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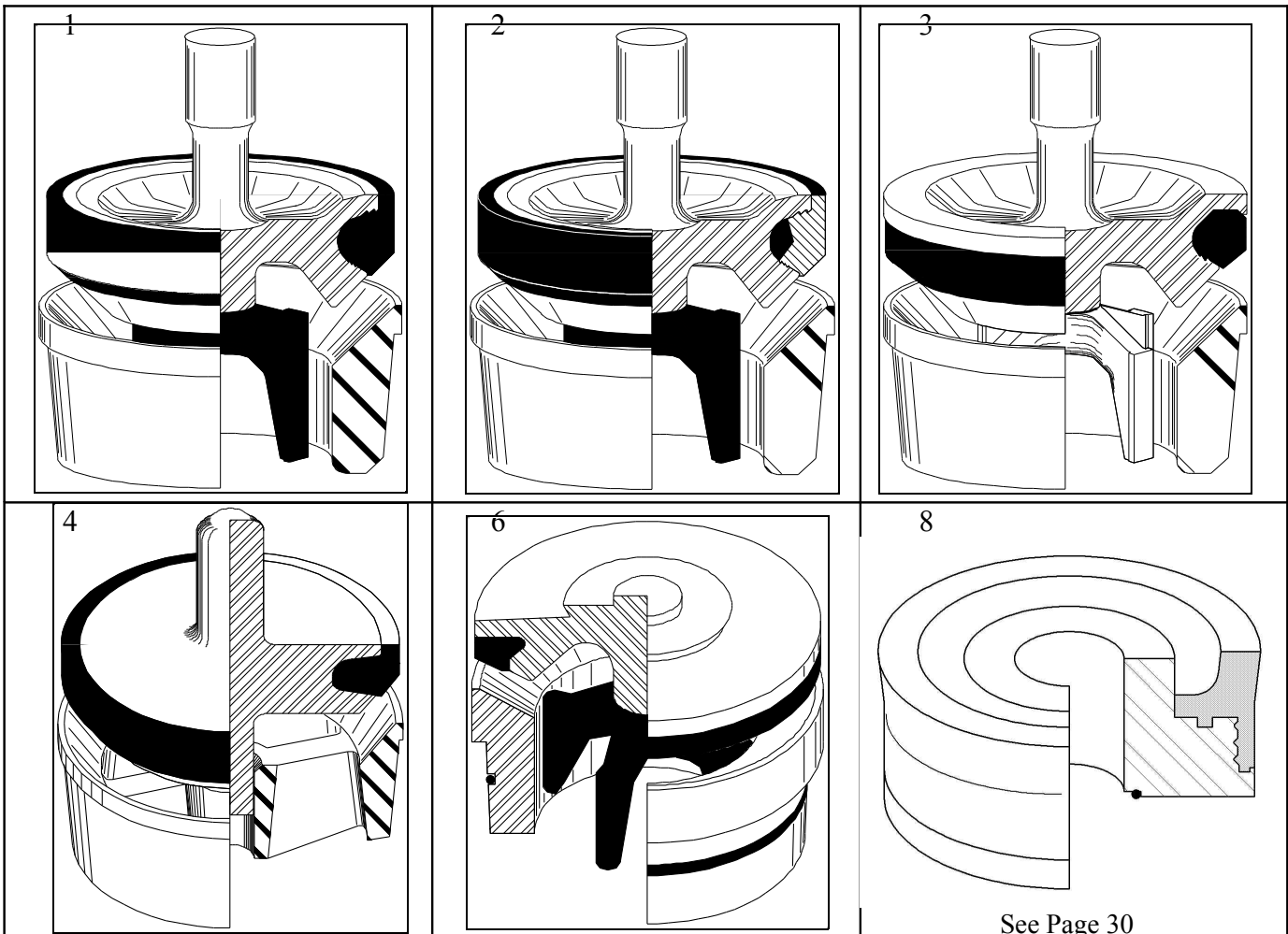


# NOVATECH CATALOGUE GUIDE

Footnotes behind part numbers in subsequent pages correlate with the numbered illustrations below.

- 1 Denotes Full Open Valves with Cast-N-Place™ non-replaceable Inserts. Valves and Seats interchangeable with Harrisburg Roughneck Valves and Seats.
- 2 Denotes Full Open Valves with special High Temperature Cast-N-Place™ non-replaceable Inserts. Valves and Seats interchangeable with Harrisburg Roughneck Valves and Seats.
- 3 Denotes Full Open Valves with Replaceable Novatech “Snap-On” Inserts. Inserts not interchangeable with Harrisburg Roughneck Inserts. Valves and Seats interchangeable with Harrisburg Roughneck.
- 4 Denotes Stem Guided Valves with Cast-N-Place™ non-replaceable Inserts, one-piece valve body. Valves and Seats interchangeable with Mission Supreme Valves and Seats.
- 5 (Not Shown) Denotes Stem Guided Valves with High Temperature Cast-N-Place™ non-replaceable Inserts, one-piece valve body; interchangeable with Mission Supreme Valves and Seats.
- 6 Denotes Well Service Valves with Replaceable Novatech “Snap-On” Inserts. Inserts; interchangeable with SPM and Harrisburg Roughneck Valves, Inserts, & Seats.
- 7 (Not shown) Denotes Well Service Valves with Cast-N-Place™ non-replaceable Inserts; interchangeable with SPM & Harrisburg Roughneck Valves and Seats.
- 8 Novatech Piston; for additional details, please see page of catalogue

In the pump listings: Pages 2 - 19	Part Numbers above the <u>underline</u> denote Mud Pump Full Open Valve and Seat. Part Numbers below the <u>underline</u> denote Mud Pump Stem Guided Valve and Web Seat. # Denotes Optional Valve, Seat, or Spring for this specific pump only!
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Cast-N-Place™ is a Trademark of Novatech LLC and is protected by U. S. Patent No. 6,955,181.

Pump Model	Plunger Size	Valve Part #	Seat Part #	Spring Part #	Insert Part #	Cage Part #	Puller Part #
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**APLEX**

ND-4-S3	5710-33	NF-4-I	ND-4-C1	ND-4-PH	NF-4-I	ND-4-C1	ND-4-PH
ND-4-S2	5710-33	NF-4-I	ND-4-C1	ND-4-PH	NF-4-I	ND-4-C1	ND-4-PH

**American Block**

K-2200		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S7 ND-8-S7	5710-115L 5710-115L			ND-8-PH ND-8-PH
K-1600		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> ND-7-V1 <sup>3</sup> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S12 ND-7-S12 ND-7-S12 N7-DDB12 N7-DDB12	5710-115L 5710-115L 5710-115L 5710-115 5710-115	ND-7-I		ND-7-PH ND-7-PH ND-7-PH
K-1300 K-1000 K-800		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> ND-6-V1 <sup>3</sup> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S4 ND-6-S4 ND-6-S4 N6A-DDB4 N6A-DDB4	5710-115 5710-115 5710-115 5710-115 5710-115	ND-6-I		ND-6-PH ND-6-PH ND-6-PH

**BA0JI - BOMCO**

F-2200, F-2200HL		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S2 ND-8-S2	5710-115L 5710-115L			ND-8-PH ND-8-PH
F-1600HL F-1600 F-1300		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> ND-7-V1 <sup>3</sup> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 ND-7-S1 N7-DDB1 N7-DDB1	5710-115L 5710-115L 5710-115L 5710-115 5710-115	ND-7-I		ND-7-PH ND-7-PH ND-7-PH
F-1000 F-800		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> ND-6-V1 <sup>3</sup> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 ND-6-S6 N6A-DDB6 N6A-DDB6	5710-115 5710-115 5710-115 5710-115 5710-115	ND-6-I		ND-6-PH ND-6-PH ND-6-PH
F-500		ND-5-V2 <sup>1</sup>	ND-5-S1	5710-30			ND-5-PH

