



~ est. 1990
CANAM
pipe & supply

HYDRAULIC WIRELINE JARS

Top Sub

Insert Bushing

Mandrel
Non-Extrusion Ring
2 required

Mandrel
Seal Protector Ring
2 required

Mandrel Seal

Lock Pin

Middle Body Insert

Fill Plug Seal

Fill Plug

Middle Body Insert Seal

Middle Body

Mandrel
with Integral Piston

Spring Guide

Valve Plug

Valve Plug Spring

Valve Plug Seal

Valve Plug
Seat Seal

Balance Piston
Non-Extrusion Ring
2 required

Balance Piston
Seal Protector Ring
2 required

Balance Piston
Seal

Balance Piston

Valve Plug Seat

Bottom Sub

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

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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

HYDRAULIC WIRELINE JARS

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	Logan Part No.	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 SET	Logan Part No.	28000-008	28000-009	28000-010	28000-010	28000-010	28000-010	28000-011
<i>Consists of:</i>	Bowen No.	35106	11754	11191	11191	11191	11191	79327
MANDREL SEAL	Logan Part No.	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	Logan Part No.	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	Logan Part No.	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	Logan Part No.	...	...	...	...	...	...	...
INSERT SEAL (SMALL)	Bowen No.	...	...	...	...	...	...	...
VALVE PLUG SEAL	Logan Part No.	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	Logan Part No.	568-110	568-110	568-112	568-112	568-112	568-112	568-112
SEAT SEAL	Bowen No.	568110	568110	568112	568112	568112	568112	568112
FILL PLUG SEAL	Logan Part No.	...	568-005	568-005	568-005	568-005	568-005	568-005
	Bowen No.	...	568005	568005	568005	568005	568005	568005

ACCESSORIES

SERVICE KIT	Logan Part No.	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	Logan Part No.	AG1000-10	AG1000-11	AG1000-15	AG1000-15	AG1000-15	AG1000-15	AG1000-17
SETTING TOOL	Bowen No.	22709-10	22709-11	22709-15	22709-15	22709-15	22709-15	22709-17
BALANCE PISTON	Logan Part No.	AL13000-11	AL13001	AL13000-16	AL13000-16	AL13000-16	AL13000-16	AL13000-20
SETTING TOOL	Bowen No.	22729-11	11753	22729-16	22729-16	22729-16	22729-16	22729-20
JAR LUBE –	Logan Part No.	49842-A						
1 GALLON	Bowen No.	49842-A						
5 GALLONS	Logan Part No.	49842-B						
	Bowen No.	49842-B						
20 GALLONS	Logan Part No.	49842-C						
	Bowen No.	49842-C						
55 GALLONS	Logan Part No.	49842-D						
	Bowen No.	49842-D						

Logan Oil Tools reserves the right to change or discontinue designs without notice.

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

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	Logan Part No.	700-1163	700-006				
	Bowen No.	11550	...				
TOP SUB	Logan Part No.	AL1004	AL1005				
	Bowen No.	11543	...				
MIDDLE BODY	Logan Part No.	AL2006	AL2007				
	Bowen No.	11537	...				
MIDDLE BODY INSERT	Logan Part No.	AL3004	AL3005				
	Bowen No.	11538	...				
INSERT BUSHING	Logan Part No.	...	...		
	Bowen No.	...	...		
MANDREL	Logan Part No.	AL5007	AL5008				
	Bowen No.	11539	...				
BOTTOM SUB	Logan Part No.	AL6004	AL6005				
	Bowen No.	11536	...				
BALANCE PISTON	Logan Part No.	AL7004	AL7005				
	Bowen No.	11540	...				
VALVE PLUG	Logan Part No.	AL8000	AL8001				
	Bowen No.	11189	...				
VALVE PLUG SPRING	Logan Part No.	AL9000	AL9001				
	Bowen No.	834	...				
VALVE PLUG SEAT	Logan Part No.	AL10001	AL10002				
	Bowen No.	11186	...				
FILL PLUG	Logan Part No.	AG10002	AG10003				
	Bowen No.	329	...				
LOCK PIN	Logan Part No.	AL11004	AL11005				
	Bowen No.	42732	...				
SPRING GUIDE	Logan Part No.	AL16000	AL16001				
	Bowen No.	48307	...				

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- (9) 6 Complete Packing Sets

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	Logan Part No.	700-1163	700-006				
	Bowen No.	11550	...				
MANDREL NON-EXTRUSION RING	Logan Part No.	L365-21	L365-27				
	Bowen No.	365-21	365-27				
	No. Req'd	2	2				
MANDREL SEAL PROTECTOR RING	Logan Part No.	L375-21	L375-27				
	Bowen No.	375-21	375-27				
	No. Req'd	2	2				
BALANCE PISTON NON-EXTRUSION RING	Logan Part No.	L366-24	L366-28.5				
	Bowen No.	366-24	...				
	No. Req'd	2	2				
BALANCE PISTON SEAL PROTECTOR RING	Logan Part No.	L82-24	8-235				
	Bowen No.	82-24	...				
	No. Req'd	2	2				

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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	Logan Part No.	700-1163	700-006				
	Bowen No.	11550	...				
VITON O-RING PACKING SET	Logan Part No.	28000-012	28000-013				
<i>Consists of:</i>	Bowen No.	11553	...				
MANDREL SEAL	Logan Part No.	568-216	568-222				
	Bowen No.	568216	568222				
BALANCE PISTON SEAL	Logan Part No.	568-219	568-325				
	Bowen No.	568219	568325				
MIDDLE BODY	Logan Part No.	568-223	568-226				
INSERT SEAL (LARGE)	Bowen No.	568223	568226				
MIDDLE BODY	Logan Part No.	568-211	568-224				
INSERT SEAL (SMALL)	Bowen No.	568211	568224				
VALVE PLUG SEAL	Logan Part No.	568-007	568-007				
	Bowen No.	568007	568007				
VALVE PLUG	Logan Part No.	568-112	568-112				
SEAT SEAL	Bowen No.	568112	568112				
FILL PLUG SEAL	Logan Part No.	568-006	568-006				
	Bowen No.	568006	568006				

ACCESSORIES

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

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