

Roughneck and Service Master Valves, Seats, and Springs

	Size			RN Valve	RN Insert	SM Valve	SM Insert	SM Bonded	Seat	Spring	SS Spring	HS Spring
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Bethlehem [Return to: Table of Contents](#)

U-510	5-1/2x10	P-4		9700110	9705058	070113329	072442031		80129109	055412068	
U-46											
UA-46 SN 301 & UP											

BJ Hughes [Return to: Table of Contents](#)

Pacemaker 300, 375	3-5x4	P-4	(S)	9700315	9705040	070210109	072442023		080130156	055402937	8201730	
		P-4	(D)	9700080	9705040	070113303	072442023		080130156	055402937	8201730	
Pacemaker 200 (Horizontal suction)	2-3x4	P-2	(D)	9700013	9705015	070210117	072443104	070210117BD	080100803	055403158		
		P-1A	(S)	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
1800	4-1/2	P-5		9700129	9705066	070113352	072442155		080120504	8201455		
BJ-8 Wheatley C.P.	4-1/2x8	P-4		9700080	9705040	070113303	072442023		080129703	055402937	8201730	
Pacemaker (Old Design) Plunger	5-1/2-6	P-6	(S)	9700170	9705074	070114302	072442254		080121007	055402937	8201730	
		P-5	(D)	9700129	9705066	070113352	072442155		080120207	055402937	8201730	
Pacemaker (New Design) Plunger	5-1/2-6	P-5		9700129	9705066	070113352	072442155	070113352BD	080120207	055402937	8201730	
Pacemaker 350 CSS Horizontal	3-5x4	P-5	(S)	9700153	9705066	070210612	072442155		080196272	055403646		
		P-4	(D)	9700080	9705040	070113303	072442023		080130156	055402937	8201730	

MD-1000 M	3"	P-4	(S) (D)					070113330BD	XM-295	XM-354S XM-354D		
MD-1000 F	3-3/4	P-5	(S)	9700129	9705066	070113352	072442155	070113352BD	XM-245	055413597		
MD-1000 E	4-1/2		(D)							055403691		
MD-1000 D	5"											

	Size			RN Valve	RN Insert	SM Valve	SM Insert	SM Bonded	Seat	Spring	SS Spring	HS Spring
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Ellis Williams

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W-440-LP, W-446, WH-440		P-4		9700099	9705058	070113329	072442031		080130248	055213417		
W-440-HP		P-2	(S)	9700013	9705015	070210117	072443104	070210117BD	9702040*	H-5710-017		
*Use cage HF2C02		P-4	(D)	9700099	9705058	070113329	072442031		080130248	055213417		

Emsco

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F-350-P	4-1/2x7	P-4		9700080	9705040	070113303	072442023		080130248	055413009	055403067	
F-350-HP	4x7	P-2		9700013	9705015	070210117	072443104	070210117BD	080100902*	055403406	055400659	
*Cage 071211304												

Failing

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FM-45	5x6-1/2	P-3		9700064	9705023				9702130	055412068		
L-100-C	4-1/2x5	P-3		9700072	9705031				080103005	055412084		

Fairbanks-Morse

e

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Fig. 6285	7-1/2x12	P-4		9700102	9705040	070113303	072442023		080129208	055403000		
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Fig. 6185	5x10										
Fig. 6183	5x10										

FMC [Return to: Table of Contents](#)

WT-2400 Triplex	4"											
	4-1/2 - 5	P5		9700129	9705066	070113352	072442155	070113352BD	XM-245			
	5-1/2 - 6	P5		9700129	9705066	070113352	072442155	070113352BD	XM-245			
WQ-2700 Quintaplex	4"											
	4-1/2 - 5	P5		9700129	9705066	070113352	072442155	070113352BD	XM-245			
	5-1/2 - 6	P5		9700129	9705066	070113352	072442155	070113352BD	XM-245			

GAPCO
(AMERMAN) [Return to: Table of Contents](#)

AT-550-H		P-2	(S)	9700013	9705015	070210117	072443104	070210117BD	080100787*	055403406		
*Cage 071211304		P-4	(D)	9700080	9705040	070113303	072442023		080130248	055409809		

