Hi-Force HYDRAULIC TOOLS

AIR DRIVEN, TWO STAGE PUMP

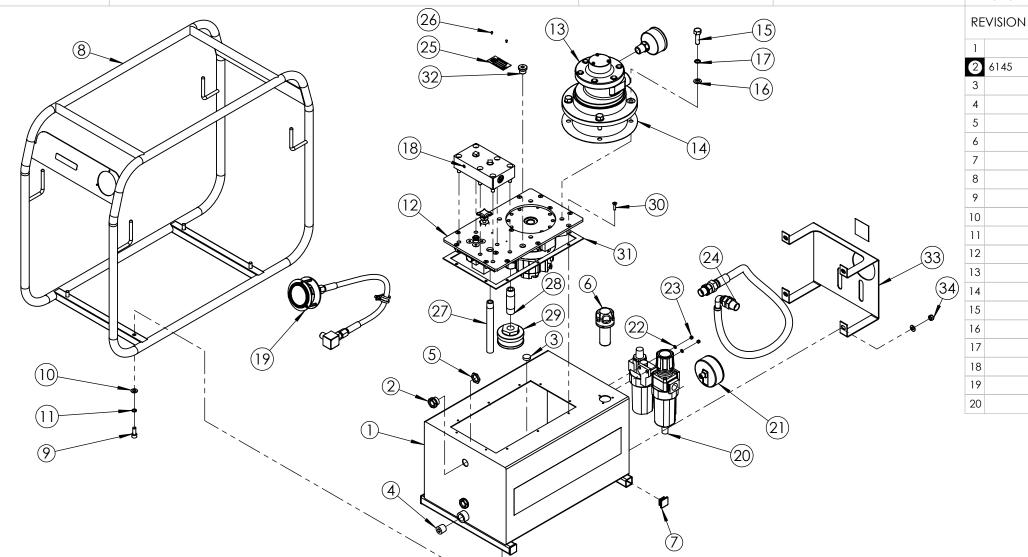
SERIAL NUMBERS

FROM BP7151

PRODUCT NO.

HAP21012

SHT 1 OF 2 SHTS



IMPORTANT

		AIR DRIVEN, TWO STAGE PUMP				
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS	ITEM NO.
1	TAC025AS006	25L TANK	1	17410	17410	23
2	BLC021YT010	SIGHT GLASS HGF.13 BLACK OIL LEVEL INDICATOR	2			24
3	DCSF00328	DOUBLE SIDED MAGNET	1			25
4	FPC013PC001	1/2" BSP PLUG - HEX SOCKET	1			26
5	NUC021-B000	1/2" BSP LOCK NUT	2			27
6	FFC028PZ001	FILLER/BREATHER	1			28
7	BPC025KP001	1" SQ RIBBED INSERT BLACK	4			29
8	TAC025CS003	25L ROLL FRAME	1			30
9	BLC008KD020	M8 x 20 mm HEX SOCKET CAP HEAD SCREW	4			31
10	WAC008AB000	M8 PLAIN WASHER	8			32
11	WAC008BB000	M8 ZINC PLATED SPRING WASHER	4			33
12	TYPE200-19	200 SERIES PUMP UNIT	1			34
13	AM1	AIR MOTOR	1			
14	SEC001KT003	GASKET	1	×	✓	
15	BLC010LB035	M10 x 35 mm HEX HEAD BOLT, ZINC PLATED	4			
16	WAC010AB000	M10 ZINC PLATED FLAT WASHER	4			
17	WAC010BZ000	M10 SPRING WASHER	4			NO
18	PM1	PORT PLATE (15777)	1			- AL
19	PGP063AK001	HEP & HAP PRESSURE GAUGE ASSEMBLY	1			(UN
20	MCC000AF002	FILTER/LUBRICATOR	1			- AL
21	FRL-G160L	AIR PRESSURE GAUGE DIA 80mm	1			SER'
22	WAC004YB000	M4 WASHER ST	2			- FC

SERIAL NUMBERS	PRODUCT NO.
FROM BP7151	HAP2101

DESCRIPTION

NUT

1/2" BORE RED PVC HOSE 750mm

LONG 60 x 30 mm UNIVERSAL NAME

PLATE

NO.4 x 3/16 HAMMER DRIVE SCREW

160 mm LONG SUCTION PIPE

1/2" BSPT SUCTION PIPE

FILTER

M5 x 20 mm HEX SOCKET

COUNTERSUNK SCREW

TANK GASKET

3/8" BSP BLANKING PLUG

FRL HOUSING

M8 NYLOC NUT

012

PARTS

×

×

QTY.

