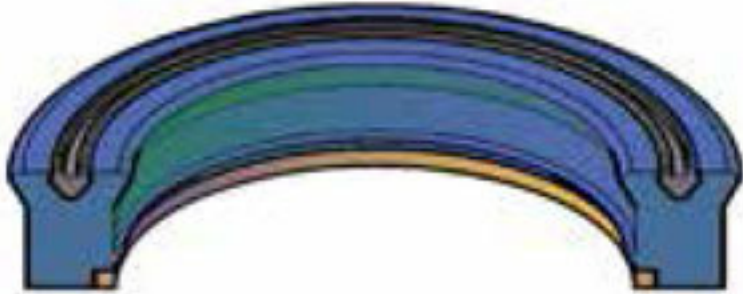

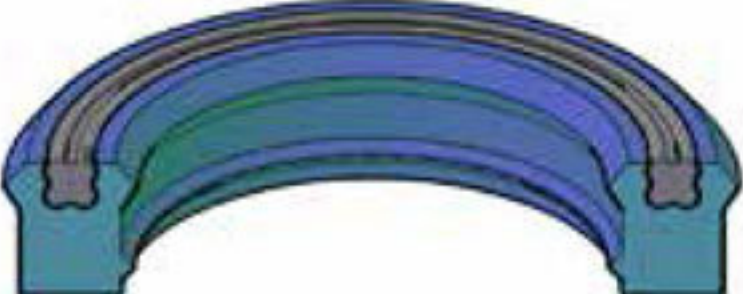







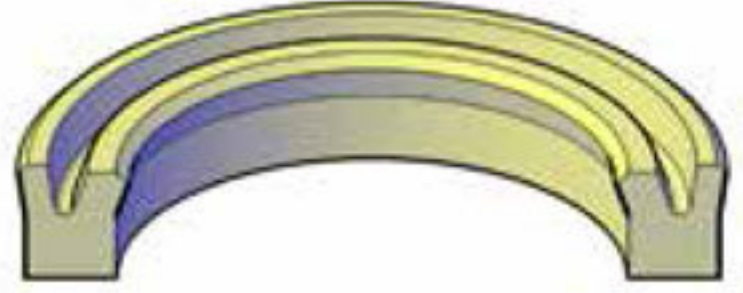

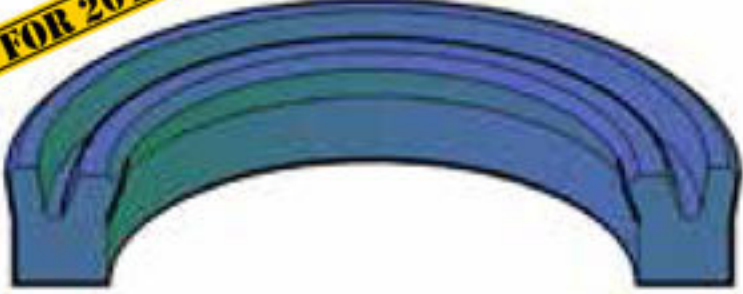

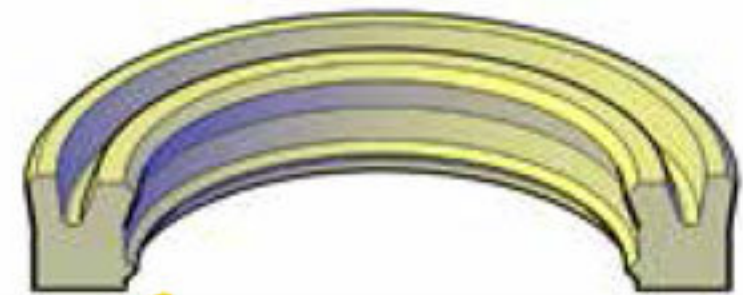

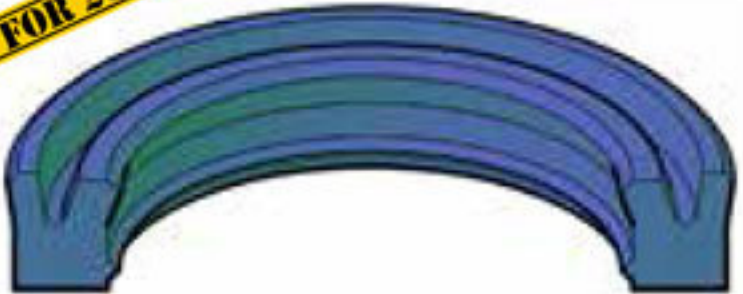

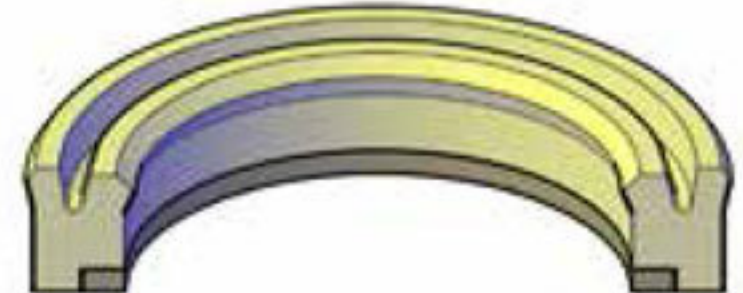



SEAL PROFILE INDEX

INCH SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
ROD U-SEALS	RTUB Super-Duty Rod U-Seals			Urethane Seal Rubber Energizer Polyacetal Ring	-50° - +230° F	0 - 6,000 PSI	3 FT/SEC	12 - 14
	RTUL Quad Ring Loaded Rod U-Seals			Urethane Seal Rubber Energizer	-40° - +225° F	0 - 5,000 PSI	3 FT/SEC	15
	RTU Asymmetric Twin Lip Rod U-Seals			Urethane	-40° - +225° F	0 - 5,000 PSI	3 FT/SEC	16 - 21
	RU9 Urethane Rod U-Seals			Urethane	-31° - +270° F	0 - 5,800 PSI	1.65 FT/ SEC	22 - 23
	RU Urethane Rod U-Seals			Urethane	-40° - +200° F	0 - 5,000 PSI	3 FT/SEC	24 - 25
	DRU Heavy Duty Rod U-Seals			Urethane	-65° - +230° F	0 - 6,000 PSI	3 FT/SEC	26 - 29
	DRU- BHT Heavy Duty Rod U-Seals			Urethane	-31° - +250° F	0 - 7,250 PSI	1.5 FT/ SEC	30 - 31
	DRTU Heavy Duty Rod U-Seals			Urethane	-65° - +230° F	0 - 6,000 PSI	3 FT/SEC	32 - 34
	DRTU- BHT Heavy Duty Rod U-Seals			Urethane	-31° - +250° F	0 - 7,250 PSI	1.5 FT/ SEC	35 - 37
	DRUB Heavy Duty Rod U-Seals w/Back-Up Rings			Urethane Seal Nylon Back- Up	-40° - +230° F	0 - 6,000 PSI	3 FT/SEC	38

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
ROD U-SEALS	UFN-EI Rod Seals w/Back-Up Rings			Nitrile Seal, Fabric Rein- forced Base, Acetal Back-Up	-22° - +212° F	0 - 5,800 PSI	1.5 FT/ SEC	39 - 40
	UFN- BR Rod Seals w/Headers			Rubber, Fabric, Polyester Elastomer	-22° - +212° F	1.64 FPS / 3600 PSI 0.49 FPS / 5800 PSI	1.5 FT/ SEC	41
	UFN-EI- SAG Rod Seals w/Back-up Rings			Rubber, Fabric, Acetal	-22° - +212° F	1.64 FPS / 3600 PSI 0.49 FPS / 5800 PSI	1.5 FT/ SEC	42
	UFN-WI Rod Seal w/Clip on Bearing			Rubber, Fabric, Acetal	-22° - +212° F	1.64 FPS / 3600 PSI 0.49 FPS / 5800 PSI	1.5 FT/ SEC	43
	HMU Urethane U-Seals			Urethane	-40° - +200° F	0 - 5,000 PSI	3 FT/SEC	44 - 45
	HMU Homoge- neous U-Seals			Buna-N Rubber Fluorocarbon	BUNA-N: -40° - +250° F FC: -20° - +400° F	BUNA-N: 0 TO 1,000 PSI FC: 0-2,000 PSI	3 FT/SEC	46 - 47
	UKR Rod U-Seals			Urethane	-40° - +200° F	0 - 150 PSI	3 FT/SEC	48 - 49
PISTON U-SEALS	DPU Heavy Duty Piston U-Seals			Urethane	-65° - +230° F	0 - 6,000 PSI	3 FT/SEC	50 - 54
	DPU- BHT Heavy Duty Piston U-Seals			Urethane	-31° - +250° F	0 - 7,250 PSI	1.5 FT/ SEC	55 - 56
	PU Piston U-Seals			Urethane	-40° - +225° F	0 - 5,000 PSI	3 FT/SEC	57 - 58

SEAL PROFILE INDEX

INCH SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
PISTON U-SEALS	UFN-PWO Piston Seals			Rubber / Fabric Seal, Acetal Back-Up Bearing	-22° - +212° F	0 - 5,800 PSI	1.5 FT/ SEC	59 - 60
	UFN-UEO Piston U-Seals			Rubber / Fabric Seal, Acetal Back-Up Bearing	-22° - +212° F	0 - 5,800 PSI	1.5 FT/ SEC	59 - 60
	UFN-UWO Piston U-Seals			Rubber / Fabric Seal, Acetal Back-Up Bearing	-22° - +212° F	0 - 5,800 PSI	1.5 FT/ SEC	59 - 60
	UKP Piston U-Seals			Urethane	-40° - +200° F	0 TO 150 PSI	3 FT/ SEC	61 - 62
U-SEALS	DSU Heavy Duty Symmetrical U-Seals			Urethane	-40° - +230° F	0 - 4,000 PSI	3 FT/ SEC	63 - 72
	DSU-BHT Heavy Duty Symmetrical U-Seals <i>NEW FOR 2015</i>			Urethane	-31° - +250° F	0 - 5,000 PSI	1.5 FT/ SEC	73 - 74
	HU Symmetrical Urethane U-Seals			Urethane	-40° - +200° F	0 - 5,000 PSI	3 FT/ SEC	75 - 80
	UPU Premium U-Seals			Urethane	-65° - +265° F	0 - 5,000 PSI	3 FT/ SEC	81 - 83
	U U-Seals			Urethane Seal Rubber Expander	-40° - +200° F	0 - 5,000 PSI	3 FT/ SEC	84 - 113
	U-PM U-Seals			55D Hytrel Seal FKM Energizer	-65° - +275° F	0 - 5,000 PSI	3 FT/ SEC	114 - 116

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INCH SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
U-SEALS	U-HT High-Temperature U-Seals			Urethane Seal Rubber Expander	-40° - +250° F	0 - 5,000 PSI	3 FT/ SEC	117 - 118
	U-V U-Seals			Fluorocarbon	-20° - +400° F	0 - 2,000 PSI	3 FT/ SEC	119 - 124
	U-Z Z-Seals			Urethane Base Rubber Lip	-40° - +200° F	0 - 5,000 PSI	3 FT/ SEC	125 - 130
	P U-Seals			Urethane Seal Rubber Expander	-40° - +200° F	0 - 5,000 PSI	3 FT/ SEC	131 - 145
	P-V U-Seals			Fluorocarbon	-20° - +400° F	0 - 2,000 PSI	3 FT/ SEC	146 - 147
	855 PRC Rings			Urethane	-40° - +200° F	0 - 5,000 PSI	3 FT/ SEC	148 - 149
	UFN-P Symmetrical Plain Seals			Nitrile Seal Fabric Reinforced Base	-22° - +212° F	0 - 2,900 PSI	1.5 FT/ SEC	150 - 152
	870 U-Seals			Buna-N Rubber	-40° - +240° F	0 - 500 PSI	3 FT/ SEC	153 - 155
	HRU Homogeneous U-Seals			Buna-N Rubber Fluorocarbon	BUNA-N: -40° - +250° F FC: -20° - +400° F	BUNA-N: 0 - 1,250 PSI FC: 0-2,000 PSI	3 FT/ SEC	156 - 160
	HSU Homogeneous U-Seals			Buna-N Rubber Fluorocarbon	BUNA-N: -40° TO +250° F FC: -20° TO +400° F	0 - 2,000 PSI	3 FT/ SEC	161 - 163