**BJ**

Pacemaker (Horizontal Suction) Discharge Suction	3½-5						
		NF-4-V1 <sup>6</sup> NF-5-V4 <sup>6</sup>	NF-4-S16 NF-5-S4	1235-84 1235-143	NF-4-I NF-5-I		ND-4-PH
Pacemaker (Vertical Suction)	3½-5	NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-5-S1 NF-5-S1	19000-3 19000-3	NF-5-I		ND-5-PH ND-5-PH

**BJ – WHEATLEY**

BJ-8		NF-4-V5 <sup>6</sup>	NF-4-S10	1235-84	NF-4-I		ND-4-PH
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**CLARK**

T-440-A,-B T-380,-A,-B,-S		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> ND-7-V1 <sup>3</sup> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 ND-7-S1 N7-DDB1 N7-DDB1	5710-30 5710-30 5710-30 5710-30 5710-30	ND-7-I		ND-7-PH ND-7-PH ND-7-PH
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Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

Pump Model	Plunger Size	Valve Part #	Seat Part #	Spring Part #	Insert Part #	Cage Part #	Puller Part #
<b>CMW (CLARKSVILLE)</b>							
H-1600	3¾-4	NF-4-V1 <sup>6</sup>	NF-4-S1	19000-4	NF-4-I		ND-4-PH
C-1300	4½-5	NF-5-V1 <sup>6</sup>	NF-5-S1	19000-2	NF-5-I		ND-5-PH
C-1800	4½-5	NF-5-V1-C <sup>7</sup>	NF-5-S1	19000-2	N.A.		ND-5-PH
J-2000	5½-6	NF-6-V1 <sup>6</sup>	NF-6-S3	19000-1	NF-6-I		NF-6-PH
	5½-6	NF-6-V1-C <sup>7</sup>	NF-6-S3	19000-1	N.A.		NF-6-PH
	6½-6¾	NF-7-V1 <sup>6</sup>	NF-7-S1	1235-140	NF-7-I		NF-7-PH
<b>DEMAY</b>							
HD-500	3¾	NF-3-V5	NF-3-S7	1235-3HD			N.A.
	4-4½	NF-4-V8	NF-4-S19	1235-4HD	NF-4-I		ND-4-PH
	5½	N.A.	N.A.				N.A.
<b>Dowell</b>							
MD01, ME02, ME03, MF04, TD04, TE04, TE05, TF04-05(Dis), TF06, TF07, TF09, TG05, TG06, TH05, TH08, TL05, TL06, TL07, OG01, OG02, OL02, OL03, FOP1, EOP1, EOP12	Suction:						
	22.5K	NF-5-V1C- 22.5K <sup>7</sup>	NF-5-DS1				ND-5-PH
	15K	NF-5-V1C- 15K <sup>7</sup>	NF-5-DS1				ND-5-PH
	Discharge	NF-5-V1-C <sup>7</sup>	NF-5-DS1				ND-5-PH
<b>DRAGON</b>							
660HP		ND-5-V2 <sup>1</sup>	ND-5-S1	5710-30			ND-5-PH
<b>DRILLMEC</b>							
12T1600		ND-7-V2 <sup>1</sup>	ND-7-S12	5710-115L			ND-7-PH
		ND-7-V2H <sup>2</sup>	ND-7-S12	5710-115L			ND-7-PH
		<u>ND-7-V1<sup>3</sup></u>	<u>ND-7-S12</u>	<u>5710-115L</u>	<u>ND-7-I</u>		<u>ND-7-PH</u>
		ND-7-EEF <sup>4</sup>	N7-DDB12	5710-115			
		ND-7-EEF-H <sup>5</sup>	N7-DDB12	5710-115			
10T1300, 9T000 8T800		ND-6-V2 <sup>1</sup>	ND-6-S4	5710-115			ND-6-PH
		ND-6-V2H <sup>2</sup>	ND-6-S4	5710-115			ND-6-PH
		<u>ND-6-V1<sup>3</sup></u>	<u>ND-6-S4</u>	<u>5710-115</u>	<u>ND-6-I</u>		<u>ND-6-PH</u>
		ND-6-EH <sup>4</sup>	N6A-DDB4	5710-115			
		ND-6-EH-H <sup>5</sup>	N6A-DDB4	5710-115			
7TS600		ND-5-V2 <sup>1</sup>	ND-5-S3	5710-115	NF-5-I		ND-5-PH

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

Pump Model	Plunger Size	Valve Part #	Seat Part #	Spring Part #	Insert Part #	Cage Part #	Puller Part #
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### ELLIS WILLIAMS

14-W-400		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-32 5710-32 <u>5710-32</u> 5710-32 5710-32	ND-7-I		ND-7-PH ND-7-PH <u>ND-7-PH</u>
15-W-600 16-W-800		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S2 ND-8-S2	5710-32 5710-32			ND-8-PH ND-8-PH
W-1000, 9-W-1000 W-600, WH-600		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> <u>ND-6-V1<sup>3</sup></u> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 <u>ND-6-S6</u> N6A-DDB6 N6A-DDB6	5710-115 5710-115 <u>5710-115</u> 5710-115 5710-115	ND-6-I		ND-6-PH ND-6-PH <u>ND-6-PH</u>
W-3000		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S2 ND-8-S2	5710-115L 5710-115L			ND-8-PH ND-8-PH
W-1400, W-2000		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-115L 5710-115L <u>5710-115L</u> 5710-115 5710-115	ND-7-I		ND-7-PH ND-7-PH <u>ND-7-PH</u>
W-440-LP, W-446 WH-440		NF-4-V7 <sup>6</sup> NF-4-V2 <sup>6#</sup>	NF-4-S5	5710-38 5710-113 <sup>#*</sup>	NF-4-IA		ND-4-PH
W-440-HP Suction Discharge		NF-2-V1 <sup>6</sup> NF-4-V2 <sup>6</sup>	NF-2-S2 NF-4-S5	5710-17 5710-38	NF-2-I NF-4-IA	NF-2-C1	ND-4-PH
W-250-B,-C		NF-2-V1 <sup>6</sup>	NF-2-S2	5710-17	NF-2-I	NF-2-C1	

### EWECO (ELLIS WILLIAMS ENGINEERING COMPANY)

EH-2200-14 EH-2200-15 EQ-3000, EQ-2200 EQ-1700, EQ-1300 E-2200-15 E-1700-14 (5000Psi FE) E-1600, E-1300 E-1100, E-600 E-800 PZ		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-115L 5710-115L <u>5710-115L</u> 5710-115 5710-115	ND-7-I		ND-7-PH ND-7-PH <u>ND-7-PH</u>
E-1700-14 (7500Psi FE) EQ-1000, EQ-1300 EQ-1700, EQ-2200 EQ-750 EH-1000 E-800		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> <u>ND-6-V1<sup>3</sup></u> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 <u>ND-6-S6</u> N6A-DDB6 N6A-DDB6	5710-115 5710-115 <u>5710-115</u> 5710-115 5710-115	ND-6-I		ND-6-PH ND-6-PH <u>ND-6-PH</u>
EH-2200-14		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S2 ND-8-S2	5710-115L 5710-115L			ND-8-PH ND-8-PH
EH-750, E-447, EQ-570		ND-5-V2 <sup>1</sup>	ND-5-S1	5710-30			ND-5-PH

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

\* Denotes non-stock items

Pump Model	Plunger Size	Valve Part #	Seat Part #	Spring Part #	Insert Part #	Cage Part #	Puller Part #
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### EMSCO