2

2

1

1

1

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SPARE SERVICE

PARTS

✓

2 SHTS		
REVISION		
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2	6145	
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SHT 2 OF

NOTE:

PART NUMBER

NUC004VC000

HOC012AB001

AAN000UP001

FAS002HZ001

TAC000PA001

FPC013AC010

FFC045MZ001

BLC005HF020

FPC010PB001

TAC000FS005

NUC008KC000

15482

- ALL PARTS ARE AVAILABLE TO BE ORDERED AS INDIVIDUAL SPARE PARTS (UNLESS MARKED WITH *).
- ALL PARTS MARKED WITH ✓ ARE AVAILABLE SERVICEABLE PARTS FOUND IN: SERVICE KIT HEP-SK1
- FOR SUB ASSEMBLIES (ITEM NO.S 12 & 19) PLEASE REFER TO THEIR INDIVIDUAL EVD's.

IMPORTANT

Hi-Force

200 SERIES PUMP UNIT

SERIAL NUMBERS

PRODUCT NO. TYPE200-19

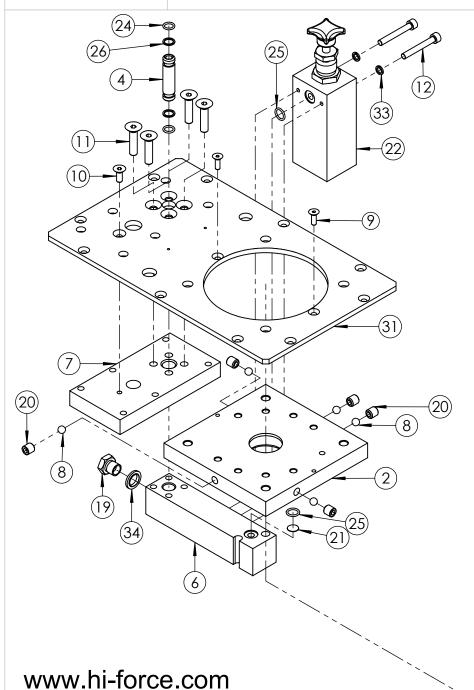
SHT 1 OF 2 SHTS

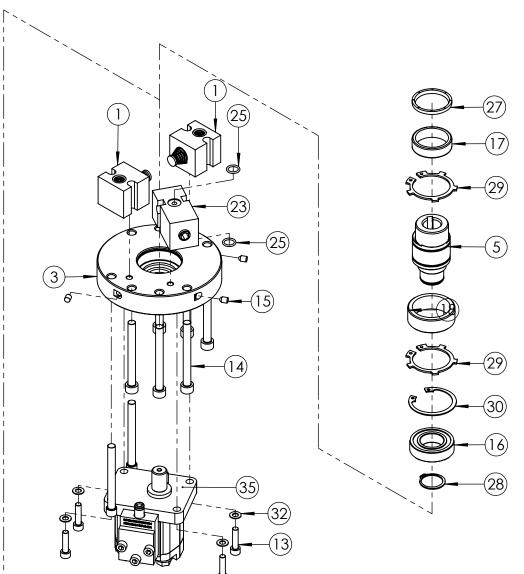
REVISION

5717
 5866
 5939

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IMPORTANT

200 SERIES PUMP UNIT

SERIAL NUMBERS PRODUCT NO. TYPE200-19

SHT 2 OF 2 SHTS

17

18 19

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ITEM NO.	NO. PART NUMBER DESCRIPTION		QTY.	SPARE PARTS	SERVICE PARTS
1	15494-A	PISTON BLOCK ASSEMBLY	2		
2	15497	UPPER PLATE	1		
3	4 15503 CONNECTOR PIPE		1		
4			1		
5			1		
6	17587	TRANSFER BLOCK	1		
7	17588	VALVE PLATE	1		
8	BAC008SN000 Ø8 mm STEEL BALL GRADE 100		5		
9	BLC005HF016	M5 x 16 mm HEX SOCKET COUNTERSUNK SCREW	2		
10	BLC006JE016	06JE016 M6 x 16 mm HEX SOCKET COUNTERSUNK SCREW			
11	BLC008KF035 M8 x 35 mm HEX SOCKET COUNTERSUNK SCREW		4		
12	BLC006JC045 M6 x 45 mm HEX SOCKET CAP	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	BPC006RS001	SEALING PLUG	3		
16	BSC025MC001	LOWER PLATE BEARING	1		
17	BSC035NC001	UPPER PLATE BEARING	1		
18	BSC040ND001	ECCENTRIC BEARING	1		
19	FAS006GJ010	1/4" BSP HEX HEAD BLANKING PLUG	1		
20	FAS010MA010	M10 X 10 CUP POINT GRUB SCREW	5		
21	FFC012MA001	SUCTION FILTER	1		
22	HPRV1	HIGH PRESSURE R/VALVE	1		
23	LPRV1	LOW PRESSURE R/VALVE	1		
24	SEC013RA001	O-RING - I.D. 9.25mm, C.S. 1.78mm, NITRILE 90	D. 9.25mm, C.S. n, NITRILE 90		✓
25	SEC014RF001	O-RING - I.D. 10.82 mm, C.S. 1.78 mm, NITRILE 90	4		✓

