



Full Circle Spear Slip Range for Drill Pipe and Tubing

FISH SIZE		2-3/8 DP	2-3/8 DP	2-3/8 Tbg	2-7/8 DP	2-7/8 DP	2-7/8 DP	2-7/8 Tbg
WEIGHT (LBS/FT)		6.65	4.8, 4.6	4.7, 4.6, 4.0	10.4	8.35	6.45	6.5, 6.4
SPEAR ASSEMBLY	Logan Part No.	204-000	204-000	204-001	204-002	204-002	204-002	204-003
	Bowen No.	6175	6175	6693	6246	6246	6246	6684
SLIP SIZE STAMPED		1-13/16	2	2-1/32	2-5/32	2-11/32	2-1/2	2-7/16
	Logan Part No.	AV4000	AV4000	AV4001	AV4002	AV4002	AV4002	AV4003
	Bowen No.	6178	6178	6695	6249	6249	6249	6686
SAFETY RING SIZE STAMPED		1-11/32	1-7/8	1-29/32	2	2-3/16	2-11/32	2-5/16
	Logan Part No.	AV17000	AV17000	AV17001	AV17002	AV17002	AV17002	AV17003
	Bowen No.	6547	6547	6545	6543	6543	6543	6424
SAFETY RING PACK-OFF SIZE STAMPED		1-11/32	1-7/8	1-29/32	2	2-3/16	2-11/32	2-5/16
	Logan Part No.	AV25000	AV25000	AV25001	AV25002	AV25002	AV25002	AV25003
	Bowen No.	6181	6181	6174	6252	6252	6252	5779

FISH SIZE		3-1/2 DP	3-1/2 DP	3-1/2 DP	3-1/2 DP	3-1/2 Tbg	3-1/2 Tbg	4 DP
WEIGHT (LBS/FT)		15.5	13.3	11.2	8.5	10.2, 9.3, 9.2	7.7	15.7
SPEAR ASSEMBLY	Logan Part No.	204-004	204-004	204-004	204-004	204-005	204-005	204-006
	Bowen No.	7640	7640	7640	7640	6701	6701	7648
SLIP SIZE STAMPED		2-5/8	2-25/32	2-15/16	3-3/32	2-31/32	3-1/8	3-9/32
	Logan Part No.	AV4004	AV4004	AV4004	AV4004	AV4005	AV4005	AV4006
	Bowen No.	C7642	C7642	C7642	C7642	6704	6704	7650
FRICITION BLOCK SIZE STAMPED		...	...	...	...	...	...	...
	Logan Part No.	...	...	...	...	...	...	AV12000
	Bowen No.	...	...	...	...	...	...	14934
SAFETY RING SIZE STAMPED		2-7/16	2-19/32	2-3/4	2-29/32	2-13/16	2-15/16	3-3/32
	Logan Part No.	AV17004	AV17004	AV17004	AV17004	AV17005	AV17005	AV17006
	Bowen No.	6541	6541	6541	6541	6707	6707	6681
SAFETY RING PACK-OFF SIZE STAMPED		2-7/16	2-19/32	2-3/4	2-29/32	2-13/16	2-15/16	3-3/32
	Logan Part No.	AV25004	AV25004	AV25004	AV25004	AV25005	AV25005	AV25006
	Bowen No.	6268	6268	6268	6268	6709	6709	6683

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FISH SIZE		4 DP	4 Tbg	4 Tbg	4-1/2 DP	4-1/2 DP	4-1/2 DP	5-1/2 DP
WEIGHT (LBS/FT)		14	11	9.5	20	18.1, 16.6	13.75, 12.75	24.7, 21.9
SPEAR ASSEMBLY	Logan Part No.	204-006	204-007	204-007	204-008	204-008	204-008	204-009
	Bowen No.	7648	6710	6710	6715	6715	6715	6723
SLIP SIZE STAMPED		3-11/32	3-1/2	3-19/32	3-11/16	3-7/8	4-1/32	4-3/4
	Logan Part No.	AV4006	AV4007	AV4007	AV4008	AV4008	AV4008	AV4009
	Bowen No.	7650	6712	6712	6717	6717	6717	6725
FRICITION BLOCK SIZE STAMPED		...	3-1/4	3-1/4	3-5/8	3-5/8	3-5/8	4-3/4
	Logan Part No.	AV12000	AV12001	AV12001	AV12002	AV12002	AV12002	AV12003
	Bowen No.	14934	14904	14904	14940	14940	14940	14840
SAFETY RING SIZE STAMPED		3-5/32	3-5/16	3-13/32	3-15/32	3-21/32	3-13/16	4-1/2
	Logan Part No.	AV17006	AV17007	AV17007	AV17008	AV17008	AV17008	AV17009
	Bowen No.	6681	6539	6539	6720	6720	6720	6485
SAFETY RING PACK-OFF SIZE STAMPED		3-5/32	3-5/16	3-13/32	3-15/32	3-21/32	3-13/16	4-1/2
	Logan Part No.	AV25006	AV25007	AV25007	AV25008	AV25008	AV25008	AV25009
	Bowen No.	6683	5730	5730	6722	6722	6722	6484