D-850, DC-850 DC-1000, DC-1650 DC-1350, DB-700 D-550, DA-500 DB-550, C-16, B-14		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S2 ND-8-S2	5710-32 5710-32			ND-8-PH ND-8-PH
CA-16, D-16, D-500 D-300, BA-14, D-14 D-375		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-32 5710-32 <u>5710-32</u> 5710-32 5710-32	<u>ND-7-I</u>		ND-7-PH ND-7-PH <u>ND-7-PH</u>
D-225, D-125		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> <u>ND-6-V1<sup>3</sup></u> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 <u>ND-6-S6</u> N6A-DDB6 N6A-DDB6	5710-30 5710-30 <u>5710-30</u> 5710-30 5710-30	<u>ND-6-I</u>		ND-6-PH ND-6-PH <u>ND-6-PH</u>
D-175, D-12, A-10		ND-5-V2 <sup>1</sup>	ND-5-S4	5710-30			ND-5-PH
FC-2200		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S2 ND-8-S2	5710-115L 5710-115L			ND-8-PH ND-8-PH
F-1300, F-1600 FA-1300, FA-1600 FA-1300 II, FA-1600 II FB-1300, FB-1600 FC-1300, FC-1600		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-115L 5710-115L <u>5710-115L</u> 5710-115 5710-115	<u>ND-7-I</u>		ND-7-PH ND-7-PH <u>ND-7-PH</u>
F-800, F-1000		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> <u>ND-6-V1<sup>3</sup></u> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 <u>ND-6-S6</u> N6A-DDB6 N6A-DDB6	5710-115 5710-115 <u>5710-115</u> 5710-115 5710-115	<u>ND-6-I</u>		ND-6-PH ND-6-PH <u>ND-6-PH</u>
F-750, F-650 F-500, F-350		ND-5-V2 <sup>1</sup>	ND-5-S1	5710-30			ND-5-PH
F-350P		ND-4-V1 <sup>6</sup>	NF-4-S5	5710-33 5710-78 <sup>#</sup>	NF-4-I		ND-4-PH
F-350HP (Piston & Plunger)		NF-2-V1 <sup>6</sup>	NF-2-S8	5710-03	NF-2-I	NF-2-C1	

### FAILING

FM-45		NF-4-V5 <sup>6</sup>	NF-4-S8	5710-03	NF-4-I		ND-4-PH
L-100		NF-3-V6 <sup>6</sup>	NF-3-S6	5710-03	NF-3-IA		

### FAIRBANKS MORSE

FIG. 6188		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-30 5710-30 <u>5710-30</u> 5710-30 5710-30	<u>ND-7-I</u>		ND-7-PH ND-7-PH <u>ND-7-PH</u>
FIG. 6285, 6185, 6183		NF-4-V5 <sup>6</sup>	NF-4-S8	5710-03	NF-4-I		ND-4-PH
FIG. 6182, 6181		NF-3-V6 <sup>6</sup>	NF-3-S6	5710-03	NF-3-IA		

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

Pump Model	Plunger Size	Valve Part #	Seat Part #	Spring Part #	Insert Part #	Cage Part #	Puller Part #
<b>GARDNER DENVER (DUPLEX)</b>							
KJ-KXJ-B, GN-GXQ GQ-GXO, GN-GXN GQ-GXN, FK-FXK		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S2 ND-8-S2	5710-32 5710-32			ND-8-PH ND-8-PH
EJ-EQ, EN-EQ EN-EXQ, EJ-FXQ EN-EN, EJ-EN EJ-EXN, EN-EXN FXDA FZ-FXZ, FY-FXX FY-FS, FY-FXD FY-FXE, FXDA FO-FXO, FO-2000 FO-FXO-A Thru -K		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u>	ND-7-S5 ND-7-S5 <u>ND-7-S5</u>	5710-32 5710-32 <u>5710-32</u>	<u>ND-7-I</u>		ND-7-PH ND-7-PH <u>ND-7-PH</u>
FXN, EK-EK, EK-EXK		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-32 5710-32 <u>5710-32</u> 5710-32 5710-32	<u>ND-7-I</u>		ND-7-PH ND-7-PH <u>ND-7-PH</u>
FXZ-FXZ -H, -J FXO-FXO, -B, -L, -M		ND-5-V2 <sup>1</sup>	ND-5-S5	5710-30			ND-5-PH
FD-FS, FD-FJ-A FD-FJ-B, FD-FXD FD-FXE, FC-FXE FC-FS, EF-FS EF-2000, FD-FXX FG-FXG, -P, -R, -T FG-AG, FG-AG-B FG-AG-D, FG-2000 FG-4000, FG-FXG FG-FXG -A Thru -L FD-FXX-J		NF-4-V5 <sup>6</sup>	NF-4-S8	5710-03	NF-4-I		ND-4-PH
EF-FXD, EF-PXD FC-FXD-A Thru -L FC-FXD, FC-FXO EW, EW-1000, FJ-FS EW-FJ, FJ-FJ EW-PXD, EF, ET ET-PXD, FA-FXX FC-FXX-A Thru -M, -V FC-FXX-S EF-FXX-AS Thru -D		NF-4-V7 <sup>6</sup>	NF-4-S2	5710-03	NF-4-IA		ND-4-PH
FC-FXD-R Thru -Z FC-FXX-Z FC-FXX -AA Thru -AG		NF-4-V7 <sup>6</sup>	NF-4-S12	5710-03	NF-4-IA		ND-4-PH
LF-5, FF-AF, FF-AXF FF-2000, FF-4000 FF-FXF, -A Thru -E, -M		NF-3-V6 <sup>6</sup>	NF-3-S6	5710-03	NF-3-IA		
LF-5, FF-AF, FF-AXF FF-2000, FF-4000 FF-FXF, -A Thru -E, -M		NF-3-V6 <sup>6</sup>	NF-3-S6	5710-03	NF-3-IA		

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

Pump Model	Plunger Size	Valve Part #	Seat Part #	Spring Part #	Insert Part #	Cage Part #	Puller Part #
<b>GARDNER DENVER (TRIPLEX DRILLING PUMPS)</b>							
PZ- L(11) -A Thru -F PZ-K(10) PZ-J(9) -C, -D PZ-H(8) -E, VE PZ-G(7) -A, -B		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1</u> <sup>3</sup> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-115L 5710-115L <u>5710-115L</u> 5710-115 5710-115	<u>ND-7-I</u>		ND-7-PH ND-7-PH <u>ND-7-PH</u>
PXL PZ- L(11), PZ-K(10) With 7500 psi. Fluid End API 6 valves & Seats		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> <u>ND-6-V1</u> <sup>3</sup> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 <u>ND-6-S6</u> N6A-DDB6 N6A-DDB6	5710-115 5710-115 <u>5710-115</u> 5710-115 5710-115	<u>ND-6-I</u>		ND-6-PH ND-6-PH <u>ND-6-PH</u>
PZ-9 -A, -B, PV-9 PZ-8 -A, -B, -D PO-7 PY-7 -A, -C, -E, -G		ND-5-V2 <sup>1</sup>	ND-5-S1	5710-30			ND-5-PH
PJ-8A, -B PJHB PAHAA, -D, -E, -F, -J, -K PAH-BFB, -BFC PAHBF, TGF, TGH		ND-4-V1 <sup>6</sup>	NF-4-S5	5710-33 5710-78 <sup>#</sup> *	NF-4-I		ND-4-PH

