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110V 50Hz - 1Ph, TWO STAGE, ELECTRIC DRIVEN, HIGH FLOW PUMP

SERIAL NUMBERS

FROM BR 6179

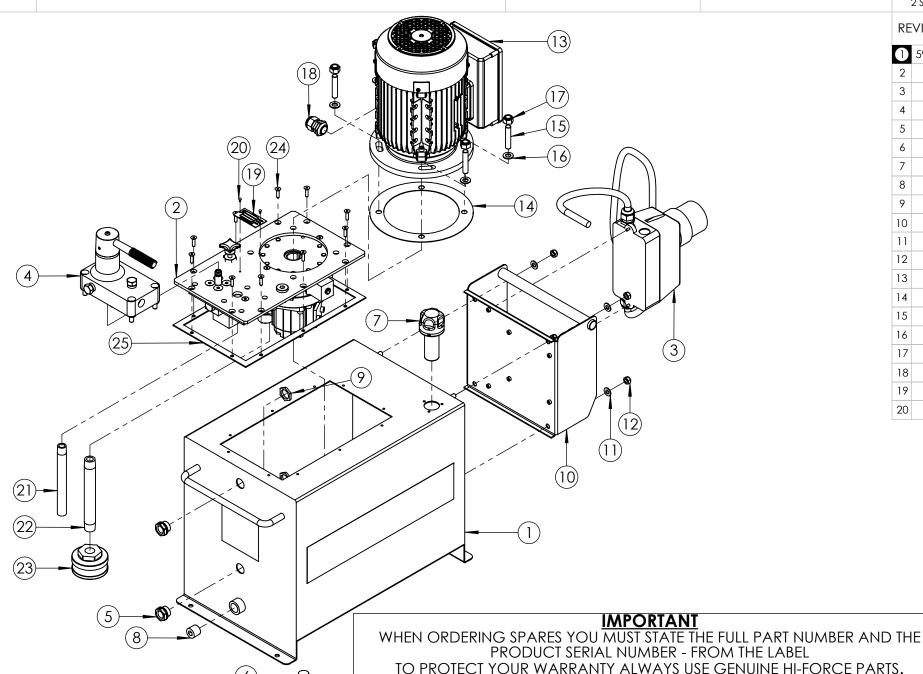
PRODUCT NO.

HEP410241

SHT 1 OF 2 SHTS









110V 50Hz - 1Ph, TWO STAGE, ELECTRIC DRIVEN, HIGH FLOW PUMP

SERIAL NUMBERS
FROM BR 6179

PRODUCT NO. HEP410241

SHT 2 OF 2 SHTS

REVISION

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS
1	TAC040AS004	40 L TANK	1		
2	TYPE300-24	300 SERIES PUMP UNIT	1		
3	EMA110UF002	MOTOR STARTER ASSEMBLY	1		
4	PMV2	2 WAY, MANUALLY OPERATED PUMP MOUNTED DIRECTIONAL CONTROL VALVE	1		
5	BLC021YT010	SIGHT GLASS HGF.13 BLACK OIL LEVEL INDICATOR	2		
6	DCSF00328	DOUBLE SIDED MAGNET	1		
7	FFC028PZ001	FILLER/BREATHER	1		
8	FPC013PC001	1/2" BSP PLUG - HEX SOCKET	1		
9	NUC021-B000	1/2" BSP LOCK NUT	2		
10	TAC000FS002	MODULAR ELECTRIC TRAY	1		
11	WAC008AB000	M8 PLAIN WASHER	4		
12	NUC008KC000	M8 NYLOC NUT	4		
13	EM110-1.1-4LAF	AMME (HIGH STARTING TORQUE), POWER 1.1kw, SPEED 4 POLE	1		
14	SEC001KT003	GASKET	1		✓
15	FAS010MW050	M10 x 50 DOUBLE ENDED THREADED STUD	4		
16	WAC010AB000	M10 ZINC PLATED FLAT WASHER	4		
17	NUC010LC000	M10 NYLOC NUT	4		
18	NUC020LS002	GLAND 6-12MM	1		
19	AAN000UP001	60 x 30 mm UNIVERSAL NAME PLATE	1	X	
20	FASO02HZ001	NO.4 x 3/16 HAMMER DRIVE SCREW	2		
21	TAC000PA001	160 mm LONG SUCTION PIPE	1		
22	FPC013AC002	FEED PIPE	1		
23	FFC045MZ001	FILTER	1		
24	BLC005HF020	M5 x 20 mm HEX SOCKET COUNTERSUNK SCREW	10		
25	15482	tank gasket	1		1
*	SFC065FA002	BLANKING PLATE	1		

