

TUG ASSIST / MANEUVERING LINES

**For More Information Contact;
American Rigging Supply, Inc.**



“FOR OVER A YEAR NOW WE HAVE SUBJECTED PROTON® 8 TO THE MOST SEVERE SERVICE THAT A TOWBOAT ENGAGED IN THE DREDGING BUSINESS CAN DISH OUT... THE LIGHT WEIGHT, STRENGTH AND PROVEN DURABILITY OF PROTON 8 MAKE IT BY FAR, THE BEST LINE WE HAVE USED FOR OUR BUSINESS.”

SAMSON OFFERS SPECIFIC PRODUCTS TO MEET THE NEEDS OF VARYING TUG DESIGNS AND BOLLARD PULLS FOR CONVENTIONAL OR TRACTOR TUGS ASSIST/MANEUVERING LINES THAT ARE WORKED OFF DRUMS OR H-BITTS.

Our Sales and Engineering groups can assist by supplying detailed engineered solutions to improve rope performance and safety.

WHEN WORKING WITH H-BITTS:

Slippage and the effect of heat build up are critical factors when working with H-bitts. The main rope for use on H-bitts should have an outer working surface of polyester to provide the holding friction and heat protection necessary when surging the rope. To minimize the working line weight and maximize the wear of the shipboard connecting end, a floating light weight AmSteel-Blue pendant can be utilized.

FOR DRUM WORKING LINES:

Since gripping and heat resistance are not as critical, the higher strength and lighter weight of an all-Dyneema rope provide the best performance. These ropes are also used with a replaceable connecting pendant to insure maximum service life of the main working line.

**DRUM
WORKING LINE
COMPARISON**



Size Dia. Inches	Size Dia. mm	AmSteel-Blue		Neutron-8	
		Kg/100M	MBS Tonnes	Kg/100M	MBS Tonnes
6"	48mm	130.0 Kg	155.0 MT	134.0 Kg	184.0 MT
7"	56mm	173.0 Kg	219.0 MT	169.0 Kg	223.0 MT
8"	64mm	249.0 Kg	270.0 MT	230.0 Kg	296.0 MT
9"	72mm	307.0 Kg	339.0 MT	301.0 Kg	379.0 MT
10"	80mm	357.0 Kg	411.0 MT	353.0 Kg	453.0 MT

**H-BITT
WORKING LINE
COMPARISON**



Size Dia. Inches	Size Dia. mm	Proton® 8		Round Plait SSR-I200	
		Kg/100M	MBS Tonnes	Kg/100M	MBS Tonnes
6"	48mm	147.0 Kg	108.0 MT	152.0 Kg	41.6 MT
7"	56mm	186.0 Kg	143.0 MT	202.0 Kg	56.7 MT
8"	64mm	257.0 Kg	198.0 MT	262.0 Kg	71.4 MT
9"	72mm	294.0 Kg	246.0 MT	344.0 Kg	89.8 MT
10"	80mm	378.0 Kg	285.0 MT	426.0 Kg	110.0 MT

TUG ASSIST / MANEUVERING LINE PENDANTS

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TO ENSURE MAXIMUM SERVICE LIFE OF TUG ASSIST AND MANEUVERING LINES, SAMSON RECOMMENDS THE USE OF A SINGLE LEG OR STROP PENDANT.

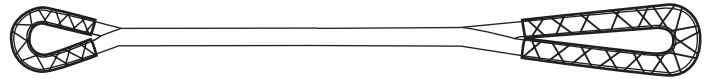
The pendants will take the abuse of rough undressed chocks and bits aboard the assisted vessel and allow the main assist lines to be maintained. The pendants can be connected by way of cow-hitching the 1 meter soft eye of the single leg or the strop to the main line soft eye. The strop configuration can be readjusted to share the wear over the strop length.

To protect the pendants, our Pro-Gard™ Eye Protectors for the pendant eyes can be easily installed in the field or at time of order—refer to page (35).

AMSTEEL-BLUE SINGLE-LEG PENDANT CONFIGURATION

SINGLE LEG PENDANT CONFIGURATION:

Standard overall length is 15.2M (50 FT.) with a 1M (3 Ft.) soft eye, for mating to main line, and a 2M (6 Ft.) soft eye for shipboard connection.



