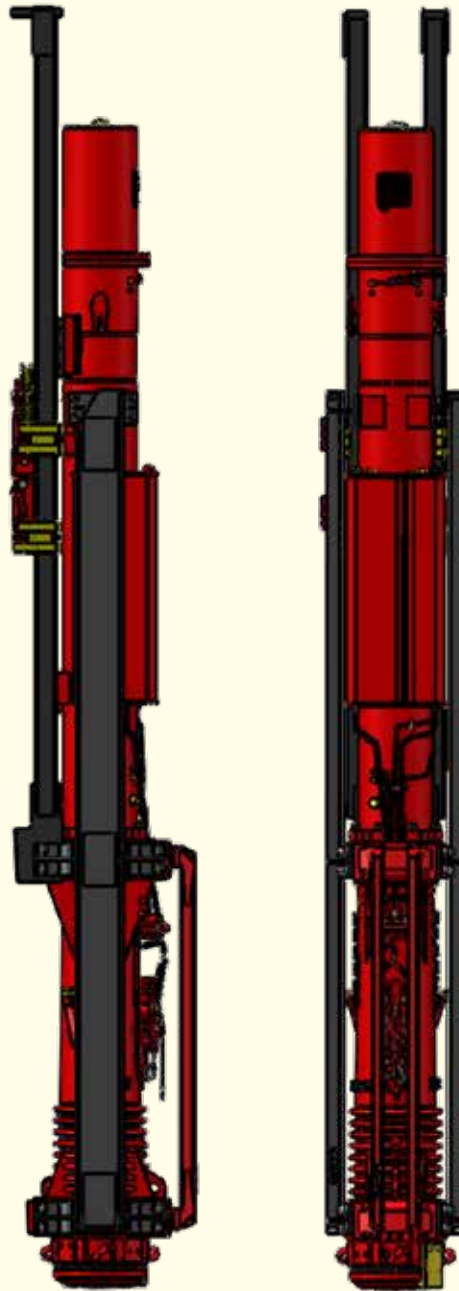




PILECO INC.

Parts Manual

Diesel Pile Hammer **D19-42** *Parts Manual*

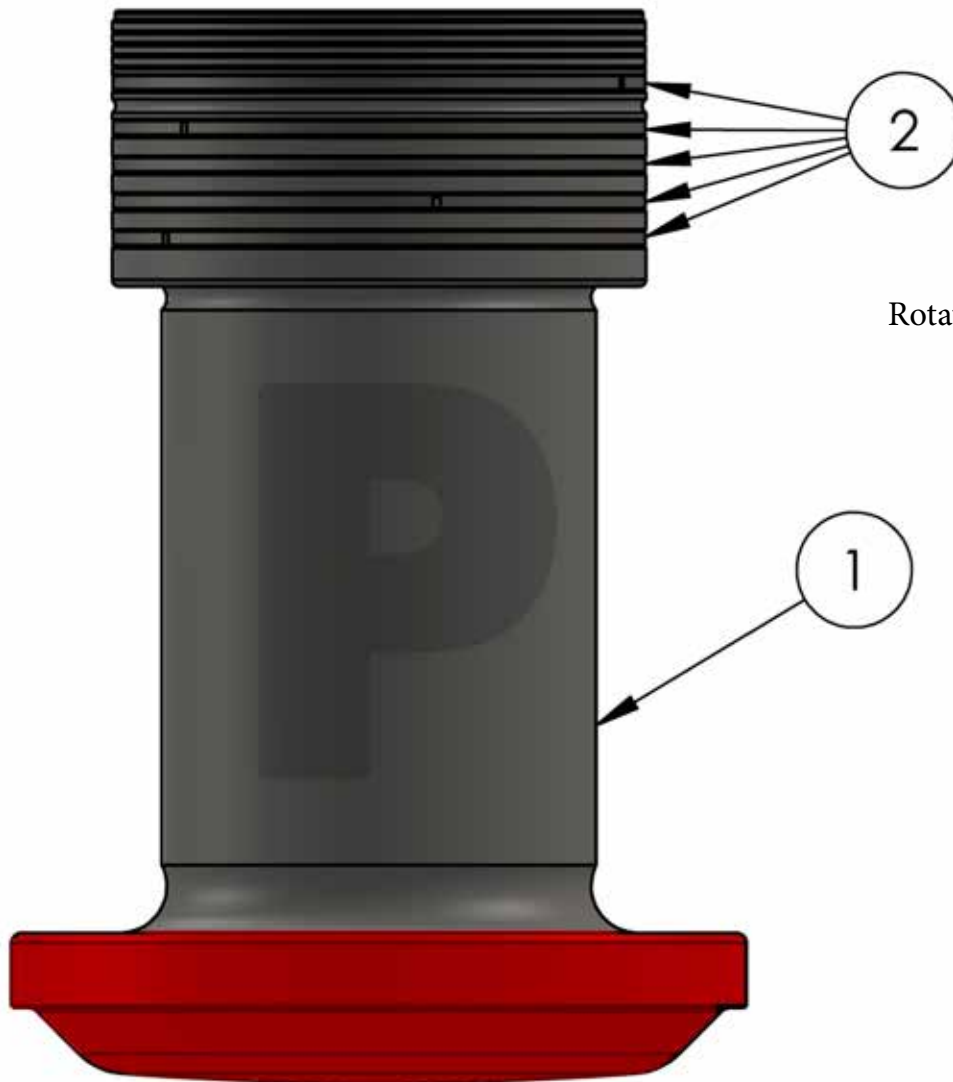


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Impact Block



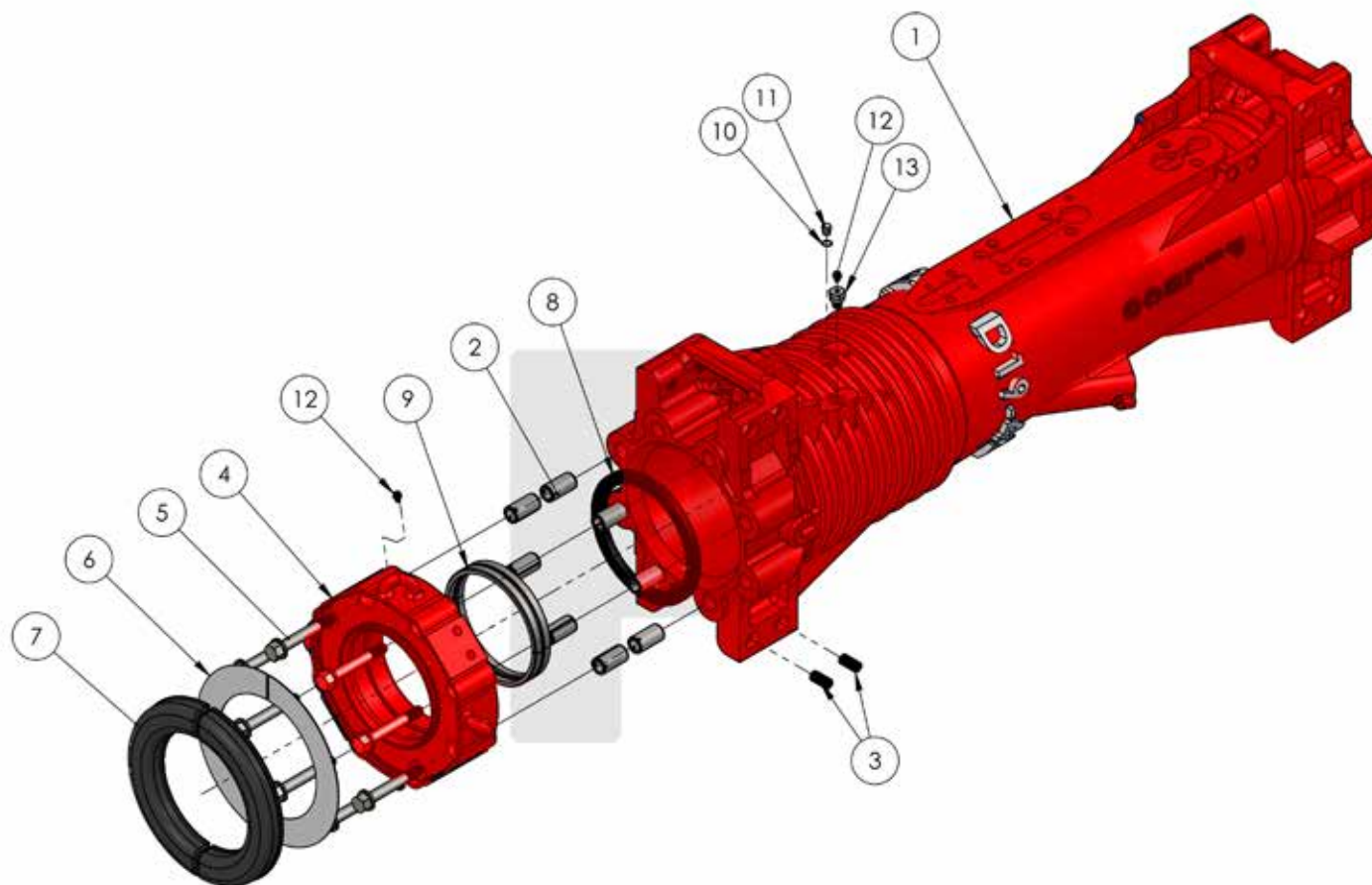
Rotate Rings 120° as stacked

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	100599	IMPACT BLOCK	1
2	100588	PISTON RING	5

Striking Weight (Piston) Complete



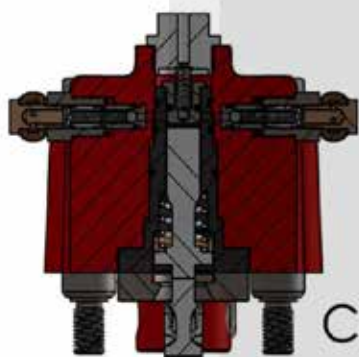
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120943	STRIKING WEIGHT(PISTON)	1
2	100588	PISTON RING	6
3	100587	CATCH PISTON RING	1

**Lower Cylinder Complete**

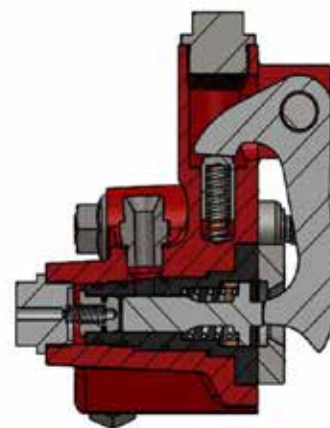
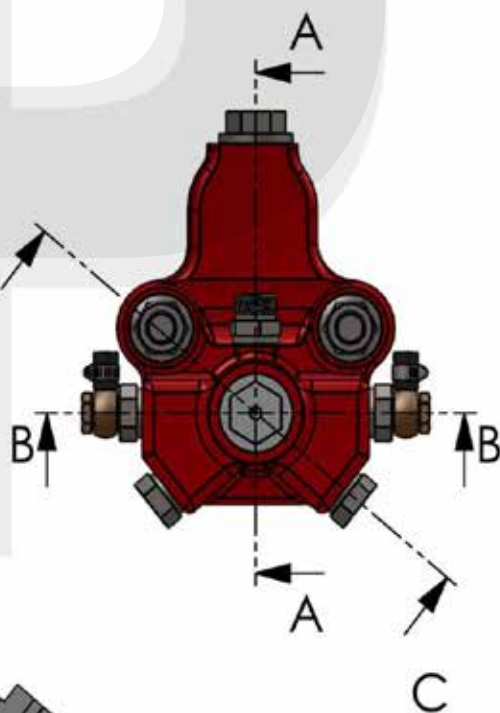
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	100593	LOWER CYLINDER PART D19	1
2	95195	40 X 75 DOWEL PIN	8
3	95582	THREADED INSERT M24	16
4	132537	OUTER END RING	1
5	20174	M24 X 165 HEX BOLT	8
6	203001	RUBBER RING SPACER	1
7	102101	RUBBER RING	1
8	102100	INNER DAMP RING	1
9	102105	INNER END RING	1
10	90002	SEALING RING 18 X 22	2
11	91460	M18 X 1.5 DIN 910 HEX PLUG	2
12	90791	GREASE NIPPLE M10 X 1	2
13	22592	REDUCER	1



Lube Pump

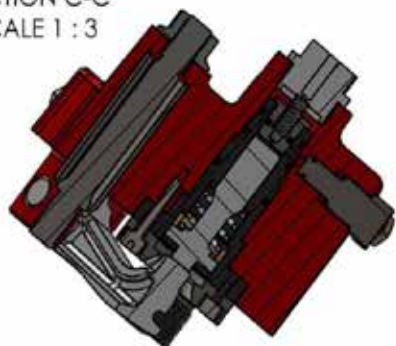


SECTION B-B
SCALE 1 : 3



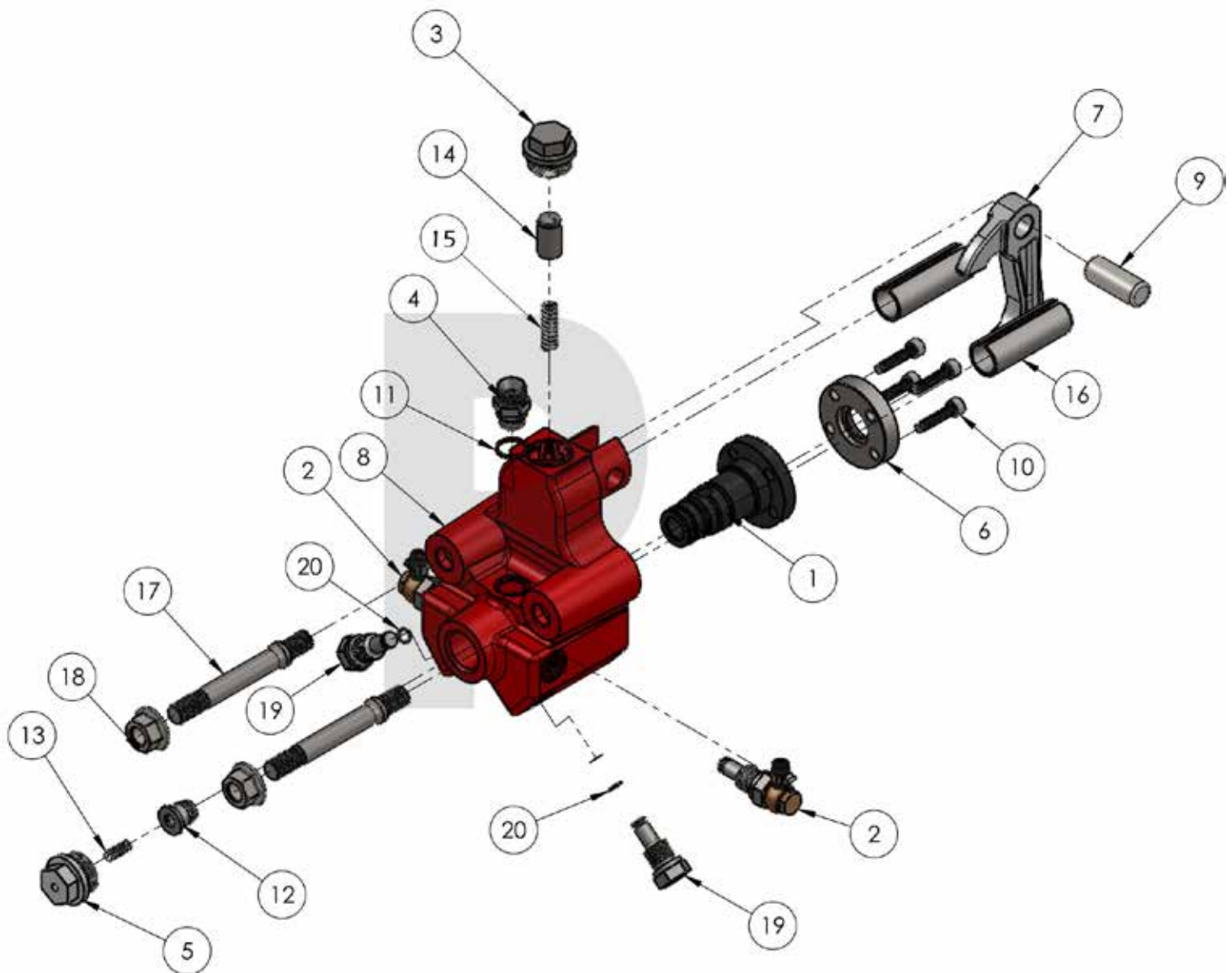
SECTION A-A
SCALE 1 : 3

SECTION C-C
SCALE 1 : 3





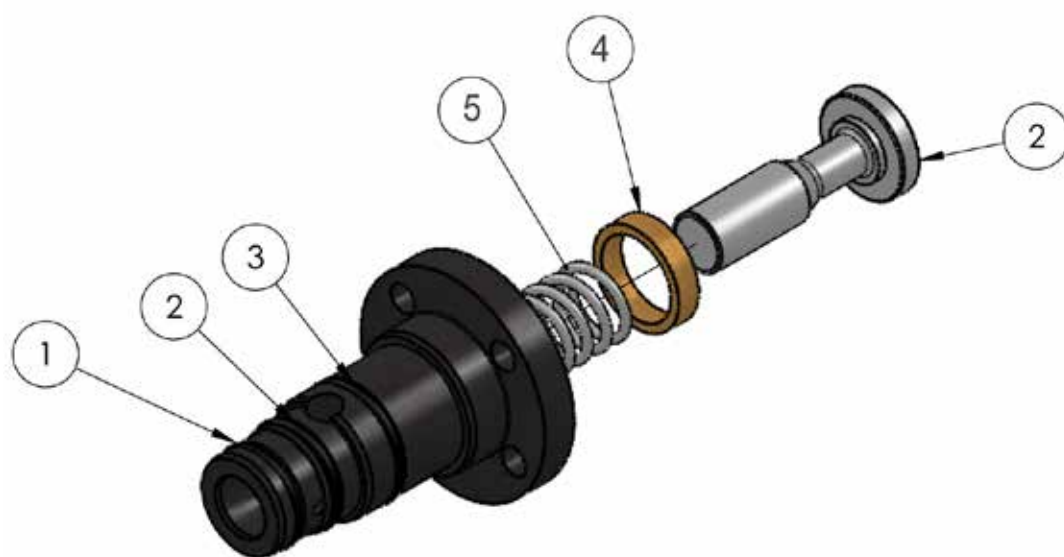
**Lube Pump
Complete**



Lube Pump Complete continued.....

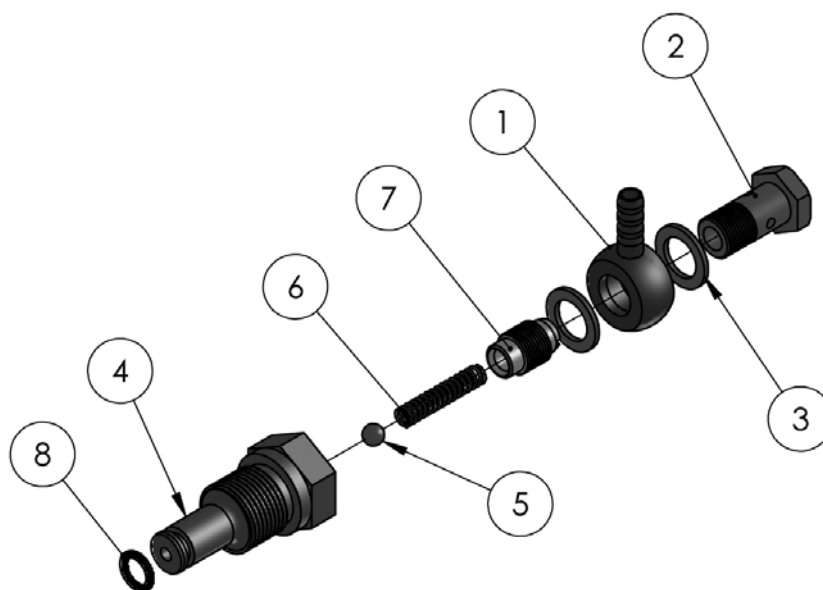
**Lube Pump
Complete**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	67279	CYLINDER COMPLETE	1
2	108317	PRESSURE VALVE COMPLETE	2
3	91976	PLUG SCREW	1
4	67290	ADAPTER	1
5	108311	PLUG SCREW	1
6	67282	WASHER	1
7	22081	LUBE PUMP LEVER	1
8	108315	LUBE PUMP BODY	1
9	22082	PUMP LEVER PIN	1
10	90937	8-1.25MM X 35 SOCKET HEAD CAPSCREW	4
11	92031	SEALING RING A20 X 24	1
12	67284	PISTON COMPLETE	1
13	190479	PRESSURE SPRING 7.3 X 29.4 X 1.2	1
14	22090	SLEEVE	1
15	22089	PRESSURE SPRING 10 X 43 X 2	1
16	94315	DOWEL PIN 28 X 80 DIN 7346	2
17	20189	PUMP STUD M16	2
18	94722	M16 WASHER NUT	2
19	108316	PLUG SCREW	2
20	97855	O RING 8 X 2	1

**Lube Pump Cylinder
Complete**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	205020	O RING 24 X 3	1
2	91357	O RING 26 X 3	1
3	92952	O RING 30 X 3	1
4	67283	RING	1
5	97325	PRESSURE SPRING 22 X 52 X 2, 8	1

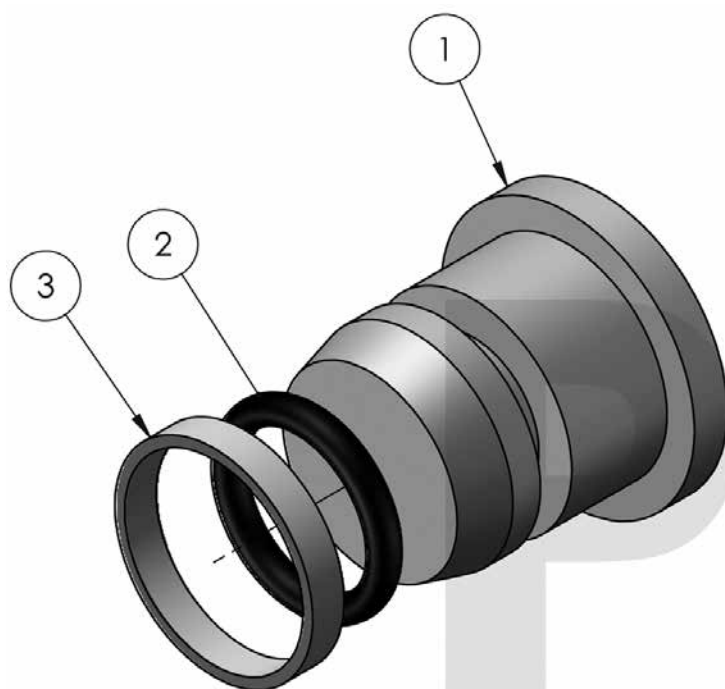
Pressure Valve Complete



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	97949	RING NIPPLE	1
2	97948	HOLLOW SCREW A6 DIN 7623-6.8	1
3	91417	SEALING RING A12 X 15.5 DIN 7603-CU	2
4	108319	ADAPTER	1
5	90307	BALL 6MM DIN 5401	1
6	190005	PRESSURE SPRING 5 X 36 X 0.8	1
7	104679	PLUG SCREW	1
8	97855	8 X 2 O-RING	1

