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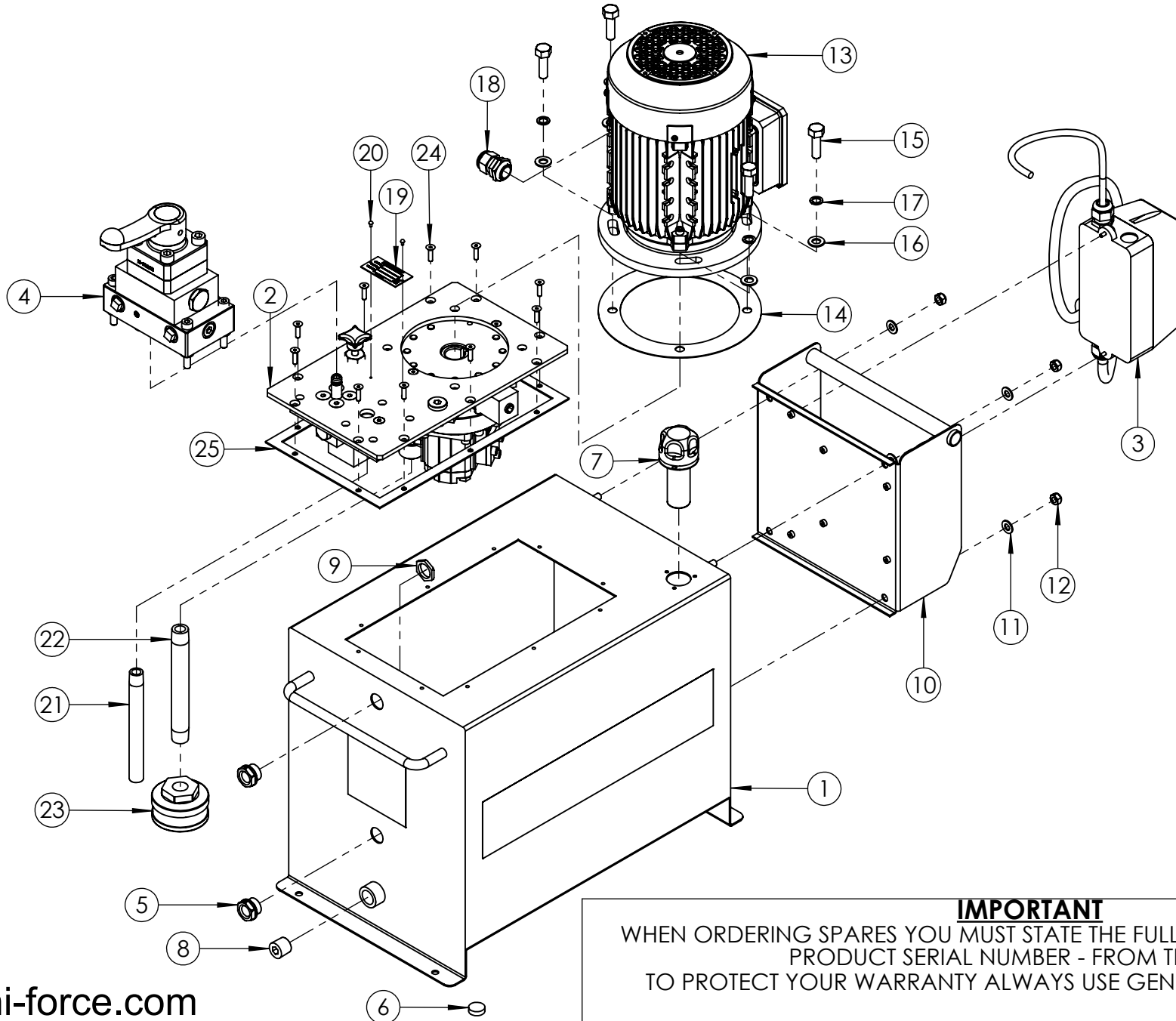
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IMPORTANT

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.

| 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 | EMA415UD001 | 400 V MOTOR STARTER ASSEMBLY | 1 | | |
| 4 | PMV4L | 4 WAY, MANUALLY OPERATED, PUMP MOUNTED DIRECTIONAL CONTROL VALVE WITH LOAD HOLDING | 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 | EM415-3.0-2LAF | 3kW 2 POLE IE3 230/400V 3/50Hz IMB5 FLANGE MOUNT | 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 | | |
| 18 | NUC020LS002 | GLAND 6-12MM | 1 | | |
| 19 | AAN000UP001 | 60 x 30 mm UNIVERSAL NAME PLATE | 1 | x | |
| 20 | FAS002HZ001 | 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 | | ✓ |
| * | SFC065FA002 | BLANKING PLATE | 1 | | |

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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)

- FOR SUB ASSEMBLIES (ITEM NO.S 2, 3 & 4) REFER TO THEIR INDIVIDUAL EVD's.

