Jr. ON A CART

OPTIONS

Designed initially for marine applications, the 50 Series pump has proven itself effective in the consumer/industrial market. The 50 Series can be used for flood prevention, pool/pond pump, spill clean-up, and septic tank pumpout. The 50 Series can pass solids up to 1.5" in diameter, and can run dry continuously without damage. Standard equipment includes .5-HP 115/230-Volt electric motor with 10Ft electrical cord and grounded plug. Whatever you applications demands, **Keco's** 50 Series diaphragm pump can facilitate your needs.



ENGINE OPTIONSPUMP w/ HANDLESCONTROL OPTIONS• Briggs & Stratton 3.5-HP
• Honda 4-HPImage: Control of the start with timerMOTOR OPTIONSImage: Control of the start with timer• .5-HP 115/230-Volt
• .5-HP 115/230 Volt
• .75-HP Exp.ProofImage: Control of the start with timer• Optional coverImage: Control of the start with timer• Optional coverImage: Control of the start with the start with timer• S-HP 115/230 Volt
• .75-HP Exp.Proof• Optional cover• Doptional coverImage: Control of the start with the s



DIAPHRAGM PUMPS

KECO_®

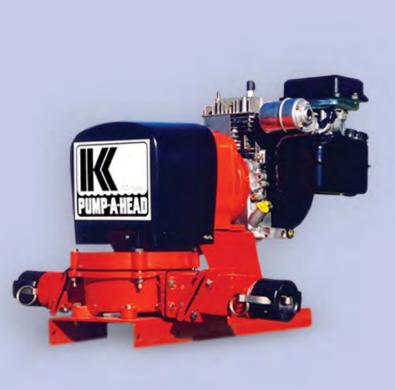


50 SERIES

Keco strives to build the best, longest lasting, and most effective diaphragm pump on the market. **Keco's** 50 Series pump, is a rugged, durable, and multi-purpose diaphragm pump. Also known as the "Junior," this pump is built for a variety of pumping applications. Assembled using all .5" stainless steel nuts and bolts, and treated with a triple layer coating, the Model 50 is built to last! New Encapsulated valves packs provide tight seals and impressive suction with every stroke. If you demand a versatile, all-purpose diaphragm pump, look no further then **Keco's** 50 Series.

Jr. WITH HANDLES

The 50 Series pump can be outfitted with a variety of optional equipment to meet your pumping demands. If electric motors are unfavorable, gas engines can solve the problem. If you need mobility, the 50 Series pump can be mounted onto a rugged steel cart to provide easy movement. Handles can also be installed for easy lifting and portability. **Keco** designed the 50 Series pump to be adaptable to all types of applications. Whether your preference is gas or electric, portable or stationary, **Keco's** 50 Series is the most versatile pump available.





KECO®

DIAPHRAGM PUMPS

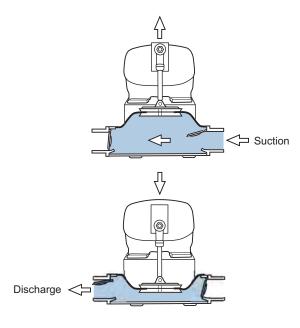
CHOOSE THE PUMP THAT FITS YOUR NEEDS!





Diaphragm Pumps are one of the oldest pumping techniques employed by man. Mechanically similar to a plunger, the diaphragm pump bowl is filled when the diaphragm rises, and cleared when the diaphragm compresses. The reciprocating action causes the suction/discharge valve to fully open and close. Oversized inlet/outlets allow **Keco's** diaphragm pumps to pass 1.5" solids. This simple and effective pump has proven to be a reliable and durable workhorse throughout the world's busiest marinas.

HOW IT WORKS



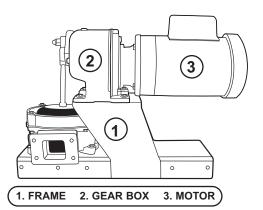
Keco's self-priming diaphragm pumps are based on a time-tested design that

are based on a time-tested design that has been on the market for over 30 years. **Keco** diaphragm pumps are assembled using only 300-grade stainless steel hardware. All exposed surfaces are triple coated using zinc, epoxy and urethane to withstand the most difficult marine environment. Nitrile encapsulated full-opening swing check valves gives the **Keco** diaphragm pump its impressive solids handling ability. The Nitrile valves are completely protected from corrosion and ensure a consistent and reliable seal year for many years.

COMPARE IT TO OTHERS



DIAPHRAGM PUMPS



Keco developed a pump that would stand up to a wide variety of liquids, and be able to handle the most severe environmental conditions imaginable. Although initially targeting marine applications, **Keco's** diaphragm pump has proven itself effective as a versatile multi-purpose pump. **Keco's** diaphragm pump has the ability to pump everything from mud to concrete slurry. The self-priming diaphragm pump is able to run dry without damage. **Keco** offers a variety of pump options to meet your needs. Please allow our staff to assist you in determining the most effective options, which are right for you.

MARINE • bilge pumpout		HEIGHT			.75 HP PU		
 holding tank pumpout 	PIPE	2"	2.5"	3"	2"	2.5"	3"
water evacuation	1	237	603	1900	365	967	2900
	2	225	600	1800	350	934	2900
• oil spill clean-up	3	215	566	1700	336	900	2700
	4	200	533	1600	325	867	2600
• utility pump	5	187	500	1400	313	834	2500
	6	175	466	1400	300	800	2400
PERSONAL	7	167	437	1300	258	767	2300
	8	150	400	1260	275	734	2200
 pool/pond pump 	9	137	366	1100	263	700	2100
	10	125	332	1000	250	667	2000
• well pump	11	112	300	900	238	634	1900
	12	110	266	800	226	600	1800
 flood evacuation 	<u>13</u>	87	233	700	214	567	1700
	14	75	200	600	202	539	1600
 septic tank pumpout 	<u>15</u>	67	166	500	190	500	1500
	HEIGHT 16	50	133	400	178	467	1400
 private dock 	17	37	100	300	166	434	1300
	<u>18</u>	25	66	200	154	400	1200
	19	12	33	100	142	367	1100
	20	-			130	334	1000
 liquid transfer 	21	-			118	300	900 800
	<u>22</u> 23	-	DO NOT		106 94	267 234	700
 abrasive pumping 	23		PERATE	5	82	234	600
	24	-			70	167	500
 sewage collection 	26				58	134	400
	27	- T	HIS RANG		46	100	300
 multi-Purpose utility pump 	28	-			34	67	200
manhole evacuation	29	1			22	34	100
	30	1			*	*	*



phone: (800) 900-PUMP (619) 298-3800. fax: (619) 298-3300

Specifications

Design Considerations

- The pump shall be designed for viscous material handling sanitary waste, slurries and solids up to 1¹/₂" spherical diameter.
- The 8" diaphragm to be of Neoprene** reinforced with 2-ply nylon. Two cast aluminum plates support the diaphragm.
- The motor/engine shall drive an eccentric connected to a stainless steel drive rod by a rod end bearing assembly. The rod end bearing shall have an oil filled sintered steel ball and be equipped with a lubricating fitting.
- Weighted encapsulated inlet and discharge valves are replaceable.
- Valves seat against a raised bezel on a replaceable encapsulated seating plate. Valves are held in place using ½ " stainless steel hardware 316 grade.
- Suction / Discharge flow can run perpendicular with frame, or inline with frame. Customer to specify at time of order. Standard bowl / flow runs perpendicular with frame.
- Explosion proof, Totally Enclosed Fan Cooled 110-220 Single Phase AC 60 Hz motors, 3 ½ HP Briggs and Stratton gasoline or 12-24V DC motors available
- Suction and Discharge fittings available in 1 ¹/₂" or 2" female tread NPT.
- Quick connect coupler fitting on suction and discharge port.
- Pump capable of 18" Hg / 13 PSI with a flow rate to 30 GPM.

