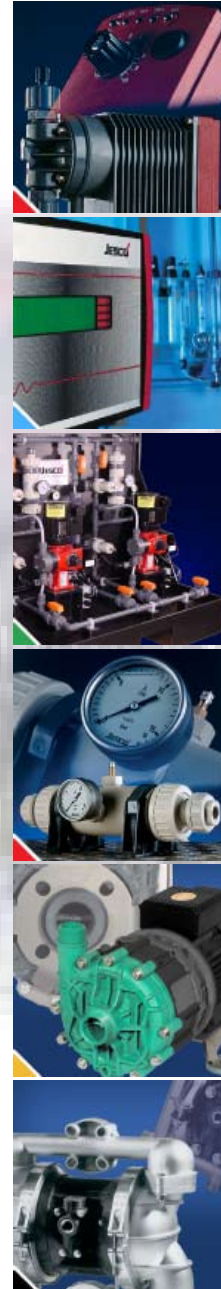


A measured step forward™

1730 Series

Parts List



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Code Number Configuration - Model 1730

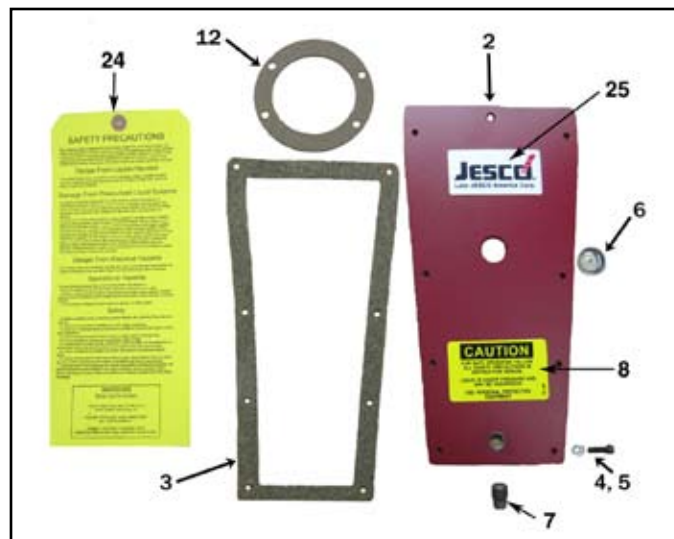
173	—	—	—	—	—	—	—	—
Prod- uct Code	Number of Heads	Plunger Diameter	Head/Check Material	Capacity Adjustment	Speed (SPM)	Seal Mate- rial	Connec- tion Type	Options
	1. Simplex 2. Duplex N. Non- standard	1. 1/2" 2. 1" 6. 1-1/2" 4. 2"	0. Ductile Iron/ 316SS 1. Steel 2. 316SS/ 316SS 3. Alloy 20/ Alloy 20 4. Ductile Iron/Alloy 20 5. Steel/Alloy 20 6. 316SS/ Tung. Carb. 8. Polypro/ PVC N. Non- standard	2. AEI 5. API 9. Manual 3. AEI w/ switches# 4. AEI# 6. MEP w/ switches# 7. MAP# 8. APD# 9. AEI with Explosion- proof Housing	0. 30 2. 44 3. 58 4. 88 5. 96* 6. 116 7. 144* 8. 192 9. 175	1. Hypalon 2. Viton 4. Nitrile* N. Non- standard	1. 1 Hp 2. 1-1/2 Hp 6. 1/3 Hp 7. 1/2 Hp 9. 3/4 hp N. Non- standard	1. Single Ball Check Valves 2. Double- Ball Check Valves 3. Single Popper Checks 4. Double Poppet Checks 5. Hydrau- lic Level Detector 6. Kaydol Fluid B. Internal Back Pres- sure Valve G. Spray Guard S. Slurry

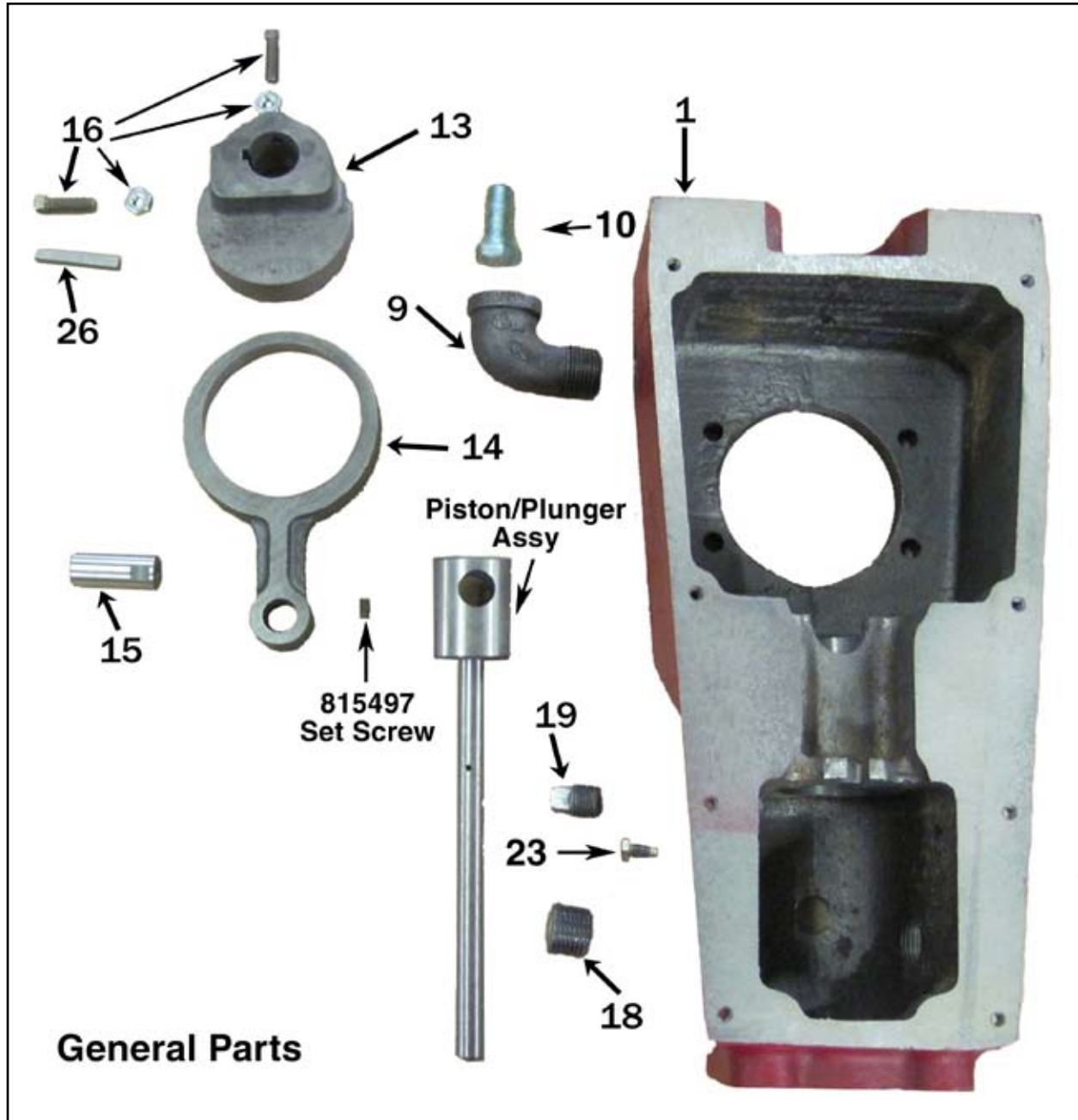
No longer available: #'s 3,4 & 8 replaced by #2;
2" Plunger diameters are supplied standard with single ball checks.
2" Plunger Polypro standard single ball CVs.
* No longer available.

