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Retrievable Service Packers

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4-1/2" & 5" CST PACKER

COMPLETE ASSEMBLY, 4-1/2"
COMPLETE ASSEMBLY, 5"

43CST.10XX
43CST.10XX

CASING RANGE: A: 9.5 - 13.5#
B: 15.0 - 18.0#
C: 11.5 - 15.0#

STANDARD PACKING ELEMENT SYSTEM IS 90-70-90 WITH LEFT HAND JAY CONTROL MECHANISM.
PLEASE SPECIFY ANY OTHER DUROMETER OR JAY CONTROL MECHANISM AT TIME OF ORDER.

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	TOP SUB	43CST04	1
2	SEAL	43CST03	1
3	SEAL RETAINER	43CST02	1
4	MANDREL	43CST01	1
5	RECEPTACLE, 9.5 - 13.5#	43CST08	1
	RECEPTACLE, 11.5 - 18.0#	43CST08-B	1
6	O-RING	050-90-233	1
7	BALANCE SLEEVE	43CST05	1
8	O-RING	050-90-234	1
9	BALANCE SLEEVE HOUSING	43CST06	1
10	STRAP RETAINER, 9.5 - 13.5#	43CST07	1
	STRAP RETAINER, 11.5 - 18.0#	43CST07-B	1
11	PISTON RETAINER	43CST09	4
12	FLAT HEAD SCREW, 10-32 X 3/8	005-02-006	12
13	PISTON, 9.5 - 13.5#	43R10-A	8
	PISTON, 15.0 - 18.0#	43R10-B	8
	PISTON, 11.5 - 15.0#	43R10-C	8
14	O-RING	050-90-125	8
15	GAGE RING, 9.5 - 13.5#	43CST10-A	1
	GAGE RING, 15.0 - 18.0#	43CST10-B	1
	GAGE RING, 11.5 - 15.0#	43CST10-C	1
16	PACKING ELEMENT, END		
	90 DUROMETER	43FB22-A90	2
	90 DUROMETER	43FB22-B90	2
	90 DUROMETER	43FB22-C90	2
17	PACKING ELEMENT SPACER, 9.5 - 13.5#	43FB23-A	2
	PACKING ELEMENT SPACER, 15.0 - 18.0#	43FB23-B	2
	PACKING ELEMENT SPACER, 11.5 - 15.0#	43FB23-C	2
18	PACKING ELEMENT, CENTER		
	70 DUROMETER	43FB24-A70	1
	70 DUROMETER	43FB24-B70	1
	70 DUROMETER	43FB24-C70	1
19	O-RING	050-90-231	1
20	PISTON SPRING	43R11	16
21	GUIDE RING, 9.5 - 13.5#	43CST12-A	1
	GUIDE RING, 15.0 - 18.0#	43CST12-B	1
	GUIDE RING, 11.5 - 15.0#	43CST12-C	1

Wholesale Product List

22	ELEMENT SUPPORT SLEEVE	43CST11	1
23	CONE	43CST13	1
24	SLIP, CARBIDE, 9.5 - 13.5#	43CST22	4
	SLIP, CARBIDE, 11.5 - 18.0#	43CST22-B	4
25	SLIP SPRING	43CST23	8
26	BUTTON HEAD SCREW, 10-24 X 3/8	HM1006	4
27	CAGE, 9.5 - 13.5#	43CST14	1
	CAGE, 11.5 - 18.0#	43CST14-B	1
28	SLIP SUPPORT SLEEVE	43CST15	1
29	DRAG BLOCK HOUSING	43CST16	1
30	SOC. SET SCREW, 1/4-20 X 5/16	HA1020	3
31	SOC. CAP SCREW, 1/4-20 X 1/4	HC1000	3
32	DRAG BLOCK, CARBIDE, 9.5 - 13.5#	PDB450C	6
	DRAG BLOCK, CARBIDE, 11.5 - 18.0#	PDB570C	6
33	DRAG BLOCK SPRING	43MST21	30
34	SOC. SET SCREW, 5/16-18 X 3/8	003-C5-006	3
35	JAY ASSEMBLY	43CST27	1
	JAY ASSEMBLY, RIGHT HAND	43CST27R	1
	JAY ASSEMBLY, 3/4 MANUAL LEFT HAND	43CST27K	1
	JAY ASSEMBLY, AUTO	43CST27AUTO	1
36	BOTTOM SUB	43CST24	1

5-1/2" CST PACKER

COMPLETE ASSEMBLY

45CST.10XX

CASING RANGE: A2: 20.0 - 23.0#

A4: 15.5 - 20.0#

B: 13.0 - 15.5#

STANDARD PACKING ELEMENT SYSTEM IS 90-70-90 WITH LEFT HAND JAY CONTROL MECHANISM.

PLEASE SPECIFY ANY OTHER DUROMETER OR JAY CONTROL MECHANISM AT TIME OF ORDER.

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	TOP SUB	45CST04	1
2	SEAL	45CST03	1
3	SEAL RETAINER	45CST02	1
4	MANDREL	45CST01	1
5	RECEPTACLE	45CST08	1
6	O-RING	050-90-236	1
7	BALANCE SLEEVE	45CST05	1
8	O-RING	050-90-238	1
9	BALANCE SLEEVE HOUSING	45CST06	1
10	STRAP RETAINER	45CST07	1
11	PISTON RETAINER	45CST09	3
12	FLAT HEAD SCREW, 5/16-18 X 5/8	005-C5-010	9
13	PISTON, 15.5 - 23.0#	45R10-A	6
	PISTON, 13.0 - 15.5#	45R10-B	6
14	O-RING	050-90-224	6
15	GAGE RING, 20.0 - 23.0#	45CST10-A2	1
	GAGE RING, 15.5 - 20.0#	45CST10-A4	1
	GAGE RING, 13.0 - 15.5#	45CST10-B	1
16	PACKING ELEMENT, END		
	90 DUROMETER	45FB22-A90	2
	90 DUROMETER	45FB22-B90	2
17	PACKING ELEMENT SPACER, 15.5 - 23.0#	45FB23-A	2
	PACKING ELEMENT SPACER, 13.0 - 15.5#	45FB23-B	2
18	PACKING ELEMENT, CENTER		
	70 DUROMETER	45FB24-A70	1
	70 DUROMETER	45FB24-B70	1
19	O-RING	050-90-233	1
20	PISTON SPRING	45R11	12
21	GUIDE RING, 20.0 - 23.0#	45CST12-A2	1
	GUIDE RING, 15.5 - 20.0#	45CST12-A4	1
	GUIDE RING, 13.0 - 15.5#	45CST12-B	1
22	ELEMENT SUPPORT SLEEVE	45CST11	1
23	CONE	45CST13	1
24	SLIP, CARBIDE	45CST22-A	4
25	SLIP SPRING	45CST23	12
26	BUTTON HEAD SCREW, 10-24 X 3/8	HM1006	4

Wholesale Product List

27	CAGE	45CST14	1
28	SLIP SUPPORT SLEEVE	45CST15	1
29	DRAG BLOCK HOUSING	45CST16	1
30	SOC. SET SCREW, 1/4-20 X 3/8	003-C4-006	3
31	SOC. CAP SCREW, 1/4-20 X 1/4	HC1000	3
32	DRAG BLOCK, CARBIDE, 15.5 - 23.0#	PDB550C	6
	DRAG BLOCK, CARBIDE, 13.0 - 15.5#	PDB560C	6
33	DRAG BLOCK SPRING	43MST21	30
34	SOC. SET SCREW, 5/16-18 X 3/8	003-C5-006	3
35	JAY ASSEMBLY	45CST27	1
	JAY ASSEMBLY, RIGHT HAND	45CST27R	1
	JAY ASSEMBLY, 3/4 MANUAL LEFT HAND	45CST27K	1
	JAY ASSEMBLY, AUTO	45CST27AUTO	1
36	BOTTOM SUB	45CST24	1

7" CST PACKER

COMPLETE ASSEMBLY

47CST.10XX

CASING RANGE: A2: 38.0#
 A4: 32.0 - 35.0#
 B2: 26.0 - 29.0#
 B4: 23.0 - 26.0#
 C2: 17.0 - 20.0#

STANDARD PACKING ELEMENT SYSTEM IS 90-70-90 WITH LEFT HAND JAY CONTROL MECHANISM.
 PLEASE SPECIFY ANY OTHER DUROMETER OR JAY CONTROL MECHANISM AT TIME OF ORDER.

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	TOP SUB	47CST04	1
2	SEAL	47CST03	1
3	SEAL RETAINER	47CST02	1
4	MANDREL	47CST01	1
5	RECEPTACLE	47CST08	1
6	O-RING	050-90-240	1
7	BALANCE SLEEVE	47CST05	1
8	O-RING	050-90-348	1
9	BALANCE SLEEVE HOUSING	47CST06	1
10	STRAP RETAINER	47CST07	1
11	PISTON RETAINER	47CST09	3
12	FLAT HEAD SCREW, 5/16-18 X 5/8	005-C5-010	9
13	PISTON, 32 - 38.0#	47R10-A	6
	PISTON, 23.0 - 29.0#	47R10-B	6
	PISTON, 17.0 - 20.0#	47R10-C	6
14	O-RING	050-90-230	6
15	GAGE RING, 38.0#	47CST10-A2	1
	GAGE RING, 32.0 - 35.0#	47CST10-A4	1
	GAGE RING, 26.0 - 29.0#	47CST10-B2	1
	GAGE RING, 23.0 - 26.0#	47CST10-B4	1
	GAGE RING, 17.0 - 20.0#	47CST10-C2	1
16	PACKING ELEMENT, END		
	90 DUROMETER	47FB22-A90	2
	90 DUROMETER	47FB22-B90	2
	90 DUROMETER	47FB22-C90	2
17	PACKING ELEMENT SPACER, 32 - 38.0#	47FB23-A	2
	PACKING ELEMENT SPACER, 23.0 - 29.0#	47FB23-B	2
	PACKING ELEMENT SPACER, 17.0 - 20.0#	47FB23-C	2
18	PACKING ELEMENT, CENTER		
	70 DUROMETER	47FB24-A70	1
	70 DUROMETER	47FB24-B70	1
	70 DUROMETER	47FB24-C70	1
19	O-RING	050-90-241	1
20	PISTON SPRING	47R11	12
21	GUIDE RING, 38.0#	47SH08-A2	1
	GUIDE RING, 32.0 - 35.0#	47SH08-A4	1