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

\* Denotes non-stock items

Pump Model	Plunger Size	Valve Part #	Seat Part #	Spring Part #	Insert Part #	Cage Part #	Puller Part #
<b>GARDNER DENVER (TRIPLEX WELL SERVICE PUMPS)</b>							
GD 3000HP Medium Pressure F. E..		NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup>	NF-6-S3 NF-6-S3		NF-6-I		NF-6-PH NF-6-PH
GD 3000HP Med-High Pressure F. E..		NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup>	NF-6-S3 NF-6-S3		NF-6-I		NF-6-PH NF-6-PH
GD 3000HP High Pressure F. E.		NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-5-S1 NF-5-S1		NF-5-I		ND-5-PH ND-5-PH
C-2250, C-2500 C-2500HP HD-2250 GD-2000, GD-2250 GD-2500, GD-2500HP	3¾-4 4½-5 4½-5 5½-6 5½-6 6½-6¾	NF-4-V1 <sup>6</sup> NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup> NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup> NF-7-V1 <sup>6</sup>	NF-4-S1 NF-5-S1 NF-5-S1 NF-6-S3 NF-6-S3 NF-7-S1	19000-4 19000-2 19000-2 19000-1 19000-1 1235-140	NF-4-I NF-5-I N.A. NF-6-I N.A. NF-7-I		ND-4-PH ND-5-PH ND-5-PH NF-6-PH NF-6-PH NF-7-PH
GWS, GD 1250 GWS 2250	5-5½	NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-5D-S1 NF-5D-S1		NF-5-I		ND-5-PH
GD-1000 Warthog GD-1000HP	3½-4 4½-5 4½-5 5½-6 5½-6	NF-4-V1 <sup>6</sup> NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup> NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup>	NF-4-S1 NF-5-S1 NF-5-S1 NF-6-S3 NF-6-S3	19000-4 19000-2 19000-2 19000-1 19000-1	NF-4-I NF-5-I N.A. NF-6-I N.A.		ND-4-PH ND-5-PH ND-5-PH NF-6-PH NF-6-PH
Compact 600HP OPI 600, -600HP	2¾-3 3½ - 4 4½-5 4½-5	NF-2-V1 <sup>6</sup> NF-4-V2 <sup>6</sup> NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-2-S1 NF-4-S2 NF-5-S2 NF-5-S2	1235-141 19000-4 19000-3 19000-3	NF-2-I NF-4-IA NF-5-I		ND-4-PH ND-5-PH ND-5-PH
PA-8C, -D, -E		NF-4-V7 <sup>6</sup>	NF-4-S2	5710-17	NF-4-IA		ND-4-PH
PA-8H, -K, -L, -Q, PA-8R, -S, -U, -Y		NF-4-V7 <sup>6</sup>	NF-4-S12	5710-17	NF-4-IA		ND-4-PH
PA-8N, TEEA-D PAHAA (Plunger Model) PAHAF (Plunger Model) PE-5C, -E, -J, -U TEE-BAA		NF-2-V1 <sup>6</sup>	NF-2-S2	5710-03	NF-2-I	NF-2-C1	
PE-5T, -Z TEEBFB, TEEBFC, TEED-D, TEEE-D, TEEB-D, TGE 2 Inch Seat ID 2.375 Inch Seat ID		NF-2-V1 <sup>6</sup> NF-2-V3 <sup>6#</sup>	NF-2-S5 NF-2-S9 <sup>#</sup>	5710-03 5710-03	NF-2-I NF-2-IA	NF-2-C1 NF-2-C1	
PE-5F, -G, -H, -K, -L, Q PE-5R, -T, -V, -W, -X PE-5Y, -Z, -AA, -AB TEEBCA, -BGB, -BFA		NF-1A-V1 <sup>6</sup>	NF-1A-S1	5710-03	NF-1A-I	NF-1A-C1	

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

Pump Model	Plunger Size	Valve Part #	Seat Part #	Spring Part #	Insert Part #	Cage Part #	Puller Part #
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### GASO

FIG. 550, 1550, 1550C, 1560, 1563, 2050, 1847, 1860, 2247, 1849, 2249		NF-4-V7 <sup>6</sup>	NF-4-S7	5710-33	NF-4-IA		ND-4-PH
3968, 3969, 3671WS, 3673, 3675, 5885WS, 3775, 3776		NF-3-V6 <sup>6</sup>	NF-3-S9	5710-17	NF-3-IA	NF-3-C1	
FIG. 1742, 1755, 1654, 1654C, 1757		NF-4-V7 <sup>6</sup>	NF-4-S13A	5710-05	NF-4-IA		ND-4-PH

### GEOQUIP

H-600	3½ - 4½	NF-4-V2 <sup>6</sup>	NF-4-S2	19000-4	NF-4-IA		ND-4-PH
H-880	3½-4	NF-4-V1 <sup>6</sup>	NF-4-S1	19000-4	NF-4-I		ND-4-PH
LC-1200	4½-5	NF-5-V1 <sup>6</sup>	NF-5-S1	19000-2	NF-5-I		ND-5-PH
	4½-5	NF-5-V1-C <sup>7</sup>	NF-5-S1	19000-2	N.A.		ND-5-PH
	5½-6	NF-6-V1 <sup>6</sup>	NF-6-S3	19000-1	NF-6-I		NF-6-PH
	5½-6	NF-6-V1-C <sup>7</sup>	NF-6-S3	19000-1	N.A.		NF-6-PH
H-1600	3¾-4	NF-4-V1 <sup>6</sup>	NF-4-S1	19000-4	NF-4-I		ND-4-PH
C-1300	4½-5	NF-5-V1 <sup>6</sup>	NF-5-S1	19000-2	NF-5-I		ND-5-PH
C-1800	4½-5	NF-5-V1-C <sup>7</sup>	NF-5-S1	19000-2	N.A.		ND-5-PH
J-2000	5½-6	NF-6-V1 <sup>6</sup>	NF-6-S3	19000-1	NF-6-I		NF-6-PH
	5½-6	NF-6-V1-C <sup>7</sup>	NF-6-S3	19000-1	N.A.		NF-6-PH
	6½-6¾	NF-7-V1 <sup>6</sup>	NF-7-S1	1235-140	NF-7-I		NF-7-PH

### GIST

GT-78-1000 (Plunger)	4 - 4½	NF-5-V1 <sup>6</sup>	NF-5-S2	19000-3	NF-5-I		ND-5-PH
		NF-5-V1-C <sup>7</sup>	NF-5-S2	19000-3			ND-5-PH
GT-78-1000 (Plunger)	5 - 7½	NF-6-V1 <sup>6</sup>	NF-6-S3	19000-4	NF-6-I		NF-6-PH
		NF-6-V1-C <sup>7</sup>	NF-6-S3	19000-4			NF-6-PH
GT-68-500, GPO-500		ND-4-V1 <sup>6</sup>	ND-4-S2	5710-33	NF-4-I	ND-4-C1	ND-4-PH
GT-78-1000 (Piston)		NF-6-V1 <sup>6</sup>	NF-6-S3	19000-4	NF-6-I		NF-6-PH
		NF-6-V1-C <sup>7</sup>	NF-6-S3	19000-4			NF-6-PH

### GREAT AMERICAN

GA-550,		ND-8-V2 <sup>1</sup>	ND-8-S2	5710-32			ND-8-PH
GA-750		ND-8-V2H <sup>2</sup>	ND-8-S2	5710-32			ND-8-PH

### HALLIBURTON

HT-400 (Piston F. E.)		ND-4-V1 <sup>6</sup>	ND-4-S2	5710-33	NF-4-I	ND-4-C1	ND-4-PH
T-10		NF-4-V7 <sup>6</sup>	NF-4-S7		NF-4-IA		ND-4-PH
HT-400 (Plunger F. E.)	3¾-4	NF-3-V5	NF-3-S7	1235-3HD			N.A.
	4½	NF-4-V8	NF-4-S19	1235-4HD	NF-4-I		ND-4-PH
	5½	N.A.	N.A.				N.A.