FISH SIZE		5-1/2 DP	5-1/2 DP	5-1/2 DP				
WEIGHT (LBS/FT)		25.25	22.2	19				
SPEAR ASSEMBLY	Logan Part No.	204-009	204-009	204-009				
	Bowen No.	6723	6723	6723				
SLIP SIZE STAMPED		4-3/4	4-7/8	5-1/16				
	Logan Part No.	AV4009	AV4009	AV4009				
	Bowen No.	6725	6725	6725				
FRICITION BLOCK SIZE STAMPED		4-3/4	4-3/4	4-3/4				
	Logan Part No.	AV12003	AV12003	AV12003				
	Bowen No.	14840	14840	14840				
SAFETY RING SIZE STAMPED		4-1/2	4-5/8	4-13/16				
	Logan Part No.	AV17009	AV17009	AV17009				
	Bowen No.	6485	6485	6485				
SAFETY RING PACK-OFF SIZE STAMPED		4-1/2	4-5/8	4-13/16				
	Logan Part No.	AV25009	AV25009	AV25009				
	Bowen No.	6484	6484	6484				

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Full Circle Spear Slip Range for Casing

FISH SIZE		4-1/2 Csg	4-1/2 Csg	4-3/4 Csg	5 Csg	5 Csg	5 Csg	5 Csg
WEIGHT (LBS/FT)		13.5, 11.6	9.5	16	21	18.0, 17.7	15	13.0, 11.5
SPEAR ASSEMBLY	Logan Part No.	204-010	204-010	204-010	204-011	204-011	204-011	204-011
	Bowen No.	10536	10536	10536	9337	9337	9337	9337
SLIP SIZE STAMPED		4	4-5/32	4-5/32	4-7/32	4-11/32	4-15/32	4-19/32
	Logan Part No.	AV4010	AV4010	AV4010	AV4011	AV4011	AV4011	AV4011
	Bowen No.	10538	10538	10538	9339	9339	9339	9339
FRICTION BLOCK SIZE STAMPED		4-1/2	...	4-1/2	4-5/8	...	...	...
	Logan Part No.	AV12004	...	AV12004	AV12005	...	...	...
	Bowen No.	14927	...	14927	14946	...	...	...
SAFETY RING SIZE STAMPED		3-25/32	3-15/16	3-15/16	4	4-1/8	4-1/4	4-3/8
	Logan Part No.	AV17010	AV17010	AV17010	AV17011	AV17011	AV17011	AV17011
	Bowen No.	6733	6733	6733	7581	7581	7581	7581
SAFETY RING PACK-OFF SIZE STAMPED		3-25/32	3-15/16	3-15/16	4	4-1/8	4-1/4	4-3/8
	Logan Part No.	AV25010	AV25010	AV25010	AV25011	AV25011	AV25011	AV25011
	Bowen No.	6734	6734	6734	A7583	A7583	A7583	A7583

FISH SIZE		5-1/2 Csg	5-1/2 Csg	5-1/2 Csg	5-3/4	5-3/4	6 Csg	6 Csg
WEIGHT (LBS/FT)		23	20, 17	15.5, 14, 13	22.5, 19.5	17, 14	23	20, 18
SPEAR ASSEMBLY	Logan Part No.	204-012	204-012	204-012	204-012	204-012	204-012	204-012
	Bowen No.	9342	9342	9342	9342	9342	9347	9347
SLIP SIZE STAMPED		4-3/4	4-7/8	5-1/16	5-1/16	5-5/16	5-5/16	5-7/16
	Logan Part No.	AV4012	AV4012	AV4012	AV4012	AV4012	AV4013	AV4013
	Bowen No.	9344	9344	9344	9344	9344	9349	9349
FRICTION BLOCK SIZE STAMPED		4-3/4	...	...	5-1/16	...	4-3/4	...
	Logan Part No.	AV12006	...	...	AV12006	...	AV12007	...
	Bowen No.	14840	...	...	14840	...	14953	...
SAFETY RING SIZE STAMPED		4-1/2	4-5/8	4-13/16	4-13/16	5-1/16	5-1/16	5-3/16
	Logan Part No.	AV17012	AV17012	AV17012	AV17012	AV17012	AV17013	AV17013
	Bowen No.	6485	6485	6485	6485	6485	6520	6520
SAFETY RING PACK-OFF SIZE STAMPED		4-1/2	4-5/8	4-13/16	4-13/16	5-1/16	5-1/16	5-3/16
	Logan Part No.	AV25009	AV25009	AV25009	AV25009	AV25009	AV25012	AV25012
	Bowen No.	6484	6484	6484	6484	6484	6041	6041