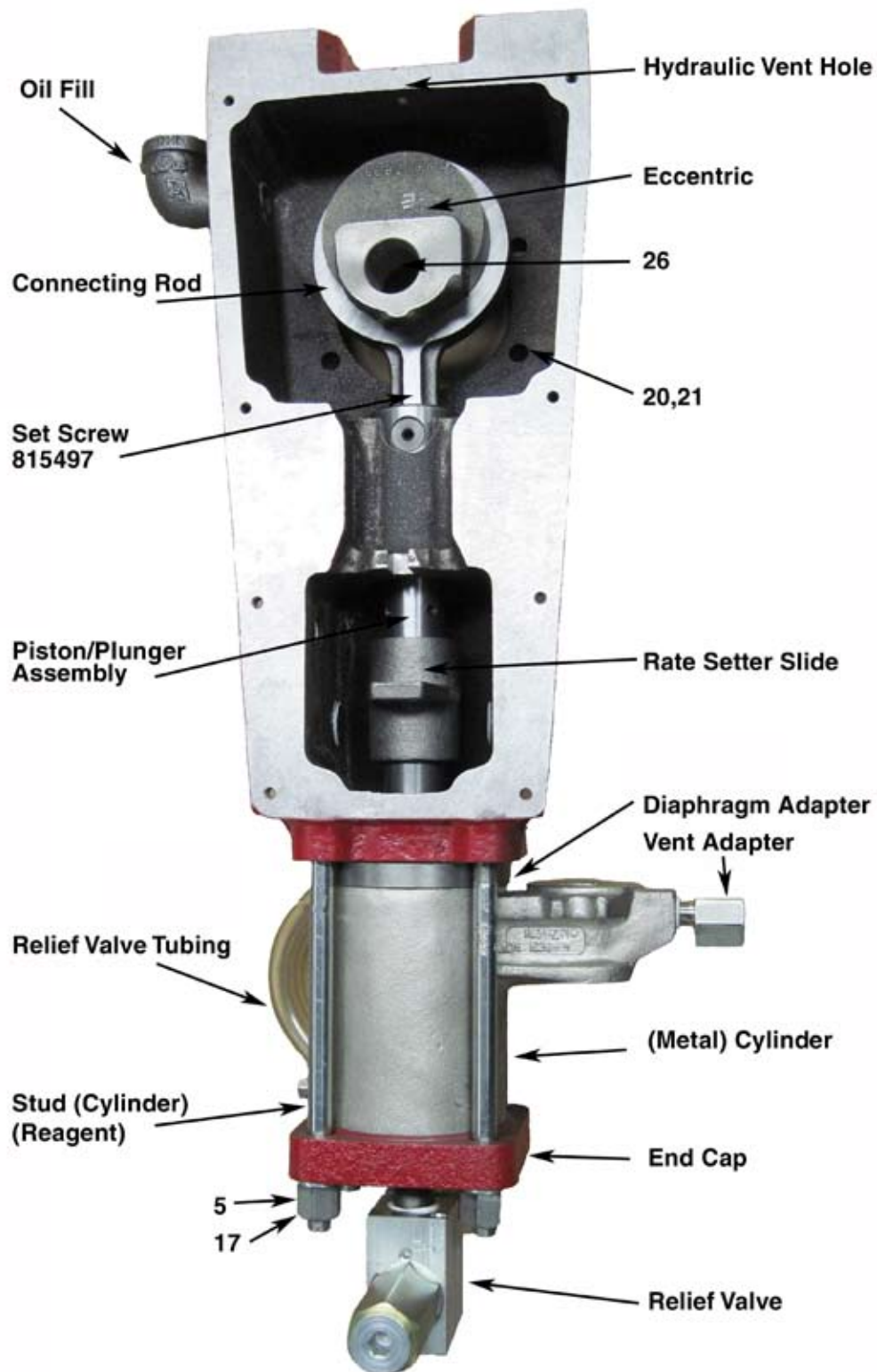
General Parts

Item	Description	Part No.	1730 Model Size			
			1/2"	1"	1-1/2"	2"
1	Housing	815052	1	1	1	-
		816821-08	-	-	-	1
2	Cover	213616	1	1	1	1
3	Cover Gasket*	213618	1	1	1	1
4	Screw	4170053031	8	8	8	8
5	Lockwasher	4170036321	8	8	8	8
6	Oil Level Window	213610	1	1	1	1
7	Drain Plug	4161210002	1	1	1	1
8	Caution Label	DL148	1	1	1	1
9	Oil Fill Elbow	4161208004	1	1	1	1
10	Plug (drawn in)	182109-4	1	1	1	1
11	Lockwasher	4170036025	4	4	4	4
12	Reducer Gasket	234692	1	1	1	1
13	Eccentric	812839-10	1	1	1	1
14	Connecting Rod	812840	1	1	1	1
15	Wrist Pin	812583-2	1	1	1	1
16	1/4-20 Sq.H.d. Set Screw	4170056028	2	2	2	2
17	Stud Nut	813132	4	4	4	4
18	1/2" Hex Soc. Pipe Plug	200719-4	2	2	2	-
19	3/4" Hex Soc. Pipe Plug-2"	200719-2	-	-	-	2
20	Housing Mounting Screw	261357	4	4	4	4
21	Lockwasher	4170036023	4	4	4	4
22	Hydraulic Oil* (not shown)	813582	1	1	1	2
23	Plug-Hex 3/8 NPR*	4161210002	2	2	2	2
24	Tag - instructions	260019	1	1	1	1
25	Label	260364-1	1	1	1	1
26	Key - 3/16" Square	170469-48	1	1	1	1

* Recommended Spare Part







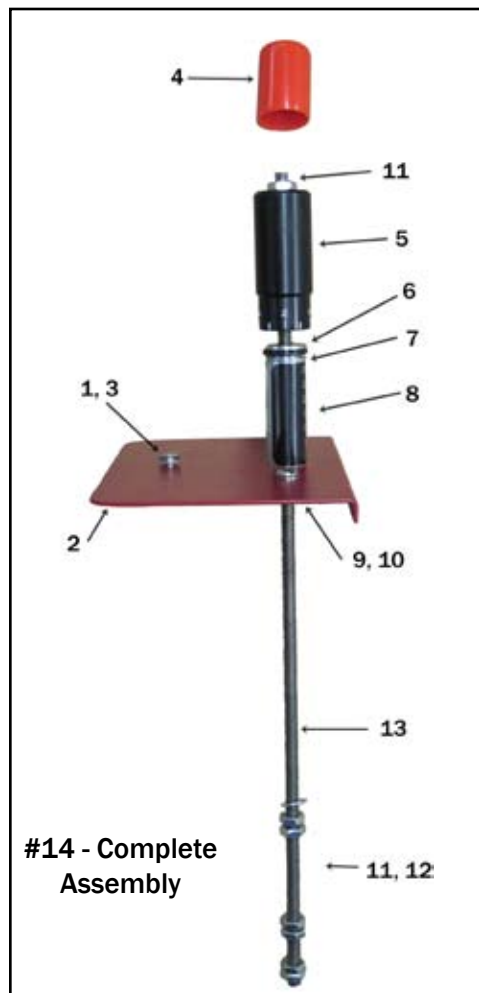
1" Plunger Hydraulic Assembly

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Manual Stroke Length Assembly

Item	Description	Part No.	1730 Model Size - All Sizes
1	#10 Lockwasher	4170036321	3
2	Cover Plate	213620	1
3	10/32 x 3/8" Pan Head Screw	4170063718	3
4	Cap	815523	1
5	Thimble	813406	1
6	O-Ring*	4170568113	1
7	Indicator Post	812592-2	1
8	Scale	813825	1
9	1/2" Lockwasher	4170036324	1
10	1/2" - 20 Jam Nut	4170022565	1
11	1/4" - 20 Jam Nut	4170022044	7
12	Washer	4170037055	1
13	Stroke Adjusting Rod	813408	1
14	Assy - Complete	813412	1