Model 40 - Portable

Capacity & Dimensions

MODEL	L"	W "	Η"	GPM
40	46 "	23"	32"	2-25

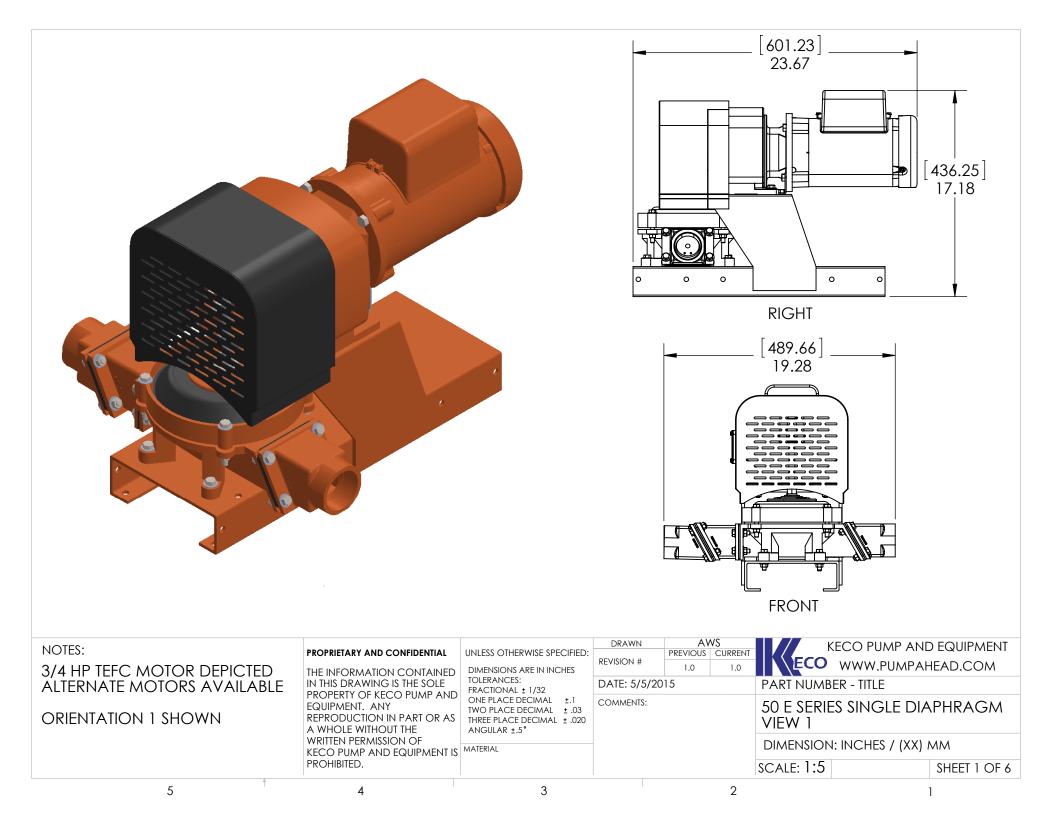
Weight: approximately 150 lbs.

Materials

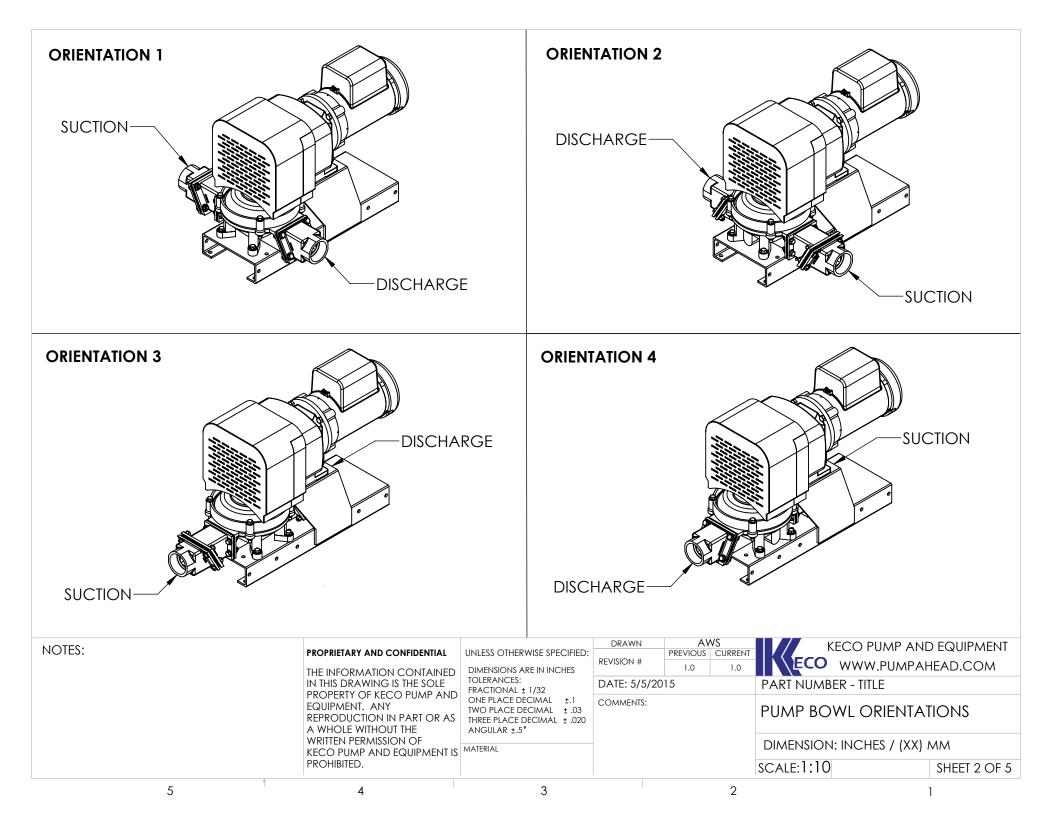
The pump shall include but not be limited to the following components

