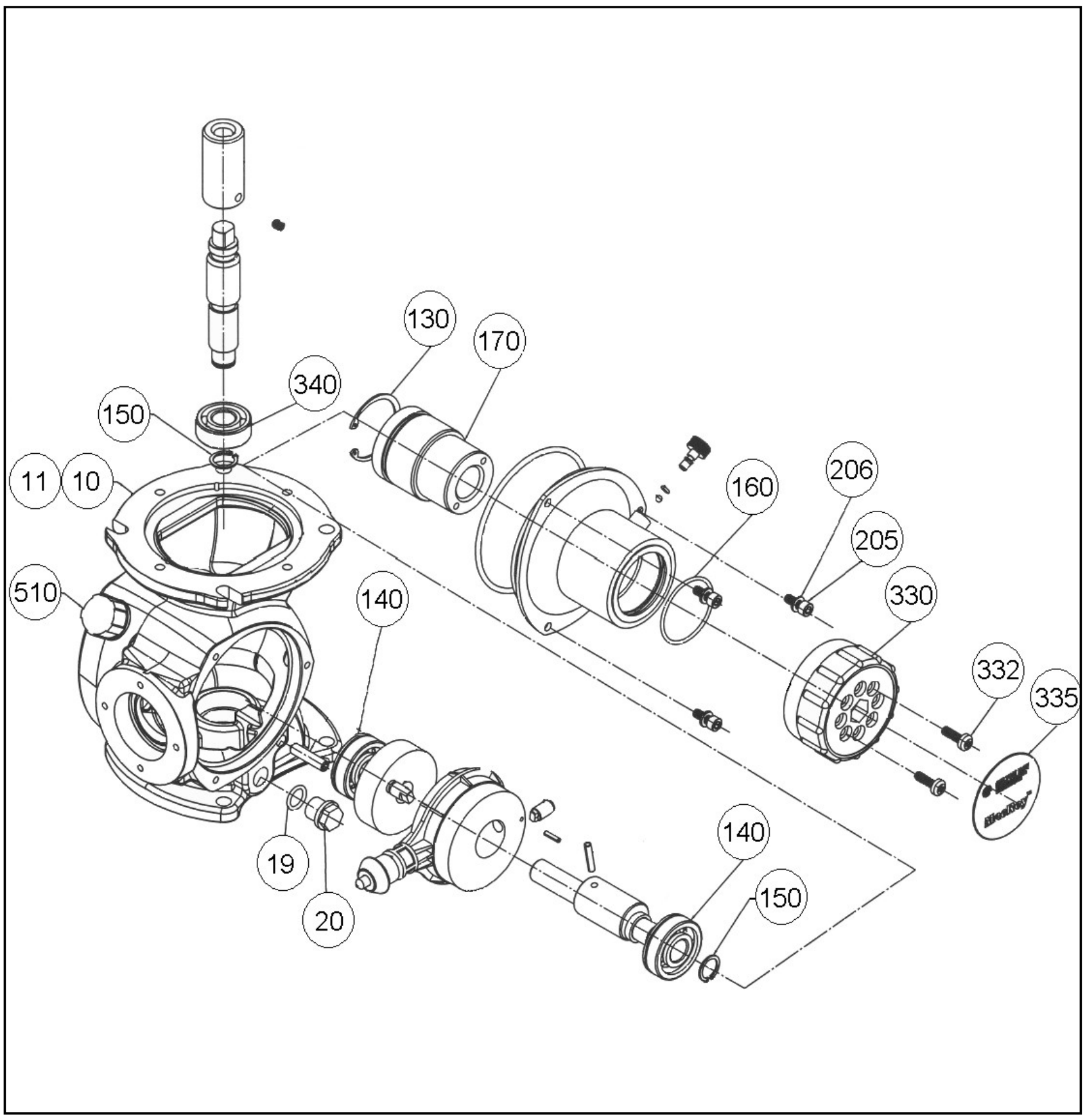


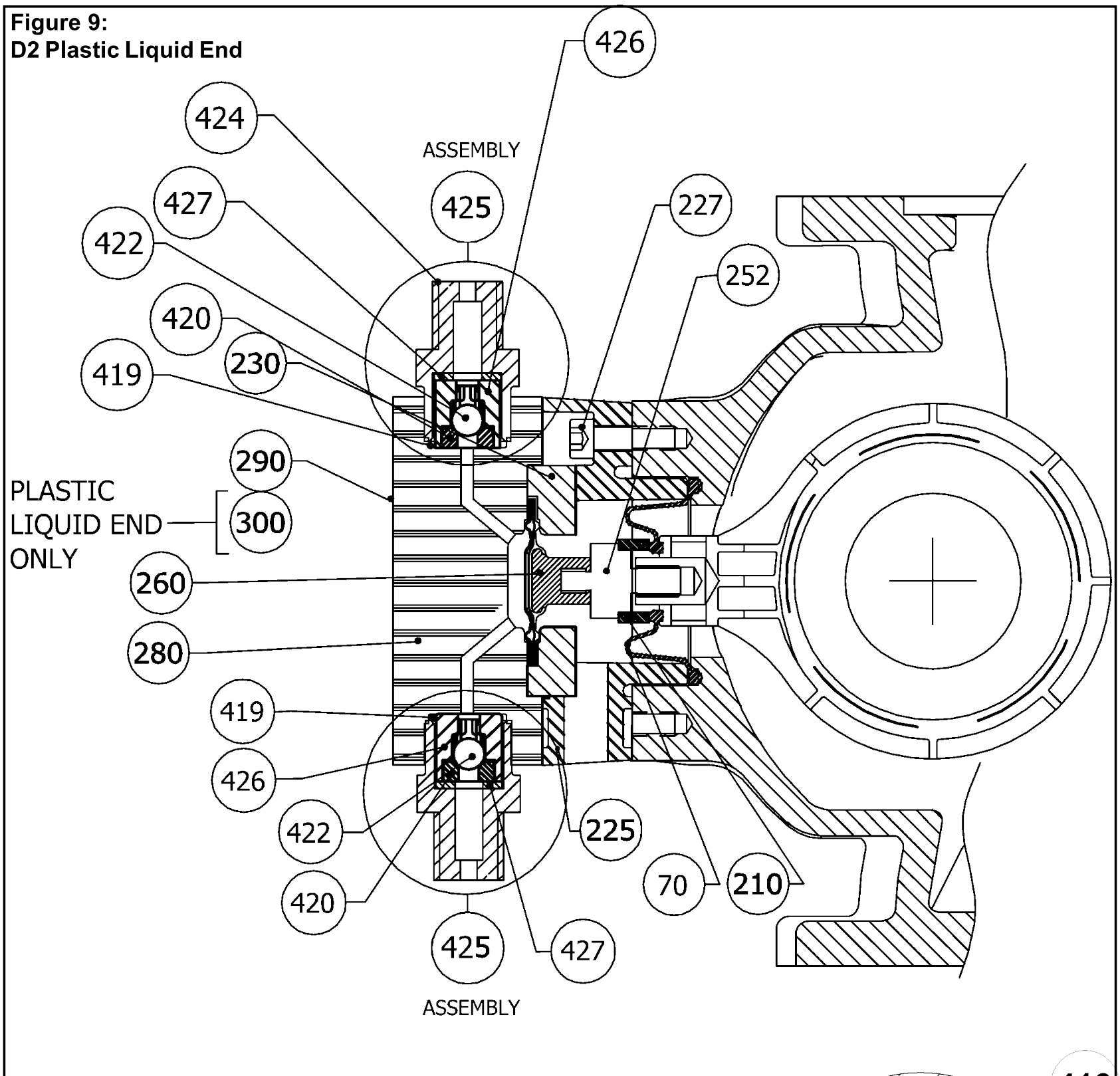
Figure 8. Drive Assembly

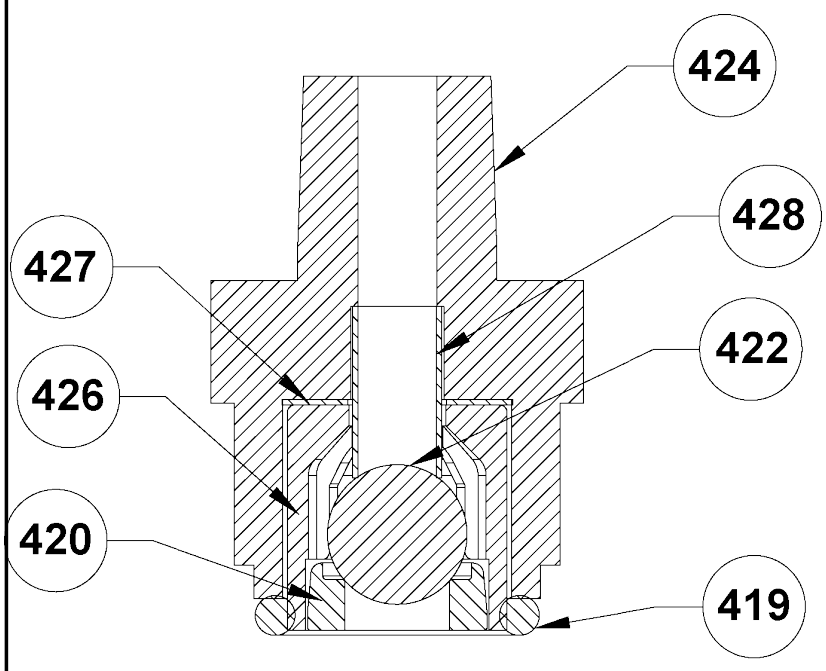
5.1 PARTS LIST FOR DRIVE

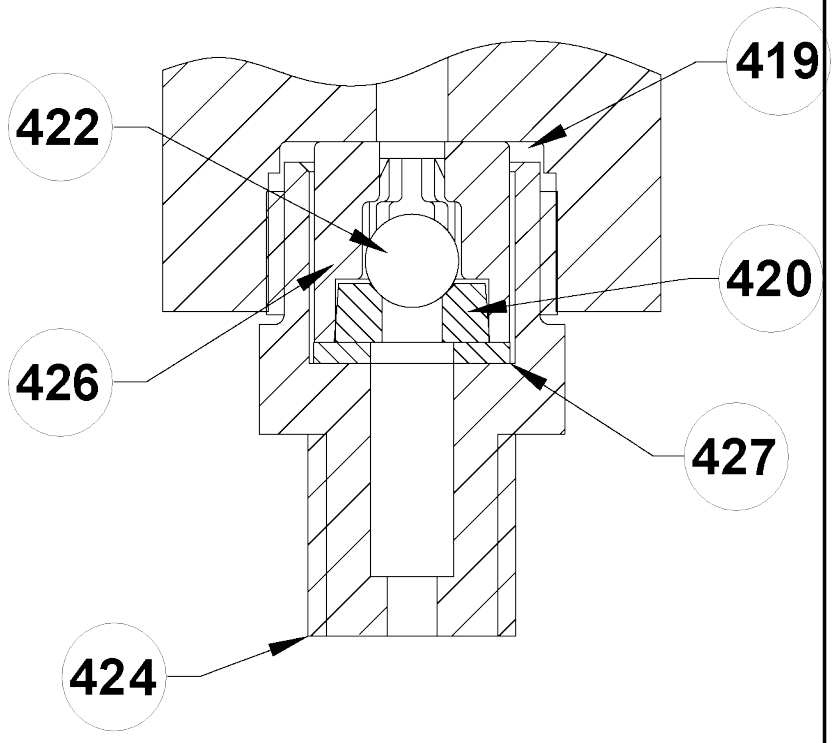
FIGURE NUMBER	ITEM NUMBER	DESCRIPTION	PART NUMBER	QUANTITY PUMP
8	10	Drive Housing Assembly, D2, 43 SPM, (NE56C)	SD-40-01-NE56C	1
		Drive Housing Assembly, D2, 43 SPM, (IEC71)	SD-40-01-IEC71	1
		Drive Housing Assembly, D2, 86 SPM, (NE56C)	SD-20-01-NE56C	1
		Drive Housing Assembly, D2, 86 SPM, (IEC71)	SD-20-01-IEC71	1
		Drive Housing Assembly, D2, 173 SPM, (NE56C)	SD-10-01-NE56C	1
		Drive Housing Assembly, D2, 173 SPM, (IEC71)	SD-10-01-IEC71	1
		Drive Housing Assembly, D2, 120 SPM, (NE56C)	SD-15-01-NE56C	1
		Drive Housing Assembly, D2, 120 SPM, (IEC71)	SD-15-01-IEC71	1
		Drive Housing Assembly, D4/7, 43 SPM, (NE56C)	SD-40-06-NE56C	1
		Drive Housing Assembly, D4/7, 43 SPM, (IEC71)	SD-40-06-IEC71	1
		Drive Housing Assembly, D4/7, 86 SPM, (NE56C)	SD-20-06-NE56C	1
		Drive Housing Assembly, D4/7, 86 SPM, (IEC71)	SD-20-06-IEC71	1
		Drive Housing Assembly, D4/7, 173 SPM, (NE56C)	SD-10-06-NE56C	1
		Drive Housing Assembly, D4/7, 173 SPM, (IEC71)	SD-10-06-IEC71	1
		Drive Housing Assembly, D4/7, 120 SPM, (NE56C)	SD-15-06-NE56C	1
		Drive Housing Assembly, D4/7, 120 SPM, (IEC71)	SD-15-06-IEC71	1
		Drive Housing Assembly, D8, 43 SPM, (NE56C)	SD-40-10-NE56C	1
		Drive Housing Assembly, D8, 43 SPM, (IEC71)	SD-40-10-IEC71	1
