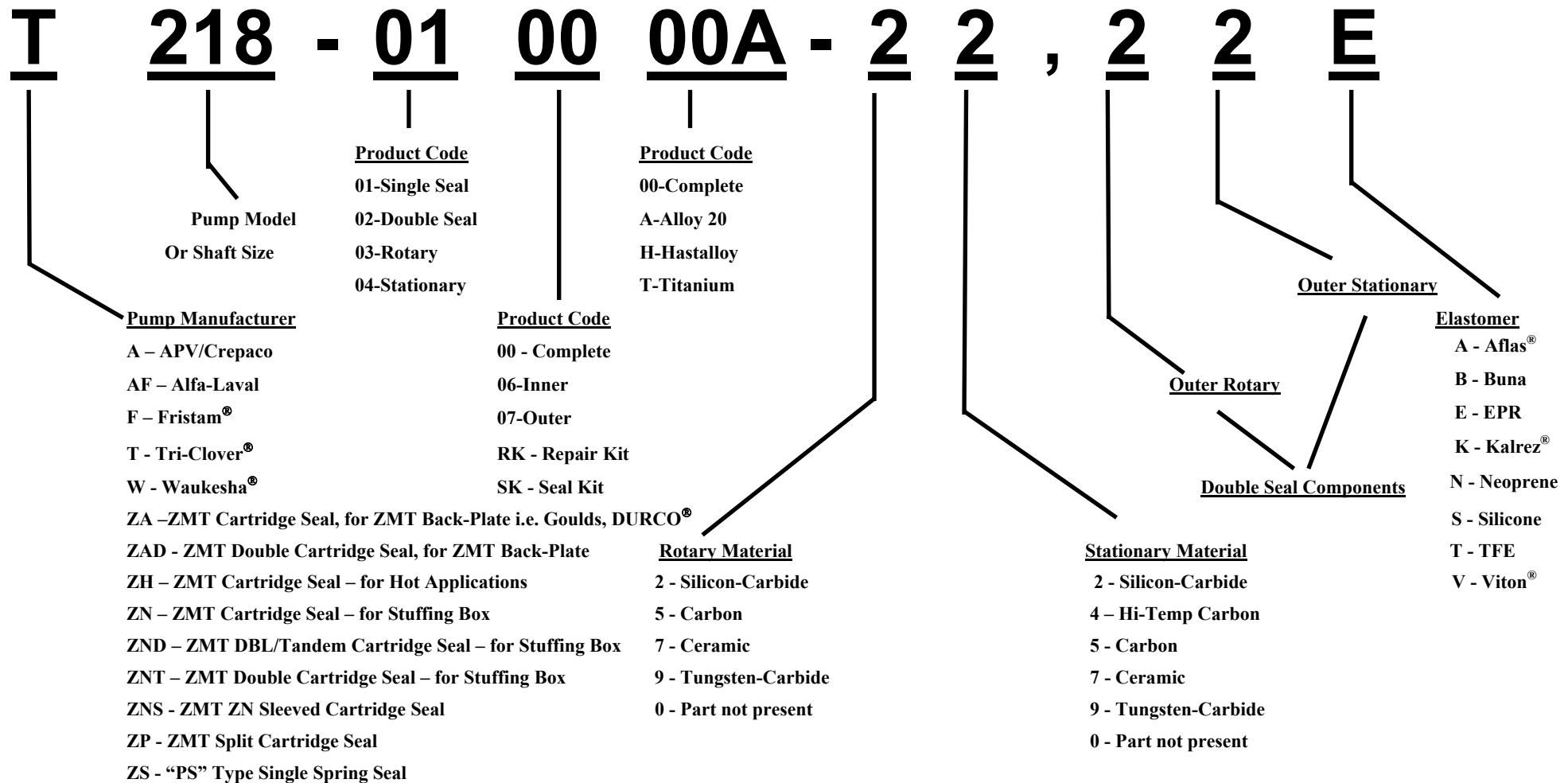


PART NUMBER SYSTEM



NOTE: Viton & Kalrez are Registered Trade Marks of E.I. Dupont De Nemours & Co., Inc.
 Durco is a Registered Trademark of Duriron Co., Inc.
 Fristam is a Registered Trademark of Fristam® Pump, Inc., Waukesha is a registered trademark of SPX Corporation.
 Tri-Clover is a Registered Trademark of Tri-Clover Inc., Aflas is a Registered Trademark of Asahi Glass Co., Ltd.

ZMT Seal Repair Kits

Repair kits have been changed to a new format to improve seal repairs in the field.

Except for Waukesha® seals, all other seals offer the following repair kits.

All kits consists of enough parts to rebuild one seal.

ZMT engineered seals have been designed with replaceable seal faces. The stationary is a solid one piece design for shaft sizes 1" thru 1-5/8"; the stationary is a two piece design from 1-3/4" and up. The rotary collar is a two piece design. This allows the seal to be repaired in the field, yet offer good durability and ruggedness. The seal faces are all o-ring mounted, thus the customer replaces the worn seal faces only and not the entire assembly. The metal components can then be reused.

The "Repair Kit" includes seal faces only.

The "Seal Kit" includes the seal faces and the metal components.

ALL ZMT ENGINEERED SEALS (Fristam® & Tri-Clover®) –

- 1) Repair Kit Includes: Stationary Seal Insert, Rotary Seal Insert, O-Rings, Clips, Set Screws, and Wave Spring.
- 2) Seal Kit Includes: Stationary Seal Insert, Stationary Metal Retainer (where applicable), Rotary Seal Insert, Rotary Metal Collar, O-Rings, Clips, Set Screws, and Wave Spring.