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REVISION

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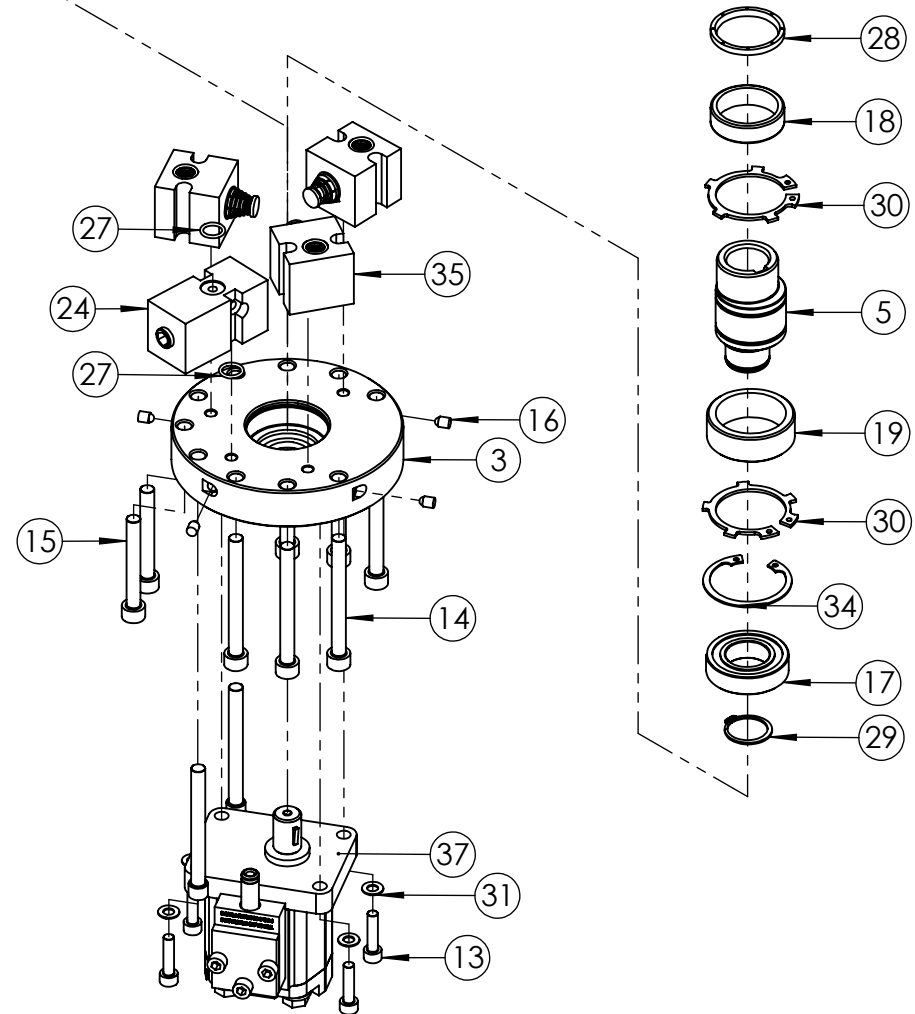
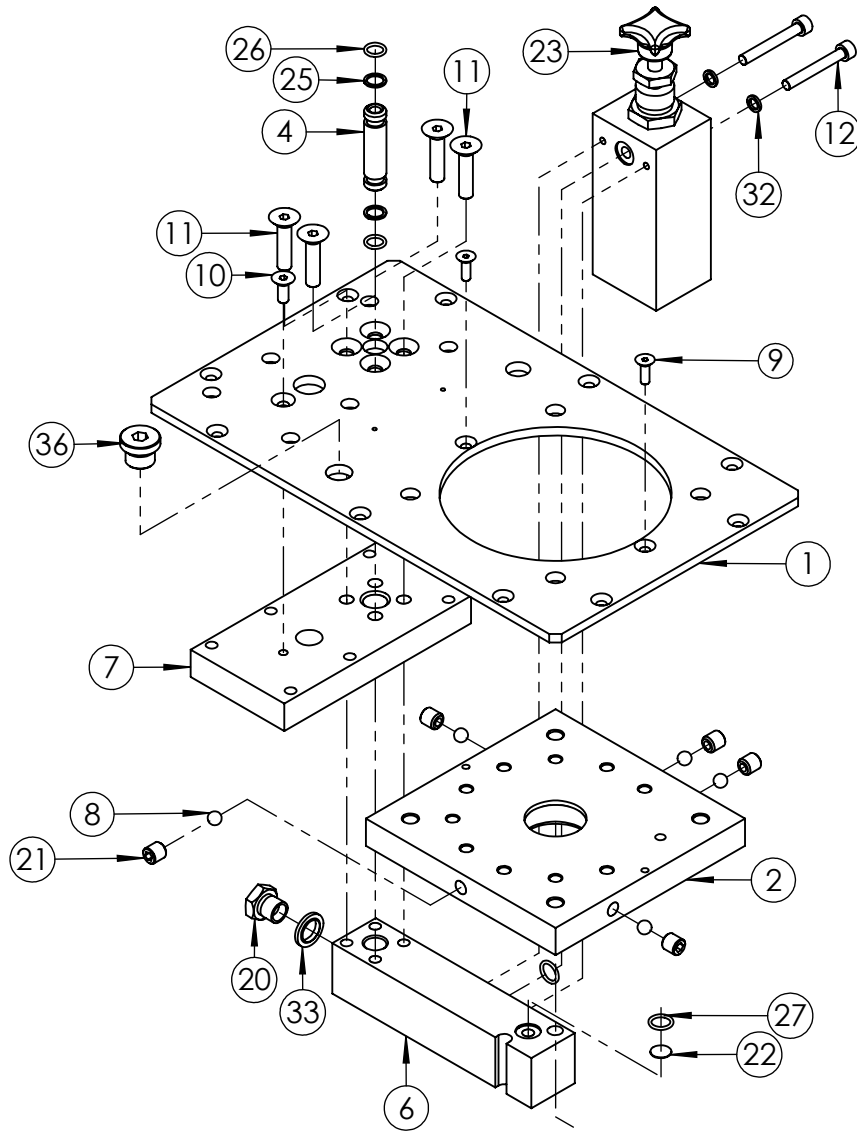
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| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. | SPARE PARTS | SERVICE PARTS |
|----------|-------------|--|------|-------------|---------------|
| 1 | TAC000BA003 | COVER PLATE | 1 | | |
| 2 | PMC000UM001 | UPPER PLATE | 1 | | |
| 3 | PMC000LF001 | 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 | BAC008SN000 | 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 | | ✓ |
| 27 | 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 | REVISION |
|----------|-------------|--|------|-------------|---------------|----------|
| 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 | | | 4 |
| 32 | WAC006BC001 | M6 SPRING ZINC WASHER (SQUARE SECTION) | 2 | | | 5 |
| 33 | WAC007HD000 | 1/4" BSP SELF CENTERING BONDED WASHER | 1 | | | 6 |
| 34 | STC047BA001 | INTERNAL CIRCLIP - 47 x 1.75 mm D1300/0470 | 1 | | | 7 |
| 35 | 15494-A | PISTON BLOCK ASSEMBLY | 3 | | | 8 |
| 36 | FPC010PB001 | 3/8" BSP BLANKING PLUG | 1 | | | 9 |