		Drive Housing Assembly, D8, 86 SPM, (NE56C)	SD-20-10-NE56C	1
		Drive Housing Assembly, D8, 86 SPM, (IEC71)	SD-20-10-IEC-71	1
		Drive Housing Assembly, D8, 173 SPM, (NE56C)	SD-10-10-NE56C	1
		Drive Housing Assembly, D8, 173 SPM, (IEC71)	SD-10-10-IEC71	1
		Drive Housing Assembly, D8, 120 SPM, (NE56C)	SD-15-10-NE56C	1
		Drive Housing Assembly, D8, 120 SPM, (IEC71)	SD-15-10-IEC71	1
	11	Gasket Motor (NEMA 56C Flanged Motor)	2250115099	1
	11	Gasket Motor (IEC71, V1 Flanged Motor)	2250121099	1
	19	O-Ring	4080068031	1
	20	Oil Drain Plug	60086	1
	130	Retaining Ring	60064	1
	140	Bearing	4099994000	2
	150	Retaining Ring	4040107231	2
	160	Seal, Side Cover	2502110067N	1
	170	Stroke Adjust Screw	61331	1
	205	Socket Head Screw, M6 X 16, 304SS	4350003375N	3
	206	Washer M6 304SS	4340009065N	3
	330	Stroke Adjust Knob	70066	1
	332	Pan Head Screw, M6 X 20	70054	2
	335	Knob, Sticker MacRoy	60996	1
	340	Bearing	61116	1
	-	Spring Pin (for IEC Motors Only)	4010003031	3
	-	Motor Mounting Bolt (IEC Motors: M8 X 25)	4350038522	4
	-	Motor Mounting Bolt (NEMA 56C Motors: 3/8-16 X 1)	4050018119	4
	-	Motor Mount Washer (IEC Motors: Spring Lockwasher 8mm)	4340009002	4
	-	Motor Mount Washer (NEMA 56C Motors: 3/8 SAE)	40476	4
	-	Base (Optional)	61266	1
	-	HEX HD, Screw, 3/8-16X1 GR5	4050018119	4
	-	Washer, 3/8	40476	4
	-	HEX Nut, 3/8-16NC Z PL	4050066016	4
	-	Gear Oil - 1 quart	4070324030	1
	510	Breather Plug/Oil Fill Cap, P/O Item 10	41065	1