O.E.M. TRI-CLOVER® SEAL KITS ONLY –

Duplicates of the original Tri-Clover® Seal Kits.

- 1) "-1" – The Standby Kit Includes: Case Gasket, Carbon Seal, Seal O-Ring, and an Impeller Pin.
- 2) "-3" – The Seal Standby Kits Includes: Carbon Seal, Seal O-Ring, Spring, and Cup.
- 3) "-4" – Seal Standby Plus Kits Includes: Carbon Seal, Seal O-Ring, Spring, Cup, Case Gasket, and Set Screws.

Alfa-Laval Seal Parts List

All seal parts meet or exceed OEM specifications.

Alfa-Laval LKH Pump Seals LKH Pump Sizes 5 thru 80

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
ALKH1250-010000-52_	Single Seal – Carbon/SiC/EPDM or Viton®	9612-1296-09
ALKH1250-010000-52_	Single Seal – SiC/SiC/EPDM or Viton®	9612-1296-05
ALKH1250-049950-2_	SiC/EPDM or Viton® Stationary Seat	9612-1379-01
ALKH070-010000-52_	Single Seal – Carbon/SiC/EPDM or Viton®	9612-

Please inquire with factory regarding Double Seals.

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Alfa-Laval ALC Pump Seals ALC1 and ALC 2 Pump Sizes

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
ALC040-010000-52_	Single Seal – Carbon/SiC/EPDM or Viton®	3180-1246-82
ALC053-010000-52_	Single Seal – Carbon/SiC/EPDM or Viton®	3180-1246-92

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Viton & Kalrez are Registered Trade Marks of E.I. Dupont De Nemours & Co., Inc.

APV Seal Parts List

All seal parts meet or exceed OEM specifications.

APV W Pump Seals

ZMT PART No.	MATERIALS	DESCRIPTION	PUMP MODELS	OEM PART No.
AW025-010052-52E	CBN/SiC/EPDM	25mm Single Seal- Non-Flushed	20/20, 30/25, 30/50, 40/20, 50/25, 25/75	549P179644
AW025-010052-22E	SiC/SiC/EPDM	25mm Single Seal- Non-Flushed	20/20, 30/25, 30/50, 40/20, 50/25, 25/75	549P179645
AW025-020052-52E	CBN/SiC/EPDM	25mm Double Seal- Flushed	20/20, 30/25, 30/50, 40/20, 50/25, 25/75	549P179656
AW025-020052-22E	SiC/SiC/EPDM	25mm Double Seal- Flushed	20/20, 30/25, 30/50, 40/20, 50/25, 25/75	549P179657
AW035-010052-52E	CBN/SiC/EPDM	35mm Single Seal- Non-Flushed	80/50, 70/30, 50/50, 30/100, 50/100, 60/300, 100/130	549P179650
AW035-010052-22E	SiC/SiC/EPDM	35mm Single Seal- Non-Flushed	80/50, 70/30, 50/50, 30/100, 50/100, 60/300, 100/130	549P179651
AW035-020052-52E	CBN/SiC/EPDM	35mm Double Seal- Flushed	80/50, 70/30, 50/50, 30/100, 50/100, 60/300, 100/130	549P179662
AW035-020052-22E	SiC/SiC/EPDM	35mm Double Seal- Flushed	80/50, 70/30, 50/50, 30/100, 50/100, 60/300, 100/130	549P179663
APV W+ Pump Seals				
AW+025-010052-52E	CBN/SiC/EPDM	25mm Single Seal- Non-Flushed	22/30, 30/80, 35/35, 35/55, 55/35	772461
AW+025-010052-22E	SiC/SiC/EPDM	25mm Single Seal- Non-Flushed	22/30, 30/80, 35/35, 35/55, 55/35	772463
AW+035-010052-52E	CBN/SiC/EPDM	35mm Single Seal- Non-Flushed	25/210, 30/120, 30/180, 55/60, 60/110, 65/350, 70/40, 80/80, 110/130	772466
AW+035-010052-22E	SiC/SiC/EPDM	35mm Single Seal- Non-Flushed	25/210, 30/120, 30/180, 55/60, 60/110, 65/350, 70/40, 80/80, 110/130	772468

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Tri-Clover® Seal Parts List

All seal parts meet or exceed OEM specifications.

Tri-Clover® 114 Pump Seals

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
T114-1	The Standby Kit	C114-1
T114-3	The Seal Standby Kit	C114-3
T114-4	Seal Standby Kit with Case Gasket & Set Screws	
T114E-80-1A	Carbon Seal	114E-80-1A
T114D-80-3P	Cup	114D-80-3P
OR210B	O-Ring, Seal	60C-3-34A-U
T114D-80-4	Spring	114D-80-4
T114D-23P-316L	Drive Collar	SP114D-23P-316L
FSHSS0832X025-SS	Set Screw	SC905A-SS
T114-90A-U	Casing Gasket – Buna	S114-90A-U
T114D-11-316	Back-Plate	114D-11-316

March 1, 2007

Notes :

1. Seals listed with ZMt™, and shown in BOLD, are engineered by ZM Technologies and provide improved performance over the OEM design. These seals will lower your maintenance cost, reduce costly downtime, and address environmental concerns. The combined savings will pay for the seal in 6 months.
2. ZMT Engineered seal not available for the C114 pump.
3. ZMt™ engineered Silicon-Carbide seal components are Silicon-Carbide noses inserted into stainless steel retainers, this increases the durability of the seals.
4. '?' denotes specify O-Ring material. (E=EPR, S=Silicone, V=Viton, B=Buna).
5. When ordering complete seals. O-rings and a wave spring are included.
6. Tri-Clover is a registered trademark of Tri-Clover, Inc.. Viton is a Registered Trademark of Dupont.

