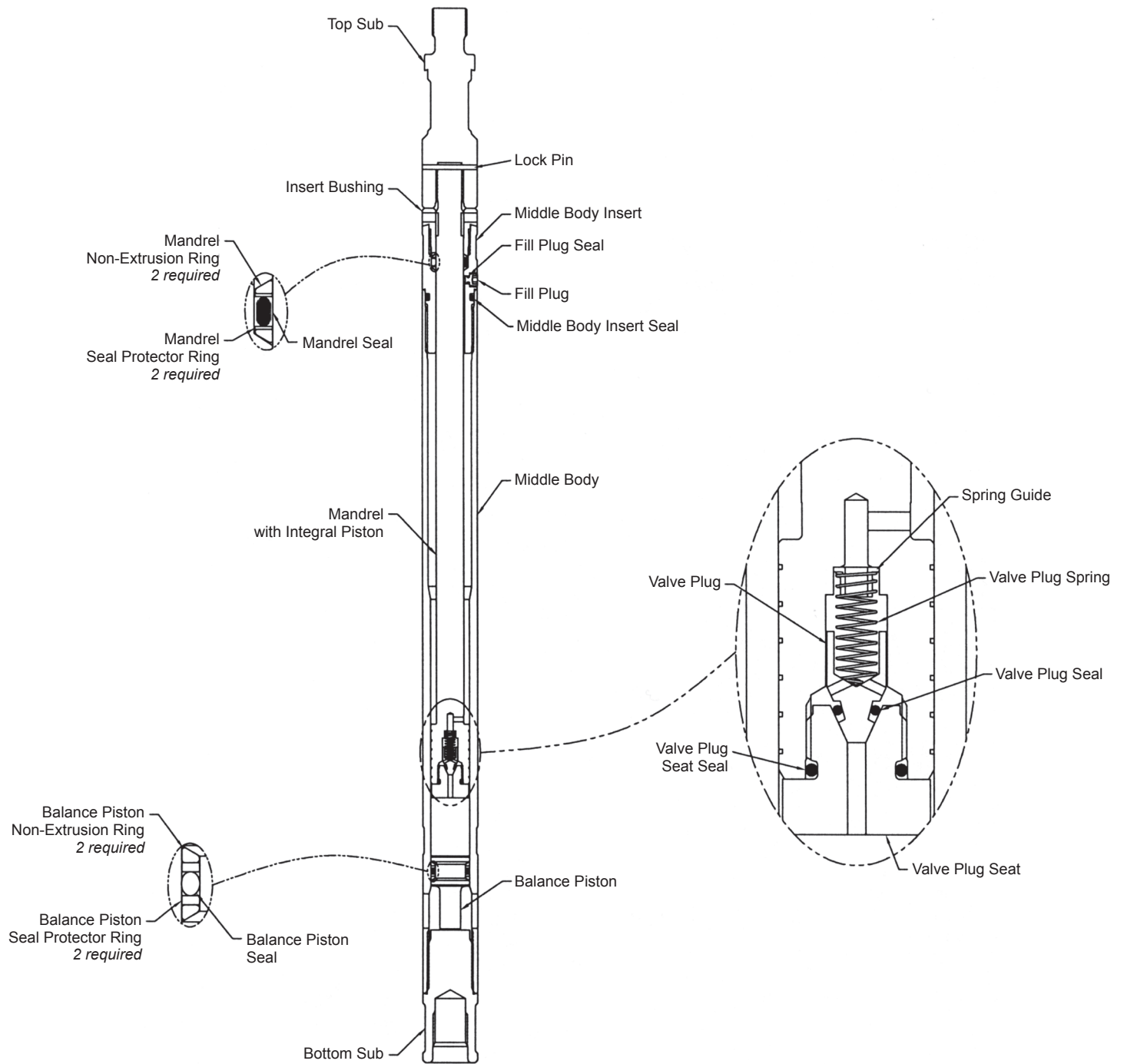


**HYDRAULIC WIRELINE JARS**



## 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 Logan 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

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

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

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- (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

# LOGAN GENERAL CATALOG

OIL TOOLS

## HYDRAULIC WIRELINE JARS

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

## ACCESSORIES

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

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

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**Recommended Spare Parts:**

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- (2) 2 Valve Plugs
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- (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

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

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### Recommended Spare Parts:

- (1) 1 Balanced Piston
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- (5) 6 Mandrel Non-Extrusion Rings
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- (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				
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No. 700-1163</b>	<b>700-006</b>				
	Bowen No. 11550	...				
<b>VITON O-RING PACKING SET</b>	<b>Logan Part No. 28000-012</b>	<b>28000-013</b>				
Consists of:	Bowen No. 11553	...				
<b>MANDREL SEAL</b>	<b>Logan Part No. 568-216</b>	<b>568-222</b>				
	Bowen No. 568216	568222				
<b>BALANCE PISTON SEAL</b>	<b>Logan Part No. 568-219</b>	<b>568-325</b>				
	Bowen No. 568219	568325				
<b>MIDDLE BODY</b>	<b>Logan Part No. 568-223</b>	<b>568-226</b>				
<b>INSERT SEAL (LARGE)</b>	Bowen No. 568223	568226				
<b>MIDDLE BODY</b>	<b>Logan Part No. 568-211</b>	<b>568-224</b>				
<b>INSERT SEAL (SMALL)</b>	Bowen No. 568211	568224				
<b>VALVE PLUG SEAL</b>	<b>Logan Part No. 568-007</b>	<b>568-007</b>				
	Bowen No. 568007	568007				
<b>VALVE PLUG</b>	<b>Logan Part No. 568-112</b>	<b>568-112</b>				
<b>SEAT SEAL</b>	Bowen No. 568112	568112				
<b>FILL PLUG SEAL</b>	<b>Logan Part No. 568-006</b>	<b>568-006</b>				
	Bowen No. 568006	568006				

## ACCESSORIES

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

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