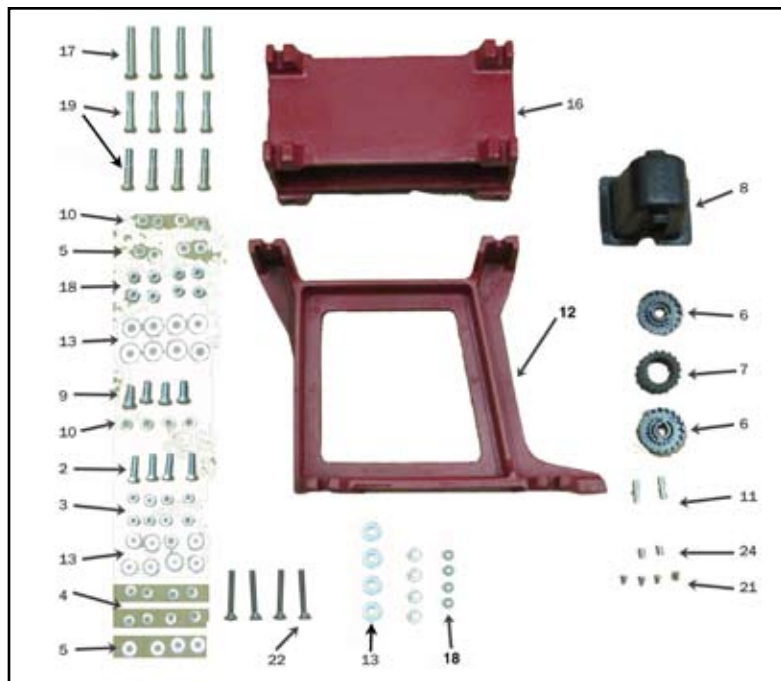
* Recommended Spare Parts



Foot Mount for Motor and Speed Reducer Assembly

Item	Description	Part No.	1/2 - 1-1/2"		2"
			Flat	Foot	Foot
			813460-14	813460-20	219239
1	Base (56C frame)*	815040	1	1	1
2	5/16" 18 x 1" Hex Screws (motor)	4170052126	4	4	4
3	5/16"-18 Hex Nut (motor)	4170022026	8	8	8
4	5/16" Plain Washer (motor)	4170037056	8	12	8
5	5/16" Lockwasher (motor)	4170036024	8	8	8
6	Coupling 5/8"	212390-6	2	2	2
7	Insert	200573-2	1	1	1
8	Coupling Guard	813982	1	1	1
9	3/8"-16/1" Hex Screw	4170052139	4	4	4
10	3/8" Lockwasher	4170036025	8	8	8
11	Key 3/16" x 1-3/4"	182117-7	2	2	2
12	Floorstand	216026	–	–	1
13	3/8" Washer	4170037057	4	4	12
14	3/8" Washer	4170037157	4	4	4
15	3/8"-16 Hex Full Nut	4170022027	4	4	8
16	Riser	219238	–	–	1
17	Hex HD Cap SCR 3/8-24 x 3	816212-26	–	–	4
18	Hex Nut-Full 3/8-24	4170022543	–	–	4
19	Hex NHD Cap SCR 3/8-16 2-1/4	4170052144	4	4	4
21	Slot Self Tap SCR 10-32 x 3/8	4170075718	4	4	4
22	Carriage Bolt	4170011043	4	4	4
24	Groove Pin	4170041053			2

*For 143T base motors use P/N 815040-1

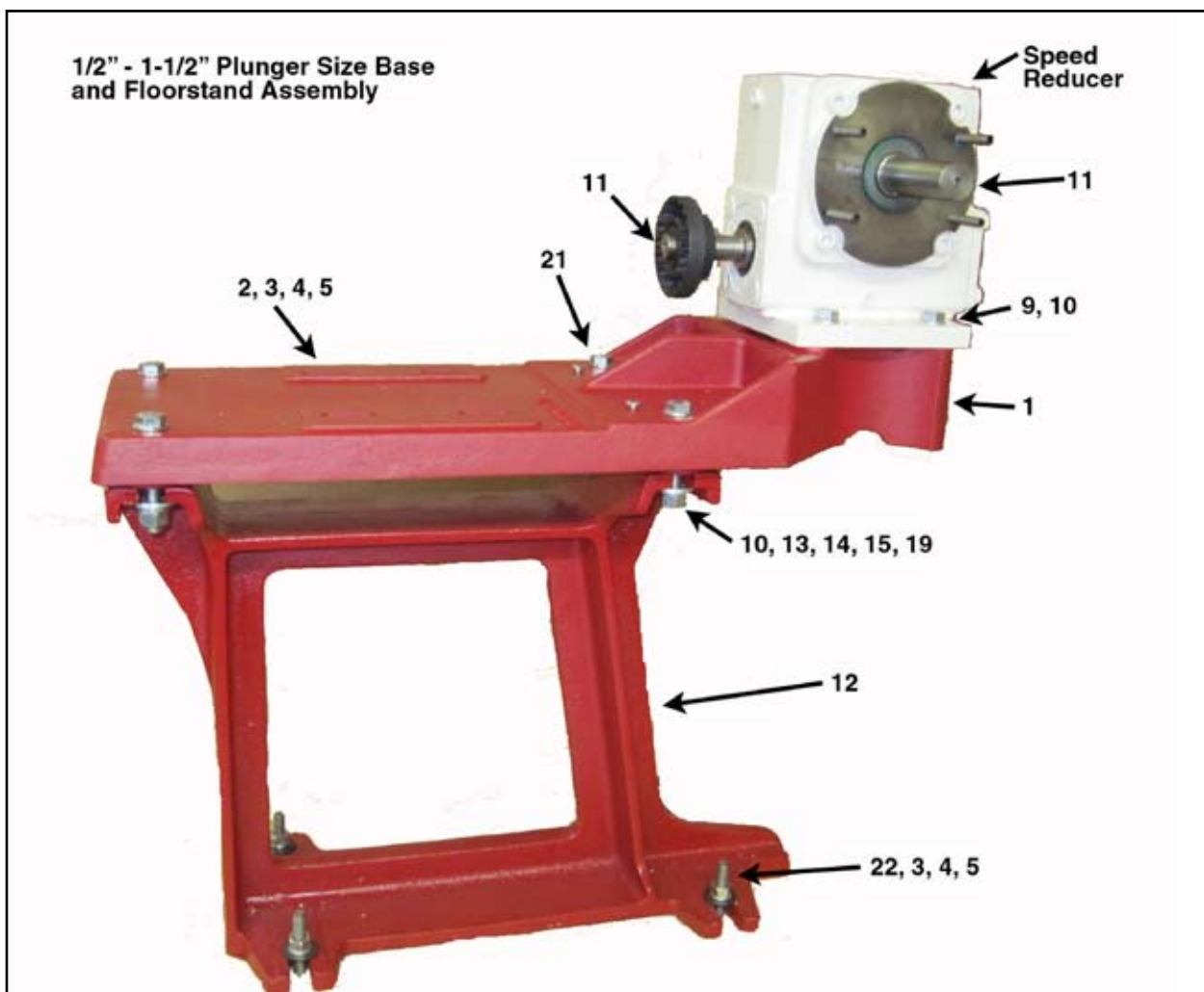


Speed Reducer

Item No.	Speed Reducer - Simplex*								
	SPM (Strokes per Minute)								
	30	44	58	88	96**	116	144**	175	192
816780-58*	1	--	--	--	--	--	--	--	--
816780-39*	--	1	--	--	--	--	--	--	--
816780-30*	--	--	1	--	--	--	--	--	--
816780-20*	--	--	--	1	--	--	--	--	--
816780-18	--	--	--	--	1	--	--	--	--
816780-15*	--	--	--	--	--	1	--	--	--
816780-12	--	--	--	--	--	--	1	--	--
816780-10*	--	--	--	--	--	--	--	1	--
816780-9*	--	--	--	--	--	--	--	--	1

*Add "D" to Part Number for Duplex Pumps

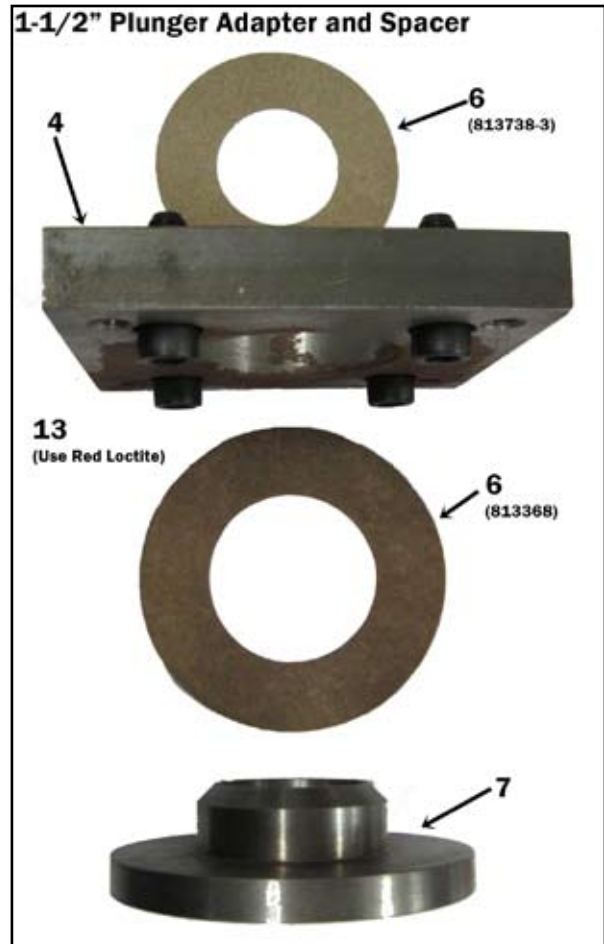
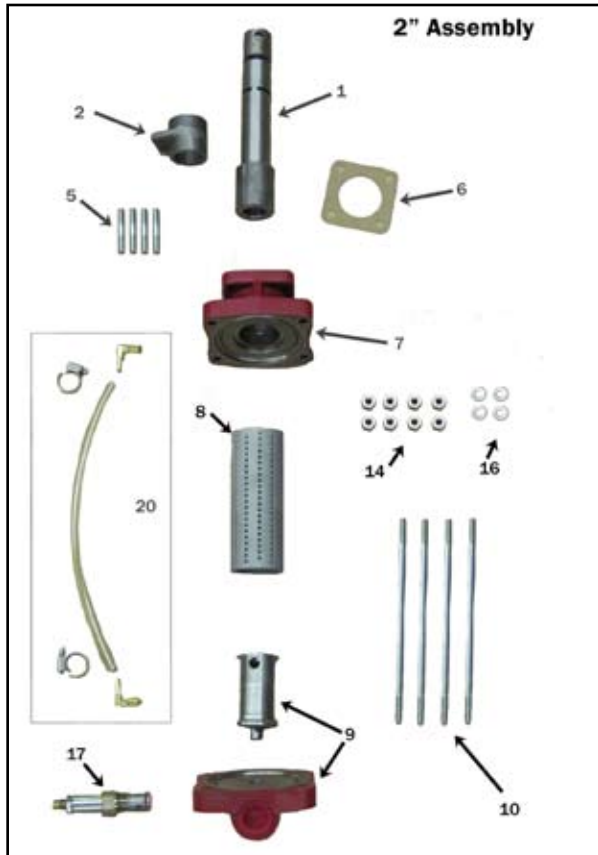
** 96 SPM & 144 SPM no longer Available; Consult Factory