	Size			RN Valve	RN Insert	SM Valve	SM Insert	SM Bonded	Seat	Spring	SS Spring	HS Spring
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FD-FXD, FD-FS, FD-FJ-A,B, FD-FXD		P-4		9700102	9705040	070113303	072442023		080129208	055403406	055401806	
FC-FS, EF-FS, EF-2000, EF-FXD-B, EF-PXD, FC-FXD-A,	10x5x10 5x10 5x10	P-4		9700110	9705058	070113329	072442031		080129901	055403406		

FC-PXD, FC-FXO,EW, EW-1000, FJ-FS, EW-FJ, FJ-FJ,FC-FC EW-PXD, EF, ET, ET-PXD, FA-FXX, FC-FXX-A THRU -M FC-FXX-S, FC-FJ EF-FXX-A THRU -D	4-1/2x10 4-1/2x10 5x8 5x8 5x8											
FC-FXX-Z, -AA to -AH	5x8	P-4		9700110	9705058	070113329	072442031		080130008	055403406		
FD-FXX, FG-FXG-P, -R, -T FG-AGA, FG-AGB FG-AGD, FG-2000 FG-4000, FG-FXG, FG-FXG-A THRU -L FD-FXX-J, -K	5x8 5x6 4-1/2x6 4-1/2x6 5-1/2x8	P-4		9700102	9705040	070113303	072442023		080129208	055412068	055401806	
PAH-BFB & BFC PAH-A,-D,-E,-F,- J,-K TGF, PJ-HB, PJ-8A	5x8	P-4		9700188	9705040				080130248	055413009	8201714	

PA-8-C,-D,-E	4-1/2x8	P-4		9700110	9705058	070113329	072442031		080129901	055405856	055402960	
PAH-AA,-AF	4-1/2x8	P-4		9700110	9705058	070113329	072442031		080130008	055405856	055402960	
PA-8-H,K,L,N,Q, R,S,U,Y												
PE-5F,G,H,K,L,T, V,Y,Z		P-1A		9700005	9705007	070210505	072444540		080100506*	055413223	8201625	
TEE-BCA												
TEE-BGB, PX5-B												
*Cage 9704035												
Req'd												

	Size			RN Valve	RN Insert	SM Valve	SM Insert	SM Bonded	Seat	Spring	SS Spring	HS Spring
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PE-5-J	3x5	P-2		9700013	9705015	070210117	072443104	070210117BD	9702040*	055403406		
PE-5-C,E,U	4x5											
TEE-BAA												
*Cage 9704019												
Req'd												
PE-5 SMC F.E.	3x5	P-1		N/A	N/A	070101506			080100209	8201498	055403364	
TA3-A, TA4-A & E		P-1A	(S)	9700005	9705007	070210505	072444540		080100654*	055413223		
*Cage 071211353		P-2	(D)	9700013	9705015	070210117	072443104	070210117BD	080100985**	055403406		
**Cage 071211304												
TEE-BFB	4x5	P-2		9700013	9705015	070210117	072443104	070210117BD	080100878*	055403406		
TEE-BFC	4x5											
2-3/8" Optional I. D.		P-2A		9700242	9705210				9702490*	055403406		