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

Pump Model	Plunger Size	Valve Part #	Seat Part #	Spring Part #	Insert Part #	Cage Part #	Puller Part #
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### HONGHUA

HHF-1600 HHF-1300		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-115L 5710-115L <u>5710-115L</u> 5710-115 5710-115	<u>ND-7-I</u>		ND-7-PH ND-7-PH <u>ND-7-PH</u>
HHF-1000 HHF-800		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> <u>ND-6-V1<sup>3</sup></u> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 <u>ND-6-S6</u> N6A-DDB6 N6A-DDB6	5710-115 5710-115 <u>5710-115</u> 5710-115 5710-115	<u>ND-6-I</u>		ND-6-PH ND-6-PH <u>ND-6-PH</u>
HHF-500		ND-5-V2 <sup>1</sup>	ND-5-S1	5710-30			ND-5-PH

### IDECO

MM-700A, MM-700F MM-600F, MM-600FB MM-550F		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S2 ND-8-S2	5710-32 5710-32			ND-8-PH ND-8-PH
MM-450, MM300 T-440-B, -C		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-32 5710-32 <u>5710-32</u> 5710-32 5710-32	<u>ND-7-I</u>		ND-7-PH ND-7-PH <u>ND-7-PH</u>
MM-200		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> <u>ND-6-V1<sup>3</sup></u> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 <u>ND-6-S6</u> N6A-DDB6 N6A-DDB6	5710-30 5710-30 <u>5710-30</u> 5710-30 5710-30	<u>ND-6-I</u>		ND-6-PH ND-6-PH <u>ND-6-PH</u>
T-500, T-800, T-1000		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> <u>ND-6-V1<sup>3</sup></u> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 <u>ND-6-S6</u> N6A-DDB6 N6A-DDB6	5710-115 5710-115 <u>5710-115</u> 5710-115 5710-115	<u>ND-6-I</u>		ND-6-PH ND-6-PH <u>ND-6-PH</u>
T-1300, T-1600		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-115L 5710-115L <u>5710-115L</u> 5710-115 5710-115	<u>ND-7-I</u>		ND-7-PH ND-7-PH <u>ND-7-PH</u>

### K&T

TEE, PE5, 165, 400		NF-2-V1 <sup>6</sup>	NF-2-S8	5710-03	NF-2-I	NF-2-C1	
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Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

Pump Model	Plunger Size	Valve Part #	Seat Part #	Spring Part #	Insert Part #	Cage Part #	Puller Part #
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### LETOURNEAU - LEWCO

14-W-400		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-32 5710-32 <u>5710-32</u> 5710-32 5710-32	ND-7-I		ND-7-PH ND-7-PH <u>ND-7-PH</u>
15-W-600 16-W-800		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S2 ND-8-S2	5710-32 5710-32			ND-8-PH ND-8-PH
W-3000		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S2 ND-8-S2	5710-115L 5710-115L			ND-8-PH ND-8-PH
W-1400, W-2000 W-2214, W-2215 WH-1611 (5000 Psi)		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-115L 5710-115L <u>5710-115L</u> 5710-115 5710-115	ND-7-I		ND-7-PH ND-7-PH <u>ND-7-PH</u>
W-1100, W-1712 W-1714, WH-1000 W-1000, 9-W-1000 W-600 WH-1000, WH-1312 WH-1611 (7500 Psi) WH-1612, WH-2000 WH-2214		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> <u>ND-6-V1<sup>3</sup></u> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 <u>ND-6-S6</u> N6A-DDB6 N6A-DDB6	5710-115 5710-115 <u>5710-115</u> 5710-115 5710-115	ND-6-I		ND-6-PH ND-6-PH <u>ND-6-PH</u>
WH-600, WH-800		ND-5-V2 <sup>1</sup>	ND-5-S1	5710-30			ND-5-PH
W-446, W-446-SF		ND-4-V1 <sup>6</sup>	NF-4-S5	5710-33 5710-78 <sup>#</sup>	NF-4-I		ND-4-PH
W-440-LP WH-440		NF-4-V7 <sup>6</sup> NF-4-V2 <sup>6#</sup>	NF-4-S5	5710-38 5710-113 <sup>#*</sup>	NF-4-IA		ND-4-PH
W-440-HP Suction Discharge		NF-2-V1 <sup>6</sup> NF-4-V2 <sup>6</sup>	NF-2-S2 NF-4-S5	5710-17 5710-38	NF-2-I NF-4-IA	NF-2-C1	ND-4-PH
W-250-B,-C		NF-2-V1 <sup>6</sup>	NF-2-S2	5710-17	NF-2-I	NF-2-C1	

### MSI (DIXIE IRON WORKS)

TI 600	2 <sup>3</sup> / <sub>4</sub> -3 3 <sup>1</sup> / <sub>2</sub> - 4 <sup>1</sup> / <sub>2</sub>	NF-2-V1 <sup>6</sup> NF-4-V2 <sup>6</sup>	NF-2-S1 NF-4-S2	1235-141 19000-4	NF-2-I NF-4-IA		ND-4-PH
QI 1000	2 <sup>3</sup> / <sub>4</sub> -3 3 <sup>1</sup> / <sub>2</sub> - 4 <sup>1</sup> / <sub>2</sub>	NF-2-V1 <sup>6</sup> NF-4-V2 <sup>6</sup>	NF-2-S1 NF-4-S2	1235-141 19000-4	NF-2-I NF-4-IA		ND-4-PH

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

\* Denotes non-stock items

Pump Model	Plunger Size	Valve Part #	Seat Part #	Spring Part #	Insert Part #	Cage Part #	Puller Part #
<b>NATIONAL</b>							
N-1600, N-1300, N-900 N-1100, N-1000 H-1250 "N" Type G-1000-C "N" Type E-700 "N" Type		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S7 ND-8-S7	5710-32 5710-32			ND-8-PH ND-8-PH
K-700A, K-500(Cast) K-500(Forged) C-250(Forged)		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S2 ND-8-S2	5710-32 5710-32			ND-8-PH ND-8-PH
K-380, K-280, K-180 C-150B, C-150		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> ND-7-V1 <sup>3</sup> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 ND-7-S1 N7-DDB1 N7-DDB1	5710-32 5710-32 5710-32 5710-32 5710-32	ND-7-I		ND-7-PH ND-7-PH ND-7-PH
KSH-280, KSH-180		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> ND-6-V1 <sup>3</sup> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 ND-6-S6 N6A-DDB6 N6A-DDB6	5710-32 5710-32 5710-32 5710-32 5710-32	ND-6-I		ND-6-PH ND-6-PH ND-6-PH
14-P-200, 14-P-220		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S7 ND-8-S7	5710-115L 5710-115L			ND-8-PH ND-8-PH
12-P-160		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> ND-7-V1 <sup>3</sup> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S12 ND-7-S12 ND-7-S12 N7-DDB12 N7-DDB12	5710-115L 5710-115L 5710-115L 5710-115 5710-115	ND-7-I		ND-7-PH ND-7-PH ND-7-PH
10-P-130, 9-P-100 8-P-80		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> ND-6-V1 <sup>3</sup> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S4 ND-6-S4 ND-6-S4 N6A-DDB4 N6A-DDB4	5710-115 5710-115 5710-115 5710-115 5710-115	ND-6-I		ND-6-PH ND-6-PH ND-6-PH
7-P-50		ND-5-V2 <sup>1</sup>	ND-5-S3	5710-115	NF-5-I		ND-5-PH
JWS-400 Suction (Pistons) Suction Discharge Discharge		NF-3-V4 <sup>6</sup> NF-3-V3 <sup>6#</sup> NF-3-V4 <sup>6</sup> NF-3-V3 <sup>6#</sup>	NF-3-S11 NF-3-S11 NF-3-S10 NF-3-S10	19000-5 19000-5 5710-115 5710-115	NF-3-I NF-3-I NF-3-I NF-3-I		
JWS-165L Suction JWS-5L Suction JWS-300L Discharge Discharge		NF-4-V7 <sup>6</sup> NF-4-V2 <sup>6#</sup> NF-4-V7 <sup>6</sup> NF-4-V2 <sup>6#</sup>	NF-4-S17 NF-4-S17 NF-4-S18 NF-4-S18	19000-6 19000-6 5710-118 5710-118	NF-4-IA NF-4-IA NF-4-IA NF-4-IA		ND-4-PH ND-4-PH ND-4-PH ND-4-PH
JWS-185 Suction JWS-340 Suction Discharge Discharge		NF-4-V7 <sup>6</sup> NF-4-V2 <sup>6#</sup> NF-4-V7 <sup>6</sup> NF-4-V2 <sup>6#</sup>	NF-4-S17 NF-4-S17 NF-4-S18 NF-4-S18	National Springs Suction & Discharge	NF-4-IA NF-4-IA NF-4-IA NF-4-IA		ND-4-PH ND-4-PH ND-4-PH ND-4-PH
JWS-400 w/Cage Valve JWS-165LX , -300LX		Not Available	Not Available	Not Available	Not Available		
D-50		NF-4-V7 <sup>6</sup>	NF-4-S13A	5710-06	NF-4-IA		ND-4-PH