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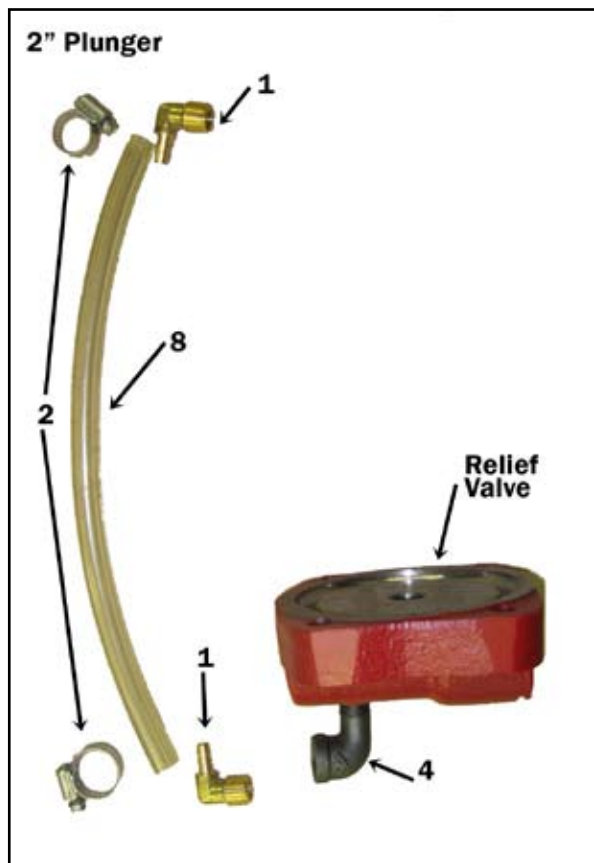
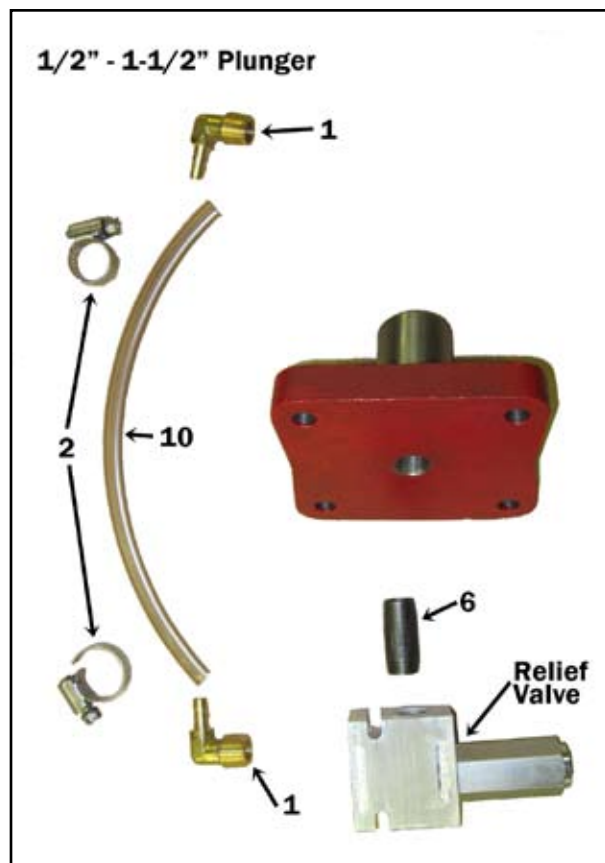
Plunger Assembly - Standard

Item	Description	Part No.	1730 Model Size			
			1/2"	1"	1-1/2"	2"
1	Piston & Plunger	814310	1	--	--	--
		814310-1	--	1	--	--
		814310-8	--	--	1	--
		816816-1	--	--	--	1
2	Slide	812842-1	1	--	--	--
		812842-2	--	1	--	--
		813359-1	--	--	1	--
3	Washer	816175-13	--	--	4	---
4	Spacer	813360	--	--	1	--
5	Stud	813134-10	--	--	---	4
6	Adapter Gasket	813738-2	1	--	--	--
		813738-3	--	1	1	--
		813368	--	--	1	--
		816826	--	--	--	1
7	Adapter - Diaphragm	812843	1	--	--	--
		812844	--	1	--	--
		816940	--	--	1	--
		816814	--	--	--	1
8	Diaphragm Support	813374-1	1	--	--	--
		813374-3	--	1	--	--
		813374-13	--	--	1	--
		813374-7	--	--	--	1
9	End Cap	814055	1	--	--	--
		814056	--	1	--	--
		816941	--	--	1	--
		814119-6	--	--	--	1
10	Stud - Cylinder	813134-1	4	--	--	--
		813134-2	--	4	--	--
		813134-5	--	--	4	--
		813134-7	--	--	--	4
11	Label - Suction Line	DT-145	1	1	1	1
12	Pipe Plug	4171210002	1	1	1	1
13	Socket Head Cap Screw	4170053314	---	---	4	---
14	Nut-Stud Reagent End	813132	4	8	8	8
16	Lock Washer	4170036025	8	8	8	12



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Relief Valve Assembly - Metal Wetted End



