

**SINGLE ARM PREMIUM HOSE REEL**

FOR LOW, MEDIUM AND HIGH PRESSURE FLUIDS

AIR, HOT AND COLD WATER, LUBRICANTS, ANTIFREEZE, WINDSHIELD WASH, GREASE



NEW CONCEPT

NEW DESIGN FEATURES

NEW MATERIALS

**NEW CONCEPT:** PROVIDES EASIER INSTALLATION AND  
**NEW DESIGN FEATURES:** FULL PORT REDUCES PRE

BEARINGS REQUIRES LESS

**NEW MATERIALS:** PROVIDE MINIMUM WEIGHT, MAXI

SAMSON INTRODUCES THE **506 SERIES** HOSE REEL, A HOSE REEL WITH A

**EXCLUSIVE CIRCULAR DESIGN  
HOSE GUIDE OUTLET WITH  
SIX ROLLERS**

Contributes to a smooth and easy operation pulling from any angle. Also minimizes hose wear as it prevents hose pinching in sharp corners.

**SUPERB CORROSION RESISTANCE**

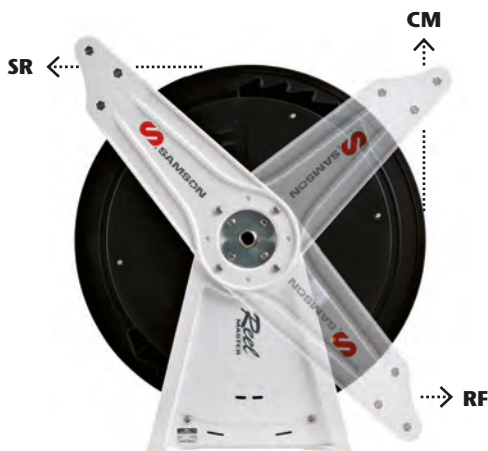
Sintered powder coated aluminum base and arm assembly, composite material spool and stainless steel fasteners provide superior corrosion resistance. The hose reel power spring is protected from moisture and dust, yet readily accessible for service\*.

**EIGHT POSITION LATCHING MECHANISM**

The hose reel can be latched once the desired hose length is pulled out from the spool. Eight latching teeth distributed in two opposite racks provide multiple hose lock positions.

**LONG LIFE QUALITY POWER SPRING**

The power spring is manufactured with high quality fatigue resistant steel, guaranteed for long and trouble free operation. Depending on hose length and weight, each reel uses one of three optimized performance springs, adapting reel operation to the specific needs of the application.



**VERSATILE DESIGN**

Guide arm can be mounted in three positions in order to select the one that offers smooth tangential hose extraction. Reels are shipped in the CM position and can be easily changed on site.

**SUPERIOR STRUCTURAL DESIGN AND STABILITY**

Unique precision machined die-cast aluminum base and guide arm provide this single arm reel with the rigidity and structural strength required for even the most severe operating conditions. Hose reel base and guide arm have been designed using the most advanced design techniques, optimizing material use and maximizing structural strength while minimizing weight for ease of installation.



\* Power spring must be serviced by authorized and trained personnel only.

...ID SERVICE IN ANY MOUNTING SITUATION.  
...SSURE LOSS TO A MINIMUM. SPOOL MOUNTED ON  
...S POWER TO PULL OUT THE HOSE.  
...MUM RIGIDITY AND WIDE FLUID COMPATIBILITY.

...LL THE QUALITY FEATURES OF PREMIUM REELS AT AN AFFORDABLE PRICE.

#### HOSE STRAIN RELIEF CLAMP

When pulling on the hose after completely extracting it from the spool, tension is created. This tension could damage the swivel. The hose clamp prevents the transmission of this tension to the swivel union, ensuring long and trouble free swivel and hose life. To avoid collapsing the hose, this clamp shall not be over-tightend.

#### FULL PORT PRESSURE BALANCED SWIVELS

Medium and high pressure balanced swivels provide minimum spring retraction resistance, even at high working pressures. Their simple design provides unrestricted flow, easy access for service and long-life, trouble-free operation.



#### SPOOL MOUNTED ON BALL BEARINGS

The spool is mounted on two permanently lubricated and sealed ball bearings providing a smooth and comfortable hose extraction. Bearings provide optimal hose retraction even in the most demanding situations such as high ceiling-mounted reels with heavy fluid hoses and dispensing guns. Ball bearings also help to increase reel life and to eliminate wobbling.

#### FLUID COMPATIBILITY

Nickel protected shaft provides maximum fluid compatibility. The 506 SERIES hose reels can be used with a wide range of fluids: low pressure air, water and windshield washer, medium pressure lubricants and antifreeze solutions, high pressure grease, cold and hot water. The shaft is manufactured as a single piece, with no threaded unions, eliminating the risk of leaks.



