

PRODUCT LINE

Fishing & Intervention | Stroking
Tools | Jars & Energizers

PRODUCT

Superior Hydraulic Fishing Jars



OVERVIEW

The Logan Superior Hydraulic Jar is a straight pull, up only, jarring tool that utilizes a special valve section to meter oil from one side of the piston to the other side. This allows for controlled jarring action during stuck fish recovery. The straight pull load applied by the operator controls the intensity of the jarring blow. The downhole jarring blow is infinitely adjustable without any rig floor adjustments necessary prior to the run. Impact of each blow can be varied by simply changing the pull load.

The Logan Superior Hydraulic Jar is well-suited for milling and washover operations due to its large mandrel design. Since the Jar will not interfere with test equipment, it is also ideal for use in drill stem testing. The seals used in the Logan Superior Hydraulic Jar can handle higher pressures than those normally encountered in drill stem testing.

Among its many uses, the Logan Superior Hydraulic Jar is also ideal for jarring and freeing open-hole or hook-wall packers that have become stuck. With comparatively moderate pull, the Logan Superior Hydraulic Jar can also deliver sufficient impact to break a core.

CONSTRUCTION

The Jar's operating chambers are sealed and isolated from each other to prevent contamination of the metering section of the Jar and the surrounding well areas.

Logan Superior Hydraulic Jars are hydrostatically pressure balanced and provide maximum inside diameters for passage of wireline tools.

ASSEMBLY

The Logan Superior Hydraulic Jar is shipped in the closed (cocked) position. The Jar should not be left suspended from the elevator in this position, especially with any weight suspended below it, as the Jar may accidentally fire and cause rig damage or bodily harm.

The Logan Superior Hydraulic Jar should be carefully opened and assembled in the string below the concentrated mass such as drill collars and heavyweight drill pipe.

OPERATION

For maximum effectiveness, it is recommended that the Logan Superior Hydraulic Jar be run in combination with a Logan Superior Energizer.

The Logan Superior Hydraulic Jar should be carefully examined prior to use to ensure it has been properly assembled and filled with jar oil. The tool should be tested in a jar tester prior to field use. All connections should be checked to ensure that they have been tightened to the proper torque.

At no time during the pull cycle should the maximum load be exceeded (see Strength Data Charts for pull loads). It is recommended that the operator use a low initial pull load – 30 to 50% of the maximum load – so the effects of the jarring action can be reviewed before the jarring load is increased.

When ordering, please specify:

- Name and number of assembly or part
- Casing O.D.
- Size and type of connection

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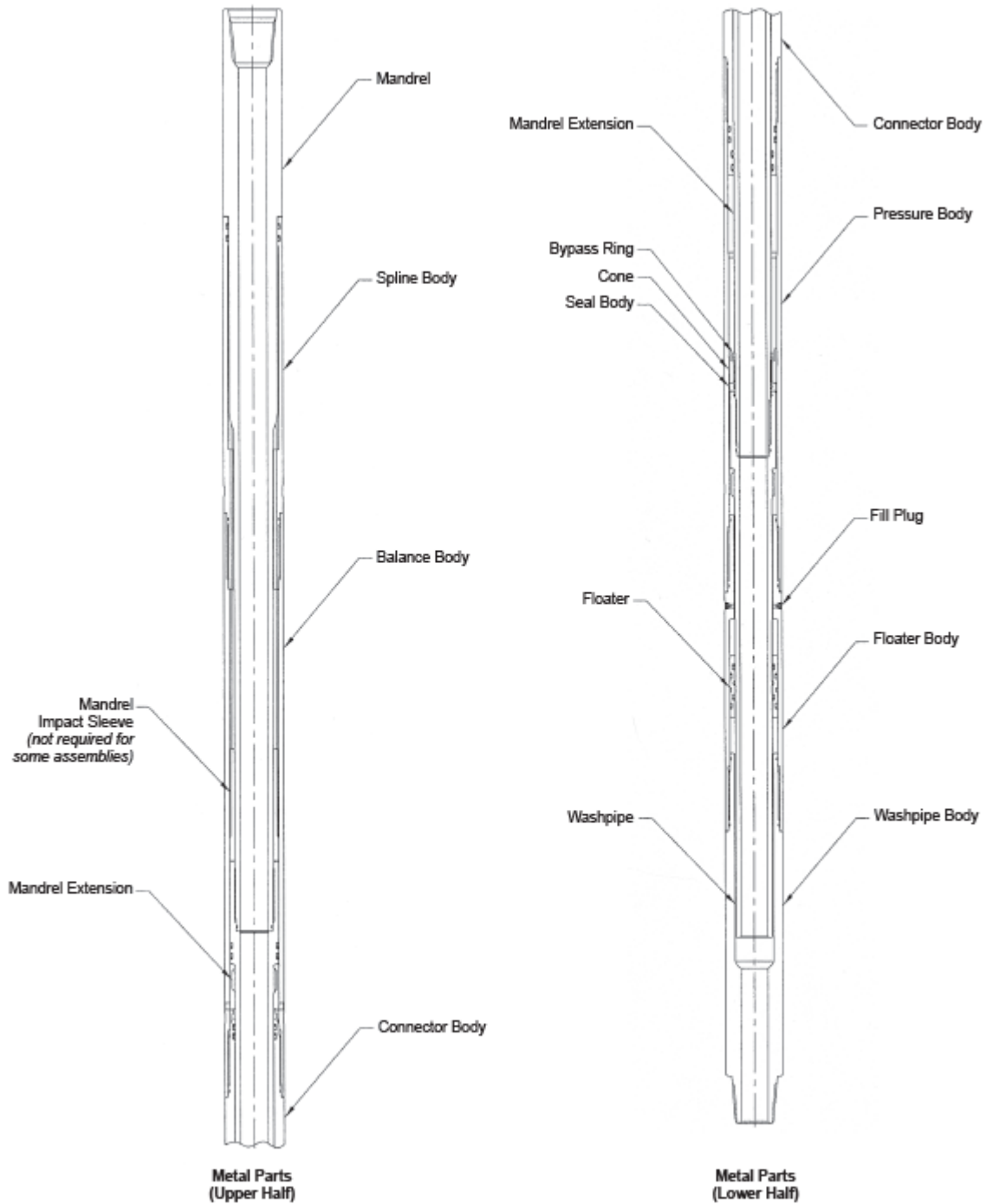
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LOGAN FISHING TOOLS