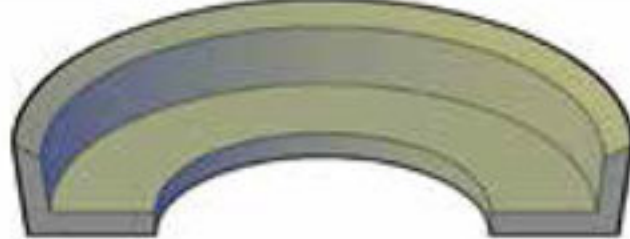

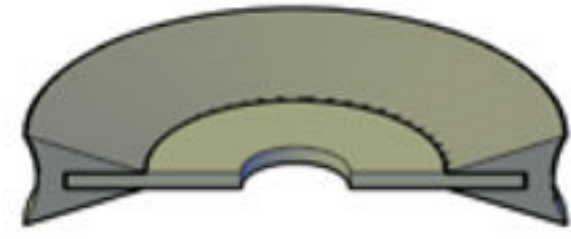

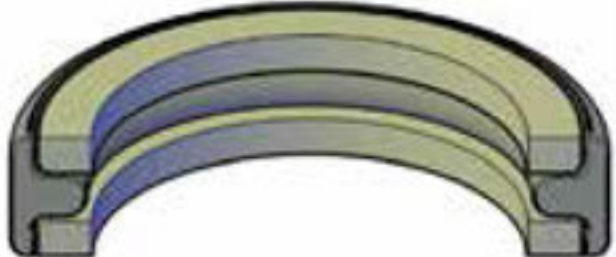



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INCH SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
BUFFER SEALS	DYR Rod Buffer Seals			Urethane U-Seal Buffer Polyacetal Back-Up	-40° - +230° F	0 - 8,000 PSI	3 FT/ SEC	164 - 165
	DYR-BHT Rod Buffer Seals			Urethane Seal Polyacetal Ring	-31° - +250° F	0 - 8,000 PSI	1.5 FT/ SEC	166
	KR Rod Buffer Seals			PTFE Buffer Rubber Expander	-40° - +225° F	0 - 5,000 PSI	12 FT/ SEC	167 - 168
	KR-V Rod Buffer Seals			Bronze PTFE Buffer FKM Expander	-20° - +400° F	0 - 5,000 PSI	12 FT/ SEC	169 - 170
	RBS Rod Buffer Seals			Urethane	-40° - +200° F	0 - 5,000 PSI	3 FT/ SEC	171
	CTC Caterpillar® Specific Buffers			DYR Style, Urethane or Bronze Filled PTFE Buffer Rubber Expander	-22° - +230° F -40° - +200° F -40° - +220° F	0 - 6,000 PSI 0 - 5,000 PSI	3 FT/ SEC 12 FT/ SEC	172 - 174
	BRS Rod Buffer Seals			Bronze PTFE Buffer Rubber Expander	-40° - +220° F	0 - 5,000 PSI	15 FT/ SEC	175
VEE PACKING	HDLV Hydrolocking Vee Packing Sets			Hytrell & Nylon	-40° - +220° F	0 - 6,000 PSI	1.5 FT/ SEC	176 - 178
	VS Vee Packing			Rubber & Urethane, Fluorocarbon Ring Nylon Adap- tor	-35° - +220° F	0 - 10,000 PSI	1.5 FT/ SEC	179 - 183
	CAS Cascade® Specific Vee Packing			Rubber & Urethane Ring Nylon Adap- tor	-35° - +220° F	0 - 10,000	1.5 FT/ SEC	184




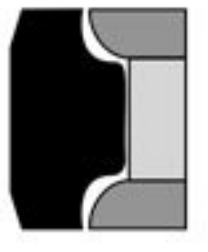


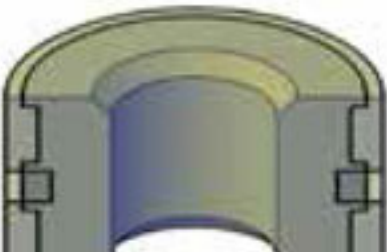
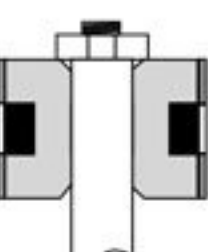
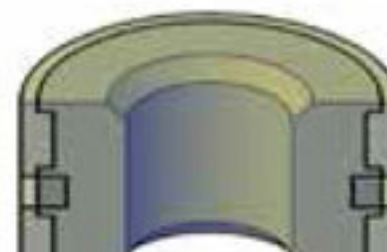
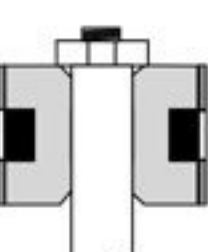

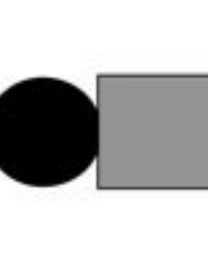
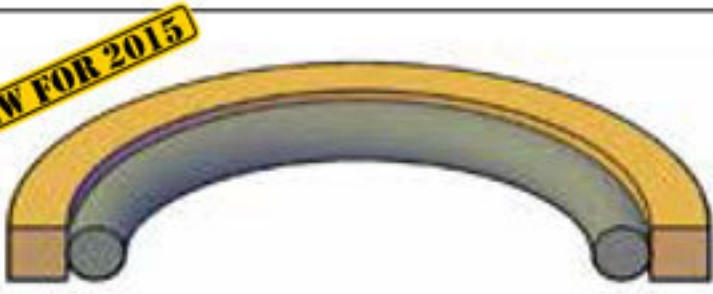


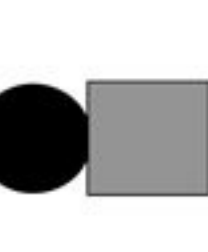


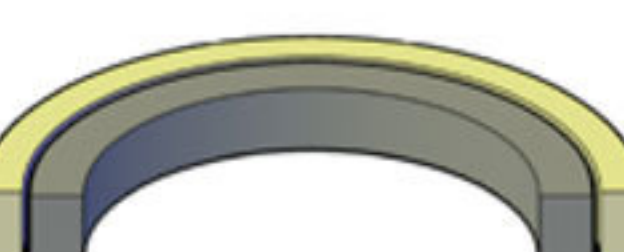
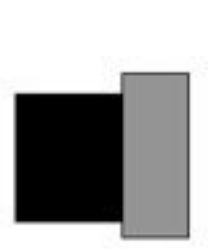
SEAL PROFILE INDEX

INCH SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
VEE PACKING	VR Individual Vee Rings & Adaptors			Fabric Reinforced Rubber, Urethane & Nylon Ring	-35° - +220° F	0 - 5,000 PSI	1.5 FT/ SEC	185 - 187
	935 Vee Rings			PTFE	-100° - +400° F	0 - 5,000 PSI	12 FT/ SEC	188
	835 Homogeneous Rubber Vee Rings			70 Durometer Buna-N Rubber	-40° - +220° F	0 - 1,250 PSI	3 FT/ SEC	189
	WV Styles 850 - 855 WV Packing			Fabric Reinforced Rubber & Buna-N Rubber	-40° - +250° F	SEE CHART	1.5 FT/ SEC	190 - 194
PISTON CUPS	6000 Piston Cups			Buna-N Rubber	-40° - +220° F	0 - 150 PSI	3 FT/ SEC	195 - 196
	8000 Piston Cups			Urethane	-65° - +220° F	0 - 1,200 PSI	3 FT/ SEC	197
	9000 Neo Fab Piston Cups			Fabric Reinforced Rubber	-35° - +220° F	0 - 2,500 PSI	1.5 FT/ SEC	198 - 200
	DAPC One Piece Double Acting Piston Cups			Rubber Lip Zinc Coated Steel Plate	-40° - +220° F	0 - 800 PSI	3 FT/ SEC	201
T-SEALS	TR Rod T-Seals			Hard Plastic Back-Up Buna-N Rubber Seal	-35° - +220° F	0 - 5,000 PSI	3 FT/ SEC	202 - 203
	TP Piston T-Seals			Hard Plastic Back-Up Buna-N Rubber Seal	-35° - +220° F	0 - 5,000 PSI	3 FT/ SEC	204 - 207

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INCH SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
T-SEALS	TP-L Locking Piston T-Seals			Hard Plastic Back-Up Buna-N Rubber Seal	-35° - +220° F	0 - 5,000 PSI	3 FT/ SEC	208 - 209
	CPS Capped Piston T-Seals			PTFE Cap Nylon Back- Up Rubber Expander	-40° - +220° F	0 - 6,000 psi	4.5 FT/ SEC	210 - 212
	CTC Piston T-Seals for Caterpillar			Buna-N Rubber Seal Hard Plastic Back-Up	-40° - +220° F	0 - 6,000 psi	-	213
UNITIZED PISTONS	PA Unitized Pistons			Steel Piston Glass Filled PTFE Seal Rubber Expander	-40° - +230° F	5,000 PSI	3 FT/ SEC	214
	BOBCAT Unitized Pistons			Steel, Nylon, NBR, PTFE	-40° - +230° F	0 - 5,000 PSI	3 FT/ SEC	215
PISTON SEAL ASSEMBLIES	PS1400 Piston Seals			Glass Filled PTFE Piston Seal Rubber Expander	-40° - +220° F	0 - 5,000 PSI	12 FT/ SEC	216 - 218
	PS1704 Piston Seals			Glass Filled Polyester Rubber Energizer	-40° - +230° F	0 - 5,000 PSI	3 FT/ SEC	219 - 220
	PS1500 Piston Seals			Urethane Seal Rubber Expander	-40° - +200° F	0 - 5,000 PSI	3 FT/ SEC	221 - 222
	PS1600 Two Piece Piston Seals			Glass Filled PTFE Piston Seal Rubber Expander	-40° - +220° F	0 - 5,000 PSI	12 FT/ SEC	223 - 224
	PS1800 Seals			Glass Filled PTFE Piston Seal Rubber Expander	-40° - +220° F	0 - 5,000 PSI	12 FT/ SEC	225 - 226

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INCH SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
PISTON SEAL ASSEMBLIES	PS1850 Piston Seals			Bronze Filled PTFE Piston Seal Rubber Expander	-40° - +220° F	0 - 5,000 PSI	12 FT/ SEC	227 - 228
	PS1708 Piston Seals			Glass Filled Polyester Rubber Energizer	-40° - +230° F	0 - 5,000 PSI	3 FT/ SEC	229
	PS1900 Piston Seals			Glass Filled PTFE Seal Rubber Energizer	-40° - +220° F	0 - 5,000 PSI	12 FT/ SEC	230
	PS2700 Piston Seals			Glass / PTFE Filled Polyester Piston Seal Rubber Expander	-40° - +220° F	0 - 5,000 PSI	3 FT/ SEC	231 - 232
	PSQ Piston Seals			Bronze Filled PTFE Piston Seal Rubber Expander	-40° - +250° F	0 - 5,000 PSI	6 FT/ SEC	233 - 234
	PS2470 Piston Seals			Bronze Filled PTFE Piston Seal Rubber Expander	-40° - +220° F	0 - 5,000 PSI	12 FT/ SEC	235
	PS914 Step Cut Piston Seals			Glass Filled Nylon Piston Seal Rubber Expander	-40° - +220°	0 - 6,000 PSI	3 FT/ SEC	236 - 237
	PS2000 Step Cut Piston Seals			Glass Filled Nylon Piston Seal Rubber Expander	-40° - +220° F	0 - 5,000 PSI	3 FT/ SEC	238 - 239
	CTC Caterpillar® Two Piece Piston Seals			Glass Filled Nylon or Glass Filled PTFE Piston Seal Rubber Expander	-40° - +220° F -40° - +220° F		3 FT/ SEC 12 FT/ SEC	240 - 241
	PSA Piston Seals			Fabric Reinforced Piston Seal Polyacetal Anti-Extru- sion Ring	-22° - +212° F	0 - 6,000 PSI	1.5 FT/ SEC	242 - 243