*Cage 9704019 Req'd												
GD-600 Compact	2.5 - 3	P-2		9700013	9705015	070210117	072443104	070210117BD	080100787	8202117		
	3.5 - 4.5	P-4		9700099	9705058	070113329	072442031		080129901	055413546		
1000 WS - 1300 WS	4 - 5.25	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055413538		
1300 CWS, 1800CWS,	3.5 - 4	P-4		9700080	9705040	070113303	072442023	070113304BD	080130297	055413546		
2000 CWS	4.5 - 5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055413520		
	5.5 - 6	P-6		9700170	9705074	070113402	072442254	070113402BD	080121148	055413512		
	6.5 - 7	P-7		9700234	9705082	070113451	072442353		080123029	055403570		
GD-2000, GD-2250	3.75 - 4	P-4		9700080	9705040	070113303	072442023	070113304BD	080130297	055413546		
	4.5 - 5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055413520		
	5.5 - 6	P-6		9700170	9705074	070113402	072442254	070113402BD	080121148	055413512		
	6.5 - 6.75	P-7		9700234	9705082	070113451	072442353		080123029	055403570		
GD-1250,GWS- 1250,	5 - 5.5	P-5		9700129	9705066	070113352	072442155	070113352BD	XM-245			
HD,C,D-2250 W/ GWS FE												
3.75" FE GWS (FOPI)	3-3/4	P-5	(S) (D)	9700129	9705066	070113352	072442155	070113352BD	XM-245	055413597 055403691		
4-1/2" FE GWS (EOPI)	4-1/2	P-5	(S) (D)	9700129	9705066	070113352	072442155	070113352BD	XM-245	055413597 055403691		

5" FE GWS (HOPI)	5	P-5	(S) (D)	9700129	9705066	070113352	072442155	070113352BD	XM-245	055413597 055403691		
5-1/2" FE GWS (IOPI)	5-1/2	P-5	(S) (D)	9700129	9705066	070113352	072442155	070113352BD	XM-245	055413597 055403691		
6.5" FE GWS (UOPI)	6-1/2		(S)									
			(D)									
6.75" FE GWS (JOPI)	6-3/4		(S)	9700234	9705082	070113451	072442353	070113451BD	080123029			
			(D)									

	Size			RN Valve	RN Insert	SM Valve	SM Insert	SM Bonded	Seat	Spring	SS Spring	HS Spring
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Gardner Denver

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700, 1250 With 5-1/2" Crossbore	4.5 - 5.5	P-6		9700170	9705074	070113402	072442254	070113402BD	XM-264			
700, 1250 With 6" Crossbore	5.5 - 6.5	P-7		9700234	9705082	070113451	072442353	070113451BD	080123003			
HD-2250 (Triplex) W/ GWS F.E.	4-1/2	P-5	(S) (D)	9700129	9705066	070113352	072442155	070113352BD	XM-245	055413597 055403691		
	5 - 5-1/2	P-5		9700129	9705066	070113352	072442155	070113352BD	XM-245			
	6 -6-1/2	P-7		9700234	9705082	070113451	072442353	070113451BD	080123003			
YWS FLUID END	4-1/2 - 5	P-5	(S) (D)			070113353 070113354			080120852 080120851			
	5-1/2 - 6	P-6	(S)			070113403			080121256	055413512		

			(D)			070113404			080121257	055413512		
EWS FLUID END	4-1/2 - 5	P-5	(S)			070113353			080120852			
			(D)			070113354			080120852			
	5-1/2 - 6	P-6	(S)			070113403			080121256			
			(D)			070113404			080121256			
CWS FLUID END	3-3/4 - 4	P-4		9700080	9705040	070113303	072442023	070113304BD	080130297	8202109		
	4-1/2 - 5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055413520		
	5-1/2 - 6	P-6		9700170	9705074	070113402	072442254	070113402BD	080121148	AAB-051162-99 9		
	6.5 - 7.5	P-7		9700234	9705082	070113451	072442353		080123029	AAB-051164-99 9		
GP-2500 (Quinteplex)	4"	P-4		9700080	9705040	070113303	072442023	070113304BD	080130297	055413546		
W/ GWS F.E.	4-1/2 - 5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504			
GD-3000												
High Pressure F.E.	4-1/2 - 5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504			
Medium-High Pres F.E.	5 - 5-1/2	P-6		9700170	9705074	070113402	072442254	070113402BD	XM-265	055413512		
Medium Pressure F.E.	5-1/2 - 6	P-6		9700170	9705074	070113402	072442254	070113402BD	080121148			
High Pressure F.E.	6-1/2 - 7											

	Size			RN Valve	RN Insert	SM Valve	SM Insert	SM Bonded	Seat	Spring	SS Spring	HS Spring
Gaso Pump	Return to: Table of Contents											
Fig. 2651	5-1/2x12	P-6		9700170	9705074	070114302	072442254		9702598	055405401		

