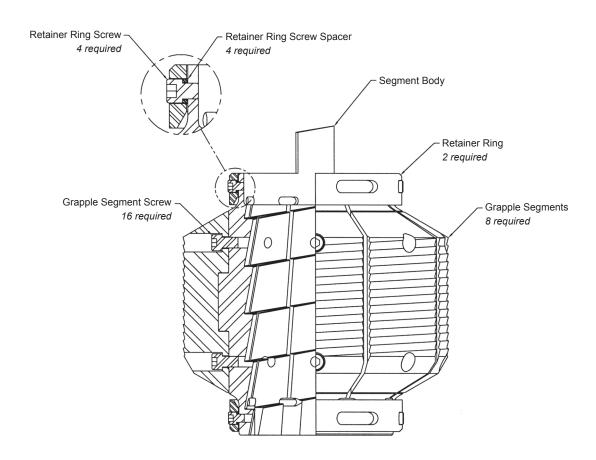


SEGMENTED SPEAR GRAPPLE ASSEMBLIES

Overview

The segment-type spear grapple enhances the spear's usefulness by providing an extended catching range beyond the maximum range of the standard one-piece grapple. The Logan Segment-Type Spear Grapple consists of a grapple body, eight grapple segments, two retainer rings, six retainer ring spacers, and sixteen grapple segment screws.





SEGMENTED	SPEAR	GRAPPLE	ASSEMBLIES

ASSEMBLES TO SPEAR	Logan Part No.			202-025				202-018	
	Bowen No.			9380				17243	
CATCH SIZE (PIPE SIZE)		10-3/4	11-3/4	12-3/4	13-3/8	10-3/4	11-3/4	12-3/4	13-3/8
PIPE WEIGHT		32.75	38.00	45.45	48.00	32.75	38.00	45.45	48.60
		48.00	54.00	66.72	68.00	48.00	54.00	66.72	68.00
		40.00	47.00		61.00	40.00	47.00		61.00
		55.50	60.00		85.00	55.50	60.00		85.00
COMPLETE ASSEMBLY	Logan Part No.			205-000				205-001	
	Bowen No.			9382				17245	
GRAPPLE BODY	Logan Part No.			F3029-A				F3030-A	
	Bowen No.			9382-A				17245-A	
GRAPPLE SEGMENT	Logan Part No.	•		F3029-B				F3030-B	
(8 per set)	Bowen No.			9382-B				17245-B	
SEGMENT SCREW	Logan Part No.			T3000				T3000	
	Bowen No.			12198				12198	
	No. Req'd			16				16	
RETAINER RING	Logan Part No.			T4000				T4000	
	Bowen No.			56855				56855	
	No. Req'd			2				2	
RETAINER RING SCREW	Logan Part No.			T5000				T5000	
	Bowen No.	23535				23535			
-	No. Req'd			4				4	
RETAINER RING SCREW	Logan Part No.			T6000				T6000	
SPACER	Bowen No.			56979				56979	
	No. Req'd			4				4	

ASSEMBLES TO SPEAR	Logan Part No.			202-019					202-020		
	Bowen No.			9281				17246			
CATCH SIZE (PIPE SIZE))	13-3/8	14	16	18-5/8	20	13-3/8	14	16	18-5/8	20
PIPE WEIGHT		48.00	42.00	55.00	90.00	90.00	48.00	42.00	55.00		90.00
		68.00	57.00	65.00	106.50	94.00	68.00	57.00	65.00		94.00
		61.00		84.00		106.00	61.00		84.00		133.00
		85.00		109.00		133.00	85.00				
COMPLETE ASSEMBLY	Logan Part No.			205-002					205-003		
	Bowen No.			9283					17248		
GRAPPLE BODY	Logan Part No.			F3032-A					F3034-A		
	Bowen No.			9283-A					17248-A		
GRAPPLE SEGMENT	Logan Part No.	F3032-B				F3034-B					
(8 per set)	Bowen No.			9283-B					17248-B		
SEGMENT SCREW	Logan Part No.			T3001					T3001		
	Bowen No.	23020				23020					
	No. Req'd			16					16		
RETAINER RING	Logan Part No.			T4001					T4001		
	Bowen No.			56409					56409		
	No. Req'd			2					2		
RETAINER RING SCREW	Logan Part No.			T5001					T5001		
	Bowen No.	56813				56813					
	No. Req'd			4					4		
RETAINER RING SCREW	Logan Part No.			T6000					T6000		
SPACER	Bowen No.			56979					56979		
	No. Req'd			4					4		



SEGMENTED SPEAR GRAPPLE ASSEMBLIES

ASSEMBLES TO SPEAR	Logan Part No.		202-021		
	Bowen No.		27780		
CATCH SIZE (PIPE SIZE)		16	18-5/8	20	
PIPE WEIGHT		55.00		90.00	
		65.00		94.00	
		84.00		133.00	
COMPLETE ASSEMBLY	Logan Part No.		205-004		
	Bowen No.		27782		
GRAPPLE BODY	Logan Part No.		F3035-A		
	Bowen No.		27782A		
GRAPPLE SEGMENT	Logan Part No.		F3035-B		
(8 per set)	Bowen No.		27782B		
SEGMENT SCREW	Logan Part No.		T3002		
	Bowen No.		12019		
	No. Req'd		16		
RETAINER RING	Logan Part No.		T4002		
	Bowen No.		56858		
	No. Req'd		2		
RETAINER	Logan Part No.		T5002		
RING SCREW	Bowen No.		56859		
	No. Req'd		4		
RETAINER RING	Logan Part No.		T6000		
SCREW SPACER	Bowen No.		56979		
	No. Req'd		4		

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