Buna-N Rubber	74
PISTON CUPS	KP		KP Style Piston U-Seals	Urethane	75
	PCF		Fabric/Rubber Piston Cups	Fabric/Rubber Composite	77
	PCH		PCH Homogenous Rubber Piston Cups	Buna-N Rubber	78
	CS		CS Standard Wall Urethane Piston Cups	Urethane	79
	CT		CT Thin Wall Urethane Piston Cups	Urethane	80










SEAL PROFILE INDEX

INCH SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
PISTON CUPS	DAPC		One Piece Double Acting Piston Cups	Rubber Lip Zinc Coated Steel Plate	81
T-SEALS	TP		Piston T-Seals	Hard Plastic Back-Up Buna-N Rubber Seal	82
	TP-1 TP-2		Intermediate and Wide Based Piston T-Seals	Hard Plastic Back-Up Buna-N Rubber Seal	83
	CTS		Capped Piston T-Seals	PTFE Cap Nylon Back-Up Rubber Expander	84-85
	LTP		Locking Piston T-Seals	Hard Plastic Back-Up Buna-N Rubber Seal	86
	PISTON SEAL ASSEMBLIES	PS1400		Style PS1400 Glass Filled PTFE Piston Seals	Glass Filled PTFE Piston Seal Rubber Expander
PS1500			Style PS1500 Polyurethane Piston Seals	Urethane Seal Rubber Expander	90
PS1600			Style PS1600 Glass Filled PTFE Piston Seals	Glass Filled PTFE Piston Seal Rubber Expander	91
PS1800			Style PS1800 Glass Filled PTFE Piston Seals	Glass Filled PTFE Piston Seal Rubber Expander	92-93










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INCH SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
PISTON SEAL ASSEMBLIES	PS1850		Style PS1850 Bronze Filled PTFE Piston Seals	Bronze Filled PTFE Piston Seal Rubber Expander	94
	PS2700		Style PS2700 Piston Seals	Glass / PTFE Filled Polyester Piston Seal Rubber Expander	95
	GP		Style GP Bronze Filled PTFE Piston Seals	Bronze Filled PTFE Piston Seal Rubber Expander	96
	PS2470		Style PS2470 Bronze Filled PTFE Piston Seals	Bronze Filled PTFE Piston Seal Rubber Expander	97
	PS914		Style PS914 Nylon Step Cut Piston Seals	Glass Filled Nylon Piston Seal Rubber Expander	98
	PS2000		Style PS2000 Nylon Step Cut Piston Seals	Glass Filled Nylon Piston Seal Rubber Expander	99
	CTC		Caterpillar® Two Piece Piston Seals	Glass Filled Nylon or Glass Filled PTFE Piston Seal Rubber Expander	100-101
	PSA		Style PS Five Piece Piston Seals	Fabric Reinforced Piston Seal Polyacetal Anti-Extrusion Ring	102
	PSA-58		Style PS-58 Three Piece Piston Seals	Fabric Reinforced Piston Seal Polyacetal Anti-Extrusion Ring	103-104










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INCH SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
PISTON SEAL ASSEMBLIES	PSA-59		Style PS-59 Three Piece Piston Seals	Fabric Reinforced Piston Seal Polyacetal Anti-Extrusion Ring	105
	PSA-65		Style PS-65 Three Piece Piston Seals	Fabric Reinforced Piston Seal Polyacetal Anti-Extrusion Ring	106
	PSF		Style PSF Piston Seals	Rubber Seal PTFE Back-Up Polyacetal Anti-Extrusion Ring	107
	CPS		Crown Piston Seals	Urethane Seal Rubber Energizer	108-110
	CSM		Style CSM Two Piece Piston Seals	Urethane Seal Rubber Energizer	111
	PSU		Style PSU Piston Seals	Urethane	112-113
PISTON RINGS	MPR		Cast Iron Piston Rings	Cast Iron	114-116
WEAR RINGS	606-625		Style 606 - 625 Nylon Wear Rings	Nylon	118-127
	614		Style 614 Nylon Rod Bearings	Nylon	126-127