Tri-Clover® Seal Parts List

All seal parts meet or exceed OEM specifications.

Tri-Clover® 216 Pump Seals

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
T216Z-010000-25_	ZMt™ Complete Cartridge Seal (SiC/CBN)	
T216Z-010000-22_	ZMt™ Complete Cartridge Seal (SiC/SiC)	
T216Z-01RK00-25_	ZMt™ Cartridge Seal Repair Kit (SiC/CBN)	
T216Z-01SK00-25_	ZMt™ Cartridge Seal Kit (SiC/CBN)	
T216Z-01RK00-22_	ZMt™ Cartridge Seal Repair Kit (SiC/SiC)	
T216Z-01SK00-22_	ZMt™ Cartridge Seal Kit (SiC/SiC)	
T216-1	The Standby Kit	C216-1
T216-3	The Seal Standby Kit	C216-3
T216-4	Seal Standby Kit with Case Gasket & Set Screws	
T216E-80-1A	Carbon Seal	216E-80-1A
T216D-80-3P	Cup	216D-80-3P
OR216B	O-Ring, Seal	01-1165-19-U
T216D-80-4	Spring	216D-80-4
T216D-23P-S	Drive Collar	SP216D-23P-S
FSHSS25020X025-SS	Set Screw	SC1105A-SS
T216-90A-U	Casing Gasket – Buna	S216-90A-U
T216D-11-316	Back-Plate	216D-11-316
T216Z-BPE	ZMt™ Engineered Back-Plate - Exchange	
T216Z-BP	ZMt™ Engineered Back-Plate	

March 1, 2007

Notes :

1. Seals listed with ZMt™, and shown in BOLD, are engineered by ZM Technologies and provide improved performance over the OEM design. These seals will lower your maintenance cost, reduce costly downtime, and address environmental concerns. The combined savings will pay for the seal in 6 months. O-rings and a wave spring are included when ordering a complete ZMT seal.
2. ZMT engineered back-plates are required with ZMT engineered cartridge seals.
3. ZMt™ engineered Silicon-Carbide seal components are Silicon-Carbide noses inserted into stainless steel retainers, this increases the durability of the seals.
4. '?' denotes specify O-Ring material. (E=EPR, S=Silicone, V=Viton, B=Buna).
5. Tri-Clover is a registered trademark of Tri-Clover, Inc.. Viton is a Registered Trademark of Dupont.
- 6.

Tri-Clover[®] Seal Parts List

All seal parts meet or exceed OEM specifications.

Tri-Clover[®] 218/328 Pump Seals

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
T218Z-010000-25_	ZMt™ Complete Cartridge Seal (SiC/CBN)	
T218Z-010000-22_	ZMt™ Complete Cartridge Seal (SiC/SiC)	
T218Z-01RK00-25_	ZMt™ Cartridge Seal Repair Kit (SiC/CBN)	
T218Z-01SK00-25_	ZMt™ Cartridge Seal Kit (SiC/CBN)	
T218Z-01RK00-22_	ZMt™ Cartridge Seal Repair Kit (SiC/SiC)	
T218Z-01SK00-22_	ZMt™ Cartridge Seal Kit (SiC/SiC)	
T328-1	The Standby Repair Kit	C328-1
T328-3	The Seal Standby Kit	C328-3
T328-4	Seal Standby Kit with Case Gasket & Set Screws	
T328E-80-1A	Carbon Seal	328E-80-1A
T328D-80-3P	Cup	328D-80-3P
OR222B	O-Ring, Seal	S328-80-2-U
T328D-80-4	Spring	328D-80-4
T328D-23P-S	Drive Collar	SP328D-23P-S
FSHSS25020X025-SS	Set Screw	SC1105A-SS
T328-90A-U	Casing Gasket – Buna	S2328-90A-U
T328D-11-316	Back-Plate	328D-11-316
T218Z-BPE	ZMt™ Engineered Back-Plate - Exchange	
T218Z-BP	ZMt™ Engineered Back-Plate	

March 1, 2007

Notes :

1. Seals listed with ZMt™, and shown in BOLD, are engineered by ZM Technologies and provide improved performance over the OEM design. These seals will lower your maintenance cost, reduce costly downtime, and address environmental concerns. The combined savings will pay for the seal in 6 months. O-rings and a wave spring are included when ordering a complete ZMT seal.
2. ZMT engineered back-plates are required with ZMT engineered cartridge seals.
3. ZMt™ engineered Silicon-Carbide seal components are Silicon-Carbide noses inserted into stainless steel retainers, this increases the durability of the seals.
4. '?' denotes specify O-Ring material. (E=EPR, S=Silicone, V=Viton, B=Buna).
5. Tri-Clover is a registered trademark of Tri-Clover, Inc.. Viton is a Registered Trademark of Dupont.

Tri-Clover® Seal Parts List

Tri-Clover® 3EH Pump Seal Parts

All seal and pump parts meet or exceed OEM specifications.