Fig. 1753	7-1/2x10											
Fig. 1743	7-1/2x10											
Fig. 1742	5-1/2x10	P-4		9700102	9705040	070113303	072442023		080130107	055412035		
Fig. 1755	5-1/2x10											
Fig. 1654	5x8											
Fig. 1654C	5x8											
Fig. 550	5x10	P-4		9700110	9705058	070113329	072442031		080129109	055411805		
Fig. 1550	5x10											
Fig. 1550C	5x10											
Fig. 1560	5x10											
Fig. 1563	5x10											
Fig. 2050	5x10											
Fig. 1847	4-1/2x6											
Fig. 1860	4-1/2x6											
Fig. 2247	4-1/2x6											
Fig. 1849	4-1/2x6											
Fig. 2249	4-1/4x6											
3968 WS		P-3		9700072	9705031				9702440*	055403802		
3969 WS												
3671 WS												
3673 WS	3-1/2x6											
3675 WS												
3775 WS	3-1/2x5											
5885 WS												
*Cage 9704027 Req'd												

	Size			RN Valve	RN Insert	SM Valve	SM Insert	SM Bonded	Seat	Spring	SS Spring	HS Spring
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Geoquip (See
SPM Also)

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LC350, H-600	3.5-4.5	P-4		9700099	9705058	070113329	072442031		080130172	055413504		
H-880, LC-1200	3.5-4	P-4		9700080	9705040	070113303	072442023	070113304BD	080130297	055413546		
	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055413520		
	5.5-6	P-6		9700170	9705074	070113402	072442254	070113402BD	080121148	055413512		
C-1300	3.75-4	P-4		9700080	9705040	070113303	072442023	070113304BD	080130297	055413546		
C-1600	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055413520		
C-1800	5.5-6	P-6		9700170	9705074	070113402	072442254	070113402BD	080121148	055413512		
J-2000	6.5-6.75	P-7		9700234	9705082	070113451	072442353		080123029	055403570		

Gist (See OPI)

Halliburton [Return to: Table of Contents](#)

T-10		P-4		9700080	9705040	070113303	072442023		080129109	055412902		
AC		P-4		9700110	9705058	070113329	072442031		080129109	055403208		

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TEE & PE5 *Cage 9704019 Req'd		P-2		9700013	9705015	070210117	072443104	070210117BD	HF-2-S08*	055403406		
165 *Cage 071211304	4x5	P-2		9700013	9705015	070210117	072443104	070210117BD	080100902*	055403406		
400	5x6	P-4		9700080	9705040	070113303	072442023		080130248		055402937	

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TI-600	2.5 - 3	P-2		9700013	9705015	070210117	072443104	070210117BD	080100787	8202117		
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	3.5 - 4.5	P-4		9700099	9705058	070113329	072442031		080129901	055413546		
QI 1000	2.5 - 3	P-2		9700013	9705015	070210117	072443104	070210117BD	080100787	8202117		
	3.5 - 4.5	P-4		9700099	9705058	070113329	072442031		080129901	055413546		

	Size			RN Valve	RN Insert	SM Valve	SM Insert	SM Bonded	Seat	Spring	SS Spring	HS Spring
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Myers Aplex

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SC-300 Suction		P-4		9700188	9705040				PF-04-S2*	055409106		
*Cage PF04C2 Req'd												
SC-300 Discharge		P-4		9700188	9705040				PF-04-S1*	055409106		
*Cage PF04C1 Req'd												

National

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JWS-5L, J-150-LC, JWS-165L,JWS-300L,		P-4	(S)	9700099	9705058	070113329	072442031		080137334	055413454		
			(D)	9700099	9705058	070113329	072442031		080137300	055413462		
JWS-185, JWS-340		P-4	(S)	9700099	9705058	070113329	072442031		080137334	G1560697		
			(D)	9700099	9705058	070113329	072442031		080137300	G1560697		
J-100-L		P-1A	(S)	9700005	9705007	070210505	072444540		9702016*	055413223		
*Cage 071211353		P-2	(D)	9700013	9705015	070210117	072443104	070210117BD	080100993**	055403406		
**Cage 071211304												
JWS-165M,JWS-5M		P-1A	(S)	9700005	9705007	070210505	072444540		9702024*	055413223		