Wholesale Product List

	GUIDE RING, 26.0 - 29.0#	47SH08-B2	1
	GUIDE RING, 23.0 - 26.0#	47SH08-B4	1
	GUIDE RING, 17.0 - 20.0#	47SH08-C2	1
22	ELEMENT SUPPORT SLEEVE	47CST11	1
23	CONE	47CST13	1
24	SLIP, CARBIDE	47CST22-A	4
25	SLIP SPRING	47CST23	12
26	BUTTON HEAD SCREW, 10-24 X 3/8	HM1006	4
27	CAGE	47CST14	1
28	SLIP SUPPORT SLEEVE	47CST15	1
29	DRAG BLOCK HOUSING	47CST16	1
30	SOC. SET SCREW, 5/16-18 X 1/2	HA1006	3
31	SOC. CAP SCREW, 5/16-18 X 1/2	HC1004	3
32	DRAG BLOCK, CARBIDE, 32 - 38.0#	PDB700C	6
	DRAG BLOCK, CARBIDE, 23.0 - 29.0#, 17.0 - 20.0#	PDB900C	6
33	DRAG BLOCK SPRING	47MST21	48
34	DRAG BLOCK GUIDE	47PST28	2
35	SOC. SET SCREW, 5/16-18 X 3/8	003-C5-006	3
36	JAY ASSEMBLY	47CST27	1
	JAY ASSEMBLY, 3/4 MANUAL LEFT HAND	47CST27K	1
37	BOTTOM SUB	47CST24	1
	BOTTOM SUB, 3/4 MANUAL LEFT HAND	47CST24K	1

7-5/8" CST PACKER

COMPLETE ASSEMBLY

47CST.10XX

CASING RANGE: C4: 33.7 - 39.0#

D2: 24.0 - 29.7#

D4: 20.0 - 24.0#

STANDARD PACKING ELEMENT SYSTEM IS 90-70-90 WITH LEFT HAND JAY CONTROL MECHANISM.

PLEASE SPECIFY ANY OTHER DUROMETER OR JAY CONTROL MECHANISM AT TIME OF ORDER.

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	TOP SUB	47CST04	1
2	SEAL	47CST03	1
3	SEAL RETAINER	47CST02	1
4	MANDREL	47CST01	1
5	RECEPTACLE	48CST08	1
6	O-RING	050-90-240	1
7	BALANCE SLEEVE	47CST05	1
8	O-RING	050-90-348	1
9	BALANCE SLEEVE HOUSING	47CST06	1
10	STRAP RETAINER	48CST07	1
11	PISTON RETAINER	47CST09	3
12	FLAT HEAD SCREW, 5/16-18 X 5/8	005-C5-010	9
13	PISTON	47R10-C	6
14	O-RING	050-90-230	6
15	GAGE RING, 33.7 - 39.0#	48CST10-C4	1
	GAGE RING, 24.0 - 29.7#	48CST10-D2	1
	GAGE RING, 20.0 - 24.0#	48CST10-D4	1
16	PACKING ELEMENT, END		
	90 DUROMETER	47FB22-C90	2
	90 DUROMETER	47FB22-D90	2
17	PACKING ELEMENT SPACER, 33.7 - 29#	47FB23-C	2
	PACKING ELEMENT SPACER, 20 - 29.7#	47FB23-D	2
18	PACKING ELEMENT, CENTER		
	70 DUROMETER	47FB24-C70	1
	70 DUROMETER	47FB24-D70	1
19	O-RING	050-90-241	1
20	PISTON SPRING	45AD06	12
21	GUIDE RING, 33.7 - 39.0#	47SH08-C4	1
	GUIDE RING, 24.0 - 29.7#	47SH08-D2	1
	GUIDE RING, 20.0 - 24.0#	47SH08-D4	1
22	ELEMENT SUPPORT SLEEVE	47CST11	1
23	CONE	47CST13	1
24	SLIP, CARBIDE	47CST22-C	4
25	SLIP SPRING	47CST23	12
26	BUTTON HEAD SCREW, 10-24 X 3/8	HM1006	4
27	CAGE	48CST14	1

Wholesale Product List

28	SLIP SUPPORT SLEEVE	47CST15	1
29	DRAG BLOCK HOUSING	48CST16	1
30	SOC. SET SCREW, 5/16-18 X 1/2	HA1006	3
31	SOC. CAP SCREW, 5/16-18 X 1/2	HC1004	3
32	DRAG BLOCK, CARBIDE	PDB800C	6
33	DRAG BLOCK SPRING	47MST21	48
34	DRAG BLOCK GUIDE	47PST28	2
35	SOC. SET SCREW, 5/16-18 X 3/8	003-C5-006	3
36	JAY ASSEMBLY	47CST27	1
	JAY ASSEMBLY, 3/4 MANUAL LEFT HAND	47CST27K	1
37	BOTTOM SUB	47CST24	1
	BOTTOM SUB, 3/4 MANUAL LEFT HAND	47CST24K	1

CST PACKER ELASTOMER REDRESS KIT

4-1/2" CST ELASTOMER REDRESS KIT
5" CST ELASTOMER REDRESS KIT
5-1/2" CST ELASTOMER REDRESS KIT
7" CST ELASTOMER REDRESS KIT
7-5/8" CST ELASTOMER REDRESS KIT

43CST.K0XX
43CST.K0XX
45CST.K0XX
47CST.K0XX
47CST.K0XX

5" NIMBUS HURRICANE PACKER

COMPLETE ASSEMBLY

43CSTH.1001

CASING RANGE: B: 15.0 - 18.0#

STANDARD PACKING ELEMENT SYSTEM IS 90-70-90 DUROMETER.
PLEASE SPECIFY ANY OTHER DUROMETER AT TIME OF ORDER.

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	TOP SUB, 2-3/8 I.F.	43CSTH01-23	1
2	O-RING	050-90-226	2
3	KEY, 1/4 x 1/4 x 2 3/4	hk1002	12
4	KEY RETAINER	43CSTH03	2
5	MANDREL	43CSTH02	1
6	SEAL RETAINER	43CSTH07	1
7	SEAL STOP	43CSTH06	1 SET
8	SEAL BACK UP RING	43CSTH05	1
9	SEAL HOUSING	43CSTH08	1
10	SEAL	43CST03	1
11	O-RING	050-90-234	1
12	balance sleeve housing	43CST06	1
13	BALANCE SLEEVE	43CST05	1
14	O-RING	050-90-233	1
15	STRAP RETAINER	43CST07-B	1
16	FLAT HEAD SCREW, 10-32 X 3/8	005-02-006	12
17	O-RING	050-90-125	8
18	PISTON SPRING	43R11	16
19	PISTON, 15.0 - 18.0#	43R10-B	8
20	PISTON RETAINER	43CST09	4
21	RECEPTACLE	43CST08-B	1
22	O-RING	050-90-231	1
23	GAGE RING	43CST10-B	1
24	PACKING ELEMENT, END 90 DUROMETER	43FB22-B90	2
25	PACKING ELEMENT SPACER	43FB23-B	2
26	PACKING ELEMENT, CENTER 70 DUROMETER	43FB24-B70	1
27	GUIDE RING	43CST12-B	1
28	ELEMENT SUPPORT SLEEVE	43CST11	1
29	CONE	43CST13	1
30	CAGE	43CST14-B	1
31	SLIP SUPPORT SLEEVE	43CST15	1
32	SLIP, CARBIDE	43CST22-B	4
33	BUTTON HEAD SCREW, 10-24 X 3/8	HM1006	4
34	SLIP SPRING	43CST23	8
35	SOC. SET SCREW, 1/4-20 X 1/4	HA1007	3
36	SOC. CAP SCREW, 1/4-20 X 1/4	HC1000	6

Wholesale Product List

37	DRAG BLOCK, CARBIDE	PDB560C	6
38	DRAG BLOCK SPRINGS	43MST21	18
39	DRAG BLOCK HOUSING	43CST16	1
40	SOC. SET SCREW, 5/16-18 X 3/8	003-C5-006	3
41	GARTER SPRINGS	43PST27	2
42	CONTROL SEGMENT	43CST18	1
43	CONTROL SEGMENT HOUSING	43CSTH25	1
44	CLUTCH	43CSTH28	1
45	CLUTCH RETAINER	43CSTH31	1
46	SOC. SET SCREW, 1/4-20 X 3/8	003-C4-006	6
47	BOTTOM SUB	43CSTH29-23	1
48	CONTROL SEGMENT GUIDE	43CST19	1

9-5/8" NIMBUS HURRICANE PACKER

COMPLETE ASSEMBLY

51CSTH.10XX

CASING RANGE: A2: 47.0 - 53.5#

A4: 40.0 - 47.0#

B: 29.3 - 36.0#

STANDARD PACKING ELEMENT SYSTEM IS 80-70-80.
PLEASE SPECIFY ANY OTHER DUROMETER AT TIME OF ORDER.