- Items not shown.

Figure 9:
D2 Plastic Liquid End







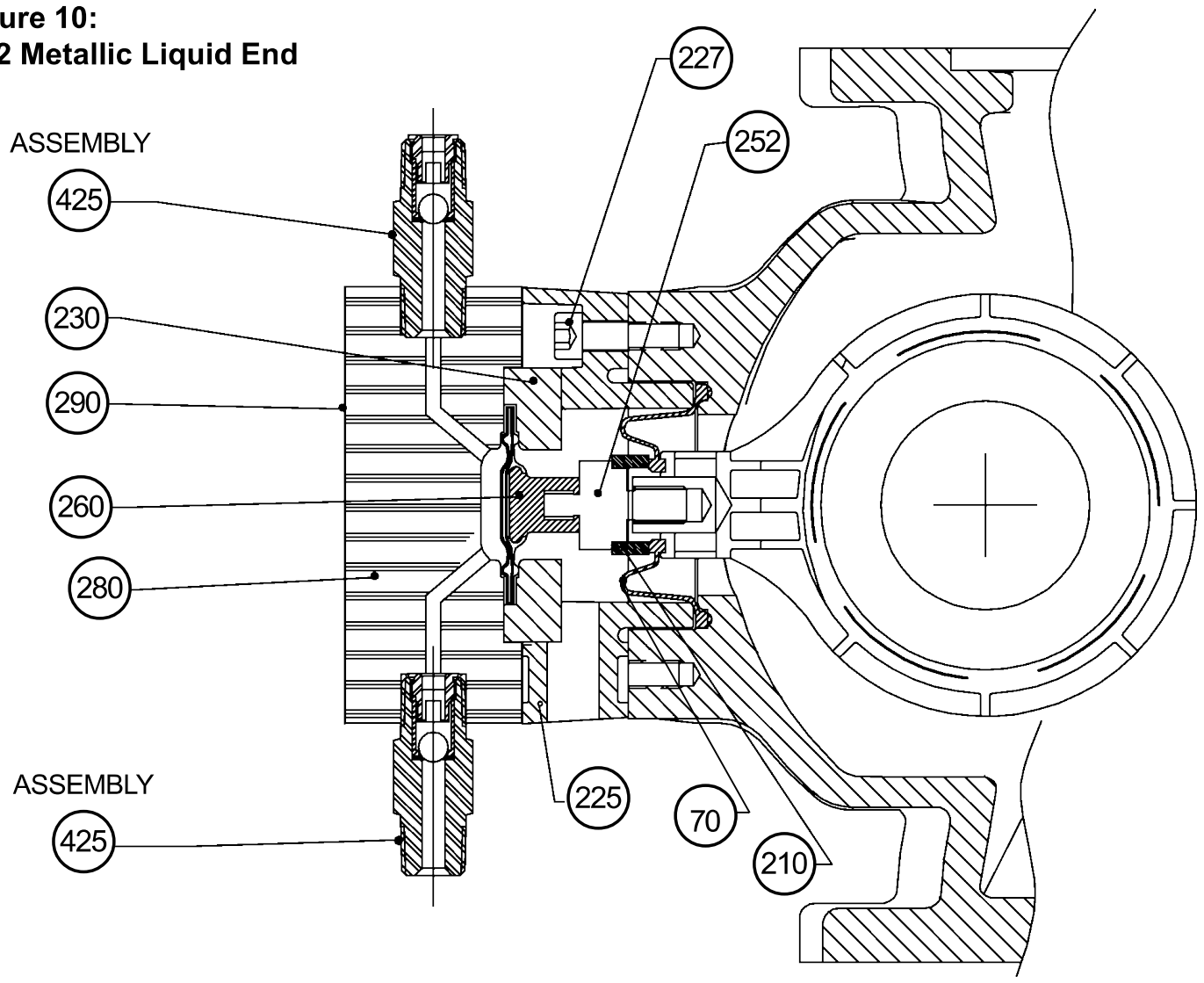
5.2 PARTS LIST FOR D2 PLASTIC LIQUID END PVC, PVDF, H_2SO_4, AND POLYMER-NPT / PVC, PVDF - TUBING.