| 37 | PMA060GZ001 | GP60 GEAR PUMP ASSEMBLY | 1 | | | 10 |
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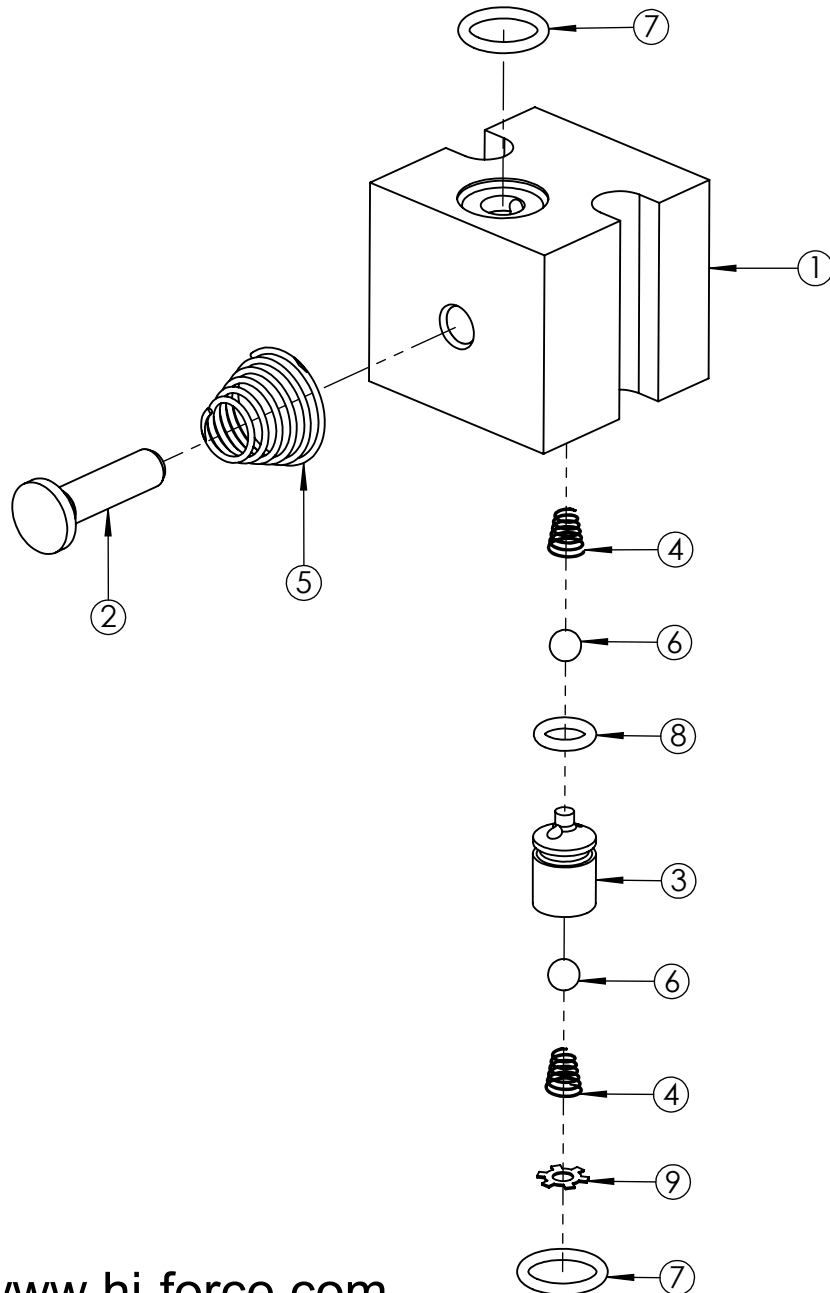
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- IF ITEM NO. 24 (**LPRV1**) IS ORDERED AS A SPARE PART, THIS ALREADY COMES WITH 2 OFF ITEM NO.27 (**SEC014RF001**). THEREFORE THESE ARE NOT REQUIRED TO BE ORDERED SEPERATELY.

- FOR SUB ASSEMBLIES - ITEM NO. 35 (**15494-A**) & ITEM NO. 37 (**PMA060GZ001**) REFER TO THEIR 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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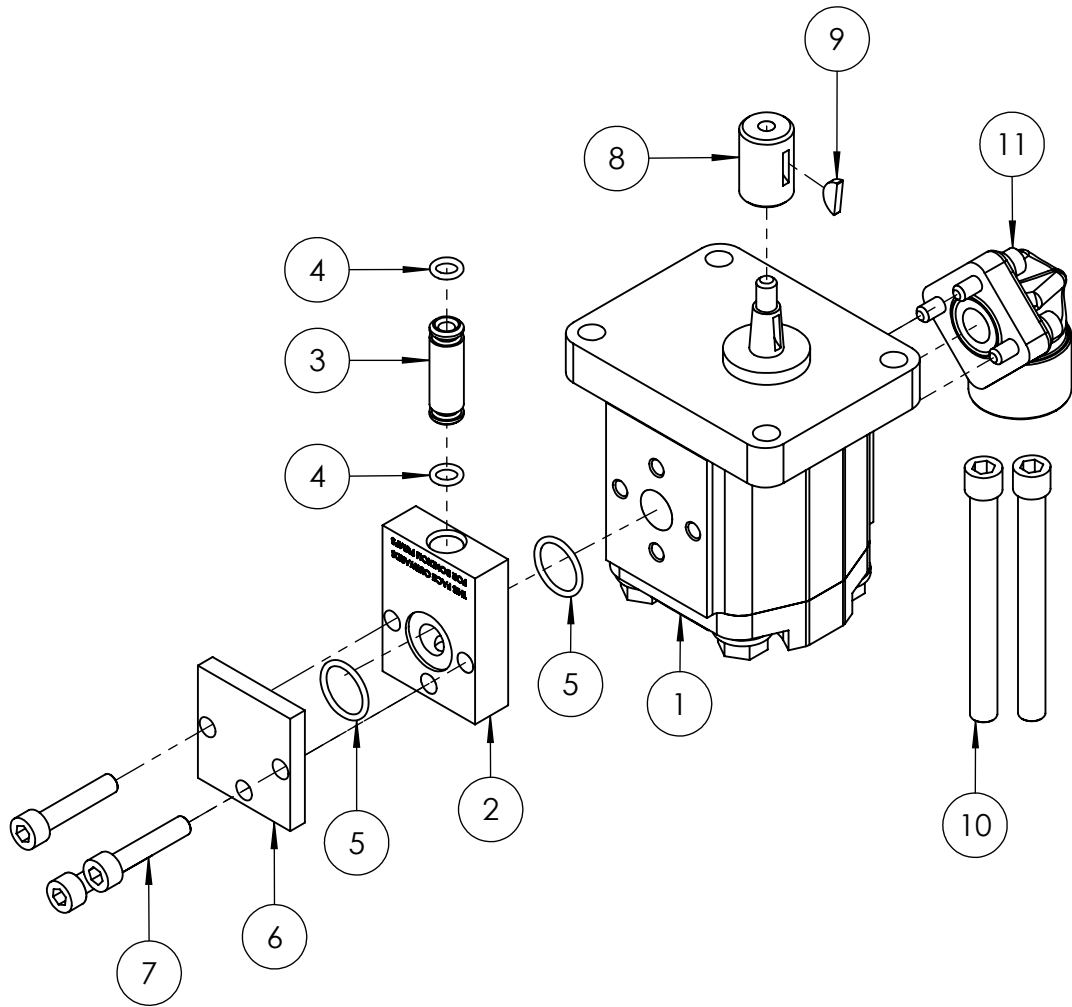
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| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. | SPARE PARTS | SERVICE PARTS | REVISION |
|----------|-------------|--|------|-------------|---------------|----------|
| 1 | GP60 | GEAR PUMP | 1 | | | 1 5939 |
| 2 | PMC000TM001 | TRANSFER PLATE | 1 | | | 2 |
| 3 | 15510C | CONNECTOR TUBE | 1 | | | 3 |
| 4 | SEC010RA001 | O-RING - I.D. 6.35 mm, C.S. 1.78 mm, NITRILE 70 | 2 | | ✓ | 4 |
| 5 | SEC019RF002 | O-RING - I.D. 15.60, C.S. 1.78mm, NITRILE 90 | 2 | | ✓ | 5 |