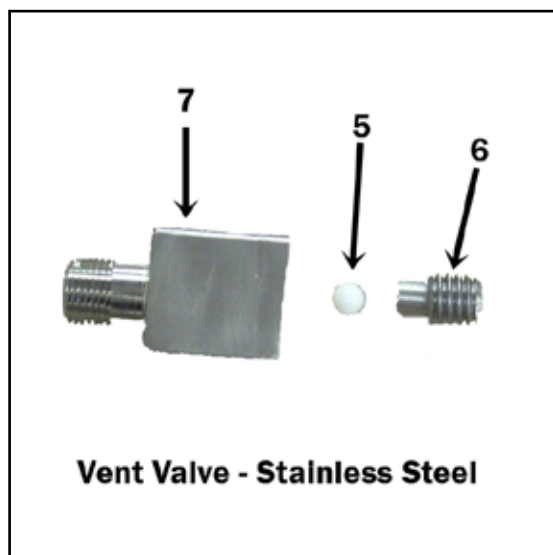
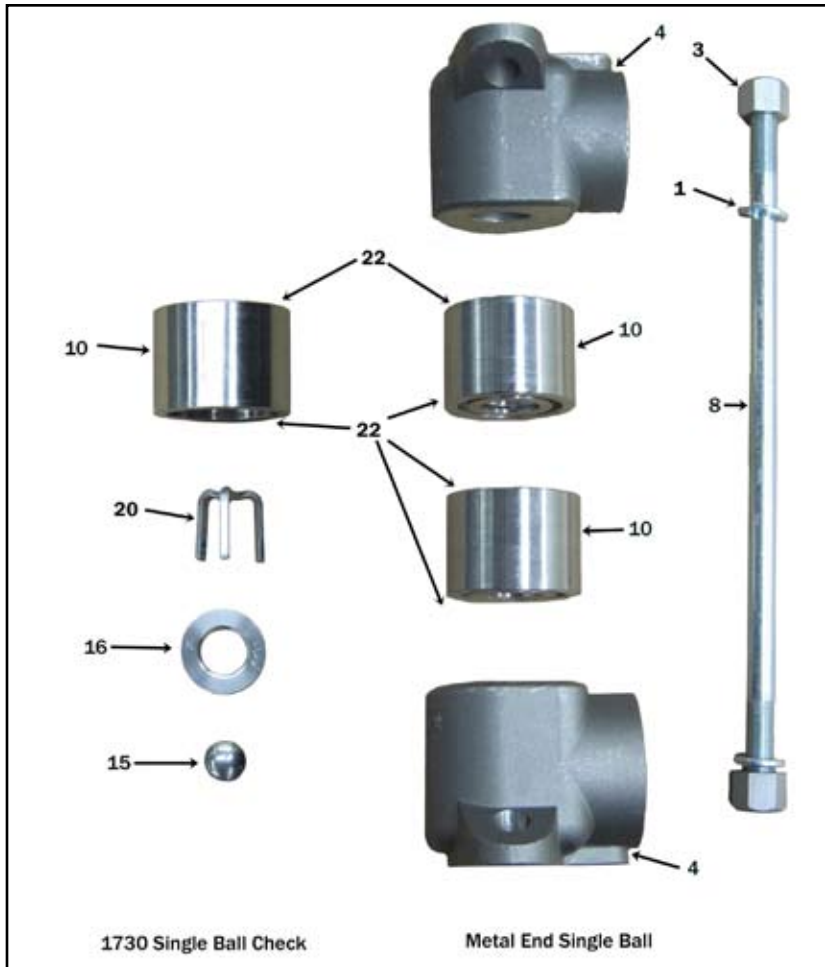
#	Item	Description	Qty
10	460214	Tubing - Relief Valve (10.5" long)	1
1	460215	Fitting Hose	2
2	251293-1	Clamp 7/16"	2

#	Item	Description	Qty
4	4161208003	Elbow 3/8 NPT	1
8	460214-1	Tubing Relief Valve (14.5")	1
1	460215	Fitting Hose	2
2	251293-1	Clamp 7/16"	2

Relief Valves

815457-1	200-1500 psi
815457-2	800-3600 psi
815457-4	200-1500 psi

Metal Wetted End



Wet End 1/2" Plunger

Item	Description	Quantity	1730 Model Size			
			Ductile Iron	316 SS	Alloy	PP
1	Stud Lockwasher	4	4170036024	4170036024	4170036024	–
2	Measuring Cylinder	1	813117-3	813117-3	813117-4	261308
3	Stud Nut	8	4170022026	4170022026	4170022026	4170022090
4	Elbow	2	814829-2	814829-2	814829-3	–
5	Vent Ball	1	804374-C2BX	804374-AB2	804374-AB2	804374-AB2
6	Vent Screw	1	4170057503	4170057503	229419-1	231290
7	Vent Valve	1	248035-1	248035-1	248035-1	261359
8	Stud - Check Clamp	4	813446-2	813446-2	813446-2	815764-1
9	Cylinder Drain Plug	1	814142-2	814142-2	814142-3	4165310-051
10	Check Valve Body	2	239405-1+	239405-1+	239405-3+	–
11	Body Top Half	2		–	–	815360+
12	Body Bottom Half	2		–	–	815361-2+
13	Flange Support Ring	2		–	–	815236-1
14	Flange	2		–	–	815373
15	Check Valve Ball	2	G1012-C2BX+	G1012-K+	G1012-C+	G1013-TFE+
16	Check Valve Seat	2	813425	813425-1+	813425-2+	–
17	Stud-Dual Check	2	813446-1	813446-1+	813446-1+	815764-2+
18	Spacer-Dual Check	2	813584-2+	813584-2+	813584-3+	
19	Wet End Complete Assy.	1		245282-2	245282-3	261365
20	Ball Guide	2	813426	813426	813426-1	–

+Double Check Valve Parts

Elastomer Kits: 1/2" Cylinders

Item	Description	Qty.	Material	Metal Cylinder	Plastic Cylinder
21	Diaphragm	1	Hypalon	812562-6	812562-6
			Viton	812562-16	812562-16
22	Body O-ring	4	Hypalon	814589*	N/A
			Viton	814590*	N/A
23	O-ring - Seat	2	Hypalon	N/A	815762*
			Viton	N/A	815763*
	Kit Part Number		Hypalon	813455-9	261366
			Viton	813455-10	261367

*Double check valve parts

Wet End 1" Plunger

Item	Description	Quantity	1730 Model Size			
			Ductile Iron Pipe*	316 SS*	Alloy 20*	PP+
1	Stud Lockwasher	4	4170036025	4170036025	4170036025	--
2	Measuring Cylinder	1	813651-1	813651-2	813651-3	229413M
3	Stud Nuts	2	813132*	813132	813132	4170022090 (Qty 8)
4	Elbow	2	814102-2	814102-2	814102-3	--
5	Vent Ball	1	804374-C2BX	804374-AB2	804374-AB2	804374-AB2
6	Vent Screw	1	4170057503	4170057503	4170057503	231290
7	Vent Adaptor	1	248035-1	248035-1	248035-2	231288
8	Stud - Check Clamp	2	814575-2	814575-2	814575-2	815764-1 (Qty 4)
9	Cylinder Drain Plug	1	814142-1	814142-2	814142-3	4165310051
10	Check Valve Body	2	813411-4+	813411-4+	813411-5+	--
11	Body Top Half	2	--	--	--	815360+
12	Body Bottom Half	2	--	--	--	815361-2+
13	Flange Support Ring	2	--	--	--	815236-1
14	Flange	2	--	--	--	815373
15	Check Valve Ball	2	G1013-C2BX+	G1013-K+	G1013-C+	G1013-TFE+
16	Check Valve Seat	2		813653-1+	813653-2+	--
17	Double Ball Studs	2	814575-4	813655-2+	814575-4+	815764-2+
18	Double Ball Spacer	2	813584-5+	813584-4+	813584-5+	815912+
	Wet End Complete Assy		813455-4	813455-5	813455-6	815375-17
20	Ball Guide	2	813654+	813654+	813654-1+	--

+Double Check Valve Parts

Elastomer Kits 1"

Item	Description	Qty	Material	Metal Cylinder	Plastic Cylinder
21	Diaphragm	1	Hypalon	812562-8	812562-8
			Viton	812562-18	812562-18
22	Body O-ring	4	Hypalon	814592+	--
			Viton	814591+	--
23	O-ring - Seat	2	Hypalon	--	815762+
			Viton	--	815763+
	Kit Part Number		Hypalon	813455-11	815375-9
			Viton	813455-12	815375-10

+Double Check Valve Parts

Wet End 1-1/2" Plunger

Item	Description	Quantity	1730 Model Size		
			316 SS	Alloy 20	PP
1	Stud Lockwasher	4	4170036025	4170036025	–
2	Measuring Cylinder	1	813361-2	813361-3H	229412P
3	Stud Nut	2	813132	813132	4170022090 (Qty 8)
4	Elbow	2	813847-2	813847-3	–
5	Vent Ball	1	804374-AB2	804374-AB2	804374-AB2
6	Vent Screw	1	4170057503	229419-1	231290
7	Vent Adaptor	1	248035-1	248035-2	231288
8	Stud - Check Clamp	2	814575-5	814575-5	815764-1 (Qty 4)
9	Cylinder Drain Plug	1	814142-2	814142-3	4165310051
10	Check Valve Body	2	813372-1+	813372-2+	–
11	Body Top Half	2	--	--	815360-2+
12	Body Bottom Half	2	--	--	815361+
13	Flange Support Ring	2	--	--	815236-2
14	Flange	2	--	--	815373-1
15	Check Valve Ball	2	G1014-C2BX+	G1014-C+	G1014-TFE+
16	Check Valve Seat	2	813371-2+	813371-3+	–
17	Double Ball Stud	2	814575-6+	814575-6+	815764-2+
18	Double Ball Spacer	2	813584-6+	813584-7+	815912+
20	Ball Guide	2	813892+	813892-1+	–
	Wet End - Complete Assy	1	813455-16	813455-17	815376-17

+Double Check Valve Parts

Elastomer Kits 1-1/2"