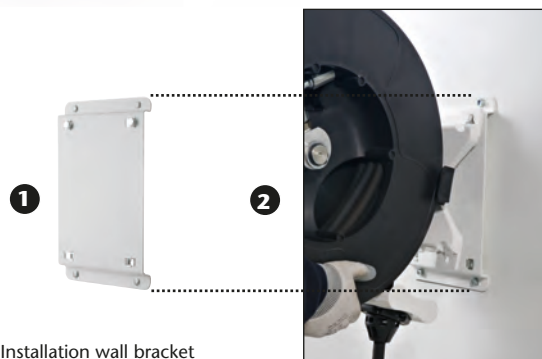
#### EASY MAINTENANCE AND SERVICE

Single arm design provides maximum access to all serviceable parts. Hose replacement and ratchet and swivel inspection can be done easily without dismounting the reel. Removable rollers allow easy cleaning and service.

#### EASY ON-SITE SPRING TENSION ADJUSTMENT

One advantage of single arm reels is that the power spring tension can be adjusted on site without the need to use any tool or to remove the hose stop, regardless of the reel mounting position. Spring tension can be increased simply by adding hose loops to the spool and it can be decreased by removing hose loops.\*

\* Hose escape eliminator in the reel base must be removed.



\* Fast Installation wall bracket

#### EASY INSTALLATION

Thanks to their reduced weight and the reversible base design with four keyhole slots, the 506 SERIES reels are very easy to install, even for a single installer. The 506 SERIES reels can use the same mounting accessories as other Samson reels and fast installation or pivoting brackets are available.

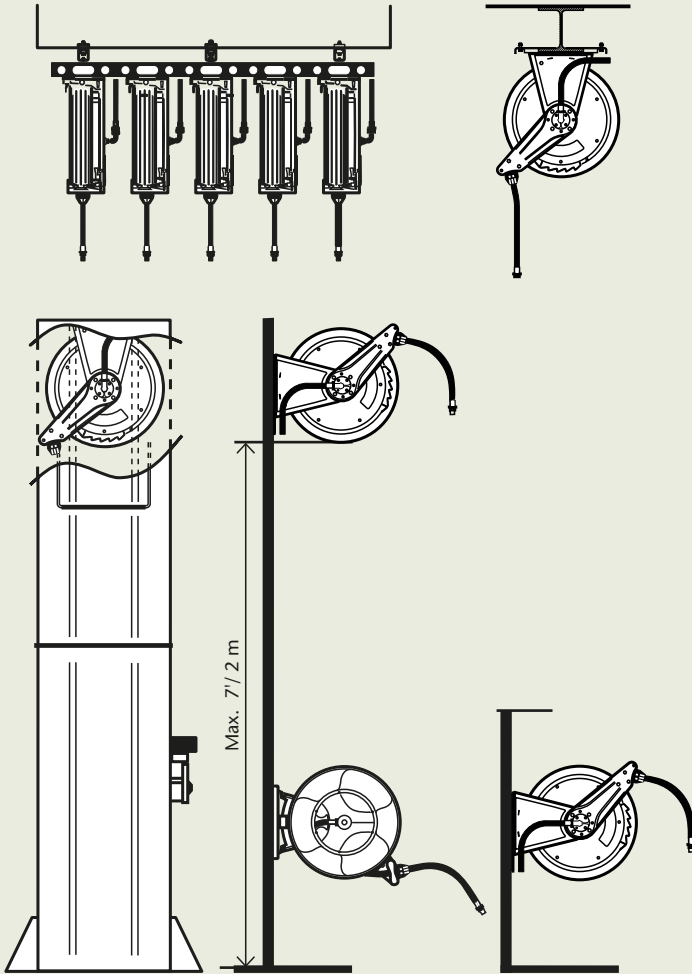
The fast installation wall bracket 360 119, allows an easy installation of the hose reel to any surface.

- 1.- Fix the bracket to the mounting surface (wall, column, etc.), by means of four 3/8" anchors.
- 2.- Partially screw two bolts\*\* to the top of the bracket and insert the reel upper slotted openings through them. Let the reel hang to the end of the slots.
- 3.- Secure the reel to the bracket fastening the four bolts.

\*\* Bracket includes required mounting hardware.