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

<b>Pump Model</b>	<b>Plunger Size</b>	<b>Valve Part #</b>	<b>Seat Part #</b>	<b>Spring Part #</b>	<b>Insert Part #</b>	<b>Cage Part #</b>	<b>Puller Part #</b>
<b>OFM</b>							
1000-1300WS	4 - 4½	NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-5-S2 NF-5-S2	19000-3 19000-3	NF-5-I		ND-5-PH ND-5-PH
1000-1300WS	5 - 7½	NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup>	NF-6-S3 NF-6-S3	19000-4 19000-4	NF-6-I		NF-6-PH NF-6-PH
350 AWS, 500 AWS	2¾-3 3½ - 4 4½-5 4½-5	NF-2-V1 <sup>6</sup> NF-4-V2 <sup>6</sup> NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-2-S1 NF-4-S2 NF-5-S2 NF-5-S2	1235-141 19000-4 19000-3 19000-3	NF-2-I NF-4-IA NF-5-I		ND-4-PH ND-5-PH ND-5-PH
880 AWS	3½-4 4½-5 4½-5 5½-6 5½-6	NF-4-V1 <sup>6</sup> NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup> NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup>	NF-4-S1 NF-5-S1 NF-5-S1 NF-6-S3 NF-6-S3	19000-4 19000-2 19000-2 19000-1 19000-1	NF-4-I NF-5-I N.A. NF-6-I N.A.		ND-4-PH ND-5-PH ND-5-PH NF-6-PH NF-6-PH
1000 AWS, 1300 AWS 1600 AWS, 1800 AWS 1600BWS GD-2000	3¾-4 4½-5 4½-5 5½-6 5½-6 6½-6¾	NF-4-V1 <sup>6</sup> NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup> NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup> NF-7-V1 <sup>6</sup>	NF-4-S1 NF-5-S1 NF-5-S1 NF-6-S3 NF-6-S3 NF-7-S1	19000-4 19000-2 19000-2 19000-1 19000-1 1235-140	NF-4-I NF-5-I N.A. NF-6-I N.A. NF-7-I		ND-4-PH ND-5-PH ND-5-PH NF-6-PH NF-6-PH NF-7-PH
700D (Piston)		NF-6-V1 <sup>6</sup>	NF-6-S3	19000-4	NF-6-I		NF-6-PH
350 D, 350 DG		ND-4-V1 <sup>6</sup>	ND-4-S2	5710-33	NF-4-I	ND-4-C1	ND-4-PH
350 DWS		NF-5-V1 <sup>6</sup>	NF-5-S2	19000-3	NF-5-I		
500 DC, 600 D 700 DL, 700 DL		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> ND-6-V1 <sup>3</sup> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 ND-6-S6 N6A-DDB6 N6A-DDB6	5710-115 5710-115 5710-115 5710-115 5710-115	ND-6-I		ND-6-PH ND-6-PH ND-6-PH

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

Pump Model	Plunger Size	Valve Part #	Seat Part #	Spring Part #	Insert Part #	Cage Part #	Puller Part #
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### OILWELL

1700-P, 1400-P		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S2 ND-8-S2	5710-32 5710-32			ND-8-PH ND-8-PH
510-P, 6-P-LD		NF-3-V4 <sup>6</sup>	NF-3-S3	5710-32	NF-3-I		
6-P, 6-P-HD		NF-2-V3 <sup>6</sup>	NF-2-S10	5710-03	NF-2-IA		
1400-PT, 1700-PT A1400-PT, A1700-PT 1100-PT, 850-PT A1100-PT, A850-PT HD1700PT		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-115L 5710-115L <u>5710-115L</u> 5710-115 5710-115	<u>ND-7-I</u>		ND-7-PH ND-7-PH <u>ND-7-PH</u>
A600PT, A560-PT 350-PT		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> <u>ND-6-V1<sup>3</sup></u> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 <u>ND-6-S6</u> N6A-DDB6 N6A-DDB6	5710-115 5710-115 <u>5710-115</u> 5710-115 5710-115	<u>ND-6-I</u>		ND-6-PH ND-6-PH <u>ND-6-PH</u>
46P, 346P, 326P		NF-3-V3 <sup>6</sup>	NF-34-S3	5710-03	NF-3-I		
SA-625-5, SA-626-5 SA-630-5, SA-634-5		NF-2-V1 <sup>6</sup>	NF-2-S1		NF-2-I		
SA-640-5, SA-650		NF-4-V2 <sup>6</sup>	NF-4-S2	5710-38	NF-4-IA		ND-4-PH
SB-644-5, SA-644-5 SA-644-10, SA-650-5 SA-650-10, SB-650-5		NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-5-S2 NF-5-S2	19000-3 19000-3	NF-5-I		ND-5-PH ND-5-PH
S-610 Suction Discharge		NF-4-V3 <sup>6</sup> NF-3-V3 <sup>6</sup>	NF-4-S4 NF-3-S4		NF-4-I NF-3-I		
Super 48, S824, SA824 S856-6, SA-656-6		NF-7-V1 <sup>6</sup>	NF-7-S1	5710-115L	NF-7-I		NF-7-PH
48-P-HD, 58-P-D		NF-4-V2 <sup>6</sup>	NF-4-S13A	5710-03	NF-4-IA		ND-4-PH
S-830, SA-830, SA-830		NF-4-V2 <sup>6</sup>	NF-4-S13A	1235-137*	NF-4-IA		ND-4-PH

### OMEGA

1000-1300HP	4 - 4½	NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-5-S2 NF-5-S2	19000-3 19000-3	NF-5-I		ND-5-PH ND-5-PH
1000-1300HP	5 - 7½	NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup>	NF-6-S3 NF-6-S3	19000-4 19000-4	NF-6-I		NF-6-PH NF-6-PH
1300HP "MF" F.E. 1800HP "MF" F.E.	3¾-4 4½-5 4½-5 5½-6 5½-6 6½-6¾	NF-4-V1 <sup>6</sup> NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup> NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup> NF-7-V1 <sup>6</sup>	NF-4-S1 NF-5-S1 NF-5-S1 NF-6-S3 NF-6-S3 NF-7-S1	19000-4 19000-2 19000-2 19000-1 19000-1 1235-140	NF-4-I NF-5-I N.A. NF-6-I N.A. NF-7-I		ND-4-PH ND-5-PH ND-5-PH NF-6-PH NF-6-PH NF-7-PH
D-750 (Piston)		NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup>	NF-6-S3 NF-6-S3	19000-4 19000-4	NF-6-I		NF-6-PH NF-6-PH
D-750L (Piston)		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> <u>ND-6-V1<sup>3</sup></u> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 <u>ND-6-S6</u> N6A-DDB6 N6A-DDB6	5710-115 5710-115 <u>5710-115</u> 5710-115 5710-115	<u>ND-6-I</u>		ND-6-PH ND-6-PH <u>ND-6-PH</u>

