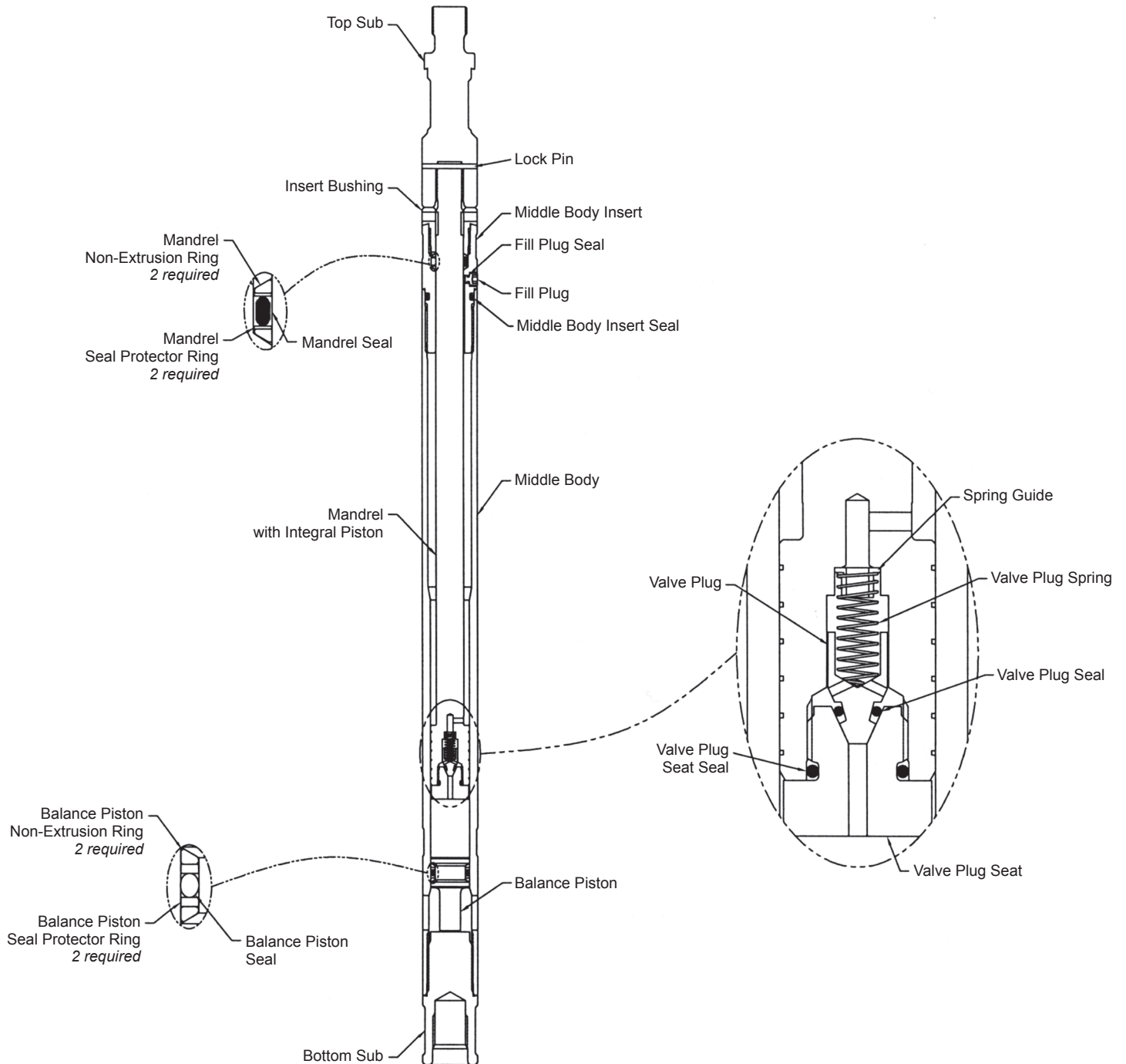




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HYDRAULIC WIRELINE JARS



Hydraulic Wireline Jars

HYDRAULIC WIRELINE JARS

Overview

The dependable Hydraulic Wireline Jar utilizes a hydraulic system that permits controlled jarring in measuring line or stranded wireline operations when electrical continuity below the jar is not required. Such operations include permanent well completion services; setting and pulling gas lift valves, chokes, and other retrievable downhole tubing equipment; and cable services such as swabbing, bailing, and fishing.