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	TOP SUB, 4-1/2 I.F.	51CSTH01-45	1
2	O-RING	050-90-344	2
3	KEY, 1/2 x 1/2 x 2-1/2	HK1003A	12
4	KEY RETAINER	51CSTH03	3
5	MANDREL	51CSTH02	1
6	SEAL RETAINER	51CSTH07	1
7	SEAL STOP	51CSTH06	1 SET
8	SEAL BACK UP RING	51CSTH05	1
9	SEAL HOUSING	51CSTH08	1
10	SEAL	51CSTH04	1
11	O-RING	050-90-440	1
12	seal sub	51CSTH09	1
13	BALANCE SLEEVE	51CSTH10	1
14	O-RING	050-90-434	1
15	STRAP RETAINER	51CSTH11	1
16	FLAT HEAD SCREW, 5/16-18 X 3/4	HB1004	18
17	O-RING	050-90-238	12
18	PISTON SPRING	51R11	36
19	PISTON	51R10	12
20	PISTON RETAINER	51CSTH12	6
21	RECEPTACLE	51CSTH13	1
22	O-RING	050-90-429	1
23	GAGE RING, 47.0 - 53.5#	51CSTH14-A2	1
	GAGE RING, 40.0 - 47.0#	51CSTH14-A4	1
	GAGE RING, 29.3 - 36.0#	51CSTH14-B	1
24	PACKING ELEMENT, END		
	80 DUROMETER	51PST33-A80	2
	80 DUROMETER	51PST33-B80	2
25	PACKING ELEMENT SPACER	51PST31-A	2
26	PACKING ELEMENT, CENTER		
	70 DUROMETER	51PST33-A70	1
	70 DUROMETER	51PST33-B70	1
27	GUIDE RING, 47.0 - 53.5#	51CSTH17-A2	1
	GUIDE RING, 40.0 - 47.0#	51CSTH17-A4	1
	GUIDE RING, 29.3 - 36.0#	51CSTH17-B	1
28	ELEMENT SUPPORT SLEEVE	51csth15	1
29	CONE	51CSTH18	1
30	CAGE	51CSTH19	1

Wholesale Product List

31	SLIP SUPPORT	51CSTH22	1
32	SLIP, CARBIDE	51CSTH20	5
33	BUTTON HEAD SCREW, 10-24 X 3/8	HM1006	12
34	SLIP SPRING	47CST23	30
35	SOC. SET SCREW, 3/8-16 X 1/2	HA1014	5
36	SOC. CAP SCREW, 3/8-16 X 3/4	HC1025	3
37	DRAG BLOCK, CARBIDE, 40 - 53.5#	PDB800C	8
	DRAG BLOCK, CARBIDE, 29.3 - 36.0#	PDB900C	8
38	DRAG BLOCK SPRINGS	47MST21	64
39	DRAG BLOCK HOUSING	51CSTH23	1
40	drag block guide	51pst28	1
41	GARTER SPRINGS	47PST27	6
42	CONTROL SEGMENT	51CSTH27	1
43	SOC. CAP SCREW, 1/2-13 X 3/4	HC1026	4
44	CONTROL SEGMENT HOUSING	51CSTH25	1
45	CLUTCH	51CSTH28	1
46	BOTTOM SUB	51CSTH29-45	1
47	CONTROL SEGMENT GUIDE	51CSTH26	1

13-3/8" NIMBUS HURRICANE PACKER

COMPLETE ASSEMBLY

55CSTH.10XX

CASING RANGE: A: 77.0 - 102.0#

B: 48.0 - 72.0#

STANDARD PACKING ELEMENT SYSTEM IS 80-70-80.
PLEASE SPECIFY ANY OTHER DUROMETER AT TIME OF ORDER.

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	TOP SUB, 4-1/2 I.F.	55CSTH01-45	1
2	O-RING	050-90-438	2
3	KEY, 1/2 x 1/2 x 2-1/2	HK1003A	12
4	KEY RETAINER	55CSTH03	3
5	MANDREL	55CSTH02	1
6	SEAL RETAINER	55CSTH07	1
7	SEAL STOP	55CSTH06	1 SET
8	SEAL BACK UP RING	55CSTH05	1
9	SEAL HOUSING	55CSTH08	1
10	SEAL	55CSTH04	1
11	O-RING	050-90-446	1
12	seal sub	55CSTH09	1
13	BALANCE SLEEVE	55CSTH10	1
14	O-RING	050-90-447	1
15	STRAP RETAINER	55CSTH11	1
16	FLAT HEAD SET SCREW, 3/8-16 X 1	HB1006	18
17	O-RING	050-90-238	12
18	PISTON SPRING	49AD06	36
19	PISTON	55CSTH30	12
20	PISTON RETAINER	55CSTH12	6
21	RECEPTACLE	55CSTH13	1
22	O-RING	050-90-444	1
23	GAGE RING, 77.0 - 102.0#	55CSTH14-A	1
	GAGE RING, 48.0 - 72.0#	55CSTH14-B	1
24	PACKING ELEMENT, END		
	80 DUROMETER	55PST33-A80	2
	80 DUROMETER	55PST33-B80	2
25	PACKING ELEMENT SPACER	55CSTH16-A	2
26	PACKING ELEMENT, CENTER		
	70 DUROMETER	55PST33-A70	1
	70 DUROMETER	55PST33-B70	1
27	GUIDE RING, 77 - 102#	55CSTH17-A	1
	GUIDE RING, 48.0 - 72.0#	55CSTH17-B	1
28	ELEMENT SUPPORT SLEEVE	55CSTH15	1
29	CONE	55CSTH18	1
30	CAGE	55CSTH19	1
31	SLIP SUPPORT	55CSTH22	1
32	SLIP, CARBIDE	55CSTH20	6
33	BUTTON HEAD SCREW, 10-24 X 3/8	HM1006	12

Wholesale Product List

34	SLIP SPRING	55CSTH21	48
35	SOC. SET SCREW, 3/8-16 X 3/4	HA1031	3
36	SOC. CAP SCREW, 3/8-16 X 3/4	HC1025	3
37	DRAG BLOCK, CARBIDE, 77 - 102#	PDB800C	12
	DRAG BLOCK, CARBIDE, 48.0 - 72.0#	PDB900C	12
38	DRAG BLOCK SPRINGS	47MST21	96
39	DRAG BLOCK HOUSING	55CSTH23	1
40	drag block guide	55CSTH24	1
41	SOC. SET SCREW, 3/8-16 X 1/2	HA1014	2
42	GARTER SPRINGS	47PST27	6
43	CONTROL SEGMENT	55CSTH27	1
44	SOC. CAP SCREW, 1/2-13 X 3/4	HC1026	4
45	CONTROL SEGMENT HOUSING	55CSTH25	1
46	CLUTCH	55CSTH28	1
47	BOTTOM SUB	55CSTH29-45	1
48	CONTROL SEGMENT GUIDE	55CSTH26	1

NIMBUS HURRICANE PACKER ELASTOMER REDRESS KIT

4-1/2" NIMBUS HURRICANE ELASTOMER REDRESS KIT
9-5/8" NIMBUS HURRICANE ELASTOMER REDRESS KIT
13-3/8" NIMBUS HURRICANE ELASTOMER REDRESS KIT

43CSTH.KOXX
51CSTH.KOXX
55CSTH.KOXX

4" X 1.900" H/D COMPRESSION SET PACKER

COMPLETE ASSEMBLY

613-40-000

CASING RANGE: 9.5 - 11.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 1.900 EU 10RD	21BC-03	1
2	HOLD DOWN CAP	613-40-370	1
3	HOLD DOWN BODY	613-40-320	1
4	O-RING	050-90-329	1
5	O-RING	050-90-229	1
6	O-RING	050-90-230	1
7	HOLD DOWN STRAP	613-40-360	3
8	STRAP RETAINER	613-40-650	2
9	HOLD DOWN SLIP	613-40-140	9
10	SLIP LEAF SPRING	071-35-900	45
11	SOC. CAP SCREW, 10-24 X 3/8	005-03-006	6
12	MANDREL	613-40-210	1
13	VALVE BODY	613-40-350	1
14	COMPENSATING PISTON	613-40-710	1
15	O-RING	050-90-230	1
16	O-RING	050-90-228	1
17	CENTRAL BODY	613-40-380	1
18	COMPENSATING MANDREL	613-40-240	1
19	O-RING	050-90-121	9
20	O-RING	050-90-140	1
21	SEAL RECEPTACLE	613-40-730	1
22	SEAL RETAINER	613-40-530	1
23	SEAL	610-40-520	1
24	PACKING ELEMENT, 90 DURO, 9.5 - 11.0#	602-40-513	2
25	PACKING ELEMENT, 70 DURO, 9.5 - 11.0#	602-40-511	1
26	RUBBER SPACER, 9.5 - 11.0#	602-40-840	2
27	RUBBER RETAINER, 9.5 - 11.0#	602-40-850	1
28	RUBBER MANDREL ASSEMBLY	600-40-220	1
29	RUBBER MANDREL CAP	600-40-230	1
30	CONTROL BODY ASSEMBLY	610-40-330	1
31	DRAG BLOCK RETAINER	600-40-910	1
32	DRAG BLOCK, DB 450	090-45-900	4
33	DRAG BLOCK LEAF SPRING, DB 450 - DB 590	091-00-900	12
34	LOWER CONE	600-40-420	1
35	LOWER SLIP	600-40-130X	4
36	SLIP COIL SPRING	070-45-900	4
37	J-BODY ASSEMBLY	613-40-340	1
38	BOTTOM SUB	610-40-630	1
39	SOC. SET SCREW, 1/4-20 X 1/4	003-C4-004	4
40	O-RING	050-90-138	1