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

\*Not Stocked

<b>Pump Model</b>	<b>Plunger Size</b>	<b>Valve Part #</b>	<b>Seat Part #</b>	<b>Spring Part #</b>	<b>Insert Part #</b>	<b>Cage Part #</b>	<b>Puller Part #</b>
<b>OPI</b>							
1000-1300WS	4 - 4½	NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-5-S2 NF-5-S2	19000-3 19000-3	NF-5-I		ND-5-PH ND-5-PH
1000-1300WS	5 - 7½	NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup>	NF-6-S3 NF-6-S3	19000-4 19000-4	NF-6-I		NF-6-PH NF-6-PH
350 AWS, 500 AWS	2¾-3 3½ - 4 4½-5 4½-5	NF-2-V1 <sup>6</sup> NF-4-V2 <sup>6</sup> NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-2-S1 NF-4-S2 NF-5-S2 NF-5-S2	1235-141 19000-4 19000-3 19000-3	NF-2-I NF-4-IA NF-5-I		ND-4-PH ND-5-PH ND-5-PH
880 AWS	3½-4 4½-5 4½-5 5½-6 5½-6	NF-4-V1 <sup>6</sup> NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup> NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup>	NF-4-S1 NF-5-S1 NF-5-S1 NF-6-S3 NF-6-S3	19000-4 19000-2 19000-2 19000-1 19000-1	NF-4-I NF-5-I N.A. NF-6-I N.A.		ND-4-PH ND-5-PH ND-5-PH NF-6-PH NF-6-PH
1000 AWS, 1300 AWS 1600 AWS, 1800 AWS 1600BWS GD-2000	3¾-4 4½-5 4½-5 5½-6 5½-6 6½-6¾	NF-4-V1 <sup>6</sup> NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup> NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup> NF-7-V1 <sup>6</sup>	NF-4-S1 NF-5-S1 NF-5-S1 NF-6-S3 NF-6-S3 NF-7-S1	19000-4 19000-2 19000-2 19000-1 19000-1 1235-140	NF-4-I NF-5-I N.A. NF-6-I N.A. NF-7-I		ND-4-PH ND-5-PH ND-5-PH NF-6-PH NF-6-PH NF-7-PH
700D (Piston)		NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup>	NF-6-S3 NF-6-S3	19000-4 19000-4	NF-6-I		NF-6-PH NF-6-PH
350 D, 350 DG		ND-4-V1 <sup>6</sup>	ND-4-S2	5710-33	NF-4-I	ND-4-C1	ND-4-PH
350 DWS		NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-5-S2 NF-5-S2	19000-3 19000-3	NF-5-I		ND-5-PH ND-5-PH
500 DC, 600 D 700 DL, 700 HDL		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> <u>ND-6-V1<sup>3</sup></u> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 <u>ND-6-S6</u> N6A-DDB6 N6A-DDB6	5710-115 5710-115 <u>5710-115</u> 5710-115 5710-115	ND-6-I		ND-6-PH ND-6-PH <u>ND-6-PH</u>
1000 HDL, 1300 HDL		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-115L 5710-115L <u>5710-115L</u> 5710-115 5710-115	ND-7-I		ND-7-PH ND-7-PH <u>ND-7-PH</u>
<b>PINION</b>							
RB5, RB6		NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-5-S2 NF-5-S2	19000-3 19000-3	NF-5-I		ND-5-PH ND-5-PH
<b>R&amp;R SMART PUMP</b>							
1650		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> <u>ND-6-V1<sup>3</sup></u> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S4 ND-6-S4 <u>ND-6-S4</u> N6A-DDB4 N6A-DDB4	5710-115 5710-115 <u>5710-115</u> 5710-115 5710-115	ND-6-I		ND-6-PH ND-6-PH <u>ND-6-PH</u>

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

<b>Pump Model</b>	<b>Plunger Size</b>	<b>Valve Part #</b>	<b>Seat Part #</b>	<b>Spring Part #</b>	<b>Insert Part #</b>	<b>Cage Part #</b>	<b>Puller Part #</b>
<b>SERVA</b>							
TBP 600	3½ - 4	NF-4-V2 <sup>6</sup>	NF-4-S2	19000-4	NF-4-IA		ND-4-PH
<b>SKYTOP BREWSTER</b>							
B-1000F, B-750F B-550F, B-500		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S2 ND-8-S2	5710-32 5710-32			ND-8-PH ND-8-PH
B-1300T, B-1600T		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> ND-7-V1 <sup>3</sup> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 ND-7-S1 N7-DDB1 N7-DDB1	5710-115L 5710-115L 5710-115L 5710-115 5710-115	ND-7-I		ND-7-PH ND-7-PH ND-7-PH
B-1000T, B-1100T		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> ND-6-V1 <sup>3</sup> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>4</sup>	ND-6-S6 ND-6-S6 ND-6-S6 N6A-DDB6 N6A-DDB6	5710-115 5710-115 5710-115 5710-115 5710-115	ND-6-I		ND-6-PH ND-6-PH ND-6-PH
<b>SOUTHWEST FLUID ENDS</b>							
Duplex Pump “IVP” Fluid End		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> ND-7-V1 <sup>3</sup> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 ND-7-S1 N7-DDB1 N7-DDB1	5710-32 5710-32 5710-32 5710-32 5710-32	ND-7-I		ND-7-PH ND-7-PH ND-7-PH
Triplex Pump 7500 Psi Fluid End		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> ND-6-V1 <sup>3</sup> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S4 ND-6-S4 ND-6-S4 N6A-DDB4 N6A-DDB4	5710-115 5710-115 5710-115 5710-115 5710-115	ND-6-I		ND-6-PH ND-6-PH ND-6-PH

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

Pump Model	Plunger Size	Valve Part #	Seat Part #	Spring Part #	Insert Part #	Cage Part #	Puller Part #
<b>SPM</b>							
TBH 175, -225, -350 TBH 550 TWS 250, TWS 400 TWS 500LW TWS 600, TWS 600S	1¾-3 3½ - 4½	NF-2-V1 <sup>6</sup> NF-4-V2 <sup>6</sup>	NF-2-S1 NF-4-S2	1235-141 19000-4	NF-2-I NF-4-IA		ND-4-PH
TWS 900 QWS 1000S	3½-4 4½-5 4½-5 5½-6 5½-6	NF-4-V1 <sup>6</sup> NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup> NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup>	NF-4-S1 NF-5-S1 NF-5-S1 NF-6-S3 NF-6-S3	19000-4 19000-2 19000-2 19000-1 19000-1	NF-4-I NF-5-I N.A. NF-6-I N.A.		ND-4-PH ND-5-PH ND-5-PH NF-6-PH NF-6-PH
TWS 1300, TWS 1600 TWS 1800 TWS 1600LW TWS 2250 QWS 2000, 2500LW QWS 2500, 2500 SD QWS 3500 TBH 1050 QBH 1575 TMP 1650	3¾-4 4½-5 4½-5 5½-6 5½-6 6½-6¾	NF-4-V1 <sup>6</sup> NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup> NF-6-V1 <sup>6</sup> NF-6-V1-C <sup>7</sup> NF-7-V1 <sup>6</sup>	NF-4-S1 NF-5-S1 NF-5-S1 NF-6-S3 NF-6-S3 NF-7-S1	19000-4 19000-2 19000-2 19000-1 19000-1 1235-140	NF-4-I NF-5-I N.A. NF-6-I N.A. NF-7-I		ND-4-PH ND-5-PH ND-5-PH NF-6-PH NF-6-PH NF-6-PH NF-7-PH