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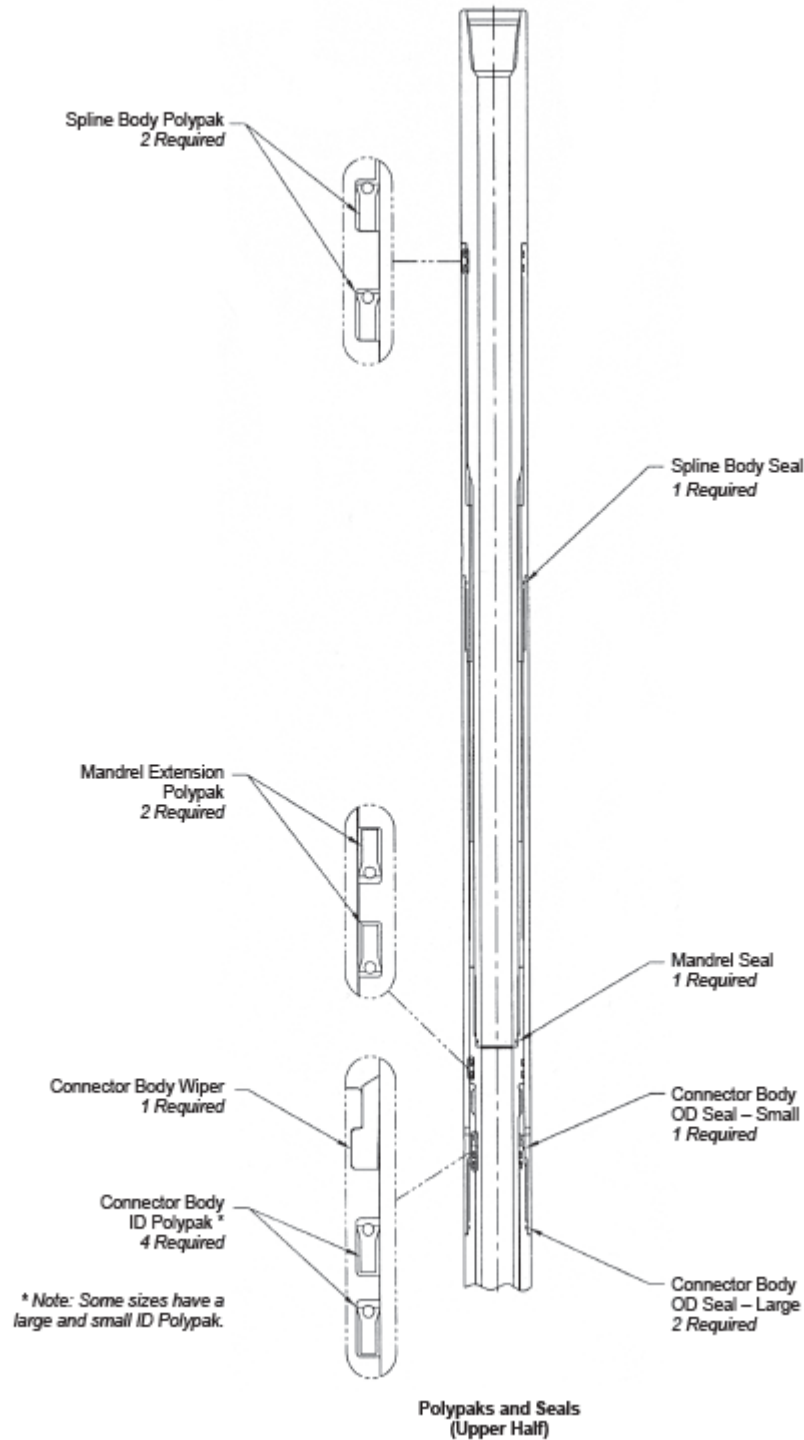
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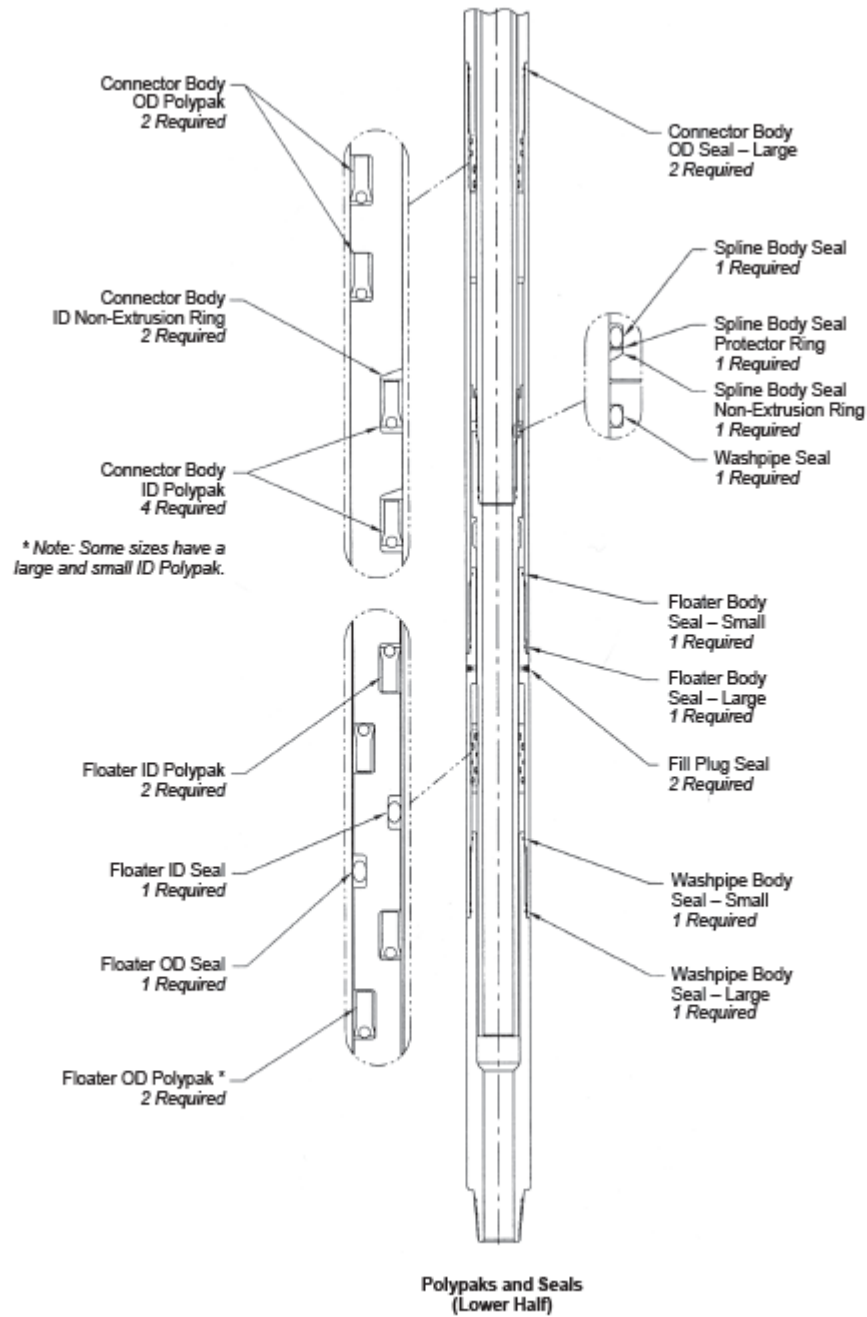
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Tool Joint Connection	2-3/8 API EUE	2-3/8 API Reg	2-7/8 PAC	2-3/8 API IF	2-7/8 API Reg	2-3/8 API EUE	2-7/8 API IF	
Outside Diameter (inches)	3-1/6	3-1/8	3-1/8	3-3/4	3-3/4	3-3/4	4-1/4	
Inside Diameter (inches)	1-1/2	1	1-1/2	1-1/2	1-1/4	1-7/8	2	
Complete Assembly	Logan Part No.	611-306	611-312	611-313	611-375	611-377	611-376	611-425
Component Parts								
Mandrel	Logan Part No.	BD15	BD10	BD15	BD11	BD11	BD18	BD16
Mandrel Seal	Logan Part No.	-	-	-	568-225	568-225	-	568-229
	No. Req'd	-	-	-	1	1	-	1
Mandrel Extension	Logan Part No.	BD25	BD20	BD25	BD21	BD21	BD28	BD26
Mandrel Extension Seal	Logan Part No.	568-225	568-224	568-225	-	-	568-229	-
	No. Req'd	1	1	1	-	-	1	-
Mandrel Extension Polypak	Logan Part No.	BD205-2	BD205-2	BD205-2	BD201-2	BD201-2	AQ29003	BX144-3
	No. Req'd	1	2	1	2	2	2	2
Mandrel Extension Wiper	Logan Part No.	-	-	-	-	-	-	-
	No. Req'd	-	-	-	-	-	-	-
Mandrel Impact Sleeve	Logan Part No.	BD35	BD30	BD35	-	-	-	-
Spline Body	Logan Part No.	BD45	BD40	BD45	BD41	BD41	BD48	BD46
Spline Body Seal	Logan Part No.	568-230	568-230	568-230	568-234	568-234	568-235	568-238
	No. Req'd	1	1	1	1	1	1	1
Spline Body Polypak	Logan Part No.	BD205-1	BD205-1	BD205-1	BD202-3	BD202-3	BX144-3	BD202-2