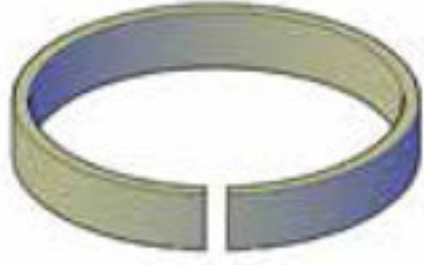





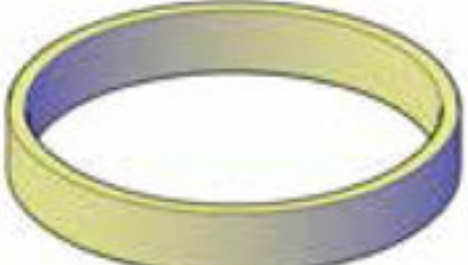

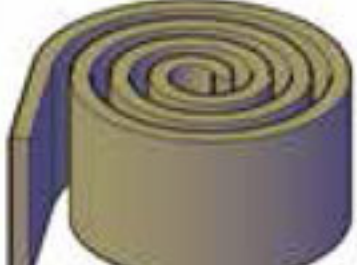

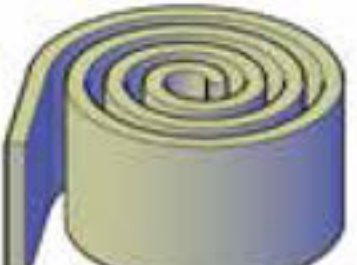



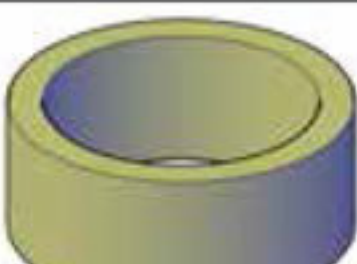

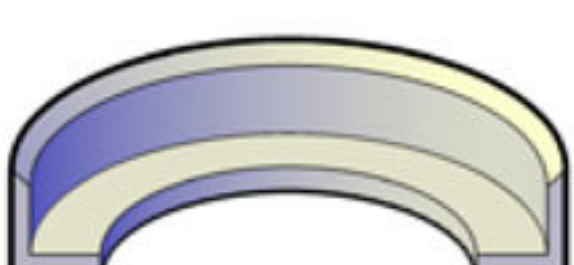

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INCH SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
PISTON SEAL ASSEMBLIES	PSA-58 Three Piece Piston Seals			Fabric Reinforced Piston Seal Polyacetal Anti-Extru- sion Ring	-22° - +212° F	0 - 5,000 PSI	1.5 FT/ SEC	244 - 245
	PSA-59 Three Piece Piston Seals			Fabric Reinforced Piston Seal Polyacetal Anti-Extru- sion Ring	-22° - +212° F	0 - 5,000 PSI	1.5 FT/ SEC	246 - 247
	PSA-65 Piston Seals			Fabric Reinforced Piston Seal Polyacetal Anti-Extru- sion Ring	-22° - +212° F	0 - 3,000 PSI	1.5 FT/ SEC	248
	PSA-83 PSA-83-W Piston Seals			Nitrile Piston Seal Polyacetal Anti-Extru- sion Ring & Bearings	-22° - +212° F	0 - 6,000 PSI	1.5 FT/ SEC	249
	PSF Piston Seals			Rubber Seal PTFE Back-Up Polyacetal Anti-Extru- sion Ring	-22° - +212° F	0 - 3,000 PSI	3 FT/ SEC	250
	PSC Piston Seals			Urethane Seal Rubber Energizer	-40° - +200° F	0 - 5,000 PSI	3 FT/ SEC	251 - 253
	PSC-F Piston Seals			95A Poly- urethane Seal 70A Nitrile Ener- gizer	-40° - +235° F	0 - 5,000 PSI	3 FT/ SEC	254
	PSM Two Piece Piston Seals			Urethane Seal Rubber Energizer	-40° - +200° F	0 - 5,000 PSI	3 FT/ SEC	255 - 256
	PSM- DPAC Two Piece Piston Seals			Urethane Seal NBR Energizer	-22° - +212° F	0 - 5,800 PSI	1.5 FT/ SEC	257 - 258
	PSU Piston Seals			Urethane	-40° - +200° F	0 - 5,000 PSI	3 FT/ SEC	259 - 260



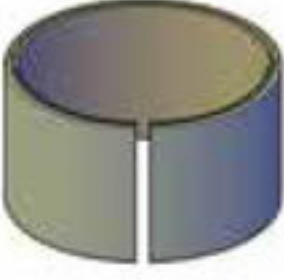







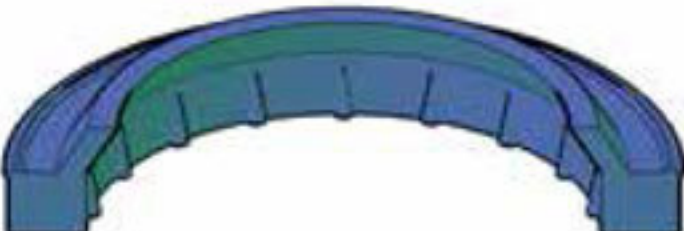

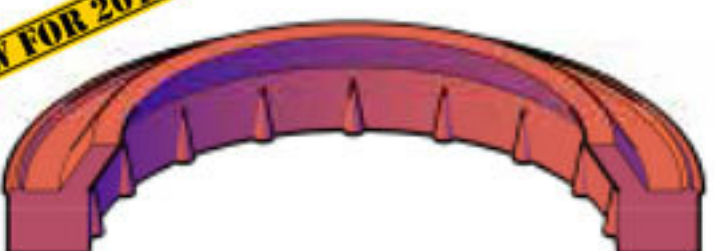

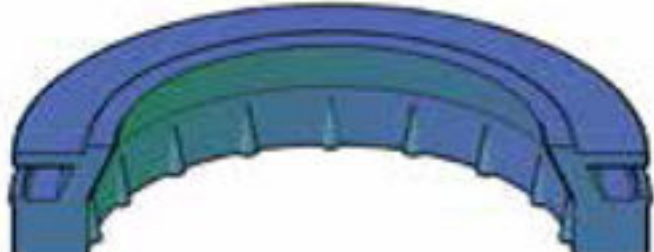

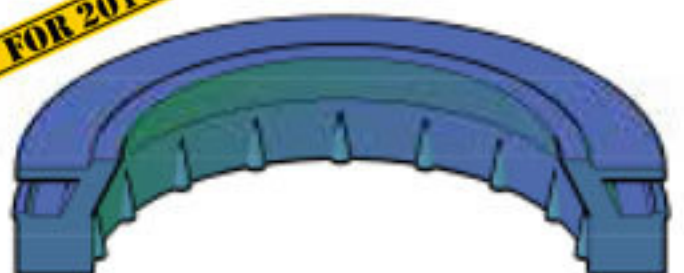



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INCH SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
PISTON RINGS	SPR Iron Piston Rings			Iron	-	-		261 - 267
	606-625 Wear Rings			Nylon	-40° - +275° F	-		269 - 275
WEAR RINGS	PB Hercules® Powerbands			Nylon, Glass Fiber and PTFE Blend	-40° - +275° F	-		276 - 278
	614 Rod Bearings			Nylon	-40° - +275° F	-		279 - 280
	615 Rod Bearings			Phenolic	-67° - +248° F	-	3 FT/ SEC	280
	606T 612T Flexible Guide Bearings			PTFE	-50° - +400° F	-	12 FT/ SEC	281
	612F Flexible Guide Bearings			Fabric Reinforced Polyester	-40° - +250° F	-	3 FT/ SEC	282
	606F 612F Flexible Guide Bearings - Boxed			Fabric Reinforced Polyester	-40° - +250° F	-	3 FT/ SEC	282
	660 Rod Bearings			Bronze	-	-	-	283
	FB Follower Bearings			Polyester	-65° - +220° F	-	3 FT/ SEC	283

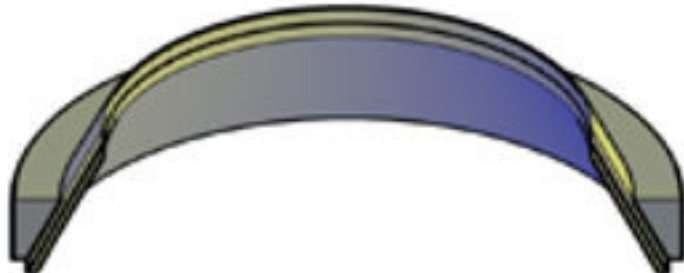



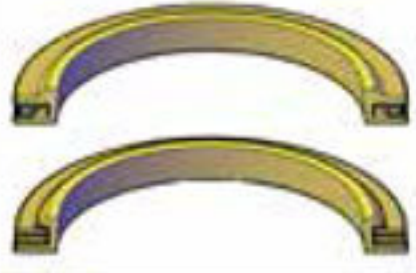



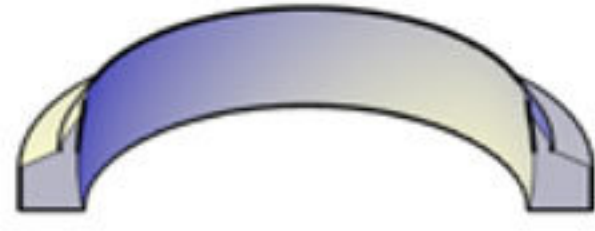











SEAL PROFILE INDEX

INCH SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
WEAR RINGS	MB Modular Back-Up Bearings			70 Shore D Urethane	-40° - +230° F	-	3 FT/ SEC	284
	DU Rod Bushings			Bronze Lining PTFE/Lead Overlay Steel Backing	-325° - +536° F	-	12 FT/ SEC	285
WIPER RINGS	ST Wiper RIngs			Urethane & Fluorocarbon	URE- THANE: -40° - +200° F FLURO- CARBON: -20° - +400° F	-	3 FT/ SEC	286 - 289
	ST-SH Wiper RIngs w/ Slotted Heel			90A Urethane	-40° - +200° F	-	3 FT/ SEC	290 - 291
	STXE Wiper Rings			Urethane Rubber Expander	-40° - +200° F	-	3 FT/ SEC	292
	ST-XL Wiper Rings			Urethane	-40° - +230° F	-	3 FT/ SEC	293 - 294
	ST-XL- PM Wiper Rings			55D Polyester	-40° - +250° F	-	12 FT/ SEC	296
	ST-XLF Wiper Rings			Urethane	-50° - +230° F	-	12 FT/ SEC	296
	ST- XLFT Wiper Rings			Urethane	-50° - +230° F	-	12 FT/ SEC	297
	ST-E Wiper Rings			Urethane	-31° - +212° F	-	3 FT/ SEC	298

SEAL PROFILE INDEX

INCH SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
WIPER RINGS	SG Seal Guard Metallic Rod Wipers			Bronze Rubber Expander	-40° - +240° F	-	-	299
	AN Wiper Rings			Urethane	-40° - +200° F	-	3 FT/ SEC	300 - 304
	AN-M2 Wiper Rings			Brass	-30° - +300° F	-	-	305
	HW Wiper Rings			Urethane, Buna-N & Fluorocarbon	-40° - +200° F N: -40° - +225° F V: -20° - +350° F HT: -40° - +225° F	-	3 FT/ SEC	306 - 309
	BT Wiper Rings			Urethane	-40° - +200° F	-	3 FT/ SEC	310 - 311
	KW Wiper Rings			Urethane	-40° - +200° F	-	3 FT/ SEC	313 - 315
	SWNC Wiper Rings			Buna-N	-22° - +212° F	-	3 FT/ SEC	316 - 317
	CAS Wipers			Urethane	-65° - +220° F	-	3 FT/ SEC	317
	SWSN Wipers			Buna-N	-22° - +212° F	-	3 FT/ SEC	318 - 319
	SWNB Wiper Rings			Buna-N	-22° - +212° F	-	3 FT/ SEC	320