| 6 | PMC000XM001 | SEALING PLATE | 1 | | | 6 |
| 7 | BLC006JD030 | M6 x 30 mm HEX SOCKET CAP HEAD SCREW | 3 | | | 7 |
| 8 | 15507 | ADAPTOR | 1 | | | 8 |
| 9 | PCC002WC001 | KEY TO FIT 200/300 PUMPS | 1 | | | 9 |
| 10 | FAS008SP080 | M8 X 80 HEX SOCKET REDUCED CAP HEAD SCREW (FULLY THREADED) | 2 | | | 10 |
| 11 | FPA013DC001 | GEAR PUMP ELBOW (INC WITH GEAR PUMP) | 1 | x | | 11 |

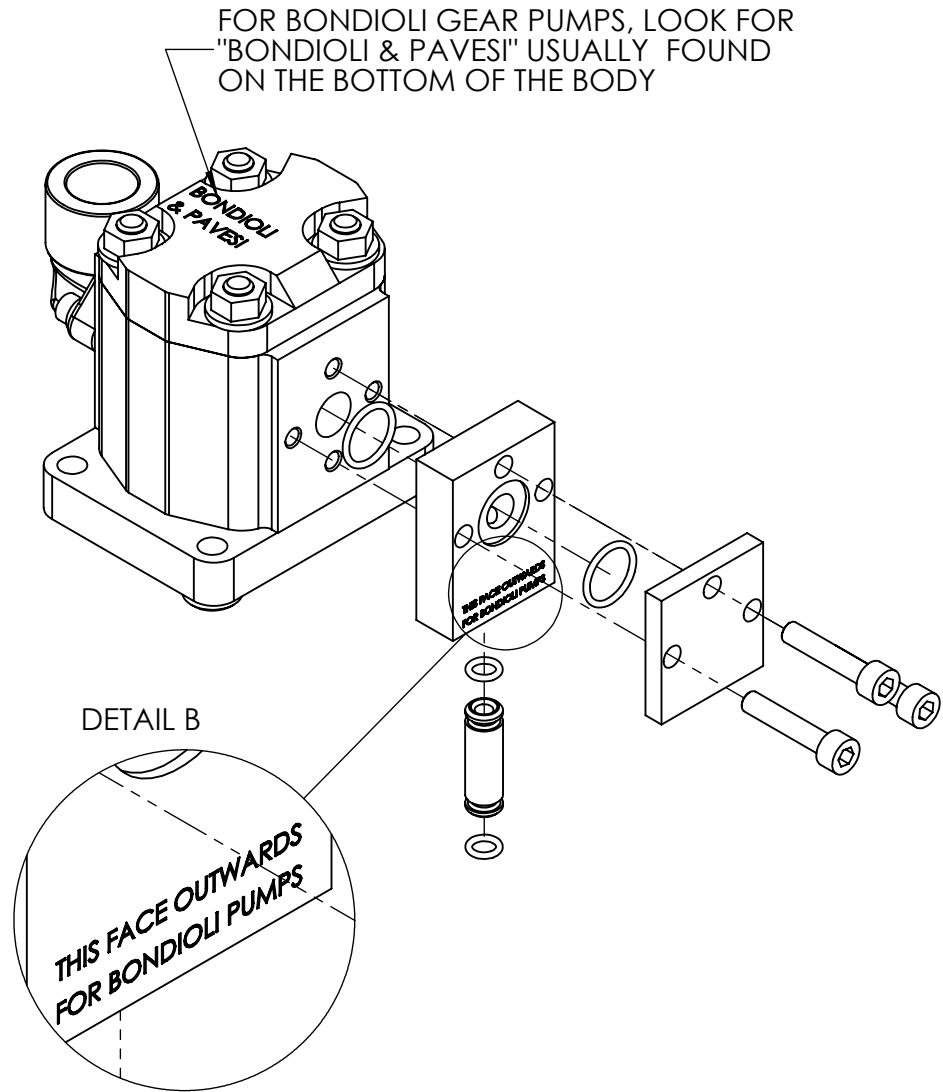
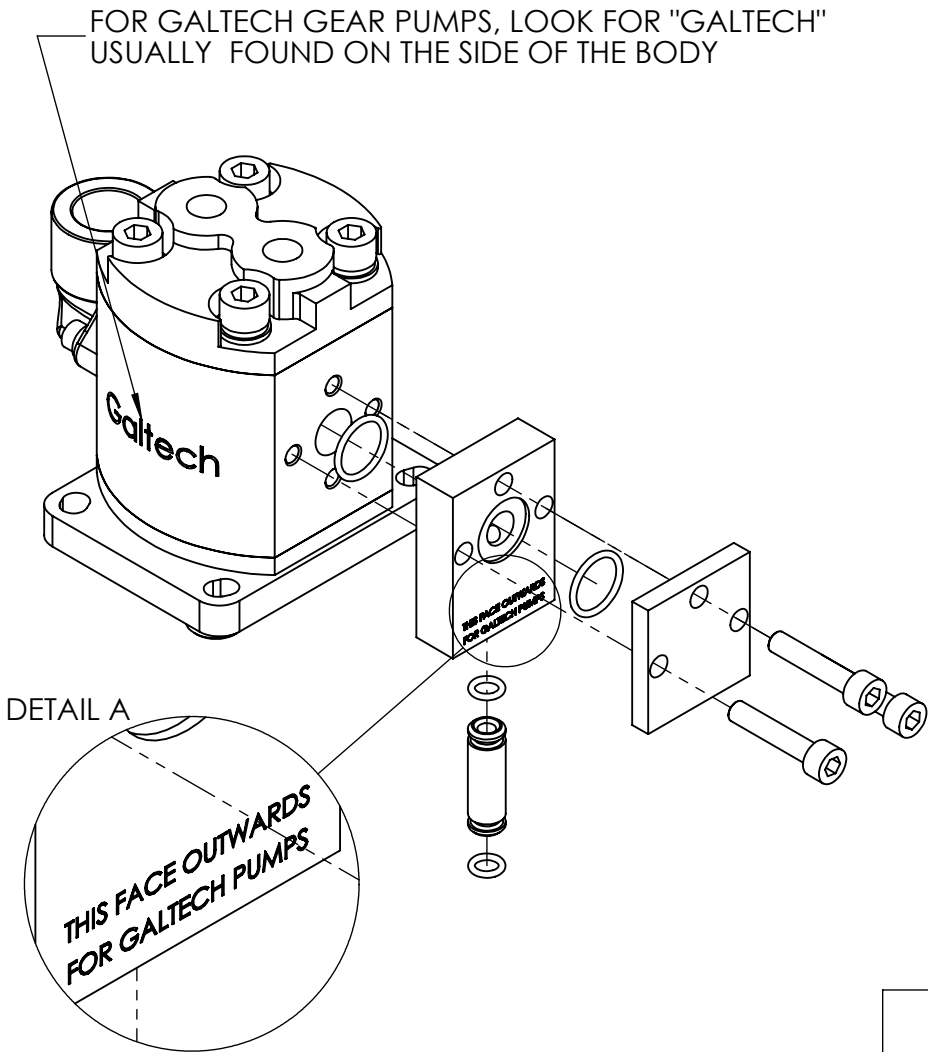
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- THE ORIENTATION OF ITEM NO. 2 (PMC000TM001) IS DETERMINED BY THE BRAND OF THE GP60 GEAR PUMP SUPPLIED (REFER TO SHEET 2 FOR FURTHER DETAILS)
- ITEM NO. 10 (FAS008SP080) ARE TO REPLACE TWO SCREWS (BLC008KC080) ON THE TYPE300-24, PRIOR TO FITTING PMA060GZ001 (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**

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ORIENTATION OF TRANSFER PLATE



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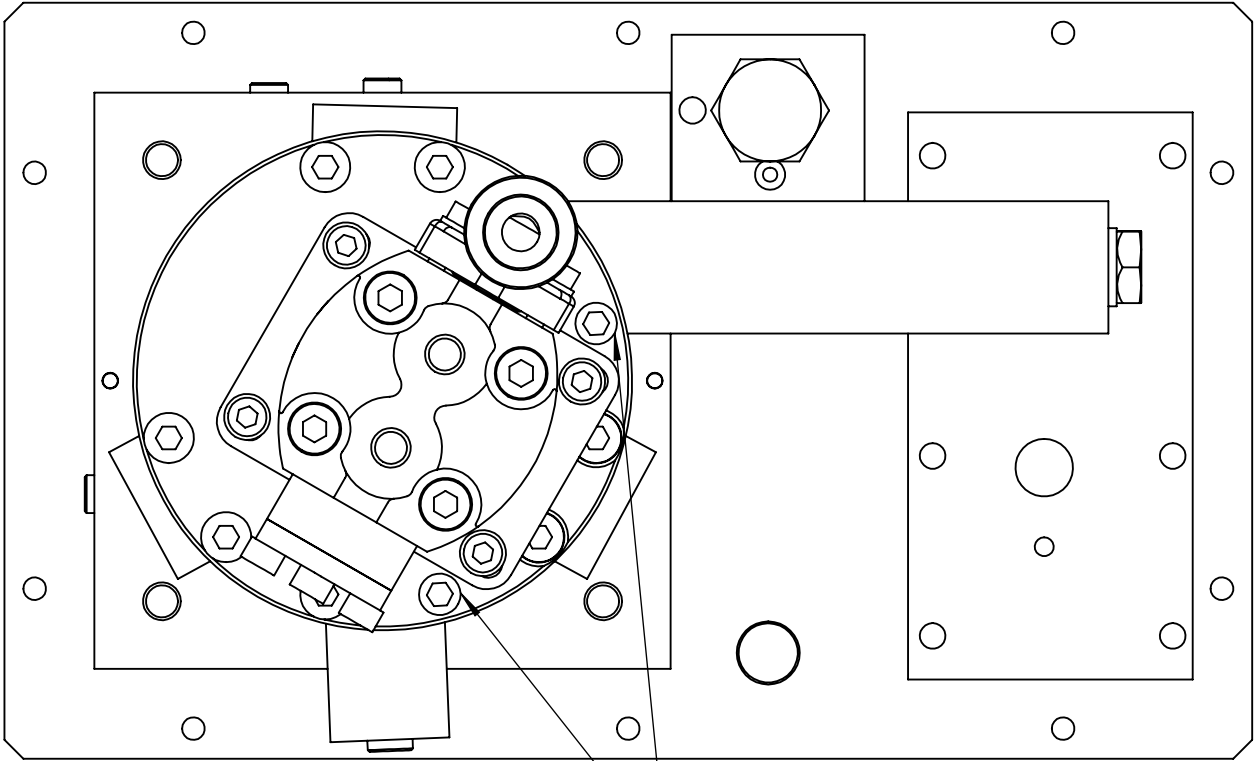
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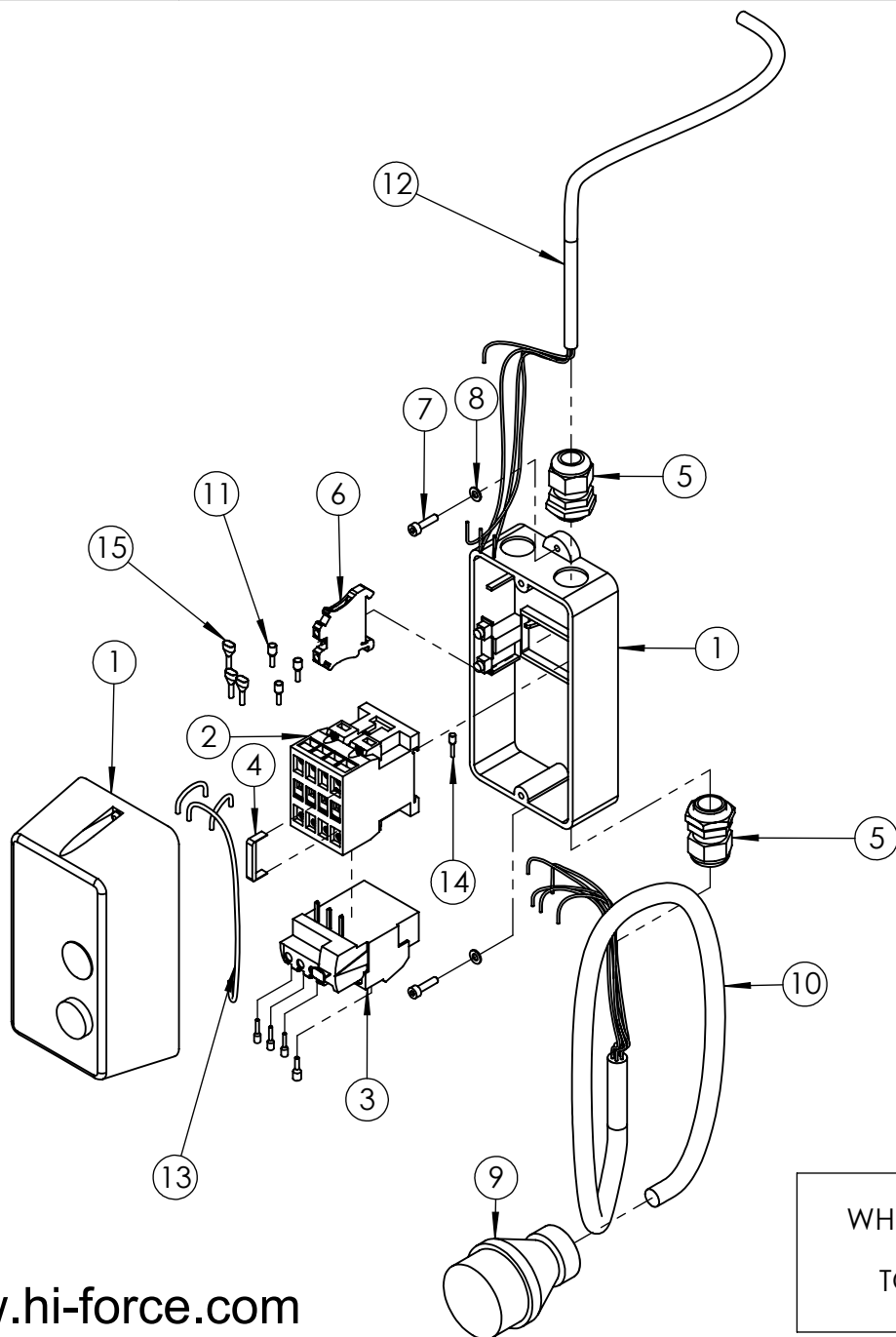
TYPE300-24: BOTTOM VIEW



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