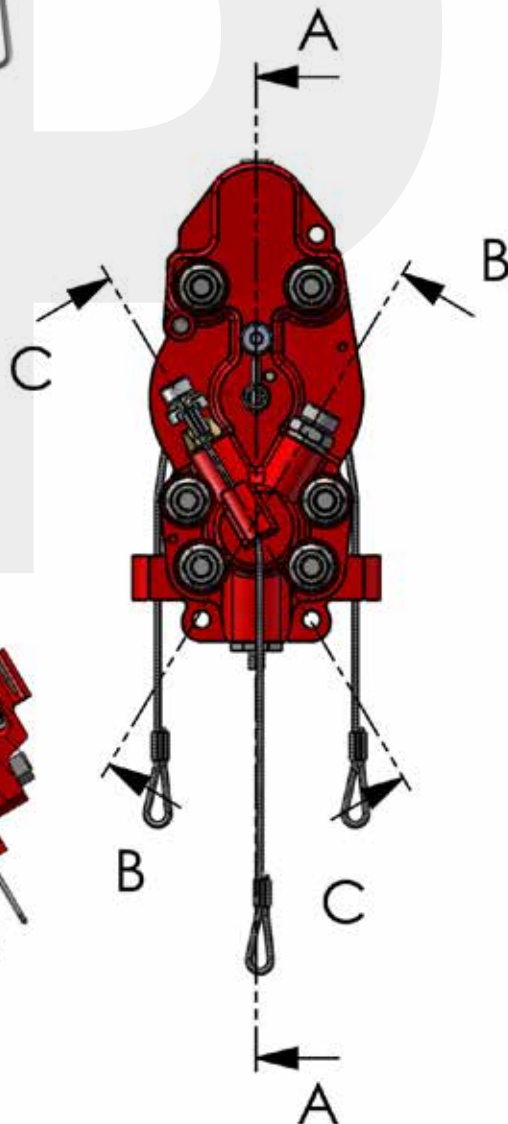
**SOLD
TOGETHER**

Piston Complete

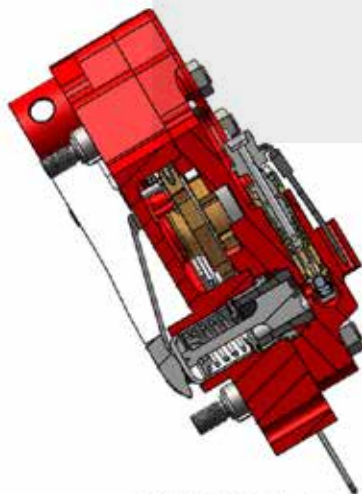
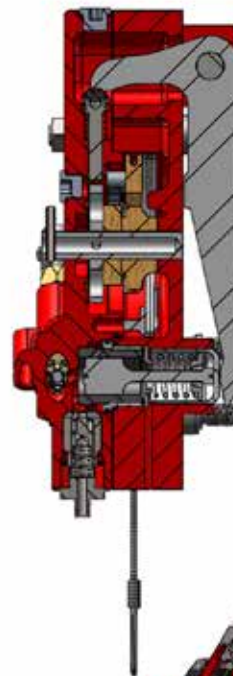


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	67285	PISTON	1
2	97326	O RING	1
3	97326	SLIP RING	1

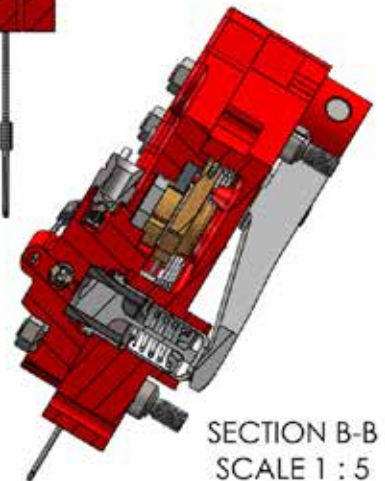
Manual Delivery Fuel Pump



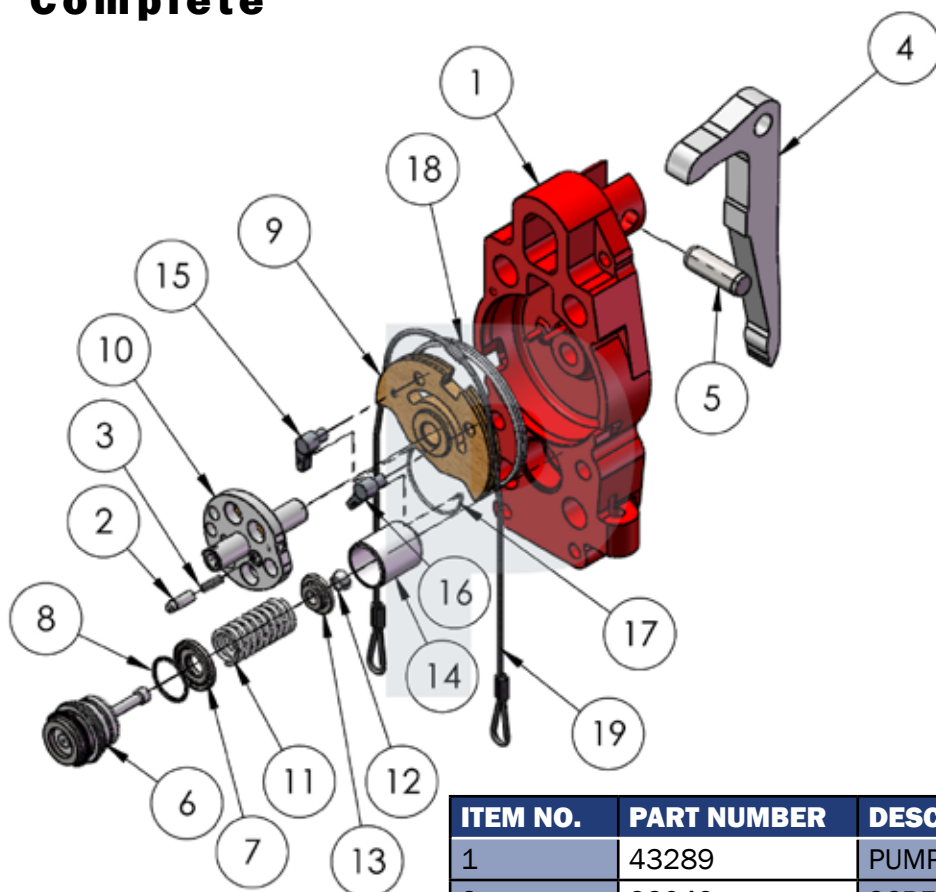
SECTION A-A
SCALE 1 : 5



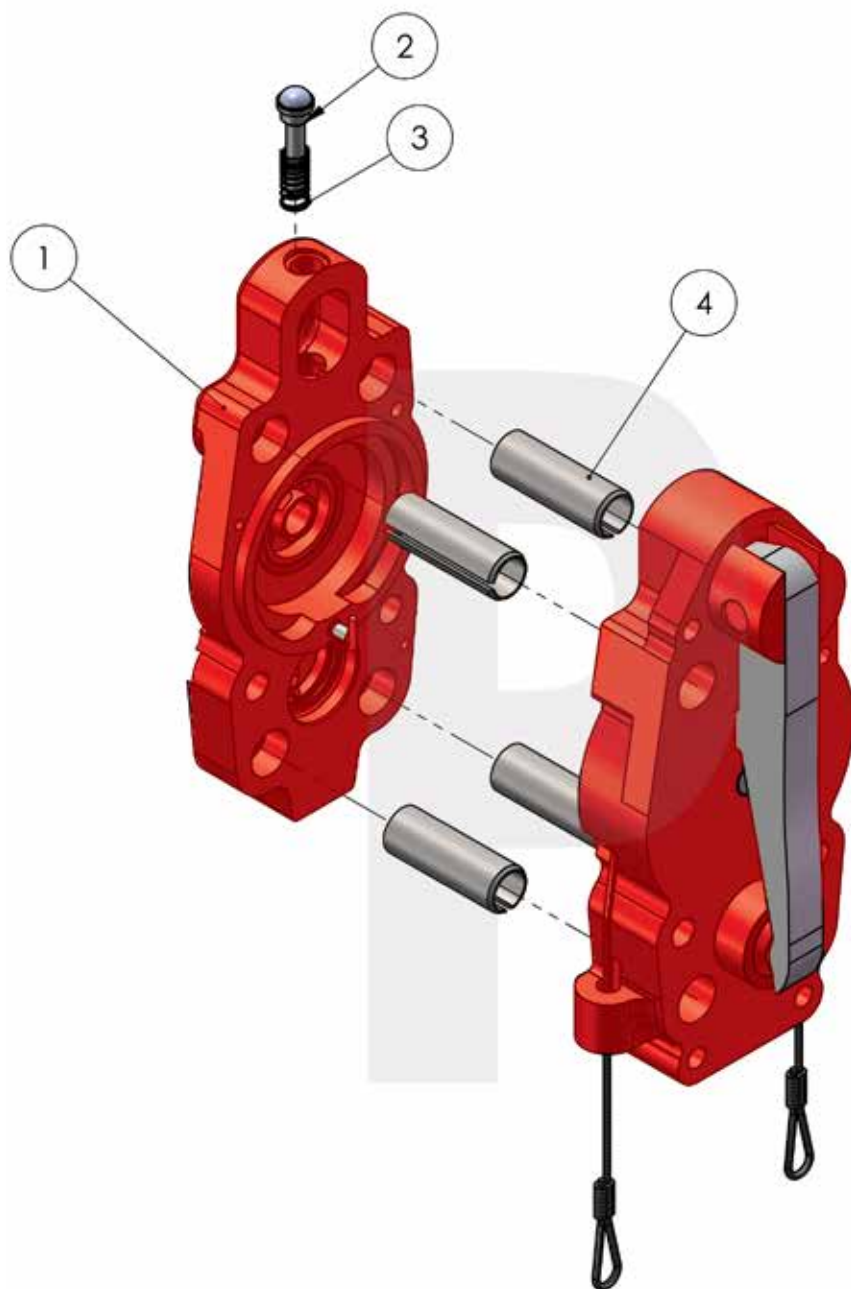
SECTION C-C
SCALE 1 : 5



SECTION B-B
SCALE 1 : 5

**Variable Delivery Fuel Pump
Complete**

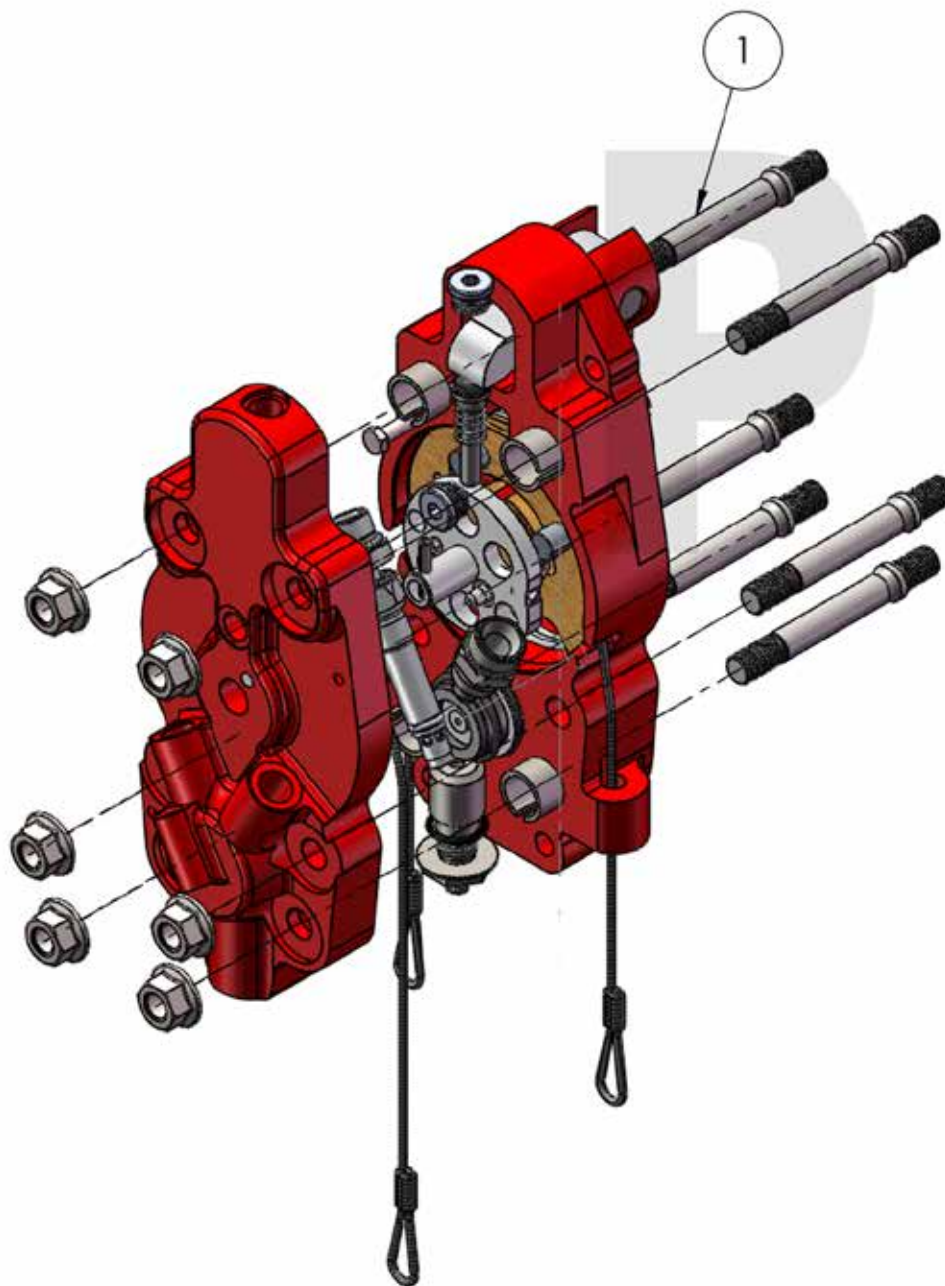
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	43289	PUMP BODY	1
2	22049	SCREEN PIN	1
3	22044	PRESSURE SPRING 5.5 X 20 X 1.2	1
4	41869	PUMP LEVER	1
5	22043	PUMP LEVER PIN	1
6	44015	D19 PUMP ELEMENT 19MM	1
7	43994	HOLDER RING	1
8	92996	ROUND SEALING RING 35 X 2.5	1
9	22040	ROPE DISC	1
10	43308	SWITCH SHAFT	1
11	22060	PRESSURE SPRING 28 X 67.2 X 3.5	1
12	22059	CONICAL RING 2 PCS	1
13	22058	SPRING RETAINING COLLAR	1
14	43287	GUIDE SLEEVE	1
15	22051	CAM	1
16	22052	CAM	1
17	22245	SPRING	1
18	22062	SWIVEL SPRING	1
19	17546	REGULATION ROPE	1

**Variable Delivery Fuel Pump
Complete**

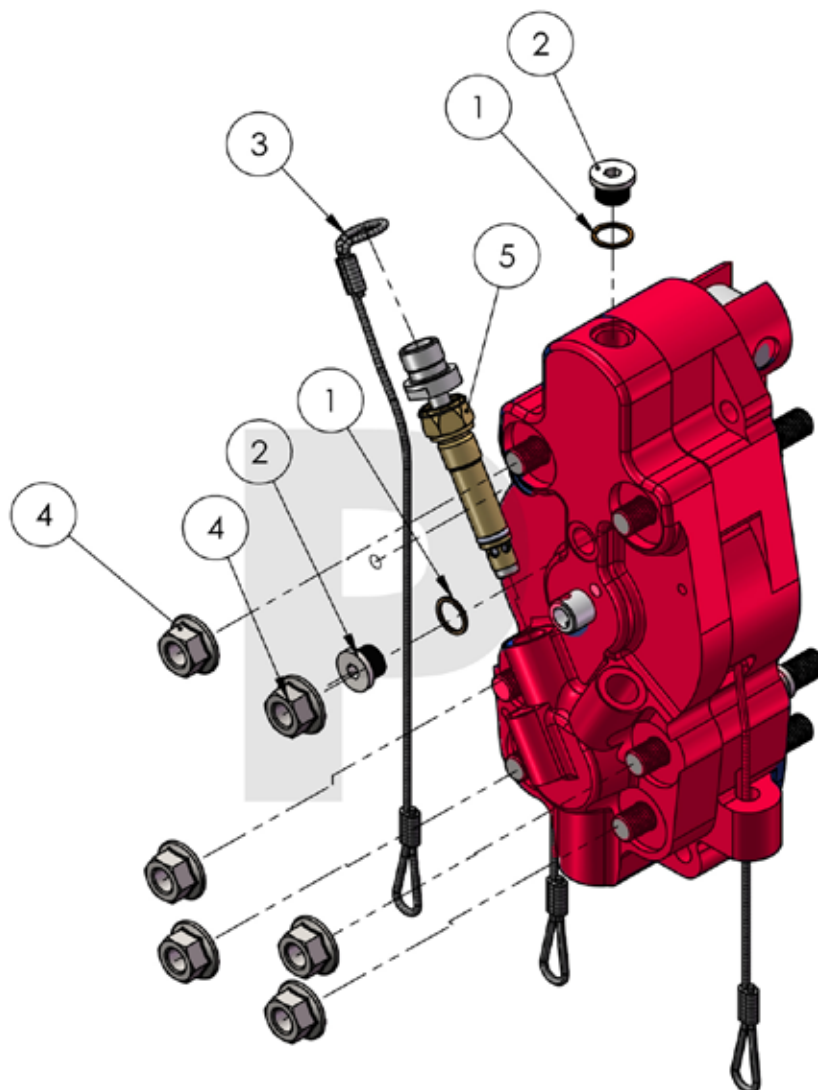
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	43291	PUMP COVER	1
2	62125	PRESSURE PIECE	1
3	22046	PRESSURE SPRING	1
4	94315	DOWEL PIN 28 X 80	4



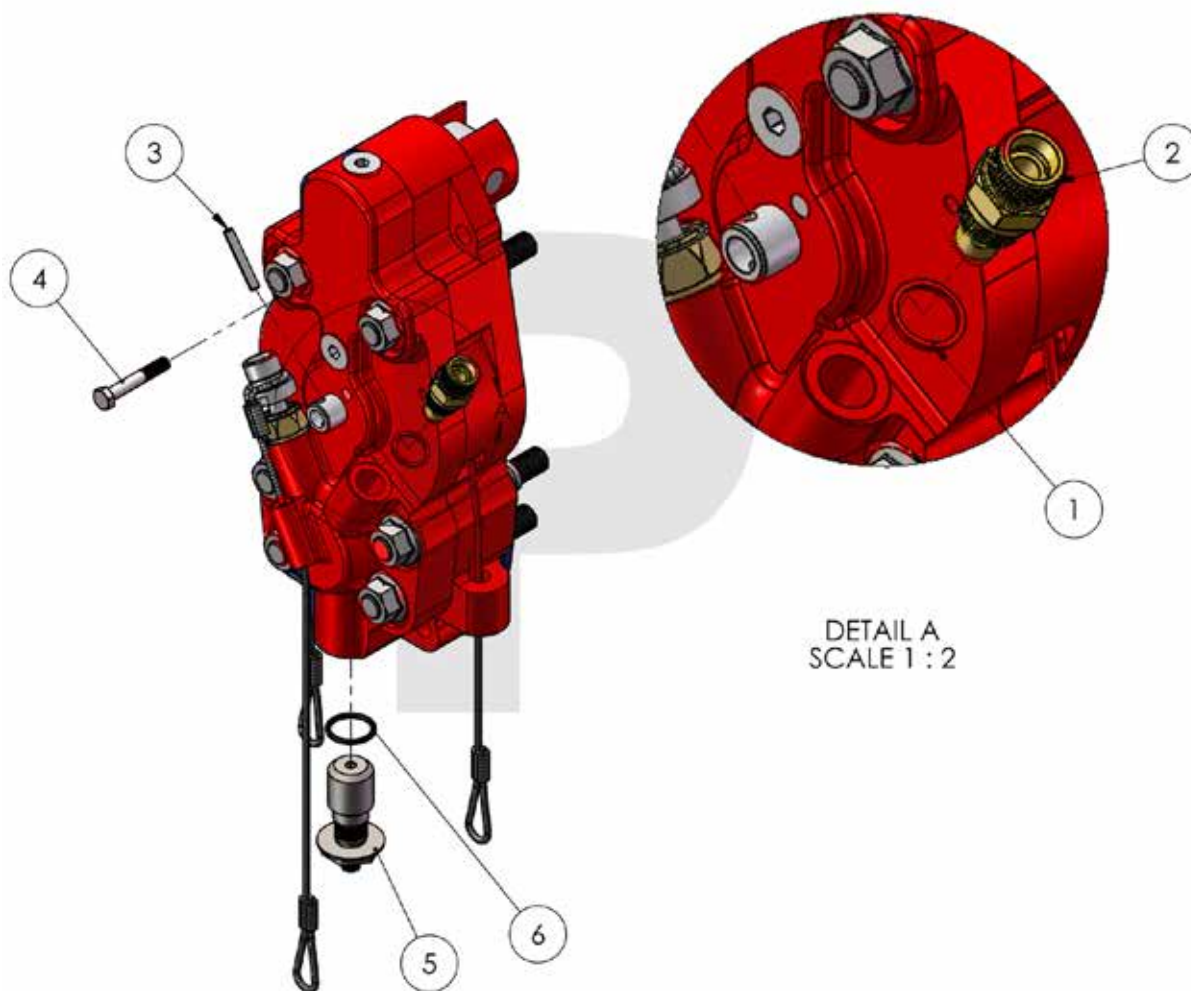
**Variable Delivery Fuel Pump
Complete**



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	20189	PUMP STUD M16	6

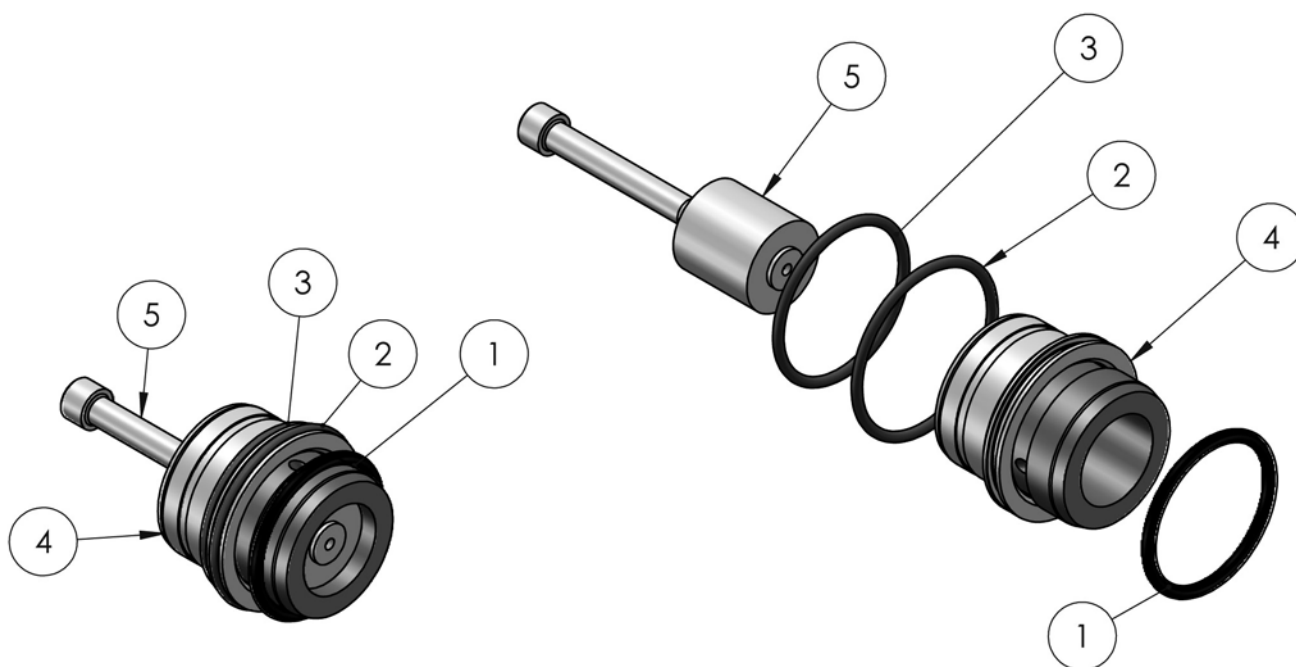
**Variable Delivery Fuel Pump
Complete**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	90002	SEALING RING A18 X 22	2
2	93055	PLUG SCREW M18 X 1.5	2
3	17546	REGULATING ROPE	1
4	94722	M16 WASHER NUT	6
5	41868	STOP VALVE COMPLETE	1