4-1/2" X 2-3/8" H/D COMPRESSION SET PACKER

COMPLETE ASSEMBLY
COMPLETE ASSEMBLY, CARBIDE

613-45-000
613-45-0C1
CASING RANGE: 9.5 - 13.5#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-3/8 EU 8RD	613-45-610	1
2	INNER MANDREL	613-45-210	1
3	HYDRAULIC HOLD DOWN CAP	613-45-370	1
4	HYDRAULIC HOLD DOWN BODY	613-45-321	1
5	HOLD DOWN STRAP	613-45-360	4
6	STRAP RETAINER	613-45-650	1
7	WICKER BUTTON, 9.5 - 13.5#	613-45-140	8
8	CENTRAL BODY	613-45-381	1
9	COMPENSATING MANDREL	613-45-240	1
10	COMPENSATING PISTON	613-45-710	1
11	SEAL RECEPTACLE	613-45-730	1
12	SEAL RETAINER	613-45-530	1
13	SEAL	613-45-520	1
14	VALVE BODY	613-45-350	1
15	RUBBER MANDREL	613-45-220	1
16	PACKING ELEMENT, 90 DURO, 9.5 - 13.5#	602-45-513	2
17	PACKING ELEMENT, 70 DURO, 9.5 - 13.5#	602-45-511	1
18	RUBBER SPACER, 9.5 - 13.5#	611-45-840	2
19	RUBBER RETAINER, 9.5 - 13.5#	602-45-850	1
20	CONE	613-45-420	1
21	LOWER SLIP	600-45-135XX	4
22	CONTROL BODY ASSEMBLY	613-45-330	1
23	J-BODY ASSEMBLY	613-45-340	1
24	BOTTOM SUB, 2-3/8 EU 8RD	613-45-630	1
25	RUBBER MANDREL CAP	613-45-230	1
26	SOC. SET SCREW, 1/4-20 X 3/8	003-C4-006	4
27	SOC. CAP SCREW, 10-24 X 1/2	005-03-008	4
28	HOLD DOWN BUTTON SPRING	613-45-975	48
29	DRAG BLOCK LEAF SPRING, DB 450 - DB 590	091-00-900	20
30	DRAG BLOCK, DB 450	090-45-900	5
31	LOWER SLIP SPRING	071-45-901	4
32	O-RING	050-90-231	2
33	O-RING	050-90-230	1
34	O-RING	050-90-234	1
35	O-RING	050-90-232	1
36	O-RING	050-90-236	1
37	O-RING	050-90-235	1
38	O-RING	050-90-125	8
39	O-RING	050-90-333	1

5" X 2-3/8" H/D COMPRESSION SET PACKER

COMPLETE ASSEMBLY
COMPLETE ASSEMBLY, CARBIDE

613-50-000
613-50-0C+C5831
CASING RANGE: 11.5 - 18.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-3/8 EU 8RD	613-45-610	1
2	INNER MANDREL	613-45-210	1
3	HYDRAULIC HOLD DOWN CAP	613-50-370	1
4	HYDRAULIC HOLD DOWN BODY	613-50-321	1
5	HOLD DOWN STRAP	613-45-360	4
6	STRAP RETAINER, 11.5 - 18.0#	613-50-650	1
7	WICKER BUTTON, 11.5 - 18.0#	613-50-140	8
8	CENTRAL BODY	613-45-381	1
9	COMPENSATING MANDREL	613-45-240	1
10	COMPENSATING PISTON	613-45-710	1
11	SEAL RECEPTACLE	613-45-730	1
12	SEAL RETAINER	613-45-530	1
13	SEAL	613-45-520	1
14	VALVE BODY, 11.5 - 18.0#	613-50-350	1
15	RUBBER MANDREL	613-45-220	1
16	PACKING ELEMENT, 90 DURO, 11.5 - 15.0#	602-50-513	2
17	PACKING ELEMENT, 70 DURO, 11.5 - 15.0#	602-50-511	1
18	RUBBER SPACER, 11.5 - 15.0#	601-50-840	2
19	RUBBER RETAINER ASSEMBLY	602-50-850	1
20	CONE	613-45-420	1
21	LOWER SLIP	600-50-135XX	4
22	CONTROL BODY ASSEMBLY, 11.5 - 18.0#	613-50-330	1
23	J-BODY ASSEMBLY, 11.5 - 18.0#	613-50-340	1
24	BOTTOM SUB, 2-3/8 EU 8RD	613-45-630	1
25	RUBBER MANDREL CAP	613-45-230	1
26	SOC. SET SCREW, 1/4-20 X 3/8	003-C4-006	4
27	SOC. CAP SCREW, 10-24 X 1/2	005-03-008	4
28	HOLD DOWN BUTTON SPRING	613-45-975	48
29	DRAG BLOCK LEAF SPRING, DB 450 - DB 590	091-00-900	25
30	DRAG BLOCK, DB 550	090-55-900	5
31	LOWER SLIP SPRING	071-45-901	4
32	O-RING	050-90-231	2
33	O-RING	050-90-230	1
34	O-RING	050-90-234	1
35	O-RING	050-90-232	1
36	O-RING	050-90-236	1
37	O-RING	050-90-235	1
38	O-RING	050-90-125	8
39	O-RING	050-90-333	1

5" X 2-3/8" H/D COMPRESSION SET PACKER

COMPLETE ASSEMBLY

613-51-001

CASING RANGE: 18.0 - 20.8#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-3/8 EU 8RD	613-45-610	1
2	INNER MANDREL	613-45-210	1
3	HOLD DOWN CAP	613-51-370	1
4	HYDRAULIC HOLD DOWN BODY	613-50-321	1
5	HOLD DOWN STRAP	613-45-360	4
6	STRAP RETAINER	613-51-650	1
7	HYDRAULIC HOLD DOWN BUTTON	613-51-140	8
8	CENTRAL BODY	613-45-381	1
9	COMPENSATING MANDREL	613-45-240	1
10	COMPENSATING PISTON	613-45-710	1
11	SEAL RECEPTACLE	613-45-730	1
12	SEAL RETAINER	613-45-530	1
13	SEAL	613-45-520	1
14	VALVE BODY	613-51-350	1
15	RUBBER MANDREL	613-51-220	1
16	PACKING ELEMENT, 90 DURO, 18-20.8#	602-52-513	2
17	PACKING ELEMENT, 70 DURO, 18-20.8#	602-52-511	1
18	RUBBER SPACER	613-51-840	2
19	RUBBER RETAINER	613-51-850	1
20	CONE	613-45-420	1
21	LOWER SLIP	600-50-135XX	4
22	DRAG BLOCK BODY	613-51-330	1
23	J-BODY ASSEMBLY	613-51-341	1
24	BOTTOM SUB, 2-3/8 EU 8RD	613-45-630	1
25	RUBBER MANDREL CAP	613-45-230	1
26	SOC. SET SCREW, 1/4-20 X 3/8	003-C4-006	4
27	SOC. CAP SCREW, 10-24 X 1/2	005-03-008	4
28	HOLD DOWN BUTTON SPRING	613-45-975	48
29	DRAG BLOCK LEAF SPRING, DB 450 - DB 590	091-00-900	25
30	DRAG BLOCK, DB 550	090-55-900	5
31	LOWER SLIP SPRING	071-45-901	4
32	O-RING	050-90-231	2
33	O-RING	050-90-230	1
34	O-RING	050-90-234	1
35	O-RING	050-90-232	1
36	O-RING	050-90-236	1
37	O-RING	050-90-235	1
38	O-RING	050-90-125	8
39	O-RING	050-90-333	1

5-1/2" X 2-3/8" H/D COMPRESSION SET PACKER

COMPLETE ASSEMBLY
COMPLETE ASSEMBLY, CARBIDE

613-55-000
613-55-0C1
CASING RANGE: 14.0 - 17.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-3/8 EU 8RD	12BB-02	1
2	WICKER BUTTON, 14.0 - 17.0#	613-55-972	6
3	HOLD DOWN STRAP	613-55-360	3
4	HYDRAULIC HOLD DOWN CAP	613-55-370	1
5	HYDRAULIC HOLD DOWN BODY	613-57-321	1
6	HYDRAULIC HOLD DOWN EXTENSION	613-55-310	1
7	STRAP RETAINER, 14.0 - 17.0#	613-55-650	1
8	CENTRAL BODY	613-55-381	1
9	INNER MANDREL	613-55-210	1
10	COMPENSATING MANDREL	613-55-240	1
11	COMPENSATING PISTON	613-55-710	1
12	SEAL RECEPTACLE	613-55-730	1
13	SEAL RETAINER	613-55-530	1
14	SEAL	613-55-520	1
15	VALVE BODY, 14.0 - 17.0#	613-55-350	1
16	RUBBER SPACER, 13.0 - 20.0#	602-55-840	2
17	RUBBER RETAINER, 14.0 - 17.0#	611-55-850	1
18	PACKING ELEMENT, 90 DURO, 13.0 - 20.0#	602-55-513	2
19	PACKING ELEMENT, 70 DURO, 13.0 - 20.0#	602-55-511	1
20	RUBBER MANDREL, 14.0 - 17.0#	613-55-220	1
21	LOWER CONE	613-55-420	1
22	DRAG BLOCK BODY ASSEMBLY	613-55-330	1
23	DRAG BLOCK, DB 550	090-55-900	6
24	DRAG BLOCK RETAINER	600-55-910	1
25	RUBBER MANDREL CAP	600-55-230	1
26	J-BODY ASSEMBLY	613-55-340	1
27	BOTTOM SUB, 2-3/8 EU 8RD	610-55-630	1
28	SLIP	710-55-110	4
29	SPRING	613-55-975	18
30	DRAG BLOCK LEAF SPRING, DB 450 - DB 590	091-00-900	30
31	LOWER SLIP SPRING	071-55-900	8
32	SOC. CAP SCREW, 5/16 X 1/2	005-C5-008	3
33	SOC. SET SCREW, 5/16-18 X 1/2	003-C5-008	3
34	O-RING	050-90-224	6
35	O-RING	050-90-235	2
36	O-RING	050-90-236	2
37	O-RING	050-90-241	1
38	O-RING	050-90-334	1
39	O-RING	050-90-339	1
40	O-RING	050-90-342	1