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INCH SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
WIPER RINGS	CSW Snap-In Wipers			Nylon	-40° - +212° F	-	3 FT/ SEC	321
	MCKU Metal Clad Wiper Rings			Urethane Lip Steel Case	-31° - +212° F	-	3 FT/ SEC	322
	MCHD Metal Clad Wiper Rings			Urethane Lip Steel Case	-65° - +230° F	-	3 FT/ SEC	323 - 324
	MCU-D Heavy Duty Metal Clad Wiper Rings			Urethane Lip Steel Case	-65° - +230° F	-	3 FT/ SEC	325 - 328
	MCN Metal Clad Wiper Rings			Nitrile Lip Steel Case	-40° - +240° F	-	3 FT/ SEC	329 - 330
	CWN Metal Clad Wiper Rings			Nitrile Lip Steel Case	-22° - +212° F	-	3 FT/ SEC	331
OIL SEALS	OS Oil Seals			Rubber Lip Steel Case	-40° - +240° F	-	3 FT/ SEC	332 - 338
O-RINGS	568 O-Rings			Buna-N Rubber, Fluorocarbon, Silicone, Ethylene Propylene, PTFE, Urethane	-40° - +240° F	VARIABLES ACCORDING TO DIAMETRAL CLEARANCE	-	344 - 386
	580 O-rings			Buna-N Rubber	-40° - +240° F	VARIABLES ACCORDING TO DIAMETRAL CLEARANCE	3 FT/ SEC	387 - 391
	QR Quad Rings			Buna-N Rubber	-40° - +240° F	VARIABLES ACCORDING TO DIAMETRAL CLEARANCE	3 FT/ SEC	392 - 396










SEAL PROFILE INDEX

INCH SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
O-RINGS	SFS Split Flange Seals			Urethane	-40° - +200° F	0 - 6,000 PSI	3 FT/ SEC	397
	PFS Split Flange Seals			Urethane	-40° - +212° F	0 - 7,200 PSI	-	398
	HS568 Head Seals			Urethane	-40° - +212° F	0 - 10,000 PSI	-	399 - 400
FIBER GASKETS	VMG Fiber Gaskets			Fiber	MAX 250°F	-	-	401
BACK-UP RINGS	573 Back-Up Rings			Hytrel	-65° - +275° F	VARIES ACCORD- ING TO DIAM- ETRAL CLEAR- ANCE	-	402 - 406
	574 "Parback®" Back-Up Rings			90A Buna-N Rubber	-40° - +240° F	VARIES ACCORD- ING TO DIAM- ETRAL CLEAR- ANCE	-	407 - 413
	575 Style 575 Back-Up Rings			Urethane PTFE	Urethane -65° - +220° F PTFE: -100° - +500° F	VARIES ACCORD- ING TO DIAM- ETRAL CLEAR- ANCE	-	414 - 425
	576 Split Nylon Back-Up Rings			Nylon	-40° - +250° F	VARIES ACCORD- ING TO DIAM- ETRAL CLEAR- ANCE	-	426
	590 High Performance Back-Up Rings			High Performance Urethane	-40° - +275° F	VARIES ACCORD- ING TO DIAM- ETRAL CLEAR- ANCE	-	427
	595 U-Seal Back-Up Rings			PTFE	-100° - +500° F	VARIES ACCORD- ING - DIAM- ETRAL CLEAR- ANCE	-	428

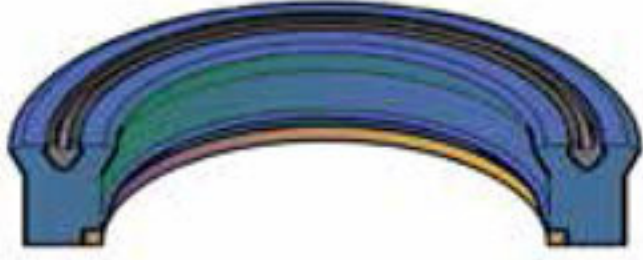

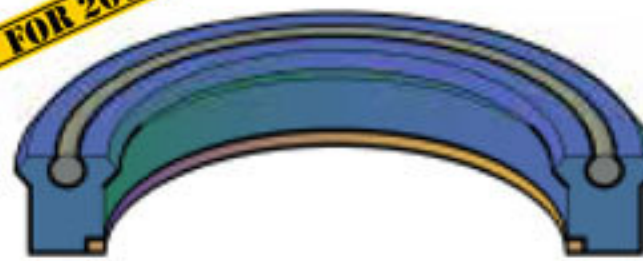



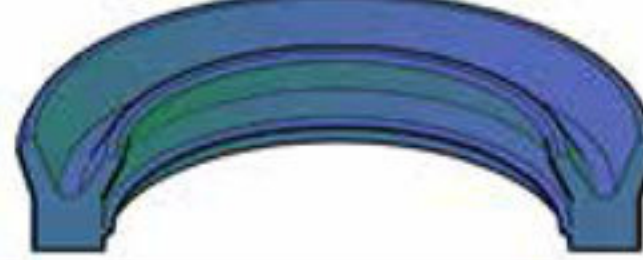

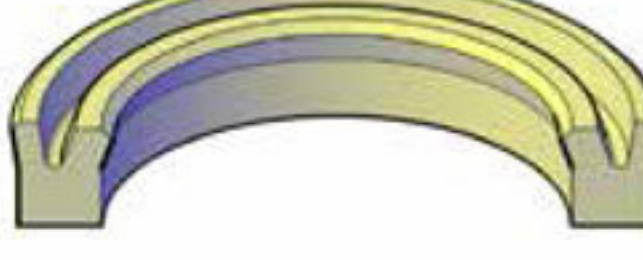

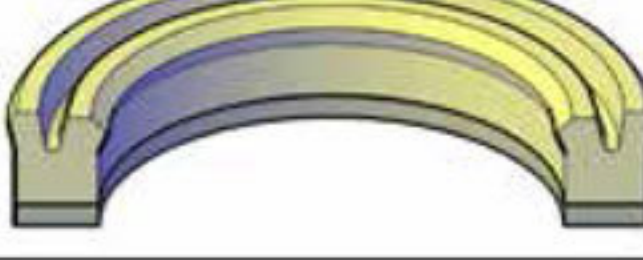

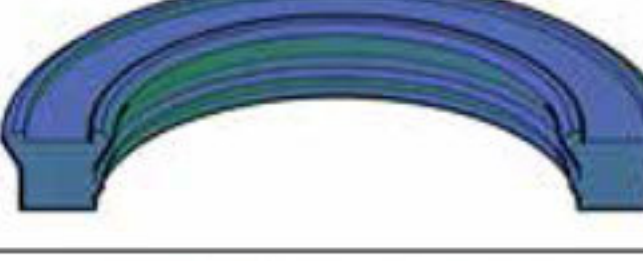

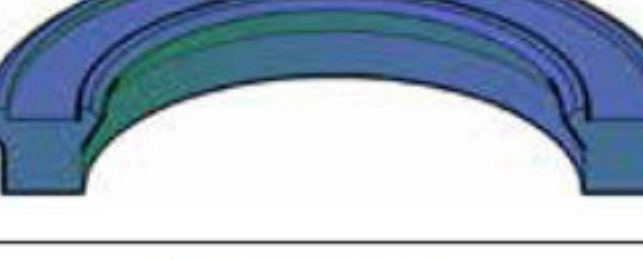

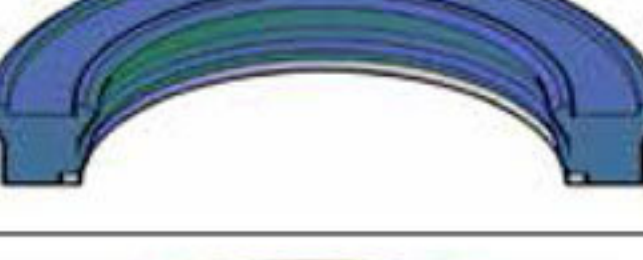



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INCH SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
RETAINER RINGS	VH, WH, WHM, WHT Spiral Internal Retainer Rings			Steel	-	-	-	429 - 432
	VS, WS, WST, WSM Spiral External Retainer Rings			Steel	-	-	-	433 - 435
	NAN Ea-n NAN Series Internal Retainer Rings			Steel	-	-	-	436
	XAN Ea-n XAN Series External Retainer Rings			Steel	-	-	-	437
	300 Retainer Rings			Steel	-	-	-	438 - 440
	310 Retainer Rings			Steel	-	-	-	441 - 442
	RSR Style RSR Retainer Rings			Steel	-	-	-	443
	SR U-Seal Retainer Rings			Acetal	-22° - +212° F	-	-	444

















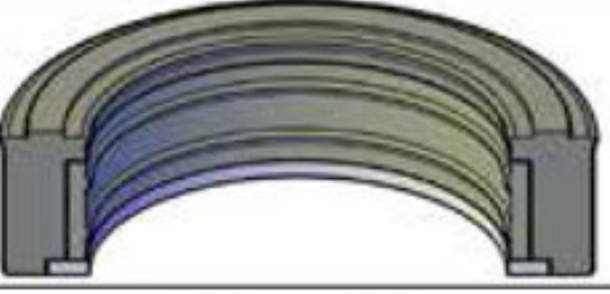
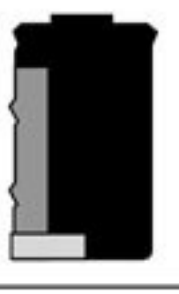


SEAL PROFILE INDEX

METRIC SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
ROD U-SEALS	MRTUB Super-Duty Rod U-Seals			Urethane U-Seal Nitrile Ex- pander Polyacetal Back-Up	-50° - +230° F	0 - 6,000 PSI	3 FT/ SEC	448 - 450
	MRUBL Super-Duty Rod U-Seals			Urethane U-Seal Rubber Energizer Polyacetal Back-Up	-50° - +230° F -32° - +140° F (HFA)	0 - 6,000 PSI	3 FT/ SEC	451 - 452
	MRT320			94A Urethane	-34° - +255° F	3,770 PSI 4,640 PSI 5,800 PSI 7,250 PSI	3 FT/ SEC	453 - 454
	MRTU Rod U-Seals			Urethane	-40° - +225° F	0 - 5,000 PSI	3 FT/ SEC	455 - 462
	MRU Rod U-Seals			Urethane	-65° - +230° F	0 - 5,000 PSI	3 FT/ SEC	463 - 471
	MRUB Rod U-Seals w/Back-Up Rings			Urethane U-Seal Nylon Back-Up	-40° - +230° F	0 - 5,500 PSI	3 FT/ SEC	472 - 473
	MRTS Rod U-Seals			Urethane	-22° - +212° F	0 - 5,000 PSI	3 FT/ SEC	474 - 476
	MUTS Rod U-Seals			Urethane	-22° - +212° F	0 - 5,000 PSI	3 FT/ SEC	474 - 476
	MRTSB Rod U-Seals			Urethane, Nylon Back- Up	-22° - +212° F	0 - 5,000 PSI	3 FT/ SEC	474 - 476
	MRU-LF Rod U-Seals			Urethane	-22° - +230° F	0 - 4,600 PSI	2 FT/ SEC	477