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
T3EHZ-010000-22_	ZMt™ Complete Cartridge Seal (SiC/SiC)	
T3EH-141D-26	Carbon Seal	3EH-141D-26
T3EH-141D-27	Spring	3EH-141D-27
T216D-80-3P	Seal Cup	216D-80-3P
OR222E	O-Ring	10CPLO-1-73-2-U
T3EH-040655-7E	Inner Ceramic Seat	
T3EH-040754-7E	Outer Ceramic Seat	
OR139E	O-Ring - Inner Ceramic Seat	
GTT3EH-SEAT	Gasket - Outer Ceramic Seat	

March 1, 2007

Notes :

1. Seals listed with ZMt™, and shown in **BOLD**, are engineered by ZM Technologies and provide improved performance over the OEM design. These seals will lower your maintenance cost, reduce costly downtime, and address environmental concerns. The combined savings will pay for the seal in 6 months. O-rings and a wave spring are included when ordering a complete ZMT seal.
2. ZMt™ engineered Silicon-Carbide seal components are Silicon-Carbide noses inserted into stainless steel retainers, this increases the durability of the seals.
3. Tri-Clover is a registered trademark of Tri-Clover, Inc.. Viton is a Registered Trademark of Dupont.

Tri-Clover® Pump Parts List

Tri-Clover® 3EH Pump Parts

All seal and pump parts meet or exceed OEM specifications.

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
T3EH-PUMP	Complete 3EH Pump	
T3EH-100-05-316	Impeller	3EH-100-05-316
T3EH-141A-01-316	Casing	3EHM-141A-01-316
T3EH-105-07B-316	Shaft	2-1/2EH-105-07B-316
T3EH-141-51-316	Stuffing Box	2-1/2EH-141-51-316
T3EH-105-72A	Bearing Seal Complete	2-1/2EH-105-72A
T3EH-105-72OS	Bearing Oil Seal Only	
T3EH-153A-24-316	Locknut-Impeller	2-1/2EH-153A-24-316
T3EH-141-48-S	Locknut-Stuffing Box	2-1/2EH-141-48-S
T3EH-141-103-S	Cap Seal	2-1/2EH-141-103-S
T3EH-106-46-S	Locknut-Casing	2-1/2EH-106-46-S
T3EH-106-30	Retainer	2-1/2EH-106-30
T3EH-100-20	Case Gasket	3EH-100-20
T3EH-141-79	Stuffing Box Gasket	2-1/2EH-141-79
T3EH-141-78	Packing – EPR	2-1/2EH-141-78
T3EH-143A-139-005	Bearing Shim - .005	2-1/2EH-143A-139-005
T3EH-143A-139-010	Bearing Shim - .010	2-1/2EH-143A-139-010
T3EH-133-005-S	Impeller Shim - .005	SP328-133-005
T3EH-133-010-S	Impeller Shim - .010	SP328-133-010
T3EH-2EJ105-52-S	Pin	2EJ105-52-S
T3EH-143-A21-S	Eye Bolt	2-1/2EH-143-A21-S
T3EH-R60-2-86B-S	Nut-Casing	R60-2-86B-S
T3EH-100-06-316	Key - Impeller	2BEH-100-06-316
T3EH-105-111	Key – Shaft/Coupling	2-1/2EH-105-111

March 1, 2007

Note :

1. Tri-Clover is a registered trademark of Tri-Clover, Inc. Viton is a Registered Trademark of Dupont.

Tri-Clover® Seal Parts List

Tri-Clover® 4EH Pump Seal Parts

All seal and pump parts meet or exceed OEM specifications.

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
T4EHZ-010000-22_	ZMt™ Complete Cartridge Seal (SiC/SiC)	
T4EH-143A-26	Carbon Seal	4EH-143A-26
T4EH-143A-27A	Spring	4EH-143A-27A
T4EH-143-23P-S	Seal Cup	4EH-143-23P-S
T4EH-148A-23-S	Seal Collar	4EH-148A-23-S
T4EH-148A-27A	Seal Spring	4EH-148A-27A
OR224E	O-Ring	10CPLO-1-73-2-U
T4EH-040655-7E	Inner Ceramic Seat	
T4EH-040754-7E	Outer Ceramic Seat	
OR230E	O-Ring - Inner Ceramic Seat	
GTT4EH-SEAT	Gasket - Outer Ceramic Seat	

March 1, 2007

Notes :

1. Seals listed with ZMt™, and shown in **BOLD**, are engineered by ZM Technologies and provide improved performance over the OEM design. These seals will lower your maintenance cost, reduce costly downtime, and address environmental concerns. The combined savings will pay for the seal in 6 months. O-rings and a wave spring are included when ordering a complete ZMT seal.
2. ZMt™ engineered Silicon-Carbide seal components are Silicon-Carbide noses inserted into stainless steel retainers, this increases the durability of the seals.
3. Tri-Clover is a registered trademark of Tri-Clover, Inc.. Viton is a Registered Trademark of Dupont.

Tri-Clover® Pump Parts List

Tri-Clover® 4EH Pump and - Price List

All seal and pump parts meet or exceed OEM specifications.