5-1/2" X 2-3/8" H/D COMPRESSION SET PACKER

COMPLETE ASSEMBLY
COMPLETE ASSEMBLY, CARBIDE

613-57-000
613-57-0C1
CASING RANGE: 20.0 - 23.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-3/8 EU 8RD	12BB-02	1
2	WICKER BUTTON, 20.0 - 23.0#	613-57-972	6
3	HOLD DOWN STRAP	613-55-360	3
4	HYDRAULIC HOLD DOWN CAP	613-57-370	1
5	HYDRAULIC HOLD DOWN BODY	613-57-321	1
6	HYDRAULIC HOLD DOWN EXTENSION	613-55-310	1
7	STRAP RETAINER	613-57-650	1
8	CENTRAL BODY	613-55-381	1
9	INNER MANDREL	613-55-210	1
10	COMPENSATING MANDREL	613-55-240	1
11	COMPENSATING PISTON	613-55-710	1
12	SEAL RECEPTACLE	613-55-730	1
13	SEAL RETAINER	613-55-530	1
14	SEAL	613-55-520	1
15	VALVE BODY, 20.0 - 23.0#	613-57-350	1
16	RUBBER SPACER, 20.0 - 23.0#	602-57-840	2
17	RUBBER RETAINER	611-57-850	1
18	PACKING ELEMENT, 90 DURO, 20.0 - 23.0#	602-57-513	2
19	PACKING ELEMENT, 70 DURO, 20.0 - 23.0#	602-57-511	1
20	RUBBER MANDREL	613-57-220	1
21	LOWER CONE	613-55-420	1
22	DRAG BLOCK BODY	613-57-330	1
23	DRAG BLOCK, DB 450	090-45-900	6
24	DRAG BLOCK RETAINER	600-57-910	1
25	RUBBER MANDREL CAP	600-55-230	1
26	J-BODY ASSEMBLY	613-55-340	1
27	BOTTOM SUB, 2-3/8 EU 8RD	610-55-630	1
28	SLIP	710-55-110XX	4
29	SPRING	613-55-975	18
30	DRAG BLOCK LEAF SPRING	091-00-900	24
31	LOWER SLIP SPRING	071-55-900	8
32	SOC. CAP SCREW, 5/16 X 1/2	005-C5-008	3
33	SOC. SET SCREW, 5/16-18 X 1/2	003-C5-008	3
34	O-RING	050-90-224	6
35	O-RING	050-90-235	2
36	O-RING	050-90-236	2
37	O-RING	050-90-241	1
38	O-RING	050-90-334	1
39	O-RING	050-90-339	1
40	O-RING	050-90-342	1

5-1/2" X 2-7/8" H/D COMPRESSION SET PACKER

COMPLETE ASSEMBLY

613-58-000

CASING RANGE: 14.0 - 17.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-7/8 EU 8RD	405-70-620	1
2	INNER MANDREL, 14.0 - 17.0#	613-58-210	1
3	HYDRAULIC HOLD DOWN BODY	613-58-322	1
4	HOLD DOWN CAP BODY	613-58-370	1
5	WICKER BUTTON, 14.0 - 17.0#	613-58-973	6
6	HOLD DOWN STRAP	613-58-360	3
7	SOC. CAP SCREW, 5/16 X 1/2	005-C5-008	3
8	STRAP RETAINER, 14.0 - 17.0#	613-55-650	1
9	SPRING	613-55-975	18
10	COMPENSATING MANDREL	613-58-240	1
11	COMPENSATING PISTON	613-58-710	1
12	SEAL RECEPTACLE, 14.0 - 17.0#	613-58-730	1
13	SEAL	610-56-520	1
14	SEAL RETAINER	613-58-530	1
15	CENTRAL BODY	613-55-382	1
16	VALVE BODY	613-58-351	1
17	RUBBER MANDREL	613-58-221	1
18	PACKING ELEMENT, 90 DURO, 15.5 - 17.0#	602-56-513	2
19	PACKING ELEMENT, 70 DURO, 15.5 - 17.0#	602-56-511	1
20	RUBBER SPACER, 20.0 - 23.0#	602-59-840	2
21	RUBBER RETAINER	610-56-850	1
22	LOWER CONE	613-58-420	1
23	SLIP	600-58-130XX	4
24	LOWER SLIP SPRING	071-55-900	4
25	CONTROL BODY ASSEMBLY	613-58-330	1
26	DRAG BLOCK, DB 560	090-56-900	4
27	DRAG BLOCK LEAF SPRING	091-00-900	20
28	DRAG BLOCK RETAINER	600-59-910	1
29	RUBBER MANDREL CAP	600-56-230	1
30	J-BODY ASSEMBLY	613-58-340	1
31	BOTTOM SUB, 2-7/8 EU 8RD	613-58-630	1
32	SOC. SET SCREW, 5/16-18 X 3/8	003-C5-006	3
33	O-RING	050-90-337	1
34	O-RING	050-90-240	1
35	O-RING	050-90-133	6
36	O-RING	050-90-342	1
37	O-RING	050-90-340	1
38	O-RING	050-90-153	2
39	O-RING	050-90-235	1

7" x 2-7/8" H/D COMPRESSION SET PACKER

COMPLETE ASSEMBLY
COMPLETE ASSEMBLY, CARBIDE

613-70-000
613-70-0C1
CASING RANGE: 26.0 - 32.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-7/8 EU 8RD	12BB-01	1
2	WICKER BUTTON, 26.0 - 32.0#	613-70-974	6
3	HOLD DOWN STRAP	613-70-360	3
4	SPRING	613-70-975	18
5	SOC. CAP SCREW, 5/16 X 1/2	005-C5-008	3
6	HOLD DOWN CAP, 26.0 - 32.0#	613-70-370	1
7	HYDRAULIC HOLD DOWN BODY, 26.0 - 32.0#	613-70-320	1
8	HYDRAULIC HOLD DOWN EXTENSION, 26.0 - 32.0#	613-70-310	1
9	STRAP RETAINER	613-70-650	1
10	CENTRAL BODY	613-70-385	1
11	INNER MANDREL	613-70-210	1
12	COMPENSATING MANDREL, 26.0 - 32.0#	613-70-240	1
13	COMPENSATING PISTON	613-70-715	1
14	SEAL RECEPTACLE	613-70-730	1
15	SEAL RETAINER	613-70-530	1
16	SEAL	613-70-520	1
17	VALVE BODY	613-70-350	1
18	GAGE RING, 26.0 - 32.0#	611-70-830	2
19	RUBBER SPACER, 26.0 - 32.0#	611-70-840	2
20	RUBBER RETAINER	611-70-855	1
21	PACKING ELEMENT, 90 DURO, 26.0 - 32.0#	602-70-513	2
22	PACKING ELEMENT, 70 DURO, 26.0 - 32.0#	602-70-511	1
23	RUBBER MANDREL ASSEMBLY, 26.0 - 32.0#	613-70-220	1
24	LOWER CONE, 26.0 - 32.0#	613-70-420	1
25	SLIP	710-70-110	4
26	CONTROL BODY ASSEMBLY	613-70-330	1
27	DRAG BLOCK, DB 700	090-70-900	6
28	DRAG BLOCK LEAF SPRING, DB 700 - DB 1000	091-01-900	36
29	DRAG BLOCK RETAINER, 26.0 - 32.0#	600-70-910	1
30	RETAINING RING	600-70-911	1
31	RUBBER MANDREL CAP	600-70-230	1
32	J-BODY ASSEMBLY	613-70-340	1
33	BOTTOM SUB, 2-7/8 EU 8RD	613-70-635	1
34	SOC. SET SCREW, 3/8-16 X 5/8	003-C6-010	3
35	SOC. SET SCREW, 3/8-16 X 3/8	003-C6-006	3
36	SLIP LEAF SPRING	071-70-900	8
37	O-RING	050-90-230	6
38	O-RING	050-90-241	3
39	O-RING	050-90-243	1
40	O-RING	050-90-339	1
41	O-RING	050-90-344	1
42	O-RING	050-90-350	2

7" x 2-7/8" H/D COMPRESSION SET PACKER

COMPLETE ASSEMBLY
COMPLETE ASSEMBLY, CARBIDE

613-72-000
613-72-0C3
CASING RANGE: 17.0 - 26.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-7/8 EU 8RD	12BB-01	1
2	WICKER BUTTON, 17.0 - 26.0#	613-72-974	6
3	HOLD DOWN STRAP	613-70-360	3
4	SPRING	613-70-975	18
5	SOC. CAP SCREW, 5/16 X 1/2	005-C5-008	3
6	HOLD DOWN CAP, 17.0 - 26.0#	613-72-370	1
7	HYDRAULIC HOLD DOWN BODY, 26.0 - 32.0#	613-70-320	1
8	HYDRAULIC HOLD DOWN EXTENSION	613-70-310	1
9	STRAP RETAINER, 17.0 - 26.0#	613-72-650	1
10	CENTRAL BODY	613-70-385	1
11	INNER MANDREL	613-70-210	1
12	COMPENSATING MANDREL, 26.0 - 32.0#	613-70-240	1
13	COMPENSATING PISTON	613-70-715	1
14	SEAL RECEPTACLE	613-70-730	1
15	SEAL RETAINER	613-70-530	1
16	SEAL	613-70-520	1
17	VALVE BODY	613-70-350	1
18	GAGE RING, 17.0 - 26.0#	611-72-830	2
19	RUBBER SPACER, 17.0 - 26.0#	611-72-840	2
20	RUBBER RETAINER	611-70-855	1
21	PACKING ELEMENT, 90 DURO, 17.0 - 26.0#	602-72-513	2
22	PACKING ELEMENT, 70 DURO, 17.0 - 26.0#	602-72-511	1
23	RUBBER MANDREL ASSEMBLY, 26.0 - 32.0#	613-70-220	1
24	LOWER CONE, 26.0 - 32.0#	613-70-420	1
25	SLIP	710-70-110	4
26	CONTROL BODY ASSEMBLY	613-70-330	1
27	DRAG BLOCK, DB 800	090-80-900	6
28	DRAG BLOCK LEAF SPRING, DB 700 - DB 1000	091-01-900	36
29	DRAG BLOCK RETAINER, 17.0 - 26.0#	600-72-910	1
30	RETAINING RING	600-70-911	1
31	RUBBER MANDREL CAP	600-70-230	1
32	J-BODY ASSEMBLY	613-70-340	1
33	BOTTOM SUB, 2-7/8 EU 8RD	613-70-635	1
34	SOC. SET SCREW, 3/8-16 X 5/8	003-C6-010	3
35	SLIP LEAF SPRING	071-70-900	8
36	O-RING	050-90-230	6
37	O-RING	050-90-241	3
38	O-RING	050-90-243	1
39	O-RING	050-90-339	1
40	O-RING	050-90-344	1
41	O-RING	050-90-350	2