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INCH SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
WEAR RINGS	615		Style 615 Phenolic Rod Bearings	Phenolic	127
	606T 612T		Flexible Guide Bearings	Bronze/PTFE	128
	612F		Flexible Guide Bearings	Fabric Reinforced Polyester	128
	FB		Follower Bearings	60 D Polyester	129
WIPER RINGS	D		D Style Urethane Wiper Rings	Urethane & Fluorocarbon	130-131
	DX		DX Style Energized Urethane Wiper Rings	Urethane Rubber Expander	132
	DT		Style DT Urethane Wiper Rings	Urethane	133-134
	SG		Seal Guard Metallic Rod Wipers	Bronze Rubber Expander	134
	959 (AN)		Style 959(AN) Urethane Wiper Rings	Urethane	135-136










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INCH SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
WIPER RINGS	959 BRASS		959 Spring Tensioned Brass Wipers	Brass	137
	H		H Style Wiper Rings	Urethane, Buna-N & Fluorocarbon	138-139
	BT		Style BT Urethane Wiper Rings	Urethane	139
	K		K Style Urethane Wiper Rings	Urethane	140
	WC		Style WC Wiper Rings	Buna-N	141
	WN		Style WN Wipers	Buna-N	141
	WB		Style WB Wiper Rings	Buna-N	142
	CAS		Cascade® Specific Wiper Rings	Urethane	142
	WS		Style WS Snap-In Wipers	Nylon	143










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INCH SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
WIPER RINGS	MCW-HD		Style MC-HD Metal Clad Wiper Rings	Urethane Lip Steel Case	144
	MCW		Style MCW Heavy Duty Metal Clad Wiper Rings	Urethane Lip Steel Case	145-146
	MCRW		Style MCRW Metal Clad Wiper Rings	Nitrile Lip Steel Case	147-148
	CWN		Style CWN Metal Clad Wiper Rings	Nitrile Lip Steel Case	148
O-RINGS	2-		O-Rings	Buna-N Rubber, Fluorocarbon, Silicone, Ethylene Propylene, PTFE, Urethane	154-173
	SR		Square Rings O-rings	Buna-N Rubber	174-175
	SFS		Split Flange Seals	Urethane	176
	Q		Quad Rings	Buna-N Rubber	177-178
BACK-UP RINGS	8-N90		"Parback®" Back-Up Rings	90A Buna-N Rubber	187-188










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INCH SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
BACK-UP RINGS	8-H55		Style 8-H55 Hytrel Back-Up Rings	Hytrel	189-190
	8-T		Solid, Split, & Spiral Turn Back-Up Rings	PTFE	191-193
	8-U95		Solid Back-Up Rings	Urethane	194-195
	8-NY		Style 8-NY Split Nylon Back-Up Rings	Nylon	196
	UB		Style UB PTFE U-Seal Back-Up Rings	PTFE	197
OIL SEALS	OS		Oil Seals	Rubber Lip Steel Case	200-204
RETAINER RINGS	VH, WH, WHM, WHT		Spiral Internal Retainer Rings	Steel	205-207
	VS, WS, WST, WSM		Spiral External Retainer Rings	Steel	208-209
	NAN		Eaton NAN Series Internal Retainer Rings	Steel	210









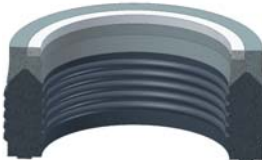
SEAL PROFILE INDEX

INCH SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
RETAINER RINGS	XAN		Eaton XAN Series External Retainer Rings	Steel	210
	300		Internal Retainer Rings (Tru-Arc Type)	Steel	211
	310		External Retainer Rings (Tru-Arc Type)	Steel	212
	RSR		Style RSR Retainer Rings	Steel	212
GASKETS	GASKETS		Custom Gaskets	Rubber, Veg Fiber, Non Asbestos, LDPE, HDPE, PTFE, . . . more	215-218
MISCELLANEOUS	LN CAT®		Lock Nuts	Steel Nylon	219-220
	CAP		Cap Plugs	Plastic	221-223
	400		Bonded Seals	Nitrile/ Steel Washer	224
	600		Face Seals	Steel Washer Rubber Seal	225