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NOTE:

- ALL PARTS ARE AVAILABLE TO BE ORDERED AS SPARE PARTS (UNLESS MARKED WITH \mathbf{x}).
- ONLY PARTS MARKED WITH ✓ARE AVAILABLE AS BOTH SPARE PARTS OR SERVICEABLE PARTS, FROM **HEP-SK1 PUMP SERVICE KIT.** (REFER TO HEP-SK1: PUMP SERVICE KIT EVD FOR FULL PARTS LIST)
- FOR SUB ASSEMBLIES (ITEM NO.S 2, 3 & 4) REFER TO THEIR INDUVIDUAL EVD'S.

IMPORTANT

WHEN ORDERING SPARES YOU MUST STATE THE FULL PART NUMBER AND THE PRODUCT SERIAL NUMBER - FROM THE LABEL TO PROTECT YOUR WARRANTY ALWAYS USE GENUINE HI-FORCE PARTS.

 $^{\uparrow}_{\Box}$

SERIAL NUMBERS

PRODUCT NO. TYPE300-24

SHT 1 OF 2 SHTS



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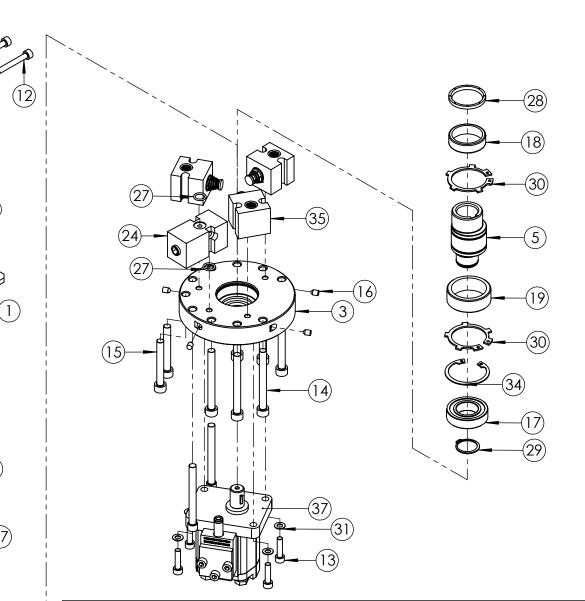
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<u>IMPORTANT</u>

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300 SERIES PUMP UNIT

SERIAL NUMBERS PRODUCT NO.