7-5/8" x 2-7/8" H/D COMPRESSION SET PACKER

COMPLETE ASSEMBLY

613-75-0C0

CASING RANGE: 33.7 - 39.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-7/8 EU 8RD	12BB-01	1
2	HYDRAULIC HOLD DOWN BUTTON	613-75-445	6
3	HOLD DOWN STRAP	613-70-360	3
4	SPRING	613-70-975	18
5	SOC. CAP SCREW, 5/16 X 1/2	005-C5-008	3
6	HOLD DOWN CAP	613-75-370	1
7	HYDRAULIC HOLD DOWN BODY, 26.0 - 32.0#	613-70-320	1
8	HYDRAULIC HOLD DOWN EXTENSION, 26.0 - 32.0#	613-70-310	1
9	RETAINER STRAP	613-75-650	1
10	CENTRAL BODY	613-70-385	1
11	INNER MANDREL,	613-70-210	1
12	COMPENSATING MANDREL, 26.0 - 32.0#	613-70-240	1
13	COMPENSATING PISTON	613-70-715	1
14	SEAL RECEPTACLE	613-70-730	1
15	SEAL RETAINER	613-70-530	1
16	SEAL	613-70-520	1
17	VALVE BODY	613-70-350	1
18	GAGE RING	650-75-830	2
19	RUBBER SPACER, 33.7 - 39.0#	602-75-840	2
20	RUBBER RETAINER	613-75-855	1
21	PACKING ELEMENT, 90 DURO, 33.7 - 39.0#	602-75-513	2
22	PACKING ELEMENT, 70 DURO, 33.7 - 39.0#	602-75-511	1
23	RUBBER MANDREL ASSEMBLY, 26.0 - 32.0#	613-70-220	1
24	LOWER CONE	600-75-420	1
25	SLIP, W/ CARBIDE	613-75-111	4
26	SLIP SUPPORT	613-75-200	1
27	SLIP SUPPORT SCREW	613-75-339	2
28	CONTROL BODY, 33.7 - 39.0#	613-75-330	1
29	DRAG BLOCK, DB 700	090-70-90P	6
30	DRAG BLOCK LEAF SPRING, DB 700 - DB 1000	091-01-900	36
31	RETAINER	613-75-910	1
32	RETAINING RING	600-75-911	1
33	RUBBER MANDREL CAP	600-70-230	1
34	J-BODY ASSEMBLY	613-70-340	1
35	BOTTOM SUB, 2-7/8 EU 8RD	613-70-635	1
36	SOC. SET SCREW, 3/8-16 X 5/8	003-C6-010	3
37	LOWER SLIP SPRING	071-10-900	16
38	O-RING	050-90-230	6
39	O-RING	050-90-241	3
40	O-RING	050-90-243	1
41	O-RING	050-90-339	1
42	O-RING	050-90-344	1
43	O-RING	050-90-350	2

7-5/8" x 2-7/8" H/D COMPRESSION SET PACKER

COMPLETE ASSEMBLY

613-76-0C0

CASING RANGE: 24.0 - 29.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
	COUPLING, 2-7/8 EU 8RD	12BB-01	1
2	HYDRAULIC HOLD DOWN BUTTON	613-76-445	6
3	HOLD DOWN STRAP	613-70-360	3
4	SPRING	613-70-975	18
5	SOC. CAP SCREW, 5/16 X 1/2	005-C5-008	3
6	HOLD DOWN CAP	613-76-370	1
7	HYDRAULIC HOLD DOWN BODY, 26.0 - 32.0#	613-70-320	1
8	HYDRAULIC HOLD DOWN EXTENSION, 26.0 - 32.0#	613-70-310	1
9	RETAINER STRAP	613-76-650	1
10	CENTRAL BODY	613-70-385	1
11	INNER MANDREL	613-70-210	1
12	COMPENSATING MANDREL, 26.0 - 32.0#	613-70-240	1
13	COMPENSATING PISTON	613-70-715	1
14	SEAL RECEPTACLE	613-70-730	1
15	SEAL RETAINER	613-70-530	1
16	SEAL	613-70-520	1
17	VALVE BODY	613-70-350	1
18	GAGE RING, 24-29#	613-76-351	2
19	RUBBER SPACER, 24-29#	613-76-840	2
20	RUBBER RETAINER	613-75-855	1
21	PACKING ELEMENT, 90 DURO, 24.0 - 29.7#	613-76-513	2
22	PACKING ELEMENT, 70 DURO, 24.0 - 29.7#	613-76-511	1
23	RUBBER MANDREL ASSEMBLY, 26.0 - 32.0#	613-70-220	1
24	LOWER CONE	600-75-420	1
25	SLIP, W/ CARBIDE	613-75-111	4
26	SLIP SUPPORT	613-75-200	1
27	SLIP SUPPORT SCREW	613-75-339	2
28	CONTROL BODY, 33.7 - 39.0#	613-75-330	1
29	DRAG BLOCK, DB 700	090-70-90P	6
30	DRAG BLOCK LEAF SPRING, DB 700 - DB 1000	091-01-900	36
31	DRAG BLOCK RETAINER	613-76-910	1
32	RETAINING RING	600-75-911	1
33	RUBBER MANDREL CAP	600-70-230	1
34	J-BODY ASSEMBLY	613-70-340	1
35	BOTTOM SUB, 2-7/8 EU 8RD	613-70-635	1
36	SOC. SET SCREW, 3/8-16 X 5/8	003-C6-010	3
37	LOWER SLIP SPRING	071-10-900	16
38	O-RING	050-90-230	6
39	O-RING	050-90-241	3
40	O-RING	050-90-243	1
41	O-RING	050-90-339	1
42	O-RING	050-90-344	1
43	O-RING	050-90-350	2

9-5/8 X 4-1/2" H/D COMPRESSION SET PACKER

COMPLETE ASSEMBLY

613-95-000

CASING RANGE: 43.5 - 53.5#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 4-1/2 EU 8RD	12BB-04	1
2	INNER MANDREL	613-95-210	1
3	HYDRAULIC HOLD DOWN EXTENSION	613-95-310	1
4	O-RING	050-90-428	1
5	HYDRAULIC HOLD DOWN BODY	613-95-320	1
6	O-RING	050-90-360	1
7	HYDRAULIC HOLD DOWN CAP	613-95-370	1
8	HOLD DOWN STRAP	613-95-360	4
9	HOLD DOWN BUTTON	613-95-974	8
10	DRAG BLOCK LEAF SPRING, DB 700 - DB 1000	091-01-900	16
11	O-RING	050-90-338	8
12	FLAT HEAD SCREW, 5/16-18 X 5/8	005-C5-010	4
13	STRAP RETAINER	613-95-650	1
14	O-RING	050-90-439	2
15	CENTRAL BODY	613-95-380	1
16	COMPENSATING PISTON	613-95-710	1
17	O-RING	050-90-433	1
18	COMPENSATING MANDREL	613-95-240	1
19	SEAL RECEPTACLE	613-95-730	1
20	O-RING	050-90-357	1
21	O-RING	050-90-358	1
22	SEAL	610-95-520	1
23	SEAL RETAINER	613-95-530	1
24	BODY EXTENSION	613-95-385	1
25	VALVE BODY	610-95-350	1
26	O-RING	050-90-252	1
27	GAGE RING, 43.5-53.5#	602-95-830	1
28	PACKING ELEMENT	725-95-523	2
29	PACKING ELEMENT	725-95-521	1
30	RUBBER SPACER, 43.5-53.5#	602-95-840	2
31	RUBBER MANDREL	610-95-220	1
32	RUBBER RETAINER	602-95-850	1
33	LOWER CONE	610-95-420	1
34	WICKER SLIP	710-95-110	4
35	LOWER SLIP SPRING	071-10-900	8
36	CONTROL BODY ASSEMBLY	613-95-330	1
37	DRAG BLOCK, DB 700	090-70-900	8
38	DRAG BLOCK LEAF SPRING, DB 700 - DB 1000	091-01-900	48
39	LOWER SLIP SUPPORT SCREW	600-95-339	2
40	DRAG BLOCK RETAINER	600-95-910	1
41	RETAINING RING	600-95-911	1
42	RUBBER MANDREL CAP	600-95-230	1
43	J-BODY ASSEMBLY	610-95-370	1
44	BOTTOM SUB, 4-1/2 EU 8RD	610-95-630	1
45	SOC. SET SCREW, 3/8-16 X 5/8	003-C6-010	3
46	LOWER SLIP SUPPORT	600-95-912	1

2-7/8" 32-A TENSION SET PACKER

COMPLETE ASSEMBLY

620-25-000

CASING RANGE: 6.4 - 6.5#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING	11DD-01	1
2	UPPER MANDREL	620-25-210	1
3	LOWER MANDREL	620-25-230	1
4	SCREW SLEEVE	620-25-621	1
5	CENTER CONNECTION	620-25-622	1
6	DRAG SPRING BODY	620-25-330	1
7	J-BODY	620-25-340	1
8	J-PIN RETAINER	620-25-920	1
9	J-PIN LUG	620-25-120	1
10	J-PIN LUG, BLANK	620-25-130	1
11	UPPER CONE	620-25-410	1
12	SLIP	620-25-110X	4
13	LOWER CONE	620-25-420	1
14	RUBBER MANDREL	620-25-220	1
15	RUBBER SPACER	620-25-840	1
16	RUBBER RETAINER	620-25-850	1
17	BOTTOM SUB	620-25-630	1
18	PACKING ELEMENT, 80 DURO	620-25-512	2
19	DRAG SPRING	350-45-920	4
20	BUTTON HEAD CAP SCREW, 5/16-18 X 5/16	004-C5-005	8
21	O-RING	050-90-120	2
22	O-RING	050-90-216	2
23	O-RING	050-90-222	1
24	SLIP COIL SPRING	070-25-900	4