**Variable Delivery Fuel Pump
Complete**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	92031	SEALING RING A20 X 24	1
2	41863	SUCTION VALVE	1
3	90150	DOWEL PIN 6 X 40	1
4	93456	LOCKING SCREW M8 X 50	1
5	43296	CHECK NON-RETURN VALVE COMPLETE	1
6	91296	O-RING 22 X 3	1

19MM Pump Element Complete



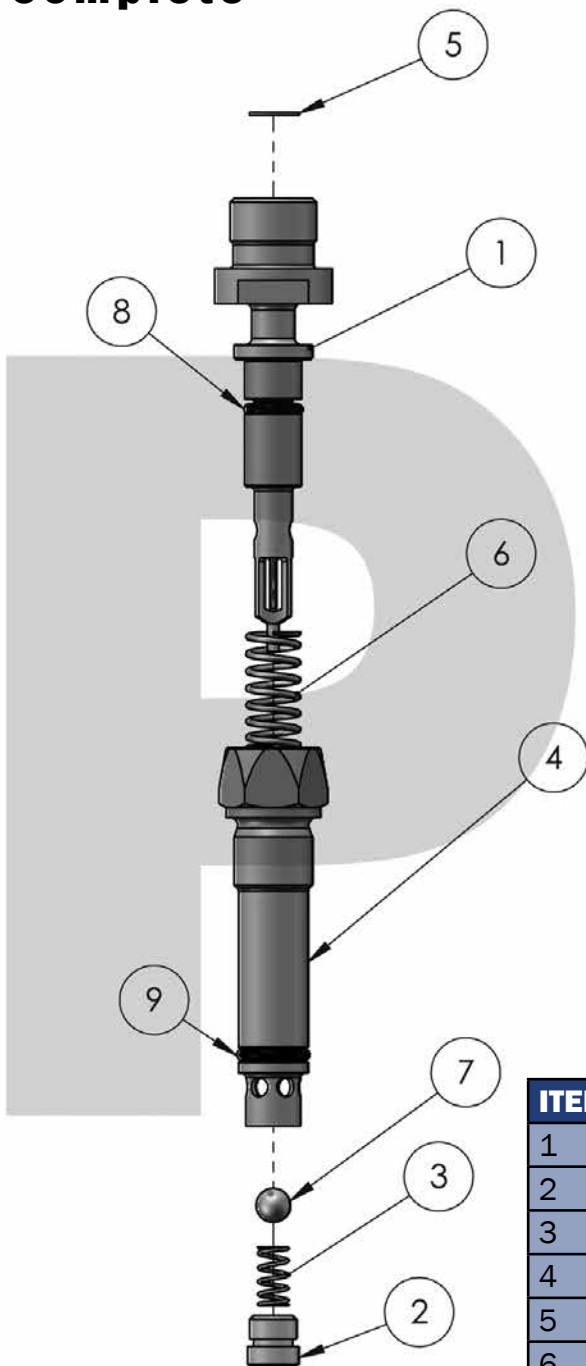
Sold as one complete unit!

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	95933	O-RING 42 X 3	1
2	91322	O-RING 44 X 3	1
3	91339	O-RING 40 X 2.5	1
4	44015	19MM ELEMENT BODY	1
5	44015	19MM ELEMENT PLUNGER	1


TOGETHER

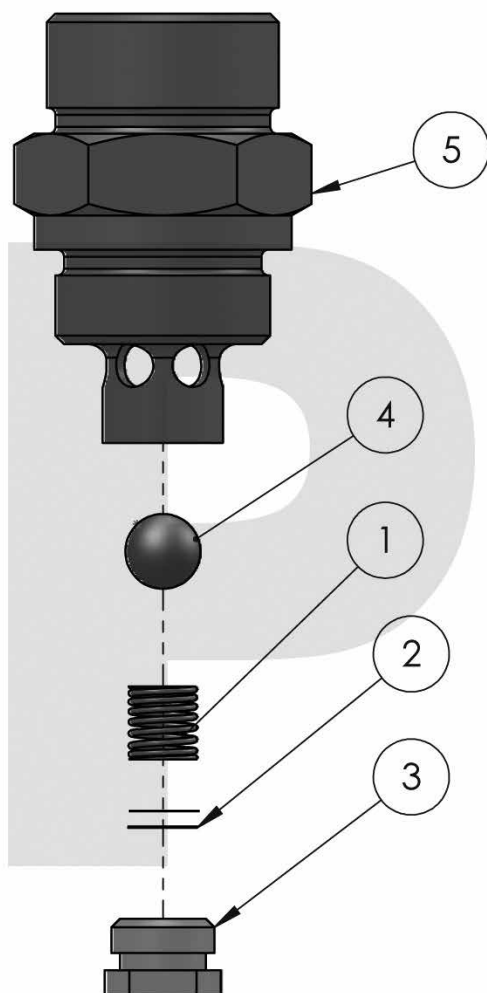


**Stop Valve
Complete**



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	43138	VALVE PISTON	1
2	22021	THREADED PLUG	1
3	98929	PRESSURE SPRING	1
4	43130	VALVE SCREW	1
5	95768	CIRCLIP 20 X 1	1
6	43279	PRESSURE SPRING	1
7	98511	BALL 8.731MM	1
8	91894	O-RING 8 X 3	1
9	94316	O-RING 12 X 3	1

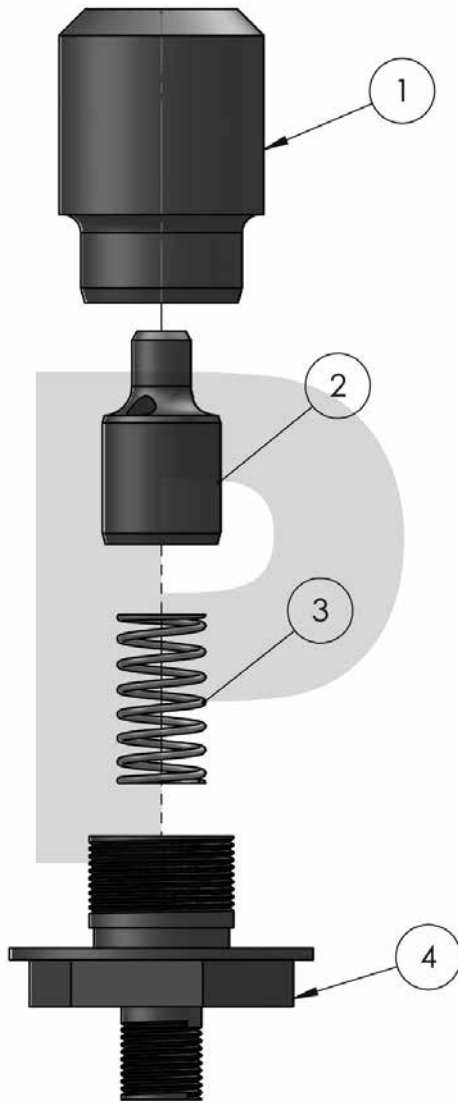
Suction Valve Complete



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	22022	PRESSURE SPRING 7.3 X 8 X 0.7	1
2	22023	WASHER	2
3	41862	THREADED PLUG	1
4	98511	BALL 8.731MM	1
5	41861	SLEEVE	1

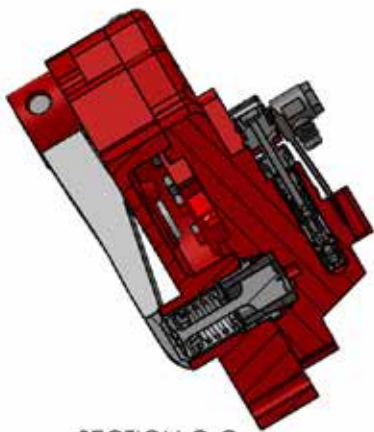
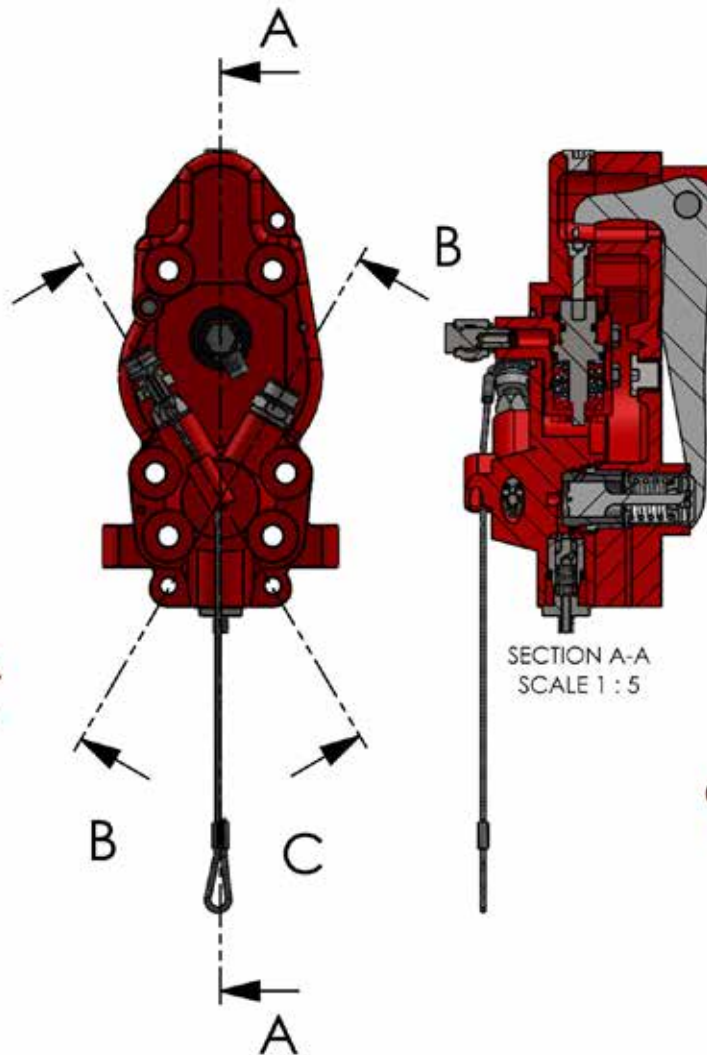


Check Non-Return Valve Complete

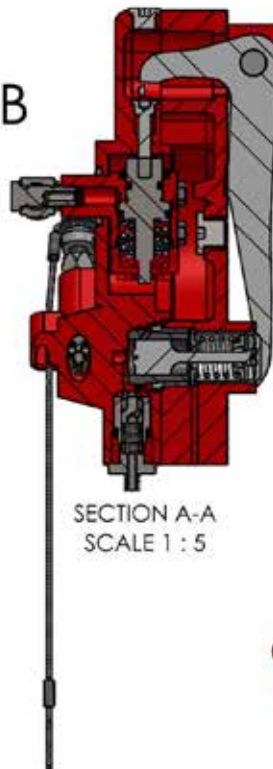


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	43297	HOUSING	1
2	43299	VALVE PISTON	1
3	22034	PRESSURE SPRING	1
4	43298	RING TYPE NIPPLE	1

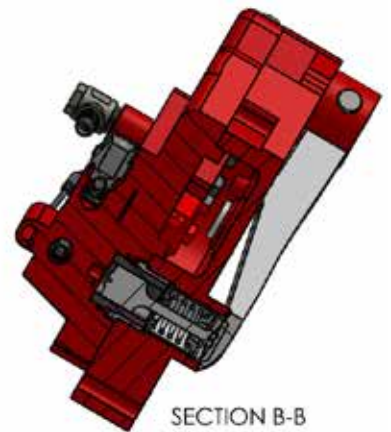
Hydraulic Delivery Fuel Pump



SECTION C-C
SCALE 1 : 5



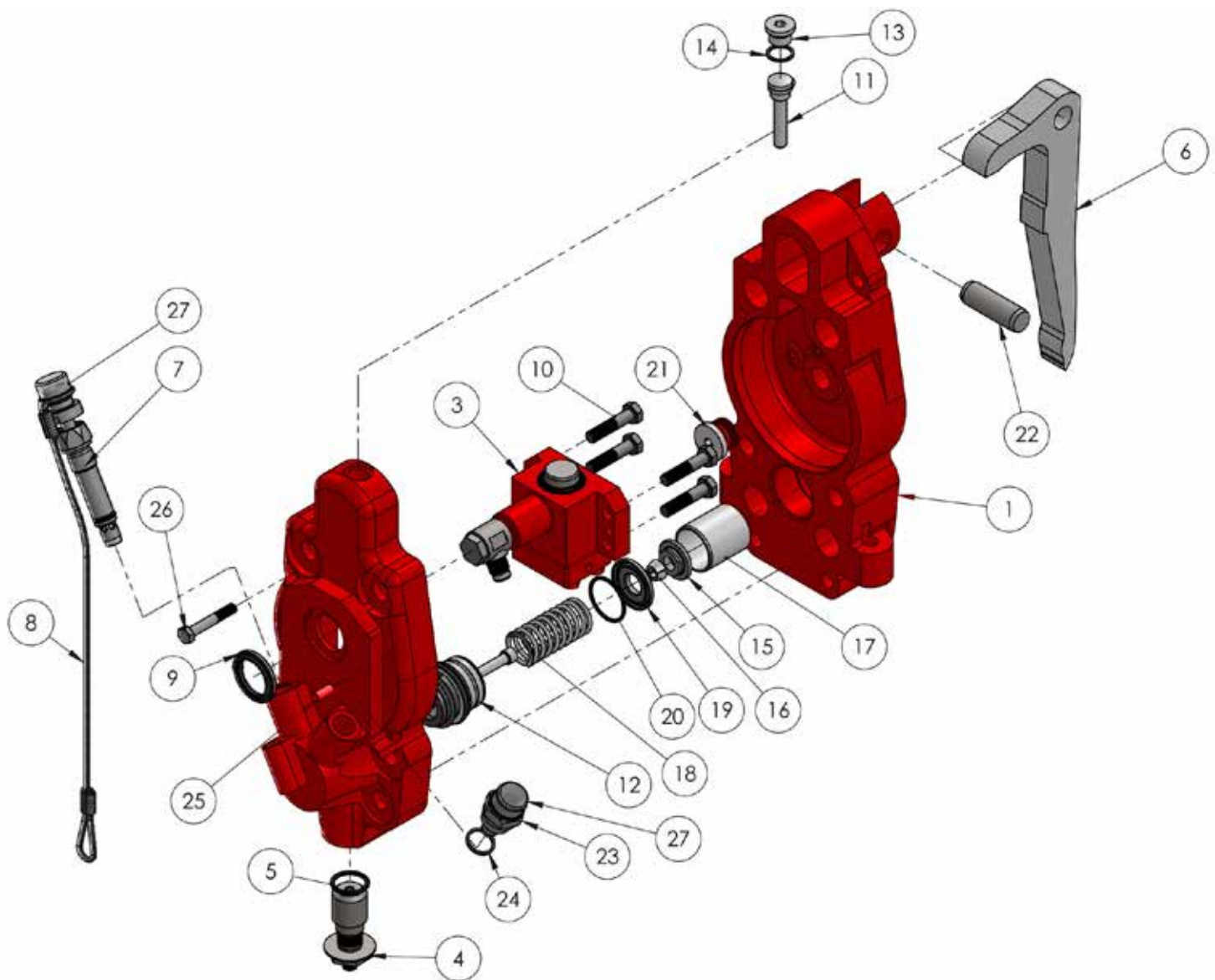
SECTION A-A
SCALE 1 : 5



SECTION B-B
SCALE 1 : 5



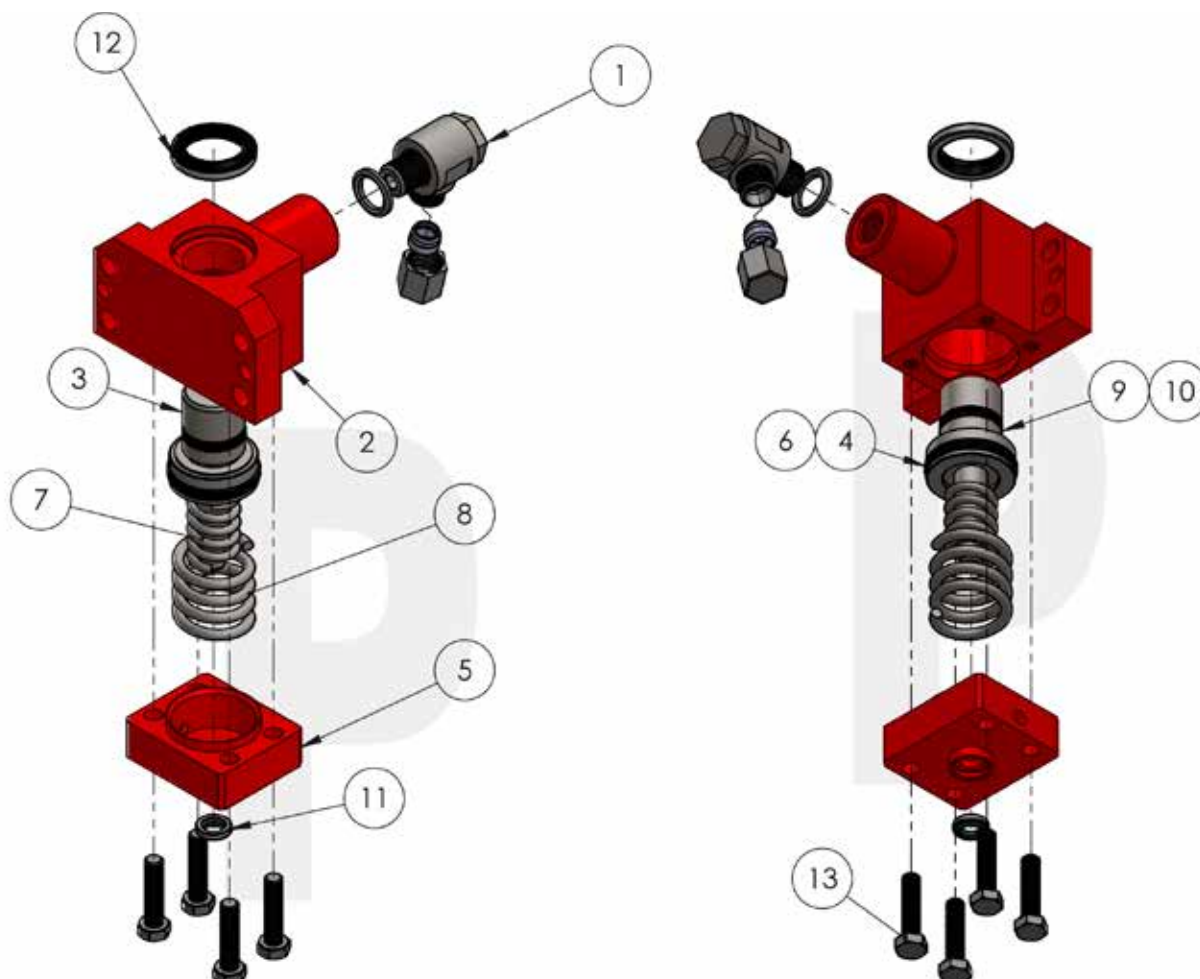
Hydraulic Variable Delivery Fuel Pump Complete



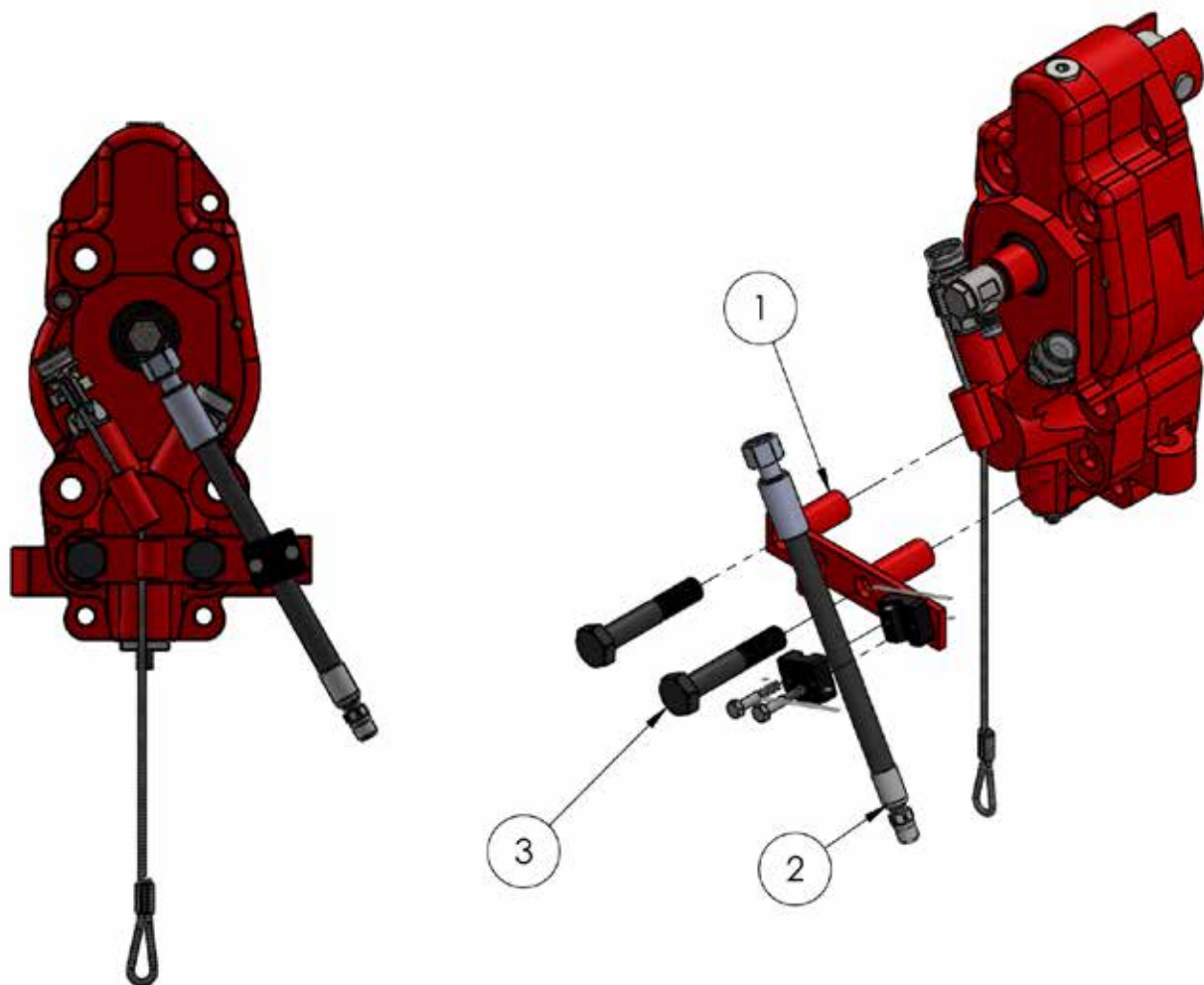
Hydraulic Variable Fuel Pump Continued.....