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|----------|-------------|--|------|-------------|----------|
| | | | | | 1 5825 |
| 1 | EMC000EF001 | ENCLOSURE WITH PUSH BUTTONS P1MT | 1 | | 2 |
| 2 | EMC415KE001 | CONTACTOR 415 V | 1 | | 3 |
| 3 | EMC415RD001 | THERMAL OVERLOAD RELAY 4-6 AMPS | 1 | | 4 |
| 4 | EMC110XF001 | BRIDGING BAR | 1 | | 5 |
| 5 | NUC020LS002 | GLAND 6-12MM | 2 | | 6 |
| 6 | EMC000NZ001 | TERMINAL BLOCK | 1 | | 7 |
| 7 | BLC004JD016 | M4 x 16 mm HEX SOCKET CAP HEAD SCREW | 2 | | 8 |
| 8 | WAC004YB000 | M4 WASHER ST | 2 | | 9 |
| 9 | MCC415EP002 | 415V, 32A ELECTRICAL PLUG | 1 | | 10 |
| 10 | CEC150EC001 | 5 CORE CABLE 1.5 mm ² H07RN-F 5G1.5 | 1 | | 11 |
| 11 | CEC250SX001 | BOOTLACE FERRULE (INSULATED) 2.5mm GREY | 4 | | 12 |
| 12 | CEC150DC000 | 4 CORE CABLE 1.5 mm ² H07RN-F 4G1.5 | 1 | | 13 |
| 13 | CEC250AC000 | SINGLE CORE TRI-RATED CABLE 2.5mm ² BLACK H05V2-K / H07V2-K | 1 | | 14 |
| 14 | CEC150SX001 | BOOTLACE FERRULE (INSULATED) 1.5mm | 4 | | 15 |
| 15 | CEC250SX002 | TWIN BOOTLACE FERRULE 2.5 mm ² | 3 | | 16 |
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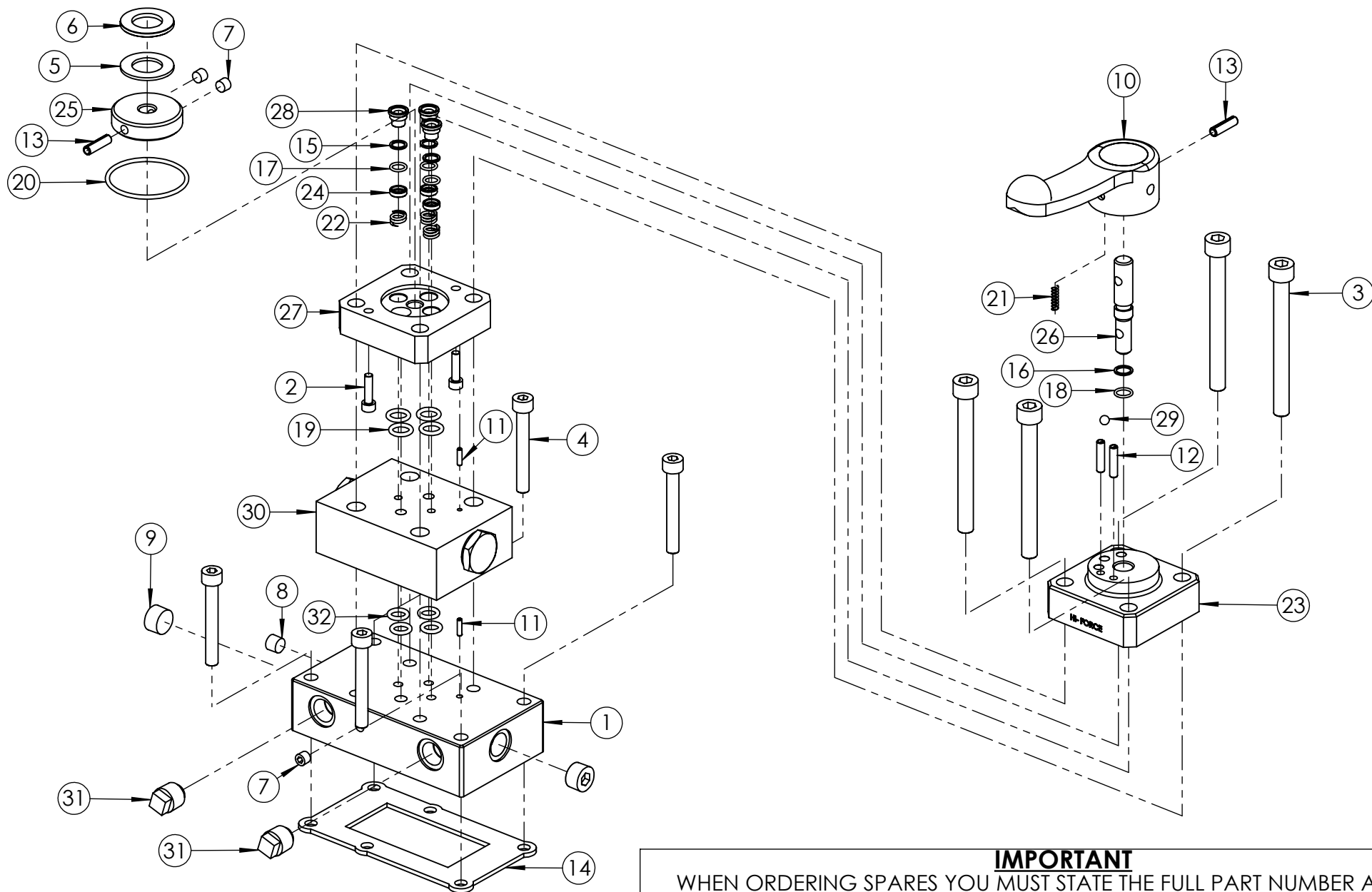
