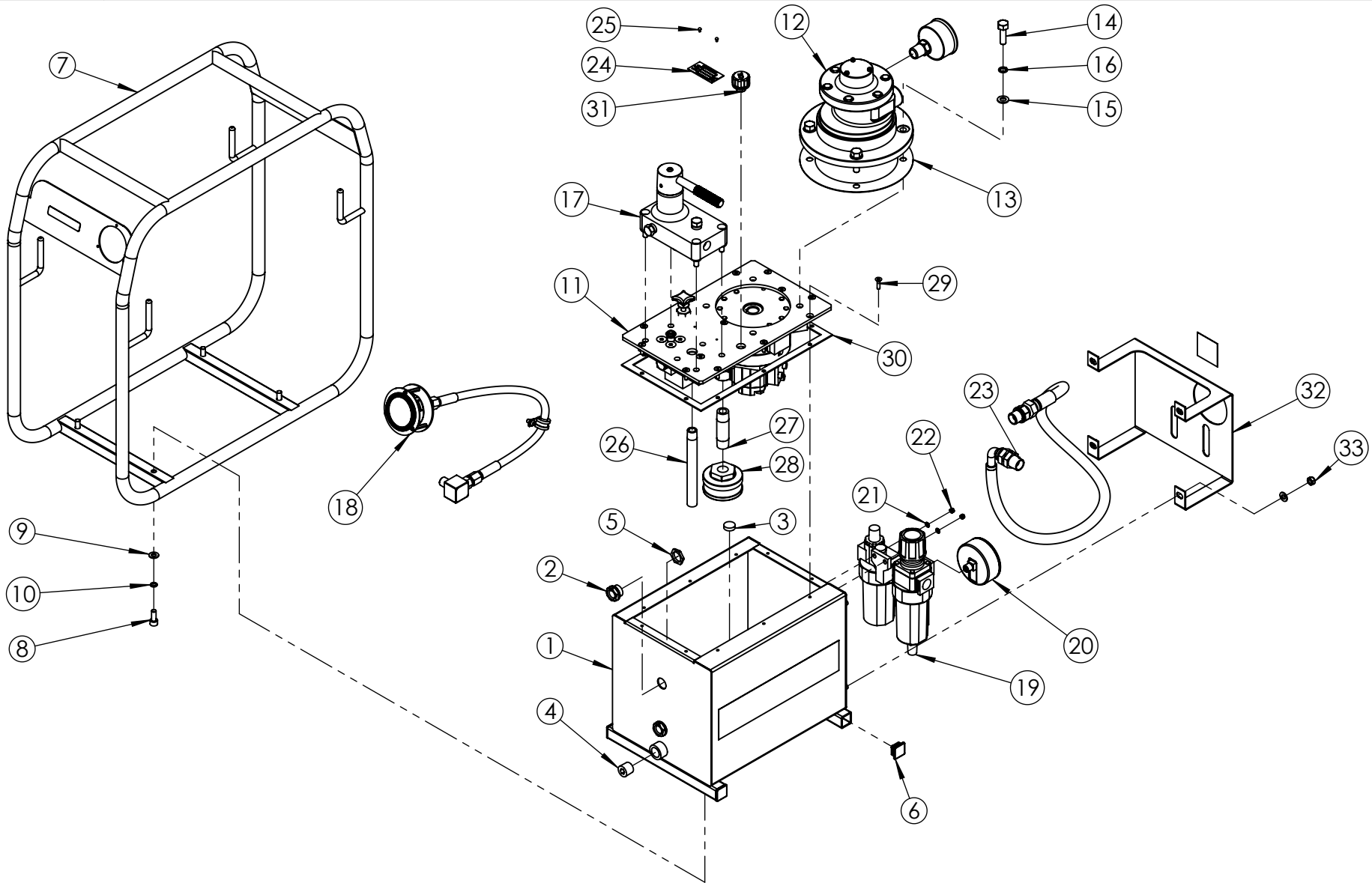


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IMPORTANT

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TO PROTECT YOUR WARRANTY ALWAYS USE GENUINE HI-FORCE PARTS.

AIR DRIVEN, TWO STAGE PUMP

SERIAL NUMBERS

FROM BP7151

PRODUCT NO.