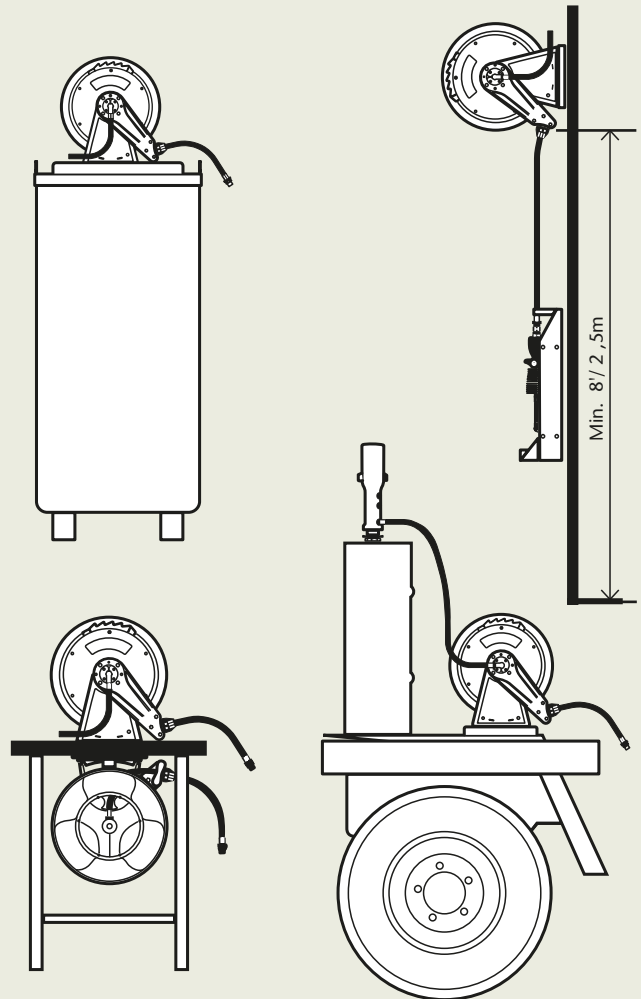
## MOUNTING OPTIONS

The three different positions of the outlet arm designed into the 506 SERIES hose reels allow you to select the configuration offering the smoothest and most linear pull in all mounting situations.



### CM: CEILING MOUNT

This position shall be selected whenever the hose is pulled perpendicularly to the mounting surface. Typical use of this position is when the reel is mounted to a ceiling, or a hose reel stand (part numbers 360160 and 360162). This position can also be used when the reel is mounted to a wall at a maximum height of 7' or inside lubrication pits. In these two cases, it is recommended to use a pivoting bracket (part number 360 121) to reduce the torque when the reel is submitted to lateral pulls.

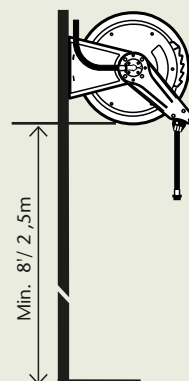


### RF: REAR FLOOR

This position is recommended whenever the hose is pulled out tangentially to the mounting surface. Typical examples are when the reel is mounted on a tank, under or over a workbench, lube trucks, etc. When mounted to a wall, this position has the advantage that the hose lays close to the wall and it does not represent an obstacle. Additionally the torque on the arm created when the hose is pulled laterally is minimized.

### SR: SIDE ROLLER

This position shall be selected when the hose is pulled parallel to the mounting surface. Typical use of this position is when the reel is mounted to a wall at a minimum height of 8.5'. This position may, however create an obstacle in the shop because the hose is further out from the wall. Additionally, increased torque on the arm is created when the reel is submitted to lateral pulls. In this case the use of a pivoting bracket (part number 360 121) is recommended.



## HOSE REEL MOUNTING ACCESSORIES

### WALL MOUNTING ACCESSORIES INDIVIDUAL REEL BRACKETS\*

- 360 119:** Fast mount bracket.
- 360 121:** Pivoting bracket.



### WALL AND CEILING MOUNTING ACCESSORIES REEL MOUNTING CHANNELS\*

- For mounting a reel bank to the ceiling or to a wall.
- 360114** For mounting a two reel bank. 21.5" x 12".
- 360115** For mounting a three reel bank. 32.5" x 12".
- 360117** For mounting a five reel bank. 54" x 12".
- 360118** Secures a reel bank bracket to an I-beam (minimum/maximum I-beam width; 4"/7") without drilling. Two brackets are required for the two and three reel bank channels and three brackets are required when mounting the five reel bank channel.
- 360 116:** Bracket for mounting a hose reel directly to a 4" - 7" I-beam.

### FLOOR MOUNTING ACCESSORIES. REEL STANDS\*



- 360160** Six reel stand. Allows mounting up to six reels in a bank. Its use is recommended when it is not desired, or, possible to hang reels from the ceiling. Ideal for servicing two lubrication bays simultaneously. Dimensions: Height: 98.5", length: 64.5", width: 27.5". Includes paper roll support, waste basket, two perforated panels, writing desk, drip collector tray and two locking drawers.
- 360162** Three reel stand with drip collector tray. For mounting up to a three reel bank between two lubrication bays. Dimensions: Height: 94.5", length: 47", width: 12".
- 360161** Two reel stand. Height: 93.5".