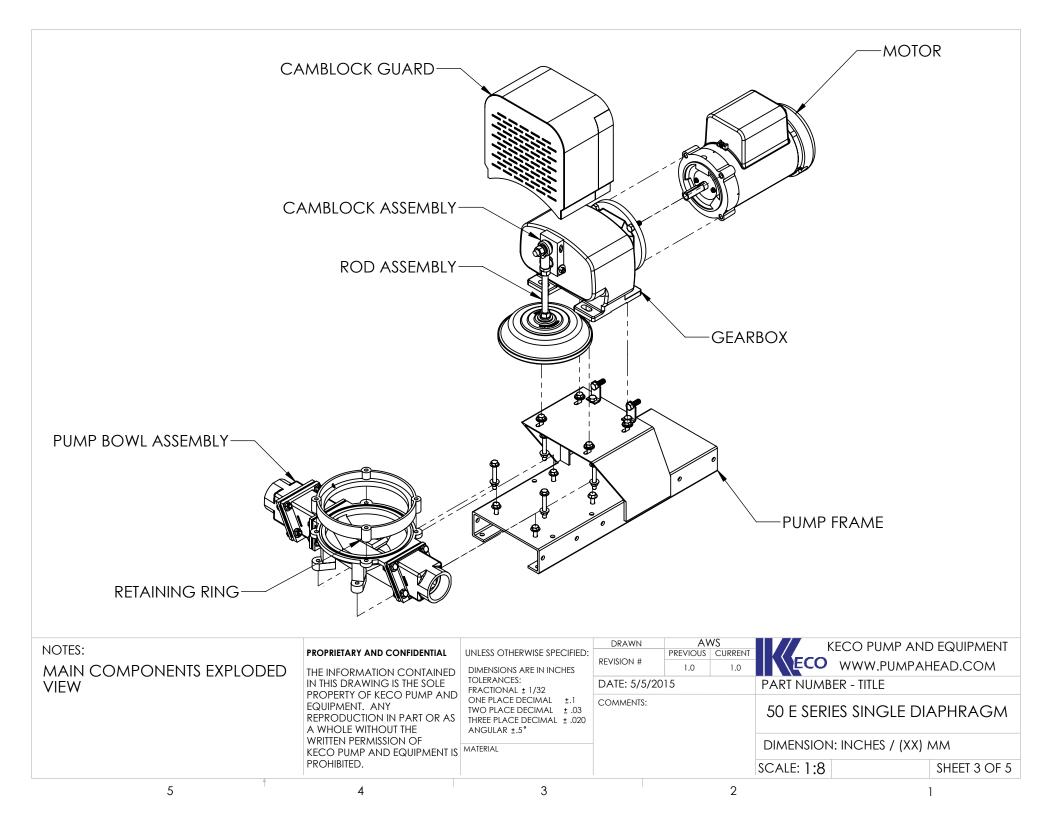
- Aluminum surfaces shall be sandblasted (SP10), zinc, epoxy and urethane coated
- Pump body to be cast aluminum (marine grade) including pump bowl, retaining ring, elbows, flanges and diaphragm reinforcing plates.
- Brass castings are optional.
- Steel structural support frame sandblasted (SP10), zinc, baked epoxy and urethane coated.
- Cart to be pressure washer type with pneumatic wheels. Pump to be bolted to cart using 316-grade stainless steel hardware. Cart to be sandblasted (SP10), zinc, baked epoxy and urethane coated.
- All nuts, bolts, washers and hardware to be 316-grade stainless steel.
- * 50 Hz Motors available.
- ** Nitrile or Hypalon Diaphragm available.

The compatibility and/or application information is presented as a guide only. Other system factors may effect this information. Proper installation and selection of equipment, components, operation and maintenance are not the responsibility of KECO



				57.68] 29.83	436.25] 17.18
NOTES: 3/4 HP TEFC MOTOR DEPICTED	PROPRIETARY AND CONFIDENTIAL	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES:	DRAWN AWS REVISION # PREVIOUS CURRENT 1.0 1.0	ECO www.	MP AND EQUIPMENT PUMPAHEAD.COM
ALTERNATE MOTORS AVAILABLE	IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AND	FRACTIONAL ± 1/32 ONE PLACE DECIMAL ±.1	DATE: 5/5/2015	PART NUMBER - TITL	
	EQUIPMENT. ANY	TWO PLACE DECIMAL ± .03 THREE PLACE DECIMAL ± .020	COMMENTS:	50 E SERIES SINC	GLE DIAPHRAGM
ORIENTATION 3 SHOWN	REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE	ANGULAR ±.5°		1121110	
ORIENTATION 3 SHOWN		ANGULAR ±.5°	_	DIMENSION: INCHE	S / (XX) MM



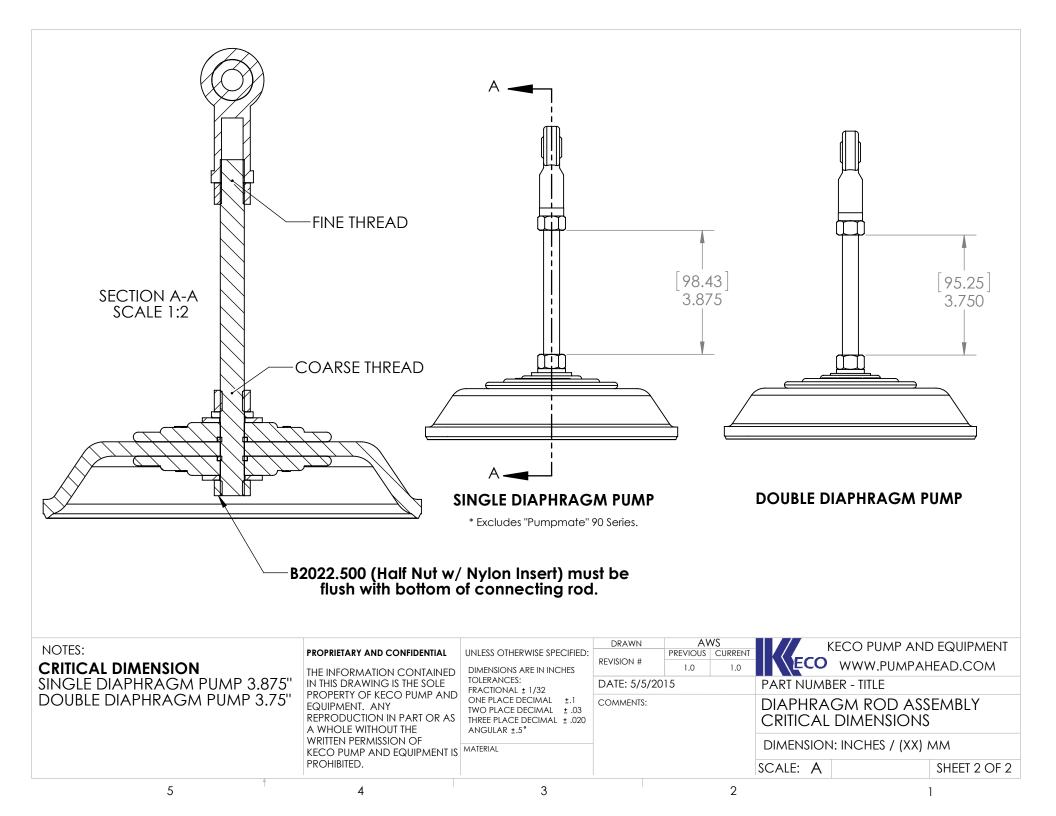


DIAPHRAGM ROD-CAMBLOCK GEARBOX-MOTOR EXPLODED /IEW THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF KECO PUMP AND EQUIPMENT IS NATERIAL							
GEARBOX-MOTOR EXPLODED IN THIS DRAWING IS THE SOLE IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF KECO PUMP AND EQUIPMENT IS MATERIAL TOLERANCES: PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF KECO PUMP AND EQUIPMENT IS MATERIAL MATERIAL	NOTES:	PROPRIETARY AND CONFIDENTIAL	UNLESS OTHERWISE SPECIFIED:		AWS PREVIOUS CURRENT		
GEARBOX-MOTOR EXPLODED IN TID DRAWING IS THE SOLL PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF KECO PUMP AND EQUIPMENT IS FRACTIONAL ± 1/32 ONE PLACE DECIMAL ± 1/32 ONE PLACE DECIMAL ± 0.03 THREE PLACE DECIMAL ± 0.03 TH	DIAPHRAGM ROD-CAMBLOCK						
WRITTEN PERMISSION OF KECO PUMP AND EQUIPMENT IS MATERIAL DIMENSION: INCHES / (XX) MM	VIEW	PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS	FRACTIONAL ± 1/32 ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.03 THREE PLACE DECIMAL ±.020				
RECOTIONIL AND EQUI MENTIS			ANGULAR 1.3				
PROHIBITED. SCALE: 1:5 SHEET 4 OF			MATERIAL	-		DIMENSION: INC	-HES / (XX) /V//VI