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
T4EH-PUMP	Complete 4EH Pump	
T4EH-100-05A-316	Impeller	4EH-100-05A-316
T4EH-141A-01-316	Casing	
T4EH-105-07B-316L	Shaft	4EH-105-07B-316L
T4EH-141A-51-316	Stuffing Box	4EH-141-51A-316L
T4EH-105-72A	Bearing Seal Complete	4EH-105-72A
T4EH-105-72OS	Bearing Oil Seal Only	
T4EH-100-56A-316	Locknut-Impeller	4EH-100-56A-316
T4EH-141-48-S	Locknut-Stuffing Box	
T4EH-141-103-S	Cap Seal	
T4EH-106-46-S	Locknut-Casing	4EH-106-46-S
T4EH-105-30	Retainer	4EH-105-30
T4EH-100-20	Case Gasket	4EH-100-20
T4EH-106-79	Stuffing Box Gasket	4EH-106-79
T4EH-141-78	Packing – EPR	
T4EH-143A-139-005	Bearing Shim - .005	4EH-143A-139-005
T4EH-143A-139-010	Bearing Shim - .010	4EH-143A-139-010
T4EH-133-005-S	Impeller Shim - .005	4EH-133-005
T4EH-133-010-S	Impeller Shim - .010	4EH-133-010
T4EH-R60-2-86B-S	Nut-Casing	

March 1, 2007

Note:

1. Tri-Clover is a registered trademark of Tri-Clover, Inc.. Viton is a Registered Trademark of Dupont.

Waukesha® U1 Seal Parts List

All seal parts meet or exceed OEM specifications.

Waukesha® 006, 014, 015, 018, 024 Pump Seals

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
W006Z-010000-22?	ZMt™ Complete Single Seal (SiC/SiC)	
W006-020000-22,25?	Complete Double Seal (SiC/SiC/Cbn)	
W006Z-030500-2	ZMt™ Seat (Silicon-Carbide) - Single Seal	
W006-030500-2	Seat (Silicon-Carbide)	015-014-009
W006-030500-7	Seat (Ceramic)	015-014-002
W006Z-040600-2	ZMt™ Inner Seal (Silicon-Carbide)	
W006-040600-2	Inner Seal (Silicon-Carbide)	015-306-009
W006-040600-5	Inner Seal (Carbon)	015-306-001
W006-040600-7	Inner Seal (Ceramic)	40635
W006-040700-5	Outer Seal (Carbon)	015-206-007
OR6X37B	Inner Seal O-Ring (Buna)	ADO 079 000
OR6X37E	Inner Seal O-Ring (EPDM)	
OR6X37V	Inner Seal O-Ring (Viton)	
OR022B	Shaft O-Ring (Buna)	N70022
OR022E	Shaft O-Ring (EPDM)	E70022
OR022S	Shaft O-Ring (Silicone)	S70022
OR022V	Shaft O-Ring (Viton)	V70022
OR228B-50D	Outer Seal O-Ring (Buna)	N50228
W015-304-000	Wave Spring	015-304-000
W015-098-000	316L ZMT Seal Sleeve	015-098-000

March 1, 2007

Notes :

1. Seals listed with ZMt™, and shown in BOLD, are engineered by ZM Technologies and provide improved performance over the OEM design. These seals will lower your maintenance cost, reduce costly downtime, and address environmental concerns. The combined savings will pay for the seal in 6 months.
2. ZMt™ engineered Silicon-Carbide seal components are Silicon-Carbide noses inserted into stainless steel retainers, this increases the durability of the seals.
3. '?' denotes to specify O-Ring material. (E=EPR, S=Silicone, V=Viton, B=Buna).
4. When ordering complete seals. O-rings and a wave spring are included.
5. Viton is a Registered Trademark of Dupont., Waukesha is a registered trademark of SPX Corporation.

Waukesha® U2 Seal Parts List

All seal parts meet or exceed OEM specifications.

Waukesha® 006, 014, 015, 018 U2 Pump Seals

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
W006U2Z-010000-22?	ZMt™ Complete Single Seal (SiC/SiC)	
W006U2-020000-22,25?	Complete Double Seal (SiC/SiC/Cbn)	
W006U2Z-030500-2	ZMt™ Seat (Silicon-Carbide) - Single Seal	
W006U2-030500-2	Seat (Silicon-Carbide)	101668
W006U2-030500-7	Seat (Ceramic)	101667
W006U2Z-040600-2	ZMt™ Inner Seal (Silicon-Carbide)	
W006U2-040600-2	Inner Seal (Silicon-Carbide)	101653
W006U2-040600-5	Inner Seal (Carbon)	101651
W006U2-040600-7	Inner Seal (Ceramic)	101652
W006U2-040700-5	Outer Seal (Carbon)	101679
OR028B	Inner Seal O-Ring (Buna)	N70028
OR028E	Inner Seal O-Ring (EPDM)	E70028
OR028V	Inner Seal O-Ring (Viton)	V70028
OR024B	Shaft O-Ring (Buna)	N70024
OR024E	Shaft O-Ring (EPDM)	E70024
OR024V	Shaft O-Ring (Viton)	V70024
OR035B	Outer Seal O-Ring (Buna)	N70035
OR035E	Outer Seal O-Ring (EPDM)	E70035
W006U2-040612	Wave Spring, Inner Seal	101683
W006U2-040712	Wave Spring, Outer Seal	101684

March 1, 2007

Notes :

1. Seals listed with ZMt™, and shown in BOLD, are engineered by ZM Technologies and provide improved performance over the OEM design. These seals will lower your maintenance cost, reduce costly downtime, and address environmental concerns. The combined savings will pay for the seal in 6 months.
2. ZMt™ engineered Silicon-Carbide seal components are Silicon-Carbide noses inserted into stainless steel retainers, this increases the durability of the seals.
3. '?' denotes to specify O-Ring material. (E=EPR, S=Silicone, V=Viton, B=Buna).
4. When ordering complete seals. O-rings and a wave spring are included.
5. Viton is a Registered Trademark of Dupont., Waukesha is a registered trademark of SPX Corporation.