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| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. | SPARE PARTS | SERVICE PARTS |
|----------|-------------|--|------|-------------|---------------|
| 1 | VFC010BF007 | VALVE MOUNTING BLOCK | 1 | | |
| 2 | BLC005HU020 | M5 x 20 mm HEX SOCKET CAP HEAD SCREW | 2 | | |
| 3 | BLC010LC100 | M10 x 100 mm HEX SOCKET CAP HEAD SCREW | 4 | | |
| 4 | BLC008KC060 | M8 x 60 mm HEX SOCKET CAP HEAD SCREW | 4 | | |
| 5 | BSC035NA001 | NEEDLE BEARING | 1 | | |
| 6 | BSC035NA002 | HOUSING WASHER | 1 | | |
| 7 | FPC002PN001 | 1/16" x 7/8" NPT SOCKET PLUG | 3 | | |
| 8 | FPC003PN001 | 1/8" x 3/4" NPT TAPER DRY SEAL PRESS PLUG | 1 | | |
| 9 | FPC010PN002 | 3/8" X 7/8" NPT SOCKET PLUG | 2 | | |
| 10 | HLC012LP002 | HANDLE | 1 | | |
| 11 | PCC003RB006 | Ø3 x 12 mm SELLOCK PIN | 2 | | |
| 12 | PCC005RD002 | Ø5 x 22 mm SPIROL PIN | 2 | | |
| 13 | PCC006RD001 | Ø6 X 22 mm SPIROL PIN | 2 | | |
| 14 | SEC003KT001 | VALVE GASKET | 1 | | ✓ |
| 15 | SEC011BA001 | BACK UP RING | 3 | | ✓ |
| 16 | SEC012BA002 | BACK UP RING | 1 | | ✓ |
| 17 | SEC011RA001 | O-RING - I.D. 8.10 mm, C.S. 1.6 mm, NITRILE 90 | 3 | | ✓ |
| 18 | SEC012RA003 | O-RING - I.D. 9 mm, C.S. 1.50 mm, NITRILE 70 | 1 | | ✓ |