**Hydraulic Variable Delivery Fuel Pump
Complete**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	205503	PUMP BODY	1
2	205508	PUMP COVER	1
3	122446-C	FUEL PUMP CONTROL COMPLETE	1
4	43296	CHECK NON RETURN VALVE COMPLETE	1
5	91296	O RING 22 X 3	1
6	41869	PUMP LEVER	1
7	41868	STOP VALVE COMPLETE	1
8	17546	REGULATING ROPE	1
9	205507	DUST RING	1
10	93414	10-1.5 X 30 HEX HEAD CAPSCREW 8.8	4
11	205501	PRESSURE PIECE	1
12	44015	D19 PUMP ELEMENT 19MM	1
13	93055	PLUG SCREW 18 X 1.5	1
14	90002	SEALING RING 18 X 22	1
15	22058	SPRING RETAINING COLLAR	1
16	22059	CONICAL RING 2 PCS	1
17	43287	GUIDE SLEEVE	1
18	22060	PRESSURE SPRING 28 X 67.2 X 3.5	1
19	43995	HOLDER RING	1
20	92996	ROUND SEALING RING 35 X 2.5	1
21	91885	PLUG SCREW M26 X 1.5	1
22	22043	PIN	1
23	41863	SUCTION VALVE	1
24	92031	SEALING RING A20 X 24	1
25	205506	DOWEL PIN 8 X 20	1
26	93456	LOCKING SCREW M8 X 50	1
27	93236	PROTECTION CAP	2

**Fuel Pump Control
Complete**

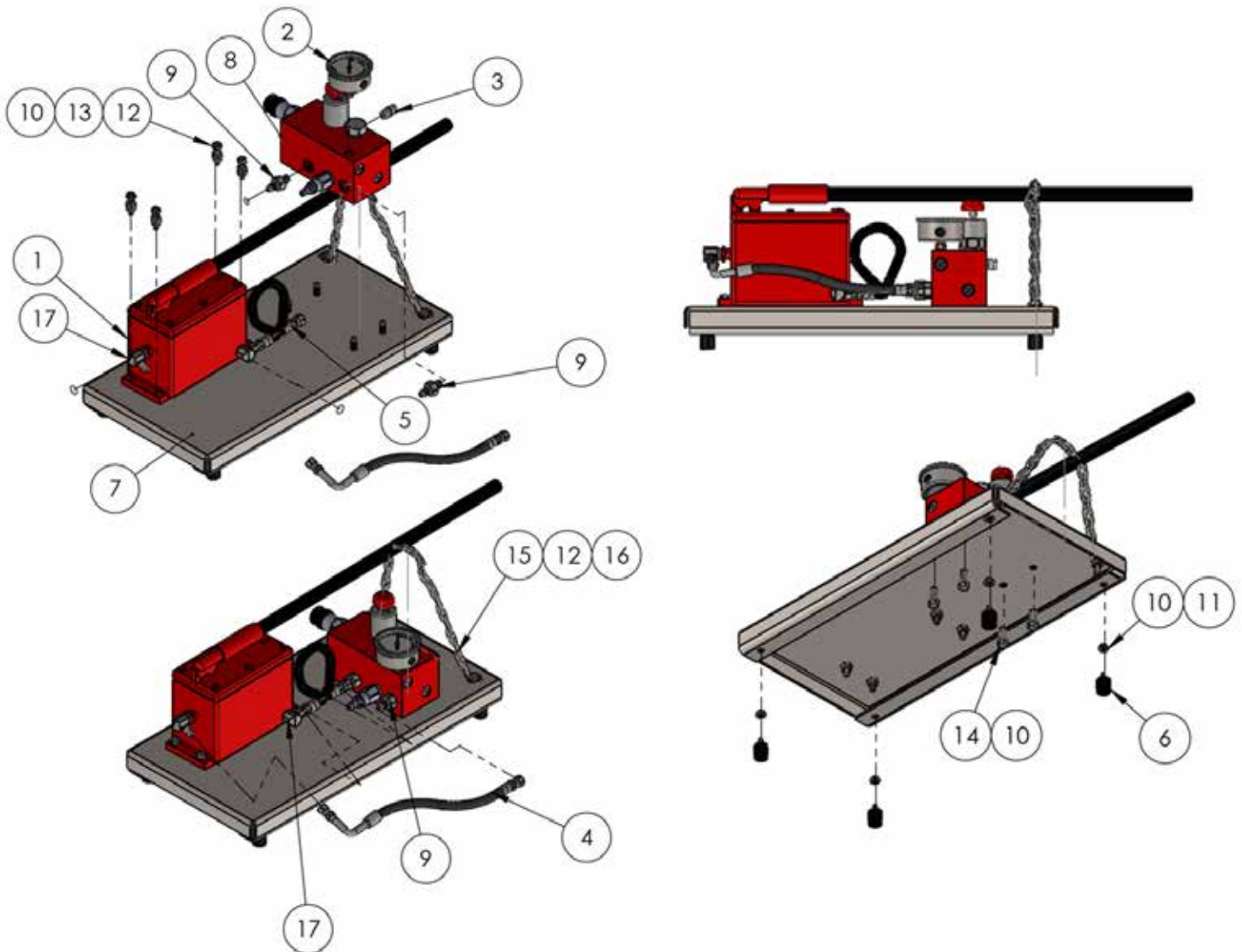
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	205509	METRIC BITE TYPE FITTING M16 X 1.5	1
2	126538-C	CYLINDER	1
3	126539	PISTON	1
4	193444	O-RING 32.93 X 3.53	1
5	126537-C	COVER	1
6	193446	BACK UP RING	1
7	193451	PRESSURE SPRING	1
8	193450	PRESSURE SPRING	1
9	193445	O-RING 20.22 X 3.53	1
10	193447	BACK UP RING	1
11	193448	ROD WIPER	1
12	193449	ROD WIPER	1
13	94989	8-1.25 X 35 HEX HEAD CAPSCREW	4

**Pigtail Installment**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	205505	HYDRAULIC FUEL PUMP HOSE CLAMP	1
2	8001063	HYDRAULIC FUEL PUMP PIGTAIL HOSE	1
3	205504	16MM-2.0 X 90MM HEX HEAD CAP SCREW 8.8	2



Hydraulic Hand Pump Assembly

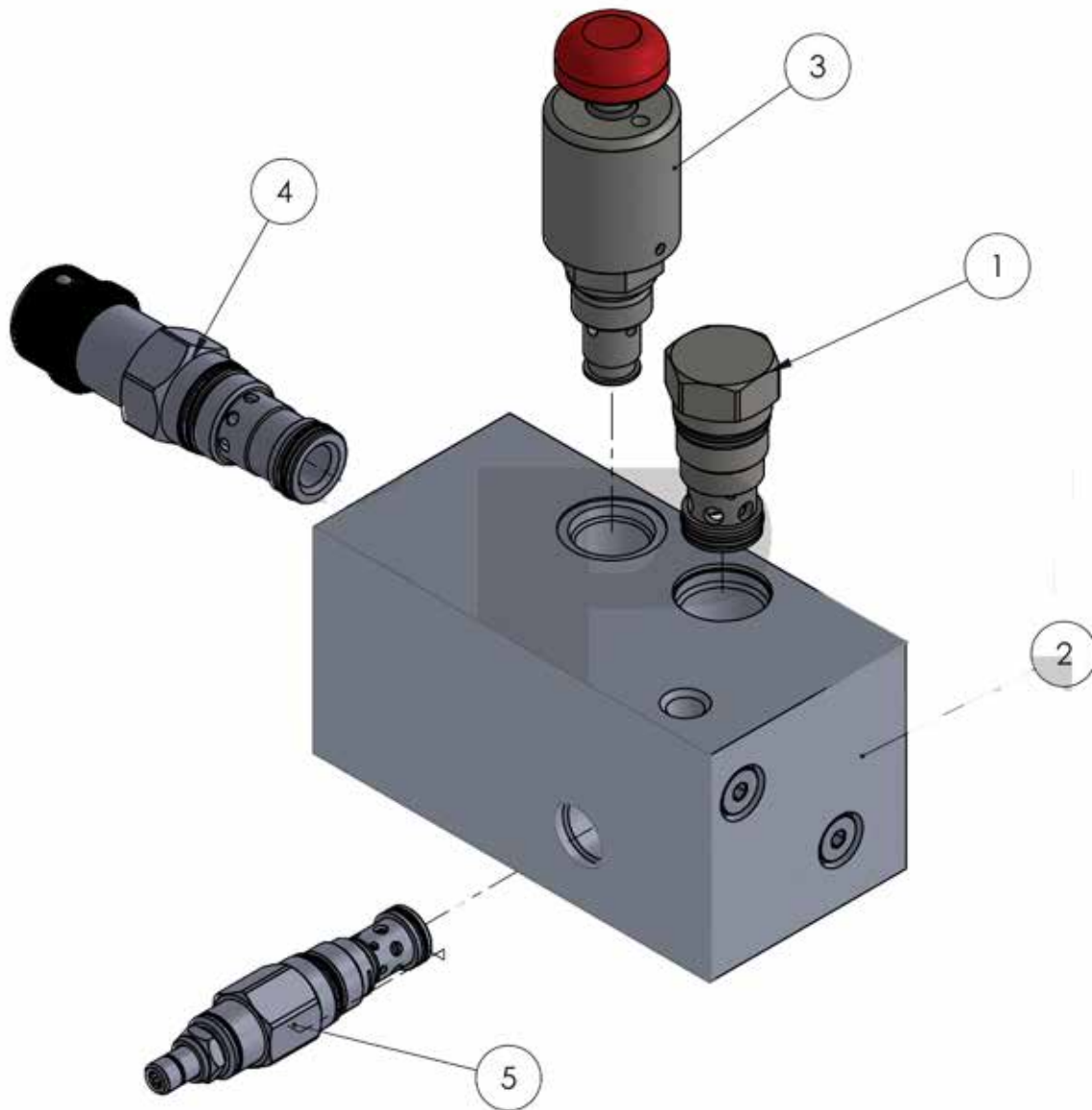


**Hydraulic Hand Pump
Assembly****Hydraulic Hand Pump Continued....**

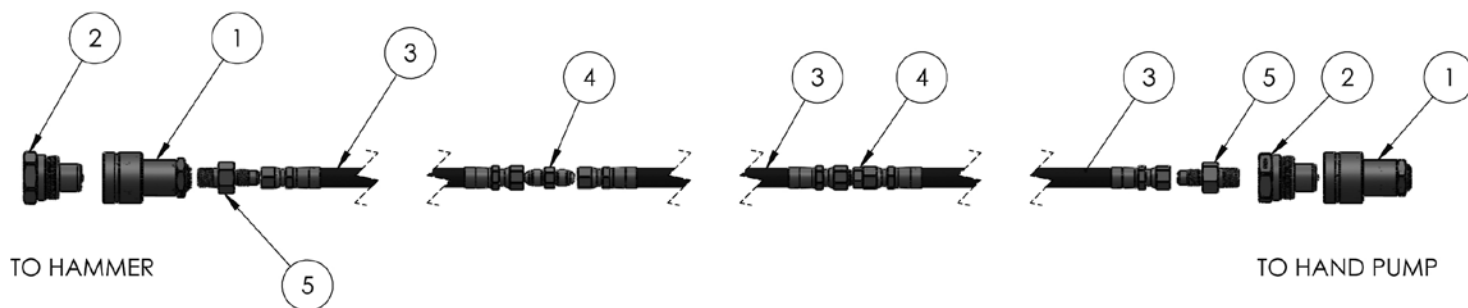
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	55107	P-51 ENERPAC PUMP	1
2	55120	G25-SL600-CB SS PRESSURE GAUGE	1
3	55121	4SAE MALE TO 1/4 NPT MALE ADAPTER	1
4	55104	1/4 JIC FEMALE SWIVEL FITTING TO 1/4 JIC FEMALE SWIVEL 1/4 PRESSURE HOSE	1
5	55109	1/4 JIC FEMALE SWIVEL FITTING TO 1/4 JIC FEMALE SWIVEL HOSE TO TANK	1
6	55122	RUBBER FOOT 1" X 1" - 5/16-18 X 3/4 BOLT	4
7	55105	PLATE	1
8	55103	MANIFOLD COMPLETE	1
9	55123	4 SAE MALE TO 1/4 JIC MALE STRAIGHT ADAPTER	2
10	8001049	5/16 SPLIT LOCK WASHER	17
11	55125	M6-1.0 JAM NUT	4
12	8001050	5/16-18 X 1 1/4 HEX HEAD CAP SCREW	6
13	1137184	10MM-1.5 NYLON INSERT LOCKNUT	6
14	8005969	5/16-18 X 1 HEX HEAD CAP SCREW GR 5	4
15	55108	CHAIN LINK #2/O X 16"	1
16	8005970	5/16 FLAT WASHER	2
17	8005975	1/4 MALE JIC TO 1/4" FEMALE NPT FITTING	2



**Manifold
Complete**

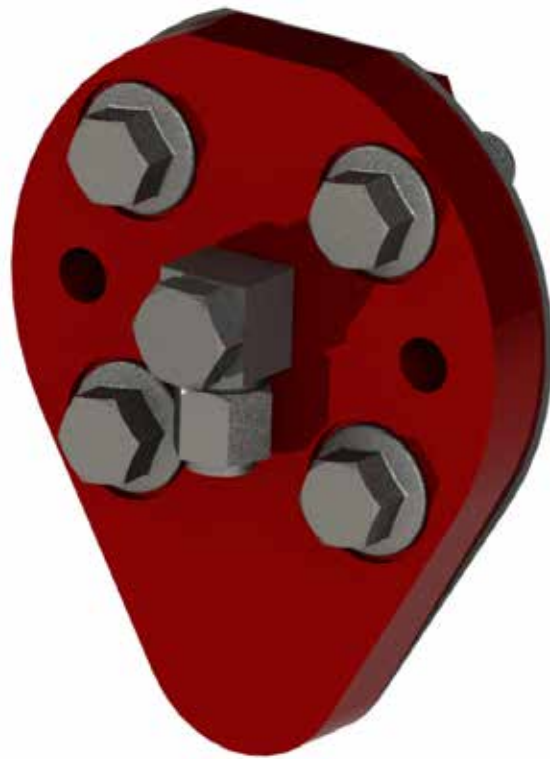


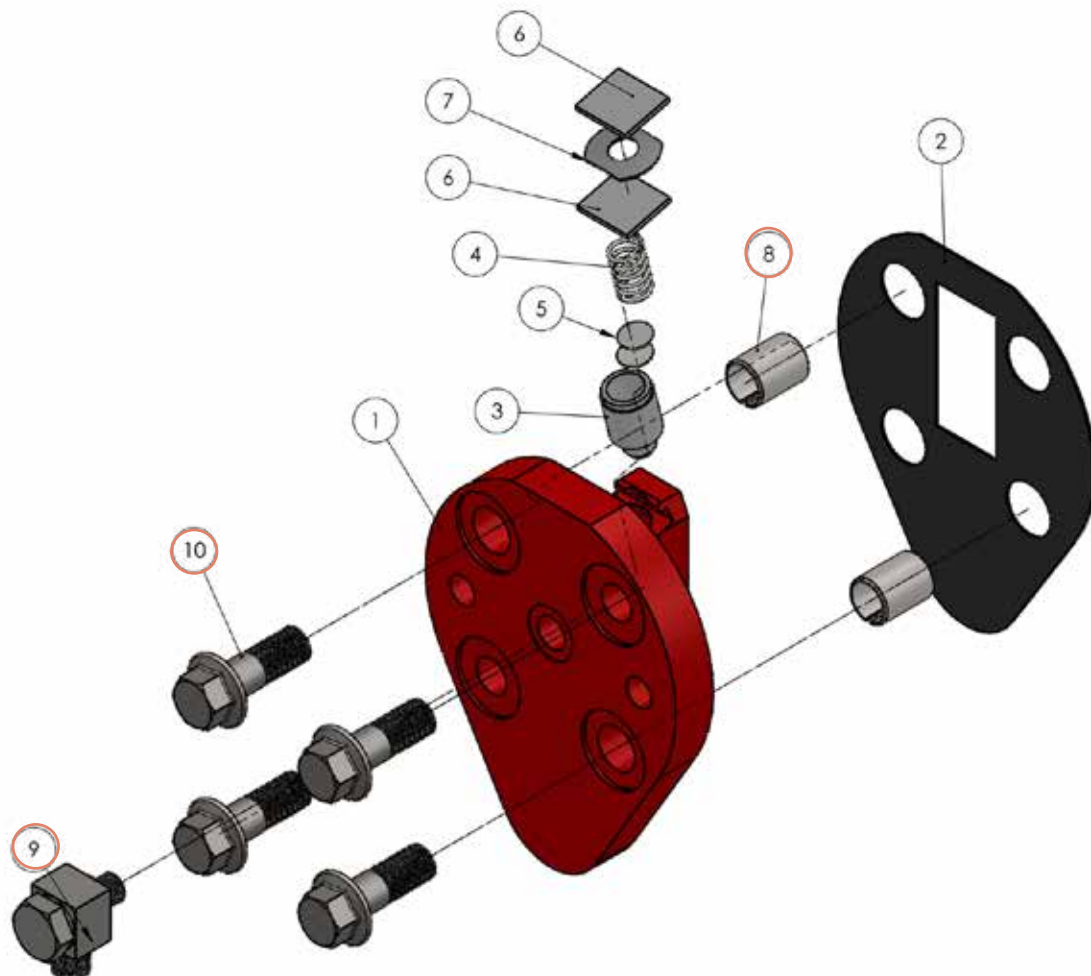
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	55110	CXFA-XCN DIRECTION CHECK	1
2	55106	MANIFOLD	1
3	55111	DOERING DUMP VALVE	1
4	55112	NEEDLE VALVE	1
5	55113	RELIEF VALVE	1

**HAND PUMP 1/4" HOSE ASSEMBLY
150FT IN 50FT SECTIONS**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	55133	1/4" COUPLER NPFT SCREW TYPE QUICK DISCONNECT FEMALE	2
2	55134	1/4" 3000 SERIES NIPPLE NPFT SCREW TYPE QUICK DISCONNECT MALE	2
3	8000440	4 FEMALE JIC TO 4 FEMALE JIC 1/4 HOSE 50FT	3
4	55137	4 JIC MALE TO 4 JIC MALE STRAIGHT ADAPTER	2
5	8001067	1/4 NPT MALE TO 1/4 JIC MALE STRAIGHT ADAPTER	2

Fuel Injection

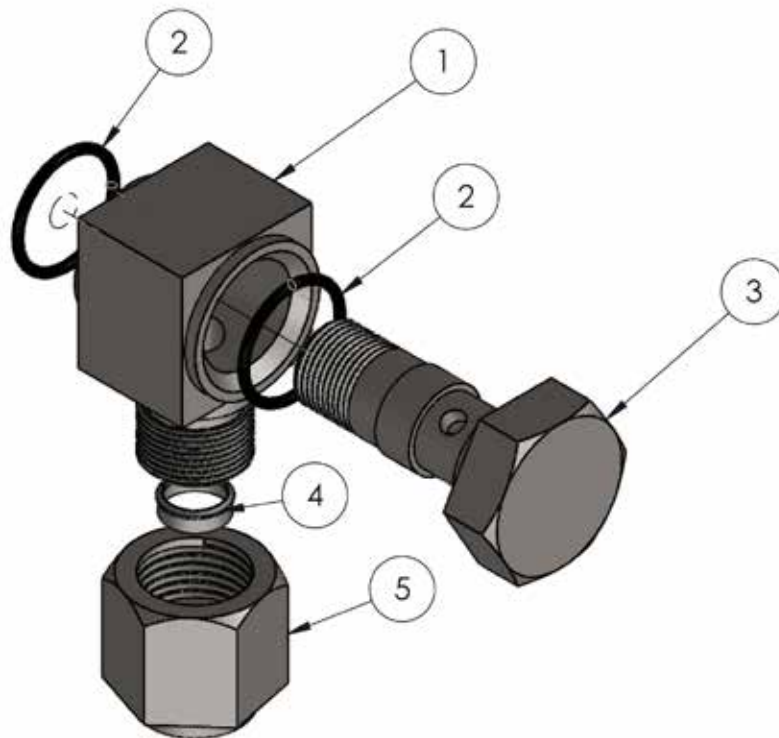


**Fuel Injection Valve
Complete**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	102133	INJECTION PLATE	1
2	45647	GASKET	1
3	63843	VALVE PISTON	1
4	97569	PRESSURE SPRING	1
5	97573	ADJUSTING WASHER	2
6	64460	LOCKING PLATE	2
7	64461	SPRING WASHER	1
8 sold separately	95633	DOWEL PIN 21 X 28 DIN 7346	2
9 sold separately	97038	THREADED PIPE JOINT (UNION)	1
10 sold separately	95639	LOCKING SCREW M16 X 45	4



Threaded Pipe Joint Complete



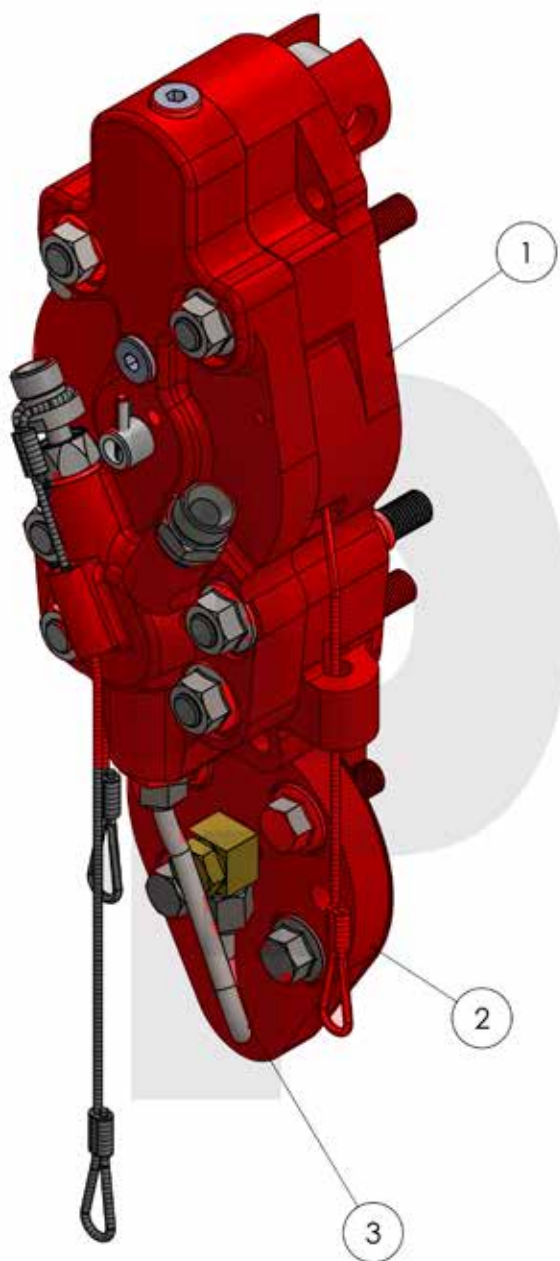
NOTE: ITEM SHOULD BE REPLACED WITH
NEW PIPE JOINT COMPLETE WHEN
REMOVED FOR SERVICING

#1 SOLD COMPLETE

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	97038	THREADED PIPE JOINT	1
2	97258	O RING 17 X 1.5	2
3	210405	HOLLOW SCREW	1
4	90127	OLIVE	1
5	204012	UNION NUT M16X1.5	1