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FISH SIZE		6 Csg	6-5/8 Csg	6-5/8 Csg	6-5/8 Csg	7 Csg	7 Csg	7 Csg
WEIGHT (LBS/FT)		16, 15	32, 29, 28 24, 22	26.8, 26,	20, 17	40	38, 35 28	32, 30, 29,
SPEAR ASSEMBLY	Logan Part No.	204-013	204-014	204-014	204-014	204-014	204-015	204-015
	Bowen No.	9347	9796	9796	9796	9796	9352	9352
SLIP SIZE STAMPED		5-19/32	5-3/4	5-15/16	6-1/8	5-15/16	6	6-3/16
	Logan Part No.	AV4013	AV4014	AV4014	AV4014	AV4014	AV4015	AV4015
	Bowen No.	9349	9798	9798	9798	9798	9354	9354
FRICTION BLOCK SIZE STAMPED		...	5-3/4	...	6-1/8	6-1/8	5-3/4	...
	Logan Part No.	...	AV12008	...	AV12008	AV12008	AV12009	...
	Bowen No.	...	14835	...	14835	14835	14961	...
SAFETY RING SIZE STAMPED		5-11/32	5-1/2	5-11/16	5-7/8	5-11/16	5-3/4	5-15/16
	Logan Part No.	AV17013	AV17014	AV17014	AV17014	AV17014	AV17015	AV17015
	Bowen No.	6520	6488	6488	6488	6488	6522	6522
SAFETY RING PACK-OFF SIZE STAMPED		5-11/32	5-1/2	5-11/16	5-7/8	5-11/16	5-3/4	5-15/16
	Logan Part No.	AV25012	AV25013	AV25013	AV25013	AV25013	AV25015	AV25015
	Bowen No.	6041	6487	6487	6487	6487	6047	6047

FISH SIZE		7 Csg	7 Csg	7-5/8 Csg	7-5/8 Csg	7-5/8 Csg	8 Csg	8-1/8 Csg
WEIGHT (LBS/FT)		26, 24, 23, 22	20, 17	39, 33.7	29.7, 26.4	24, 20	26	39.5, 35.5
SPEAR ASSEMBLY	Logan Part No.	204-015	204-015	204-016	204-016	204-016	204-016	204-016
	Bowen No.	9352	9352	10608	10608	10608	10608	10608
SLIP SIZE STAMPED		6-3/8	6-17/32	6-11/16	6-15/16	7-3/32	7-7/16	7-1/4
	Logan Part No.	AV4015	AV4015	AV4016	AV4016	AV4016	AV4016	AV4016
	Bowen No.	9354	9354	10610	10610	10610	10610	10610
FRICTION BLOCK SIZE STAMPED		...	...	6-5/8	...	...	6-7/8	6-7/8
	Logan Part No.	...	...	AV12010	...	...	AV12010	AV12010
	Bowen No.	...	...	14967	...	...	14967	14967
SAFETY RING SIZE STAMPED		6-1/8	6-9/32	6-7/16	6-11/16	6-27/32	7-3/16	7
	Logan Part No.	AV17015	AV17015	AV17016	AV17016	AV17016	AV17016	AV17016
	Bowen No.	6522	6522	6524	6524	6524	6524	6524
SAFETY RING PACK-OFF SIZE STAMPED		6-1/8	6-9/32	6-7/16	6-11/16	6-27/32	7-3/16	7
	Logan Part No.	AV25015	AV25015	AV25014	AV25014	AV25014	AV25014	AV25014
	Bowen No.	6047	6047	6055	6055	6055	6055	6055