Model:	Reference Code:	Model:	Reference Code:
D2_ _ 8P _ _ _ _	A (PVC NPT)	D2_ _ NP _ _ _ _	E (H_2SO_4 NPT)
D2_ _ 8T _ _ _ _	B (PVC TUBE)	D2_ _ PP _ _ _ _	F (POLYMER NPT)
D2_ _ 2P _ _ _ _	C (PVDF NPT)		
D2_ _ 2T _ _ _ _	D (PVDF TUBE)		

FIGURE NUMBER	ITEM NUMBER	DESCRIPTION	PART NUMBER	QUANTITY	REF. CODE
9	70	Diaphragm/Oil Seal Bellows	60048	1	
	210	Oil Seal Clamp Ring	60043	1	
	225	Spacer	61035	1	
	227	Pan Head Screw, M6 X 20	70054	4	
	230	Diaphragm Seat Ring	61088	1	
	252	Adapter	61083	1	
	260	Diaphragm, PTFE	30916	1	
	280	Diaphragm Head, PVC	61089	1	A, B, E
	280	Diaphragm Head, PVDF	61090	1	C, D
	280	Diaphragm Head, POLYMER	69001	1	F
	-281	Decal	60534	1	
	290	Pan Head Screw, #10-24 X 3/4	61059	1	
	300	Flat Washer, 1/4 18.8SS	4040005012	4	A, E
	300	Flat Washer, #10 18.8SS	4040002053	4	B, C, D
	419	O-Ring, 0.549 ID X 103W(AFLAS)	36103	4	
	419	O-Ring, 2-113 Viton	40905	2	F
	420	Ball Seat, 9/32 Ball, C-22	61107	2	A, B, C, D
	420	Ball Seat, CA20	61439	2	E
	420	Ball Seat, 3/8 Ball, 316SS	61270	2	F
	422	Ball 9/32 Ceramic	35751	2	A, B, C, D,
	422	Ball 9/32, CA20	41655	2	E
	422	Ball 3/8, 316SS	4070014112	2	F
	424	Valve Body 1/4" NPT	36106	2	A, C, E, F
	424	Fitting, 1/4 PVDF	36081	2	B, D
	425	Check Valve Assembly, PVC/PVDF - NPT	61141	2	A, C
	425	Check Valve Assembly, PVC/PVDF - TUBE	61142	2	B, D
	426	Ball Cartridge	36113	2	A, B, C, E
	426	Ball Cartridge	36116	2	F
	427	Molded Washer, Cartridge Valve	36107	2	
	428	Spring, HAST-C	61275	2	F
	-435	Coupling Nut, PP 3/8	10299	2	B, D
	-445	Ferrule, 1/4" OD	28663	2	B, D
	-	Liquid End Kit, PVC/PVDF/H_2SO_4	RPM 099	2	A, B, C, D, E
	-	Liquid End Kit, POLYMER	RPM 196	1	F

- Items not shown.

Figure 10:
SD2 Metallic Liquid End



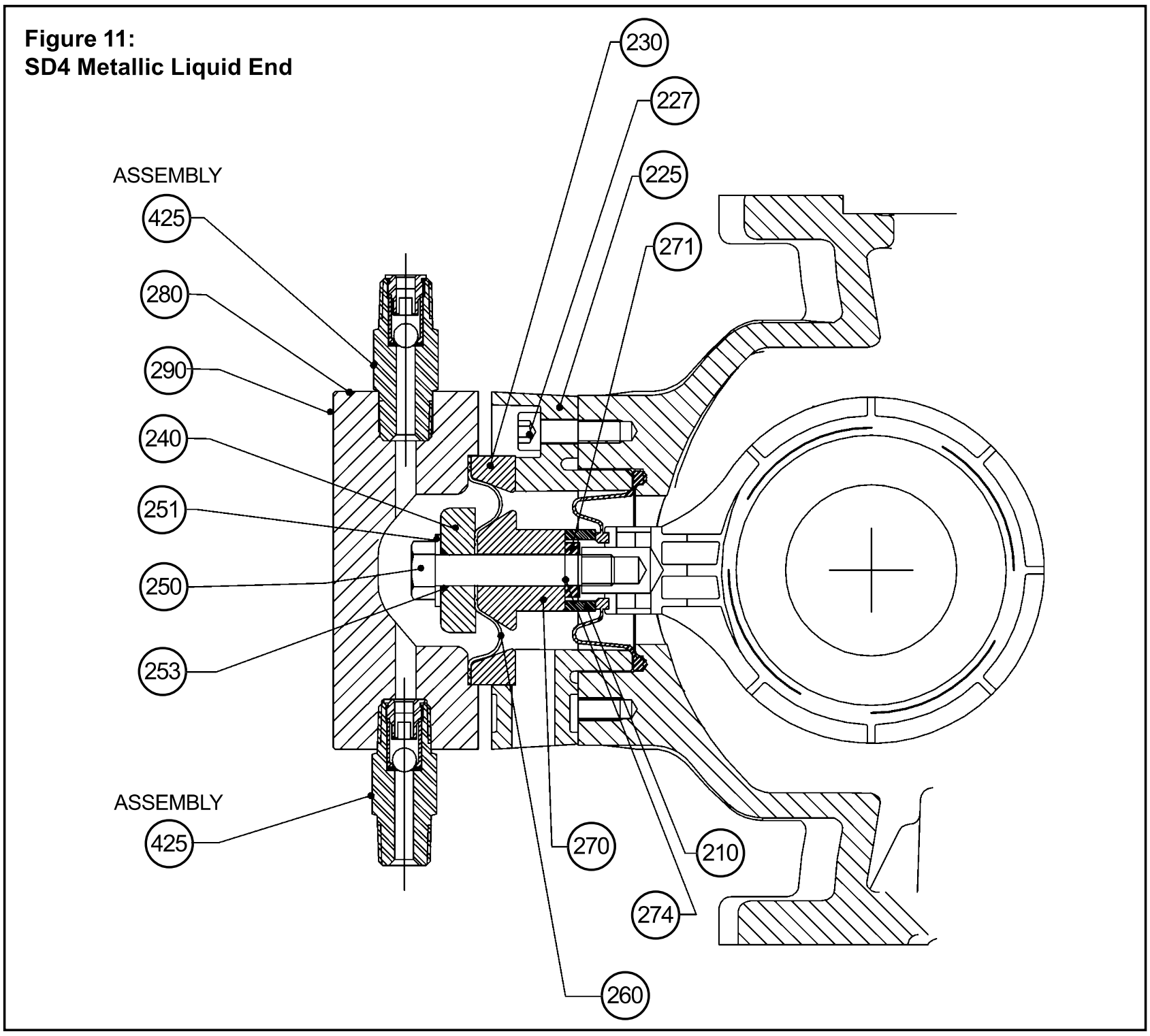
5.3 PARTS LIST FOR SD2 METALLIC LIQUID END STAINLESS STEEL-NPT

Model: SD2 _ _ 7P

FIGURE NUMBER	ITEM NUMBER	DESCRIPTION	PART NUMBER	QUANTITY PUMP	REFERENCE CODE
10	70	Diaphragm/Oil Seal Bellows	60048	1	
	210	Oil Seal Clamp Ring	60043	1	
	225	Spacer	61035	1	
	227	Pan Head Screw, M6 X 20	70054	4	
	230	Diaphragm Seat Ring	61088	1	
	252	Adapter	61083	1	
	260	Diaphragm	30916	1	
	280	Diaphragm Head	61106	1	
	290	Pan Head Screw, #10-24 X 3/4	61059	4	
	425	Check Valve Assembly - NPT	21082	2	
	-	Liquid End Kit, 316 SS	RPM 101	1	

- Items not shown.