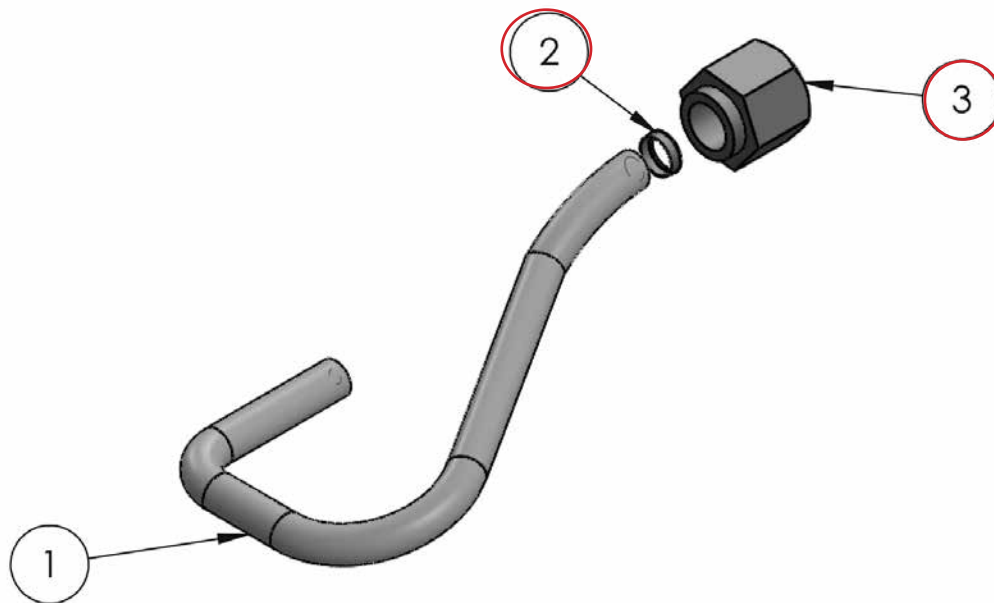
**SOLD
TOGETHER**

Fuel Injection Device Complete



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	170244	VARIABLE-DELIVERY FUEL PUMP D19	1
2	104675	INJECTION VAVLE COMPLETE	1
3	104974	FUEL TUBE COMPLETE	1

Fuel Tube Assembly



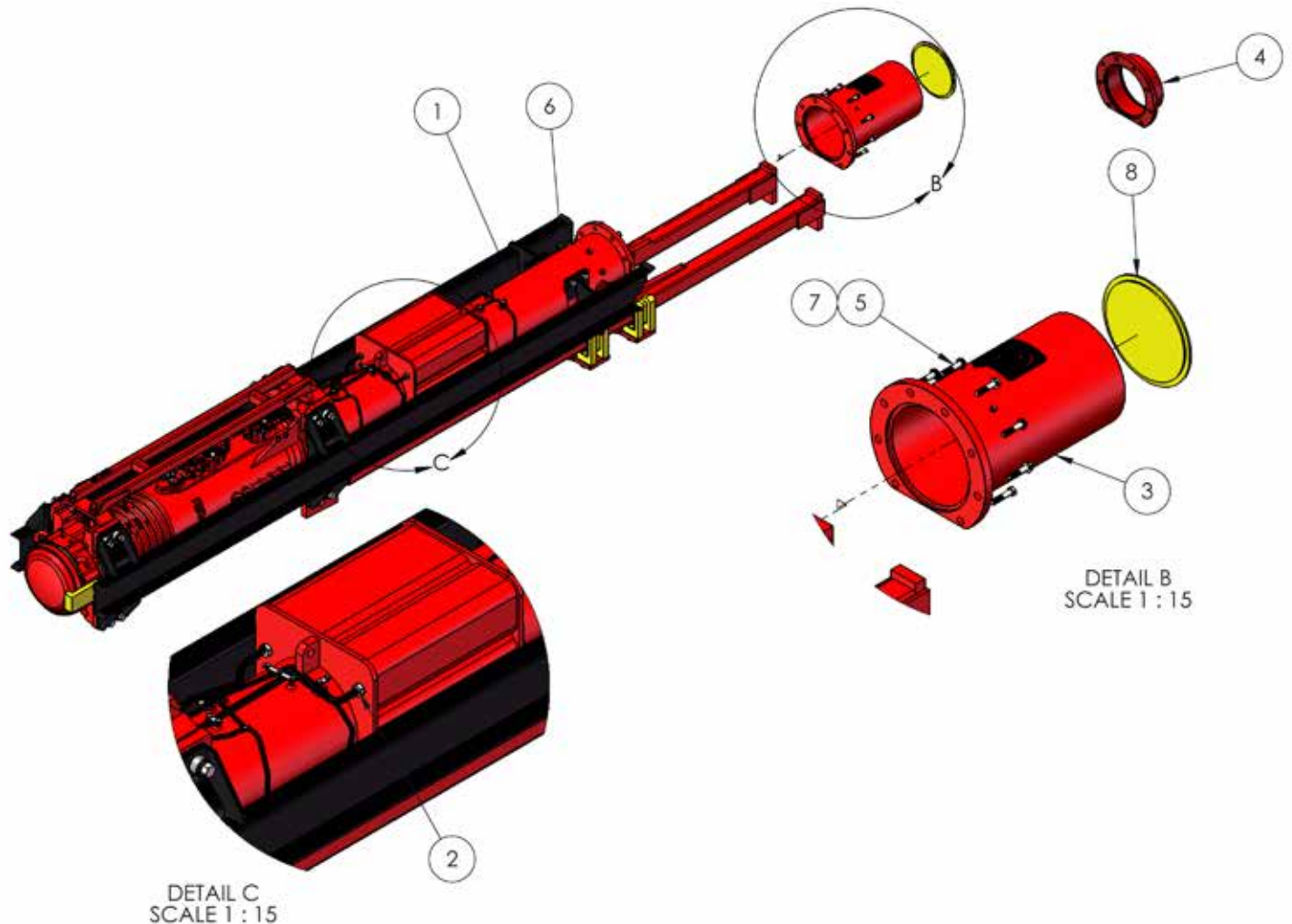
NOTE: FUEL TUBE , NUT, AND OLIVE SHALL BE REPLACED IF REMOVED DURING SERVICE

**DO NOT OVER TIGHTEN COMPRESSION NUTS
DAMAGE TO TUBE MAY OCCUR!**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	104974	FUEL TUBE	1
2 sold separately	90127	OLIVE	1
3 sold separately	90128	UNION NUT M18X1.5	1

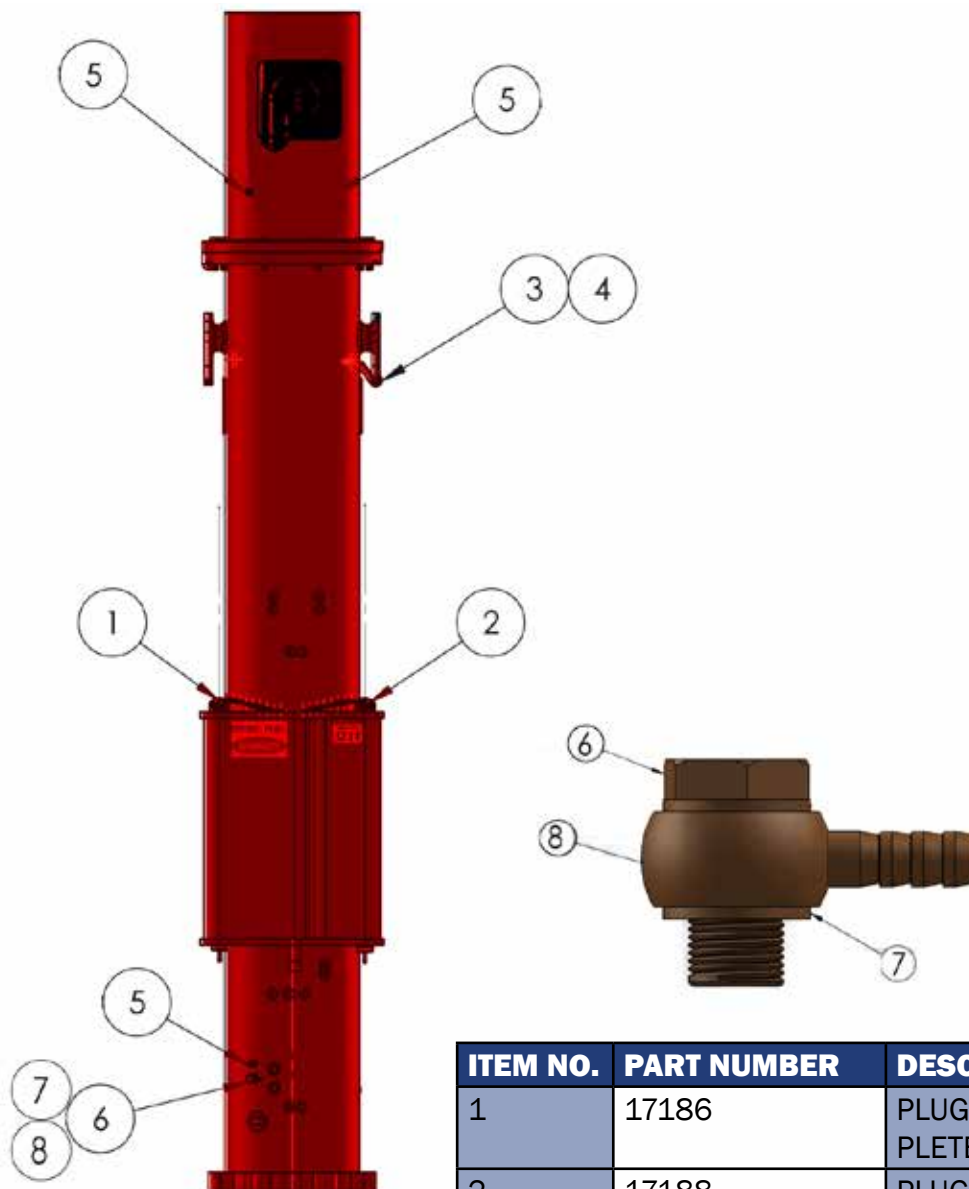
Upper Cylinder



**Upper Cylinder
Complete**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	136674	UPPER CYLINDER	1
2	64403	FILTER ELBOW	2
3	202004	UPPER ENDRING (LONG VERSION)	1
4	202008	UPPER ENDRING (SHORT VERSION)	1
5	202005	16MM-2.0 X 75 HEX HEAD CAPSCREW	8
6	202006	16MM-2.0 HEAVY HEX NUT	8
7	202007	WASHER	8
8	119050	RAIN COVER	1

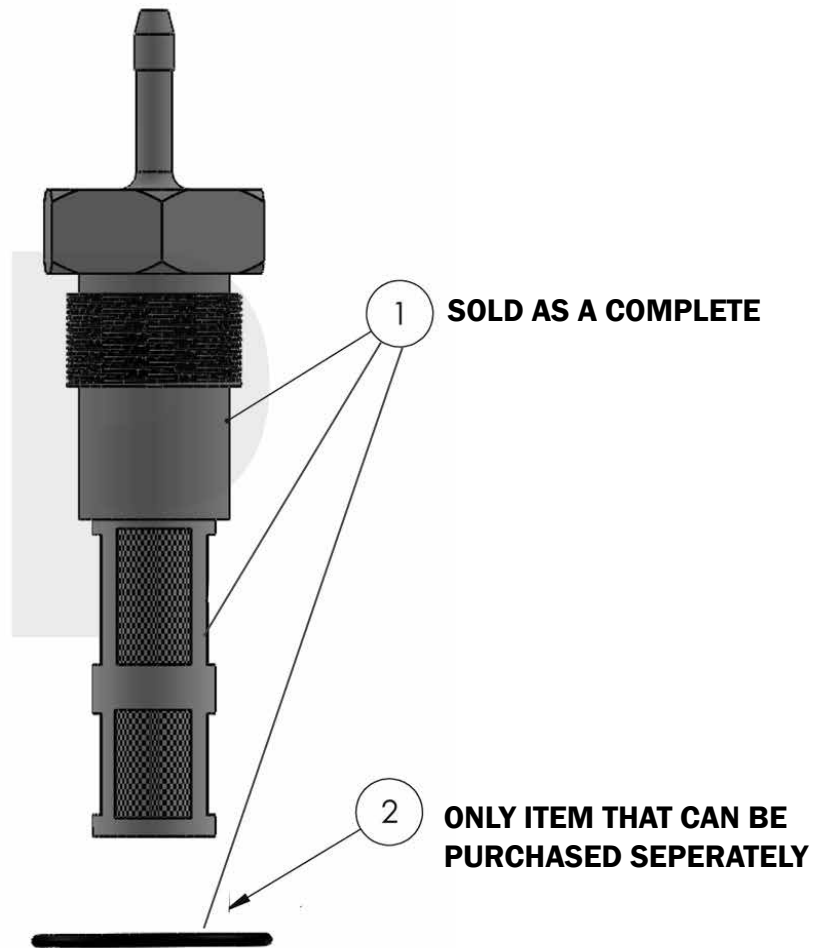
Upper Cylinder Complete



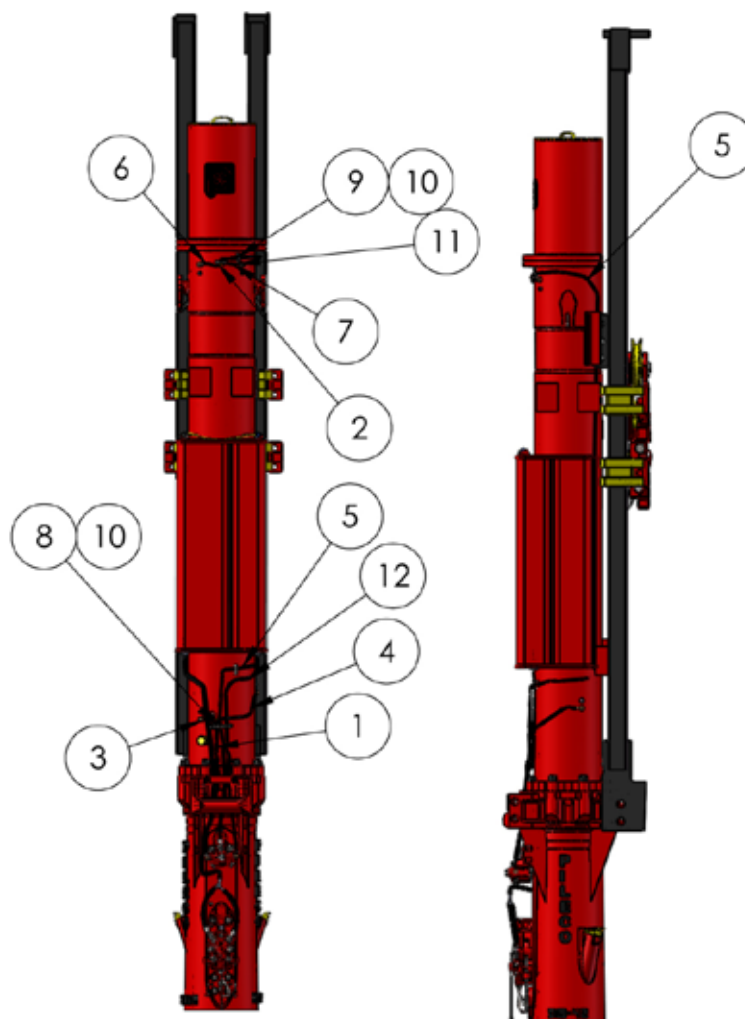
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	17186	PLUG SCREW (DIESEL) COMPLETE	1
2	17188	PLUG SCREW(OIL)COMPLETE	1
3	17039	RATCHET	2
4	90044	12MM X 60 DOWEL PIN	2
5	90791	GREASE NIPPLE M10 X 1	3
6	97948	HOLLOW SCREW A6 DIN 7623-6.8	3
7	91417	SEALING RING A12 X 15.5 DIN 7603CU	6
8	97949	RING NIPPLE	3



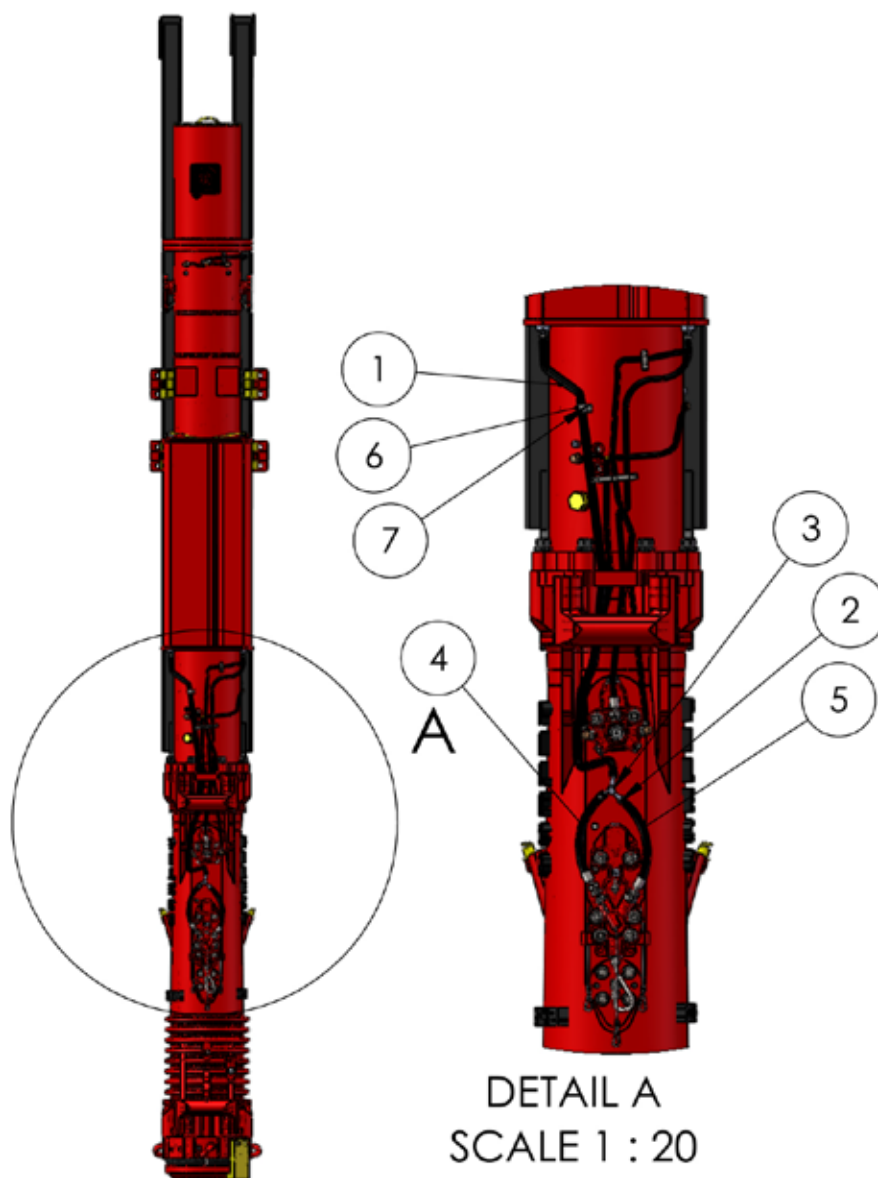
**Filter Elbow
Complete**



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	64403	FILTER ELBOW COMPLETE	1
2	210607	O-RING 36 X 1.5	1

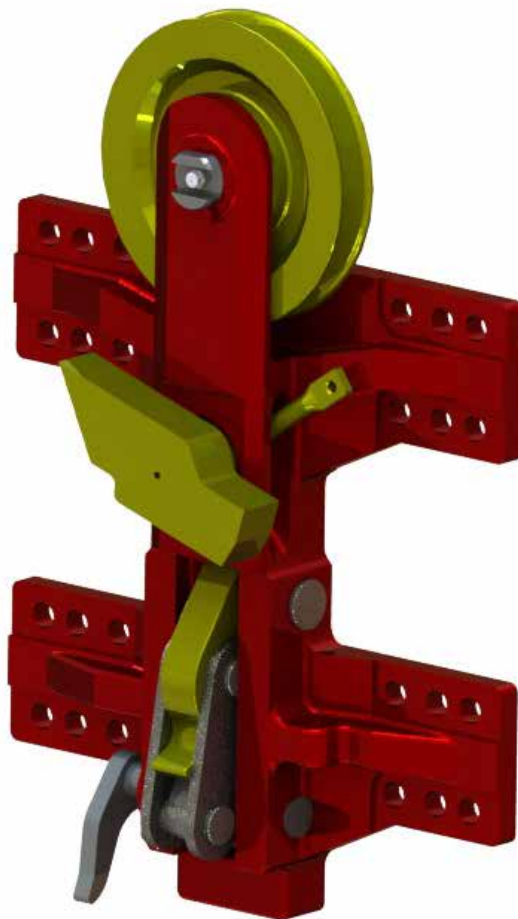
**Lube Lines w/Connectors**

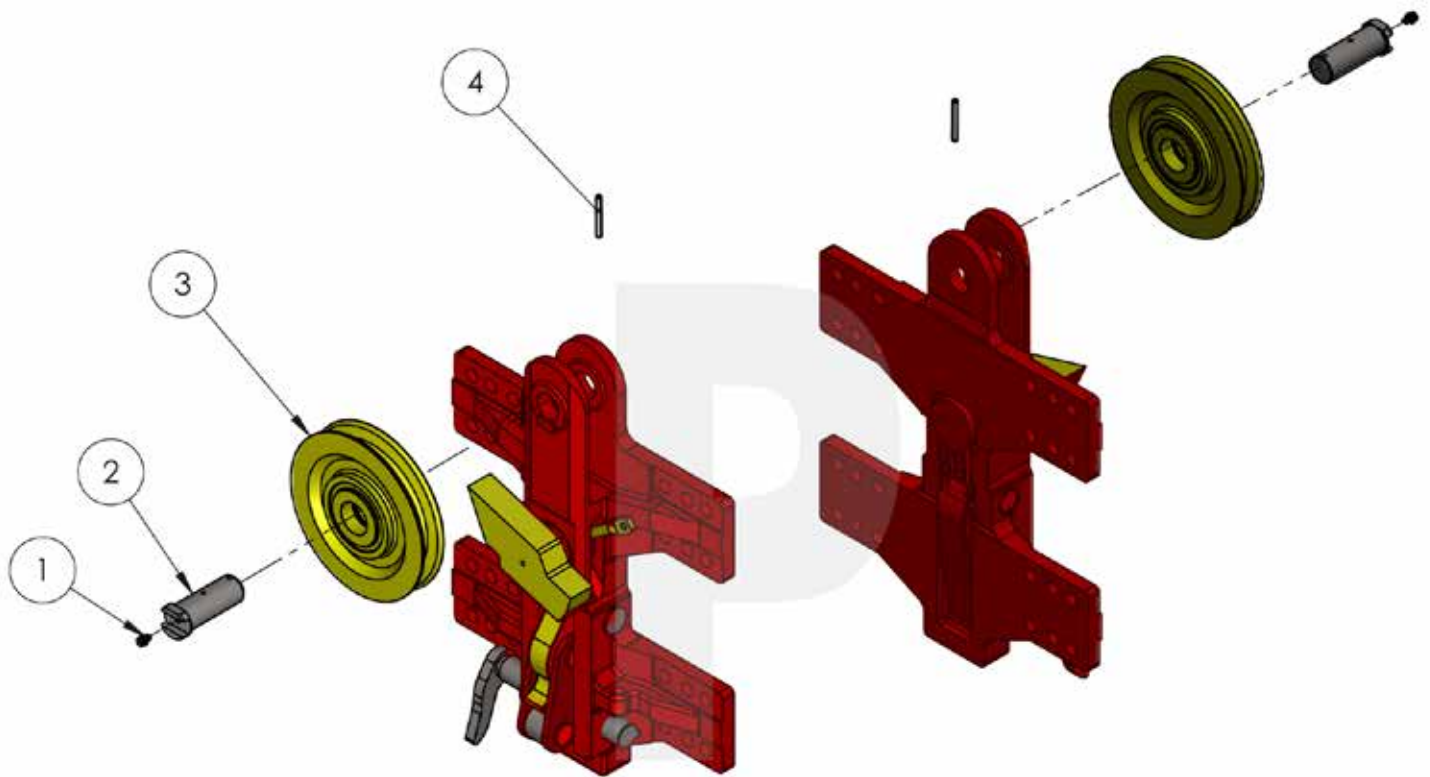
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	150156	HOSE 0.78m LONG	1
2	94522	T-PIECE	2
3	150155	HOSE 0.13m LONG	1
4	150152	HOSE 0.43m LONG	1
5	150153	HOSE 3.3M LONG	1
6	150154	HOSE 0.14m LONG	1
7	150155	HOSE 0.13m long	1
8	41981	CLIP	1
9	2932	CLIP	13
10	93412	HEXAGON SCREW M8×12	26
11	95115	HOSE CLAMP 1/4-5/8	26
12	96035	HOSE 1.15m LONG	1