	No. Req'd	2	2	2	2	2	2	2
Balance Body	Logan Part No.	BD55	BD50	BD55	BD51	BD51	BD58	BD56
Connector Body	Logan Part No.	BD65	BD60	BD65	BD61	BD61	BD68	BD66
Connector Body Seal (Large)	Logan Part No.	568-230	568-230	568-230	568-234	568-234	568-235	568-238
	No. Req'd	2	2	2	2	2	2	2
Connector Body Seal (Small)	Logan Part No.	568-228	568-228	568-228	568-232	568-232	568-233	568-236
	No. Req'd	2	2	2	1	1	1	1
Connector Body Wiper	Logan Part No.	-	-	-	BD71	BD71	BD78	BD76
Connector Body ID Polypak (Small)	Logan Part No.	BD205-3	BD200-3	BD205-3	BD201-3	BD201-3	BD208-3	AQ29003
	No. Req'd	3	3	3	4	4	4	4
Connector Body ID Polypak (Large)	Logan Part No.	-	-	-	-	-	-	-
	No. Req'd	-	-	-	-	-	-	-
Connector Body OD Polypak	Logan Part No.	-	-	-	AQ29003	AQ29003	AQ29003	BX144-3
	No. Req'd	-	-	-	2	2	2	2
Connector Body Seal Protector Ring	Logan Part No.	8-228	8-228	8-228	L375-34	L375-34	L375-36	-
	No. Req'd	2	2	2	2	2	2	-
Connector Body ID Non-Extrusion Ring	Logan Part No.	L365-32	L365-30	L365-32	BD231	BD231	L365-36	BD236
	No. Req'd	1	2	1	2	2	2	2
Connector Body ID Non-Extrusion Ring Setting Tool	Logan Part No.	**	AG100-30.13	**	**	**	**	**
Connector Body OD Non-Extrusion Ring (Large)	Logan Part No.	-	BD240	-	-	-	-	-
	No. Req'd	-	1	-	-	-	-	-
Connector Body OD Non-Extrusion Ring (Small)	Logan Part No.	L366-33.5	BD250	L366-33.5	-	-	-	-
	No. Req'd	2	1	2	-	-	-	-
Pressure Body	Logan Part No.	BD85	BD80	BD85	BD81	BD81	BD88	BD86