Figure 11:
SD4 Metallic Liquid End



5.4 PARTS LIST FOR SD4 METALLIC LIQUID END STAINLESS STEEL-NPT

Model: SD4 _ _ 7P

FIGURE NUMBER	ITEM NUMBER	DESCRIPTION	PART NUMBER	QUANTITY PUMP	REFERENCE CODE
11	210	Oil Seal Clamp Ring	60043	1	
	225	Spacer	61035	1	
	227	Pan Head Screw, M6 X 20	70054	4	
	230	Supporting Ring	61075	1	
	240	Diaphragm Cap, 316SS	61074	1	
	250	Hex Head Screw, M8 X 50, 316SS	61071	1	
	251	Washer, 8M, 316SS	61072	1	
	253	O-Ring, Viton	61073	1	
	260	Diaphragm	60995	1	
	270	Support Nut, 316SS	61051	1	
	271	Hex Nut, M8 Thin	61054	1	
	274	PTFE Washer	61055	1	
	280	Diaphragm Head, 316SS	61070	1	

- Items not shown.

5.4 PARTS LIST FOR D4 METALLIC LIQUID END STAINLESS STEEL-NPT

Model: D4 _ _ 7P _ _ _ _ A (316SS)

FIGURE NUMBER	ITEM NUMBER	DESCRIPTION	PART NUMBER	QUANTITY PUMP	REFERENCE CODE
11	290	Pan Head Screw, #10-24 X 3/4	61059	4	
	425	Check Valve Assembly	CV202294	2	
	-	Liquid End Kit, 316SS	RPM 104	1	

- Items not shown.

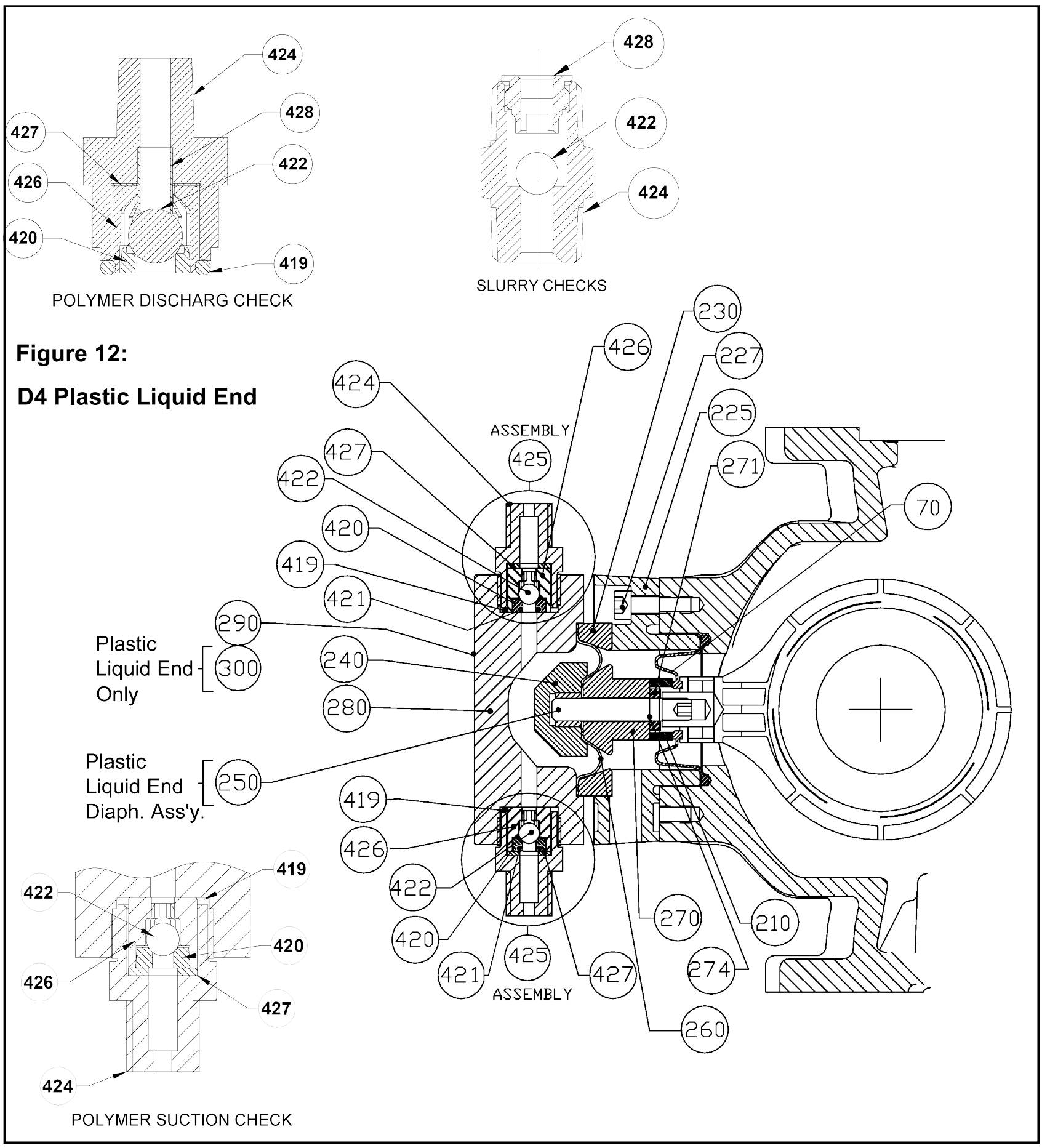


Figure 12:

D4 Plastic Liquid End

5.5 PARTS LIST FOR D4 PLASTIC LIQUID END PVC, PVDF, H_2SO_4, SLURRY, AND POLYMER-NPT / PVC, PVDF, AND , H_2SO_4-TUBING.

Model:	Reference Code:	Model:	Reference Code:
D4_ _ 8P _ _ _ _	A (PVC NPT)	D4_ _ NP _ _ _ _	E (H_2SO_4 NPT)
D4_ _ 8T _ _ _ _	B (PVC TUBE)	D4_ _ NT _ _ _ _	F (H_2SO_4 TUBE)
D4_ _ 2P _ _ _ _	C (PVDF NPT)	D4_ _ PP _ _ _ _	G (POLYMER)
D4_ _ 2T _ _ _ _	D (PVDF TUBE)	D4 _ _ LP _ _ _ _	H (SLURRY)