HAP21021

SHT 2 OF
2 SHTS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS
1	TAC010AS012	10L Tank	1			23	HOC012AB001	1/2" BORE RED PVC HOSE 750mm LONG	1		
2	BLC021YT010	SIGHT GLASS HGF.13 BLACK OIL LEVEL INDICATOR	2			24	AAN000UP001	60 x 30 mm UNIVERSAL NAME PLATE	1	✘	
3	DCSF00328	DOUBLE SIDED MAGNET	1			25	FAS002HZ001	NO.4 x 3/16 HAMMER DRIVE SCREW	2		
4	FPC013PC001	1/2" BSP PLUG - HEX SOCKET	1			26	TAC000PA001	160 mm LONG SUCTION PIPE	1		
5	NUC021-B000	1/2" BSP LOCK NUT	2			27	FPC013AC010	1/2" BSPT SUCTION PIPE	1		
6	BPC025KP001	1" SQ RIBBED INSERT BLACK	4			28	FFC045MZ001	FILTER	1		
7	TAC010CS002	10L ROLL FRAME	1			29	BLC005HF020	M5 x 20 mm HEX SOCKET COUNTERSUNK SCREW	10		
8	BLC008KD020	M8 x 20 mm HEX SOCKET CAP HEAD SCREW	4			30	15482	TANK GASKET	1	✘	✓
9	WAC008AB000	M8 PLAIN WASHER	8			31	BPC010SP002	FILLER	1		
10	WAC008BB000	M8 ZINC PLATED SPRING WASHER	4			32	TAC000FS005	FRL HOUSING	1		
11	TYPE200-19	200 SERIES PUMP UNIT	1			33	NUC008KC000	M8 NYLOC NUT	4		
12	AM1	AIR MOTOR	1			<p>NOTE:</p> <p>- ALL PARTS ARE AVAILABLE TO BE ORDERED AS INDIVIDUAL SPARE PARTS (UNLESS MARKED WITH ✘).</p> <p>- ALL PARTS MARKED WITH ✓ ARE AVAILABLE SERVICEABLE PARTS FOUND IN: SERVICE KIT HEP-SK1</p> <p>- FOR SUB ASSEMBLIES (ITEM NO.S 11, 17 & 18) PLEASE REFER TO THEIR INDIVIDUAL EVD's.</p>					
13	SEC001KT003	GASKET	1	✘	✓						
14	BLC010LB035	M10 x 35 mm HEX HEAD BOLT, ZINC PLATED	4								
15	WAC010AB000	M10 ZINC PLATED FLAT WASHER	4								
16	WAC010BZ000	M10 SPRING WASHER	4								
17	PMV2	2 WAY, MANUALLY OPERATED PUMP MOUNTED DIRECTIONAL CONTROL VALVE	1								
18	PGP063AK001	HEP & HAP PRESSURE GAUGE ASSEMBLY	1								
19	MCC000AF002	FILTER/LUBRICATOR	1								
20	FRL-G160L	AIR PRESSURE GAUGE DIA 80mm	1								
21	WAC004YB000	M4 WASHER ST	2								
22	NUC004VC000	NUT	2								