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Tool Joint Connection	2-3/8 API EUE	2-3/8 API Reg	2-7/8 PAC	2-3/8 API IF	2-7/8 API Reg	2-3/8 API EUE	2-7/8 API IF	
Outside Diameter (inches)	3-1/6	3-1/8	3-1/8	3-3/4	3-3/4	3-3/4	4-1/4	
Inside Diameter (inches)	1-1/2	1	1-1/2	1-1/2	1-1/4	1-7/8	2	
Complete Assembly	Logan Part No.	611-306	611-312	611-313	611-375	611-377	611-376	611-425
Component Parts								
Floater Body	Logan Part No.	BD95	BD90	BD95	BD91	BD91	BD98	BD96
Floater Body Seal (Large)	Logan Part No.	568-230	568-230	568-230	568-234	568-234	568-235	568-238
	No. Req'd	1	1	1	1	1	1	1
Floater Body Seal (Small)	Logan Part No.	568-228	568-228	568-228	568-232	568-232	568-233	568-236
	No. Req'd	1	1	1	1	1	1	1
Floater Body Fill Plug	Logan Part No.	AG10002	AG10002	AG10002	AG10002	AG10002	AG10002	AG10002

For more information: visit www.innovex-inc.com or contact your local sales office
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Floater Body Fill Plug Seal	No. Req'd	2	2	2	2	2	2	2
	Logan Part No.	568-006	568-006	568-006	568-006	568-006	568-006	568-006
	No. Req'd	2	2	2	2	2	2	2
Floater	Logan Part No.	BD115	BD110	BD115	BD111	BD111	BD118	BD116
Floater Seal (Large)	Logan Part No.	568-228	568-228	568-228	568-232	568-232	568-233	568-236
	No. Req'd	3	1	3	1	1	1	1
Floater Seal (Small)	Logan Part No.	568-226	568-224	568-226	568-228	568-230	568-230	568-232
	No. Req'd	3	1	3	1	1	1	1
Floater OD Polypak	Logan Part No.	-	BD200-4	-	BD201-2	BD201-2	AQ29003	BX144-3
	No. Req'd	-	2	-	2	2	2	2
Floater ID Polypak	Logan Part No.	-	BD200-3	-	BD201-3	BD201-3	BD208-3	AQ29003
	No. Req'd	-	2	-	2	2	2	2
Floater OD Parbak Ring	Logan Part No.	-	-	-	8-232	8-232	-	-
	No. Req'd	-	-	-	1	1	-	-
Floater ID Parbak Ring	Logan Part No.	8-226	-	8-226	8-228	8-228	-	-
	No. Req'd	3	-	3	1	1	-	-
Floater Positioning Tool	Logan Part No.	BD295	BD290	BD295	BD291	BD291	BD298	BD296
Seal Body	Logan Part No.	BD125	BD120	BD125	BD121	BD121	BD128	BD126
Seal Body Seal	Logan Part No.	568-225	568-130	568-225	568-227	568-227	568-143	568-231
	No. Req'd	1	1	1	1	1	1	1
Non-Extrusion Ring	Logan Part No.	BD265-001	BD260	L365-30.25	L370-5	L370-5	BD268	L370-9
	No. Req'd	1	1	1	1	1	1	1
Seal Protector Ring	Logan Part No.	BD285-001	8-130	L375-30.25	8-227	8-227	8-143	L376-9
	No. Req'd	1	1	1	1	1	1	1
Setting Tool	Logan Part No.	AG1000-30.25	AG1000-29.25	AG1000-30.25	AG1000-33.5	AG1000-33.5	AG1000-35.5	AG1000-37
Cone	Logan Part No.	BD135	BD130	BD135	BD131	BD131	BD138	BD136
Bypass Ring	Logan Part No.	BD155	BD150	BD155	BD151	BD151	BD158	BD156
Washpipe	Logan Part No.	BD165	BD160	BD165	BD161	BD161	BD168	BD166
Washpipe Seal (Large)	Logan Part No.	-	568-130	-	568-227	568-227	568-143	568-231
	No. Req'd	-	1	-	1	1	1	1
Washpipe Seal (Small)	Logan Part No.	568-224	568-221	568-224	568-225	568-225	568-228	568-229
	No. Req'd	1	1	1	1	1	1	1
Washpipe Body	Logan Part No.	BD175	BD170	BD175	BD171	BD171	BD178	BD176
Washpipe Body Seal (Large)	Logan Part No.	568-230	568-230	568-230	568-234	568-234	568-235	568-235
	No. Req'd	1	1	1	1	1	1	1
Washpipe Body Seal (Small)	Logan Part No.	568-228	568-228	568-228	568-232	568-232	568-233	568-236
	No. Req'd	1	1	1	1	1	1	1