FIGURE NUMBER	ITEM NUMBER	DESCRIPTION	PART NUMBER	QUANTITY PUMP	REFERENCE CODE
12	70	Diaphragm/Oil Seal Bellows	60048	1	
	210	Oil Seal Clamp Ring	60043	1	
	225	Spacer	61035	1	
	227	Pan Head Screw, M6 X 20	70054	4	
	230	Diaphragm Support Ring	61075	1	
	240	Diaphragm Cap - PVC	61052	1	A, B, E, F, G, H
	240	Diaphragm Cap - 316SS	61074		C, D
	240	Diaphragm Cap - PVDF	61053	1	
	250	Socket Set Screw, M8 X 50	61058	1	H
	250	Socket Set Screw, M8 X 50, 316SS	61071	1	H
	253	O-Ring, 8MM ID, T=2MM, Viton	61073	1	
	260	Diaphragm, PTFE	60995	1	
	270	Support Nut, 316SS	61051	1	
	271	Hex Nut, M8 X 50	61054	1	
	274	Washer, PTFE	61055	1	A, B, E, F, G
	280	Diaphragm Head - PVC	61056	1	C, D
	280	Diaphragm Head - PVDF	61057	1	H
	280	Diaphragm Head - 316SS (SLURRY)	61070	1	
	-	Decal	60534	1	
	-	Decal, EAC Logo	2530118099	1	
	290	Pan Head Screw, #10-24 X 3/4	61059	4	
	300	Flat Washer, #10 18.8SS	404000205	4	E, F
	419	O-Ring, AFLAS	36103	2	G, H
	419	O-Ring, Viton	40905	2	A, B, C, D
	420	Ball Seat, 0.375, PTFE	39425	2	E,F
	420	Ball Seat, 3/8” Ball, CA-20	61316	2	I
	420	Ball Seat, 3/8” Ball, 316SS	61270	2	A, B, C, D
	421	O-Ring, AFLAS	39413	2	A, B, C, D
	422	Ball, 3/8” CERAMIC,+/-.001	10338	2	G
	422	Ball, 3/8” 316SS, Grade 50	4070014112	2	E, F
	422	Ball, 3/8” CA-20, Grade 50	4070014113	2	H
	422	Ball, 7/16” 316SS, P/O 22312, Item 425	CV102313	2	E, G
	424	Fitting, 1/4 PVDF - TUBE	36081	2	F
	424	Fitting, 1/2 PVDF - TUBE	36138	2	H
	424	Check Valve Body, P/O 22312, Item 425	22313	2	A, C
	425*	Check Valve Assembly - NPT, 1/4”	36366	2	B, D
	425*	Check Valve Assembly - TUBE, 1/2”	36360	2	E, F
	425	Check Valve Assembly - H_2SO_4	39461	2	

- Items not shown.

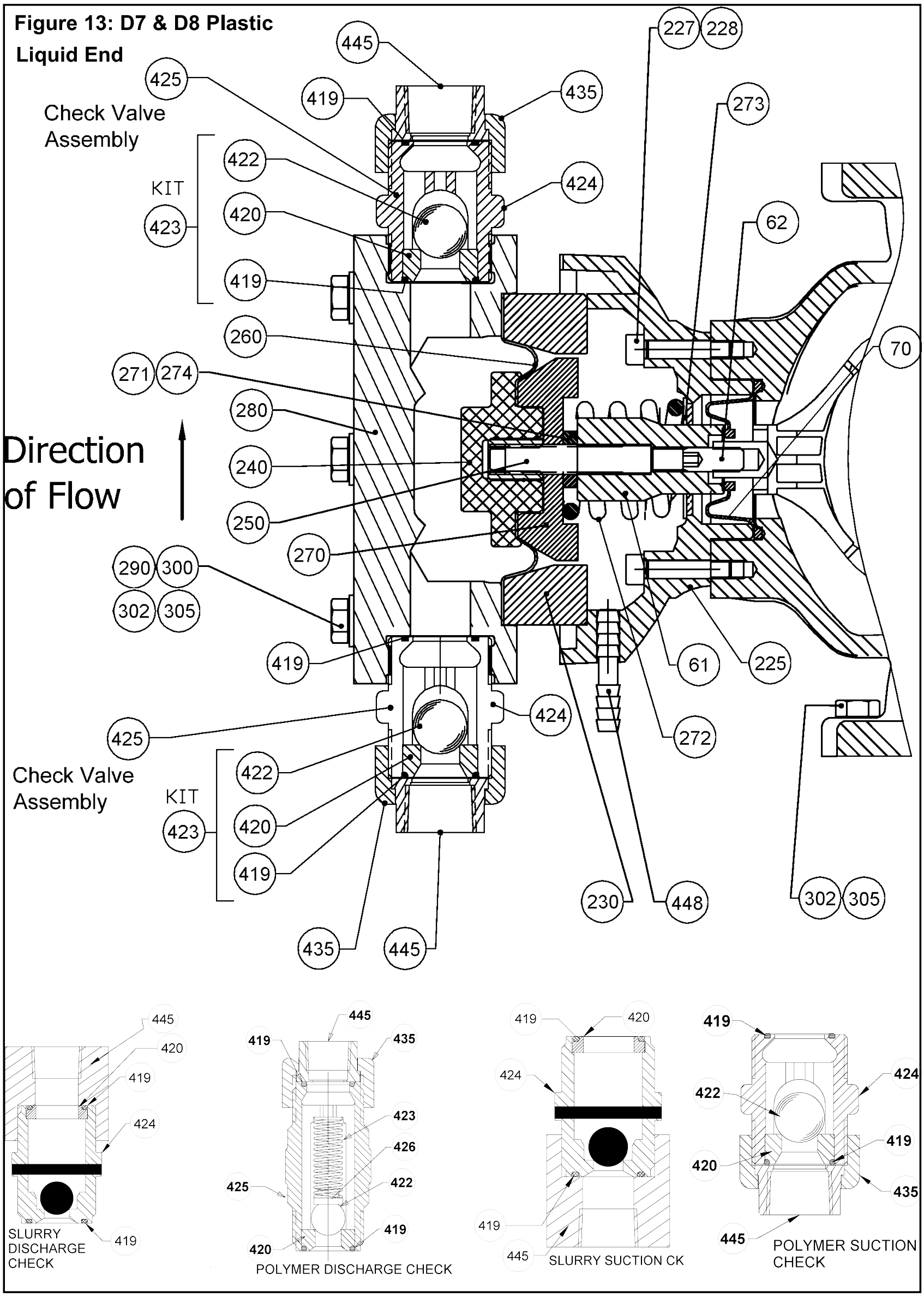
* Item 425 includes items 419, 420, 422, 424, 426, and 427.