Waukesha® U1 Seal Parts List

All seal parts meet or exceed OEM specifications.

Waukesha® 030 Pump Seals

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
W030Z-010000-22?	ZMt™ Complete Single Seal (SiC/SiC)	
W030-020000-22,25?	Complete Double Seal (SiC/SiC/Cbn)	
W030Z-030500-2	ZMt™ Seat (Silicon-Carbide) - Single Seal	
W030-030500-2	Seat (Silicon-Carbide)	030-014-009
W030-030500-7	Seat (Ceramic)	030-014-002
W030Z-040600-2	ZMt™ Inner Seal (Silicon-Carbide)	030-306-009
W030Z-040600-5	ZMt™ Inner Seal (Carbon)	030-306-001
W030Z-040600-7	ZMt™ Inner Seal (Ceramic)	40821
W030-040700-5	Outer Seal (Carbon)	030-206-007
OR327B	Inner Seal O-Ring (Buna)	N70327
OR327E	Inner Seal O-Ring (EPDM)	E70327
OR327S	Inner Seal O-Ring (Silicone)	S70327
OR327V	Inner Seal O-Ring (Viton)	V70327
OR028B	Shaft O-Ring (Buna)	N70028
OR028E	Shaft O-Ring (EPDM)	E70028
OR028S	Shaft O-Ring (Silicone)	S70028
OR028V	Shaft O-Ring (Viton)	V70028
OR335B-50D	Outer Seal O-Ring (Buna)	N50335
W030-304-000	Wave Spring	030-304-000
W030-098-000	316L ZMT Seal Sleeve	030-098-000

March 1, 2007

Notes :

1. Seals listed with ZMt™, and shown in BOLD, are engineered by ZM Technologies and provide improved performance over the OEM design. These seals will lower your maintenance cost, reduce costly downtime, and address environmental concerns. The combined savings will pay for the seal in 6 months.
2. ZMt™ engineered Silicon-Carbide seal components are Silicon-Carbide noses inserted into stainless steel retainers, this increases the durability of the seals.
3. '?' denotes to specify O-Ring material. (E=EPR, S=Silicone, V=Viton, B=Buna).
4. When ordering complete seals. O-rings and a wave spring are included.
5. Viton is a Registered Trademark of Dupont., Waukesha is a registered trademark of SPX Corporation.

Waukesha® U2 Seal Parts List

All seal parts meet or exceed OEM specifications.

Waukesha® 030, 034 U2 Pump Seals

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
W030U2Z-010000-22?	ZMt™ Complete Single Seal (SiC/SiC)	
W030U2-020000-22,25?	Complete Double Seal (SiC/SiC/Cbn)	
W030U2Z-030500-2	ZMt™ Seat (Silicon-Carbide) - Single Seal	
W030U2-030500-2	Seat (Silicon-Carbide)	101671
W030U2-030500-7	Seat (Ceramic)	101670
W030U2Z-040600-2	ZMt™ Inner Seal (Silicon-Carbide)	
W030U2-040600-2	Inner Seal (Silicon-Carbide)	101657
W030U2-040600-5	Inner Seal (Carbon)	101655
W030U2-040600-7	Inner Seal (Ceramic)	101656
W030U2-040700-5	Outer Seal (Carbon)	101680
OR031B	Inner Seal O-Ring (Buna)	N70031
OR031E	Inner Seal O-Ring (EPDM)	E70031
OR031V	Inner Seal O-Ring (Viton)	V70031
OR029B	Shaft O-Ring (Buna)	N70029
OR029E	Shaft O-Ring (EPDM)	E70029
OR029V	Shaft O-Ring (Viton)	V70029
OR041B	Outer Seal O-Ring (Buna)	N70041
OR041E	Outer Seal O-Ring (EPDM)	E70041
W030U2-040612	Wave Spring, Inner Seal	101685
W030U2-040712	Wave Spring, Outer Seal	101686

March 1, 2007

Notes :

1. Seals listed with ZMt™, and shown in BOLD, are engineered by ZM Technologies and provide improved performance over the OEM design. These seals will lower your maintenance cost, reduce costly downtime, and address environmental concerns. The combined savings will pay for the seal in 6 months.
2. ZMt™ engineered Silicon-Carbide seal components are Silicon-Carbide noses inserted into stainless steel retainers, this increases the durability of the seals.
3. '?' denotes to specify O-Ring material. (E=EPR, S=Silicone, V=Viton, B=Buna).
4. When ordering complete seals. O-rings and a wave spring are included.
5. Viton is a Registered Trademark of Dupont, Waukesha is a registered trademark of SPX Corporation.

Waukesha® U1 Seal Parts List

All seal parts meet or exceed OEM specifications.