TYPE300-24

SHT 2 OF 2 SHTS

> 18 19

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS
1	TAC000BA003	COVER PLATE	1		
2	PMC000UM001	UPPER PLATE	1		
3	PMC000LF001	LOWER PLATE	1		
4	15503	CONNECTOR PIPE	1		
5	15505	24mm DRIVE SHAFT	1		
6	17587	TRANSFER BLOCK	1		
7	17588	VALVE PLATE	1		
8	BAC008\$N000	Ø8 mm STEEL BALL GRADE 100	5		
9	BLC005HF016	M5 x 16 mm HEX SOCKET COUNTERSUNK SCREW	2		
10	BLC006JE016	M6 x 16 mm HEX SOCKET COUNTERSUNK SCREW	1		
11	BLC008KF035	M8 x 35 mm HEX SOCKET COUNTERSUNK SCREW	4		
12	BLC006JC045	M6 x 45 mm HEX SOCKET CAP HEAD SCREW	2		
13	BLC006JD025	M6 x 25 mm HEX SOCKET CAP HEAD SCREW	4		
14	BLC008KC080	M8 x 80 mm HEX SOCKET CAP HEAD SCREW	6		
15	BLC008KC060	M8 x 60 mm HEX SOCKET CAP HEAD SCREW	2		
16	BPC006RS001	SEALING PLUG	4		
17	BSC025MC001	LOWER PLATE BEARING	1		
18	BSC035NC001	UPPER PLATE BEARING	1		
19	BSC040ND001	ECCENTRIC BEARING	1		
20	FAS006GJ010	1/4" BSP HEX HEAD BLANKING PLUG	1		
21	FAS010MA010	M10 X 10 CUP POINT GRUB SCREW	5		
22	FFC012MA001	SUCTION FILTER	1		
23	HPRV1	HIGH PRESSURE R/VALVE	1		
24	LPRV1	LOW PRESSURE R/VALVE	1		
25	SEC013BA001	BACK-UP RING - PTFE, SOLID SPLIT	2		√
26	SEC013RA001	O-RING - I.D. 9.25mm, C.S. 1.78mm, NITRILE 90	2		1
27	SEC014RF001	O-RING - I.D. 10.82 mm, C.S. 1.78 mm, NITRILE 90	4		1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS	RE	VISION
28	SEC035WE001	UPPER PLATE OIL SEAL	1			1	5817
29	STC025AA001	EXTERNAL CIRCLIP - 25 x 1,2 mm D1400/025	1			2	5939
30	STC040AA001	EXTERNAL CIRCLIP - 40 x 1.75 mm D2100/0400	2			3	
31	WAC006AF000	M6 ZINC WASHER	4			5	
32	WAC006BC001	M6 SPRING ZINC WASHER (SQUARE SECTION)	2			6	
33	WAC007HD000	1/4" BSP SELF CENTERING BONDED WASHER	1			7	
34	STC047BA001	INTERNAL CIRCLIP - 47 x 1.75 mm D1300/0470	1			9	
35	15494-A	PISTON BLOCK ASSEMBLY	3			10	
36	FPC010PB001	3/8" BSP BLANKING PLUG	1			11	
37	PMA060GZ001	GP60 GEAR PUMP ASSEMBLY	1			12	
						13	

NOTE:

- ALL PARTS ARE AVAILABLE TO BE ORDERED AS SPARE PARTS (UNLESS MARKED WITH X).
- ONLY PARTS MARKED WITH ✓ARE AVAILABLE AS BOTH SPARE PARTS OR SERVICEABLE PARTS FROM **HEP-SK1 PUMP SERVICE KIT.** (REFER TO HEP-SK1: PUMP SERVICE KIT EVD FOR FULL PARTS LIST)
- IF ITEM NO. 24 (LPRV1) IS ORDERED AS A SPARE PART, THIS ALREADY COMES WITH 2 OFF ITEM NO.27 (SEC014RF001). THEREFORE THESE ARE NOT REQUIRED TO BE ORDERED SEPERATELY.
- FOR SUB ASSEMBLIES ITEM NO. 35 (15494-A) & ITEM NO. 37 (PMA060GZ001) REFER TO THEIR INDUVIDUAL EVD's.

IMPORTANT

WHEN ORDERING SPARES YOU MUST STATE THE FULL PART NUMBER AND THE PRODUCT SERIAL NUMBER - FROM THE LABEL TO PROTECT YOUR WARRANTY ALWAYS USE GENUINE HI-FORCE PARTS.



PISTON BLOCK ASSEMBLY

SERIAL NUMBERS

PRODUCT NO.