Cage 071211353		P-1A	(D)	9700005	9705007	070210505	072444540		9702016	055413223		
JWS-165LX		P-4	(S)	9700099	9705058	070113329	072442031		080137409	055413470		
JWS-300LX			(D)	9700099	9705058	070113329	072442031		080138001	055413462		
JWS-400												
JWS-400		P-4	(S)	9700099	9705058	070113329	072442031		080137409	055413553		
Tapered Seats			(D)	9700099	9705058	070113329	072442031		080138258	055413470		

[OFM Pump](#)
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1000-1300WS	4 - 4-1/2	P-5		9700129	9705066	070113352	072442155	070113352BD	080110000	055413546		
1000-1300WS	5 - 7-1/2	P-6		9700170	9705074	070113402	072442254	070113402BD	080121148	055413546		
350-500 AWS	2.75-3	P-2		9700013	9705015				080100787	8202117		
	3.5-4	P-4		9700099	9705058	070113329	072442031		080129901	055413546		
	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	080110000	055413538		
880 AWS	3.5-4	P-4		9700080	9705040	070113303	072442023		080130297	055413546		
	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055413520		
	5.5-6	P-6		9700170	9705074	070113402	072442254		080121148	055413512		
1000AWS, 1300AWS	3.75-4	P-4		9700080	9705040	070113303	072442023	070113304BD	080130297	055413546		
1600AWS, 1800AWS	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055413520		
1600BWS	5.5-6	P-6		9700170	9705074	070113402	072442254	070113402BD	080121148	055413512		
GD-2000	6.5-7.5	P-7		9700234	9705082	070113451	072442353		080123029	055403570		
D-750 (Piston Pump)		P-6		9700170	9705074	070113402	072442254	070113402BD	080121148	055413546		
350D, 350DG				9700188	9705040				080129901	055409106		
350DWS				9700129	9705066	070113352	072442155	070113352BD	080110000	055413546		
500DC, 600D				9700285	9705090	NA	NA		9702547	8201650		

700 DL, 700 HDL												
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	Size			RN Valve	RN Insert	SM Valve	SM Insert	SM Bonded	Seat	Spring	SS Spring	HS Spring
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Oilwell

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510-P 10" x 5" x10" 10" x 4-1/2" x10" 6P-LD	5x10 4x6	P-3		9700056	9705023	070113550	072442429		080102304	055403000		
46P, 346P, 326P		P-3 P-3	(S) (D)	9700056 9700056	9705023 9705023	070113550 070113550	072442429 072442429		080102304 080102304	055412068 055404404		
560PT		P-6		9700170	9705074	070113402	072442254		080121007	055412902		
SA-866-10	6-3/4x10	P-6		9700170	9705074	070113402	072442254		080121155	055403398		
SA-625-5, SA-626-5, SA-630-5, SA-634-5		P-2		9700013	9705015	070210117	072443104	070210117BD	080100787			
SA-640-5, SB-640-5 SA-650 (4 x 6)		P-4		9700099	9705058	070113329	072442031		080130172	055409809	055403067	
SB-644-5, SA-644-5, SA-644-10, SA-650-5, SA-650-10, SB-650-5		P-5		9700129	9705066	070113352	072442155	070113352BD	080110000	055403067	055403067	055403042
650-10, S625		P-5	(S) (D)	9700137 9700129	9705066 9705066	 070113352	 072442155	 070113352BD	080130602 080110000	055403273 055403067	055403273 055403067	 055403042