Waukesha® 060, 130 Pump Seals

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
W130Z-010000-22?	ZMt™ Complete Single Seal (SiC/SiC)	
W130-020000-22,25?	Complete Double Seal (SiC/SiC/Cbn)	
W130Z-030500-2	ZMt™ Seat (Silicon-Carbide) - Single Seal	
W130-030500-2	Seal Seat (Silicon-Carbide)	060-014-009
W130-030500-7	Seat (Ceramic)	060-014-002
W130Z-040600-2	ZMt™ Inner Seal (Silicon-Carbide)	060-306-009
W130Z-040600-5	ZMt™ Inner Seal (Carbon)	060-306-001
W130Z-040600-7	ZMt™ Inner Seal (Ceramic)	40642
W130-040700-5	Outer Seal (Solid Carbon)	060-206-007
OR331B	Inner Seal O-Ring (Buna)	N70331
OR331E	Inner Seal O-Ring (EPDM)	E70331
OR331S	Inner Seal O-Ring (Silicone)	S70331
OR331V	Inner Seal O-Ring (Viton)	V70331
OR131B	Shaft O-Ring (Buna)	N70131
OR131E	Shaft O-Ring (EPDM)	E70131
OR131S	Shaft O-Ring (Silicone)	S70131
OR131V	Shaft O-Ring (Viton)	V70131
OR337B-50D	Outer Seal O-Ring (Buna)	N50338
W060-304-000	Wave Spring	060-304-000
W060-098-000	316L ZMT Seal Sleeve	060-098-000

Prices are subject to change without notice.

March 1, 2007

Notes :

1. Seals listed with ZMt™, and shown in BOLD, are engineered by ZM Technologies and provide improved performance over the OEM design. These seals will lower your maintenance cost, reduce costly downtime, and address environmental concerns. The combined savings will pay for the seal in 6 months.
2. ZMt™ engineered Silicon-Carbide seal components are Silicon-Carbide noses inserted into stainless steel retainers, this increases the durability of the seals.
3. '?' denotes to specify O-Ring material. (E=EPR, S=Silicone, V=Viton, B=Buna).
4. When ordering complete seals. O-rings and a wave spring are included.
5. Viton is a Registered Trademark of Dupont, Waukesha is a registered trademark of SPX Corporation.

Waukesha® U2 Seal Parts List

All seal parts meet or exceed OEM specifications.

Waukesha® 045, 060, 064, 130 U2 Pump Seals

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
W130U2Z-010000-22?	ZMt™ Complete Single Seal (SiC/SiC)	
W130U2-020000-22,25?	Complete Double Seal (SiC/SiC/Cbn)	
W130U2Z-030500-2	ZMt™ Seat (Silicon-Carbide) - Single Seal	
W130U2-030500-2	Seat (Silicon-Carbide)	101674
W130U2-030500-7	Seat (Ceramic)	101673
W130U2Z-040600-2	ZMt™ Inner Seal (Silicon-Carbide)	
W130U2-040600-2	Inner Seal (Silicon-Carbide)	101661
W130U2-040600-5	Inner Seal (Carbon)	101659
W130U2-040600-7	Inner Seal (Ceramic)	101660
W130U2-040700-5	Outer Seal (Carbon)	101681
OR035B	Inner Seal O-Ring (Buna)	N70035
OR035E	Inner Seal O-Ring (EPDM)	E70035
OR035V	Inner Seal O-Ring (Viton)	V70035
OR133B	Shaft O-Ring (Buna)	N70133
OR133E	Shaft O-Ring (EPDM)	E70133
OR133V	Shaft O-Ring (Viton)	V70133
OR043B	Outer Seal O-Ring (Buna)	N70043
OR043E	Outer Seal O-Ring (EPDM)	E70043
W130U2-040612	Wave Spring, Inner Seal	101687
W130U2-040712	Wave Spring, Outer Seal	101688

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Notes :

1. Seals listed with ZMt™, and shown in BOLD, are engineered by ZM Technologies and provide improved performance over the OEM design. These seals will lower your maintenance cost, reduce costly downtime, and address environmental concerns. The combined savings will pay for the seal in 6 months.
2. ZMt™ engineered Silicon-Carbide seal components are Silicon-Carbide noses inserted into stainless steel retainers, this increases the durability of the seals.
3. '?' denotes to specify O-Ring material. (E=EPR, S=Silicone, V=Viton, B=Buna).
4. When ordering complete seals. O-rings and a wave spring are included.
5. Viton is a Registered Trademark of Dupont , Wukesha is a registered trademark of SPX Corporation.

Waukesha® U1 Seal Parts List

All seal parts meet or exceed OEM specifications.

Waukesha® 220 Pump Seals

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
W220Z-010000-22?	ZMt™ Complete Single Seal (SiC/SiC)	
W220-020000-22,25?	Complete Double Seal (SiC/SiC/Cbn)	
W220Z-030500-2	ZMt™ Seat (Silicon-Carbide) - Single Seal	
W220-030500-2	Seal Seat (Silicon-Carbide)	220-014-009
W220-030500-7	Seat (Ceramic)	220-014-002
W220Z-040600-2	ZMt™ Inner Seal (Silicon-Carbide)	220-306-009
W220Z-040600-5	ZMt™ Inner Seal (Carbon)	220-306-001
W220Z-040600-7	ZMt™ Inner Seal (Ceramic)	40830
W220-040700-5	Outer Seal (Solid Carbon)	220-206-007
OR338B	Inner Seal O-Ring (Buna)	N70338
OR338E	Inner Seal O-Ring (EPDM)	E70338
OR338S	Inner Seal O-Ring (Silicone)	S70338
OR338V	Inner Seal O-Ring (Viton)	V70338
OR145B	Shaft O-Ring (Buna)	N70144
OR145E	Shaft O-Ring (EPDM)	E70144
OR145S	Shaft O-Ring (Silicone)	S70144
OR145V	Shaft O-Ring (Viton)	V70144
OR344B-50D	Outer Seal O-Ring (Buna)	N50344
W220-304-000	Wave Spring	220-304-000
W220-098-000	316L ZMT Seal Sleeve	220-098-000