REVISION

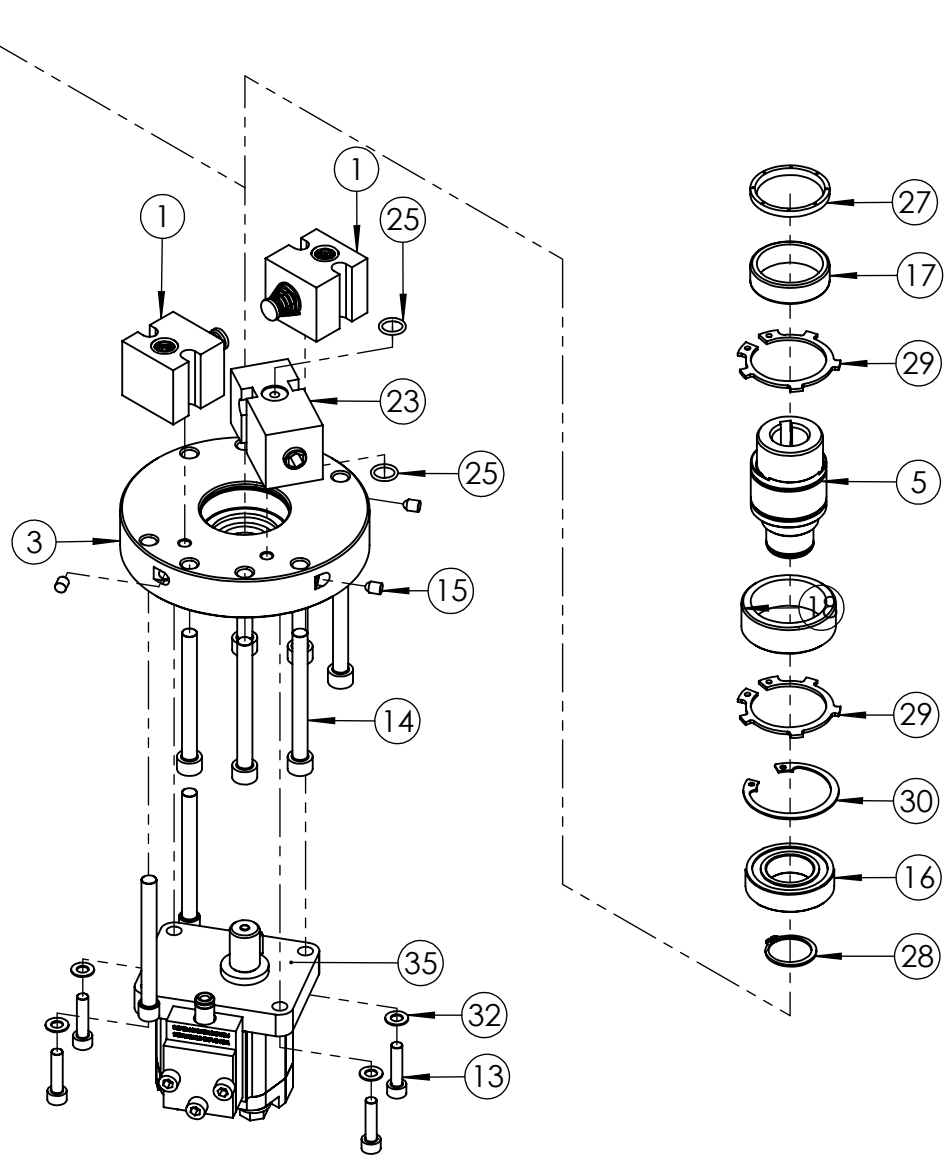
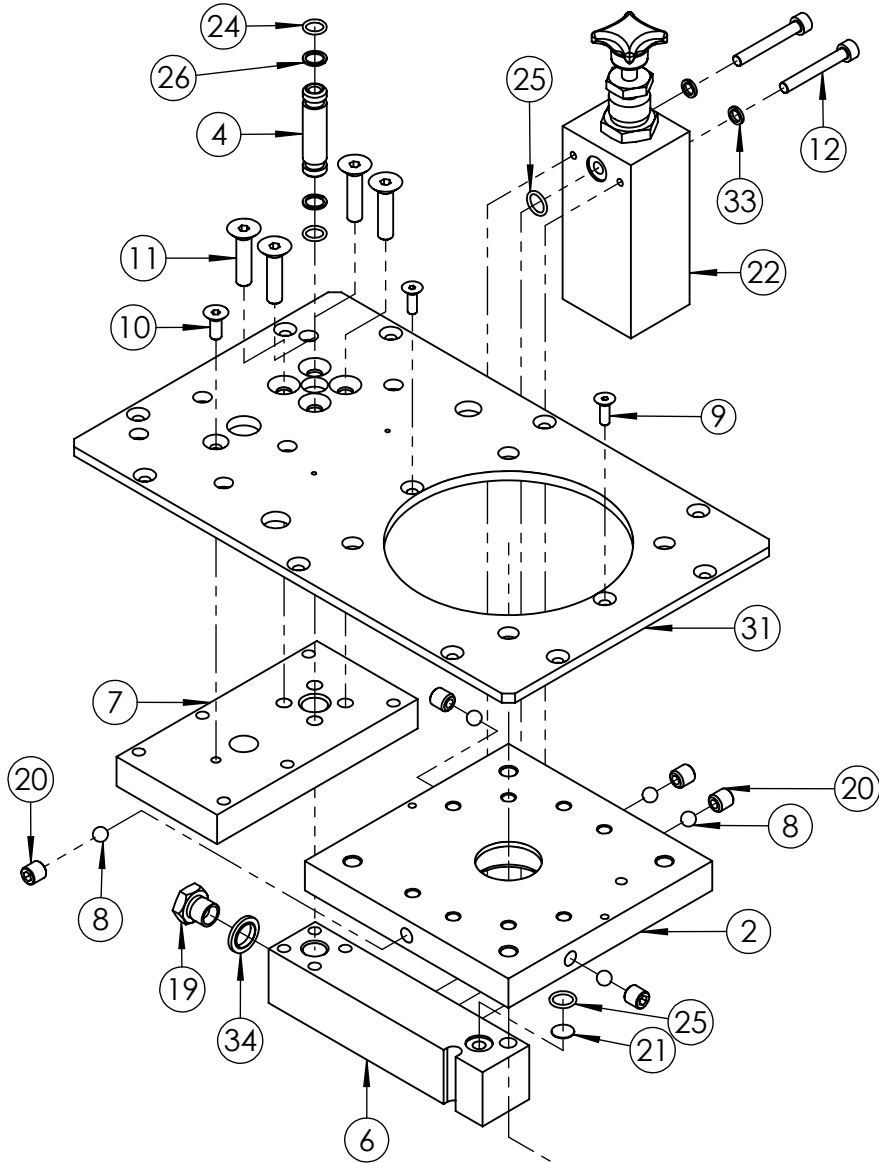
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200 SERIES PUMP UNIT						SERIAL NUMBERS		PRODUCT NO. TYPE200-19			SHT 2 OF 2 SHTS	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS	REVISION
1	15494-A	PISTON BLOCK ASSEMBLY	2			26	SEC013BA001	BACK-UP RING - PTFE, SOLID SPLIT	2		✓	1 5717
2	15497	UPPER PLATE	1			27	SEC035WE001	UPPER PLATE OIL SEAL	1			2 5866
3	15499	LOWER PLATE	1			28	STC025AA001	EXTERNAL CIRCLIP - 25 x 1.2 mm D1400/025	1			3 5939
4	15503	CONNECTOR PIPE	1			29	STC040AA001	EXTERNAL CIRCLIP - 40 x 1.75 mm D2100/0400	2			4
5	15498	DRIVE SHAFT	1			30	STC047BA001	INTERNAL CIRCLIP - 47 x 1.75 mm D1300/0470	1			5
6	17587	TRANSFER BLOCK	1			31	TAC000BA003	COVER PLATE	1			6
7	17588	VALVE PLATE	1			32	WAC006AF000	M6 ZINC WASHER	4			7
8	BAC008SN000	Ø8 mm STEEL BALL GRADE 100	5			33	WAC006BC001	M6 SPRING ZINC WASHER (SQUARE SECTION)	2			8
9	BLC005HF016	M5 x 16 mm HEX SOCKET COUNTERSUNK SCREW	2			34	WAC007HD000	1/4" BSP SELF CENTERING BONDED WASHER	1			9
10	BLC006JE016	M6 x 16 mm HEX SOCKET COUNTERSUNK SCREW	1			35	PMA048GZ001	GP48 GEAR PUMP ASSEMBLY	1			10
11	BLC008KF035	M8 x 35 mm HEX SOCKET COUNTERSUNK SCREW	4									11
12	BLC006JC045	M6 x 45 mm HEX SOCKET CAP HEAD SCREW	2									12
13	BLC006JD025	M6 x 25 mm HEX SOCKET CAP HEAD SCREW	4									13
14	BLC008KC080	M8 x 80 mm HEX SOCKET CAP HEAD SCREW	6									14
15	BPC006RS001	SEALING PLUG	3									15
16	BSC025MC001	LOWER PLATE BEARING	1									16
17	BSC035NC001	UPPER PLATE BEARING	1									17
18	BSC040ND001	ECCENTRIC BEARING	1									18
19	FAS006GJ010	1/4" BSP HEX HEAD BLANKING PLUG	1									19
20	FAS010MA010	M10 X 10 CUP POINT GRUB SCREW	5									20
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	2		✓							
25	SEC014RF001	O-RING - I.D. 10.82 mm, C.S. 1.78 mm, NITRILE 90	4		✓							