S620		P-2	(S)	9700021	9705015				080130784			
			(D)	9700013	9705015	070210117	072443104	070210117BD	080130800			
S610	4-1/2x6	P-4	(S)	9700315	9705040	070210109	072442023		080130206	055403166		
		P-3	(D)	9700048	9705023	070113659	072442429		080130305	8201455		
S612	4x6	P-4	(S)	9700315	9705040	070210109	072442023		080130206	055403166		
		P-3	(D)	9700072	9705031				9702148	8201455		
S615	3-1/2x6	P-2	(S)	9700021	9705066				080131006			
		P-2	(D)	9700013	9705015	070210117	072443104	070210117BD	080130800			
326-P		P-3		9700056	9705023	070113550	072442429		080102304			
48-PHD, S830, SA830, SB830, 58-P-HD	5x8	P-4		9700080	9705040	070113303	072442023	070113304BD	080129604	055412068		
Super 48, S824, SA824		P-7		9700234	9705082	070113451	072442353		080123029	055403398		

	Size			RN Valve	RN Insert	SM Valve	SM Insert	SM Bonded	Seat	Spring	SS Spring	HS Spring
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Omega Pump

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W-350	2-2.75	P-2		9700013	9705015	070210117	072443104	070210117BD	080100787			
	3-4.5	P-4		9700110	9705058	070113329	072442031		080129901			
	4.75-5	P-5		9700129	9705066	070113352	072442155	070113352BD	080110000			
W-500	2.5-4	P-4		9700110	9705058	070113329	072442031		080129901	055413546		
	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	080110000	055413520		
	5.5-6.5	P-6		9700170	9705074	070113402	072442254	070113402BD	080121148	055413512		
1000-1300 HP	4-5.25	P-5		9700129	9705066	070113352	072442155	070113352BD	080110000			
	5.5-7	P-6		9700170	9705074	070113402	072442254	070113402BD	080121148			
1300 HP MW F.E.	3.75-4	P-4		9700080	9705040	070113303	072442023	070113304BD	080130297	055413546		
1800 HP MW	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055413520		

F.E.												
W-1000, W-1300	5.5-6	P-6		9700170	9705074	070113402	072442254	070113402BD	080121148	055413512		
W-2000, C-1000	6.5-7	P-7		9700234	9705082	070113451	072442353		080123029	055403570		
D-750 (Piston Pump)		P-6		9700170	9705074	070113402	072442254		080121148			

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350-500 AWS	2.75-3	P-2		9700013	9705015				080100787	8202117		
	3.5-4	P-4		9700099	9705058	070113329	072442031		080129901	055413546		
	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	080110000	055413538		
350 (Baker Sand C.)		P-3		9700030*	N/A	N/A	N/A		9702105	055403588		
*Bonded Valve		P-3		9700370	9705031				9702105	055403588		
880 AWS	3.5-4	P-4		9700080	9705040	070113303	072442023	070113304BD	080130297	055413546		
	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055413520		
	5.5-6	P-6		9700170	9705074	070113402	072442254		080121148	055413512		
1000AWS, 1300AWS	3.75-4	P-4		9700080	9705040	070113303	072442023	070113304BD	080130297	055413546		
1800AWS, 1600BWS	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055413520		
750AWS	5.5-6	P-6		9700170	9705074	070113402	072442254	070113402BD	080121148	055413512		
	6.5-7.5	P-7		9700234	9705082	070113451	072442353		080123029	055403570		
1000WS, 1300WS,	4-5.25	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055413538		
GT-78-1000	5.5-6.75	P-6		9700170	9705074	070113402	072442254	070113402BD	080121148	055413512		
700D, G-1500		P-6	(S)	9700170	9705074	070113402	072442254	070113402BD	080121148	055413538		
		P-6	(D)	9700170	9705074	070113402	072442254	070113402BD	080121148	055413512		

350 DWS		P-5		9700129	9705066	070113352	072442155	070113352BD	080110000	055413538		
350 D *Cage PFO4C1 Req'd		P-4		9700080	9705040	070113303	072442023		PFO-4-S2*	055409106		

	Size			RN Valve	RN Insert	SM Valve	SM Insert	SM Bonded	Seat	Spring	SS Spring	HS Spring
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Pinion

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5 x 5	5"	P-5		9700129	9705066	070113352	072442155	070113352BD	080110000	055413538		
RB5	5"											
RB6	6"											

Serva Corp

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TBP-600	2.5 - 3	P-2		9700013	9705015	070210117	072443104	070210117BD	080100787	8202117		
	3.5 - 4.5	P-4		9700099	9705058	070113329	072442031		080129901	055413546		