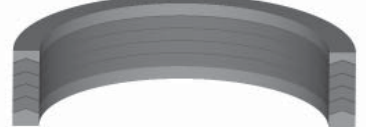
SEAL PROFILE INDEX

METRIC SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
MISCELLANEOUS	7500		Thread Seals	Nitrile/ Steel Washer	225
	SSR		Wave Rings	Steel	226
ROD U-SEALS	MRTUB		Style MRTUB Rod U-Seal W/Back-Up Rings	Urethane U-Seal Nitrile Expander Polyacetal Back-Up	232
	MRTU		Style MRTU Rod U-Seals	Urethane	232-233
	MRUB		Style MRUB Rod U-Seals w/Back-Up Rings	Urethane U-Seal Nylon Back-Up	233
ROD U-SEALS BACK-UP RINGS	MRU		Style MRU Rod U-Seals	Urethane	234-235
	MBN		Style MBN Rod U-Seal Back-Up Rings	Nylon	235
	MBT		Style MBT Back-Up Rings	PTFE	236-237
ROD SEALS	MSMR		Style MSMR Rod Seal w/Back-Up Rings	Rubber Seal Cotton Impreg Rubber Header Acetal Anti- Extrusion Ring	237










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METRIC SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
BUFFER SEALS	MYR		Style MYR Buffer Seals	Urethane Buffer Nylon Back-Up	238
	MBR		Style MR Buffer Seals	Filled PTFE Buffer Nylon Back-UP	238-239
	MNBR		Style MNBR Buffer Seals	Nylon / PTFE Buffer Rubber Energizer	239
	MSBR		Style MSBR Buffer Seals	Nylon Buffer Rubber Energizer	240
	MYBR		Style MYBR Buffer Seals	Filled PTFE Buffer Rubber Energizer	240
	MIR		Style MIR Buffer Seals	Urethane Buffer	241
U-SEALS	MPS		Style MPS Loaded Symmetrical U-Seals	Urethane U-Seal Rubber Expander	242-244
	MNU		Style MNU Symmetrical U-Seals	90 Durometer Nitrile	245
V-PACKING	MVS		Style MVS V-Packing	Rubber & Urethane Rings Nylon Adaptors	246-247




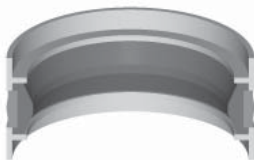





SEAL PROFILE INDEX

METRIC SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
PISTON U-SEALS	MUFN-PWO		Style MUFN-PWO Piston Seals	Rubber / Fabric Seal Acetal Back-Up Bearings	248
	MUFN-UWO		Style MUFN-UWO Piston Seals	Rubber / Fabric Seal Acetal Back-Up Bearings	249
	MHP26		Style MHP26 U-Type Two Piece Piston Seals	Rubber Piston Seal Nylon Back-Up	249
	MHP27		Style MHP27 U-Type Piston Seals	Rubber Piston Seal Acetal Back-Up	250
	MHP28		Style MHP28 U-Type Piston Seals	Rubber Piston Seal Nylon Back-Up	250
	MHP29		Style MHP29 U-Type Piston Seals	Rubber Piston Seal Nylon Back-Up	250
PISTON SEAL ASSEMBLIES	MPSR		Style MPSR Two Piece Piston Seals	PTFE Piston Seal Rubber Energizer	251-252
	MPSU		Style MPSU Two Piece Piston Seals	Glass / PTFE Filled Polyester Piston Seal Rubber Expander	253
	MBNP		Style MBNP Piston Seal Anti-Extrusion Rings	Nylon Back-Up Ring	254






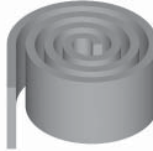



SEAL PROFILE INDEX

METRIC SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
PISTON SEAL ASSEMBLIES	MCTS		Style MCTS Four Piece Piston Seals	PTFE Cap Nylon Back-Up Rubber Expander	254-255
	CTC		Caterpillar® Specific Piston Seals	See Charts On Page	255
	MPSA		Style MPSA Five Piece Piston Seals	Fabric Reinforced Piston Seal Polyacetal Anti- Extrusion Ring	256-257
	MPSB		Style MPSB Three Piece Piston Seals	Fabric Reinforced Piston Seal Polyacetal Anti- Extrusion Ring	257
	MPSA-58		Style MPSA-58 Three Piece Piston Seals	Fabric Reinforced Piston Seal Polyacetal Anti- Extrusion Ring	258
	MPSA-59		Style MPSA-59 Three Piece Piston Seals	Fabric Reinforced Piston Seal Polyacetal Anti- Extrusion Ring	258
	MPSA-65		Style MPSA-65 Two Piece Piston Seals	Nitrile Piston Seal Acetal Bearings	259
	MNCF		Style MNCF Five Piece Piston Seals	Rubber / Fabric Piston Seal PTFE Back-Up Rings Nylon Bearings	259
PISTON RINGS	MMPR		Style MSPR Piston Rings	Cast Iron	260