Its simple hydraulic system permits the operator to control the intensity of the blow within a broad range — from a light blow as needed for measuring line, to one of forceful impact required for stranded wireline. It is particularly valuable in fishing, swabbing, and permanent well completion operations.

Construction

The Hydraulic Wireline Jar essentially consists of two separate assemblies: a sliding mandrel within a hydraulic chamber. When completely assembled, these two principal as-

semblies are free to move within relationship to each other with their movement controlled by the hydraulic fluid. Seal ring assemblies are installed in the critical areas subject to high internal pressure. An integral piston on the lower end of the mandrel rests in the middle body cylinder when the jar is in closed position. A check valve in the piston allows the free passage of fluid to permit the jar to close freely. Each Hydraulic Wireline Jar top sub has appropriate wrench flats and fishing neck to provide safety against backing off during operation. Supplied with viton seals.

Assembly

The Hydraulic Wireline Jar is made up in the string just above the tools or equipment to be run. It is recommended that several sinker bars with an outside diameter corresponding to the jar be assembled above the tool. The weight of the sinker bars will determine the intensity of the jarring blow to a large extent. They will also aid in closing the jar with minimum lapse time.

The assembled tool is run into and out the well on measuring line or stranded wireline like any other fishing tool.

Operation

An upward strain is placed on the string by pulling upward. After setting the string, wait for the jar to strike a blow. After the jar has struck, slacking off the string will allow the jar to close. Repeat the jarring by pulling another strain on the string. The jarring force transmitted by the piston is proportional to the strain taken on the string. To increase the intensity of the blow, take a greater strain on the string. A lighter strain on the string will lessen the intensity of the jarring blow. The frequency of the blows struck can be as rapid as the operator can pick up and slack off the running string.

When ordering, please specify:

- (1) Name and number of assembly or part
- (2) Connections, if other than standard

OUTSIDE DIAMETER	1-1/8	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2	1-3/4
CONNECTIONS	5/8	15/16	15/16	15/16	15/16	15/16	3/4
PIN UP - BOX DOWN	11 THD	10 THD	10 THD	10 THD	10 THD	10 THD	SR
LENGTH OF STROKE	6-3/4	9-1/4	8-3/4	8-3/4	20	12	10
COMPLETE ASSEMBLY	700-000	700-925	700-875	700-002	700-003	700-004	700-1000
Bowen No.	35097	11740	11180	48383	51227	35518	79297
TOP SUB	AL1000	AL1001	AL1002	AL1002	AL1002	AL1002	AL1003
Bowen No.	35098	11741	10761	10761	10761	10761	12761
MIDDLE BODY	AL2000	AL2001	AL2002	AL2002	AL2003	AL2004	AL2005
Bowen No.	35099	11744	11182	11182	51228	35519	12765
MIDDLE BODY INSERT	AL3000	AL3001	AL3002	AL3002	AL3002	AL3002	AL3003
Bowen No.	35100	29486	28652	28652	28652	28652	79298
INSERT BUSHING	AL4000	AL4001	AL4002	AL4003	AL4002	AL4003	AL4006
Bowen No.	35101	33572	33571	35085	33571	35085	79299
MANDREL	AL5000	AL5001	AL5002	AL5003	AL5004	AL5005	AL5006
Bowen No.	35102	11742	11184	35086	51229	35520	79300
BOTTOM SUB	AL6000	AL6001	AL6002	AL6002	AL6002	AL6002	AL6003
Bowen No.	35103	11747	11181	11181	11181	11181	12767