SJ Petroleum

Mach

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SJ-300, SJ-400, SJ-500, SJ-800		P-5		9700129	9705066	070113352	072442155		XM-245			

SPM

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TWS 250	1.75 - 3	P-2		9700013	9705015	070210117	072443104	070210117BD	080100787	8202117		
	3.25 - 4	P-4		9700099	9705058	070113329	072442031		080129901	055413546		
TWS 400	2.5-3	P-2		9700013	9705015	070210117	072443104	070210117BD	080100787	8202117		
	3.5-4.5	P-4		9700099	9705058	070113329	072442031		080129901	055413546		
TBH 175, TBH 225	1.75 - 3	P-2		9700013	9705015	070210117	072443104	070210117BD	080100787	8202117		

TBH 350, TBH 550	3.5-4.5	P-4		9700099	9705058	070113329	072442031		080129901	055413546		
TWS 600,TWS 500LW	2.75	P-2		9700013	9705015	070210117	072443104	070210117BD	080100787	8202117		
	3 - 4.75	P-4		9700099	9705058	070113329	072442031		080129901	055413546		
TWS600S	2.5 - 3	P-2		9700013	9705015	070210117	072443104	070210117BD	080100787	8202117		
	3.5 - 4.5	P-4		9700099	9705058	070113329	072442031		080129901	055413546		
TWS 900	3.5-4	P-4		9700080	9705040	070113303	072442023	070113304BD	080129901	055413546		
QWS 1000	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055413520		
	5.5-6	P-6		9700170	9705074	070113402	072442254		080121148	055413512		
TWS 1250LW	4"	P-3		9700056	9705023	070113550	072442429		080102304			
TWS 2500												
Destiny w/	4"	P-4		9700080	9705040	070113303	072442023	070113304BD	XM-357	055413546		
Duralast FE	4.5"- 5"	P-5		9700129	9705066	070113352	072442155	070113352BD	XM-353	055413520		
TWS 1300, TWS 1600	3.5-4	P-4		9700080	9705040	070113303	072442023	070113304BD	080130297	055413546		
TWS 1600LW,	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055413520		
TWS 1800, TWS 2000,	5.5-6	P-6		9700170	9705074	070113402	072442254		080121148	055413512		
TWS 2250	6.5-7.5	P-7		9700234	9705082	070113451	072442353		080123029	055403570		
QWS 2000LW -												
QWS 2500LW												
QWS 3500												
TBH 1050												
QBH 1575												
3000		P-6		9700170	9705074	070113402	072442254		080121255			

	Size			RN Valve	RN Insert	SM Valve	SM Insert	SM Bonded	Seat	Spring	SS Spring	HS Spring
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TFI(Texas

Industrial)

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ZB-400II	4 - 4.5	P-4		9700099	9705058	070113329	072442031		080129901	055413546		

Twentieth

Century

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658	6-1/2x8	P-6	(S)	9700170	9705074	070113402	072442254		080121148	055413504		
		P-6	(D)	9700170	9705074	070113402	072442254		080121148	055413488		
458	4-1/2x8	P-5		9700129	9705066	070113352	072442155	070113352BD	080110000	055402895		
406	4x6	P-4		9700080	9705040	070113303	072442023		080129703	055401806		
HD-1000	3.75-4	P-4		9700080	9705040	070113303	072442023		080130297			
HD-1300	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	080120504			
HD-1600	5.5-6	P-6		9700170	9705074	070113402	072442254		080121148			
HD-1800	6.5-7.5	P-7		9700234	9705082	070113451	072442353		080123029			

ValTek

Fluid

End

2250 Triplex	3.5-4	P-4		9700080	9705040	070113303	072442023		080130297	055413546		
	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	XM-452	055413520		
	5.5-6	P-6		9700170	9705074	070113402	072442254		080121148	055413512		
	6.5-7.5	P-7		9700234	9705082	070113451	072442353		080123029	055403570		
2500 Quint	3.5-4	P-4		9700080	9705040	070113303	072442023		080130297	055413546		
	4.5-5	P-5		9700129	9705066	070113352	072442155	070113352BD	XM-452	055413520		

Western Co.