**Fuel Line—Breather Line**

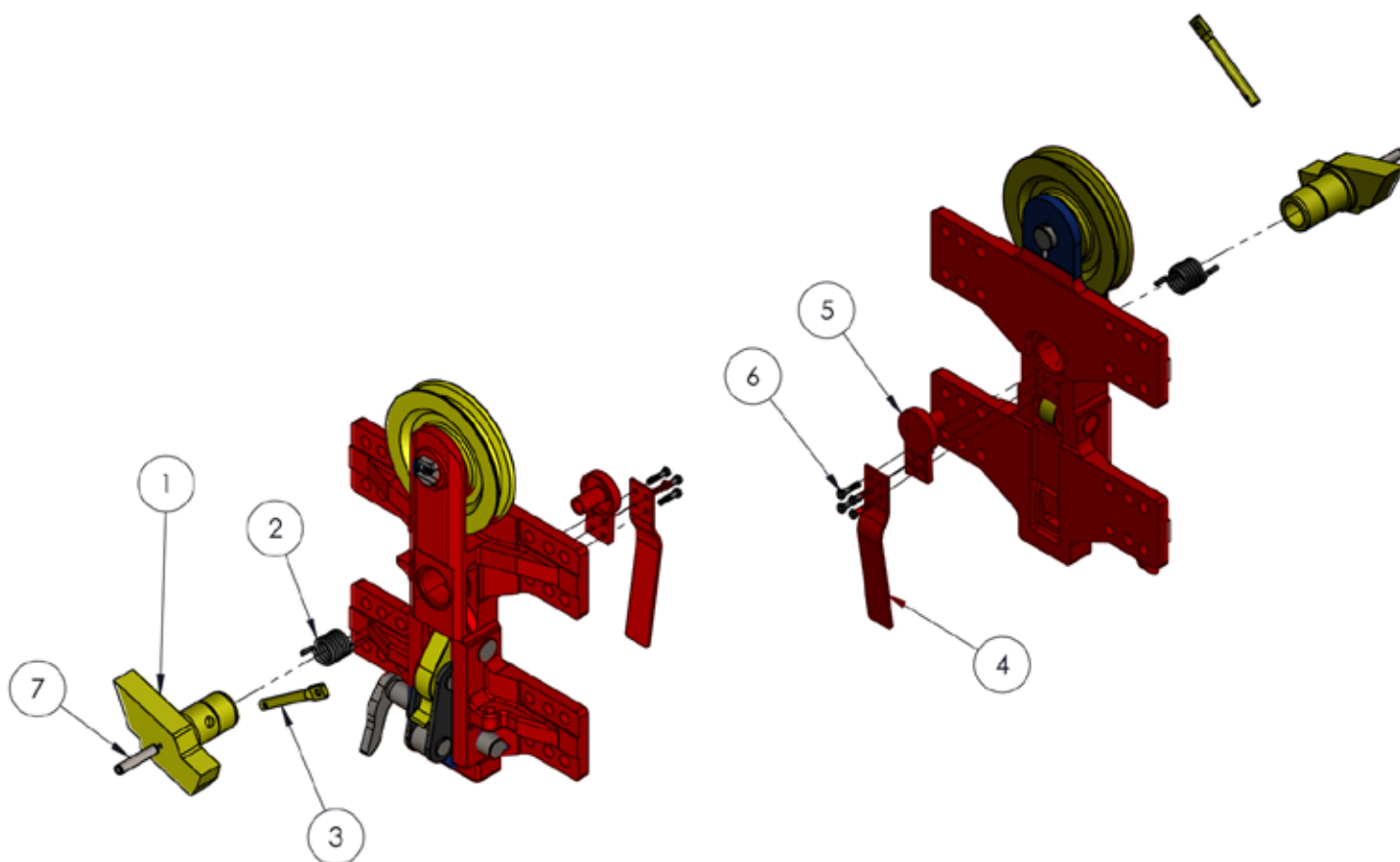
TEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	102124	HOSE FOR D19 FUEL FEEDING LINE, 1/2", 1.6M/62.9" LONG	1
2	94299	HOSE CLAMP 5/8-1	4
3	99019	Y-PIECE	1
4	96504	HOSE 0.28m LONG	1
5	207025	HOSE 0.36m LONG	1
6	210705	CLIP	1
7	93412	HEXAGON SCREW M8×12	2

Manual Starting Device (Trip) 9T

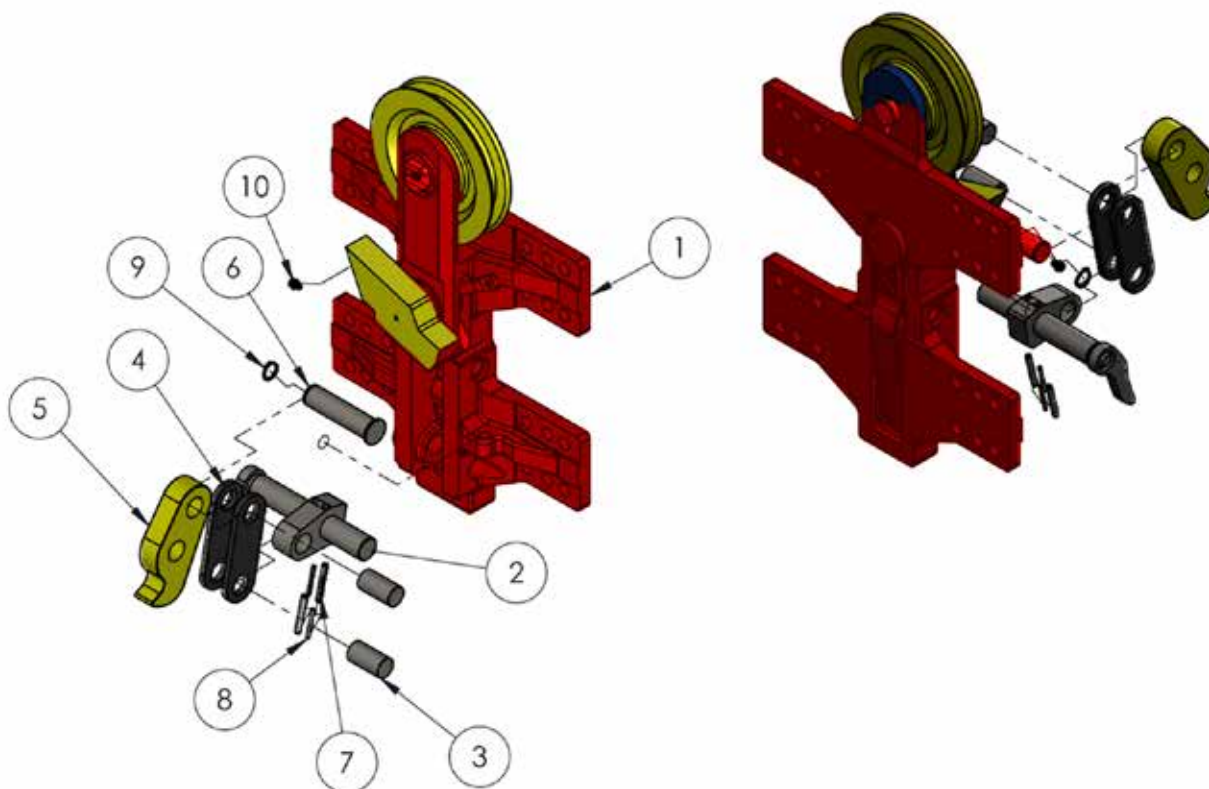


**Manual Starting Device (Trip)
Complete**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	90791	GREASE NIPPLE M10 X 1	1
2	104954	SHEAVE PIN	1
3	190285	ROPE PULLEY	1
4	90637	8 X 80 SPLIT PIN DIN 94-ST	1

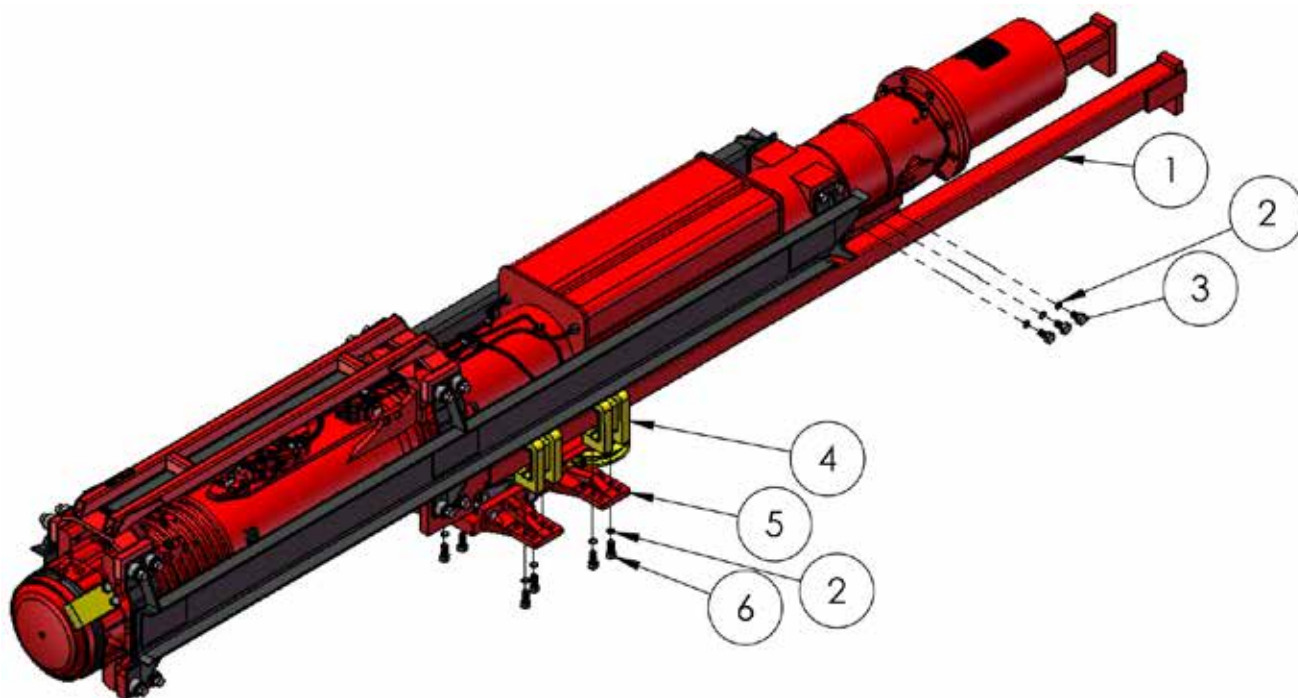
**Manual Starting Device (Trip)
Complete**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	108300	DRIVING PIN	1
2	39381	TORSION SPRING	1
3	64189	LEVER	1
4	39382	LEAF SPRING	1
5	104698	COVER	1
6	93414	10-1.5 X 30 HEX HEAD CAPSCREW 8.8	4
7	90380	8MM X 50 ROLL PIN	1

**Manual Starting Device (Trip)
Complete**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	104697	TRIP BODY	1
2	104695	TRIP CAM WITH LEVER	1
3	1106	JOINT BOLT	2
4	1104	SHACKLE	2
5	64192	PAWL	1
6	64190	PIN	1
7	91321	10MM X 75 ROLL PIN	2
8	90160	6MM X 60 ROLL PIN	2
9	90221	CIRCLIP 30 X 1.2 DIN 471	1
10	90791	GREASE NIPPLE M10 X 1	1

Trip Assembly w/Starter Guides Complete



TOTAL APPROX WEIGHT 1004.2 LBS

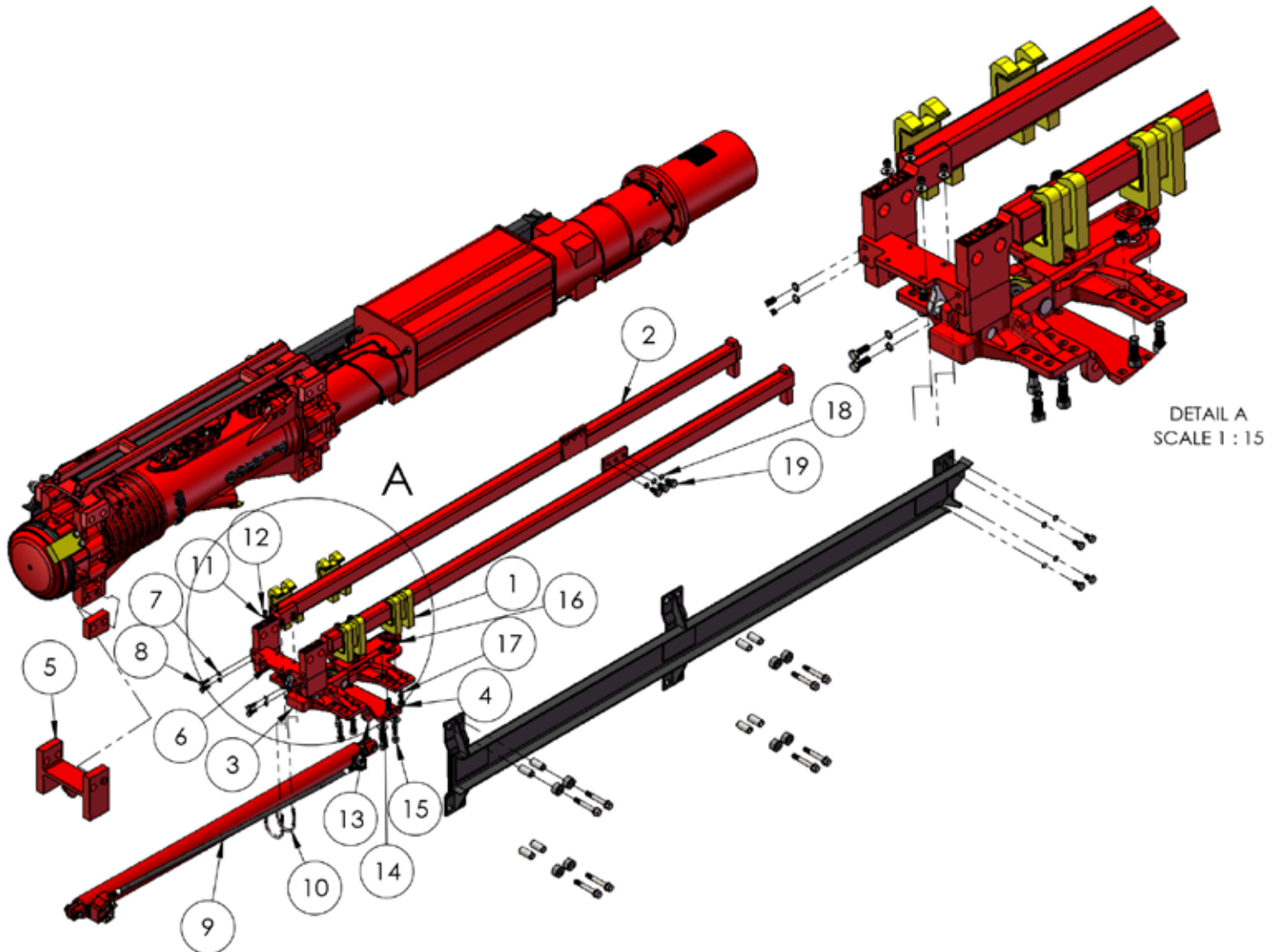
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	WEIGHT LBS
1	203207	D19-42 MANUAL STARTER GUIDE	1	608
2	203131	24MM SCHNORR SAFETY WASHER	14	0.5
3	203130	24-3.0 X 45 HEX HEAD CAPSCREW	6	4.2
4	203132	GUIDE GIB	4	81
5	203011	D6-D19 STARTING DEVICE COMPLETE MANUAL START (TRIP GEAR)9 TON	1	305
6	203133	24-3.0 X 50 SOCKET HEAD CAP- SCREW	8	5.5

Hydraulic Push Start





Hydraulic Push Start Complete



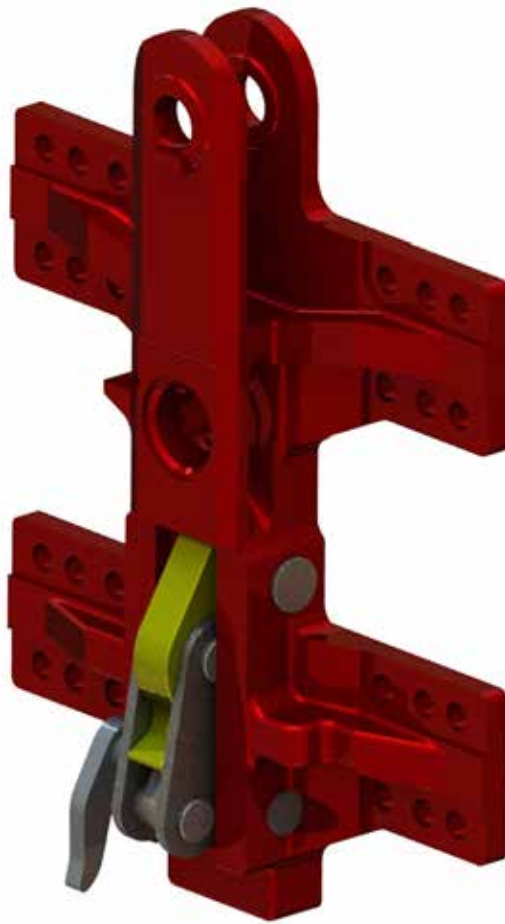
continued.....

TOTAL APPROX WEIGHT 789 LBS

**Hydraulic Push Start
Complete**

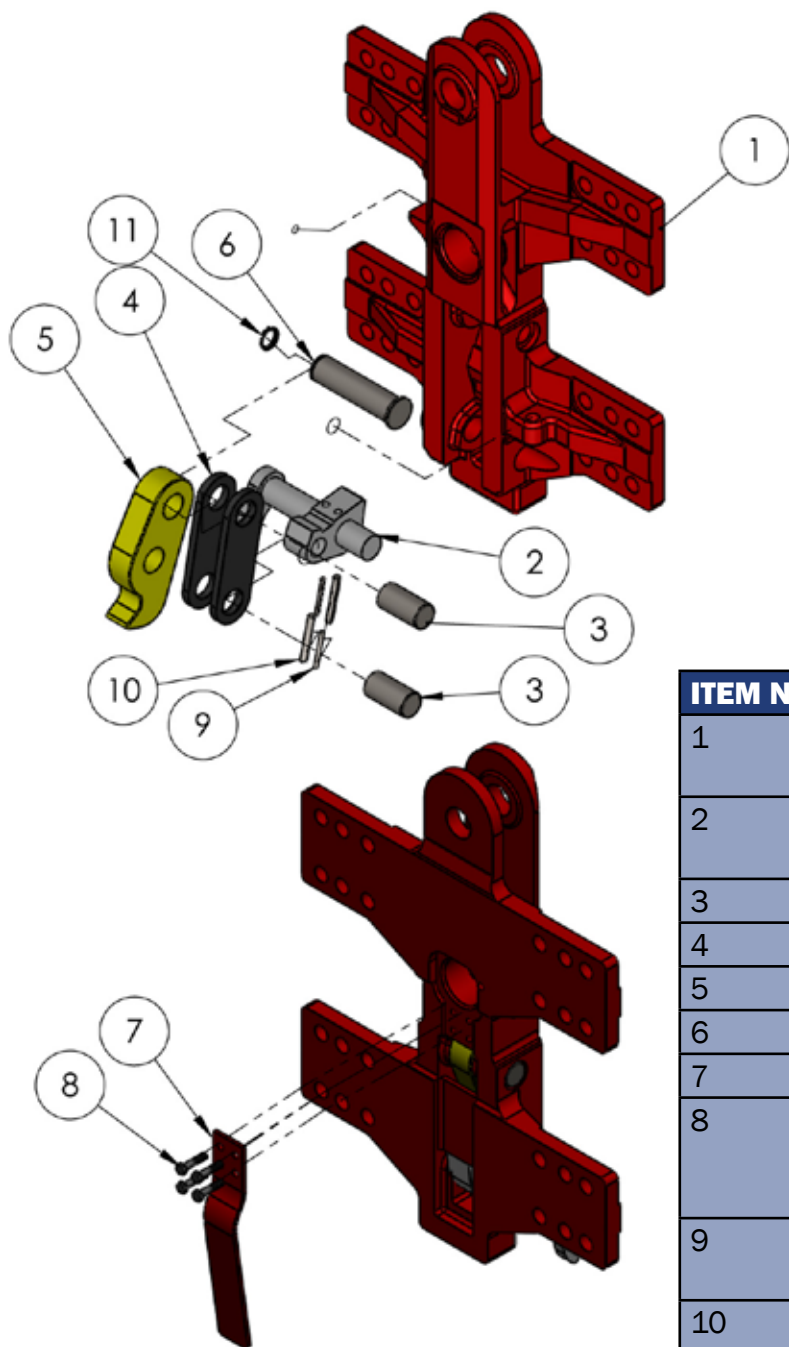
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	203132	GUIDE GIB	4
2	203101	D12 HYDRAULIC TRIP STARTER GUIDES	1
3	8000953	HYDRAULIC START TRIP ASSEMBLY	1
4	203133	24-3.0 X 50 SOCKET HEAD CAPSCREW	8
5	203127	D19 LOWER BRACKET	1
6	202104	HYDRAULIC CYLINDER BRACKET	1
7	202107	16MM EXT LOCKWASHER	4
8	202106	16-2MM X 50 HEX HEAD CAP SCREW	4
9	203170	HYDRAULIC PUSH START CYLINDER COMPLETE	1
10	202110	U BOLT 12-1.75 X 134MM	2
11	202109	12MM FLAT WASHER	4
12	202108	12-1.75 NYLON INSERT LOCK NUT	4
13	202103	D12-D19 UPPER BRACKET	1
14	203104	24MM FLATWASHER	4
15	203102	24-3.0MM X 90 SOCKET HEAD CAP SCREW	4
16	203103	24-3.00 NYLON INSERT LOCKNUT	4
17	203134	7/8 SCHNORR SAFETY WASHER	8
18	203131	24MM SCHNORR SAFETY WASHER	6
19	203130	24-3.0 X 45 HEX HEAD CAPSCREW	6

Hydraulic Starting Device (Trip)