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. 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

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS	REVISION
1	15494	PISTON BLOCK	1	✗		1 5717
2	15495	PISTON	1	✗		2 5866
3	15496	VALVE SEAT	1	✗		3
4	15509	SUCTION/DELIVERY SPRING	2	✗		4
5	15508	PUMP SPRING	1	✗		5
6	BAC005SN000	Ø5 mm STEEL BALL GRADE 100	2	✗		6
7	SEC014RF001	O-RING - I.D. 10.82 mm, C.S. 1.78 mm, NITRILE 90	2		✓	7
8	SEC010RA001	O-RING - I.D. 6.35 mm, C.S. 1.78 mm, NITRILE 70	1	✗		8
9	STC008SA001	N1305-0031 SELF LOCKING RING	1	✗		9
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	SERVICE PARTS	REVISION	
1	GP48	GEAR PUMP	1			1	5939
2	PMC000TM001	TRANSFER PLATE	1			2	5983
3	15510A	CONNECTOR TUBE	1			3	
	15510B	CONNECTOR TUBE	1			4	
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			8	
8	15507	ADAPTOR	1			9	
9	PCC002WC001	KEY TO FIT 200/300 PUMPS	1			10	
10	FAS008SP080	M8 X 80 HEX SOCKET REDUCED CAP HEAD SCREW (FULLY THREADED)	2			11	
11	FPA013DC001	GEAR PUMP ELBOW (INC WITH GEAR PUMP)	1	x		12	