5.5 PARTS LIST FOR D4 PLASTIC LIQUID END PVC, PVDF, H_2SO_4, SLURRY, AND POLYMER-NPT / PVC, PVDF, AND , H_2SO_4-TUBING.

Model:	Reference Code:	Model:	Reference Code:
D4_ _ 8P _ _ _ _	A (PVC NPT)	D4_ _ NP _ _ _ _	E (H_2SO_4 NPT)
D4_ _ 8T _ _ _ _	B (PVC TUBE)	D4_ _ NT _ _ _ _	F (H_2SO_4 TUBE)
D4_ _ 2P _ _ _ _	C (PVDF NPT)	D4_ _ PP _ _ _ _	G (POLYMER)
D4_ _ 2T _ _ _ _	D (PVDF TUBE)	D4 _ _ LP _ _ _ _	H (SLURRY)

FIGURE NUMBER	ITEM NUMBER	DESCRIPTION	PART NUMBER	QUANTITY PUMP	REF. CODE
12	425	Check Valve Assembly - SLURRY	22312	2	H
	426	Cartridge, 0.375 PVDF	36116	2	G, H, I
	427	Washer	36107	2	G, H, I
	-	Coupling Nut, 1/2”	10411	2	H
	428	Spring, Lee LC-016C-8-HAST-C, (Suction Only)	61275	1	I
	428	Retainer Sleeve	61071	1	J
	-	Liquid End Kit, PVC, PVDF NPT/TUBE	RPM 102	1	A,B,C,D
	-	Liquid End Kit, H_2SO_4 NPT	RPM 173	1	G
	-	Liquid End Kit, H_2SO_4 TUBE	RPM 174	1	H
	-	Liquid End Kit, POLYMER	RPM 196	1	I
	-	Liquid End Kit, SLURRY	RPM 212	1	J

Figure 13: D7 & D8 Plastic Liquid End



5.6 PARTS LIST FOR D7 AND D8 PLASTIC LIQUID END PVC-NPT/TUBING, PVDF-NPT, POLYMER-NPT, SLURRY-NPT, & H_2SO_4-NPT.

Model:	Reference Code:	Model:	Reference Code:
D7/D8_ _ 8P _ _ _ _	A (PVC NPT)	D7/D8_ _ NP _ _ _ _	D (H_2SO_4 NPT)
D7/D8_ _ 2P _ _ _ _	B (PVDF NPT)	D7/D8_ _ PP _ _ _ _	E (POLYMER NPT)
D7/D8_ _ LP _ _ _ _	C (SLURRY NPT)	D7/D8_ _ 8T _ _ _ _	F (PVC TUBE)
D7/D8_ _ NP _ _ _ _	D (H_2SO_4 NPT)		

FIG. NO.	ITEM NO.	DESCRIPTION	D7 PART NO.	D8 PART NO.	QTY. PUMP	REF. CODE
13	61	Adapter	61155	61155	1	
	62	Socket Head Set Screw, M8 X 20	4350016075N	4350016075N	1	
	70	Oil Seal Bellows	60048	60048	1	
	-	PTFE Seal Ring	61154	61154	1	
	225	Spacer	61156	61156	2	
	227	Socket Head Set Screw, M6 X 16, 304SS	4350003375N	4350003375N	2	
	228	Socket Head Set Screw, M6 X 30, 304SS	4350047395N	4350047395N	1	
	230	Diaphragm Support Ring	60035	60070	1	
	240	Diaphragm Cap - PVC	60628	60633		A, C, D, E,
					1	F
	240	Diaphragm Cap - PVDF	60630	60635	1	B
	250	Socket Set Screw, Dog PT M10 X 45	4350071284	4350071284	1	
	260	Diaphragm, PTFE	60618	60624	1	
	270	Support Nut	61065	61146	1	
	271	Hex Nut, M10 Thin, 316SS	61068	61068	1	
	272	Spring	70081	70081	1	
	273	Spring Cup	61153	61153	1	
	280	Head PVC	60033	61148	1	A, C, D, E,
						F
	280	Head PVDF	60031	61147	1	B
	281	Decal, Tighten MacRoy Plastic	60534	60534	1	
	282	Decal, EAC Logo	2530118099	2530118099	6	
	290	Hex Head Screw, M8 X 110mm, LG 304SS	4350001655	4350001655	6	
	300	Flat Washer, M8, Regular 304SS	4340005085	4340005085	1	A, B, C, D,
						E, F
	302	Split Washer M8, 304SS	4340009005	4340009005	6	
	-304	Nut Spacer	61152	61152	6	
	305	Hex Nut, M8, 304SS	4350000045	4350000045	4	
	419*	O-Ring, Viton, 2-117	4080068075	4080068075	4	A, C, D, E, F
	419*	O-Ring, PTFE, TEFLEX 2-117	40348	40348	2	B
	420*	Seat, PVDF	2240173078	2240173078	2	A, B, F
	420*	Slurry Seal Ring, 316SS	60819	60819	2	C
	420	Seat, 5/8" Ball 316SS	240173016	240173016	2	E
	420	Seat, 5/8" Ball CA20	60855	60855	2	D
	422	Ball, 14MM 316SS	60709	60709	2	C
	422*	Ball, 5/8 Ceramic	4070015171	4070015171	2	A, B, F
	422	Ball, 5/8 CA20	4070014173	4070014173	2	D

- Items not shown.

* Items included as part of item number 425.