March 1, 2007

Notes :

1. Seals listed with ZMt™, and shown in **BOLD**, are engineered by ZM Technologies and provide improved performance over the OEM design. These seals will lower your maintenance cost, reduce costly downtime, and address environmental concerns. The combined savings will pay for the seal in 6 months.
2. ZMt™ engineered Silicon-Carbide seal components are Silicon-Carbide noses inserted into stainless steel retainers, this increases the durability of the seals.
3. '?' denotes to specify O-Ring material. (E=EPR, S=Silicone, V=Viton, B=Buna).
4. When ordering complete seals. O-rings and a wave spring are included.
5. Viton is a Registered Trademark of Dupont, Waukesha is a registered trademark of SPX Corporation.

Waukesha® U2 Seal Parts List

All seal parts meet or exceed OEM specifications.

Waukesha® 180, 184, 220, 224 U2 Pump Seals

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
W220U2Z-010000-22?	ZMt™ Complete Single Seal (SiC/SiC)	
W220U2-020000-22,25?	Complete Double Seal (SiC/SiC/Cbn)	
W220U2Z-030500-2	ZMt™ Seat (Silicon-Carbide) - Single Seal	
W220U2-030500-2	Seat (Silicon-Carbide)	101677
W220U2-030500-7	Seat (Ceramic)	101676
W220U2Z-040600-2	ZMt™ Inner Seal (Silicon-Carbide)	
W220U2-040600-2	Inner Seal (Silicon-Carbide)	101665
W20U2-040600-5	Inner Seal (Carbon)	101663
W220U2-040600-7	Inner Seal (Ceramic)	101664
W220U2-040700-5	Outer Seal (Carbon)	101682
OR041B	Inner Seal O-Ring (Buna)	N70041
OR041E	Inner Seal O-Ring (EPDM)	E70041
OR041V	Inner Seal O-Ring (Viton)	V70041
OR145B	Shaft O-Ring (Buna)	N70145
OR145E	Shaft O-Ring (EPDM)	E70145
OR145V	Shaft O-Ring (Viton)	V70145
OR046B	Outer Seal O-Ring (Buna)	N70046
OR046E	Outer Seal O-Ring (EPDM)	E70046
W220U2-040612	Wave Spring, Inner Seal	101689
W220U2-040712	Wave Spring, Outer Seal	101690

March 1, 2007

Notes :

1. Seals listed with ZMt™, and shown in BOLD, are engineered by ZM Technologies and provide improved performance over the OEM design. These seals will lower your maintenance cost, reduce costly downtime, and address environmental concerns. The combined savings will pay for the seal in 6 months.
2. ZMt™ engineered Silicon-Carbide seal components are Silicon-Carbide noses inserted into stainless steel retainers, this increases the durability of the seals.
3. '?' denotes to specify O-Ring material. (E=EPR, S=Silicone, V=Viton, B=Buna).
4. When ordering complete seals. O-rings and a wave spring are included.
5. Viton is a Registered Trademark of Dupont, Waukesha is a registered trademark of SPX Corporation.

Waukesha® U1 Seal List

All seal parts meet or exceed OEM specifications.

Waukesha® 320/323 Pump Seals

ZMT PART NUMBER	DESCRIPTION	OEM PART NUMBER
W320Z-010000-22?	ZMt™ Complete Single Cartridge Seal	
W323Z-020000-22,22?	ZMt™ Complete Double Cartridge Seal	
W323-020000-22,25?	Complete Double Seal	
W323-030600-2	Complete Inner Seal (Silicon-Carbide)	40572
W323-030609-2	Inner Seal Nose Only (Silicon-Carbide)	40754
W323-030610-1	Inner Seal Retainer Only	40756
W323-030612	Inner Seal Spring	
OR234E	Inner Seal, Shaft O-Ring (EPDM)	E70234
OR234S	Inner Seal, Shaft O-Ring (Silicone)	S75234
OR238E	Inner Seal, Seal O-Ring (EPDM)	E70238
OR238S	Inner Seal, Seal O-Ring (Silicone)	S75238
W323-030700-5	Complete Outer Seal (Carbon)	323-114-003
W323-030709-5	Outer Seal Nose Only (Carbon)	
W323-030710-1	Outer Seal Retainer	
W323-030712	Outer Seal Spring	
W323F-049952-2	ZMt™ Floating Seat (Silicon-Carbide)	
W323-049952-2	Seal Seat (Silicon-Carbide)	300-014-031
OR5-493E	Inner Cover Molded O-Ring (EPDM)	
OR5-493S	Inner Cover Molded O-Ring (Silicone)	323-117-003
OR5-504E	Outer Cover Molded O-Ring (EPDM)	
OR5-504S	Outer Cover Molded O-Ring (Silicone)	323-117-013

March 1, 2007

Notes :

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2. ZMt™ engineered Silicon-Carbide seal components are Silicon-Carbide noses inserted into stainless steel retainers, this increases the durability of the seals.
3. '?' denotes specify O-Ring material. (E=EPR, S=Silicone, V=Viton, B=Buna).
4. When ordering complete seals. O-rings and a wave spring are included.
5. Viton is a Registered Trademark of Dupont, Waukesha is a registered trademark of SPX Corporation.