When ordering, please specify:

- (1) Name and number of assembly or part
- (2) Connections, if other than standard

Recommended Spare Parts:

- (1) 1 Balanced Piston
- (2) 2 Valve Plugs
- (3) 4 Valve Plug Springs
- (4) 2 Valve Plug Seats
- (5) 6 Mandrel Non-Extrusion Rings
- (6) 6 Mandrel Seal Protector Rings
- (7) 4 Balance Piston Non-Extrusion Rings
- (8) 4 Balance Piston Seal Protector Rings
- (9) 6 Complete Packing Sets

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OUTSIDE DIAMETER		1-1/8	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2	1-3/4
CONNECTIONS		5/8	15/16	15/16	15/16	15/16	15/16	3/4
PIN UP - BOX DOWN		11 THD	10 THD	10 THD	10 THD	10 THD	10 THD	SR
LENGTH OF STROKE		6-3/4	9-1/4	8-3/4	8-3/4	20	12	10
COMPLETE ASSEMBLY		700-000	700-925	700-875	700-002	700-003	700-004	700-1000
	Bowen No.	35097	11740	11180	48383	51227	35518	79297
BALANCE PISTON		AL7000	AL7001	AL7002	AL7002	AL7002	AL7002	AL7003
	Bowen No.	35104	11746	11185	11185	11185	11185	12766
VALVE PLUG		AL8000	AL8000	AL8000	AL8000	AL8000	AL8000	AL8000
	Bowen No.	11189	11189	11189	11189	11189	11189	11189
VALVE PLUG SPRING		AL9000	AL9000	AL9000	AL9000	AL9000	AL9000	AL9000
	Bowen No.	834	834	834	834	834	834	834
VALVE PLUG SEAT		AL10000	AL10000	AL10001	AL10001	AL10001	AL10001	AL10001
	Bowen No.	11745	11745	11186	11186	11186	11186	11186
FILL PLUG		AG10004	AG10000	AG10000	AG10000	AG10000	AG10000	AG10000
	Bowen No.	39941	617	617	617	617	617	617
LOCK PIN		AL11000	AL11001	AL11002	AL11002	AL11002	AL11002	AL11003
	Bowen No.	15136	16010	13432	13432	13432	13432	18183
SPRING GUIDE		AL16000	AL16000	AL16000	AL16000	AL16000	AL16000	AL16000
	Bowen No.	48307	48307	48307	48307	48307	48307	48307
MANDREL		L365-11	L365-11	L365-15	L365-15	L365-15	L365-15	L365-17
NON-EXTRUSION RING	Bowen No.	365-11	365-11	365-15	365-15	365-15	365-15	365-17
	No. Req'd	2	2	2	2	2	2	2
MANDREL SEAL		L375-11	L375-11	L375-15	L375-15	L375-15	L375-15	L375-17
PROTECTOR RING	Bowen No.	375-11	375-11	375-15	375-15	375-15	375-15	375-17
	No. Req'd	2	2	2	2	2	2	2
BALANCE PISTON		L366-11	L366-11	L366-16	L366-16	L366-16	L366-16	L366-20
NON-EXTRUSION RING	Bowen No.	366-11	366-11	366-16	366-16	366-16	366-16	366-20
	No. Req'd	2	2	2	2	2	2	2
BALANCE PISTON		L82-11	L82-11	L82-16	L82-16	L82-16	L82-16	L82-20
SEAL PROTECTOR	Bowen No.	82-11	82-11	82-16	82-16	82-16	82-16	82-20
RING	No. Req'd	2	2	2	2	2	2	2

When ordering, please specify:

- (1) Name and number of assembly or part
- (2) Connections, if other than standard

Recommended Spare Parts:

- (1) 1 Balanced Piston
- (2) 2 Valve Plugs
- (3) 4 Valve Plug Springs
- (4) 2 Valve Plug Seats
- (5) 6 Mandrel Non-Extrusion Rings
- (6) 6 Mandrel Seal Protector Rings
- (7) 4 Balance Piston Non-Extrusion Rings
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OUTSIDE DIAMETER		1-1/8	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2	1-3/4
CONNECTIONS		5/8	15/16	15/16	15/16	15/16	15/16	3/4
PIN UP - BOX DOWN		11 THD	10 THD	10 THD	10 THD	10 THD	10 THD	SR
LENGTH OF STROKE		6-3/4	9-1/4	8-3/4	8-3/4	20	12	10
COMPLETE ASSEMBLY		700-000	700-001	700-875	700-002	700-003	700-004	700-1000
	Bowen No.	35097	11740	11180	48383	51227	35518	79297
VITON O-RING PACKING		28000-008	28000-009	28000-010	28000-010	28000-010	28000-010	28000-011
SET Consists of:	Bowen No.	35106	11754	11191	11191	11191	11191	79327
MANDREL SEAL		568-112	568-112	568-210	568-210	568-210	568-210	568-212
	Bowen No.	568112	568112	568210	568210	568210	568210	568212
BALANCE PISTON SEAL		568-113	568-113	568-211	568-211	568-211	568-211	568-215
	Bowen No.	568113	568113	568211	568211	568211	568211	568215
MIDDLE BODY		568-116	568-116	568-215	568-215	568-215	568-215	568-218
INSERT SEAL (LARGE)	Bowen No.	568116	568116	568215	568215	568215	568215	568218
MIDDLE BODY INSERT SEAL (SMALL)	Bowen No.	...	...	...	...	...	...	...
VALVE PLUG SEAL		568-007	568-007	568-007	568-007	568-007	568-007	568-007
	Bowen No.	568007	568007	568007	568007	568007	568007	568007
VALVE PLUG SEAT SEAL		568-110	568-110	568-112	568-112	568-112	568-112	568-112
	Bowen No.	568110	568110	568112	568112	568112	568112	568112
FILL PLUG SEAL		...	568-005	568-005	568-005	568-005	568-005	568-005
	Bowen No.	...	568005	568005	568005	568005	568005	568005

ACCESSORIES

SERVICE KIT		28001-013	28001-014	28001-015	28001-015	28001-015	28001-015	28001-016
	Bowen No.	35105	11751	11178	11178	11178	11178	15997
MANDREL BODY SETTING TOOL		AG1000-10	AG1000-11	AG1000-15	AG1000-15	AG1000-15	AG1000-15	AG1000-17
	Bowen No.	22709-10	22709-11	22709-15	22709-15	22709-15	22709-15	22709-17
BALANCE PISTON SETTING TOOL		AL13000-11	AL13001	AL13000-16	AL13000-16	AL13000-16	AL13000-16	AL13000-20
	Bowen No.	22729-11	11753	22729-16	22729-16	22729-16	22729-16	22729-20
JAR LUBE – 1 GALLON		49842-A						
	Bowen No.	49842-A						
5 GALLONS		49842-B						
	Bowen No.	49842-B						
20 GALLONS		49842-C						
	Bowen No.	49842-C						
55 GALLONS		49842-D						
	Bowen No.	49842-D						

When ordering, please specify:

- (1) Name and number of assembly or part
- (2) Connections, if other than standard

Recommended Spare Parts:

- (1) 1 Balanced Piston
- (2) 2 Valve Plugs
- (3) 4 Valve Plug Springs
- (4) 2 Valve Plug Seats
- (5) 6 Mandrel Non-Extrusion Rings
- (6) 6 Mandrel Seal Protector Rings
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Hydraulic Wireline Jars