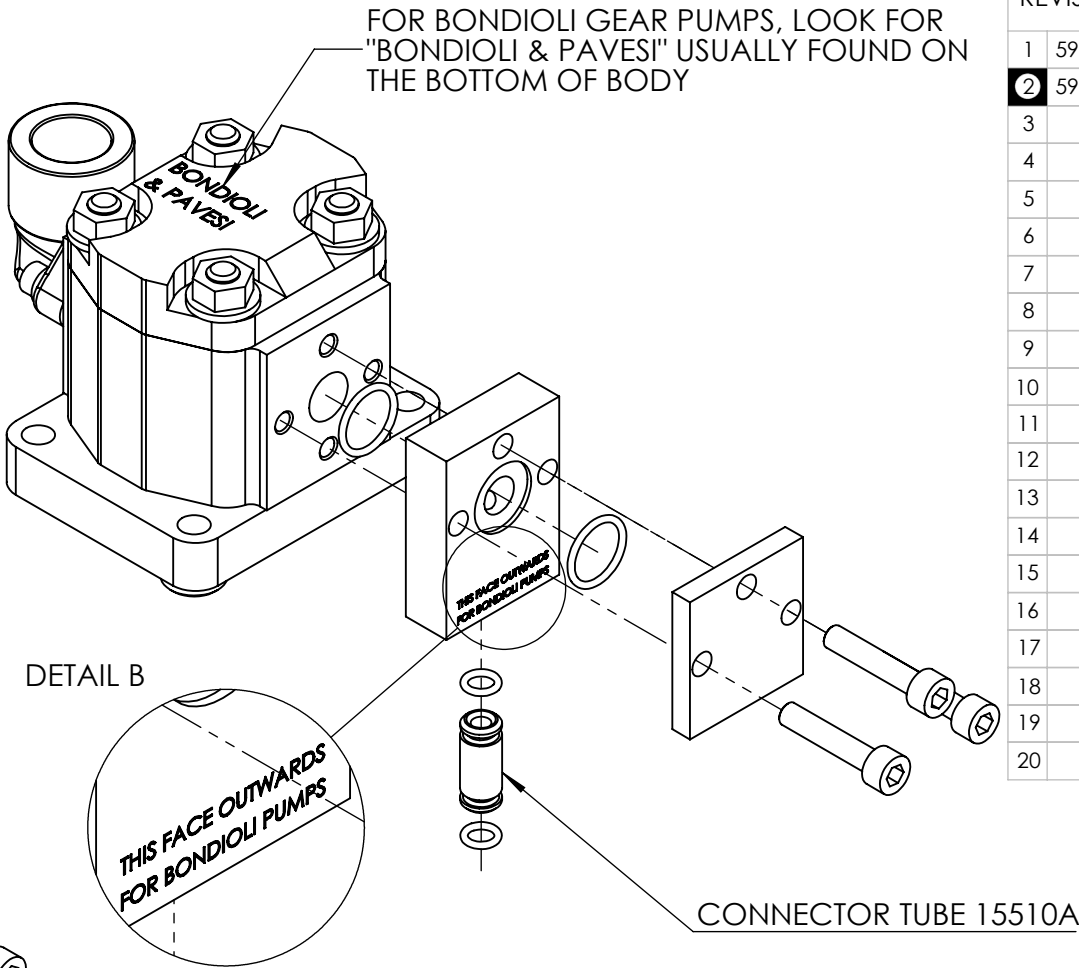
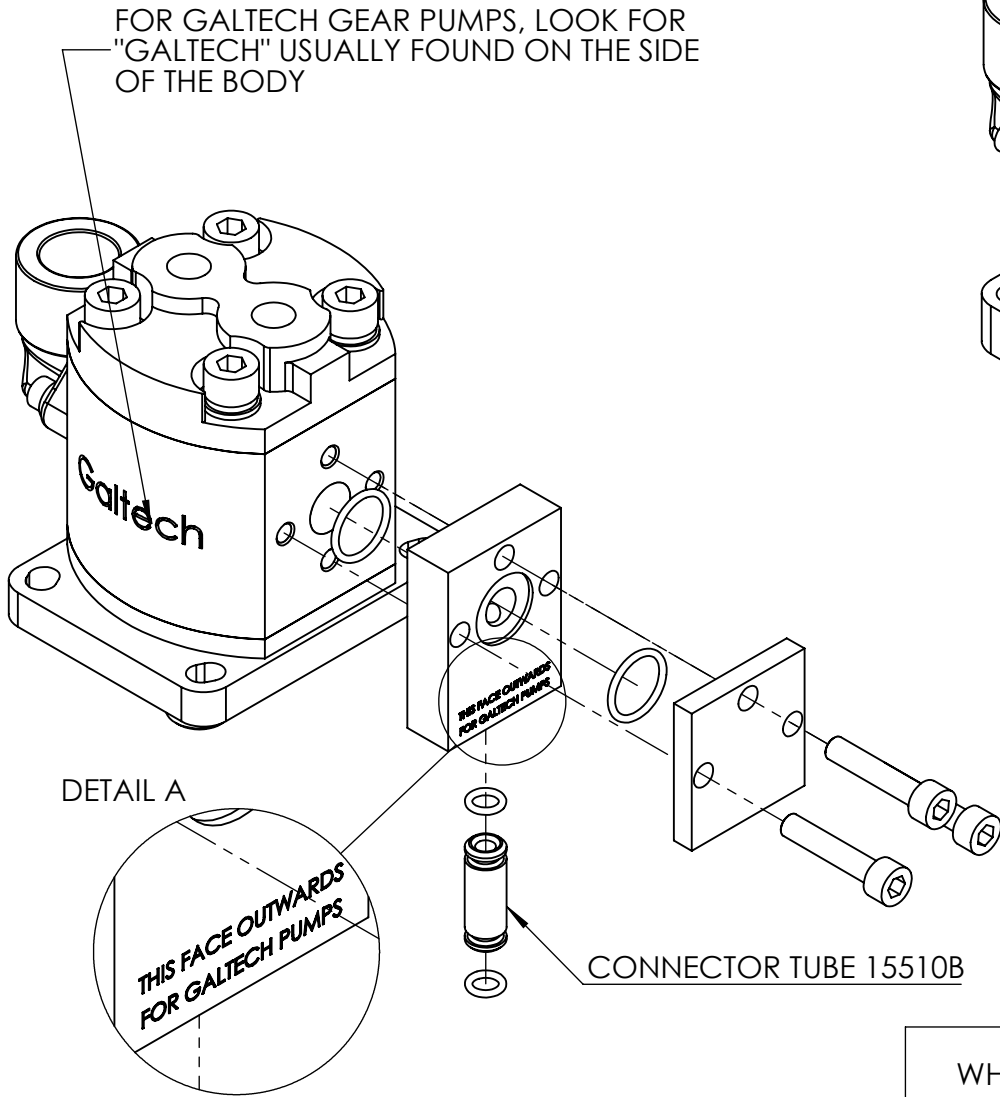
NOTE:

- 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

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ORIENTATION OF TRANSFER PLATE