					ITEM NO.	. F
	3				1	B
	\bigcirc				2	B C R
					3	B: N
4	<u> </u>				4	B: N
	9				5	B: M
6	4	hoorman			6	K A R P
					7	V R
					8	V D
					9	B: N
	9					
NOTES:	PROPRIETARY AND CONFIDENTIAL	UNLESS OTHERWISE SPECIFIED:	DRAWN REVISION #	AWS PREVIOUS CURR		co
Available Diaphragms* V0022.000 - Neoprene	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE	DIMENSIONS ARE IN INCHES TOLERANCES:	DATE: 5/5/20	1.0 1. 15	PART N	
V0022.000 - Neoprene V0022.HYP - Hypalon V0022.NIT - Nitrile (Buna-N)	PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE	FRACTIONAL ± 1/32 ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.03 THREE PLACE DECIMAL ±.020 ANCILLAP ± 5°	COMMENTS:		DIAPH EXPLC	IRA
	WRITTEN PERMISSION OF KECO PUMP AND EQUIPMENT IS	ANGULAR ±.5° MATERIAL			DIMEN	SION
	PROHIBITED.				SCALE:	1:4

BOM Table	
PART NUMBER - DESCRIPTION	QTY.
B6029.500 - ROD END BEARING	1
B6070.500 - S/S CONNECTING ROD	1
B2021.500 - Hex Nut 0.5-20	1
B2013.500 - Hex Nut 0.5-13	1
B3028.500 - Lock Washer	1
K1023.000 - ALUMINUM REINFORCING PLATE	2
V1040.003 - O RING	2
V0022.XXX - DIAPHRAM*	1
B2022.500 - HEX NUT 0.5-20	1
	PART NUMBER - DESCRIPTION B6029.500 - ROD END BEARING B6070.500 - S/S CONNECTING ROD B2021.500 - Hex Nut 0.5-20 B2013.500 - Hex Nut 0.5-13 B3028.500 - Lock Washer K1023.000 - ALUMINUM REINFORCING PLATE V1040.003 - O RING V0022.XXX - DIAPHRAM* B2022.500 - HEX

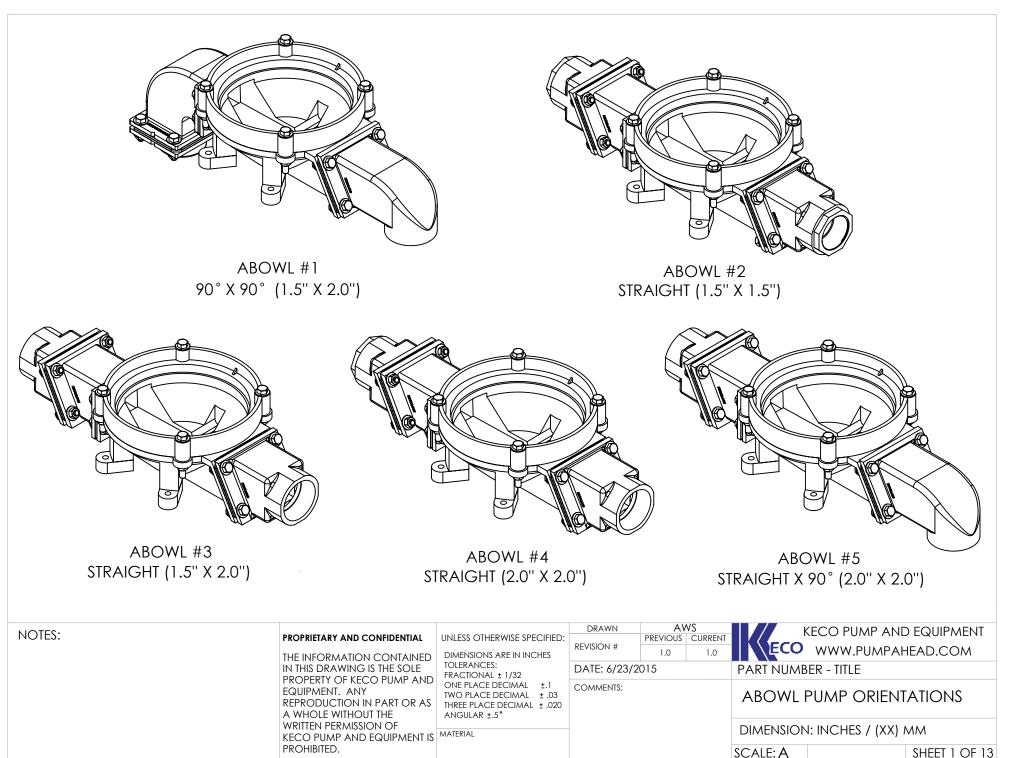
	PROHIBITED.	2			scale: 1:4	SHEET 1 OF 2
V0022.000 - Neoprene V0022.HYP - Hypalon V0022.NIT - Nitrile (Buna-N)	IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF	MATERIAL			DIMENSION: INCHE	S / (XX) MM
		TWO PLACE DECIMAL ±.0	COMMENTS:		DIAPHRAGM ROD ASSEMBLY EXPLODED VIEW	
		TOLERANCES: FRACTIONAL ± 1/32	DATE: 5/5/20	015	PART NUMBER - TITL	E
NOTES: Available Diaphragms*	PROPRIETARY AND CONFIDENTIAL	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	DRAWN REVISION #	AWS PREVIOUS CURRENT 1.0 1.0		JMP AND EQUIPMENT PUMPAHEAD.COM