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OUTSIDE DIAMETER	2-1/8	2-3/4
CONNECTIONS	7/8	1-9/16
PIN UP - BOX DOWN	SR	10 THD
LENGTH OF STROKE (INCHES)	11-5/8	20
COMPLETE ASSEMBLY	700-1163	700-006
Bowen No.	11550	...
TOP SUB	AL1004	AL1005
Bowen No.	11543	...
MIDDLE BODY	AL2006	AL2007
Bowen No.	11537	...
MIDDLE BODY INSERT	AL3004	AL3005
Bowen No.	11538	...
INSERT BUSHING	...	...
Bowen No.	...	...
MANDREL	AL5007	AL5008
Bowen No.	11539	...
BOTTOM SUB	AL6004	AL6005
Bowen No.	11536	...
BALANCE PISTON	AL7004	AL7005
Bowen No.	11540	...
VALVE PLUG	AL8000	AL8001
Bowen No.	11189	...
VALVE PLUG SPRING	AL9000	AL9001
Bowen No.	834	...
VALVE PLUG SEAT	AL10001	AL10002
Bowen No.	11186	...
FILL PLUG	AG10002	AG10003
Bowen No.	329	...
LOCK PIN	AL11004	AL11005
Bowen No.	42732	...
SPRING GUIDE	AL16000	AL16001
Bowen No.	48307	...

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Recommended Spare Parts:

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- (3) 4 Valve Plug Springs
- (4) 2 Valve Plug Seats
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Hydraulic Wireline Jars

HYDRAULIC WIRELINE JARS

OUTSIDE DIAMETER		2-1/8	2-3/4
CONNECTIONS		7/8	1-9/16
PIN UP - BOX DOWN		SR	10 THD
LENGTH OF STROKE (INCHES)		6-3/4	20
COMPLETE ASSEMBLY		700-1163	700-006
	Bowen No.	11550	...
MANDREL		L365-21	L365-27
NON-EXTRUSION RING	Bowen No.	365-21	365-27
	No. Req'd	2	2
MANDREL SEAL		L375-21	L375-27
PROTECTOR RING	Bowen No.	375-21	375-27
	No. Req'd	2	2
BALANCE PISTON		L366-24	L366-28.5
NON-EXTRUSION RING	Bowen No.	366-24	...
	No. Req'd	2	2
BALANCE PISTON SEAL		L82-24	8-235
PROTECTOR RING	Bowen No.	82-24	...
	No. Req'd	2	2

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- (2) Connections, if other than standard

Recommended Spare Parts:

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- (3) 4 Valve Plug Springs
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Hydraulic Wireline Jars

HYDRAULIC WIRELINE JARS

OUTSIDE DIAMETER	2-1/8	2-3/4
CONNECTIONS	7/8	1-9/16
PIN UP - BOX DOWN	SR	10 THD
LENGTH OF STROKE (INCHES)	11-5/8	20
COMPLETE ASSEMBLY	700-1163	700-006
Bowen No.	11550	...
VITON O-RING PACKING	28000-012	28000-013
SET Consists of:	Bowen No.	11553
MANDREL SEAL	568-216	568-222
Bowen No.	568216	568222
BALANCE PISTON SEAL	568-219	568-325
Bowen No.	568219	568325
MIDDLE BODY	568-223	568-226
INSERT SEAL (LARGE)	Bowen No.	568223
MIDDLE BODY INSERT SEAL (SMALL)	Bowen No.	568211
VALVE PLUG SEAL	568-007	568-007
Bowen No.	568007	568007
VALVE PLUG SEAT SEAL	568-112	568-112
Bowen No.	568112	568112
FILL PLUG SEAL	568-006	568-006
Bowen No.	568006	568006

ACCESSORIES

SERVICE KIT	28001-017
Bowen No.	11554
MANDREL BODY SETTING TOOL	AG1000-24
Bowen No.	22709-21
BALANCE PISTON SETTING TOOL	AL13000-24
Bowen No.	22729-24

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