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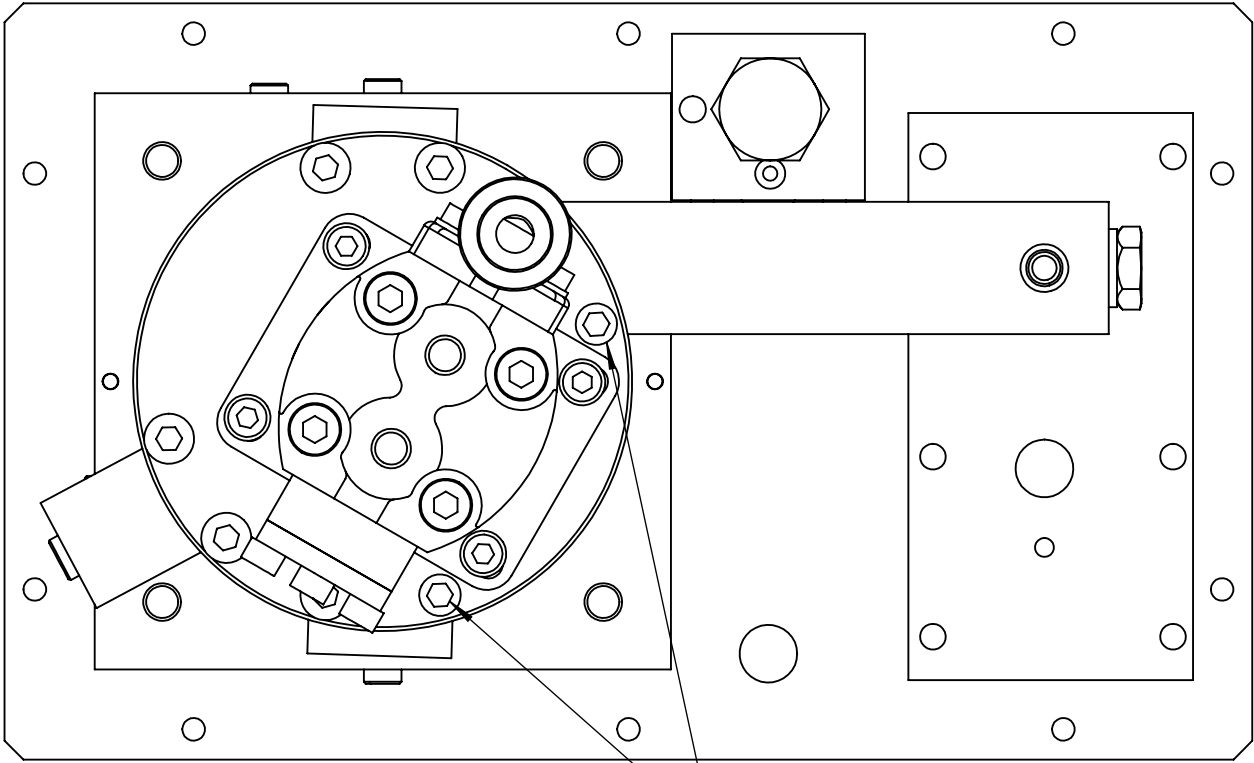
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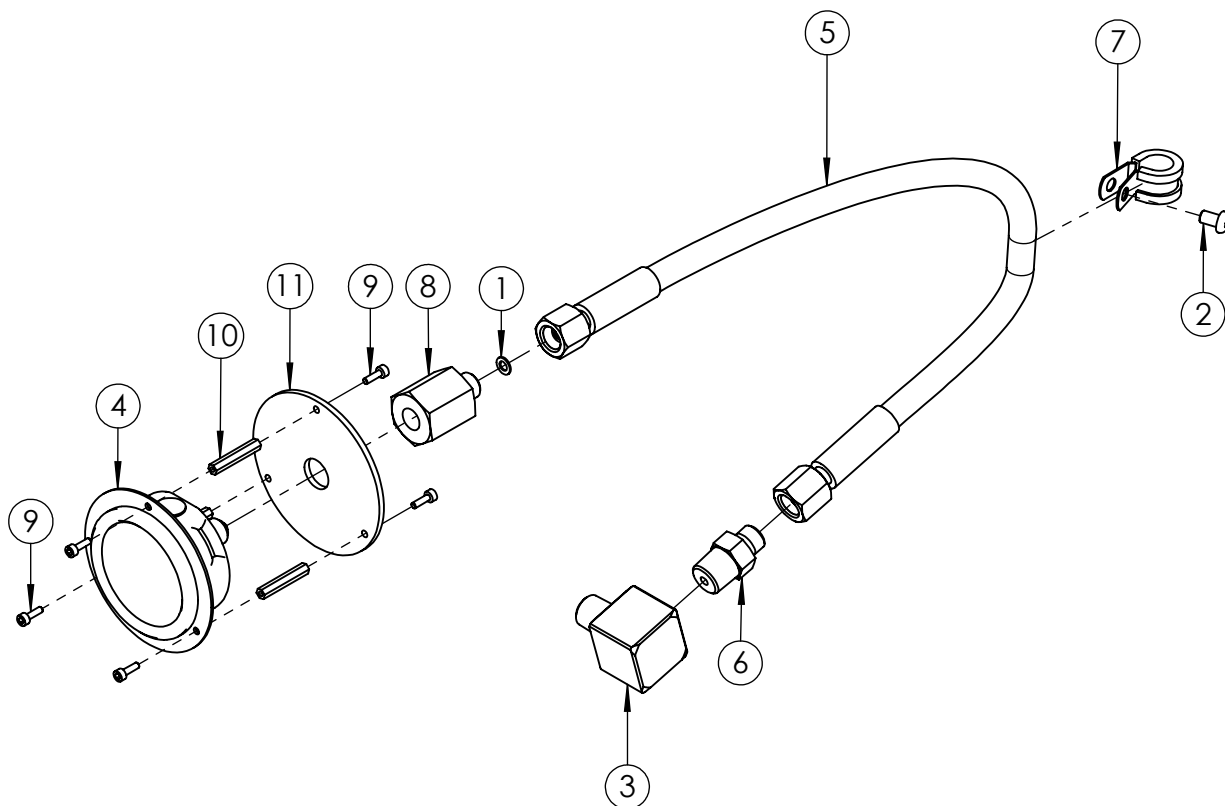
TYPE200-24: BOTTOM VIEW