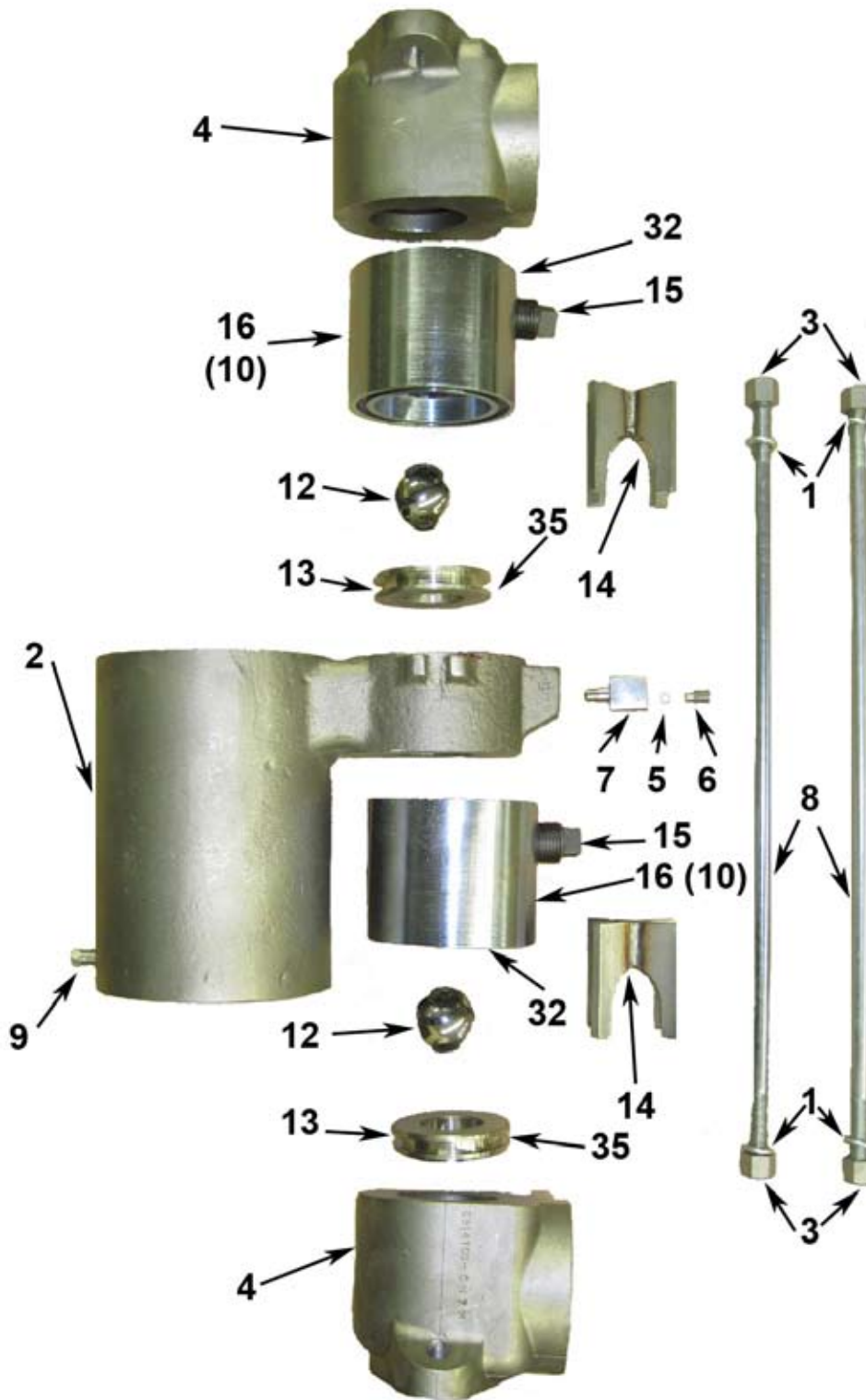
Item	Description	Qty	Material	Metal Cylinder	Plastic Cylinder
21	Diaphragm	1	Hypalon	812562-22	812562-22
			Viton	812562-32	812562-32
22	Body O-ring	4	Hypalon	814593+	N/A
			Viton	814594+	N/A
23	O-ring	2	Hypalon	N/A	815762+
			Viton	N/A	815763+
	Kit Part Number		Hypalon	813455-19	815376-9
			Viton	813455-20	815376-10

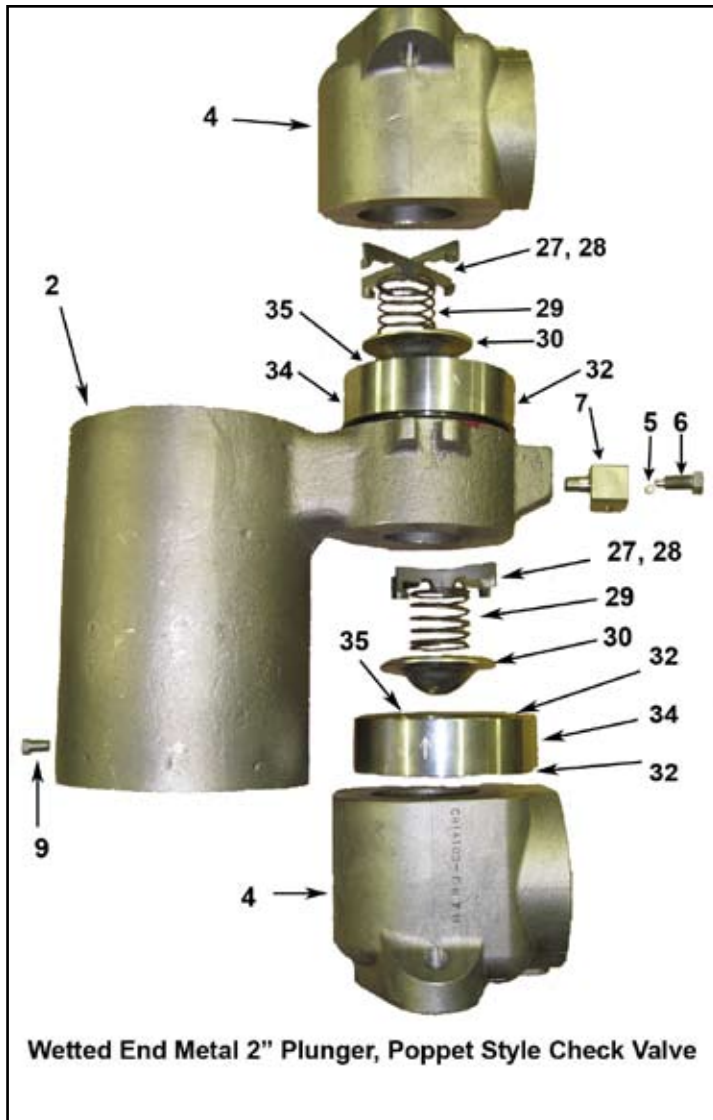
+Double Check Valve Parts

*Recommended Spare Parts

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Wetted End-Metal 2" Plunger Ball Check Valve