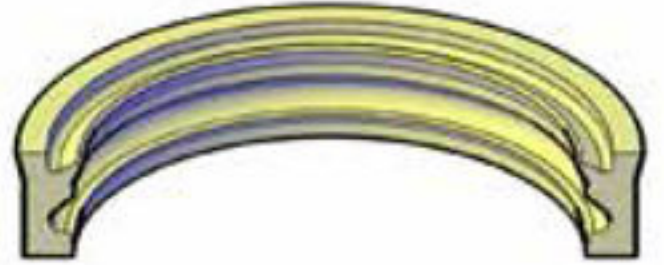

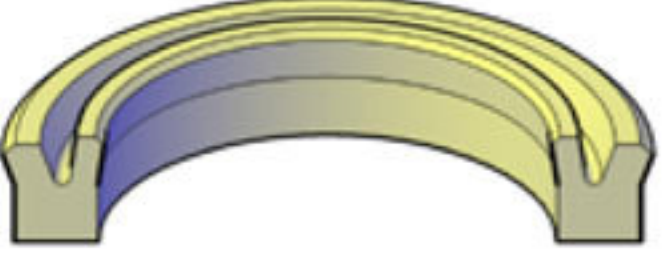








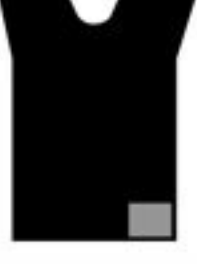


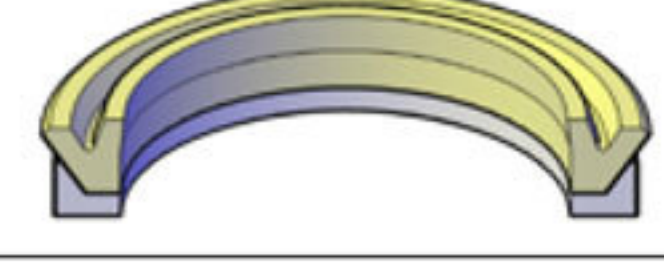



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METRIC SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
ROD U-SEALS	MHMU Rod U-Seals			Urethane	-50 - +230° F	0 - 5,000 PSI	3 FT/ SEC	478
	MRUN Rod U-Seals			Nitrile	-8° F - +212° F	0 - 2,000 psi W/O BACK-UP 0 - 3,000 psi W/ BACK-UP	3 FT/ SEC	479 - 482
	MRUNB Rod U-Seals w/Back-up Rings			Nitrile Seal Bronze- Filled PTFE Back-Up	-8° F - +212° F	0 - 3,000 PSI	3 FT/ SEC	483 - 484
ROD U-SEALS BACK-UP RINGS	MBN Rod U-Seal Back-Up Rings			Nylon	-67° - +212° F	0 - 5,000 PSI	3 FT/ SEC	485 - 486
	MBT Back-Up Rings			PTFE	-100° - +500° F	0 - 5,000 PSI	3 FT/ SEC	487 - 489
	MSMR Rod Seal w/Back-Up Rings			Rubber Seal Cot-n Impreg. Rubber Header Acetal Anti- Extrusion Ring	-22° - +212° F	0 - 10,000 PSI	3 FT/ SEC	490 - 491
	MUFN- EI Rod Seal w/Back-Up Rings			Nitrile Seal Fabric Reinforced Base Acetal Back- Up	-22° - +212° F	0 - 6,000 PSI	1.5 FT/ SEC	492 - 495
ROD SEALS	MUFN- BR Rod Seal w/Headers			Rubber, Fabric, Polyester Elastomer	-22° - +212° F	1.64 FPS / 3600 PSI 0.49 FPS / 5800 PSI	1.5 FT/ SEC	496
	MPDS Rod Seal			NBR/NEO- FAB Seal Acetal Anti- Extrusion Ring	-22° - +230° F	0 - 3,600 PSI	1.5 FT/ SEC	497
	MUKRN Pneumatic Rod Seals			80A NBR	-31° - +212° F	0 - 1,160 PSI	1.5 FT/ SEC	498 - 500

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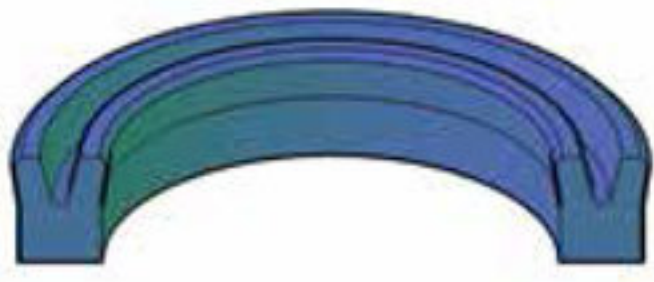



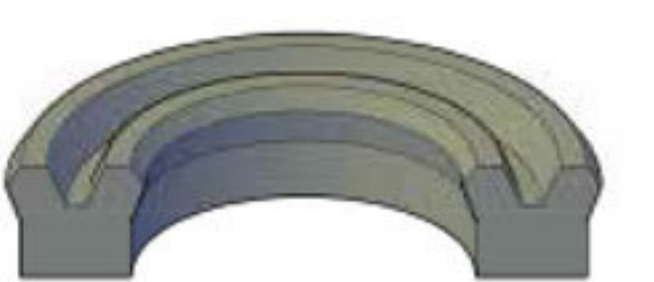




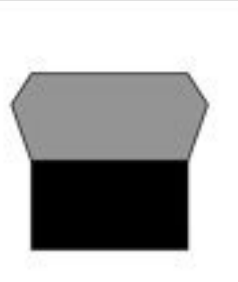
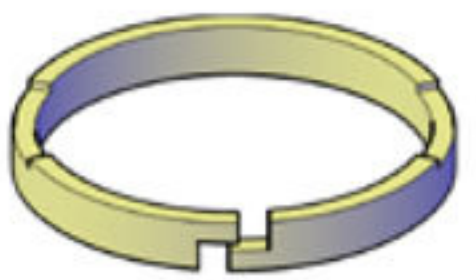

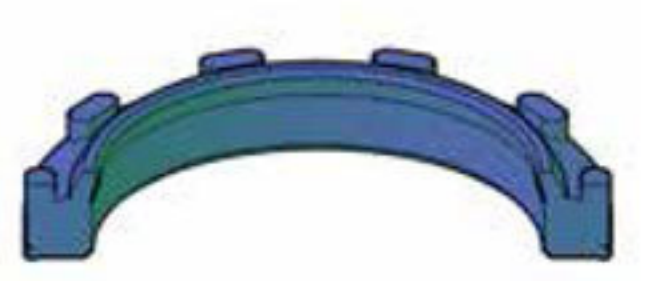





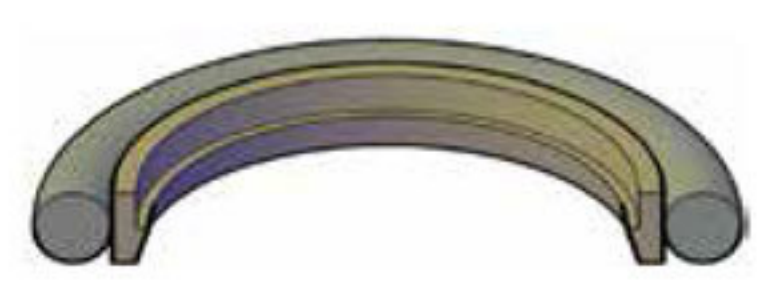

METRIC SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
ROD SEALS	PU-TDI Hunger® Hydraulic Rod Seals			Urethane BRZ-PTFE	-31° - +212° F	0 - 6,500 PSI	3 FT/ SEC	501 - 502
	PU-TDT* Hunger® Rod Seals			Urethane	-22° - +212° F	0 - 1,500 PSI	3 FT/ SEC	502
PISTON U-SEALS	MPU Piston Seals			Urethane	-22° - +212° F	0 - 5,000 PSI	3 FT/ SEC	503 - 505
	MUFN-UWO Piston Seals			Rubber / Fabric Seal Acetal Back-Up Bearings	-22° - +220° F	0 - 6,000 PSI	1.5 FT/ SEC	506
	MUFN-PWO Piston Seals			Rubber / Fabric Seal Acetal Back-Up Bearings	-22° - +220° F	0 - 6,000 PSI	1.5 FT/ SEC	507
	MHP26 U-Type Two Piece Piston Seals			Nitrile Seal Nylon Back-Up	-20° - +220° F	0 - 3,000 PSI	3 FT/ SEC	508 - 509
	MHP27 U-Type Piston Seals			Rubber Piston Seal Acetal Back-Up	-20° - +220° F	0 - 4,000 PSI	3 FT/ SEC	509
	MHP28 U-Type Piston Seals			Rubber Piston Seal Nylon Back-Up	-20° - +220° F	0 - 3,000 PSI	3 FT/ SEC	510
	MHP29 U-Type Piston Seals			Urethane Piston Seal Nylon Back-Up	-40° - +200° F	0 - 3,000 PSI	3 FT/ SEC	510
	MUKPN Pneumatic Piston Seal			80A NBR	-22° - +212° F	0 - 1,160 PSI	3 FT/ SEC	511 - 513

* Product information available online

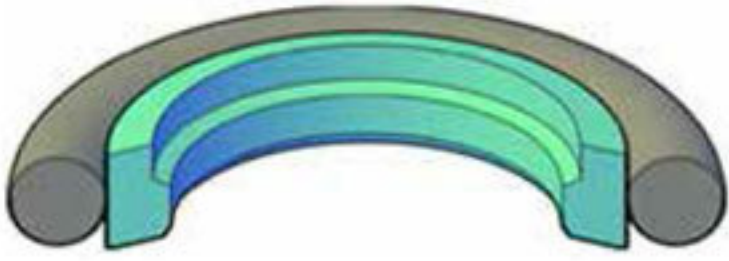
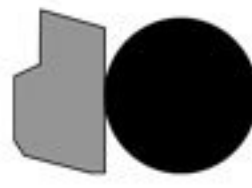


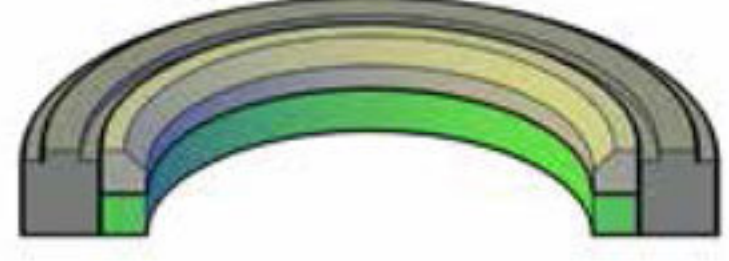



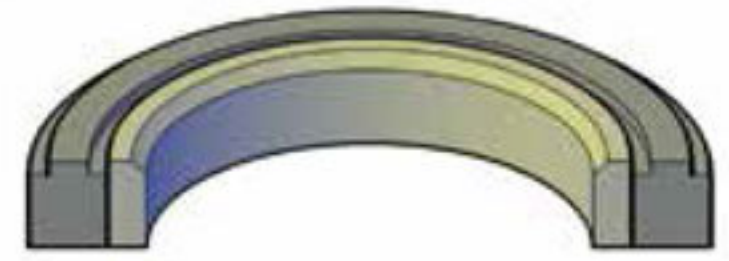


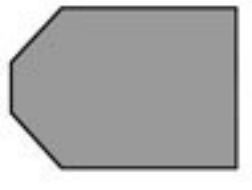

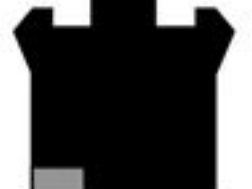


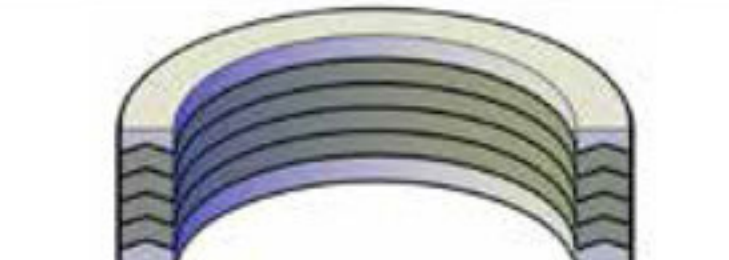
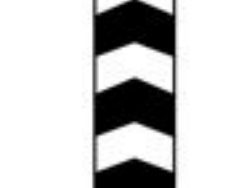
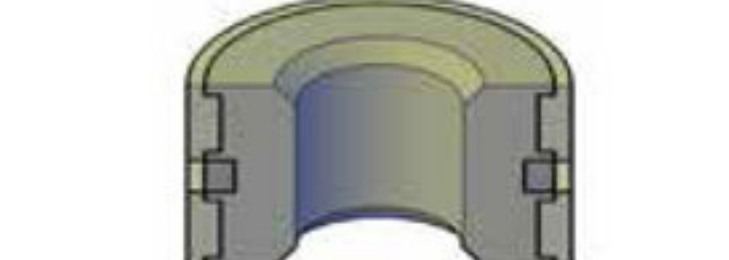
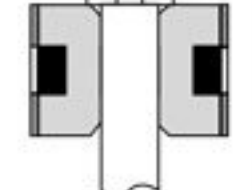
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METRIC SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
U-SEALS	MUU Symmetrical U-Seals			Urethane	-22° - +212° F	0 - 5,000 PSI	3 FT/ SEC	514 - 525
	MUUL Loaded Symmetrical U-Seals			Urethane U-Seal Rubber Expander	-40° - +200° F	0 - 5,000 PSI	3 FT/ SEC	526 - 533
	MUSN Symmetrical U-Seals			90 Durometer Nitrile	-13° - +212° F	0 - 2,000 PSI	3 FT/ SEC	534 - 537
	MUFN-U Symmetrical U-Seals			Nitrile U-Seal Fabric Reinforced Base	-22° - +212° F	0 - 2,900 PSI	1.5 FT/ SEC	538
	MUFN-P Symmetrical Seals			Nitrile Seal Fabric Reinforced Base	-22° - +212° F	0 - 2,900 PSI	1.5 FT/ SEC	539 - 542
CUSHION SEALS	MRT Cushion Seals			Filled Nylon or Reinforced Phenolic	Nylon -67° - +212° F Phenolic -67° - +248° F	0 - 5,000 PSI	-	543 - 545
	MCK53 Cushion Seals			Urethane	-22° - +176° F	0 - 230 PSI	1.5 FT/ SEC	546 - 547
BUFFER SEALS	MYR Buffer Seals			Urethane Buffer Nylon Back-Up	-30° - +220° F	0 - 7,000 PSI	3 FT/ SEC	548 - 549
	MYR-HT Buffer Seals			Urethane Buffer Nylon Back-Up	-67° - +248° F	0 - 7,250 PSI	3 FT/ SEC	550 - 551
	MKR Buffer Seals			Filled PTFE Buffer Rubber Energizer	-40° - +220° F	0 - 5,000 PSI	12 FT/ SEC	552 - 554