SEAL PROFILE INDEX

METRIC SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
CUSHION SEALS	MRT		Style MRT Cushion Seals	Filled Nylon or Reinforced Phenolic	261
WEAR RINGS	MWR		Style MWR Wear Rings	Nylon	262-263
	MWRB		Style MWRB Wear Rings	Phenolic	263-265
	MWRT		Style MWRT Wear Rings	Filled PTFE	265-266
	MGF		Style MGF Flexible Guide Bearings	Fabric Reinforced Polyester	267
	MGB		Style MGB Flexible Guide Bearings	Bronze Filled PTFE	267
	MDU		Style MDU Rod Bushings	Bronze Lining PTFE Lead Overlay Steel Backing	268-269
	MWR-FD		Style MWR-FD Rod Bushings	Nylon	269
	MRA-L		Style MRA-L L-Shaped Rod Wear Rings	Acetal	269










SEAL PROFILE INDEX

METRIC SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
WIPER RINGS	MSWP		Style MSWP Snap-In Wipers	Urethane	270
	MSWE		Style MSWE Snap-In Wipers	Urethane	270-271
	MSWH		Style MSWH Snap-In Wipers	Urethane	271
	MSW		Style MSW Snap-In Wipers	Urethane	272
	MSWS		Style MSWS Snap-In Wipers	Urethane	273
	MSWN		Style MSWN Snap-In Wipers	Nitrile	273
	CSWM		Style CSWM Snap-In Wipers	Nylon	274
	MDK		Style MDK Snap-In Wipers	Nitrile	274
	MWSCK		Style MWSCK Snap-In Wipers	Nitrile	275










SEAL PROFILE INDEX

METRIC SEALS

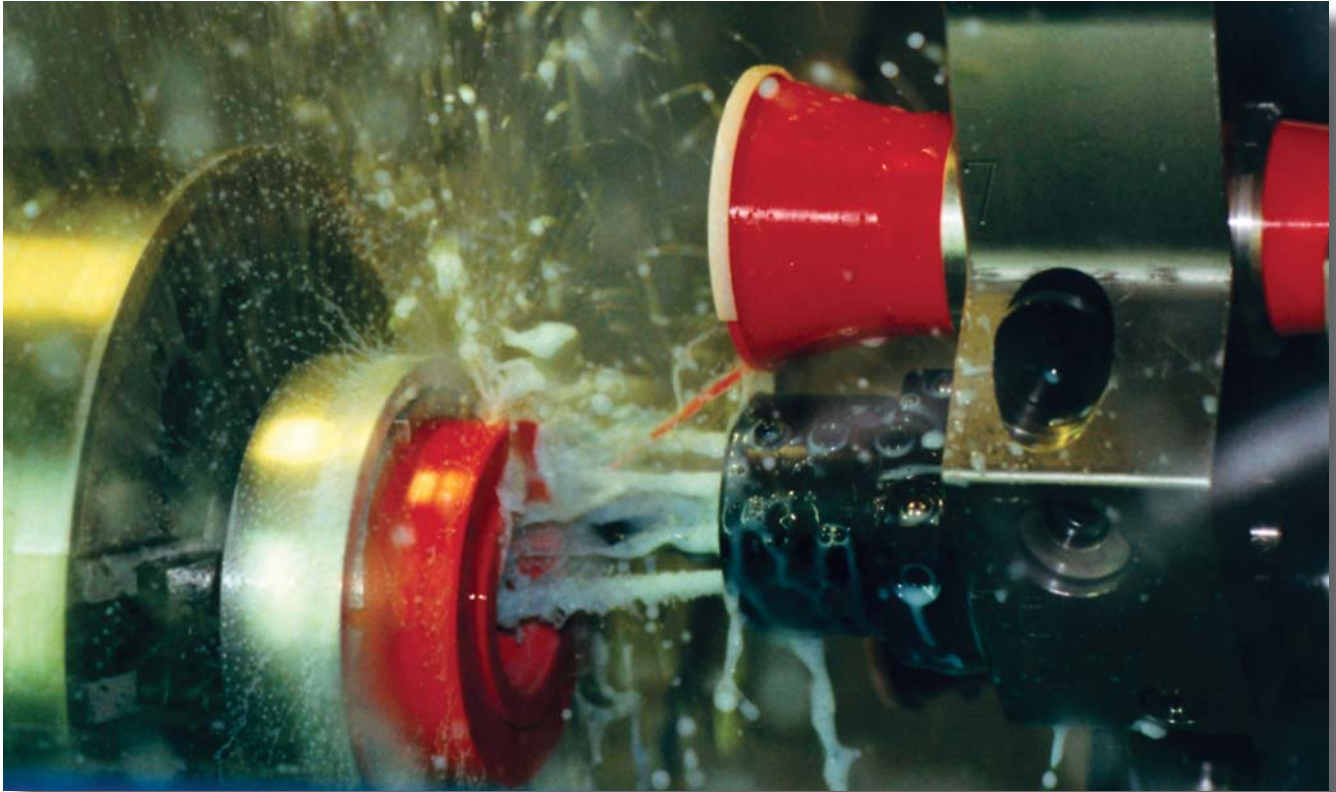
Type	Prefix	Product Image	Seal Name	Material	Page #
WIPER RINGS	MK51		Style MK51 Pneumatic Wiper	Urethane	275
	MCWH-U		Style MCWH-U Metal Clad Wipers	Urethane Lip Steel Case	276
	MCW		Style MCW Metal Clad Wipers	Urethane Lip Steel Case	277
	MCWE		Style MCWE Metal Clad Wipers	Urethane Lip Steel Case	278
	MCWI		Style MCWI Metal Clad Wipers	Urethane Lip Steel Case	279
	MCWS		Style MCWS Metal Clad Wipers	Urethane Lip Steel Case SS Spring	279
	MCWH-N		Style MCWH-N Metal Clad Wipers	Nitrile Lip Steel Case	280
	MCWN		Style MCWN Metal Clad Wipers	Nitrile Lip Steel Case	280-281
PIN SEALS	MDS		Style MDS Lip Pin Dust Seals	Nitrile Lip Steel Case	282