3-1/2" 32-A TENSION SET PACKER

COMPLETE ASSEMBLY

620-30-000

CASING RANGE: 7.7 - 10.2#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING	11DD-01	1
2	UPPER MANDREL	620-25-210	1
3	LOWER MANDREL	620-25-230	1
4	SCREW SLEEVE	620-25-621	1
5	CENTER CONNECTION	620-25-622	1
6	DRAG SPRING BODY	620-30-330	1
7	J-BODY	620-25-340	1
8	J-PIN RETAINER	620-25-920	1
9	J-PIN LUG	620-25-120	1
10	J-PIN LUG, BLANK	620-25-130	1
11	UPPER CONE	620-25-410	1
12	SLIP	620-30-110X	4
13	LOWER CONE	620-30-420	1
14	RUBBER MANDREL	620-25-220	1
15	RUBBER SPACER	620-30-840	1
16	RUBBER RETAINER	620-30-850	1
17	BOTTOM SUB	620-25-630	1
18	PACKING ELEMENT, 80 DURO	620-30-512	2
19	DRAG SPRING	350-45-920	4
20	BUTTON HEAD CAP SCREW, 5/16-18 X 5/16	004-C5-005	8
21	O-RING	050-70-120	2
22	O-RING	050-90-216	2
23	O-RING	050-90-222	1
24	SLIP COIL SPRING	070-25-900	4

4" X 2-3/8" 32-A TENSION SET PACKER

COMPLETE ASSEMBLY

620-40-000

CASING RANGE: 9.5 - 11.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, ,2-3/8 EU 8RD	23BD-02	1
2	UPPER MANDREL	620-40-210	1
3	LOWER MANDREL	620-40-230	1
4	CENTER COUPLING	620-40-620	1
5	O-RING	050-90-225	2
6	CONTROL BODY, 9.5 - 11.0#	620-40-330	1
7	DRAG BLOCK UPPER RETAINER	620-40-960	1
8	J-BODY ASSEMBLY	620-40-320	1
9	UPPER CONE	620-40-410	1
10	LOWER CONE	620-40-420	1
11	O-RING	050-90-226	2
12	J-PIN	620-40-120	1
13	J-PIN, BLANK	620-40-130	1
14	J-PIN RETAINER	620-40-920	1
15	SLIP	620-40-110X	4
16	RUBBER MANDREL	620-40-220	1
17	RUBBER RETAINER	620-40-850	1
18	RUBBER SPACER	620-40-840	1
19	O-RING	050-90-229	1
20	PACKING ELEMENT, 80 DURO, 9.5 - 11.0#	620-40-512	2
21	BOTTOM SUB	620-40-630	1
22	O-RING	050-90-225	1
23	DRAG BLOCK, DB 450	090-45-900	4
24	DRAG BLOCK LEAF SPRING, DB 450 - DB 590	091-00-900	12
25	SLIP COIL SPRING	070-45-900	4

4-1/2" X 2-3/8" 32-A TENSION SET PACKER

COMPLETE ASSEMBLY

620-45-000

CASING RANGE: 9.5 - 13.5#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-3/8 EU 8RD	405-45-620HT	1
2	UPPER MANDREL	620-45-210	1
3	DRAG BLOCK BODY	620-45-330	1
4	CENTER COUPLING	620-45-620	1
5	J-BODY ASSEMBLY	620-45-340	1
6	UPPER DRAG BLOCK RETAINER	620-45-910	1
7	UPPER CONE	620-45-410	1
8	J-PIN	620-45-120	1
9	J-PIN RETAINER	620-45-920	1
10	J-PIN, BLANK	620-45-130	1
11	LOWER MANDREL	620-45-230	1
12	SLIP	620-45-112	4
13	LOWER CONE	620-45-420	1
14	RUBBER SPACER	620-45-840	1
15	RUBBER MANDREL	620-45-220	1
16	RUBBER RETAINER	620-45-850	1
17	BOTTOM SUB, 2-3/8 EU 8RD	620-45-630	1
18	DRAG BLOCK, DB 450	090-45-900	4
19	DRAG BLOCK LEAF SPRING	091-00-900	16
20	LOWER SLIP SPRING	071-45-901	8
21	PACKING ELEMENT, 80 DURO	620-45-512	2
22	O-RING	050-90-229	4
23	O-RING	050-90-232	1
24	O-RING	050-90-332	1

5" X 2-3/8" 32-A TENSION SET PACKER

COMPLETE ASSEMBLY

620-50-000

CASING RANGE: 13.0 - 18.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-3/8 EU 8RD	405-45-620HT	1
2	UPPER MANDREL	620-45-210	1
3	DRAG BLOCK BODY	620-45-330	1
4	DRAG BLOCK RETAINER	620-50-961	1
5	DRAG BLOCK, DB 570	090-57-900	4
6	DRAG BLOCK LEAF SPRING	091-00-900	20
7	J-BODY ASSEMBLY	620-45-340	1
8	CENTER COUPLING	620-45-620	1
9	J-PIN RETAINER	620-45-920	1
10	J-PIN	620-45-120	1
11	UPPER CONE	620-45-410	1
12	LOWER MANDREL	620-45-230	1
13	SLIP	620-50-112	4
14	LOWER SLIP SPRING	071-45-901	8
15	LOWER CONE	620-50-420	1
16	PACKING ELEMENT, 80 DURO	620-50-512	2
17	RUBBER MANDREL	620-45-220	1
18	RUBBER SPACER	620-50-840	1
19	RUBBER RETAINER ASSEMBLY	620-50-850	1
20	BOTTOM SUB, 2-3/8 EU 8RD	620-45-630	1
21	O-RING	050-90-229	4
22	O-RING	050-90-232	1
23	O-RING	050-90-332	1
24	J-PIN, BLANK	620-45-130	1

5-1/2" X 2-3/8" 32-A TENSION SET PACKER

COMPLETE ASSEMBLY

620-55-000

CASING RANGE: 14.0 - 17.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-3/8 EU 8RD	13BB-03	1
2	UPPER MANDREL	620-55-210	1
3	JACK NUT	620-55-950	1
4	BODY ASSEMBLY	620-55-330	1
5	DRAG BLOCK RETAINER	620-55-910	1
6	CENTER COUPLING	620-55-620	1
7	J-BODY ASSEMBLY	620-55-340	1
8	UPPER CONE	620-55-410	1
9	J-PIN RETAINER	620-55-920	1
10	J-PIN	620-55-120	2
11	LOWER MANDREL	620-55-230	1
12	PACKING ELEMENT, 80 DURO	620-55-512	2
13	LOWER CONE	620-55-420	1
14	RUBBER SPACER	620-55-840	1
15	RUBBER MANDREL	620-55-220	1
16	RUBBER RETAINER ASSEMBLY	620-55-850	1
17	BOTTOM SUB, 2-3/8 EU 8RD	620-55-630	1
18	DRAG BLOCK, DB 550	090-55-900	4
19	DRAG BLOCK LEAF SPRING	091-00-900	20
20	SLIP	620-55-112	4
21	UPPER SLIP SPRING	071-45-902	8
22	O-RING	050-90-333	1
23	O-RING	050-90-338	1
24	O-RING	050-90-334	2
25	O-RING	050-90-229	2

6-5/8" X 2-7/8" 32-A TENSION SET PACKER

COMPLETE ASSEMBLY

620-65-002

CASING RANGE: 24.0 - 28.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-7/8 EU 8RD	12BB-01	1
2	UPPER MANDREL	620-70-210	1
3	JACK NUT	620-70-950	1
4	DRAG BLOCK BODY	620-65-330	1
5	LOWER DRAG BLOCK RETAINER	620-65-910	1
6	CENTRAL COUPLING ASSEMBLY	620-70-620	1
7	J-BODY ASSEMBLY	620-65-340	1
8	UPPER CONE	620-70-410	1
9	J-PIN RETAINER	620-70-920	1
10	J-PIN	620-70-120	2
11	LOWER MANDREL	620-70-230	1
12	LOWER CONE, 24.0 - 28.0#	620-65-420	1
13	RUBBER SPACER, 24.0 - 28.0#	620-65-840	1
14	RUBBER MANDREL	620-70-220	1
15	RUBBER RETAINER, 24.0 - 28.0#	620-65-850	1
16	BOTTOM SUB, 2-7/8 EU 8RD	620-70-630	1
17	SLIP, 24.0 - 28.0#	620-65-111	4
18	UPPER SLIP SPRING	071-55-902	8
19	DRAG BLOCK, DB 550	090-55-900	4
20	DRAG BLOCK LEAF SPRING	091-00-900	20
21	PACKING ELEMENT, 80 DURO, 24-29#	620-65-512	2
22	O-RING	050-90-337	1
23	O-RING	050-90-346	1
24	O-RING	050-90-338	2
25	O-RING	050-90-336	2