VERSION 01

15494-A

SHT 1 OF 1 SHTS

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS	RE	VISION
1	15494	PISTON BLOCK	1	X		1	5717
2	15495	PISTON	1	X		2	5866
3	15496	VALVE SEAT	1	X		3	
4	15509	SUCTION/DELIVERY SPRING	2	X		4	
5	15508	PUMP SPRING	1	X		5	
6	BAC005\$N000	Ø5 mm STEEL BALL GRADE 100	2	X		6	
7	SEC014RF001	O-RING - I.D. 10.82 mm, C.S. 1.78 mm, NITRILE 90	2		1	8	
8	SEC010RA001	O-RING - I.D. 6.35 mm, C.S. 1.78 mm, NITRILE 70	1	X		9	
9	STC008SA001	N1305-0031 SELF LOCKING RING	1	X		11	
						12	
						13	

NOTE:

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- ONLY PARTS MARKED WITH **\(\sigma** ARE AVAILABLE AS BOTH SPARE PARTS OR SERVICEABLE PARTS, FROM HEP-SK1 PUMP SERVICE KIT. (REFER TO HEP-SK1: PUMP SERVICE KIT EVD FOR FULL PARTS LIST).

IMPORTANT

WHEN ORDERING SPARES YOU MUST STATE THE FULL PART NUMBER AND THE PRODUCT SERIAL NUMBER - FROM THE LABEL TO PROTECT YOUR WARRANTY ALWAYS USE GENUINE HI-FORCE PARTS.

SERIAL NUMBERS

PRODUCT NO.

PMA060GZ001

SHT 1 OF 3 SHTS

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS	REVISION
1	GP60	GEAR PUMP	1			1 5939
2	PMC000TM001	TRANSFER PLATE	1			2
3	15510C	CONNECTOR TUBE	1			3
4	SEC010RA001	O-RING - I.D. 6.35 mm, C.S. 1.78 mm, NITRILE 70	2		✓	5
5	SEC019RF002	O-RING - I.D. 15.60, C.S. 1.78mm, NITRILE 90	2		✓	6
6	PMC000XM001	SEALING PLATE	1			7
7	BLC006JD030	M6 x 30 mm HEX SOCKET CAP HEAD SCREW	3			9
8	15507	ADAPTOR	1			10
9	PCC002WC001	KEY TO FIT 200/300 PUMPS	1			11
	5.0000000000	M8 X 80 HEX SOCKET				12
10	FAS008SP080	REDUCED CAP HEAD SCREW (FULLY THREADED)	2			13
11	FPA013DC001	GEAR PUMP ELBOW (INC	1	х		14
- ' '	1.7.01020001	WITH GEAR PUMP)				15
						16

NOTE:

- ALL PARTS ARE AVAILABLE TO BE ORDERED AS SPARE PARTS (UNLESS MARKED WITH $\emph{\textbf{x}}$)
- ONLY PARTS MARKED WITH ✓ARE AVAILABLE AS BOTH SPARE PARTS OR SERVICEABLE PARTS, FROM HEP-SK1 PUMP SERVICE KIT. (REFER TO HEP-SK1: PUMP SERVICE KIT EVD FOR FULL PARTS LIST)
- THE ORIENTATION OF ITEM NO. 2 (PMC000TM001) IS DETERMINED BY THE BRAND OF THE GP60 GEAR PUMP SUPPLIED (REFER TO SHEET 2 FOR FURTHER DETAILS)
- ITEM NO. 10 (FAS008SP080) ARE TO REPLACE TWO SCREWS (BLC008KC080)ON THE TYPE300-24, PRIOR TO FITTING PMA060GZ001 (REFER TO SHEET 3 FOR FURTHER DETAILS)
- INDIVIDUAL ITEMS ARE NOT AVAILABLE AS SPARE PARTS FOR HEP PUMPS WITH SERIAL NUMBERS EARLIER THAN **BR9070**. GP60 GEAR PUMP ASSEMBLY (PMA060GZ001) WILL NEED TO BE ORDERED. INDIVIDUAL ITEMS APART FROM ITEM NO. 11 ARE AVAILABLE AS SPARE PARTS FOR HEP PUMPS WITH SERIAL NUMBERS ABOVE **BR9070**

IMPORTANT

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SERIAL NUMBERS

PRODUCT NO.