SEAL PROFILE INDEX

METRIC SEALS

Type	Prefix	Product Image	Seal Name	Material	Page #
PIN SEALS	MCWA		Style MCWA Metal Clad Wipers	Urethane Lip Steel Case	282
O-RINGS	METRIC O-RING		Style Metric O-Rings	70A or 90A Durometer Nitrile or 75A Durometer Fluorocarbon	285-295
BACK-UP RINGS	MBT		Style MBT Back-Up Rings	PTFE	298-299
	MBU		Style MBU Back-Up Rings	Urethane	299
OIL SEALS	MOS		Style MOS Oil Seals	Rubber Lip Steel Case	300-302
RETAINER RINGS	MSL		Spiral Internal Retainer Rings	Steel	303
	M300		Internal Retainer Rings (Tru-Arc Type)	Steel	303
	M310		External Retainer Rings (Tru-Arc Type)	Steel	303
	MSR		Style MSR U-Seal Retainer Rings	Acetal	304

CUSTOM MACHINED SEALS



**WE HAVE THE TECHNOLOGY TO MANUFACTURE
CUSTOM SEALS IN AN UNLIMITED NUMBER
OF PROFILES.**

INDUSTRIES:

- Aerospace
- Agriculture
- Automotive
- Excavation
- Food Processing
- Hi-Tech
- Hydraulic
- Manufacturing
- Medical
- Mining
- Oil
- Refuse Handling

CAPABILITIES

Fluid Sealing: We use advanced computer software to make up to 115 standard profiles ranging from piston and rod seals to wipers and guide rings. We also make custom designs for almost any fluid power application. From rubber and polyurethane to plastics, or PTFE, we can machine seals up to 16" outside diameter (660mm) in-house and up to 59" outside diameter through our business partners.

Custom Profiles: In addition, our sophisticated machining technology permits us to make designs for almost any application. Provide us with a print or send us a sample and we can supply virtually any custom profile including:

- Valve Seats
- Bushings
- Shims
- Rollers
- Pump Seats
- Bump Stops
- Rings
- Wheels
- Stem Guides
- Parker® Accumulator Seals
- Spacers
- Bearings