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS	RE	VISION
26	SEC013BA001	BACK-UP RING - PTFE, SOLID SPLIT	2		✓	1	5717 5866
27	SEC035WE001	UPPER PLATE OIL SEAL	1			3	5939
28	STC025AA001	EXTERNAL CIRCLIP - 25 x 1.2 mm D1400/025	1			4	
29	STC040AA001	EXTERNAL CIRCLIP - 40 x 1.75 mm D2100/0400	2			6	
30	STC047BA001	INTERNAL CIRCLIP - 47 x 1.75 mm D1300/0470	1			7 8	
31	TAC000BA003	COVER PLATE	1			9	
32	WAC006AF000	M6 ZINC WASHER	4			10	
33	WAC006BC001	M6 SPRING ZINC WASHER (SQUARE SECTION)	2			11 12	
34	WAC007HD000	1/4" BSP SELF CENTERING BONDED WASHER	1			13	
35	PMA048GZ001	GP48 GEAR PUMP ASSEMBLY	1			14	
			•	•			
						16	

NOTE:

- ALL PARTS ARE AVAILABLE TO BE ORDERED AS SPARE PARTS (UNLESS MARKED WITH χ).
- 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. 23 (LPRV1) IS ORDERED AS A SPARE PART, THIS ALREADY COMES WITH 2 OFF ITEM NO. 25 (SEC014RF001). THEREFORE THESE ARE NOT REQUIRED TO BE ORDERED SEPERATELY.
- FOR SUB ASSEMBLIES ITEM NO. 1 (15494-A) & ITEM NO. 35 (PMA048GZ001) REFER TO THEIR INDIVIDUAL 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

> 14 15

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS	REVISION	
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:

- ALL PARTS ARE AVAILABLE TO BE ORDERED AS SPARE PARTS (UNLESS MARKED WITH X).
- 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

SERIAL NUMBERS

PRODUCT NO.

PMA048GZ001

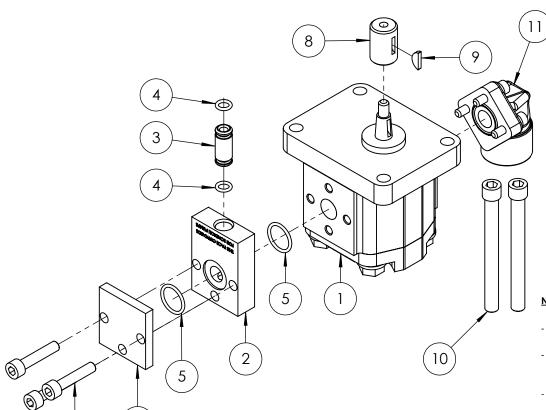
SHT 1 OF 3 SHTS

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS	RE	REVISION	
1	GP48	GEAR PUMP	1			1	1 5939	
2	PMC000TM001	TRANSFER PLATE	1			2	5983	
2	15510A	CONNECTOR TUBE	1			3		
3	15510B	CONNECTOR TUBE	1			4		
4	SEC010RA001	O-RING - I.D. 6.35 mm, C.S. 1.78 mm, NITRILE 70	2		1	5		
5	SEC019RF002	O-RING - I.D. 15.60, C.S. 1.78mm, NITRILE 90	2		1	7		
6	PMC000XM001	SEALING PLATE	1			8		
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		
		M8 X 80 HEX SOCKET REDUCED				12		
10	FAS008SP080	CAP HEAD SCREW (FULLY THREADED)	2			13		
	FD.1010D.0003	GEAR PUMP ELBOW (INC WITH	—			14		
11	FPA013DC001	GEAR PUMP)		X		15		
						16		