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FISH SIZE		8-1/8 Csg	8-5/8 Csg	8-5/8 Csg	8-5/8 Csg	9 Csg	9 Csg	9 Csg
WEIGHT (LBS/FT)		32, 28	49, 44 38, 36	43, 40,	32, 28, 24	55	45	40, 38, 34
SPEAR ASSEMBLY	Logan Part No.	204-016	204-017	204-017	204-017	204-017	204-017	204-017
	Bowen No.	10608	6318	6318	6318	6318	6318	6318
SLIP SIZE STAMPED		7-7/16	7-9/16	7-13/16	8-1/16	7-13/16	8-1/16	8-5/16
	Logan Part No.	AV4016	AV4017	AV4017	AV4017	AV4017	AV4017	AV4017
	Bowen No.	10610	6320	6320	6320	6320	6320	6320
FRICTION BLOCK SIZE STAMPED		...	...	7-3/4	...	...	7-3/4	...
	Logan Part No.	...	AV12011	...	...	AV12011	...	...
	Bowen No.	...	14973	...	...	14973	...	...
SAFETY RING SIZE STAMPED		7-3/16	7-1/4	7-1/2	7-3/4	7-1/2	7-3/4	8
	Logan Part No.	AV17016	AV17017	AV17017	AV17017	AV17017	AV17017	AV17017
	Bowen No.	6524	6528	6528	6528	6528	6528	6528
SAFETY RING PACK-OFF SIZE STAMPED		7-3/16	7-1/4	7-1/2	7-3/4	7-1/2	7-3/4	8
	Logan Part No.	AV25014	AV25016	AV25016	AV25016	AV25016	AV25016	AV25016
	Bowen No.	6055	6529	6529	6529	6529	6529	6529

FISH SIZE		9-5/8 Csg	9-5/8 Csg	9-5/8 Csg	10 Csg	10-3/4 Csg	10-3/4 Csg	11-3/4 Csg
WEIGHT (LBS/FT)		58, 47, 53.5	40, 36, 43.5	32.3, 29.3	33 48	55.5, 54, 51, 40.5, 32.75	45.5, 45, 40,	60, 54
SPEAR ASSEMBLY	Logan Part No.	204-018	204-018	204-018	204-018	204-019	204-019	204-020
	Bowen No.	10473	10473	10473	10473	6067	6067	6073
SLIP SIZE STAMPED		8-1/2	8-13/16	9	9-3/8	9-13/16	10-1/16	10-7/8
	Logan Part No.	AV4018	AV4018	AV4018	AV4018	AV4019	AV4019	AV4020
	Bowen No.	10475	10475	10475	10475	6069	6069	6075
FRICTION BLOCK SIZE STAMPED		8-7/8	...	...	8 7/8	10	...	...
	Logan Part No.	AV12012	...	...	AV12012	AV12013	...	...
	Bowen No.	14979	...	...	14979	14984	...	...
SAFETY RING SIZE STAMPED		8-3/16	8-1/2	8-11/16	9-1/16	9-1/2	9-3/4	10-9/16
	Logan Part No.	AV17018	AV17018	AV17018	AV17018	AV17019	AV17019	AV17020
	Bowen No.	6531	6531	6531	6531	6533	6533	6535
SAFETY RING PACK-OFF SIZE STAMPED		8-3/16	8-1/2	8-11/16	9-1/16	9-1/2	9-3/4	10-9/16
	Logan Part No.	AV25017	AV25017	AV25017	AV25017	AV25018	AV25018	AV25019
	Bowen No.	6063	6063	6063	6063	6072	6072	6080

FISH SIZE		11-3/4 Csg	12 Csg	13 Csg	13-3/8 Csg	13-3/8 Csg	16 Csg	
WEIGHT (LBS/FT)		47, 42, 38	40	54, 50, 45, 40	83, 72, 68, 61	54, 48	84, 75, 65, 55	
SPEAR ASSEMBLY	Logan Part No.	204-020	204-020	204-021	204-021	204-021	204-021	
	Bowen No.	6073	6073	6081	6081	6081	6081	
SLIP SIZE STAMPED		11-1/8	11-3/8	12-3/8	12-3/8	12-5/8	15-3/16	
	Logan Part No.	AV4020	AV4020	AV4021	AV4021	AV4021	AV4021	
	Bowen No.	6075	6075	6083	6083	6083	6083	
FRICTION BLOCK SIZE STAMPED		...	...	12-1/4	12-1/4	...	15	
	Logan Part No.	...	...	AV12015	AV12015	...	AV12015	
	Bowen No.	...	...	14994	14994	...	14994	
SAFETY RING SIZE STAMPED		10-13/16	11-1/16	12	12	12-1/4	14-13/16	
	Logan Part No.	AV17020	AV17020	AV17021	AV17021	AV17021	AV17021	
	Bowen No.	6535	6535	6537	6537	6537	6537	
SAFETY RING PACK-OFF SIZE STAMPED		10-13/16	11-1/16	12	12	12-1/4	14-13/16	
	Logan Part No.	AV25019	AV25019	AV25020	AV25020	AV25020	AV25020	
	Bowen No.	6080	6080	6088	6088	6088	6088	