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Tool Joint Connection		2-3/8 API EUE	2-3/8 API Reg	2-7/8 PAC	2-3/8 API IF	2-7/8 API Reg	2-3/8 API EUE	2-7/8 API IF
Outside Diameter (inches)		3-1/6	3-1/8	3-1/8	3-3/4	3-3/4	3-3/4	4-1/4
Inside Diameter (inches)		1-1/2	1	1-1/2	1-1/2	1-1/4	1-7/8	2
Complete Assembly	Logan Part No.	611-306	611-312	611-313	611-375	611-377	611-376	611-425
Component Parts								
Redress Kits*	Logan Part No.	BD185	BD180	BD185	BD181	BD81	BD188	BD186
Complete O-Ring Kit	Logan Part No.	BD195	BD190	BD195	BD191	BD191	BD198	BD196
Complete Polypak Kit	Logan Part No.	BD205	BD200	BD205	BD201	BD201	BD208	BD206
<i>Consists of</i>								
Spline Body	Logan Part No.	BD205-1	BD205-1	BD205-1	BD202-3	BD202-3	BX144-3	BD202-2
Polypak	No. Req'd	2	2	2	2	2	2	2
Mandrel Extension	Logan Part No.	BD205-2	BD205-2	BD205-2	BD201-2	BD201-2	AQ290003	BX144-3
Polypak	No. Req'd	1	2	1	2	2	2	2
Connector Body ID	Logan Part No.	BD205-3	BD200-3	B205-3	BD201-3	BD201-3	BD208-3	AQ29003
Polypak (Small)	No. Req'd	3	3	3	4	4	4	4
Connector Body ID	Logan Part No.	-	-	-	-	-	-	-
Polypak (Large)	No. Req'd	-	-	-	-	-	-	-
Connector Body OD	Logan Part No.	-	-	-	AQ29003	AQ29003	AQ29003	BX144-3
Polypak	No. Req'd	-	-	-	2	2	2	2
Floater OD Polypak	Logan Part No.	-	BD204-4	-	BD201-2	BD201-2	AQ29003	BX144-3
	No. Req'd	-	2	-	2	2	2	2
Floater ID Polypak	Logan Part No.	-	BD200-3	-	BD201-3	BD201-3	BD208-6	BD206-6
	No. Req'd	-	2	-	2	2	2	2
Mandrel Extension	Logan Part No.	BD205-6	BD200-6	BD205-6	BD201-6	BD201-6	BD208-6	BD206-6
Assembly Sleeve†	No. Req'd	1	1	1	1	1	1	1
<hr/>								
Jar Lube	Logan Part No.	49842-A	49842-B	49842-C	49842-D	-	-	-
	Bowen No.	49842-A	49842-B	49842-C	49842-D	-	-	-
		1 Gallon	5 Gallons	20 Gallons	55 Gallons	-	-	-

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* Redress Kits include O-Ring Packing Sets, Polypak Kits, and Connector Body Wipers

** To be advised by engineering

† Mandrel Extension Assembly Sleeve is not included in the Redress Kit. Must be purchased separately.

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Casing O.D.