Wet End 2" Plunger

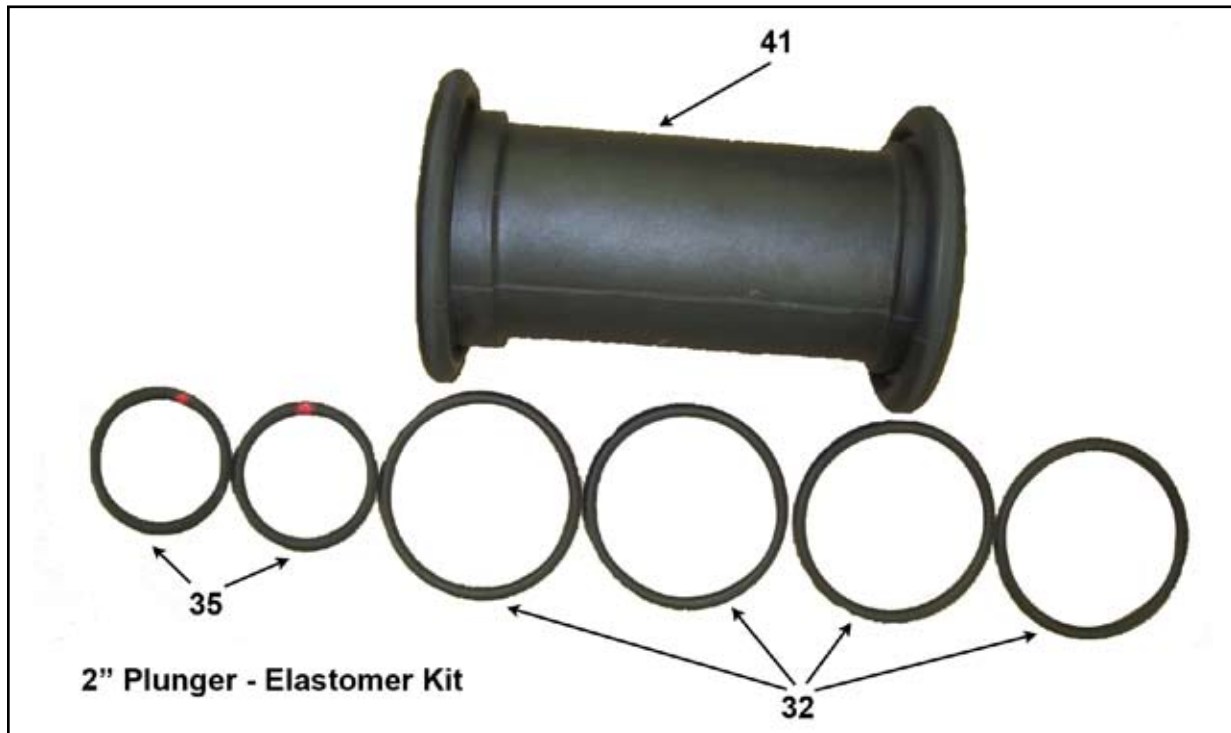
Item	Description	Quantity	1730 Model Size			2" Ball PP
			Ductile Iron/ SS	316 SS	Alloy 20	
					Poppet Only	
1	Lockwasher	4	4170036025	4170036025	4170036025	--
2	Measuring Cylinder	1	813857-1	813857-2	813857-3	229411
3	Stud Nut	8	813132	813132	813132	4170022091 (Qty 8)
4	Elbow	2	814103-1	814103-2	814103-3	--
5	Vent Ball	1	804374-C2BX	804374-AB2	804374-AB2	804374-AB2
6	Vent Screw	1	4170057503	4170057503	229419-1	231290
7	Vent Valve	1	248035-1	248035-1	248035-2	231288
8	Stud - clamping ball check	2	814575-8	814575-8	--	815235-12 (Qty 4)
9	Cylinder Drain Plug	1	814142-1	814142-2	814142-3	4165310051
10	Check Valve Body (Ball)	2	816579	816579	--	236747
12	Check Valve Ball	2	802578-C2BX	802578-K	--	815859-TFE
13	Check Valve Seat	2	801100-C2BX	801100-K	--	816124
14	Ball Guide (Non Flushing)	2	224030	224030	--	--
15	1/2" Pipe Plug (Flushing)	2	4161210020	4161210020	--	--
16	Check Body - Flushing	2	224029-1	224029-1	--	--
17	Stud Cylinder	2	813134-7	813134-7	813134-7	813134-7
18			---	---	---	
19	Flange Support Ring	2	---	---	---	815236-4
20	Flange	2	---	---	---	815312-5
21	Stud Dual Check (with poppet checks)	2	814575-6	814575-6	814575-6	--
22	Stud Dual Check (with ball checks)	2	814575-9	814575-9	814575-6	--
23	Check Valve Spacer (with poppet checks)	2	813584-8	813584-8	813584-9	
24	Check Valve Spacer (with ball checks)	2	816581	816581	--	816134
*26	Stud Clamping Poppet	2	814575-4	814575-4	814575-4	--
*27	Poppet Guide "A"	2	814075-10	814075-10	814075-10	--
*28	Poppet Guide "B"	2	814075-11	814075-11	814075-11	--
*29	Spring	2	814074-5	814074-5	814074-5	--
*30	Poppet	2	813858-5	813858-5	813858-5	--
*31	Dual Stud (Poppet Checks)	2	814575-6	814575-6	814575-6	--
32	O-Rings	See Elastomer Kit				
*34	Check Body - Poppet	2	--	814076-9	814076-10	--

*only for poppet checks necessary

Elastomer Kits 2"

Item	Description	Qty	Material	Diaphragm and Seals 2" Plunger		
				Ductile Iron, 316 SS, Alloy 20		PP
				Poppet Type Valve	Ball Type Valve	
32	Body O-ring	4	Hypalon	814602	814602	814602
			Viton	814601	814601	814601
41	Diaphragm	1	Hypalon	814083-1	814083-1	814083-1
			Viton	814083-2	814083-2	814083-2
35	O-ring Seat	2	Hypalon	814603	816654+	
			Viton	814604	816655+	
	Kit Part Number		Hypalon	814079-11	816580-6	816120-6
			Viton	814079-12	816580-7	816120-7

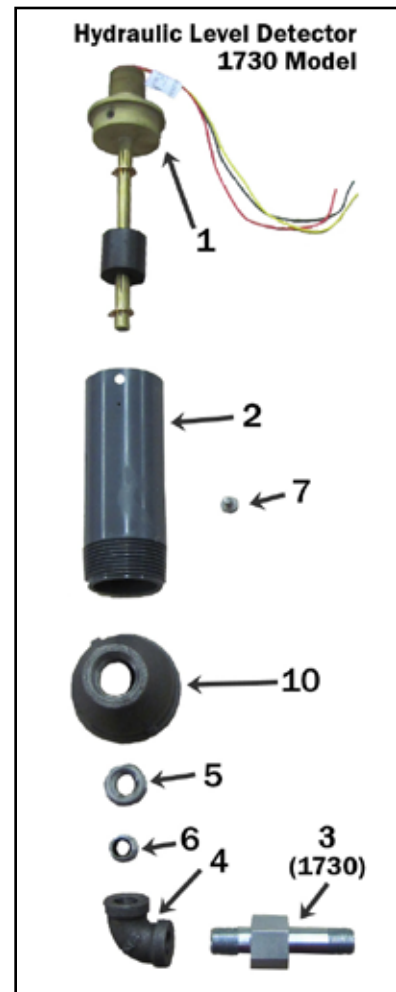
+ = Double check valve parts



Additional Options

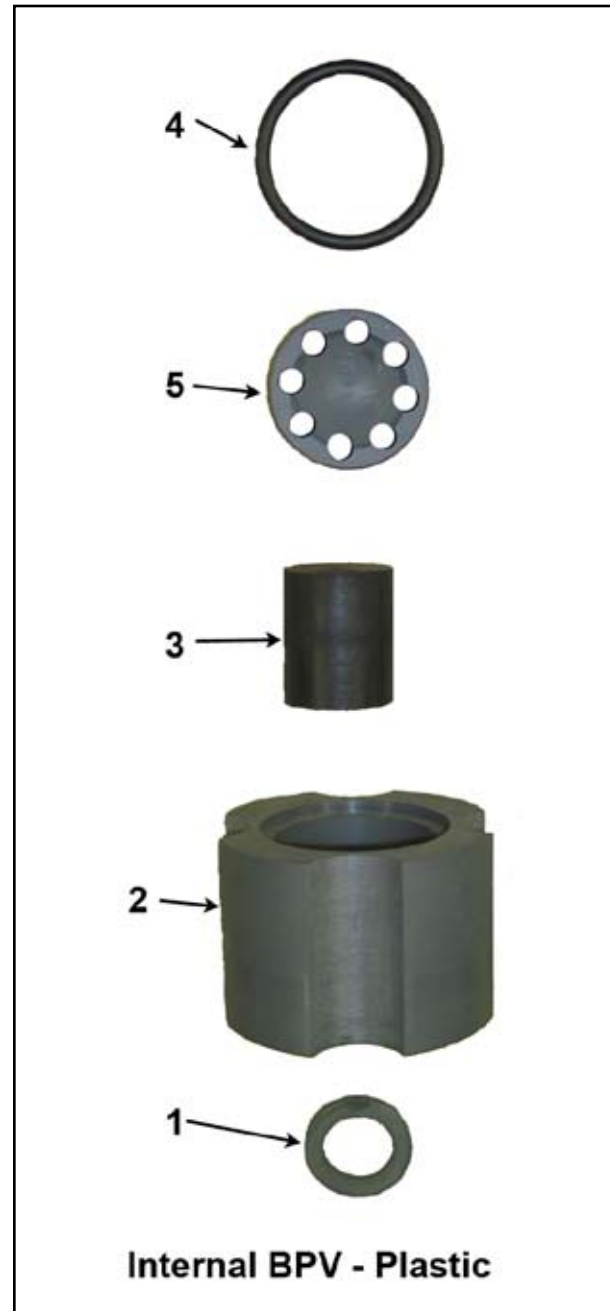
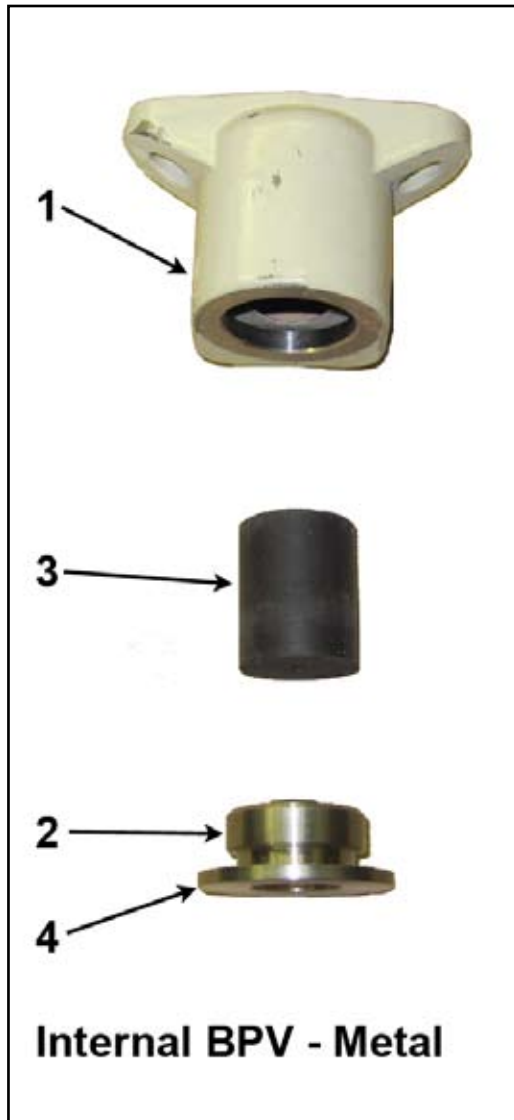
Hydraulic Level Detector