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

IMPORTANT

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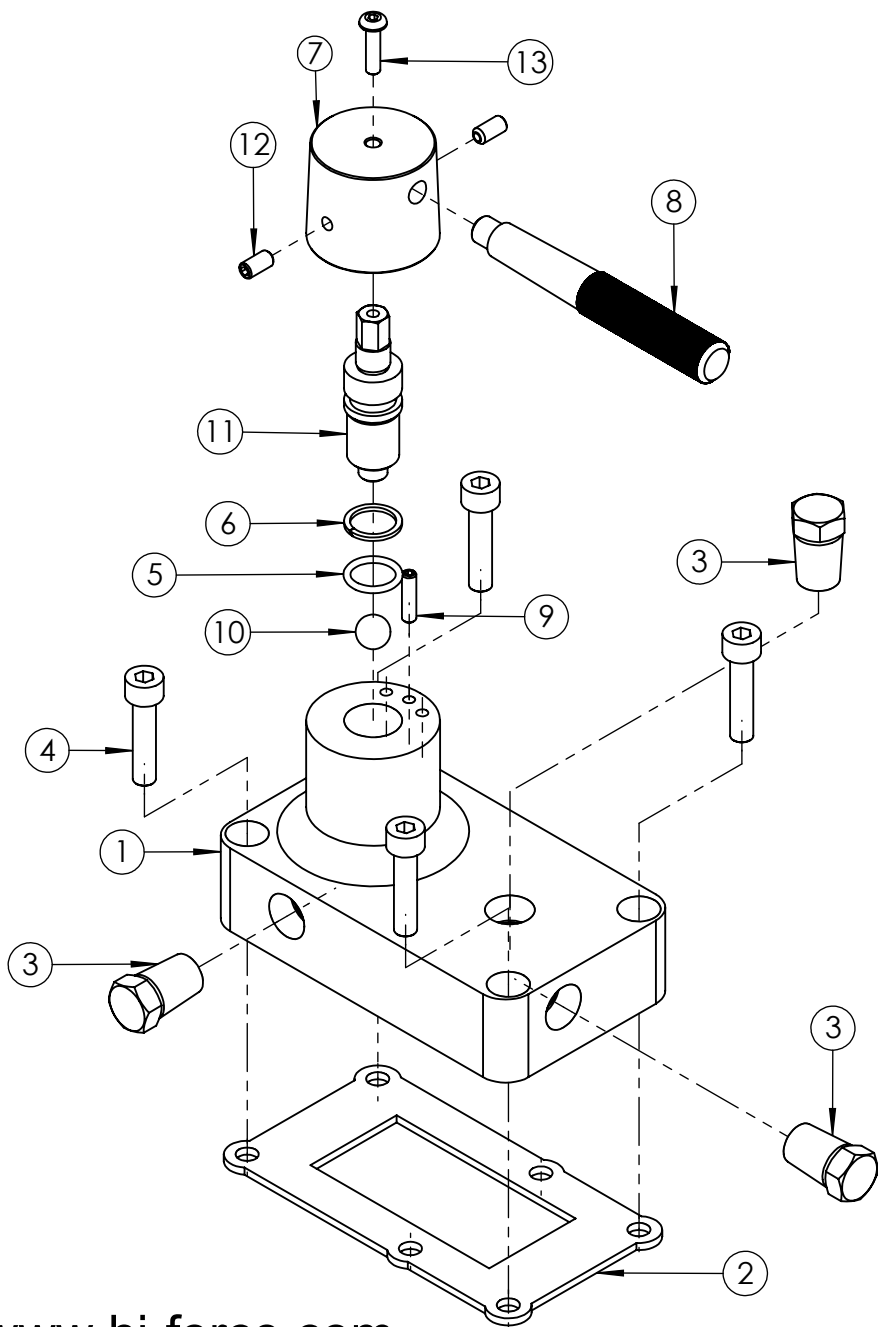
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	REVISION
1	WAC005EC001	M5 X 9 X 1.0 COPPER SEALING WASHER	1		1 5717
2	BLC006JH010	M6 X 10 mm, HEX SOCKET, BUTTON HEAD SCREW	1		2
3	HF16	ELBOW, 3/8" NPT FEMALE TO 3/8" NPT MALE	1		3
4	PGB063PF001	FLANGE MOUNTED 700 Bar PRESSURE GAUGE	1		4
5	HOC006GB001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

NOTE:

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPARE PARTS	REVISION
1	VFC010BF014	VALVE MOUNTING BLOCK	1	X	1 5717
2	SEC003KT001	VALVE GASKET	1		2
3	FPC010PN001	3/8 NPT BLANKING PLUG	3		3
4	BLC008KD035	M8 x 35 mm HEX SOCKET CAP HEAD SCREW	4		4
5	SEC020RA001	O-RING - I.D. 15.60 mm, C.S. 2.4 mm, NITRILE 70	1		5
6	SEC020BA001	BACK UP RING	1		6
7	HLC046BM001	HANDLE BASE	1	X	7
8	HLC010BM002	PMV2 - HANDLE	1	X	8
9	FAS005MB001	M5 x 20 mm HEX SOCKET CUP PT SCREW	1		9
10	BAC012SN001	12mm STEEL BALL	1		10
11	VFC010DR002	SPINDLE	1	X	11
12	FAS006MB012	M6 x 12 mm HEX SOCKET CUP PT SCREW	2		12
13	BLC005HH020	M5 x 20 mm HEX SOCKET BUTTON HEAD SCREW	1		13
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NOTE:

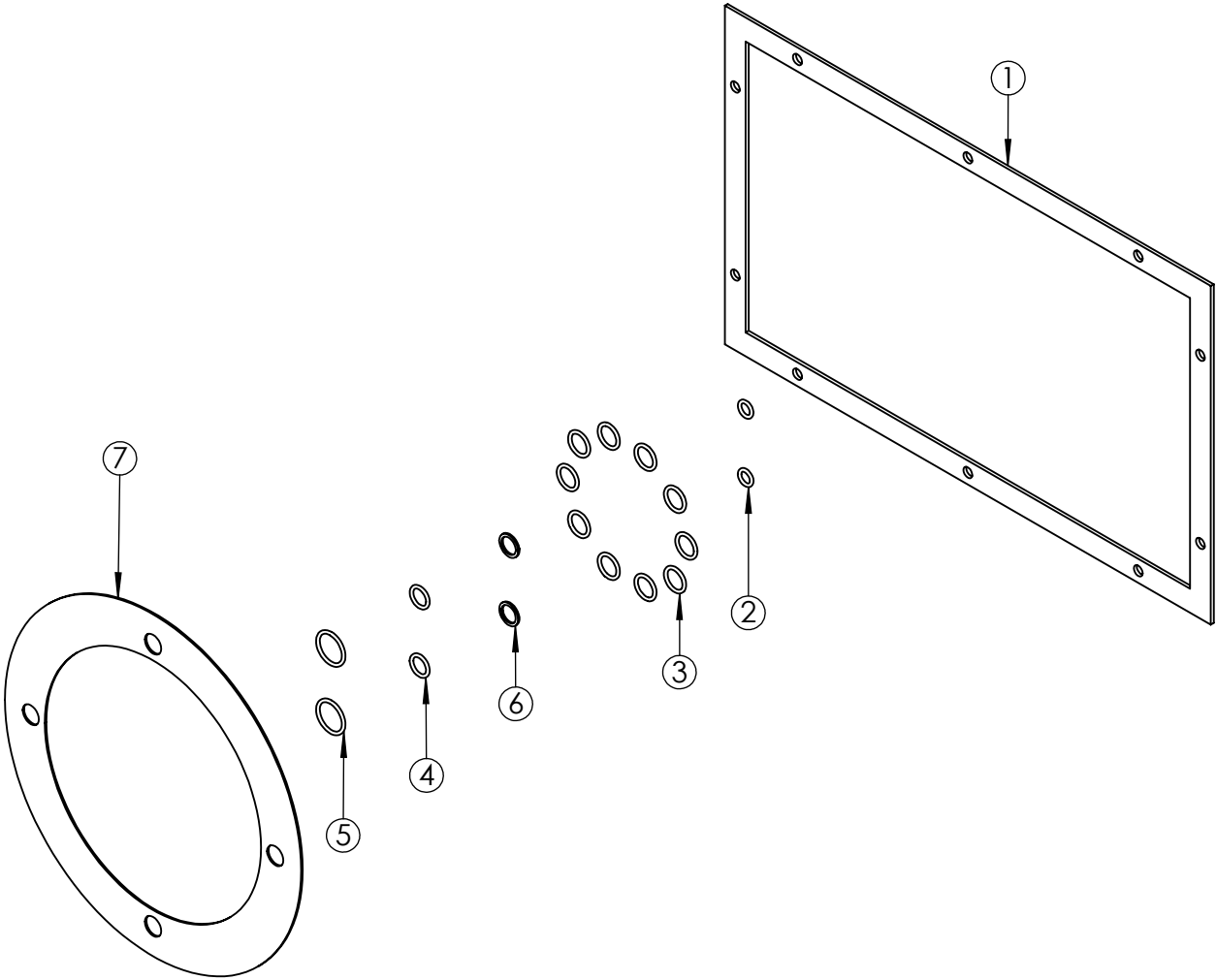
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	15482	TANK GASKET	1
2	SEC010RA001	O-RING - I.D. 6.35 mm, C.S. 1.78 mm, NITRILE 70	2
3	SEC014RF001	O-RING - I.D. 10.82 mm, C.S. 1.78 mm, NITRILE 90	10
4	SEC013RA001	O-RING - I.D. 9.25mm, C.S. 1.78mm, NITRILE 90	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
7	SEC001KT003	GASKET	1

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