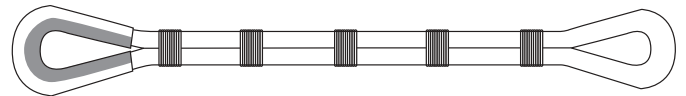
Eye-to-eye single leg connection.

Size Dia. Inches	Size Circ. Inches	Approx. Wt. Per Unit/ Lbs.	SRT MBS/Lbs.	Size Dia. mm	Approx. Wt. Per Unit/KG	SRT MBS/Metric Tonnes	ISO/BS EN919 Strength/Metric Tonnes
1-1/2"	4-1/2"	39.0 lbs.	205,000 lbs.	36mm	17.7 Kg	92.9 MT	103.0 MT
1-5/8"	5"	51.0 lbs.	255,000 lbs.	40mm	23.1 Kg	116.0 MT	128.0 MT
1-3/4"	5-1/2"	61.0 lbs.	302,000 lbs.	44mm	27.7 Kg	137.0 MT	152.0 MT
2"	6"	73.0 lbs.	343,000 lbs.	48mm	33.1 Kg	155.0 MT	173.0 MT
2-1/8"	6-1/2"	89.0 lbs.	411,000 lbs.	52mm	40.4 Kg	186.0 MT	207.0 MT
2-1/4"	7"	102.0 lbs.	483,000 lbs.	56mm	46.3 Kg	219.0 MT	244.0 MT
2-1/2"	7-1/2"	126.0 lbs.	529,000 lbs.	60mm	57.2 Kg	240.0 MT	267.0 MT
2-5/8"	8"	145.0 lbs.	596,000 lbs.	64mm	65.8 Kg	270.0 MT	300.0 MT
2-3/4"	8-1/2"	166.0 lbs.	662,000 lbs.	68mm	75.3 Kg	300.0 MT	333.0 MT
3"	9"	187.0 lbs.	748,000 lbs.	72mm	84.8 Kg	339.0 MT	377.0 MT
3-1/4"	10"	245.0 lbs.	906,000 lbs.	80mm	111.0 Kg	411.0 MT	457.0 MT

AMSTEEL-BLUE STROP PENDANT CONFIGURATION

SINGLE LEG STROP CONFIGURATION:

Standard overall length is 15.2M (50 Ft.). Strop strengths are 1.6 x single leg rope strengths.



Strop to main line connection.

Rope Size Dia. Inches	Rope Size Circ. Inches	Approx. Strop Wt. Per Unit/Lbs.	SRT MBS/Lbs.	Rope Size Dia. mm	Strop Wt. Per Unit/KG	SRT MBS/Metric Tonnes	ISO/BS EN919 Strength/Metric Tonnes
1-1/4"	3-3/4"	41.0 lbs.	238,000 lbs.	30mm	18.6 Kg	108.0 MT	120.0 MT
1-5/16"	4"	48.0 lbs.	265,000 lbs.	32mm	21.8 Kg	120.0 MT	134.0 MT
1-1/2"	4-1/2"	60.0 lbs.	328,000 lbs.	36mm	27.2 Kg	149.0 MT	165.0 MT
1-5/8"	5"	78.0 lbs.	408,000 lbs.	40mm	35.4 Kg	186.0 MT	205.0 MT
1-3/4"	5-1/2"	93.0 lbs.	482,000 lbs.	44mm	42.2 Kg	219.0 MT	243.0 MT
2"	6"	111.0 lbs.	549,000 lbs.	48mm	50.4 Kg	248.0 MT	277.0 MT
2-1/8"	6-1/2"	134.0 lbs.	658,000 lbs.	52mm	60.8 Kg	298.0 MT	331.0 MT
2-1/4"	7"	153.0 lbs.	773,000 lbs.	56mm	69.4 Kg	350.0 MT	390.0 MT
2-1/2"	7-1/2"	186.0 lbs.	847,000 lbs.	60mm	84.4 Kg	384.0 MT	427.0 MT
2-5/8"	8"	214.0 lbs.	953,000 lbs.	64mm	97.1 Kg	432.0 MT	480.0 MT