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RB 80		P-5	(S)	9700129	9705066	070113352	072442155	070113352BD	080110000	055402929		
RB 81		P-5	(D)	9700129	9705066	070113352	072442155	070113352BD	080120504	8201536		
		P-5		9700129	9705066	070113352	072442155	070113352BD	080120504	055403067		
Roughrider 300	2.75	P-2	(S)	9700021	9705015				080131006			

Roughrider 500 (Segmented F.E.)	2.75	P-2	(D)	9700013	9705015	070210117	072443104	070210117BD	080130800			
	3.5	P-2	(S)	9700021	9705015				080131006			
	3.5	P-2	(D)	9700013	9705015	070210117	072443104	070210117BD	080130800			
	4.5	P-4	(S)	9700315	9705040	070210109	072442023		080130206	055403166		
	4.5	P-4	(D)	9700048	9705023	070113659	072442429		080130305	8201455		
Roughrider 1000 (Segmented F.E.)	5	P-5	(S)	9700137	9705066				080130602	055403273		
		P-5	(D)	9700129	9705066	070113352	072442155	070113352	080110000	055403067	055403067	055403042
Roughrider 500 (Mono Block F.E.)	3.5 & 4.5	P-4		9700099	9705058	070113329	072442031		080130172			
Roughrider 1000 (Mono Block F.E.)	4	P-3		9700056	9705023	070113550	072442429		080102304			
	4.5 & 5	P-5		9700129	9705066	070113352	072442155	070113352BD	080110000			
Roughrider 1500	4	P-3		9700056	9705023	070113550	072442429		080102304			
	5	P-5		9700129	9705066	070113352	072442155	070113352BD	080110000			

	Size			RN Valve	RN Insert	SM Valve	SM Insert	SM Bonded	Seat	Spring	SS Spring	HS Spring
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Fig. 2180	8x10	P-5		9700161	9705066				9702342	055412407	
Fig. 2180-A	8x10										
Fig. 2070	7x10										
Fig. 1570	7x10										
Fig. 2170	7x10										
Fig. 2170-A	7x10										

Fig. 5830	5x10	P-4		9700102	9705040	070113303	072442023		9702520	055413207	
Fig. 5850	5x10										
Fig. 6050-A	5x10										
Fig. 2050-A	5x10										
Fig. 1550-A	5x10										
Fig. 7036	6x6										
Fig. 1336	6x6										
Fig. 1036	6x6										
Fig. 2150	5x10	P-3		9700072	9705031				HF-3-S13	055403604	8201005
Fig. 2150-A	5x10										
Fig. 2050	5x10										
Fig. 2050-B	5x10										
Fig. 1550	5x10										
Fig. 7024	4x6	P-2		9700242	9705210				HF-2-S11	055403208	
Fig. 7024-B	4x6										
Fig. 1324	4x6										
Fig. 1024	4x6										
3P-450, 5P-450		P-5	(S)	9700129	9705066	070113352	072442155	070113352BD	080110000	055402895	
F-300, F-400		P-3	(D)	9700056	9705023	070113550	072442429		080101009	055402887	
S-400, SP-400											
S-450, SP-450											
3F-165P, 3F-165		P-3	(S)	9700056	9705023	070113550	072442429		080101009	055402895	
			(D)	9700056	9705023	070113550	072442429		080101009	055402887	
3F-750P		P-5		9700129	9705066	070113352	072442155	070113352BD	080110000	055402887	
3F-450											
5F-750											

PG	10x5x10	P-4		9700110	9705058	070113329	072442031		080129109	055412068	055401806	
PG	10x4.5x10											
KKS-1	5x10											
KLS-1	5x10											
KMS-1	5x10											
KIS	5x6	P-2		9700013	9705015	070210117	072443104	070210117BD	HF-2-S12	055403208		
KJS	5x6	P-3		9700072	9705031				HF-3-S03	055403406		
KHS	4x6											
KPS-1	6x10											