5.6 PARTS LIST FOR D7 AND D8 PLASTIC LIQUID END PVC-NPT/TUBING, PVDF-NPT, POLYMER-NPT, SLURRY-NPT, & H_2SO_4-NPT.

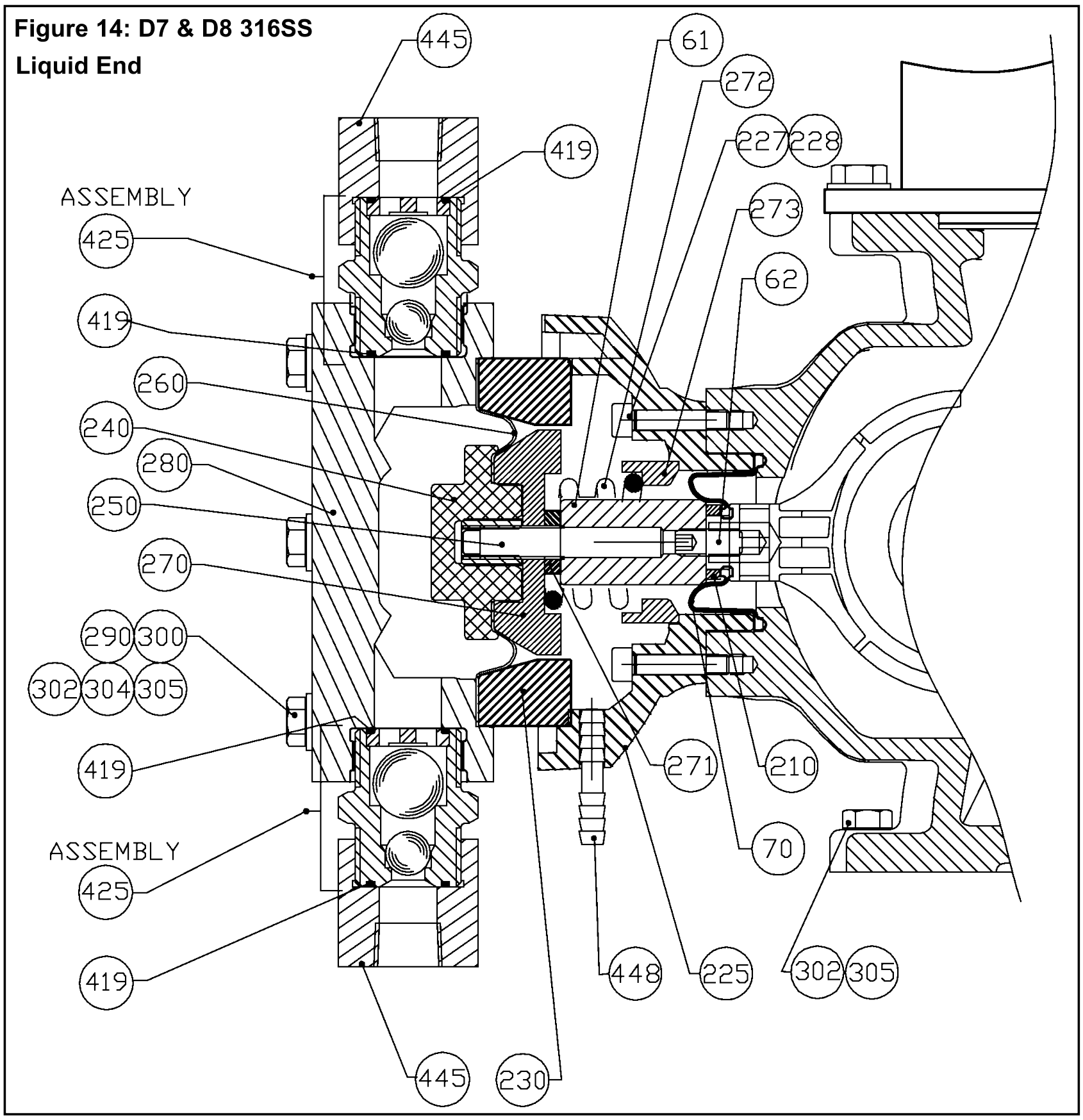
Model:	Reference Code:	Model:	Reference Code:
D7/D8_ _ 8P _ _ _ _	A (PVC NPT)	D7/D8_ _ NP _ _ _ _	D (H_2SO_4 NPT)
D7/D8_ _ 2P _ _ _ _	B (PVDF NPT)	D7/D8_ _ PP _ _ _ _	E (POLYMER NPT)
D7/D8_ _ LP _ _ _ _	C (SLURRY NPT)	D7/D8_ _ 8T _ _ _ _	F (PVC TUBE)
D7/D8_ _ NP _ _ _ _	D (H_2SO_4 NPT)		

FIG. NO.	ITEM NO.	DESCRIPTION	D7 PART NO.	D8 PART NO.	QTY. PUMP	REF. CODE
13	422	Ball, 5/8 316SS	4070014172	4070014172	2	E
	423	Spring, Hastelloy, (Discharge Only)	800123026	800123026	1	E
	423	Kit - Ball, Seat & O-Rings, PVC, Includes items 419, 420, and 422	3050879500	3050879500	2	A
	423	Kit - Ball, Seat & O-Rings, Includes items 419, 420, and 422	3050879700	3050879700	2	B
	423	Kit-Ball, Body, & Dowel Pin, Includes Items 422, 424, & 426	61238	61238	2	C
	424*	Cartridge Body, PVDF	60024	60024	2	A, B, D, E, F
	424	Slurry Valve Body	030156071	030156071	1	E
	424	Ball Guide, PVC, Spring Loaded	60818	60818	2	C
	425	Check Valve Assembly, PVC, Includes Items 423 and 424	3050870007	3050870007	2	A
	425	Check Valve Assembly, PVDFIncludes Items 423 and 424	3050870008	3050870008	2	B
	425	Check Valve Assembly, Slurry, Includes Items 419, 420, & 423	60827	60827	2	C
	-	Dowel Pin, 3/16 X 1.5, 416SS	60820	60820	2	C
	426	Poppet, PVDF	440090078	440090078	1	E
	435	Union Nut, 1/2" PVC	4320236038	4320236038	2	
	445	Union End, 1/2" NPT PVC	60117	60117	2	A, C, D, E, F
	445	Union End, 1/2" NPT PVDF	60119	60119	2	B
	-	Elbow 1" MPT X 1" BARB PVDF		61395	2	F
	-	Elbow 1/2" MPT X 1/2" BARB PVDF	61396		2	F
	448	Blow-Off Nozzle	470096073N	470096073N	1	
	-	Liquid End Kit, PVCNPT/TUBE	RPM 135	RPM 105	1	A, F
		Liquid End Kit, PVDF NPT	RPM 136	RPM 106	1	B
	-	Liquid End Kit, Slurry NPT	RPM 215		1	C
	-	Liquid End Kit, Polymer NPT	RPM 211	RPM 210	1	E
	-	Liquid End Kit, H_2SO_4 NPT	RPM 175	RPM 183		D
	-					

- Items not shown.

* Items included as part of item number 425.

Figure 14: D7 & D8 316SS
Liquid End



5.7 PARTS LIST FOR SD7 AND SD8 316SS-NPT LIQUID END

Model: SD6 _ _ 7P or SD8 _ _ 7P

FIG. NO.	ITEM NO.	DESCRIPTION	SD7 PART NO.	SD8 PART NO.	QTY. PUMP	REF. CODE
14	61	Adapter	61155	61155	1	
	62	Socket Head Set Screw, M8 X 20	4350016075N	4350016075N	1	
	70	Oil Seal Bellows	60048	60048	1	
	210	PTFE Seal Ring	61154	61154	1	
	225	Spacer	61156	61156	1	
	227	Socket Head Set Screw, M6 X 16, 304SS	4350003375N	4350003375N	2	
	228	Socket Head Set Screw, M6 X 30, 304SS	4350047395N	4350047395N	2	
	230	Support Ring	61066	61066	1	
	240	Diaphragm Cap - 316SS	60631	60631	1	
	250	Socket Set Screw, Dog PT M10 X 45	4350071284	4350071284	1	
	260	Diaphragm	60618	60624	1	
	270	Support Nut	61065	61146	1	
	271	Hex Nut, M10 Thin, 316SS	61068	61068	1	
	272	Spring	70081	70081	1	
	273	Spring Cup	61153	61153	1	
	280	Head, 316SS	210760016	210760016	1	
	290	Hex Head Screw, M8 X 110mm, LG 304SS	4350001655	4350001655	6	
	300	Flat Washer, M8, Regular 304SS	4340005085	4340005085	6	
	302	Split Washer M8, 304SS	4340009005	4340009005	6	
	304	Nut Spacer	61152	61152	6	
	305	Hex Nut, M8, 304SS	4350000045	4350000045	6	
	419	O-Ring, Viton	4080068075	4080068075	4	
	425	Check Valve Assembly	3050876602	3050876602	2	
	445	Coupling, 1/2” NPT	60135	60135	2	
	448	Blow-Off Nozzle	470096073N	470096073N	1	
	-	RPM Kit, 316SS	RPM137	RPM107	1	

- Items not shown.