Size and type of connection



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Tool Joint Connection	2-7/8 API EUE	3-1/2 API IF	4-1/2 API IF	6-5/8 API Reg		
Outside Diameter (inches)	4-1/2	4-3/4	6-1/4	7-3/4		
Inside Diameter (inches)	2-3/8	2-1/4	2-1/4	3-1/16		
Complete Assembly	Logan Part No.	611-450	611-475	611-625	611-775	
Component Parts						
Mandrel	Logan Part No.	BD19	BD12	BD13	BD14	
Mandrel Seal	Logan Part No.	568-238	568-232	568-236	568-348	
	No. Reqd	1	1	1	1	
Mandrel Extension	Logan Part No.	BD29	BD22	BD23	BD24	
Mandrel Extension Seal	Logan Part No.	-	-	568-234	568-341	
	No. Reqd	-	-	1	1	
Mandrel Extension Polypak	Logan Part No.	BD209-2	BD202-2	BD203-2	BD204-2	
	No. Reqd	2	2	2	2	
Mandrel Extension Wiper	Logan Part No.	-	-	BD223	BD224	
	No. Reqd	-	-	-	1	
Mandrel Impact Sleeve	Logan Part No.	-	BD32	-	-	
Spline Body	Logan Part No.	BD49	BD42	BD43	BD44	
Spline Body Seal	Logan Part No.	568-240	568-242	568-250	568-362	
	No. Reqd	1	1	1	1	
Spline Body Polypak	Logan Part No.	BD209-1	BD202-1	BD203-1	BD204-1	
	No. Reqd	2	2	2	2	
Balance Body	Logan Part No.	BD59	BD52	BD53	BD54	
Connector Body	Logan Part No.	BD69	BD62	BD63	BD64	
Connector Body Seal (Large)	Logan Part No.	568-240	568-242	568-253	568-362	
	No. Reqd	2	2	2	2	
Connector Body Seal (Small)	Logan Part No.	568-239	568-239	568-250	568-361	
	No. Reqd	1	1	1	1	
Connector Body Wiper	Logan Part No.	BD79	BD72	BD73	BD74	
Connector Body ID Polypak (Small)	Logan Part No.	BX144-3	BD202-3	BD203-3	-	
	No. Reqd	4	2	4	-	
Connector Body ID Polypak (Large)	Logan Part No.	-	BD202-4	-	BD204-3	
	No. Reqd	-	2	-	4	
Connector Body OD Polypak	Logan Part No.	BD209-4	BD202-5	BD203-5	BD204-2	
	No. Reqd	2	2	2	2	
Connector Body Seal Protector Ring	Logan Part No.	L375-41	-	-	BD274	
	No. Reqd	2	-	-	2	
Connector Body ID Non-Extrusion Ring	Logan Part No.	L365-41	BD232	BD233	BD234	
	No. Reqd	2	2	2	2	
Connector Body ID Non-Extrusion Ring Setting Tool	Logan Part No.	**	AG1000-40	**	AG1000-52	
Connector Body OD Non-Extrusion Ring (Large)	Logan Part No.	-	-	-	-	
	No. Reqd	-	-	-	-	
Connector Body OD Non-Extrusion Ring (Small)	Logan Part No.	-	-	-	-	
	No. Reqd	-	-	-	-	
Pressure Body	Logan Part No.	BD89	BD82	BD83	BD84	

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		2-7/8 API EUE	3-1/2 API IF	4-1/2 API IF	6-5/8 API Reg		
Tool Joint Connection		4-1/2	4-3/4	6-1/4	7-3/4		
Outside Diameter (inches)		2-3/8	2-1/4	2-1/4	3-1/16		
Inside Diameter (inches)							
Complete Assembly	611-450	611-450	611-475	611-625	611-775		
Component Parts							
Floater Body	Logan Part No.	BD99	BD92	BD93	BD94		
Floater Body Seal	Logan Part No.	568-240	568-242	568-253	568-362		
(Large)	No. Req'd	1	1	1	1		
Floater Body Seal	Logan Part No.	568-238	568-239	568-250	568-361		
(Small)	No. Req'd	1	1	1	1		
Floater Body Fill Plug	Logan Part No.	AG10002	AG10002	AG10002	AG10002		
	No. Req'd	2	2	2	2		
Floater Body Fill Plug Seal	Logan Part No.	568-006	568-006	568-006	568-006		
	No. Req'd	2	2	2	2		
Floater	Logan Part No.	BD119	BD112	BD113	BD114		
Floater Seal (Large)	Logan Part No.	568-238	568-341	568-351	568-361		
	No. Req'd	2	2	2	2		
Floater Seal (Small)	Logan Part No.	568-235	568-337	568-343	568-349		
	No. Req'd	1	1	1	1		
Floater OD Polypak	Logan Part No.	BD209-2	BD202-2	BD203-2	BD204-4		
	No. Req'd	2	2	2	2		
Floater ID Polypak	Logan Part No.	BX144-3	BD202-3	BD203-3	BD204-3		
	No. Req'd	2	2	2	2		
Floater OD Parbak Ring	Logan Part No.	-	-	-	-		
	No. Req'd	-	-	-	-		
Floater ID Parbak Ring	Logan Part No.	-	-	-	-		
	No. Req'd	-	-	-	-		
Floater Positioning Tool	Logan Part No.	BD299	BD292	BD293	BD294		
Seal Body	Logan Part No.	BD129	BD122	BD123	BD124		
Seal Body Seal	Logan Part No.	568-234	568-234	568-341	568-347		
	No. Req'd	1	1	1	1		
Non-Extrusion Ring	Logan Part No.	L370-12	L370-12	L365-44	BD264		
	No. Req'd	1	1	1	1		
Seal Protector Ring	Logan Part No.	L376-12	L388-12	L375-44	BD284		
	No. Req'd	1	1	1	1		
Setting Tool	Logan Part No.	AG1000-38	AG1000-40	AG1000-44	AG1000-50		
Cone	Logan Part No.	BD139	BD132	BD133	BD134		
Bypass Ring	Logan Part No.	BD159	BD152	BD153	BD154		
Washpipe	Logan Part No.	BD169	BD162	BD163	BD164		
Washpipe Seal (Large)	Logan Part No.	568-234	568-234	568-238	568-347		
	No. Req'd	1	1	1	1		
Washpipe Seal (Small)	Logan Part No.	569-232	568-232	-	-		
	No. Req'd	1	1	-	-		
Washpipe Body	Logan Part No.	BD179	BD172	BD173	BD174		
Washpipe Body Seal	Logan Part No.	568-240	568-242	568-253	568-362		
(Large)	No. Req'd	1	1	1	1		
Washpipe Body Seal	Logan Part No.	568-238	568-239	568-250	568-361		
(Small)	No. Req'd	1	1	1	1		