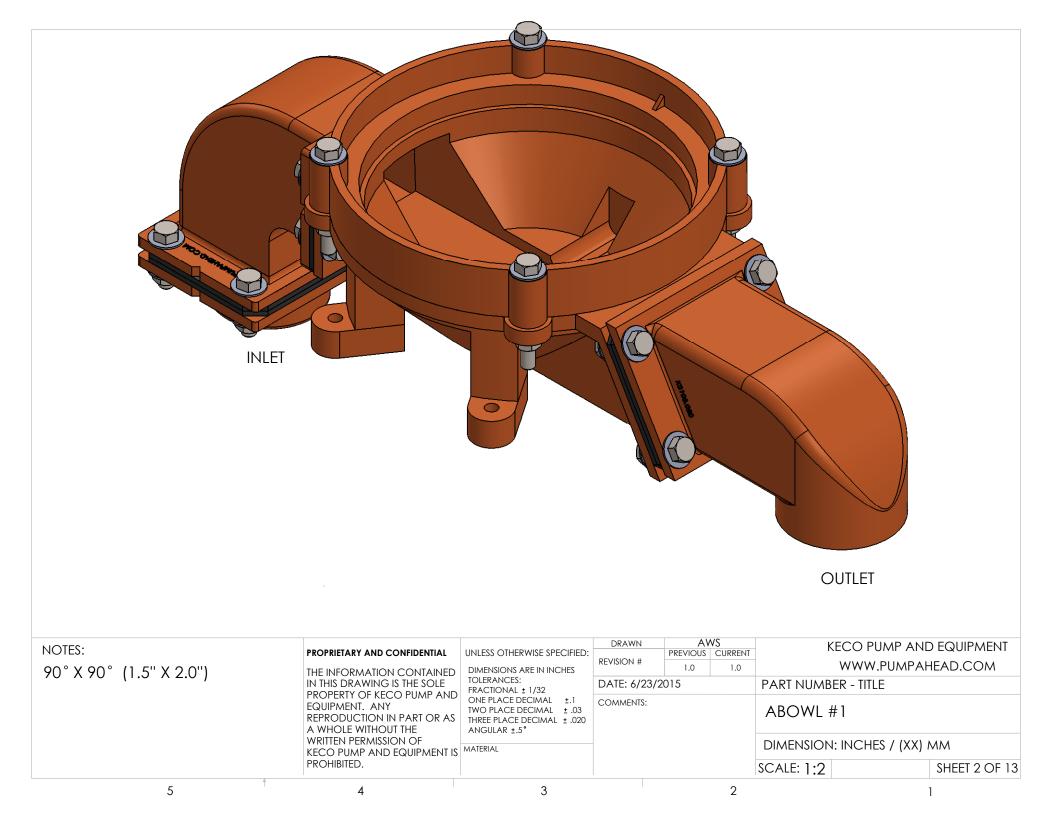
	\frown		TI א	ЕМ 10.	PART
	(3)			1	D3031
6)		2	B6025 Bloc
		(3)		5	B3014 .625" S
(8)		(9)		4	B3028 SS
D.				5	B2020 INSERT
(7)		\sim		6	B2020 INST .2
					D2001
		Ð		0	B4003 TIP .25
	4			9	B1025 20x2.5
2 (2) (3))				
NOTES:	PROPRIETARY AND CONFIDENTIAL	UNLESS OTHERWISE SPECIFIED:	DRAWN		WS CURRENT
CAMBLOCK ASSEMBLY	THE INFORMATION CONTAINED	DIMENSIONS ARE IN INCHES TOLERANCES:	REVISION #	1.0	1.0
SINGLE DIAPHRAGM PUMPS May Not Fit Legacy Gearbox	IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AND	FRACTIONAL ± 1/32 ONE PLACE DECIMAL ±.1	DATE: 5/5/20 COMMENTS:	CI'	
	EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF	TWO PLACE DECIMAL ± .03 THREE PLACE DECIMAL ± .020 ANGULAR ±.5°			
	KECO PUMP AND EQUIPMENT IS PROHIBITED.	MATERIAL			

ITEM NO.	PART NUMBER - DESCRIPTION	QTY.
1	D3031.000 - CAMBLOCK	1
2	B6025.500 - STUD FOR CAM BLOCK	1
3	B3014.025 - FLATWASHER .25" X .625" SS	2
4	B3028.500 - LOCK WASHER .5" SS	2
5	B2020.500 - LOCKNUT W/ NYL INSERT .5-13	1
6	B2020.025 - LOCKNUT W/NYL INST .25-20	1
7	D2001.XXX - CAM BLOCK KEY	1
8	B4003.250 - SET SCREW SHARP TIP .25 X 20 X .5	1
9	B1025.250 - HBOLT 0.2500- 20x2.5x0.75-N	1

NOTES: CAMBLOCK ASSEMBLY	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	DRAWN REVISION #	AWSPREVIOUSCURRENT1.01.0	KECO PUMP AN	
SINGLE DIAPHRAGM PUMPS	IN THIS DRAWING IS THE SOLE	TOLERANCES: FRACTIONAL ± 1/32	DATE: 5/5/20	015	PART NUMBER - TITLE	
May Not Fit Legacy Gearbox	PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE	ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.03 THREE PLACE DECIMAL ±.020 ANGULAR ±.5°	COMMENTS:		D3031.000 CAMBLOC	CK ASSEMBLY
	WRITTEN PERMISSION OF KECO PUMP AND EQUIPMENT IS	MATERIAL	-		DIMENSION: INCHES / (XX)	MM
	PROHIBITED.				scale: 1:2	SHEET 5 OF 5
5	4	3		2		1



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0



		PART NUMBER - DESCRIPTION	QTY
	1	K1021.000 - Pump Bowl	1
	2	V2043.015 - Valve Seating Plate	2
	3	V0041.015 - Valve	2
	4	V3045.015 - Square Center Gasket	1
5 (8)	5	K2190.015 - Suction Elbow	1
	6	K2146.015 - Suction Hose Adapter (Female)	1
	7	K3103.020 - Discharge Elbow	1
	8	K1024.000 - Retaining Ring	1

STAINLESS STEEL FASTENERS NOT DEPICTED	THE INFORMATION CONTAINED	DIMENSIONS ARE IN INCHES	REVISION #	1.0 1.0	ECO WWW.PUM	PAHEAD.COM
(3) P/N B-FLANGE HARDWARE	IN THIS DRAWING IS THE SOLE	TOLERANCES: FRACTIONAL ± 1/32	DATE: 6/23	/2015	PART NUMBER - TITLE	
Stainless Steel Fasteners/Hardware Kit, Includes 4 Bolts, 8 Washers, 4 Nylon Lock Nut	PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE	ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.03 THREE PLACE DECIMAL ±.020 ANGULAR ±.5°	COMMENTS:		ABOWL #1 EXPLOE	DED VIEW
(1) B-RING 2 BOWL Retaining Ring to Bowl Fasteners/Hardware Kit	WRITTEN PERMISSION OF KECO PUMP AND EQUIPMENT IS	MATERIAL			DIMENSION: INCHES / ()	XX) MM
Includes 4 Bolts, 8 Washers, 4 Nylon Lock Nut	PROHIBITED.				SCALE: 1:4	SHEET 3 OF 13
5	4	3		2		1

						OUTLET
	-					OULLI
NOTES:	PROPRIETARY AND CONFIDENTIAL	UNLESS OTHERWISE SPECIFIED:	DRAWN	AWS PREVIOUS CURRENT	KECO PI	JMP AND EQUIPMENT
NOTES: STRAIGHT (1.5'' X 1.5'')	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED	DIMENSIONS ARE IN INCHES	REVISION #	PREVIOUS CURRENT	WWW	JMP AND EQUIPMENT PUMPAHEAD.COM
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AND	DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32	REVISION # DATE: 6/23/2	PREVIOUS CURRENT		JMP AND EQUIPMENT PUMPAHEAD.COM
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS	DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.03 THREE PLACE DECIMAL ±.020	REVISION #	PREVIOUS CURRENT	WWW	JMP AND EQUIPMENT .PUMPAHEAD.COM E
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF	DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.03 THREE PLACE DECIMAL ±.020 ANGULAR ±.5°	REVISION # DATE: 6/23/2	PREVIOUS CURRENT	WWW PART NUMBER - TITL	JMP AND EQUIPMENT .PUMPAHEAD.COM E EMBLY
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE	DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.03 THREE PLACE DECIMAL ±.020 ANGULAR ±.5°	REVISION # DATE: 6/23/2	PREVIOUS CURRENT	WWW PART NUMBER - TITL ABOWL #2 ASS	JMP AND EQUIPMENT .PUMPAHEAD.COM E EMBLY