7" X 2-7/8" 32-A TENSION SET PACKER

COMPLETE ASSEMBLY

620-70-000

CASING RANGE: 26.0 - 32.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-7/8 EU 8RD	12BB-01	1
2	UPPER MANDREL	620-70-210	1
3	JACK NUT	620-70-950	1
4	DRAG BLOCK BODY ASSEMBLY	620-70-330	1
5	LOWER DRAG BLOCK RETAINER	620-70-910	1
6	CENTREr COUPLING ASSEMBLY	620-70-620	1
7	J-BODY ASSEMBLY	620-70-340	1
8	UPPER CONE	620-70-410	1
9	J-PIN RETAINER	620-70-920	1
10	J-PIN	620-70-120	2
11	LOWER MANDREL	620-70-230	1
12	LOWER CONE	620-70-420	1
13	RUBBER SPACER	620-70-840	1
14	RUBBER MANDREL	620-70-220	1
15	RUBBER RETAINER	620-70-850	1
16	BOTTOM SUB, 2-7/8 EU 8RD	620-70-630	1
17	SLIP	620-70-111	4
18	UPPER SLIP SPRING	071-55-902	8
19	DRAG BLOCK, DB 700	090-70-900	6
20	DRAG BLOCK LEAF SPRING	091-01-900	36
21	PACKING ELEMENT, 80 DURO	620-70-512	2
22	O-RING	050-90-337	1
23	O-RING	050-90-346	1
24	O-RING	050-90-338	2
25	O-RING	050-90-336	2

7" X 2-7/8" 32-A TENSION SET PACKER

COMPLETE ASSEMBLY

620-72-000

CASING RANGE: 17.0 - 23.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-7/8 EU 8RD	12BB-01	1
2	UPPER MANDREL	620-70-210	1
3	JACK NUT	620-70-950	1
4	DRAG BLOCK BODY ASSEMBLY	620-70-330	1
5	LOWER DRAG BLOCK RETAINER	620-70-910	1
6	CENTRAL COUPLING ASSEMBLY	620-70-620	1
7	J-BODY ASSEMBLY	620-70-340	1
8	UPPER CONE	620-70-410	1
9	J-PIN RETAINER	620-70-920	1
10	J-PIN	620-70-120	2
11	LOWER MANDREL	620-70-230	1
12	LOWER CONE ASSEMBLY	620-72-420	1
13	RUBBER SPACER	620-72-840	1
14	RUBBER MANDREL	620-70-220	1
15	RUBBER RETAINER	620-72-850	1
16	BOTTOM SUB, 2-7/8 EU 8RD	620-70-630	1
17	SLIP	620-70-111	4
18	UPPER SLIP SPRING	071-55-902	8
19	DRAG BLOCK, DB 800	090-80-900	6
20	DRAG BLOCK LEAF SPRING	091-01-900	36
21	PACKING ELEMENT, 80 DURO	620-72-512	2
22	O-RING	050-90-337	1
23	O-RING	050-90-346	1
24	O-RING	050-90-338	2
25	O-RING	050-90-336	2

8-5/8" X 3-1/2" 32-A TENSION SET PACKER

COMPLETE ASSEMBLY, CARBIDE

620-85-006C

CASING RANGE: 24.0 - 40.0#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 3-1/2 EU 8RD	23BA-03	1
2	UPPER MANDREL	620-85-210	1
3	JACK NUT	620-85-950	1
4	J-BODY ASSEMBLY	620-85-342	1
5	DRAG BLOCK RETAINER	620-85-960	1
6	DRAG BLOCK, DB 800	090-80-90P	6
7	DRAG BLOCK LEAF SPRING, DB 700 - DB 1000	091-01-900	36
8	SLIP W/CARBIDE	620-85-113	4
9	UPPER SLIP SPRING	071-10-901	12
10	CENTRAL COUPLING ASSEMBLY	620-85-620	1
11	LOWER MANDREL	620-85-230	1
12	J-PIN	620-85-120	2
13	J-PIN RETAINER	620-85-920	1
14	UPPER CONE	620-85-410	1
15	LOWER CONE	620-85-420	1
16	RUBBER MANDREL	620-85-220	1
17	PACKING ELEMENT, 80 DURO, 24.0 - 40.0#	600-85-512	2
18	RUBBER SPACER, 24.0 - 40.0#	600-85-840	1
19	RUBBER RETAINER	620-85-850	1
20	BOTTOM SUB, 3-1/2 EU 8RD	620-85-625	1
21	BODY EXTENSION	620-85-340	1
22	O-RING	050-90-345	2
23	O-RING	050-90-344	3
24	O-RING	050-90-357	1

9-5/8" X 2-7/8" 32-A TENSION SET PACKER

COMPLETE ASSEMBLY

620-96-000

CASING RANGE: 43.5 - 53.5#

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	COUPLING, 2-7/8 EU 8RD	620-85-610	1
2	UPPER MANDREL	620-85-210	1
3	JACK NUT	620-85-950	1
4	J-BODY ASSEMBLY	620-96-320	1
5	UPPER DRAG BLOCK RETAINER	620-96-910	1
6	DRAG BLOCK, DB 700	090-70-900	8
7	DRAG BLOCK LEAF SPRING, DB 700 - DB 1000	091-01-900	48
8	SLIP	620-95-111	4
9	UPPER SLIP SPRING	071-10-901	16
10	CENTER COUPLING ASSEMBLY	620-85-620	1
11	LOWER MANDREL	620-85-230	1
12	J-PIN	620-85-120	2
13	J-PIN RETAINER	620-85-920	1
14	UPPER CONE	620-85-410	1
15	LOWER CONE, 43.5-53.5#	620-96-420	1
16	RUBBER MANDREL	620-85-220	1
17	PACKING ELEMENT, 80 DURO, 43.5-53.5#	620-96-512	2
18	RUBBER SPACER, 43.5-53.5#	620-96-840	1
19	RUBBER RETAINER, 43.5-53.5#	620-96-850	1
20	BOTTOM SUB, 2-7/8 EU 8RD	620-85-630	1
21	BODY EXTENSION	620-85-340	1
22	O-RING	050-90-344	2
23	O-RING	050-90-345	2
24	O-RING	050-90-357	1
25	O-RING	050-90-344	1

7/8" SC TENSION UNLOADER VALVE

COMPLETE ASSEMBLY

525-04-000

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	MANDREL	525-04-210	1
2	VALVE	525-04-350	1
3	SEAL RETAINER CAP	525-04-525	1
4	BODY	525-04-330	1
5	SEAL	525-04-520	1
6	O-RING	050-90-223	1
7	O-RING	050-90-219	1
8	BUTTON HEAD CAP SCREW, 5/16-18 X 5/16	004-C5-005	3

1-5/8" SC TENSION UNLOADER VALVE

COMPLETE ASSEMBLY

525-06-000

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	TOP SUB	525-06-620	1
2	MANDREL	525-06-210	1
3	BODY	525-06-310	1
4	COLLET	525-06-810	1
5	LOCK HOUSING	525-06-830	1
6	CENTER COUPLING	525-06-630	1
7	SEAL ASSEMBLY	525-06-520	1
8	BOTTOM	525-06-610	1
9	O-RING	050-90-329	1
10	O-RING	050-90-227	2
11	O-RING	050-90-232	1
12	O-RING	050-90-136	1
13	SPIROLOC RING	041-00-215	1

2-3/8" SC TENSION UNLOADER VALVE

COMPLETE ASSEMBLY

525-20-000

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	TOP SUB	525-20-620	1
2	MANDREL	525-20-210	1
3	cOLLET	525-20-810	1
4	SEAL ASSEMBLY	525-20-910	1
5	BODY	525-20-310	1
6	CENTER COUPLING	525-20-630	1
7	GUIDE RING	525-20-820	1
8	BOTTOM SUB	525-20-610	1
9	O-RING	050-90-235	1

2-7/8" SC TENSION UNLOADER VALVE

COMPLETE ASSEMBLY

525-25-000

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	TOP SUB	525-25-620	1
2	MANDREL	525-25-210	1
3	COLLET	525-25-810	1
4	SEAL ASSEMBLY	525-25-910	1
5	CENTER COUPLING	525-25-630	1
6	GUIDE RING	525-25-820	1
7	COUPLING EXTENSION	525-25-920	1
8	BODY	525-25-310	1
9	BOTTOM SUB	525-25-610	1
10	O-RING	050-90-343	1

3-1/2" SC TENSION UNLOADER VALVE

COMPLETE ASSEMBLY

525-35-000

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	TOP SUB	525-35-620	1
2	MANDREL	525-35-210	1
3	COLLET	525-35-810	1
4	CENTER COUPLING	525-35-625	1
5	COUPLING EXTENSION	525-35-920	1
6	SEAL ASSEMBLY	525-35-910	1
7	GUIDE RING	525-35-820	1
8	BODY	525-35-310	1
9	BOTTOM SUB	525-35-610	1
10	O-RING	050-90-349	1

4-1/2" SC TENSION UNLOADER VALVE

COMPLETE ASSEMBLY

525-45-000

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	TOP SUB	525-45-620	1
2	MANDREL	525-45-210	1
3	BODY	525-45-310	1
4	CENTER COUPLING	525-45-630	1
5	COLLET	525-45-810	1
6	BOTTOM SUB	525-45-610	1
7	SEAL ASSEMBLY	600-95-520	1
8	O-RING	050-90-350	2
9	O-RING	050-90-353	2
10	O-RING	050-90-351	2
11	O-RING	050-90-160	1

2-3/8" FULL BORE UNLOADER

COMPLETE ASSEMBLY

23FBU.1001

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	KEY	HK1007	1
2	O-RING	050-90-334	1
3	O-RING	050-90-335	1
4	O-RING	050-90-338	1
5	BODY	23FBU02	1
6	SEAL	23FBU03	1
7	SEAL RETAINING NUT	23FBU04	1
8	LATCH	23FBU05	1
9	HOUSING	23FBU06	1
10	TOP SUB	23FBU07	1

2-7/8" FULL BORE UNLOADER

COMPLETE ASSEMBLY

27FBU.1001

ITEM	DESCRIPTION	PART #	NO. REQ'D.
1	KEY	HK1012	1
2	O-RING	050-90-239	1
3	O-RING	050-90-338	1
4	O-RING	050-90-339	1
5	BODY	27FBU02	1
6	SEAL	27FBU03	1
7	SEAL RETAINING NUT	27FBU04	1
8	LATCH	27FBU05	1
9	HOUSING	27FBU06	1
10	TOP SUB	27FBU07	1