### TFI (TEXAS FIRST INDUSTRIAL)

F-1600, F-1300 BH-800II		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> ND-7-V1 <sup>3</sup> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 ND-7-S1 N7-DDB1 N7-DDB1	5710-115L 5710-115L <u>5710-115L</u> 5710-115 5710-115	<u>ND-7-I</u>		ND-7-PH ND-7-PH <u>ND-7-PH</u>
F-1000, F-800		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> ND-6-V1 <sup>3</sup> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 ND-6-S6 N6A-DDB6 N6A-DDB6	5710-115 5710-115 <u>5710-115</u> 5710-115 5710-115	<u>ND-6-I</u>		ND-6-PH ND-6-PH <u>ND-6-PH</u>
F-500		ND-5-V2 <sup>1</sup>	ND-5-S1	5710-30			ND-5-PH
ZB-300		ND-4-V1 <sup>6</sup>	NF-4-S5	5710-33 5710-78 <sup>#</sup>	NF-4-I		ND-4-PH
ZB-400II	4- 4½	NF-4-V2 <sup>6</sup>	NF-4-S2	19000-4	NF-4-IA		ND-4-PH
ZB-500							

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

<b>Pump Model</b>	<b>Plunger Size</b>	<b>Valve Part #</b>	<b>Seat Part #</b>	<b>Spring Part #</b>	<b>Insert Part #</b>	<b>Cage Part #</b>	<b>Puller Part #</b>
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### TSC

Work Force 2000		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S12 ND-7-S12 <u>ND-7-S12</u> N7-DDB12 N7-DDB12	5710-115L 5710-115L <u>5710-115L</u> 5710-115 5710-115	<u>ND-7-I</u>		ND-7-PH ND-7-PH <u>ND-7-PH</u>
Work Force Univ. 1600 Work Force Univ. 1300 Work Force 1200 Work Force 1000 Work Force 700 Work Force 660		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-115L 5710-115L <u>5710-115L</u> 5710-115 5710-115	<u>ND-7-I</u>		ND-7-PH ND-7-PH <u>ND-7-PH</u>
Work Force 360		ND-4-V1 <sup>6</sup>	NF-4-S5	5710-33 5710-78 <sup>#</sup>	NF-4-I		ND-4-PH

### TULSA RIG IRON

TT-250 <u>2 Inch Seat ID</u> 2.375 Inch Seat ID		<u>NF-2-V1<sup>6</sup></u> NF-2-V3 <sup>6#</sup>	<u>NF-2-S5</u> NF-2-S9 <sup>#</sup>	<u>5710-03</u> 5710-03	<u>NF-2-I</u> NF-2-IA	<u>NF-2-C1</u> NF-2-C1	
TT-350		ND-4-V1 <sup>6</sup>	NF-4-S5	5710-33 5710-78 <sup>#</sup>	NF-4-I		ND-4-PH

### WEATHERFORD (IRON MAN)

MP-13 (F-1300) MP-16 (F-1600)		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-115L 5710-115L <u>5710-115L</u> 5710-115 5710-115	<u>ND-7-I</u>		ND-7-PH ND-7-PH <u>ND-7-PH</u>
MP-8 (F-800) MP-10 (F-1000)		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> <u>ND-6-V1<sup>3</sup></u> ND-6-EH <sup>4</sup> ND-6-EH-H <sup>5</sup>	ND-6-S6 ND-6-S6 <u>ND-6-S6</u> N6A-DDB6 N6A-DDB6	5710-115 5710-115 <u>5710-115</u> 5710-115 5710-115	<u>ND-6-I</u>		ND-6-PH ND-6-PH <u>ND-6-PH</u>
MP-5 (F-500)		ND-5-V2 <sup>1</sup>	ND-5-S1	5710-30			ND-5-PH

### WESTERN

RB 80, RB 81		NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-5-S2 NF-5-S2	19000-3 19000-3	NF-5-I		ND-5-PH ND-5-PH
Roughrider 500 "Mono Block" F.E.	3½ - 4½	NF-4-V2 <sup>6</sup>	NF-4-S2	19000-4	NF-4-IA		ND-4-PH
Roughrider 500 "Segmented" F.E. Suction Discharge	4½ 4½	NF-4-V3 <sup>6</sup> NF-3-V3 <sup>6</sup>	NF-4-S4 NF-3-S4		NF-4-I NF-3-I		
Roughrider 1000 "Mono Block" F.E.	4 4½ - 5 4½ - 5	NF-4-V3 <sup>6</sup> NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-3-S3 NF-5-S2 NF-5-S2		NF-3-I NF-5-I		ND-5-PH ND-5-PH
Roughrider 1500 "Mono Block" F.E.	4 5 5	NF-4-V3 <sup>6</sup> NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-3-S3 NF-5-S1 NF-5-S1		NF-3-I NF-5-I		ND-5-PH ND-5-PH

Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1

Pump Model	Plunger Size	Valve Part #	Seat Part #	Spring Part #	Insert Part #	Cage Part #	Puller Part #
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### WHEATLEY

FIG. 6070		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-32 5710-32 <u>5710-32</u> 5710-32 5710-32			ND-7-PH ND-7-PH <u>ND-7-PH</u>
3F-450, 4F-750		NF-5-V1 <sup>6</sup> NF-5-V1-C <sup>7</sup>	NF-5-S2 NF-5-S2	19000-3 19000-3	NF-5-I		ND-5-PH ND-5-PH
BJ-8		NF-4-V1 <sup>6</sup>	NF-4-S10	1235-84	NF-4-I		ND-4-PH
5830, 5850, 6050-A, 2050-A, 1550-A, 7036, 1336, 1036		NF-4-V5 <sup>6</sup>	ND-4-S17	5710-17	NF-4-I		ND-4-PH

### WILSON

600, 900, Giant		ND-8-V2 <sup>1</sup>	ND-8-S2	5710-32			ND-8-PH
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### WIRTH

TPK 800, -1000 Hydraulic Seat Removal		ND-6-V2 <sup>1</sup> ND-6-V2H <sup>2</sup> ND-6-V1 <sup>3</sup>	ND-6-S7 ND-6-S7 ND-6-S7	5710-115 5710-115 5710-115		ND-6-I	
TPK 1300, -1600, -2000, TPK 2200 Hydraulic Seat Removal		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> ND-7-V1 <sup>3</sup>	ND-7-S16 ND-7-S16 ND-7-S16	5710-115L 5710-115L 5710-115L		ND-7-I	
TPK 800, 1000 Mechanical Seat Removal		ND-7-V2 <sup>1</sup> ND-7-V2H <sup>2</sup> <u>ND-7-V1<sup>3</sup></u> ND-7-EEF <sup>4</sup> ND-7-EEF-H <sup>5</sup>	ND-7-S1 ND-7-S1 <u>ND-7-S1</u> N7-DDB1 N7-DDB1	5710-115L 5710-115L <u>5710-115L</u> 5710-115 5710-115		<u>ND-7-I</u>	ND-7-PH ND-7-PH <u>ND-7-PH</u>
TPK 1300, -1600, -2000 TPK 2200 Mechanical Seat Removal		ND-8-V2 <sup>1</sup> ND-8-V2H <sup>2</sup>	ND-8-S2 ND-8-S2	5710-115L 5710-115L			ND-8-PH ND-8-PH

### WORTHINGTON

KKS-1, KLS-1, KMS-1		NF-4-V7 <sup>6</sup>	NF-4-S7	5710-3	NF-4-IA		ND-4-PH
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Superscript Numbers or Symbols after each part number are keyed to descriptions on page 1