				TEM NO.	PART NUMBER - DESCRIPTION	QTY.
\sim				1	K1021.000 - Pump Bowl	1
	-(5-1)			2	V2043.015 - Valve Seating Plate	2
	(3-1)			3	V0041.015 - Valve	2
				4	V3045.015 - Square Center Gasket	1
				5	K3034.020 - Suction or Discharge Flange 2.0''	2
0				6	K2032.015 - Suction Flange Adapter	1
(2-1)				/	P2303.815 - PVC BUSHING 2 X 1.5	2
	0			8	K1024.000 - Retaining Ring	1
	(4)—			o D		
			0 0 3-2			7
NOTES:	PROPRIETARY AND CONFIDENTIAL	UNLESS OTHERWISE SPECIFIED:	DRAWN AW REVISION # 10	S CURRENT	KECO PUMP AND EQUI	
TAINLESS STEEL FASTENERS NOT DEPICTI	ED THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE	DIMENSIONS ARE IN INCHES TOLERANCES:	PREVIOUS	S CURRENT 1.0		
TAINLESS STEEL FASTENERS NOT DEPICTI 3) P/N B-FLANGE HARDWARE tainless Steel Fasteners/Hardware Kit, heludes 4 Bolts, 8 Washers, 4 Nylon Loc	ED THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AN FQUIPMENT ANY	DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.03	REVISION # PREVIOUS 1.0	S CURRENT 1.0	KECO PUMP AND EQUI	СОМ
TAINLESS STEEL FASTENERS NOT DEPICTI 3) P/N B-FLANGE HARDWARE tainless Steel Fasteners/Hardware Kit, ncludes 4 Bolts, 8 Washers, 4 Nylon Loc 1) B-RING 2 BOWL Retaining Ring to Bowl Fasteners/Hardw	ED THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AN EQUIPMENT. ANY REPRODUCTION IN PART OR A: A WHOLE WITHOUT THE WRITTEN PERMISSION OF WRITEN PERMISSION OF	DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.03 THREE PLACE DECIMAL ±.020 ANGULAR ±.5°	REVISION # PREVIOUS DATE: 6/23/2015	S CURRENT 1.0	KECO PUMP AND EQUI WWW.PUMPAHEAD.O PART NUMBER - TITLE	СОМ
TAINLESS STEEL FASTENERS NOT DEPICTI 3) P/N B-FLANGE HARDWARE tainless Steel Fasteners/Hardware Kit, heludes 4 Bolts, 8 Washers, 4 Nylon Loc	ED THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AN EQUIPMENT. ANY REPRODUCTION IN PART OR A: A WHOLE WITHOUT THE WRITTEN PERMISSION OF WRITEN PERMISSION OF	DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.03 THREE PLACE DECIMAL ±.020 ANGULAR ±.5°	REVISION # PREVIOUS DATE: 6/23/2015	S CURRENT 1.0	KECO PUMP AND EQUI KECO PUMP AND EQUI WWW.PUMPAHEAD.O PART NUMBER - TITLE ABOWL #2 EXPLODED VIEV DIMENSION: INCHES / (XX) MM	СОМ

					OUTLET
NOTES:	PROPRIETARY AND CONFIDENTIAL	UNLESS OTHERWISE SPECIFIED:	REVISION #	NI	PUMP AND EQUIPMENT
STRAIGHT (1.5'' X 2.0'')	THE INFORMATION CONTAINED	DIMENSIONS ARE IN INCHES TOLERANCES:	1.0 1.0		I.PUMPAHEAD.COM
	IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AND	FRACTIONAL ± 1/32 ONE PLACE DECIMAL ±.1	DATE: 6/23/2015 COMMENTS:	PART NUMBER - TIT	
	EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF	TWO PLACE DECIMAL ± .03 THREE PLACE DECIMAL ± .020 ANGULAR ±.5°		ABOWL #3 ASS	
	KECO PUMP AND EQUIPMENT IS PROHIBITED.	MATERIAL		DIMENSION: INCH SCALE: 1:2	
	I KOHIDHED.				SHEET 6 OF 13

				ITEM NO. 1		UMBER - RIPTION	QTY.
			-	2	V2043.015 - V Seating Plate	Valve	2
	$\left(\begin{array}{c} 2 \\ 1 \end{array} \right)$		_	3	V0041.015 - V	Valve	2
	(3-1)		8	4	V3045.015 - S Center Gask	Square set	1
	10			5	K3034.020 - S Discharge Flo		2
		P		6	K2032.015 - S Flange Adap		1
	0 0			7	P2303.815 - F BUSHING 2 X	1.5	1
(2-1)				8	K1024.000 - R Ring	Retaining	1
6	4						
NOTES: STAINLESS STEEL FASTENERS NOT DEPICTED	PROPRIETARY AND CONFIDENTIAL	UNLESS OTHERWISE SPECIFIED:	REVISION # 1.0	CURRENT		PUMP AND EQU W.PUMPAHEAD.	
(3) P/N B-FLANGE HARDWARE	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE	DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32	DATE: 6/23/2015		PART NUMBER - TI		
Štainless Steel Fasteners/Hardware Kit, Includes 4 Bolts, 8 Washers, 4 Nylon Lock Nut	PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE	ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.03 THREE PLACE DECIMAL ±.020 ANGULAR ±.5°	COMMENTS:		ABOWL #3 EX	PLODED VIEV	N
(1) B-RING 2 BOWL Retaining Ring to Bowl Fasteners/Hardware Kit					dimension: inch	hes / (XX) mm	
Includes 4 Bolts, 8 Washers, 4 Nylon Lock Nut	PROHIBITED.			S	Cale: 1:4	SHEE	T 7 OF 13
5	4	3		2		1	