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Tool Joint Connection		2-7/8 API EUE	3-1/2 API IF	4-1/2 API IF	5-1/2 API Reg	6-5/8 API Reg		
Outside Diameter (inches)		4-1/2	4-3/4	6-1/4	6-3/4	7-3/4		
Inside Diameter (inches)		2-3/8	2-1/4	2-1/4	2-3/4	3-1/16		
Complete Assembly	Logan Part No.	611-450	611-475	611-625	611-675	611-775		
Component Parts								
Redress Kits*	Logan Part No.	BD189	BD182	BD183	-	BD184		
Complete O-Ring Kit	Logan Part No.	BD199	BD192	BD193	-	BD194		
Complete Polypak Kit	Logan Part No.	BD209	BD202	BD203	BD207	BD204		
<i>Consists of</i>								
Spline Body	Logan Part No.	BD209-1	BD202-1	BD203-1	**	BD204-1		
Polypak	No. Reqd	2	2	2	-	2		
Mandrel Extension	Logan Part No.	BD209-2	BD202-2	BD203-2	**	BD204-2		
Polypak	No. Reqd	2	2	2	-	2		
Connector Body ID	Logan Part No.	BX144-3	BD202-3	BD203-3	**	BD204-3		
Polypak (Small)	No. Reqd	4	2	4	-	4		
Connector Body ID	Logan Part No.	-	BD202-4	-	**	-		
Polypak (Large)	No. Reqd	-	2	-	-	-		
Connector Body OD	Logan Part No.	BD209-4	BD202-5	BD203-5	**	BD204-2		
Polypak	No. Reqd	2	2	2	-	2		
Floater OD Polypak	Logan Part No.	BD209-2	BD202-2	BD203-2	**	BD204-4		
	No. Reqd	2	2	2	-	2		
Floater ID Polypak	Logan Part No.	BX144-3	BD202-3	BD203-3	**	BD204-3		
	No. Reqd	2	2	2	-	2		
Mandrel Extension	Logan Part No.	BD209-6	BD202-6	BD203-6	**	BD204-6		
Assembly Sleeve†	No. Reqd	1	2	1	-	1		
<hr/>								
Jar Lube	Logan Part No.	49842-A	49842-B	49842-C	49842-D	-		
	Bowen No.	49842-A	49842-B	49842-C	49842-D	-		
		1 Gallon	5 Gallons	20 Gallons	55 Gallons	-		

Innovex reserves the right to change or discontinue designs without prior notice.

** To be advised by engineering

† Mandrel Extension Assembly Sleeve is not included in the Redress Kit. Must be purchased separately.

When ordering, please specify:

Name and number of assembly or part

Casing O.D.

Size and type of connection



PRODUCT LINE

Fishing & Intervention | Stroking
Tools | Jars & Energizers

PRODUCT

Superior Hydraulic Fishing Jars



CHART A - SPECIFICATIONS

Complete Assembly	611-306	611-312	611-313	611-375	611-377	611-376
Outside Diameter (inches)	3-1/16	3-1/8	3-1/8	3-3/4	3-3/4	3-3/4
Inside Diameter (inches)	1-1/2	1	1-1/2	1-1/2	1-1/4	1-7/8
Connection	2-3/8 API EUE	2-3/8 API Reg	2-7/8 PAC	2-3/8 API IF	2-7/8 API Reg	2-3/8 API EUE
Length (feet and inches)	10' 0"	10' 0"	10' 0"	12' 8"	12' 8"	12' 8"
Stroke (inches)	10	10	10	10	10	10
Floater Position (inches)	^	^	^	^	^	^
Standard Temperature	8	8	8	9	9	8-3/4
High Temperature	9-3/4	9-3/4	9-3/4	11	11	10-3/4
Drill Collar Weight Range (lbs)	300 to 4,000	300 to 4,000	300 to 4,000	400 to 6,000	400 to 6,000	400 to 6,000
Pump Open Area (sq in)	3	3	3	4	4	4