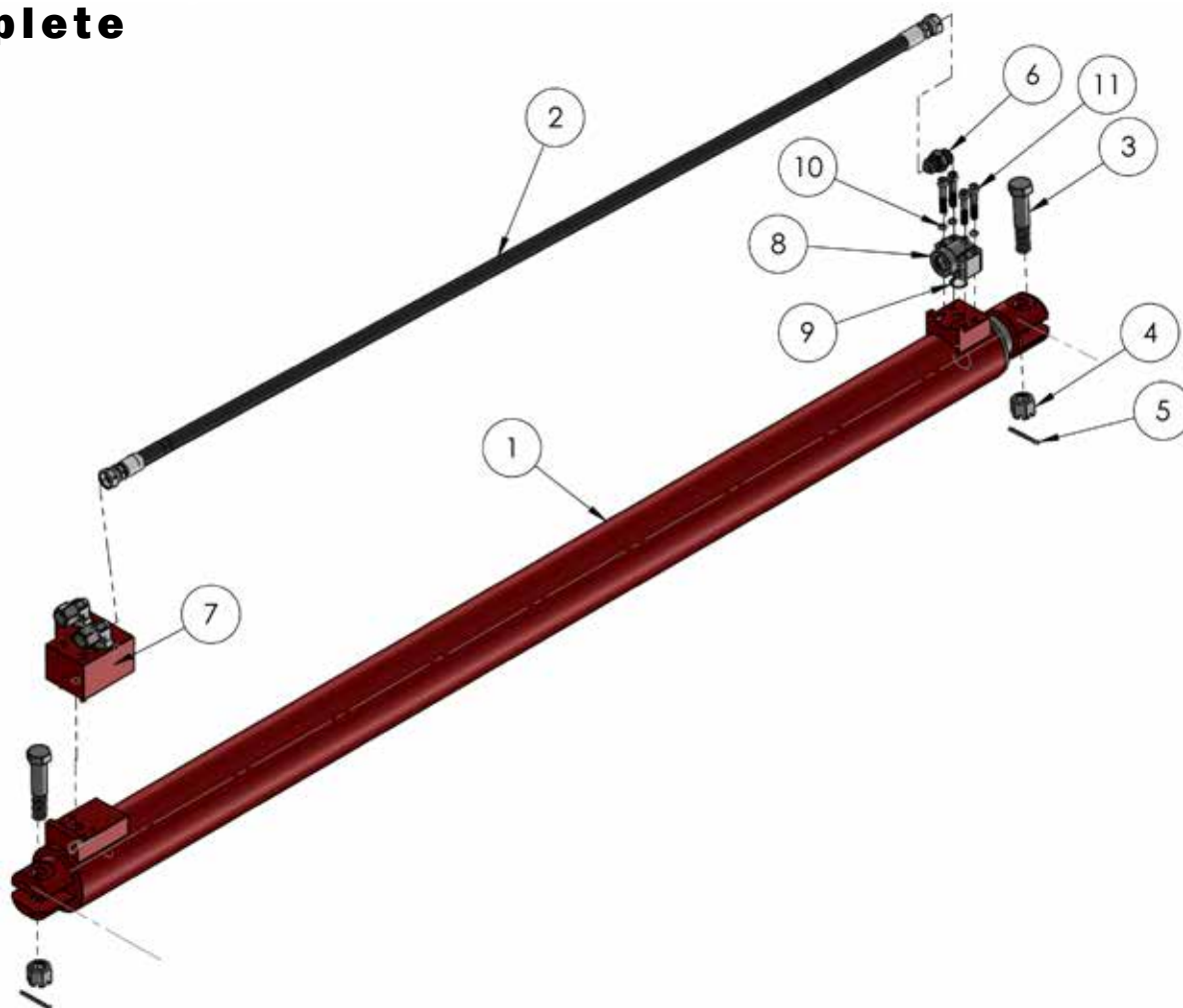




Hydraulic Starting Device (Trip) Assembly



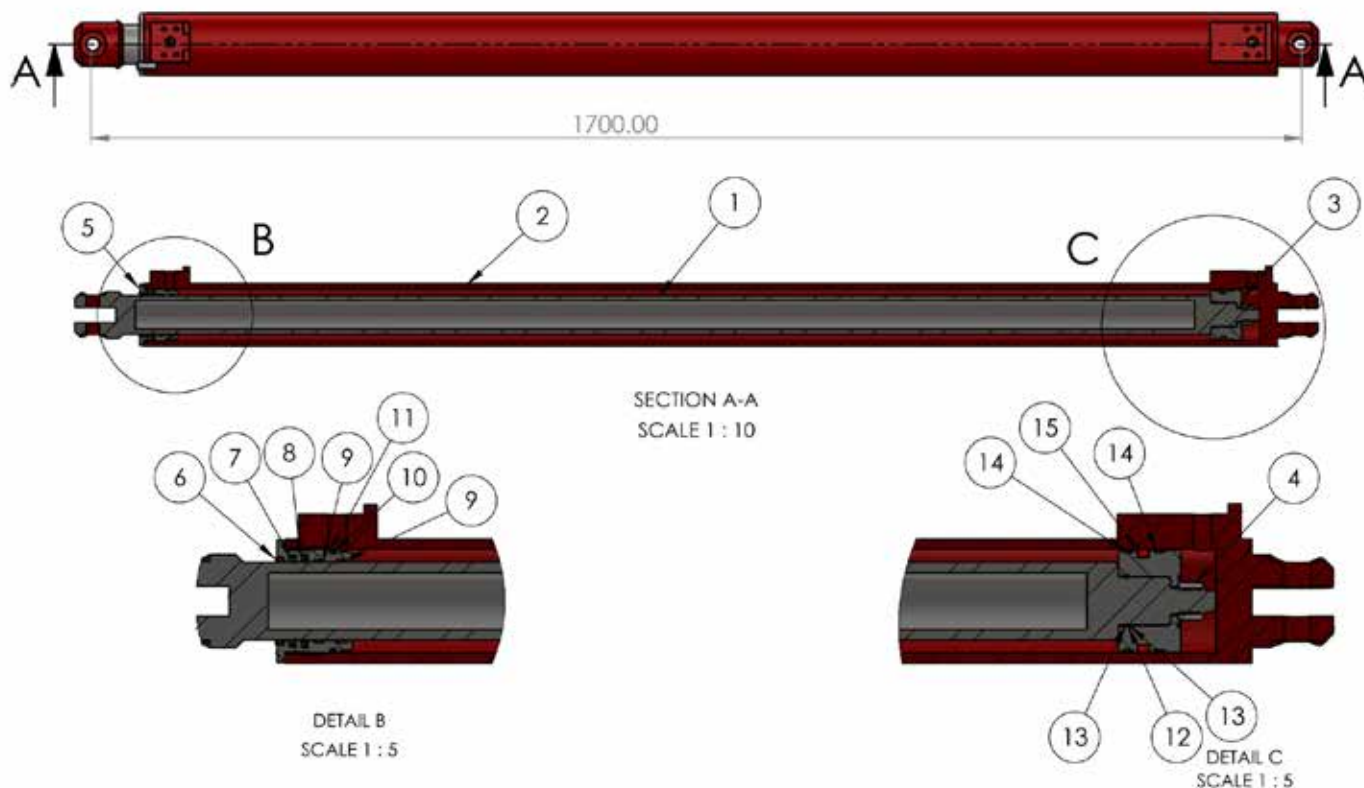
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	104697	GUIDE BODY COMPLETE	1
2	104695	CAM WITH LEVER COMPLETE	1
3	1106	JOINT BOLT	2
4	1104	SHACKLE	2
5	64192	PAWL	1
6	64190	PIN	1
7	39382	LEAF SPRING	1
8	93414	10-1.5 X 30 HEX HEAD CAPSCREW 8.8	4
9	90160	6MM X 60 ROLL PIN	2
10	91321	10MM X 75 ROLL PIN	2
11	90221	CIRCLIP 30 X 1.2 DIN 471	1

**Hydraulic Cylinder
Complete**

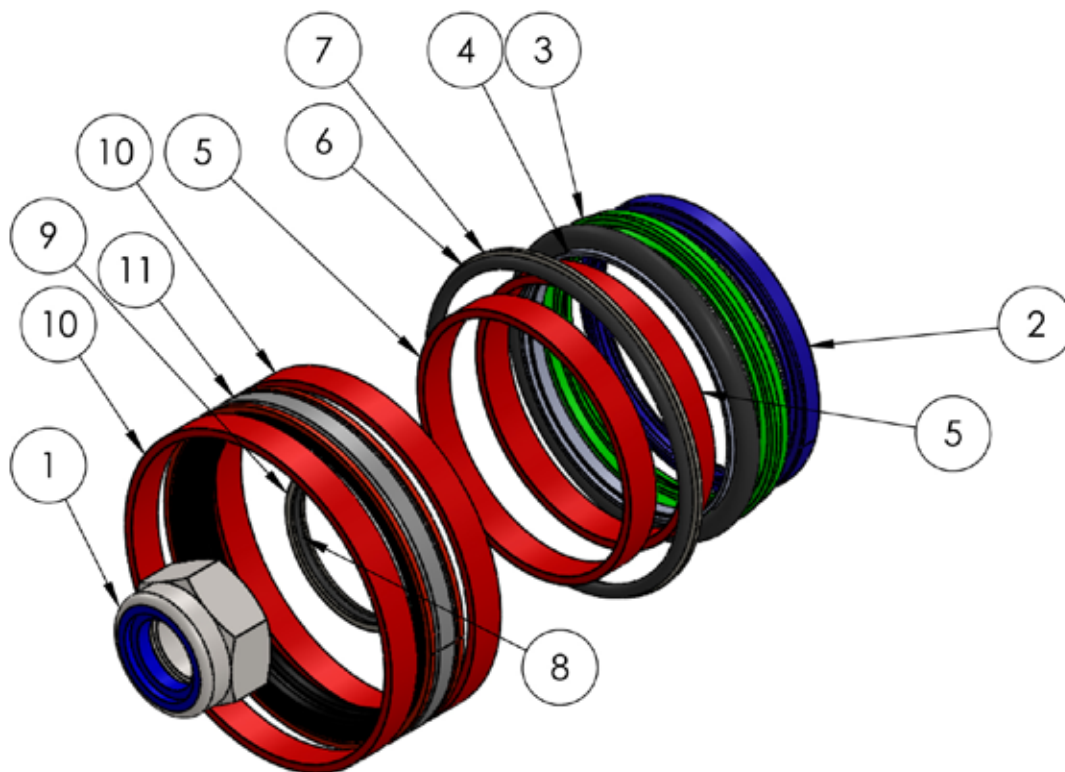
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	203171	HYDRAULIC START CYLINDER	1
2	203175	1950MM HOSE	1
3	205110	24MM-3.0 X 110 HEX HEAD CAP SCREW w/ PIN HOLE	2
4	205111	M24 SLOTTED HEX NUT	2
5	205112	5 X 40 COTTER PIN	2
6	203124	3/4-1 1/16 - 12 JIC Straight Thread Connectors 37° Flare /SAE-ORB 12 F50X	1
7	201108	LOWER HYDRAULIC BLOCK ASSEMBLY	1
8	203173	W184-12-12 ANCHOR FLANGE	1
9	203172	O-RING 2-214 24.99 X 3.53	1
10	207116	10MM HI COLLAR LOCK WASHER	4
11	203174	10MM X 55 SOCKET HEAD CAP SCREW	4



Hydraulic Cylinder Assembly



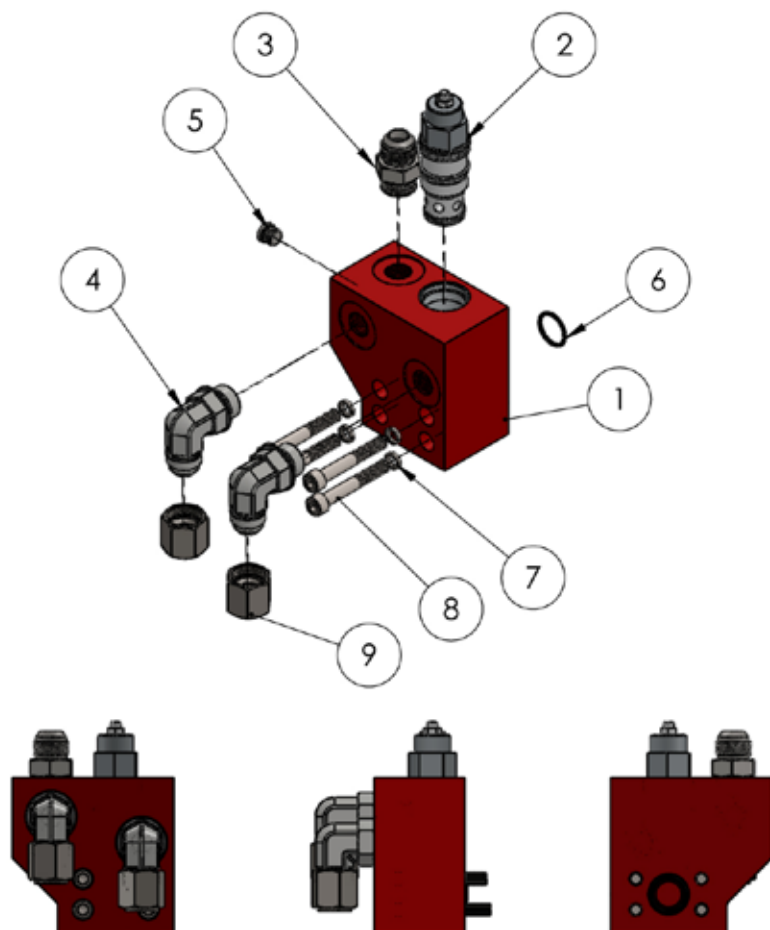
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	203178	CYLINDER ROD	1
2	203180	CYLINDER SLEEVE	1
3	203181	PISTON	1
4	201104	20MM X 2.5 NYLON INSERT LOCK NUT	1
5	203179	CLINDER HEAD	1
6	203146	WIPER SEAL	1
7	203162	ROD SEAL	1
8	203163	ROD SEAL	1
9	203164	WEAR RING	2
10	203165	2-239 91.67X3.53 O-RING	1
11	203166	95X100.5-1.5 BACKING RING	1
12	203167	2-132 44.12×2.62 O-RING	1
13	203168	45×49-1 BACKING RING	2
14	203169	100X95-9.7 GUIDING RING	2
15	203155	100X85X12.5 DOUBLE ACTING PISTON SEAL	1

**D19 Hydraulic Start Cylinder
Ring Kit**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	201104	20MM X 2.5 NYLON INSERT LOCK NUT	1
2	203146	WIPER SEAL	1
3	203162	ROD SEAL	1
4	203163	ROD SEAL	1
5	203164	WEAR RING	2
6	203165	2-239 91.67×3.53 O-RING	1
7	203166	95×100.5-1.5 BACKING RING	1
8	203167	2-132 44.12×2.62 O-RING	1
9	203168	45×49-1 BACKING RING	2
10	203169	100×95-9.7 GUIDING RING	2
11	203155	100×85×12.5 DOUBLE ACTING PISTON SEAL	1

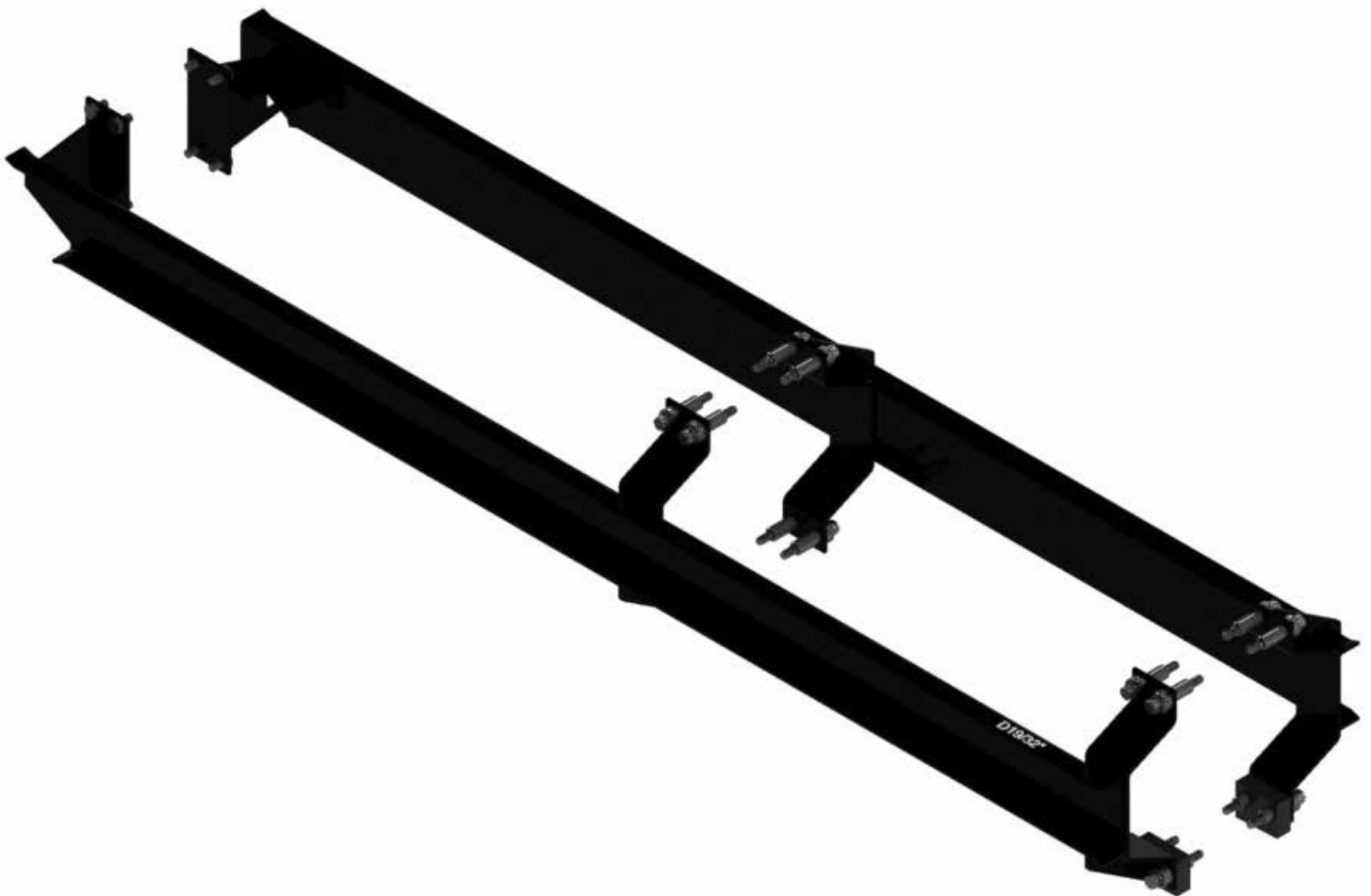


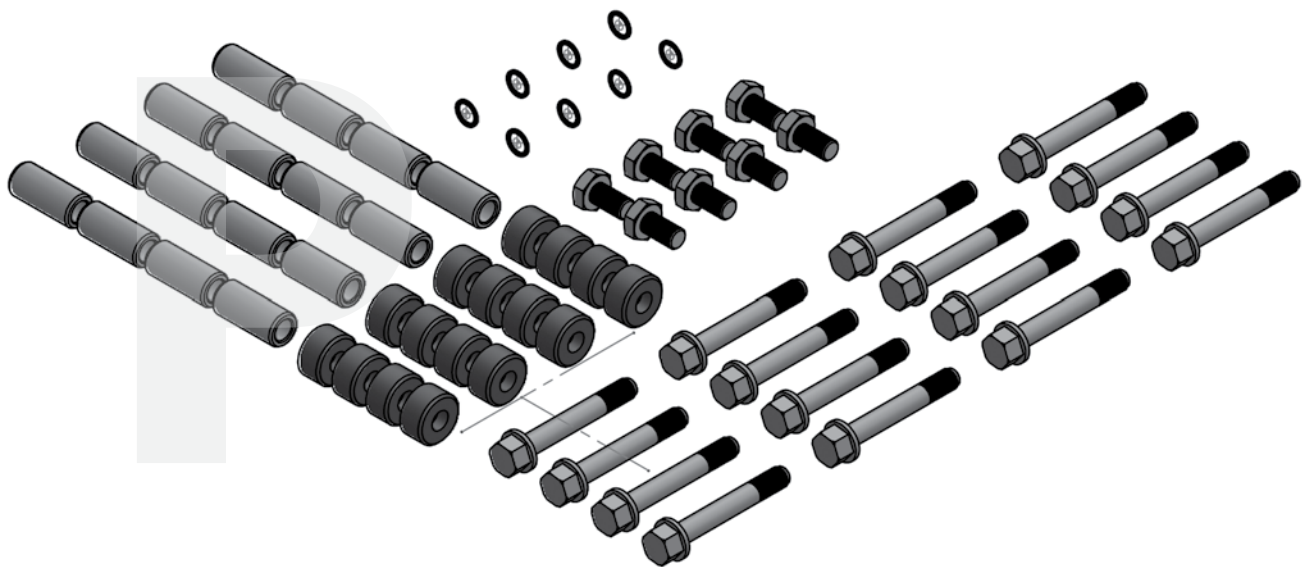
Counterbalance Valve Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	203177	LOWER HYDRAULIC BLOCK/COUNTER BALANCE VALVE	1
2	203122	CBGG-LJN COUNTERBALANCE VALVE	1
3	203124	3/4-1 1/16 - 12 JIC Straight Thread Connectors 37 ° Flare/SAE-ORB 12 F50X	1
4	203112	3/4-1 1/16 - 12 JIC 90 Thread Connectors 37 ° Flare /SAEORB 12 C50X	2
5	203125	G1/4 PLUG	1
6	203172	O-RING 2-214 24.99 X 3.53	1
7	207116	10MM HI COLLAR LOCK WASHER	4
8	207115	10MM-1.5 X 70 SOCKET HEAD CAP SCREW	4
9	203138	12 FNTX-S CAP	2