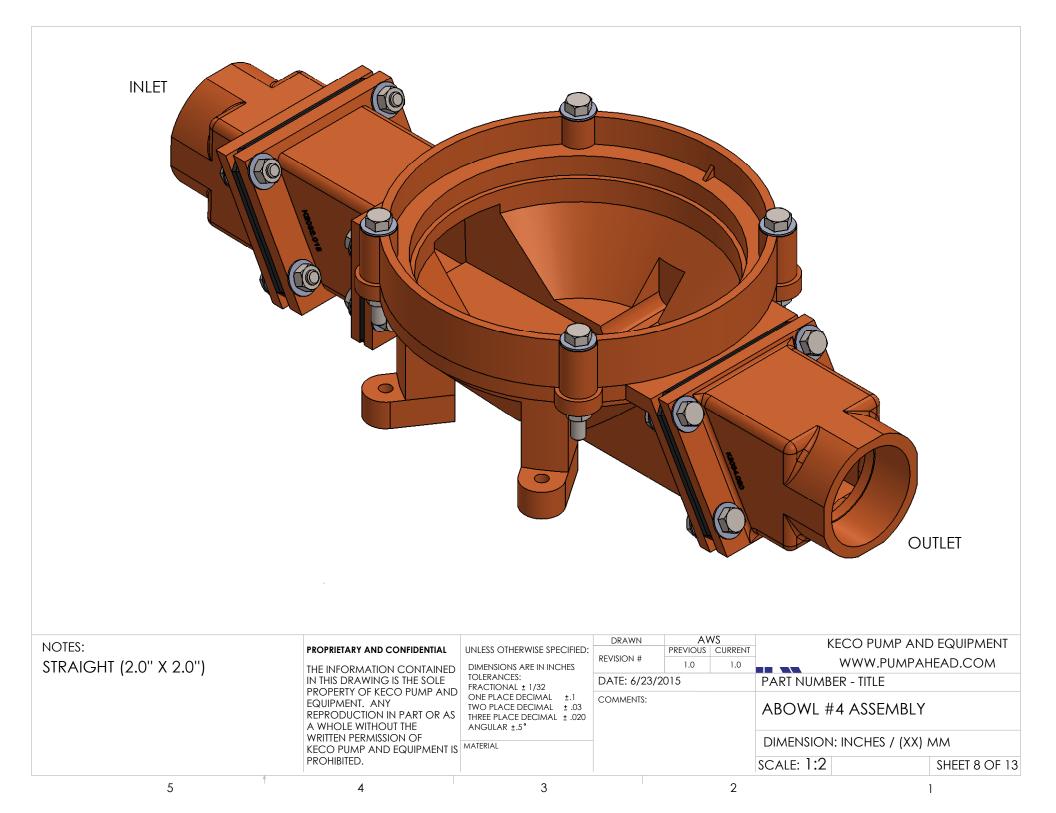
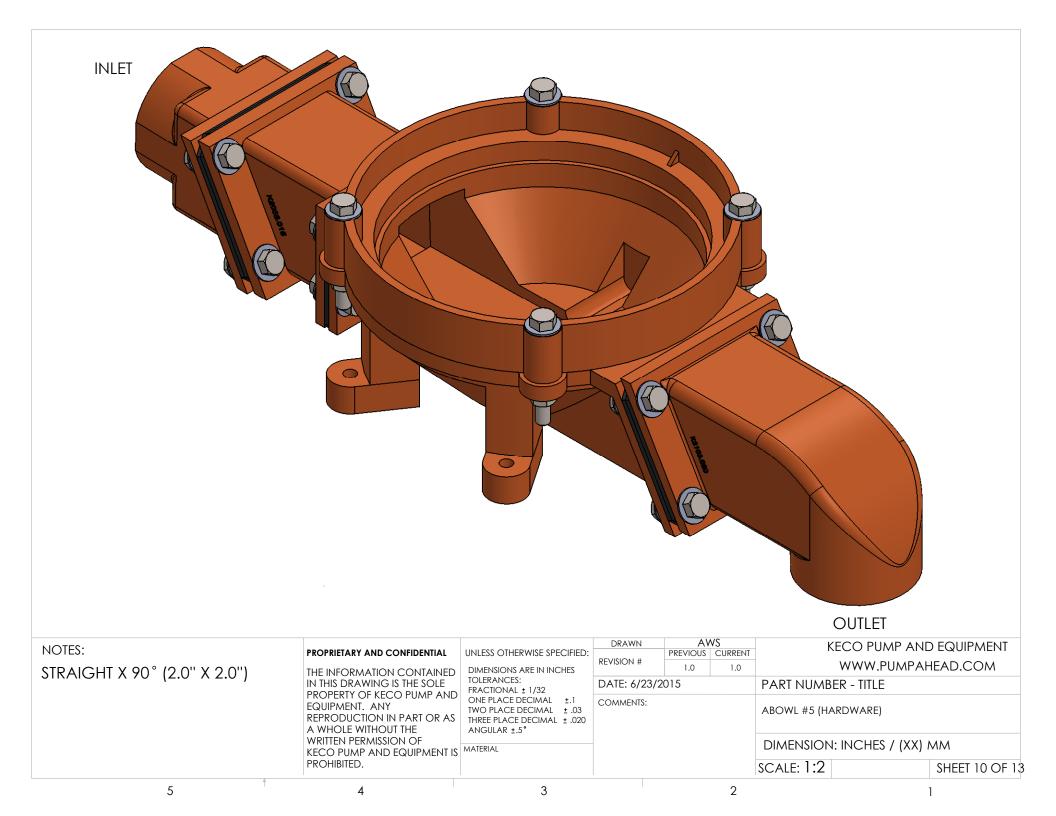


Image: Stell Fasteners Not DEPICTED PARAME FASTENERS NOT DEPI			ITE	M NO.	PART NUMBER - DESCRIPTION	QTY.
2-1 V2043.015 - Valve Seating Plate 2 3 V0041.015 - Valve 2 4 V3045.015 - Square Center Gasket 1 5 K3034.020 - Suction or Discharge 2 6 K2032.015 - Suction Flange Adapter 1 7 K1024.000 - Retaining Ring 1 8 Reserve Retaining Ring 1 9 Reserve Retaining Ring 1 9 Reserve Retaining Ring 1 10 Reserve Retaining Ring 1 10 Reserve Retaining Ring 1 10 Retaining Ring 1				1		1
ACIES: ANDESS STELE FASTENERS NOT DEPICTED IN ESS STELE FASTENERS NOT DEPICTED IN				2-1		2
A V3043.012 - Suddie Center Gasker I S K3034.002 - Suction or Discharge 2 6 K2032.015 - Suction Flange Adapter 1 7 K1024.000 - Retaining Ring 1 0 K1024.000 - Retaining Ring 1 7 K1024.000 - Retaining Ring 1 0 K1024.00				3	V0041.015 - Valve	2
View S Flange 2.0" X 6 K2032.015 - Suction Flange Adapter 1 7 K1024.000 - Retaining Ring 1 8 King Ring 5 8 King Ring 5 8 King Ring 1 8 King Ring 1 9 REAL STREET 1 10 King Ring 1 10 King Ring<	(5-1)			4	V3045.015 - Square Center Gaske	t 1
KOTES: AMERICA 28000 NUMESS STEEL FASTENERS NOT DEPICTED Image: Add content and		<u>(3-1)</u>		5	K3034.020 - Suction or Discharge Flange 2.0''	2
CITES: ANDRE MARCHARD AND ECONTREMINAL NOTES: ANDRE MARCHARD AND ECONTREMINAL NULESS STEEL FASTENEES NOT DEPICTED Improvement and the Deaving is th			A)	6		er 1
CIES: INTESS STEEL FASTENERS NOT DEPICTED PART NUMBERS, 4 Nylon Lock NU BLANC 2 DOWN STEEL BOWN ENSTEPENS/ROTORIS NU BLANC 2 DOWN STEEL BOWN ENSTEPENS/ROTORIS NU BLANC 2 DOWN STEEL PASTENERS NOT DEPICTED STEEL PASTENERS NOT DEPICTED STE		\sim		7	K1024.000 - Retaining Ring	1
) P/N B-FLANGE HARDWARE ainless Steel Fasteners/Hardware Kit, cludes 4 Bolts, 8 Washers, 4 Nylon Lock Nut) B-RING 2 BOWL etaining Ring to Bowl Fasteners/Hardware Kit, Verticities A Bolts, 4 Bolts, 8 Washers, 4 Nylon Lock Nut	NOTES:	PROPRIETARY AND CONFIDENTIAL		DRAWN	AWS PREVIOUS CURRENT	
B-RING 2 BOWL REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF KECO PUMP AND EQUIPMENT IS THREE PLACE DECIMAL ± .020 ANGULAR ±.5° ABOVYL #4 EXFLODED VIEW DIMENSION: INCHES / (XX) MM) P/N B-FLANGE HARDWARE ainless Steel Fasteners/Hardware Kit,	IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AND	TOLERANCES: FRACTIONAL ± 1/32 ONE PLACE DECIMAL ±.1	DATE: 6/23	3/2015 PART NUMBER - TITLE	
) B-RING 2 BOWL staining Ring to Bowl Fasteners/Hardware Kit, KECO PUMP AND EQUIPMENT IS RECO PUMP AND EQUIPMENT IS MATERIAL MATERIAL MATERIAL	icludes 4 Bolts, 8 Washers, 4 Nylon Lock Nut	REPRODUCTION IN PART OR AS	THREE PLACE DECIMAL ± .020		ABOWL #4 EXPLODE	D VIEW
	etainina Rina to Bowl Fasteners/Hardware Kit			_	DIMENSION: INCHES / (X)	() MM
	cludes 4 Bolts, 8 Washers, 4 Nylon Lock Nut	PROHIBITED.			SCALE: 1:4	SHEET 9 OF 13