^Measured distance from Floater to end of Floater Body

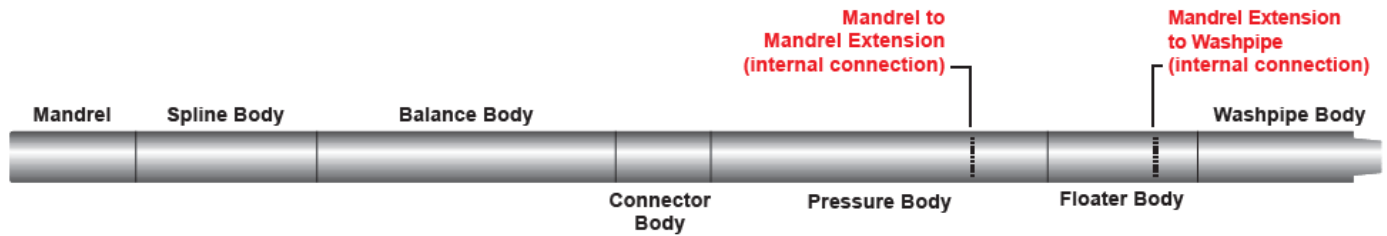
CHART B – STRENGTH AND TEST DATA

Complete Assembly	611-306	611-312	611-313	611-375	611-377	611-376
Jar Tester Low Test Pull Load Min/Max (lbs)	7,000/12,000	9,000/12,000	7,000/12,000	12,000/16,000	12,000/16,000	12,000/16,000
Jar Tester Standard Pull Test (lbs)	18,000	30,000	18,000	35,000	35,000	35,000
Field Load – Max Pull Load	36,000	55,000	36,000	72,000	72,000	51,000
Lift Load After Jarring – Jar Fully Extended Tensile @ Yield (lbs)	185,000	253,000	185,000	330,000	330,000	285,000
Torque @ Yield (ft-lbs)	4,200	7,500	4,200	14,500	14,500	9,650

CHART C – RECOMMENDED TIGHTENING TORQUES (FT-LBS)

Complete Assembly	611-306	611-312	611-313	611-375	611-377	611-376
Spline Body to Balance Body	2,100	2,700	2,100	3,500	3,650	3,500
Balance Body to Connector Body	2,100	2,700	2,100	3,500	3,650	3,500
Connector Body to Pressure Body	2,100	2,700	2,100	3,500	3,650	3,500
Mandrel to Mandrel Extension	500	600	500	700	700	700
Pressure Body to Floater Body	2,100	2,700	2,100	3,500	3,650	3,500
Mandrel Extension to Washpipe	500	600	500	700	700	700
Floater Body to Washpipe Body	2,100	2,700	2,100	3,500	3,650	3,500

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PRODUCT LINE

Fishing & Intervention | Stroking
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PRODUCT

Superior Hydraulic Fishing Jars



CHART A - SPECIFICATIONS

Complete Assembly	611-425	611-450	611-475	611-625	611-775
Outside Diameter (inches)	4-1/4	4-1/2	4-3/4	6-1/4	7-3/4
Inside Diameter (inches)	2	2-3/8	2-1/4	2-1/4	3
Connection	2-7/8 API IF	2-7/8 API EUE	3-1/2 API IF	4-1/2 API IF	6-5/8 API Reg
Length (feet and inches)	13' 6"	13' 6"	13' 6"	13' 6"	15' 0"
Stroke (inches)	12	12	12	12	12
Floater Position (inches)	^	^	^	^	^
Standard Temperature	9	9	10-3/4	10-3/4	11
High Temperature	11	11	11-1/2	11-1/2	12-1/2
Drill Collar Weight Range (lbs)	400 to 6,000	400 to 4,000	500 to 8,000	8,500 to 15,000	12,200 to 21,000
Pump Open Area (sq in)	6	7-1/2	7	11	16

^Measured distance from Floater to end of Floater Body

CHART B – STRENGTH AND TEST DATA

Complete Assembly	611-425	611-450	611-475	611-625	611-775
Jar Tester Low Test Pull Load Min/Max (lbs)	12,000/16,000	12,000/16,000	15,000/20,000	18,000/26,000	18,000/26,000
Jar Tester Standard Pull Test (lbs)	35,000	30,000	50,000	100,000	100,000
Field Load – Max Pull Load	75,000	60,000	100,000	200,000	275,000
Lift Load After Jarring – Jar Fully Extended Tensile @ Yield (lbs)	375,000	360,000	505,000	1,000,000	1,600,000
Torque @ Yield (ft-lbs)	18,500	12,000	18,100	40,800	79,000

CHART C – RECOMMENDED TIGHTENING TORQUES (FT-LBS)

Complete Assembly	611-425	611-450	611-475	611-625	611-775
Spline Body to Balance Body	5,000	5,000	9,090	20,000	39,000
Balance Body to Connector Body	5,000	5,000	9,090	20,000	39,000
Connector Body to Pressure Body	5,000	5,000	9,090	20,000	39,000
Mandrel to Mandrel Extension	1,500	1,500	1,800	7,000	12,500
Pressure Body to Floater Body	5,000	5,000	9,090	20,000	39,000
Mandrel Extension to Washpipe	1,500	1,500	1,000	4,800	10,500
Floater Body to Washpipe Body	5,000	5,000	9,090	20,000	39,000

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