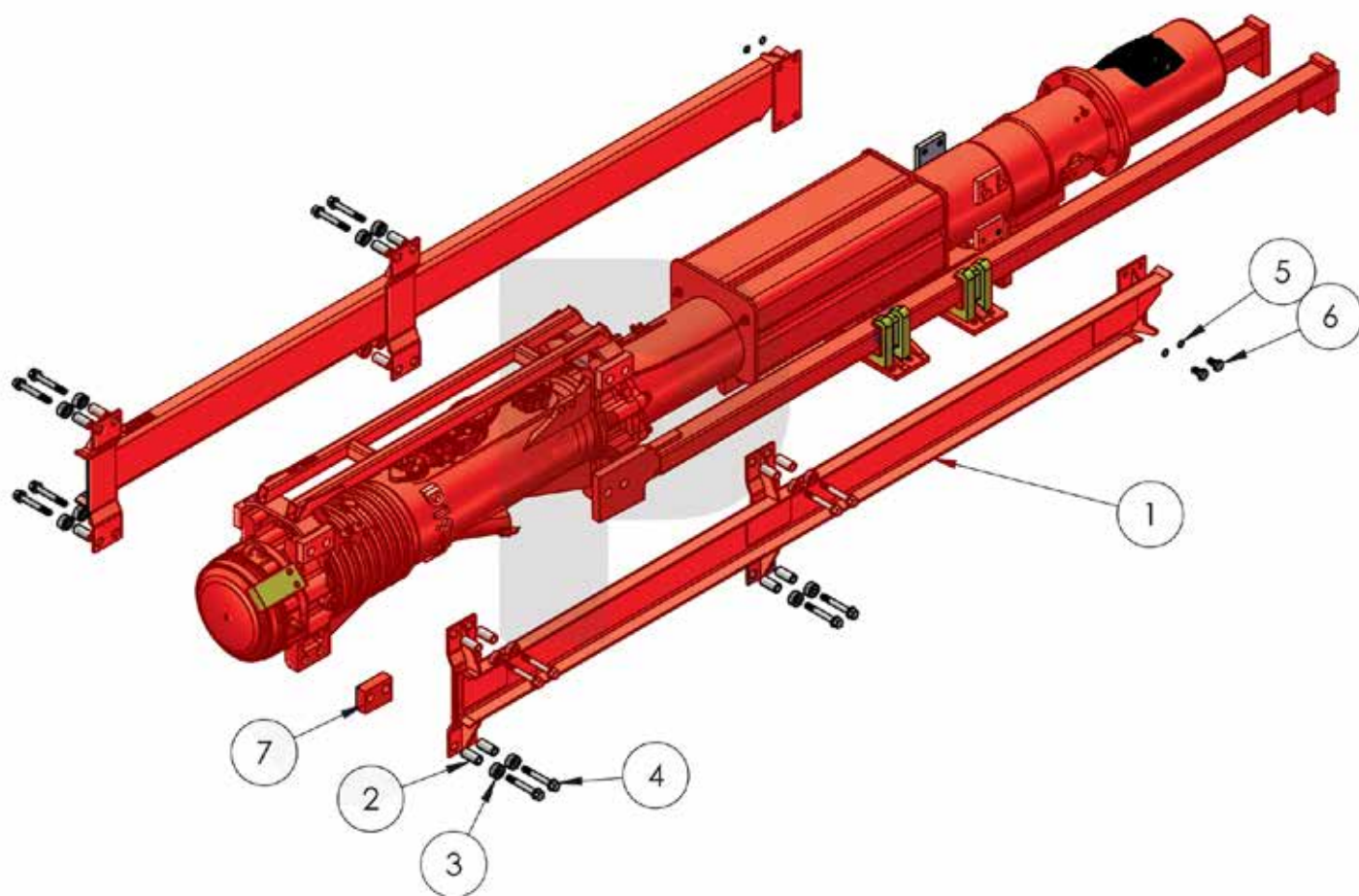
Guides



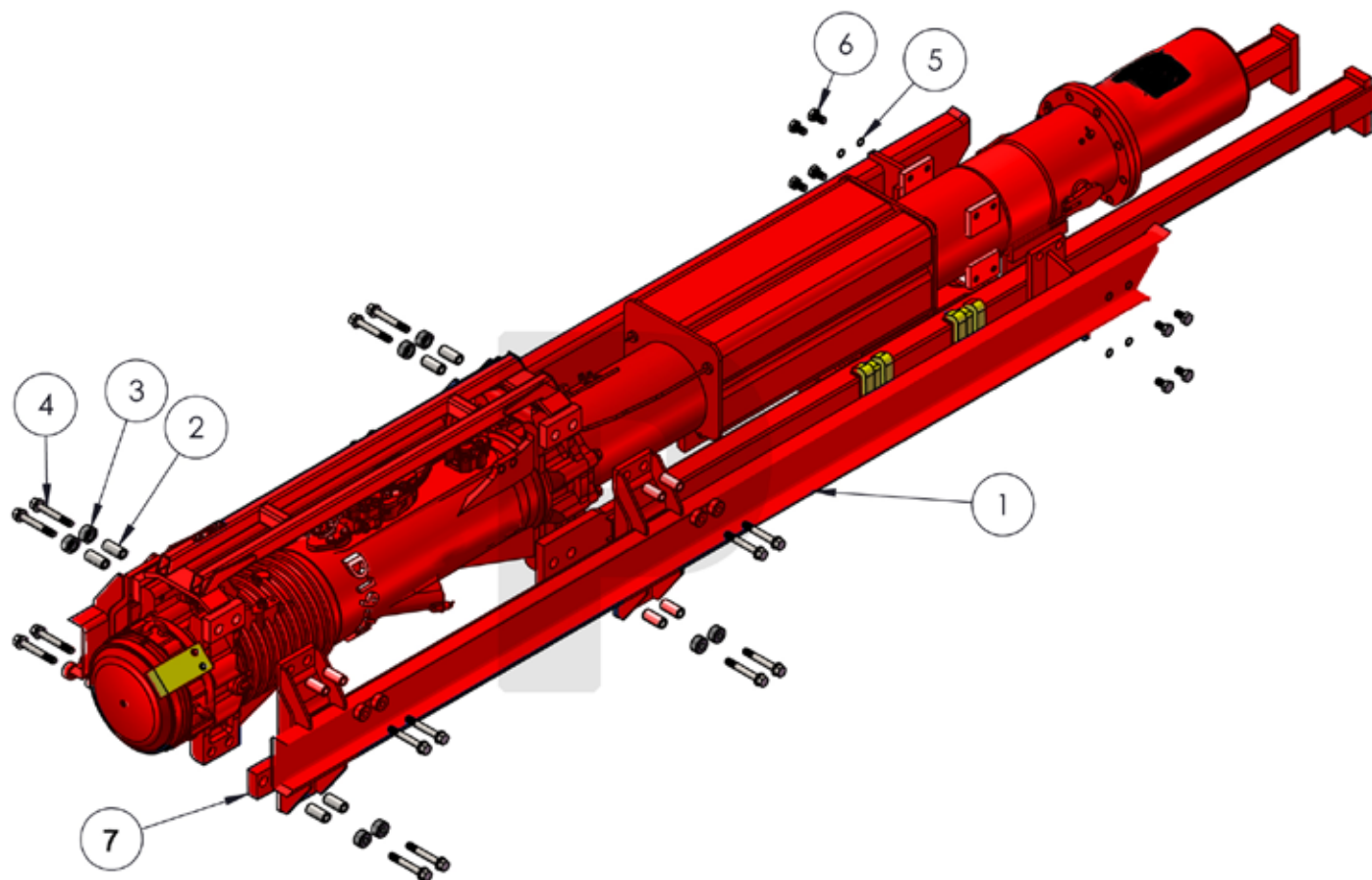
**D19 GUIDING HARDWARE
Assembly Kit**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	39991	SPACER	16
2	95195A	DOWEL PIN	16
3	20174	M24 X 165 HEX BOLT	16
4	203130	24-3.0 X 45 HEX HEAD CAPSCREW	8
5	203131	24MM SCHNORR SAFETY WASHER	8

D19 U-21 X 8 LEAD GUIDING Assembly

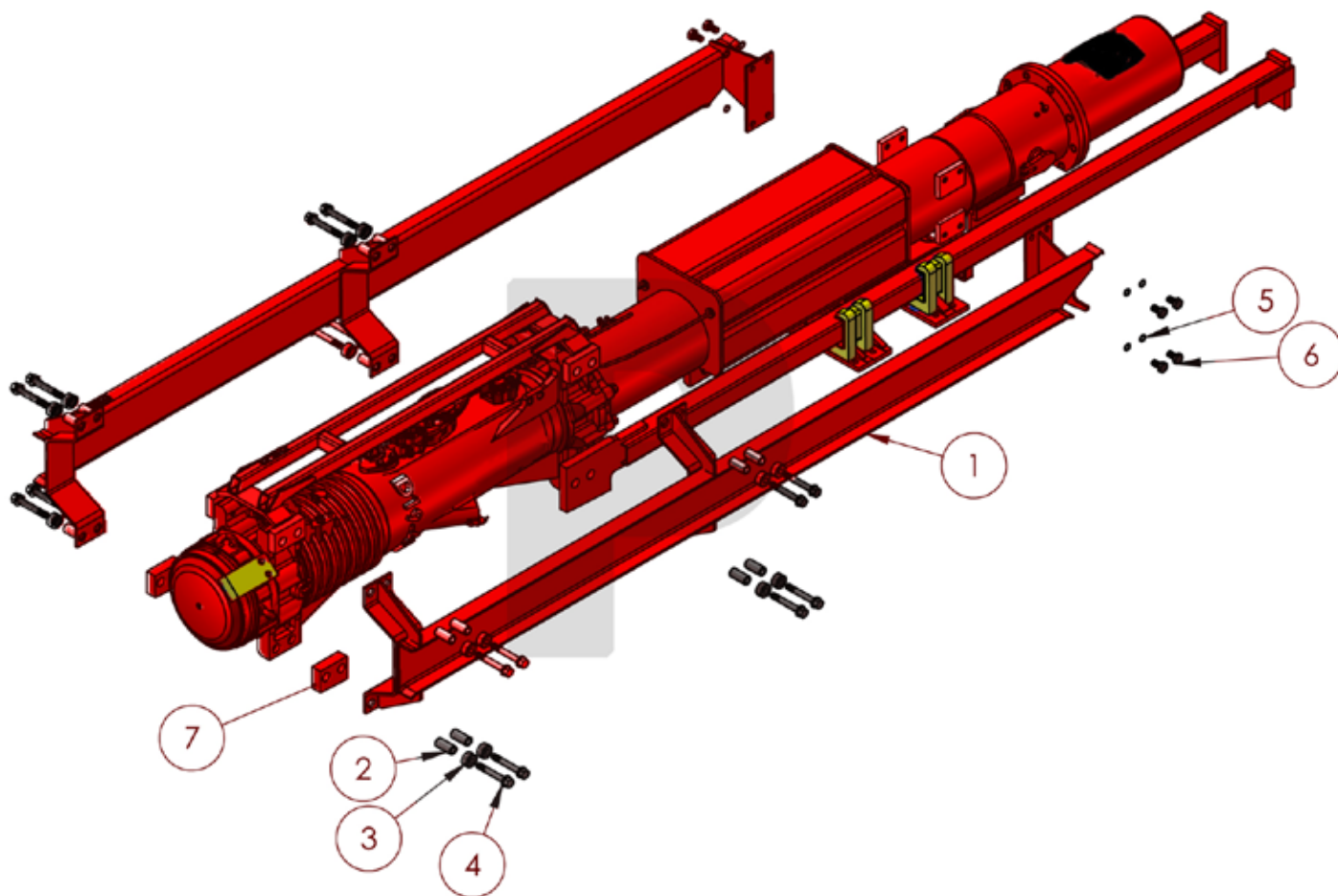


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	203202	U-21 GUIDING	1
2	95195A	DOWEL PIN	16
3	39991	SPACER	16
4	20174	M24 X 165 HEX BOLT	16
5	203131	24MM SCHNORR SAFETY WASHER	8
6	203130	24-3.0 X 45 HEX HEAD CAPSCREW	8
7	203206	SPACER BLOCK	2

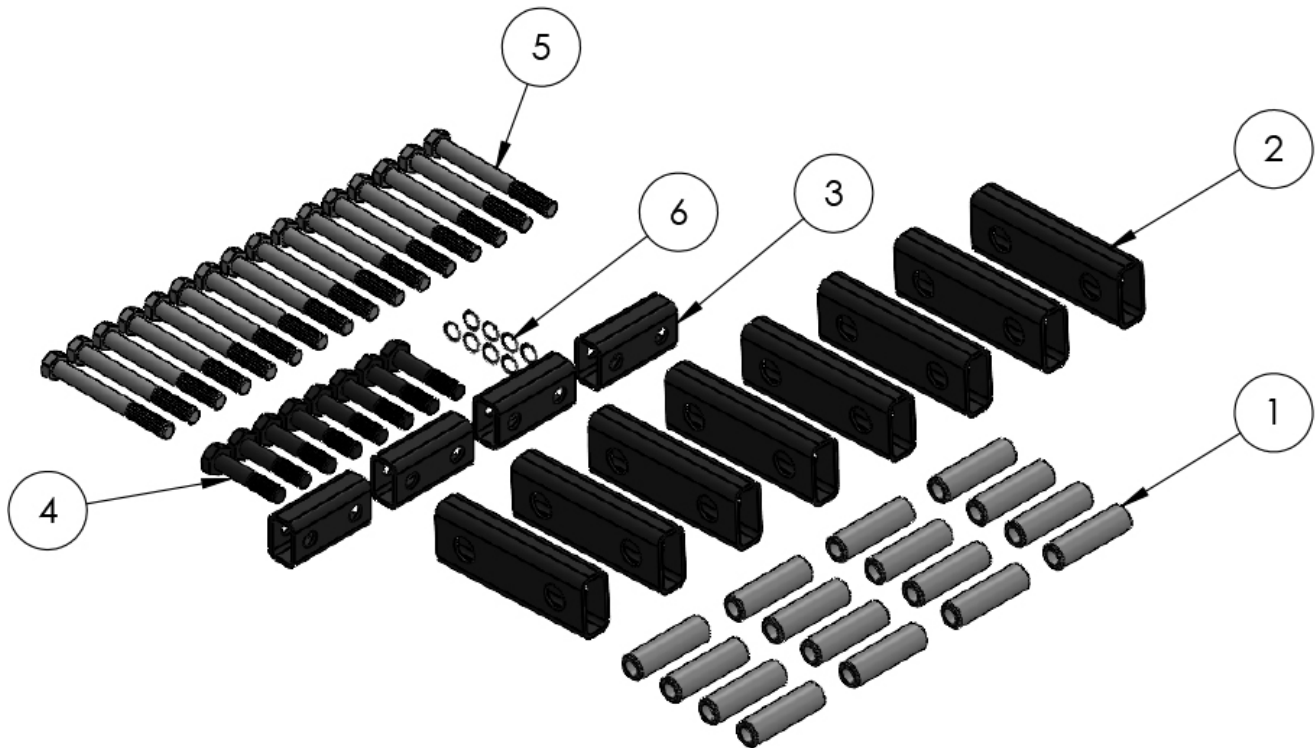
**D19 U-26 X 8 LEAD GUIDING
Assembly**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	203203	U-26 GUIDING SET	1
2	95195A	DOWEL PIN	16
3	39991	SPACER	16
4	20174	M24 X 165 HEX BOLT	16
5	203131	24MM SCHNORR SAFETY WASHER	8
6	203130	24-3.0 X 45 HEX HEAD CAPSCREW	8
7	203206	SPACER BLOCK	2

D19 U-32 X 8 LEAD GUIDING Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	203204	U-32 LEAD GUIDING SET	1
2	95195A	DOWEL PIN	16
3	39991	SPACER	16
4	20174	M24 X 165 HEX BOLT	16
5	203131	24MM SCHNORR SAFETY WASHER	8
6	203130	24-3.0 X 45 HEX HEAD CAPSCREW	8
7	203206	SPACER BLOCK	2

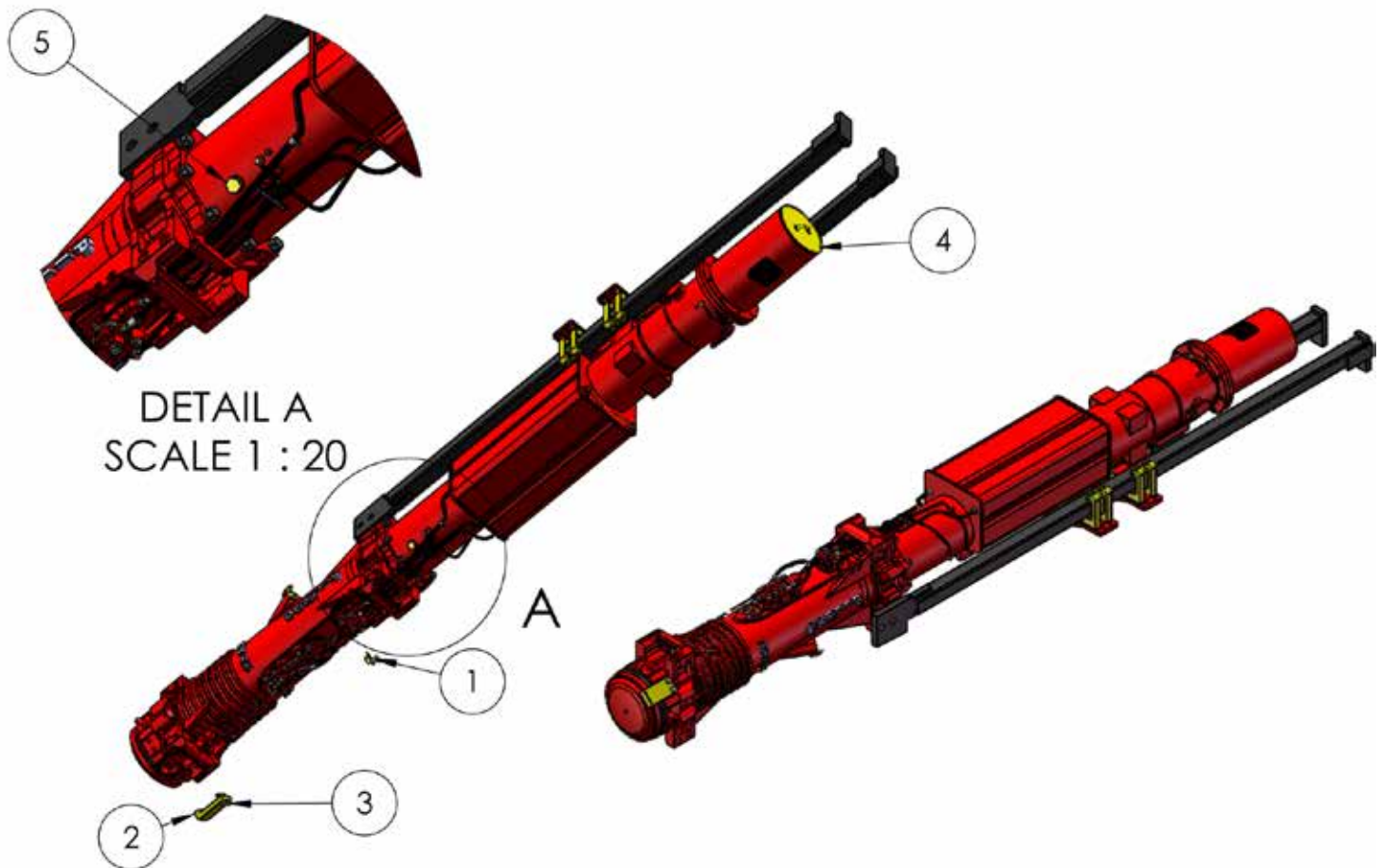
**SPACER BLOCK KIT 6"**
Assembly

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	95195-C	DOWEL PIN	16
2	8005905	2 X 4 X 1/4 X 11 1/2" RECTANGLE TUBE	8
3	8005907	2 X 3 X 1/4 X 6 SQ TUBE	4
4	91929	M24 X 120 HEX HEAD CAPSCREW	8
5	8005912	24-3.0MM X 220 HEX HEAD CAPSCREW 10.9	16
6	203131	24MM SCHNORR SAFETY WASHER	8

Transportation Protection

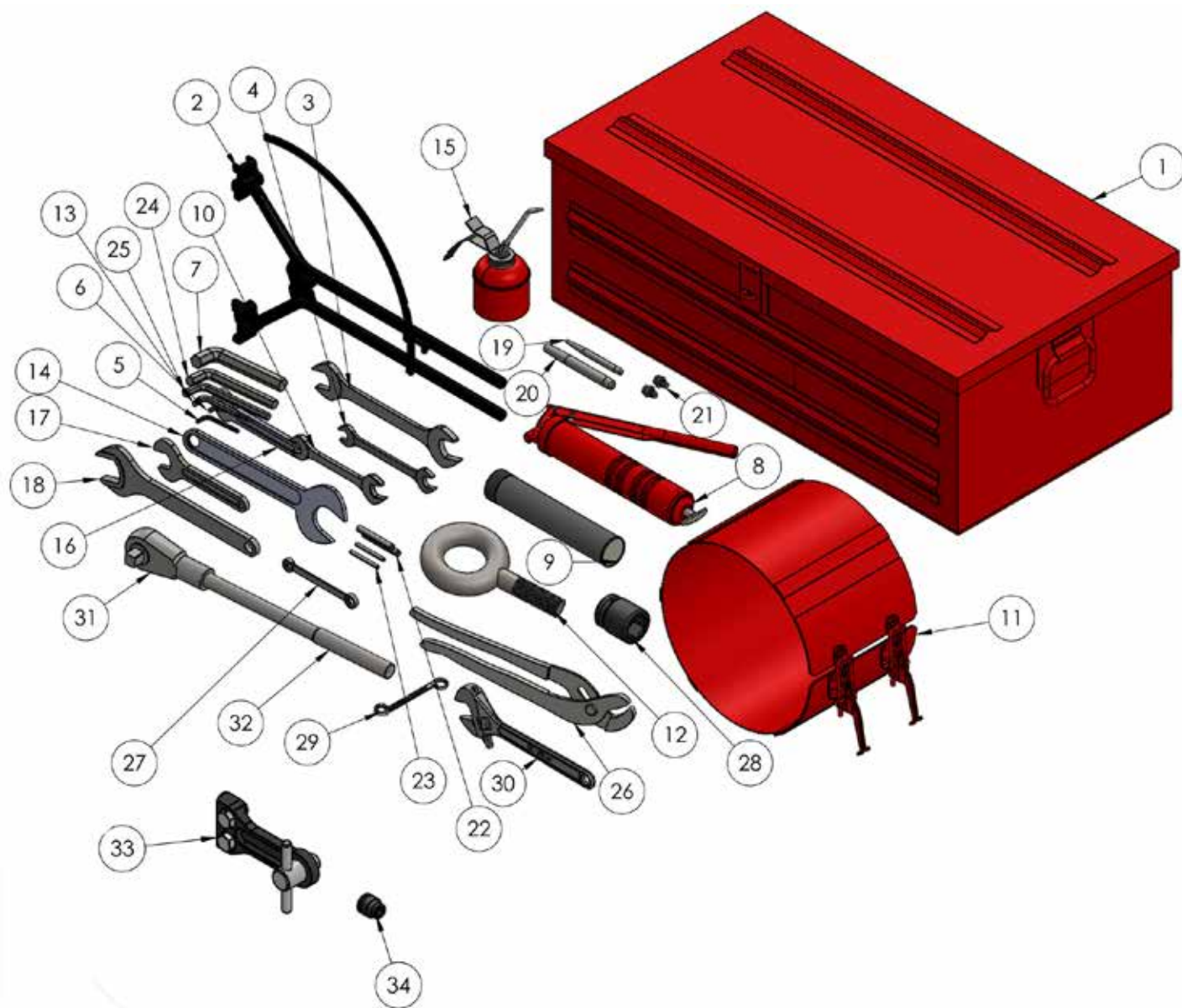


Transportation Protection Complete



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	104963	EXHAUST COVER COMPLETE	2
2	102144	IMPACT BLOCK SECURING CLAMP	1
3	22702	24MM-3 X 60 HEX HEAD CAPSCREW	2
4	136688	COVER	1
5	16890	LOCKING SCREW	1

Tool Box



Tool box Continued.....



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8002385	TOOL BOX PART	1
2	626	PISTON RING FITTING PLIERS COMPLETE	1
3	90655	30 X 32 DOUBLE ENDED OPEN WRENCH	1
4	92015	17 X 19 DOUBLE ENDED OPEN WRENCH	1
5	90055	5MM HEX KEY	1
6	90862	6MM HEX KEY	1
7	90194	19MM HEX KEY	1
8	90795	GREASE GUN, 14 OZ	1
9	93551	MOLYLUBE GREASE	1
10	90443	19 X 22 OPEN END WRENCH	1
11	203014	PISTON RING BAND	1
12	91336	M30 RING SCREW	1
13	90657	8MM HEX KEY	1
14	90184	46MM WRENCH	1
15	93600	OIL CAN	1
16	95071	17MM WRENCH SINGLE OPEN END	1
17	90465	27MM SINGLE ENDED OPEN WRENCH	1
18	205015	41MM SINGLE ENDED OPEN WRENCH	1
19	90354	PUNCH 4/8 DIAMETER	1
20	93349	PUNCH 12/16 DIAMETER	1
21	90791	GREASE NIPPLE M10 X 1	2
22	91321	10MM X 75 ROLL PIN	2
23	90160	6MM X 60 ROLL PIN	2
24	90079	14MM HEX KEY	1
25	90496	10MM HEX KEY	1
26	90785	PLIERS A19	1
27	261513	13 X 15 DOUBLE ENDED RING WRENCH	1
28	94461	IMPACT SOCKET 36MM	1
29	95834	WRENCH 22 X 24	1
30	93352	SPANNER 375×46	1
31	90196	RACHET	1
32	205014	BAR 525X20	1
33	22700	ASSEMBLY PLATE COMPLETE	
34	205016	IMPACT SOCKET 19MM	