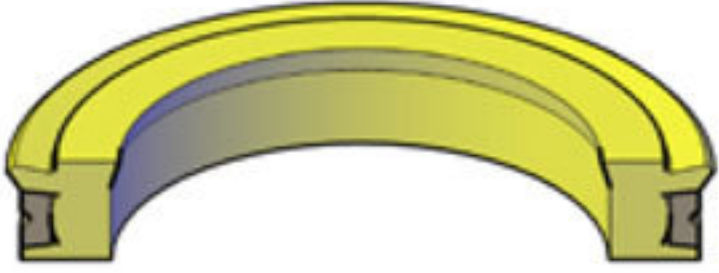

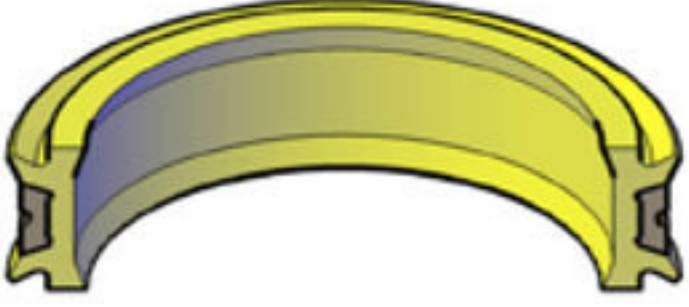
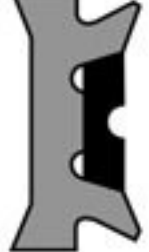
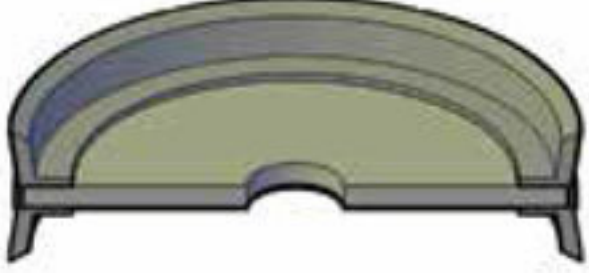









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METRIC SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
BUFFER SEALS	MKR-U Buffer Seals			Filled PTFE Buffer Rubber Energizer	-49° - +212° F	0 - 5,000 PSI	1.6 FT/ SEC	555 - 556
	MKR-V Buffer Seals			Bronze PTFE Buffer FKM Energizer	-20° - +400° F	0 - 5,000 PSI	12 FT/ SEC	557 - 558
	MNBR Buffer Seals			Nylon / PTFE Buffer Rubber Energizer	-40° TP +220° F	0 - 5,000 PSI	3 FT/ SEC	559
	MSBR Buffer Seals			Nylon Buffer Rubber Energizer	-40° - +220° F	0 - 5,000 PSI	3 FT/ SEC	560
	MYBR Buffer Seals			Filled PTFE Buffer Rubber Energizer	-40° - +220° F	0 - 5,000 PSI	12 FT/ SEC	561 - 562
	MIR Buffer Seals			Urethane Buffer	-40° - +200° F	0 - 5,000 PSI	3 FT/ SEC	562
	MBRW Buffer Seals			93A Urethane	-30° - +230° F	0 - 7,200 PSI	1.5 FT/ SEC	563
SWIVEL SEALS	MUSW Swivel Seals			Urethane	-50° - +220° F	0 - 5,000 PSI	3 FT/ SEC	564
VEE PACKING	MVS Vee Packing			Rubber & Urethane Rings Nylon Adaptors	-35° - +220° F	0 - 5,000 PSI	1.5 FT/ SEC	565 - 566
UNITIZED PISTONS	JD / NH John Deere® / New Holland Unitized Pistons			PTFE	-40° - +275° F	0 - 5,000 PSI	3 FT/ SEC	567 - 568

SEAL PROFILE INDEX

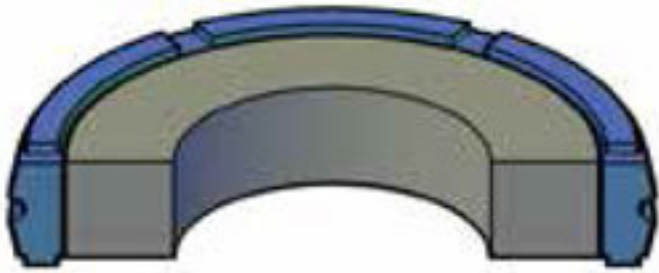



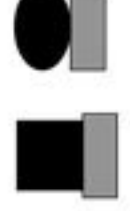
METRIC SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
PISTON SEAL ASSEMBLIES	MPK54 Pneumatic DA Piston Seal			70A NBR	-20° F, +220° F	0 - 175 PSI	3 FT/ SEC	569
	MPK62 Pneumatic DA Piston Seal			70A NBR	-20° - +220° F	0 - 175 PSI	3 FT/ SEC	570
	MAPA Pneumatic DA Piston Seal			80 NBR	-30° - +248° F	0 - 142 PSI	3 FT/ SEC	571
	PU- TDA* Hunger® Hydraulic Piston Seal			Urethane BRZ-PTFE	-31° - +212° F	0 - 6,500 PSI	3 FT/ SEC	571
	PU- TDMA* Hunger® Hydraulic Piston Seal			BRZ-PTFE Urethane	-31° - +212° F	0 - 3,600 PSI	3 FT/ SEC	571
	MDPC Pneumatic DA Piston Seal			75A Nitrile	-22° - +220° F	0 - 230 PSI	3 FT/ SEC	572
	MDPCS Hydraulic DA Piston Seal			90A Nitrile	-22° - +220° F	0 - 175 TO 0 - 870 PSI	3 FT/ SEC	573 - 574
	MDPC- 57			70A NBR	-22° - +220° F	0 - 175 PSI	3 FT/ SEC	574
	MPS Two Piece Piston Seals			PTFE Piston Seal Rubber Energizer	-40° - +230° F	0 - 5,000 PSI	12 FT/ SEC	575 - 579
	MPSU Two Piece Piston Seals			Glass / PTFE Filled Polyester Piston Seal Rubber Expander	-40 - +230° F	0 - 5,000 PSI	3 FT/ SEC	580 - 581

* Product information available online



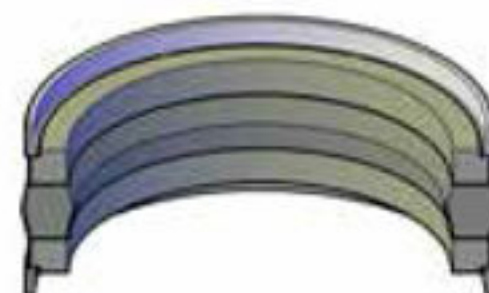



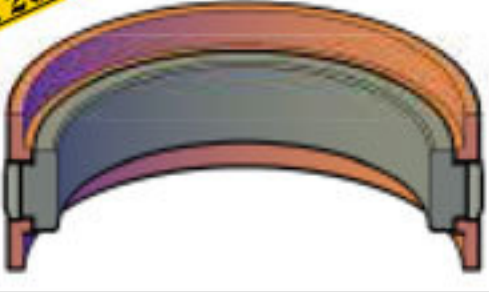



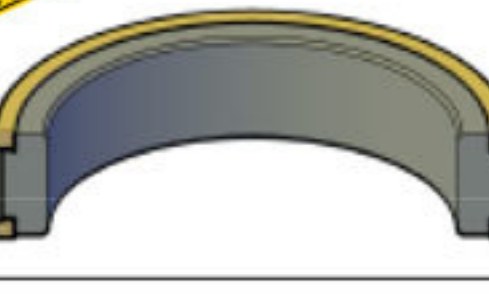



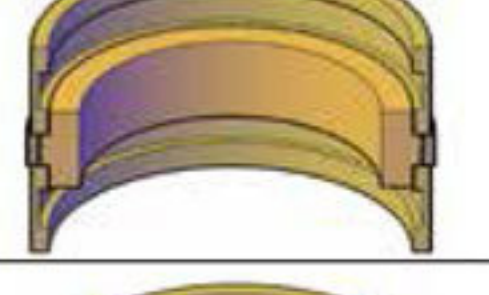

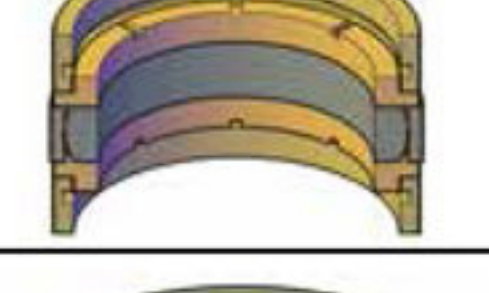



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METRIC SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
PISTON SEAL ASSEMBLIES	MPSU 300 Two Piece Piston Seals			94A Urethane Seal 70/80A Nitrile Energizer	-22° - +212° F	0 - 5,800 PSI	1.5 FT/ SEC	582 - 583
	MKPD Two Piece Piston Seals			97A Urethane Seal 70A Nitrile Expander	-22° - +210° F	0 - 5,800 PSI	1.5 FT/ SEC	584 - 585
	MPS 2000 Step Cut Piston Seals			Nylon Seal with Nitrile Energizer	-22° F - +230° F	0 - 7250 PSI	3 FT/ SEC	586 - 587
	MPSQ Piston Seals			40% Bronze filled PTFE, NBR Energizer, NBR Quad Ring	-40° F - +220° F	0 - 5000 PSI	6 FT/ SEC	588 - 589
	MPSQ5 Four Piece Piston Seals			Bronze filled PTFE NBR Energizers NBR Quad-Ring®	-22° - +212° F	0 - 8,700 PSI	-	590
	MBNP Piston Seal Anti-Extrusion Rings			Nylon Back-Up Ring	-65° - +220° F	0 - 5,000 PSI	-	591
	MCPS Four Piece Piston Seals			PTFE Cap Nylon Back-Up Rubber Expander	-40° - +220° F	0 - 6,000 psi	4.5 FT/ SEC	592 - 594
	CTC Caterpillar® Specific Piston Seals			See Charts	See Charts	See Charts	-	595 - 596
	MPSA Five Piece Piston Seals			Nitrile Piston Seal Polyacetal Anti-Extrusion Ring	-22° - +212° F	0 - 6,000 PSI	1.5 FT/ SEC	597 - 601
	MPSB Three Piece Piston Seals			Fabric Reinforced Piston Seal Polyacetal Anti-Extrusion Ring	-22° - +212° F	0 - 5,000 PSI	1.5 FT/ SEC	602