| 19 | SEC016RA002 | O-RING - I.D. 10.77 mm, C.S. 2.62 mm, NITRILE 70 | 4 | | ✓ |
| 20 | SEC049RF001 | O-RING - I.D. 48.90 mm, C.S. 2.62 mm, NITRILE 90 | 1 | | ✓ |
| 21 | SPC005KA001 | SPRING | 1 | | |
| 22 | SPC010CA001 | SPRING | 3 | | |
| 23 | VFC000BD003 | VALVE BODY | 1 | | |
| 24 | VFC000SC001 | SHEAR SEAL COLLAR | 3 | | |
| 25 | VFC000SQ002 | VALVE ROTOR | 1 | | |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. | SPARE PARTS | SERVICE PARTS | REVISION |
|----------|---------------|---|------|-------------|---------------|----------|
| 26 | VFC000SR002 | SPINDLE | 1 | | | 1 5717 |
| 27 | VFC000ST001 | SHEAR SEAL PLATE | 1 | | | 2 |
| 28 | VFC000SU001 | SHEAR SEAL | 3 | | | 3 |
| 29 | BAC006SN000 | Ø6 mm STEEL BALL | 1 | | | 4 |
| 30 | V-8245 | DUAL CHECK VALVE | 1 | | | 5 |
| 31 | BPC010SP004 | 3/8 NPT PLASTIC BLANKING PLUG (RED) | 2 | | | 6 |
| 32 | SEC014RA001 | O-RING - I.D. 9.19mm, C.S. 2.62mm, NITRILE 90 | 4 | | ✓ | 7 |
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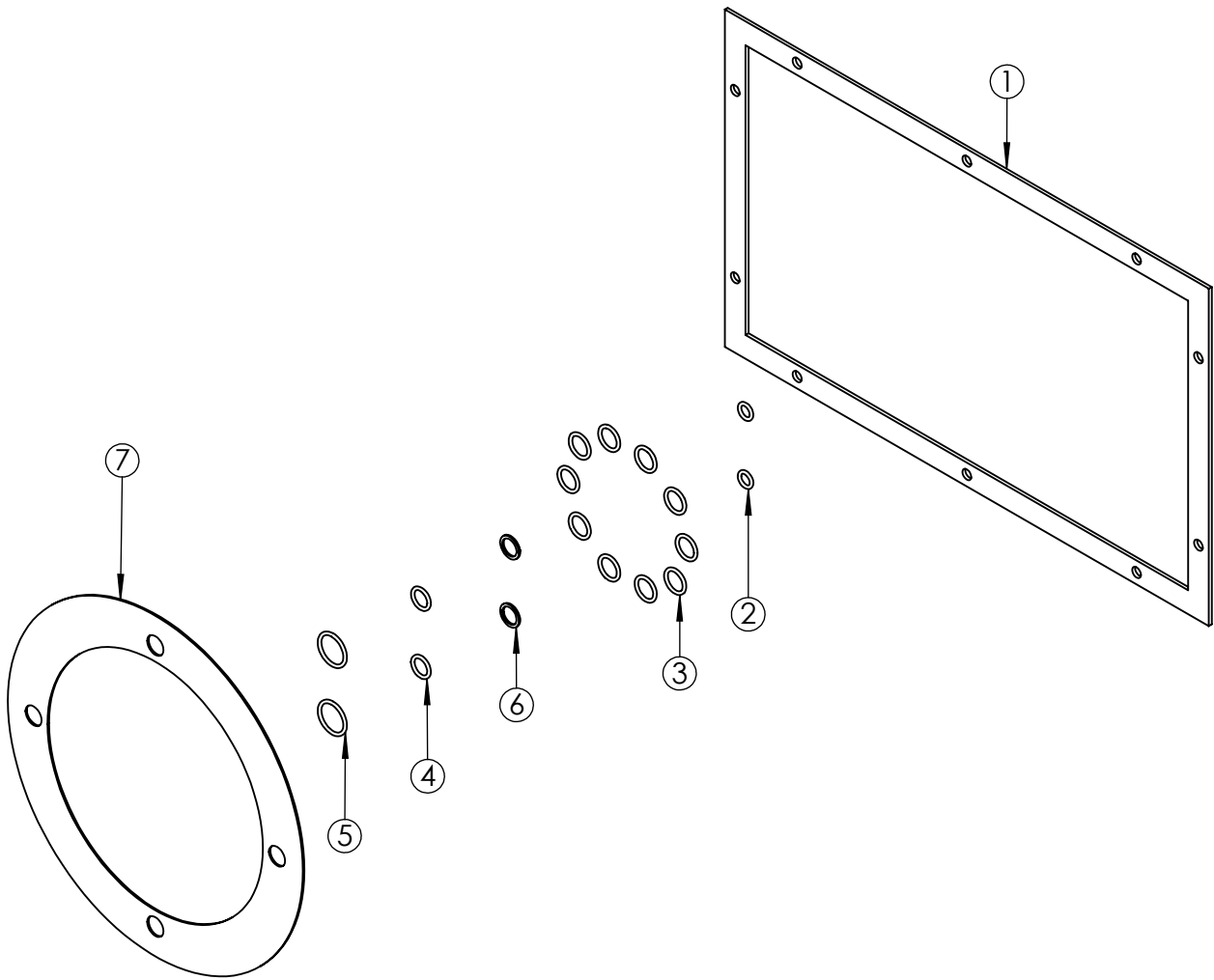
- IF ITEM NO. 30 IS ORDERED AS A SPARE PART, THIS ALREADY COMES WITH ITEM NO. 32. THEREFORE THESE ARE NOT REQUIRED TO BE ORDERED SEPERATELY.