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)
- POSITION OF ITEM NO. 2 (PMC000TM001) IS TO BE DETERMINED BY THE BRAND OF THE GP48 GEAR PUMP SUPPLIED (REFER TO SHEET 2 FOR FURTHER DETAILS)
- ITEM NO. 3 USED IS DETERMINED BY THE BRAND OF THE GP48 GEAR PUMP SUPPLIED FOR HEP,HAP AND HPP PUMPS WITH SERIAL NUMBERS EARLIER THAN **BR9070**. FOR BONDIOLI GEAR PUMPS USE CONNECTOR TUBE 15510A AND FOR GALTECH GEAR PUMPS USE CONNECTOR TUBE 15510B (REFER TO SHEET 2 FOR FURTHER DETAILS)
- ITEM NO.10 (FAS008SP080) ARE TO REPLACE TWO SCREWS (BLC008KC080) ON THE TYPE200-24, PRIOR TO FITTING PMA048GZ001 (REFER TO SHEET 3 FOR FURTHER DETAILS)
- INDIVIDUAL ITEMS ARE NOT AVAILABLE AS SPARE PARTS FOR HEP, HAP AND HPP PUMPS WITH SERIAL NUMBERS EARLIER THAN BR9070. GP48 GEAR PUMP ASSEMBLY (PMA048GZ001) WILL NEED TO BE ORDERED. INDIVIDUAL ITEMS APART FROM ITEM NO.11 ARE AVAILABLE AS SPARE PARTS FOR HEP, HAP AND HPP PUMPS WITH SERIAL NUMBERS ABOVE BR9070

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.

CONNECTOR TUBE 15510B

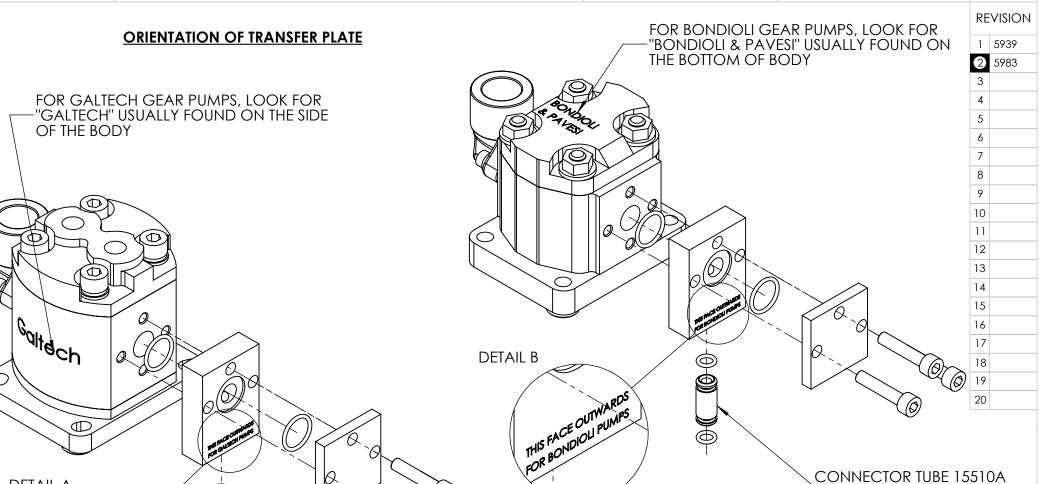
SERIAL NUMBERS

PRODUCT NO.

PMA048GZ001

CONNECTOR TUBE 15510A

SHT 2 OF 3 SHTS



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.