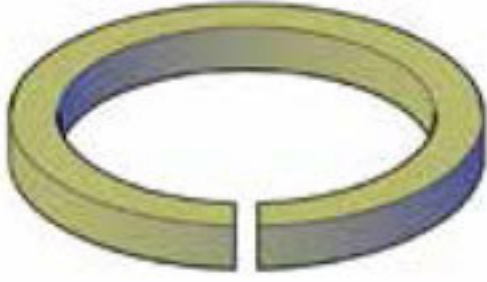









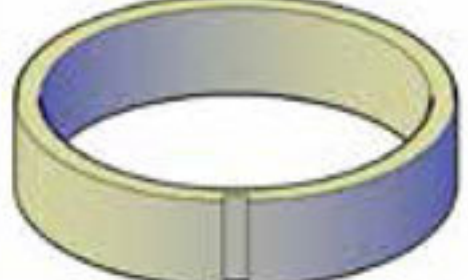



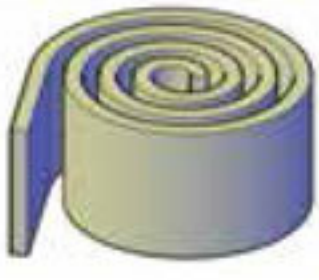

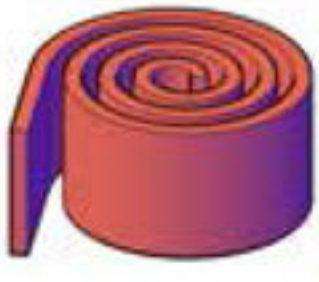

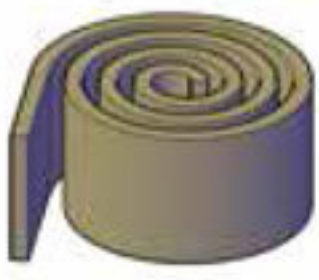

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METRIC SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
PISTON SEAL ASSEMBLIES	MPSA-58 Three Piece Piston Seals			Fabric Reinforced Piston Seal Polyacetal Anti-Extrusion Ring	-22° - +212° F	0 - 5,000 PSI	1.5 FT/ SEC	603 - 604
	MPSA-59 Three Piece Piston Seals			Fabric Reinforced Piston Seal Polyacetal Anti-Extrusion Ring	-22° - +212° F	0 - 5,000 PSI	1.5 FT/ SEC	605 - 606
	MPSA-65 Three Piece Piston Seals			Nitrile Piston Seal Acetal Bearings	-22° - +212° F	0 - 3,000 PSI	1.5 FT/ SEC	607
	MPSA-750 Three Piece Piston Seals			TPE Cap Nitrile Energizer Polyacetal Anti-Extrusion Rings	-22° - +212° F -32° - +140° F (HFA)	0 - 7,500 PSI	1.0 FT/ SEC	608
	MPSA-PDE Five Piece Piston Seals			Nitrile Plastic POM	-22° - +230° F	0 - 8,700 PSI	1.5 FT/ SEC	609
	MTPS Four Piece Piston Seals			TPE Cap Nitrile Energizer Polyacetal Anti-Extrusion Rings	-40° - +230° F -32° - +140° F (HFA)	0 - 10,000 PSI (DYNAMIC) 0 - 17,400 PSI (STATIC)	1 FT/ SEC	610 - 611
	MNCF Five Piece Piston Seals			Rubber / Fabric Piston Seal PTFE Back-Up Rings Nylon Bearings	-22° - +190° F	0 - 5,000 PSI	1.5 FT/ SEC	612
	PS-GKD Hunger® Five Piece Piston Seals			Urethane Plastic POM	-22° - +248° F	0 - 8,700 PSI	3 FT/ SEC	613 - 614
	PS-GD1000K Hunger® Multi-Piece Piston Seals			BRZ-PTFE Urethane Filled POM	-22° - +248° F	-	3 FT/ SEC	615 - 616
PISTON RINGS	MSPR Piston Rings			Cast Iron	-	-	-	617

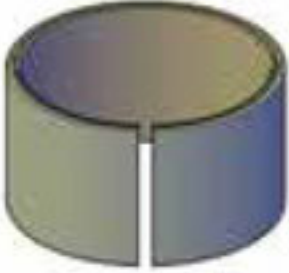





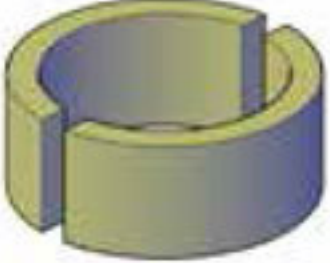

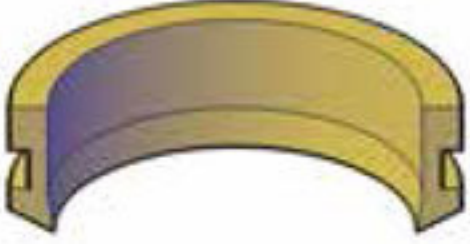











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METRIC SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
PISTON RINGS	MBR Piston Rings			Bronze	-	-	3 FT/ SEC	618
	MWR Wear Rings			Nylon	-40° - +275° F	-	3 FT/ SEC	619 - 621
WEAR RINGS	MWRB Wear Rings			Phenolic	-40° - +250° F	-	3 FT/ SEC	622 - 626
	MWRPEG Wear Rings			Graphite Filled Fabric Reinforced Polyester	-320° - +260° F	-	-	627
	MWRT Wear Rings			Filled PTFE	-100° - +550° F	-	12 FT/ SEC	628 - 629
	MWRZ Wear Rings			Filled PTFE	-100° - +550° F	-	12 FT/ SEC	628 - 629
	MWRA Wear Rings			Acetal	-40° - +230° F	-	3 FT/ SEC	630
	MGF Flexible Guide Bearings			Fabric Reinforced Polyester	-30° - +265° F	-	3 FT/ SEC	631
	MGF Flexible Guide Bearings - Boxed			Fabric Reinforced Polyester	-30° - +265° F	-	3 FT/ SEC	631
	MGB Flexible Guide Bearings			Bronze Filled PTFE	-50° - +390° F	-	12 FT/ SEC	632

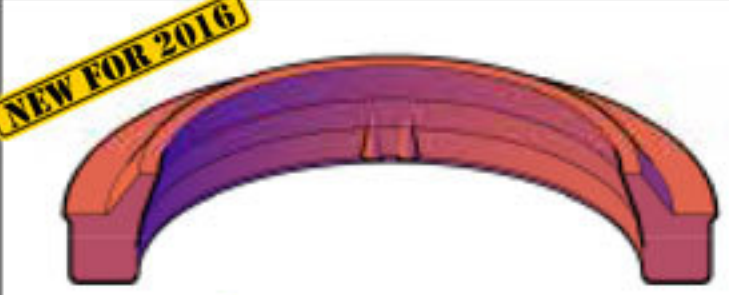

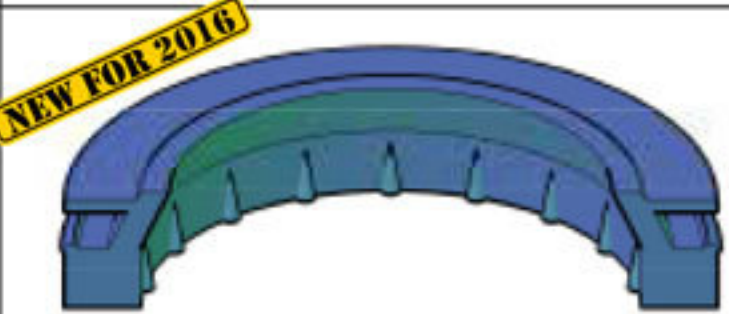



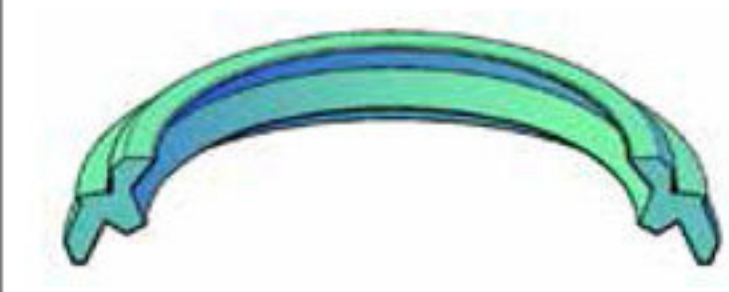





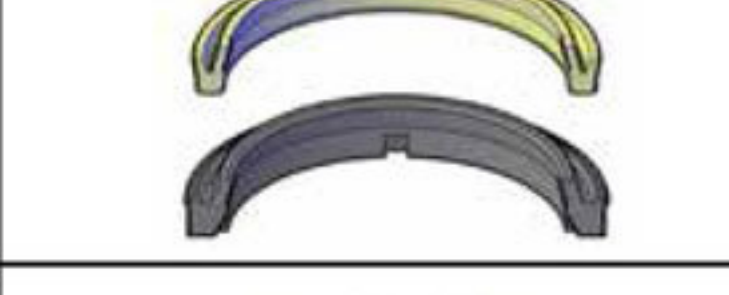



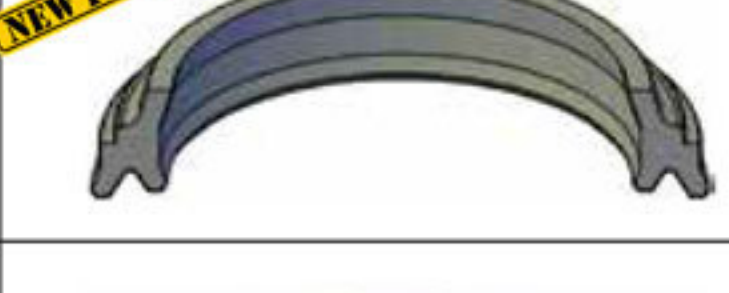



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METRIC SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
WEAR RINGS	MDU Rod Bushings			Bronze Lin- ing PTFE Lead Overlay Steel Back- ing	-325° - +536° F	-	12 FT/ SEC	633 - 634
	MRB Rod Bushings			Nylon	-40° - +250° F	-	3 FT/ SEC	635
	MWRA-L L-Shaped Rod Wear Rings			Acetal	-40° - +230° F	-	3 FT/ SEC	636
	MBB Piston Bushings			Bronze	-	-	3 FT/ SEC	637
	WRFAI Hunger® Wear Rings			POM-PTFE/ Bronze	-62° - +248° F	-	-	638 - 639
	WRFA Hunger® Wear Rings			POM-PTFE/ Bronze	-62° - +248° F	-	12 FT/ SEC	640 - 641
	WRFI Hunger® Wear Rings			POM-PTFE/ Bronze	-62° - +248° F	-	12 FT/ SEC	642 - 643
WIPER RINGS	MSWP Snap-In Wipers			Urethane	-30° - +220° F	-	3 FT/ SEC	644 - 645
	MPRW Wipers			94A Urethane	-34° - +255° F	-	1.6 FT/ SEC	646
	MK51 Rod Wiper / Seal			Urthane	-22° F, +200° F	230 PSI	3 FT/ SEC	647

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METRIC SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
WIPER RINGS	MW38 Snap-In Wipers			55D Polyester	-40° F, +250° F	-	12 FT/ SEC	648 - 650
	MSWE- XLF Snap-In Wipers			93A Urethane 55D Urethane	-50° - +230° F -40° - +212° F	-	12 FT/ SEC	651 - 652
	MSWE Snap-In Wipers			Urethane	-30° - +200° F	-	3 FT/ SEC	653 - 655
	MSWH24 Wipers			Urethane	-31° - +230° F	0 - 725 PSI	1.5 FT/ SEC	656
	MSWH Snap-In Wipers			Urethane	-30° - +200° F	-	3 FT/ SEC	657 - 659
	MWSCK Snap-In Wipers			Nitrile	-49° - +212° F	-	3 FT/ SEC	660 - 661
	MSW Snap-In Wipers			Urethane	-30° - +200° F	-	3 FT/ SEC	662 - 663
	MSWS / MSWSN Snap-In Wipers			Urethane	-30° - +200° F	-	3 FT/ SEC	664
	MSWSHN Snap-In Wipers			90A Nitrile	-22° - +230° F	-	3 FT/ SEC	665 - 666
	MSWN Snap-In Wipers			Nitrile	-22° - +212° F	-	3 FT/ SEC	667 - 668