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|----------|-------------|--|------|
| 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 |

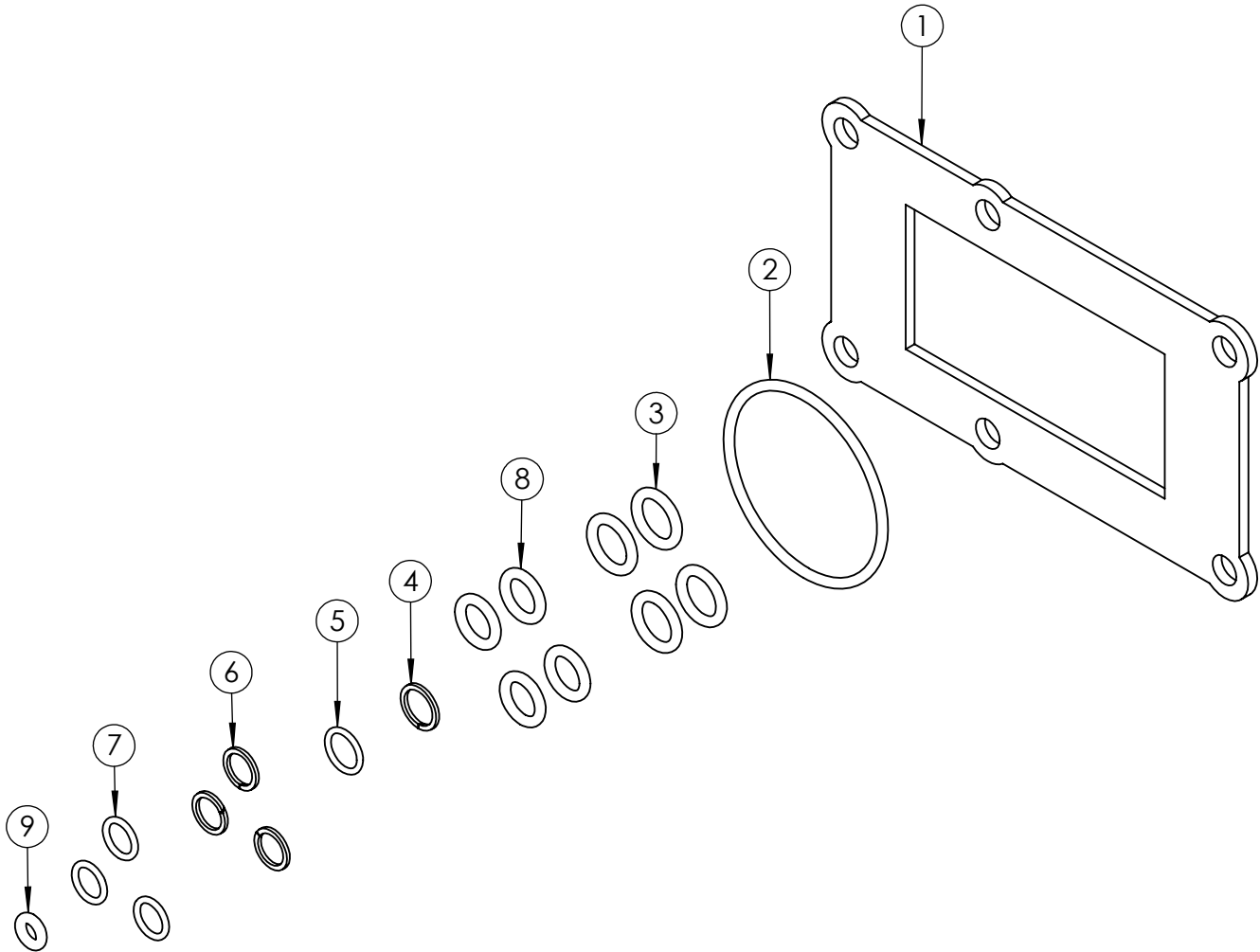
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| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. | REVISION |
|----------|-------------|--|------|----------|
| 1 | SEC003KT001 | VALVE GASKET | 1 | 1 5717 |
| 2 | SEC049RF001 | O-RING - I.D. 48.90 mm, C.S. 2.62 mm, NITRILE 90 | 1 | 2 |
| 3 | SEC016RA002 | O-RING - I.D. 10.77 mm, C.S. 2.62 mm, NITRILE 70 | 4 | 3 |
| 4 | SEC012BA002 | BACK UP RING | 1 | 4 |
| 5 | SEC012RA003 | O-RING - I.D. 9 mm, C.S. 1.50 mm, NITRILE 70 | 1 | 5 |
| 6 | SEC011BA001 | BACK UP RING | 3 | 6 |
| 7 | SEC011RA001 | O-RING - I.D. 8.10 mm, C.S. 1.6 mm, NITRILE 90 | 3 | 7 |
| 8 | SEC014RA001 | O-RING - I.D. 9.19mm, C.S. 2.62mm, NITRILE 90 | 4 | 8 |
| 9 | SEC010RF002 | O-RING - I.D. 4.42 mm, C.S. 2.62 mm, NITRILE 70 | 1 | 9 |
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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.