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THIS FACE OUTWARDS

DETAIL A

SHT 3 OF 3 SHTS

REVISION

1 5939 2 5983

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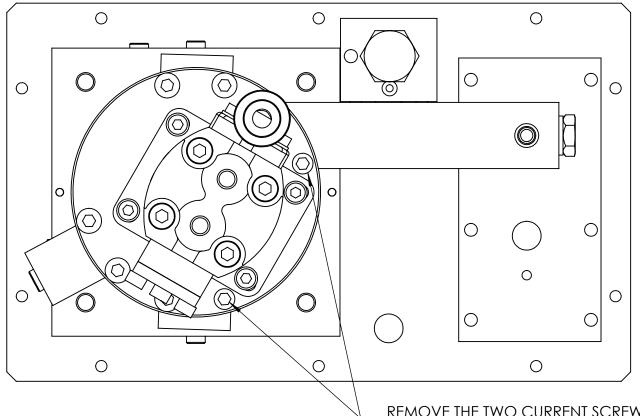
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19 20

TYPE200-24: BOTTOM VIEW



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

IMPORTANT



HEP & HAP PRESSURE GAUGE ASSEMBLY

SERIAL NUMBERS	PRODUCT NO.	VERSION	
	PGP063AK001	01	SHT 1 OF 1 SHTS

(5) (7) (1) (9) (8) (1) (2) (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
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						1 31113	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	RE	REVISION	
1	WAC005EC001	M5 X 9 X 1.0 COPPER SEALING WASHER	CEALING MACHED		2	5717	
2	BLC006JH010	M6 X 10 mm, HEX SOCKET, BUTTON HEAD SCREW	1		3		
3	HF16	ELBOW, 3/8" NPT FEMALE TO 3/8" NPT MALE	1		5		
4	PGB063PF001	FLANGE MOUNTED 700 Bar PRESSURE GAUGE	1		6 7		
5	HOC006GB001	700 Bar GAUGE HOSE WITH 1/4"BSP CONE FEMALE FITTINGS	1		8		
6	FPC010BN008	M/M ADAPTOR 3/8 NPT x 1/4 BSP INT 60° CONE 1000 Bar (STAINLESS STEEL)	1		10 11 12		
7	ANC013PC001	13mm BLACK STAINLESS STEEL P CLIP	1		13		
8	FPC006BB002	700 Bar SS 1/4" BSPP x BSPP FIXED FEMALE GAUGE ADAPTOR	1		14 15 16		
9	BLC003ZD010	M3 X 10 mm HEX SOCKET CAP HEAD SCREW	6		17 18		
10	NUC003UK001	M3 FEMALE STEEL HEX STANDOFF 30mm LONG	3		19		
11	SFC085HA001	STRAIN RELIEF PLATE	1		20		

NOTE:

- ALL PARTS ARE AVAILABLE TO BE ORDERED AS SPARE PARTS (UNLESS MARKED WITH X).

IMPORTANT

Hi-Force
HYDRAULIC TOOLS

PORT PLATE (15777)

SERIAL NUMBERS

PRODUCT NO.

PM1

version 02

SHT 1 OF 1 SHTS

REVISION

1 5717

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	SEC003KT001	VALVE GASKET	1
2	VFC010BF010	CONNECTOR PLATE	1
3	BLC008KD035	M8 x 35 mm HEX SOCKET CAP HEAD SCREW	6

4 FPC002PN001 1/16" x 7/8" NPT SOCKET PLUG 1
5 FPC010PN002 3/8" X 7/8" NPT SOCKET PLUG 1
6 BPC010SP004 3/8 NPT PLASTIC BLANKING PLUG (RED) 2

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NOTE:

- ALL PARTS ARE AVAILABLE TO BE ORDERED AS SPARE PARTS (UNLESS MARKED WITH \boldsymbol{x}).

<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.

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PUMP SERVICE KIT

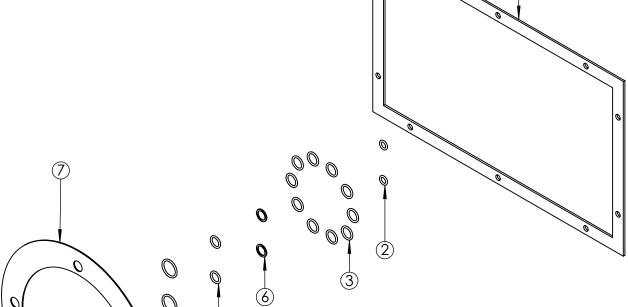
SERIAL NUMBERS	

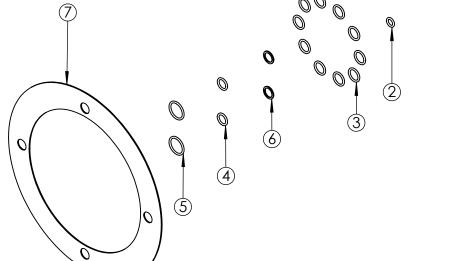
PRODUCT NO. HEP-SK1

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

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.