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METRIC SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
WIPER RINGS	CSWM Snap-In Wipers			Nylon	-40° - +212° F	-	3 FT/ SEC	669
	MDK Snap-In Wipers			Nitrile	-22° - +212° F	-	3 FT/ SEC	670
	MDKP Snap-In Wipers			93A Urethane	-40° - +212° F	-	1.5 FT/ SEC	671
	MCKBI Metal Clad Wipers			Urethane Lip Steel Case	-30° - +200° F	-	3 FT/ SEC	672 - 673
	MCW Metal Clad Wipers			Urethane Lip Steel Case	-30° TO +200° F	-	3 FT/ SEC	674 - 675
	MCWE Snap-In Wipers			Urethane	-40° TO +200° F	-	3 FT/ SEC	676 - 677
	MCWI Metal Clad Wipers			Urethane Lip Steel Case	-30° TO +200° F	-	3 FT/ SEC	678 - 680
	MCWIN Metal Clad Wipers	 NEW FOR 2016		Nitrile Lip Steel Case	-13° TO +212° F	-	3 FT/ SEC	681
	MCWS Metal Clad Wipers			Urethane Lip Steel Case SS Spring	-40° - +200° F	-	3 FT/ SEC	682
	MCKB Metal Clad Wipers			Nitrile Lip Steel Case	-20° - +250° F	-	3 FT/ SEC	683 - 684

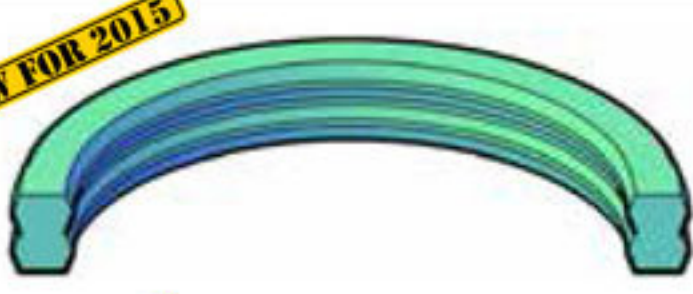

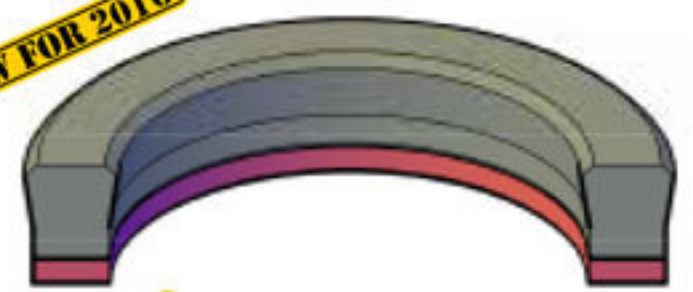
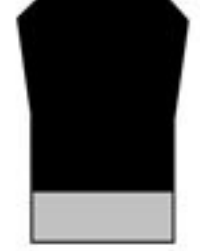
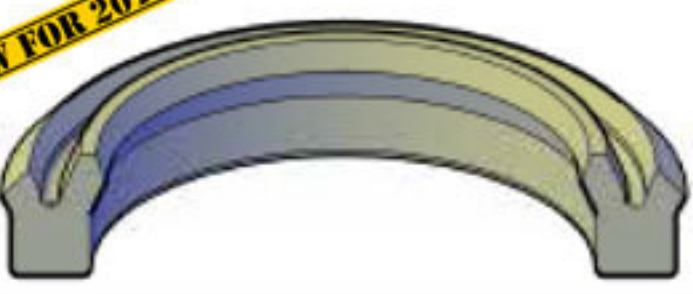

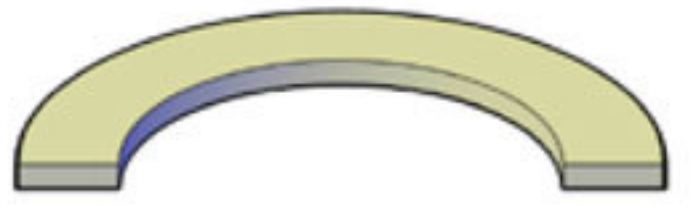








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METRIC SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
WIPER RINGS	MCWN Metal Clad Wipers			Nitrile Lip Steel Case	-30° - +220° F	-	3 FT/ SEC	685 - 687
	MCWHD Metal Clad Wipers			Urethane Lip Steel Case	-65° - +230° F	-	3 FT/ SEC	688
DUST SEALS	MDS Link Pin Dust Seals			Nitrile Lip Steel Case	-40° - +220° F	-	3 FT/ SEC	689
	MDSU Link Pin Dust Seals			Urethane Lip Steel Case	-30° - +200° F	-	3 FT/ SEC	690
	MCWA Metal Clad Dust Seals			Urethane Lip Steel Case	-30° - +200° F	-	3 FT/ SEC	691 - 693
OIL SEALS	MOS Oil Seals			Rubber Lip Steel Case	-40° - +225° F	10 PSI @ 1000 FPM	3 FT/ SEC	694 - 696
	RVA Oil Seals			Nitrile	-40° - +225° F	0 - 5 PSI	1.5 FT/ SEC	697 - 698
	MOS- BABSL BABSLV Shaft Seals			Nitrile/ Fluorocarbon	-40° - +212° F/ -40° - +320° F	-	-	699
O-RINGS	MOR O-Rings			70A or 90A Durometer Nitrile or 75A Durometer Fluorocarbon	-40° - +220° F	-	3 FT/ SEC	702 - 720
	OBVD Static Seals			Nitrile O-Ring Urethane Back-Up	-22° - +212° F	0 - 7250 PSI	3 FT/ SEC	722 - 723

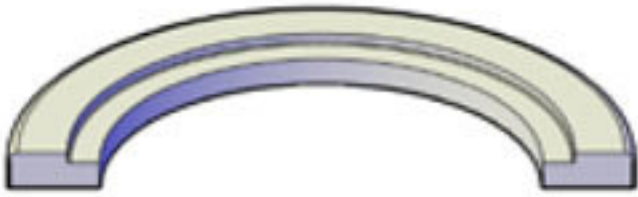

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Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
HEAD SEALS	MHS8 Head Seals			Nitrile O-Ring Urethane Back-Up	-31° - +230° F	0 - 7250 PSI	STATIC	724 - 725
	MHSNB Head Seals			Nitrile O-Ring Urethane Back-Up	-31° - +230° F	0 - 7250 PSI	STATIC	726
	MUHS Head Seals			Polyester Elastomer	-22° - +212° F -40° - +140° F (HFA)	0 - 7250 PSI	STATIC	727
BACK-UP RINGS	MBT Back-Up Rings			PTFE	-100° - +500° F	-	-	728 - 730
	MBU Back-Up Rings			Urethane	-40° - +200° F	-	-	731 - 732
RETAINER RINGS	MSL Spiral Internal Retainer Rings		-	Steel	-	-	-	733
	MNAN Internal Retainer Rings		-	Steel	-	-	-	733
	M300 Internal Retainer Rings		-	Steel	-	-	-	734
	M310 External Retainer Rings		-	Steel	-	-	-	735
	M300- DHT Internal Retainer Rings		-	Steel	-	-	-	736









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METRIC SEALS

Type	Prefix	Product Image	Profile	Material	Temp	Pressure	Speed	Page #
RETAINER RINGS	MSR U-Seal Retainer Rings			Acetal	-22° TO +212° F	-	-	737

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REPAIR ACCESSORIES

Type	Prefix	Product Image	Products / Material	Page #
REPAIR ACCESSORIES	CAP Cap Plugs		Tapered for Miscellaneous Applications, NPT Style Ports, and with Pull Rings. Female threaded for JIC Fittings, O-Ring and Flat Face Fitting Caps, Male Threaded Pipe and cap plugs for flared JIC Fittings.	740 - 744
	BOLTED SPLIT Flange Protectors		3,000 PSI and 5,000 PSI Flanges	744
	Face and Thread Seals		Steel Washer and Rubber Seal for Style 110 and SB Face Seals, and Thread Seals	745
	Wave Springs and Shim		Wave Springs and Carbon Steel Shims	746 - 747
	LN Lock Nuts		Grade C Locknuts and Nylon Insert Locking Nuts	748 - 749
	HH & MHH Self Aligning Bearings		Inch and Metric Carbon Chromium Steel	750 - 751
	SS Set Screws		17 Various sizes	752
	NY-PLUG Nylon Plugs		15 Various sizes	752
	LOCK WIRE Wind-In		7 Various sizes	752
	FV Filter Vent Plugs		6 Various sizes	752











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REPAIR ACCESSORIES

Type	Prefix	Product Image	Products / Material	Page #
REPAIR ACCESSORIES	Steel Plugs and Vents		Steel Plugs (O-Ring Boss), NPT Steel Plug and NPT Air Vent	753
	SHTPP Port Plugs		Zero-Leak Gold Standard Thread	754
	WH Manual Bleeder Valves		1/8 NPT	754
	Bushings		Split Tension	755
	Adhesives		Loctite and Thread Locker Adhesives	756
	SEAL LUBE		O-ring Lubricant	756
	GF Grease Fittings		Grease Fittings in 8 various sizes and Grease Fitting Cap	757
	TAPE		PTFE / Silicone	757
	CP Cotter Pins		Carbon Chromium Steel - 16 Sizes	757
	MCPL Couplings		4 Various sizes - 50H, 110H, 140H and 50A	758

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KITS AND TOOLS

Type	Prefix	Product Image	Products / Material	Page #
KITS AND TOOLS	O-Ring Kits		Inch and Metric Standard, Industrial and Warehouse O-Ring Assortment Kits. Kit include materials such as 70 and 90 Durometer, Fluorocarbon and PTFE. Additional kits include: Boss, Flange, Quad, Face and Hose End & Adapter.	760 - 768
	O-Ring Splice Kits		Inch and Metric Sizes, in 70 Durometer Buna and 75 Durometer Fluorocarbon O-Ring Cords.	769
	Back-Up Kits		Various Back-up Ring Kits include materials such as 90A Durometer Buna-N Rubber, Urethane and PTFE.	770
	Retainer Ring Kits		Eaton, Spiral Wound and Internal/External Retainer Ring Kits. All rings are made in the USA from carbon spring steel.	771
	Assortment Kits		Assortment kits include d-ring, silicone, flange and nitrile seals for use on Caterpillar®, John Deere and Komatsu® equipment. Additional assortment kits include Nitrile and Fluorocarbon O-ring, Cotter Pin, Woodruff Key, Grease Fitting, Set Screw, Cap and Nylon Plug and Seal Tools.	772 - 779
	Installation Tools		Various Rod U-Seal Intallation Tools	779 - 780
	Splicing Tools		Various Splicing Kits and Tools	780
	Cutting and Chopping		Various Cutters and Choppers for Wear Rings and O-ring Cord.	780 - 781
	Removal Tools		Removal tools include Oil Seal Removal and Installation, Assorted O-Ring Pick Sets, Packing Hooks, Chevron Assembly, Woodscrew and Corkscrew Tip, Stop Ring Wrenches and Solid Shaft Picks.	781 - 783
Dismantling Tools		Dismantling Tools include Spanner Wrenches and Parker Gland Wrenches.	784	

KITS AND TOOLS

Type	Prefix	Product Image	Products / Material	Page #
KITS AND TOOLS	Remanufacturing Tools		Remanufacturing Tools include Hone Stone Sets, Portable Hones, Honing Oil, Piston Seal Stretcher and Reforming Tool and the Mini Grinder.	785 - 789
	Leak Detection		Leak Detection includes the Ultimate Leak Detection Kit, along with various Leak Detection Products.	790
	Measuring Tools		Various Measuring tools including Calipers, O-Ring Measuring Cone, Gauge and Chart. Additional tools include Pi Tape, a power punch set and several reference charts for seals, O-rings and Cylinders.	791 - 793
	Hercules Merchandise		Everything you need to be recognized as a Genuine Hercules Repair Parts Provider. Merchandise includes hats, polo shirts, mugs, counter mats, t-shirts and counter stools.	794