			ITEM NC	D. PART NUMBER - DESCRIPTION	QTY.
			1	K1021.000 - Pump Bowl	1
			2	V2043.015 - Valve Seating Plate	2
			3	V0041.015 - Valve	2
	(3-1)		4	K3103.020 - Discharge Elbow	1
		<u> </u>	5	V3045.015 - Square Center Gasket	1
		5)	6	K2032.015 - Suction Flange Adapter	1
		7	K3034.020 - Suction or Discharge Flange 2.0''	1	
		\sim	8	K1024.000 - Retaining Ring	1
6 NOTES:	1 PROPRIETARY AND CONFIDENTIAL	UNLESS OTHERWISE SPECIFIED:	DRAWN AW PREVIOUS	S KECO PUMP AND EG	UIPMENT
STAINLESS STEEL FASTENERS NOT DEPICTED	THE INFORMATION CONTAINED	DIMENSIONS ARE IN INCHES	REVISION # 1.0		D.COM
(3) P/N B-FLANGE HARDWARE	IN THIS DRAWING IS THE SOLE	TOLERANCES: FRACTIONAL ± 1/32	DATE: 6/23/2015	PART NUMBER - TITLE	
Stainless Steel Fasteners/Hardware Kit, Includes 4 Bolts, 8 Washers, 4 Nylon Lock Nut	PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE	ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.03 THREE PLACE DECIMAL ±.020 ANGULAR ±.5°	COMMENTS:	ABOWL #5 EXPLODED VI	EW
(1) B-RING 2 BOWL Retaining Ring to Bowl Fasteners/Hardware Kit	WRITTEN PERMISSION OF	MATERIAL	-	DIMENSION: INCHES / (XX) MM	
Includes 4 Bolts, 8 Washers, 4 Nylon Lock Nut	PROHIBITED.			SCALE: 1:4 SH	EET 11 OF 13
5	4	3		2	

Suction Valve Replacement

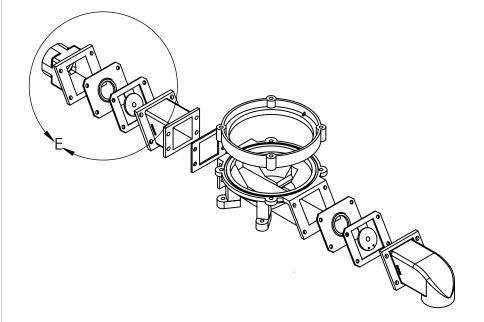
(Single / double diaphragm models)

Important Note: *Do not over tighten valves or gasket!!* Torque Specification is 55"/lbs or 4.5'/lbs

Torque Specification is 55"/lbs or 4.5'/lbs without a torque wrench, this is approximately hand tight plus 3/4 turn for valves and gaskets.

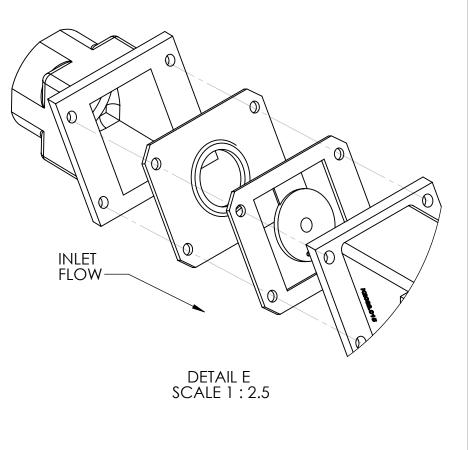
Important Note:

Ensure aluminum pump flanges are smooth and clean before installing new valves. If pitted or corroded, use a steel brush or grinding wheel to smooth and clean flange faces. If severely pitted, castings should be replaced.



4

5



2

NOTES: STAINLESS STEEL FASTENERS NOT DEPICTED (3) P/N B-FLANGE HARDWARE	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KECO PUMP AND EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32	DRAWN AWS REVISION # PREVIOUS CURRENT 1.0 1.0 1.0		KECO PUMP AND EQUIPMENT WWW.PUMPAHEAD.COM PART NUMBER - TITLE			
Stainless Steel Fasteners/Hardware Kit, Includes 4 Bolts, 8 Washers, 4 Nylon Lock Nut		EQUIPMENT. ANY REPRODUCTION IN PART OR AS THREE PLAC	Fasteners/Hardware Kit, s, 8 Washers, 4 Nylon Lock Nut s, 8 Washers, 4 Nylon Lock Nut A WHOLE WITHOUT THE A WHOLE WITHOUT THE		COMMENTS:	COMMENTS:		VE REPLACEMENT
(1) B-RING 2 BOWL Retaining Ring to Bowl Fasteners/Hardware Kit Includes 4 Bolts, 8 Washers, 4 Nylon Lock Nut		MATERIAL			DIMENSION	J: INCHES / (XX) MM SHEET 12 OF 13		

3

Discharge Valve Replacement

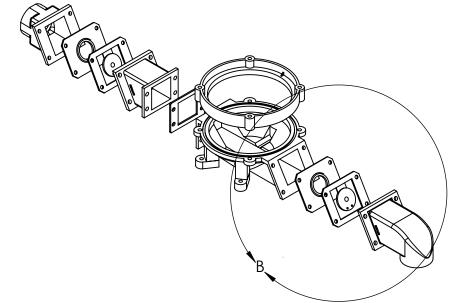
(Single / double diaphragm models)

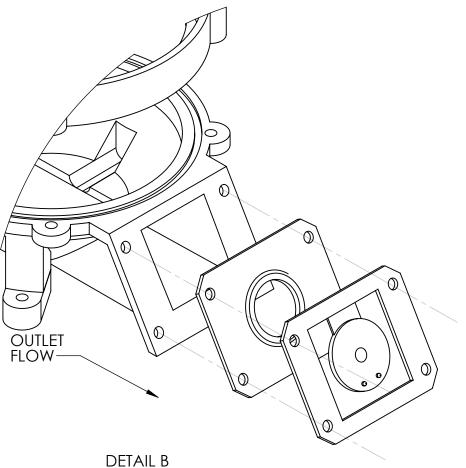
Important Note: *Do not over tighten valves or gasket!!*

Torque Specification is 55"/lbs or 4.5'/lbs without a torque wrench, this is approximately hand tight plus 3/4 turn for valves and gaskets.

Important Note:

Ensure aluminum pump flanges are smooth and clean before installing new valves. If pitted or corroded, use a steel brush or grinding wheel to smooth and clean flange faces. If severely pitted, castings should be replaced.





SCALE 1 : 2.5

NOTES: STAINLESS STEEL FASTENERS NOT DEPICTED	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	DRAWN REVISION #	AWS PREVIOUS CURRENT 1.0 1.0		PUMP AND EQUIPMENT /W.PUMPAHEAD.COM	
(3) P/N B-FLANGE HARDWARE	IN THIS DRAWING IS THE SOLE	TOLERANCES: FRACTIONAL ± 1/32	DATE: 6/23/2	2015	PART NUMBER - 1	TITLE	
Stainless Steel Fasteners/Hardware Kit, Includes 4 Bolts, 8 Washers, 4 Nylon Lock Nut	EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF	OPERTY OF RECOPOMP AND ONE PLACE DECIMAL ±.1 QUIPMENT. ANY TWO PLACE DECIMAL ±.03 PRODUCTION IN PART OR AS THREE PLACE DECIMAL ±.020	COMMENTS:		DISCHARGE VALVE REPLACEMENT		
(1) B-RING 2 BOWL Retaining Ring to Bowl Fasteners/Hardware Kit, Includes 4 Bolts, 8 Washers, 4 Nylon Lock Nut		WRITTEN PERMISSION OF	WRITTEN PERMISSION OF				DIMENSION: INC
Includes 4 Bolts, 8 Washers, 4 Nylon Lock Nut	PROHIBITED.				SCALE: 1:2.5	Sheet 13 of 13	
5	4	3		2]	