	Description	Pump Type	
		1720/1730	1740
		Part No.	
	Hydraulic Level Detector	815705	815705-1
1	Switch-Level - 1730/40 Leak Det.	815706	
2	Oil Level Chamber 1-1/4 PVC 80	815701	
3	Nipple-Adapting	815702	816348
4	Elbow 1/4"NPT 90 Deg.	4161207002	
5	Bushing Face 1/4 X 1/2	4161201205	
6	Nipple 1/4 X 7/8 Scheed 40	4161209012	-
	Nipple 1/4 X 4 Scheed 40	-	4161209018
7	Slotted Mach SCR 10-32 x 1/4	4170063716	
8	Plug-Dispersion (not shown)	-	816349
9	Switch, Load-Pac	2805	
10	Coupling - Reducing	4161204016	
11	Control Relay	261440 (not shown)	



Back Pressure Valves - Metal

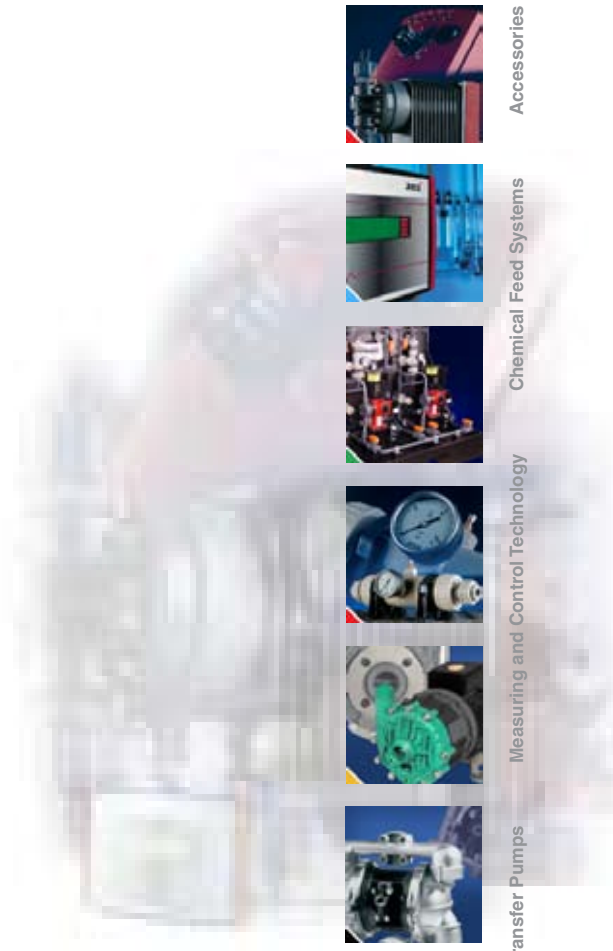
Item	Description	Part No.	Back Pressure Valves - Metal									
			Ductile Iron		316 SS		Alloy 20		Iron/Alloy 20		Steel/Alloy 20	
			Hypalon	Viton	Hypalon	Viton	Hypalon	Viton	Hypalon	Viton	Hypalon	Viton
1	Elbow 1/2" Plunger	814821-2	1		1		-		-		1	
		814821-3	-		-		1		-		-	
2	Seat 1/2" Plunger	814822-2	1		1		-		-		-	
		814822-3	-		-		1		-		1	
3	Elastomer Spring 1/2"	814512-1	1	-	1	-	1	-	1	-	1	-
		814512-2	-	1	-	1	-	1	-	1	-	1
4	O-Ring 1/2"	814827	1	-	1	-	1	-	1	-	1	-
		814828	-	1	-	1	-	1	-	1	-	1
1	Elbow 1" Plunger	814110-2	1		1		-		-		1	
		814110-3	-		-		1		-		-	
2	Seat 1" Plunger	814105-2	1		1		-		-		-	
		814105-3	-		-		1		1		-	
3	Elastomer Spring 1"	814509-3	1	-	1	-	1	-	1	-	1	-
		814509-4	-	1	-	1	-	1	-	1	-	1
4	O-Ring 1"	814595	1	-	1	-	1	-	1	-	1	-
		814596	-	1	-	1	-	1	-	1	-	1
1	Elbow 1-1/2" Plunger	814111-1	1		-		-		1		-	
		814111-2	-		1		-		-		1	
		814111-3	-		-		1		1		-	
2	Seat 1-1/2" Plunger	814106-2	1		1		-		-		-	
		814106-3	-		-		1		1		1	
3	Elastomer Spring 1-1/2"	814510-3	1	-	1	-	1	-	1	-	1	-
		814510-4	-	1	-	1	-	1	-	1	-	1
4	O-Ring 1-1/2"	814598	1	-	1	-	1	-	1	-	1	-
		814597	-	1	-	1	-	1	-	1	-	1
1	Elbow 2" Plunger	814112-1	1		-		-		1		-	
		814112-2	-		1		-		-		1	
		814112-3	-		-		1		1		-	
2	Seat 2" Plunger	814107-2	1		1		-		-		-	
		814107-3	-		-		1		1		1	
3	Elastomer Spring 2"	814511-3	1	-	1	-	1	-	1	-	1	-
		814511-4	-	1	-	1	-	1	-	1	-	1
4	O-Ring 2"	814599	1	-	1	-	1	-	1	-	1	-
		814600	-	1	-	1	-	1	-	1	-	1



Back Pressure Valves - PP

Item	Description	Back Pressure Valves - PP						
		Part No.	1"		1-1/2"		2"	
			Hypalon	Viton	Hypalon	Viton	Hypalon	Viton
1	Seat	815803-2	1		-		-	
		815803-1	-		1		-	
		815009-3	-		-		1	
2	Body	815804	1		-		-	
		815806	-		1		-	
		234694	-		-		1	
5	Cap - B.P.V.	815805			1		-	
		816123-3	-		-		1	
	Stud (not shown)	815764-2	4				-	
		815235-19	-		-		4	
		815764-4	-		4		-	
3	Elastomer Spring	814509-3	1	-	-	-	-	-
		814509-4	-	1	-	-	-	-
		814510-5	-	-	1	-	-	-
		814510-6	-	-	-	1	-	-
		814511-5	-	-	-	-	1	-
		814511-6	-	-	-	-	-	1
4	O-Ring	815762	1	-	-	-	-	-
		815763	-	1	-	-	-	-
		814599	-	-	1	-	-	-
		814600	-	-	-	1	-	-
		814602	-	-	-	-	1	-
		814601	-	-	-	-	-	1
	Kit		815375-30	815375-31	815376-30	815376-31	816120-23	816120-24

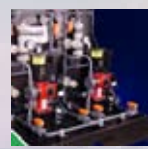
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Accessories



Chemical Feed Systems



Measuring and Control Technology



Transfer Pumps



Metering Pumps