PMA060GZ001

SHT 2 OF 3 SHTS

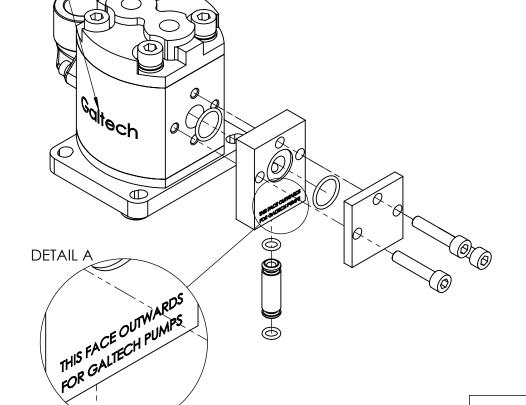
REVISION

1) 5939

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ORIENTATION OF TRANSFER PLATE

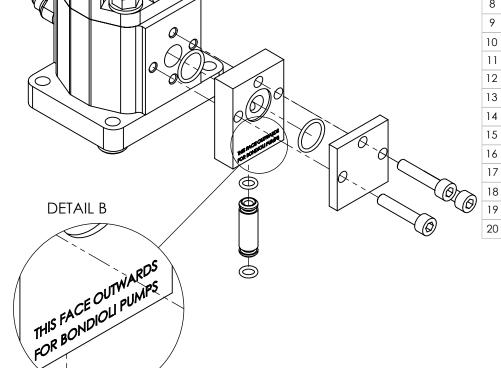
FOR GALTECH GEAR PUMPS, LOOK FOR "GALTECH" USUALLY FOUND ON THE SIDE OF THE BODY



FOR BONDIOLI GEAR PUMPS, LOOK FOR

"BONDIOLI & PAVESI" USUALLY FOUND

ON THE BOTTOM OF THE BODY



IMPORTANT

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PRODUCT NO.

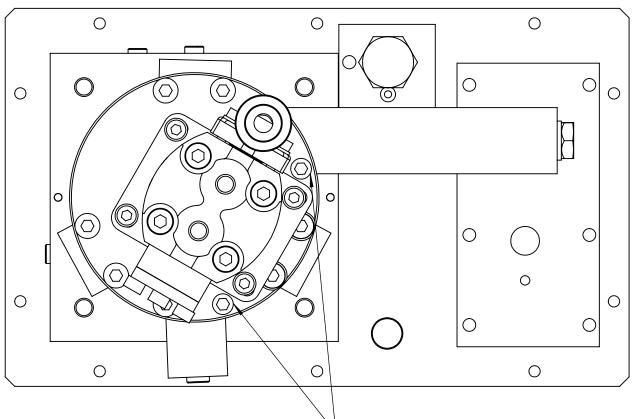
PMA060GZ001

SHT 3 OF 3 SHTS

REVISION

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TYPE300-24: BOTTOM VIEW



REMOVE THE TWO CURRENT SCREWS FROM THESE TWO POSITIONS AND REPLACE WITH ITEM NO. 10 (FAS008SP080)

<u>IMPORTANT</u>

WHEN ORDERING SPARES YOU MUST STATE THE FULL PART NUMBER AND THE PRODUCT SERIAL NUMBER - FROM THE LABEL TO PROTECT YOUR WARRANTY ALWAYS USE GENUINE HI-FORCE PARTS.



MOTOR STARTER ASSEMBLY

SERIAL NUMBERS

PRODUCT NO.

EMA110UF002

VERSION

SHT 1 OF

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01 1 SHTS

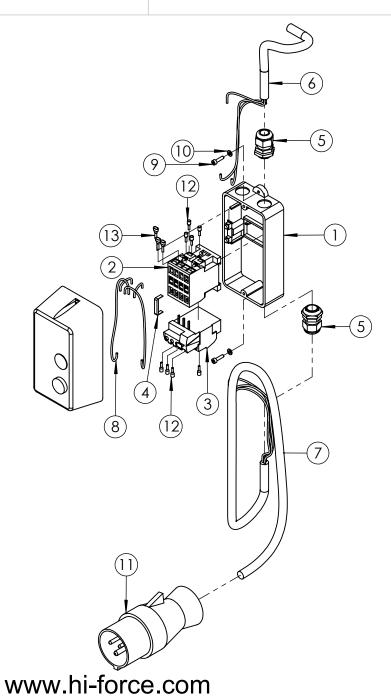
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	REVISION
1	EMC000EF001	ENCLOSURE WITH PUSH BUTTONS P1MT	1		1 5717
2	EMC110KF001	CONTACTOR 110 VOLT	1		2
3	EMC230RF001	OVERLOAD RELAY 13-18 AMPS	1		3
4	EMC110XF001	BRIDGING BAR	1		4
5	NUC020LS002	GLAND 6-12MM	2		5
6	CEC250CC000	3 CORE CABLE 2.5mm^2 H07RN-F3G 2.5	1		6
7	CEC250CC000	3 CORE CABLE 2.5mm^2 H07RN-F3G 2.5	1		7
8	CEC250AC000	SINGLE CORE TR-RATED CABLE 2.5 mm2	1		8
9	BLC004JD016	M4 X 16 HEX SOCKET, CAP HEAD SCREW	2		9
10	WAC004YB000	M4 WASHER ST	2		10
11	MCC110EP001	110V PLUG	1		11
12	CEC250\$X001	BOOTLACE FERRULE (INSULATED) 2.5mm GREY	8		12
13	CEC250SX002	TWIN BOOTLACE FERRULE 2.5 mm ²	3		13

NOTE:

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IMPORTANT

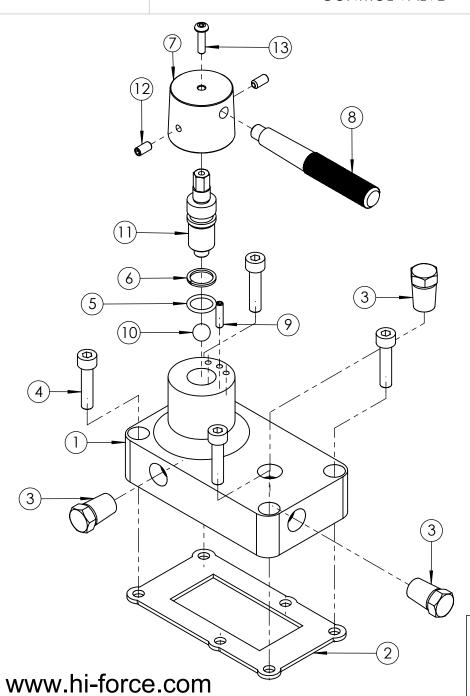
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2 WAY, MANUALLY OPERATED PUMP MOUNTED DIRECTIONAL CONTROL VALVE

SERIAL NUMBERS	PRODUCT NO.	VERSION	
	PMV2	01	



)		PMV2		01		SHT 1 OF 1 SHTS		
	TEM NO.	PART NUMBER	DESCRIPTION		QTY.	SPARE PARTS	RE	VISION
	1	VFC010BF014	VALVE MOUNTING BLOCK		1	X	0	5717
	2	SEC003KT001	VALVE GASKET		1		2	
	3	FPC010PN001	3/8 NPT BLANKING PLUG M8 x 35 mm HEX SOCKET CAP HEAD SCREW		3		3	
	4	BLC008KD035			4		5	
	5	SEC020RA001		15.60 mm, C.S. 2.4 NITRILE 70	1		6	
	6	SEC020BA001	BACI	K UP RING	1		8	
	7	HLC046BM001	HAN	IDLE BASE	1	X	9	
	8	HLC010BM002	PMV2	2 - HANDLE	1	X	10	
	9	FAS005MB001		IEX SOCKET CUP PT CREW	1		11 12	
	10	BAC012SN001	12mm	STEEL BALL	1		13	
	11	VFC010DR002	SI	PINDLE	1	X	14	
	12	FAS006MB012		IEX SOCKET CUP PT	2		15	
ļ			SCREW			16		
	13	BLC005HH020	M5 x 20 mm HEX SOCKET BUTTON HEAD SCREW	1		17		
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NOTE:					19			

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NOTE:

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IMPORTANT

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PUMP SERVICE KIT

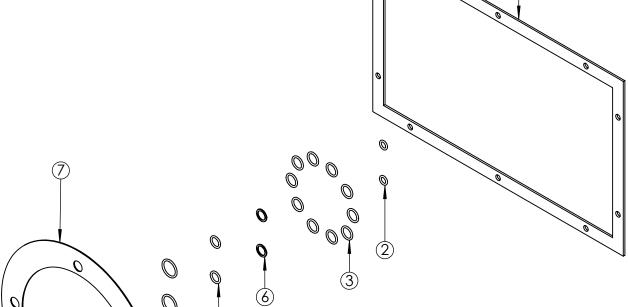
SERIAL NUMBERS	

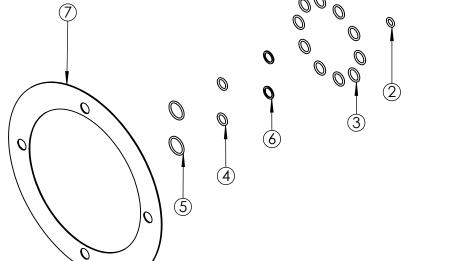
PRODUCT NO. HEP-SK1

SHT 1 OF 1 SHTS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	REVISION
1	15482	TANK GASKET	1	1 5717
2	SEC010RA001	O-RING - I.D. 6.35 mm, C.S. 1.78 mm, NITRILE 70	2	2 5939
				3

1 15482 TANK GASKET 1 1 2 SEC010RA001 O-RING - I.D. 6.35 mm, C.S. 1.78 mm, NITRILE 70 2 3 3 SEC014RF001 O-RING - I.D. 10.82 mm, C.S. 1.78 mm, NITRILE 90 10 4 4 SEC013RA001 O-RING - I.D. 9.25mm, C.S. 1.78mm, NITRILE 90 2 6 5 SEC019RF002 O-RING - I.D. 15.60, C.S. 1.78mm, NITRILE 90 2 7 6 SEC013BA001 BACK-UP RING - PTFE, SOLID SPLIT 2 9 7 SEC001KT003 GASKET 1 10					1
2 SEC010RA001 C.S. 1.78 mm, NITRILE 70 2 3 3 SEC014RF001 O-RING - I.D. 10.82 mm, C.S. 1.78 mm, NITRILE 90 10 4 4 SEC013RA001 O-RING - I.D. 9.25mm, C.S. 2 6 5 SEC019RF002 O-RING - I.D. 15.60, C.S. 1.78mm, NITRILE 90 2 6 6 SEC013BA001 BACK-UP RING - PTFE, SOLID SPLIT 2 9	1	15482	tank gasket	1	1
3 SEC014RF001 C.S. 1.78 mm, NITRILE 90 10 4 SEC013RA001 O-RING - I.D. 9.25mm, C.S. 1.78mm, NITRILE 90 2 5 SEC019RF002 O-RING - I.D. 15.60, C.S. 1.78mm, NITRILE 90 2 6 SEC013BA001 BACK-UP RING - PTFE, SOLID SPLIT 2	2	SEC010RA001	O-RING - I.D. 6.35 mm, C.S. 1.78 mm, NITRILE 70	2	3
4 SEC013RA001 O-RING - I.D. 9.25mm, C.S. 2 6 5 SEC019RF002 O-RING - I.D. 15.60, C.S. 1.78mm, NITRILE 90 2 8 6 SEC013BA001 BACK-UP RING - PTFE, SOLID SPLIT 2 9	3	SEC014RF001		10	- 1
5 SEC019RF002 1.78mm, NITRILE 90 2 6 SEC013BA001 BACK-UP RING - PTFE, SOLID SPLIT 2 9	4	SEC013RA001	O-RING - I.D. 9.25mm, C.S. 1.78mm, NITRILE 90	2	
6 SECUTSBAUUT SOLID SPLIT 2 7	5	SEC019RF002		2	
7 SEC001KT003 GASKET 1 10	6	SEC013BA001		2	9
	7	SEC001KT003	GASKET	1	10





IMPORTANT

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