\*Brackets and stands, include required mounting hardware.

### HOSE SPECIFICATIONS

		TEMPERATURE RANGE		HOSE FITTINGS IN FREE HOSE ENDS		HOSE FITTINGS FOR SHAFT AND SWIVEL CONNECTIONS	
HOSE	SPECIFICATION	MIN.	MAX.	DELIVERY HOSE	INLET HOSE	DELIVERY HOSE SWIVEL CONNECTION	INLET HOSE SHAFT CONNECTION
<b>A</b>	Buna-S (SBR). Synthetic textile braid.	-24° F	+160° F	Male NPT, zinc plated	Zinc plated steel female NPSM 60° cone and male NPT adaptor.	Zinc plated steel swept elbow NPSM 60° cone.	Zinc plated steel swept elbow NPSM 60° cone.
<b>B</b>	EPDM. Synthetic textile braid.	-40° F	+200° F	Male NPT, stainless steel	Stainless steel female NPSM 60° cone and male NPT adaptor.	Stainless steel swept elbow NPSM 60° cone.	Stainless steel swept elbow NPSM 60° cone.
<b>C</b>	Buna-S (SBR). One steel braid.	-40° F	+300° F	Male NPT, zinc plated	Zinc plated steel female NPSM 60° cone and male NPT adaptor.	Zinc plated steel swept elbow NPSM 60° cone.	Zinc plated steel swept elbow NPSM 60° cone.
<b>D</b>	Buna-N (NBR). One steel braid.	-40° F	+212 °F	Male NPT, zinc plated <sup>1</sup>	Zinc plated steel female NPSM 60° cone and male NPT adaptor.	Zinc plated steel swept elbow NPSM 60° cone.	Zinc plated steel swept elbow NPSM 60° cone.
<b>E</b>	Buna-N (NBR). One high density steel braid.	-40° F	+212 °F	Male NPT, zinc plated	Zinc plated steel female NPSM 60° cone and male NPT adaptor.	Zinc plated steel swept elbow NPSM 60° cone.	Zinc plated steel swept elbow NPSM 60° cone.
<p>NBR: Nitrile butadiene rubber. SBR: Styrene butadiene rubber. EPDM: Ethylene propylene diene M-class rubber.</p>							
<p><sup>1</sup> Except for waste oil suction applications, where delivery hose free end has a female NPSM 60° cone with NPSM double male adaptor.</p>							

**SAMSON**

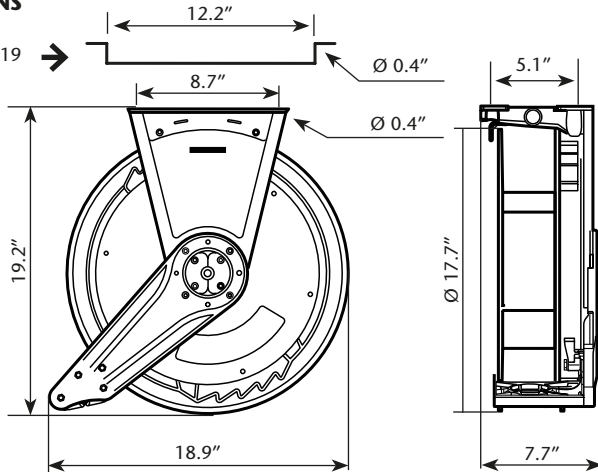
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**DIMENSIONS**

Part N° 360 119 →



Hose reels are delivered from factory with the guide arm in the CM position.

PART N°	HOSE LENGTH	HOSE DIAMETER I.D. - O.D.	HOSE OUTLET THREAD	INLET THREAD	HOSE TYPE	HOSE WORKING PRESSURE	NET WEIGHT	BARE REEL PART N°
<b>COMPRESSED AIR AND LOW PRESSURE WATER</b>								
<b>506 101-A</b>	30' - (9.1 m)	3/8" - 11/16"	3/8" NPT (M)	1/2" NPT (M)	<b>A</b>	300 psi - (20 bar)	26.7 lb	<b>506 920-A</b>
<b>506 121-A</b>	50' - (15.2 m)	3/8" - 11/16"	3/8" NPT (M)	1/2" NPT (M)	<b>A</b>	300 psi - (20 bar)	31.3 lb	<b>506 922-A</b>
<b>506 122-A</b>	50' - (15.2 m)	1/2" - 25/32"	1/2" NPT (M)	1/2" NPT (M)	<b>A</b>	300 psi - (20 bar)	32.8 lb	<b>506 912-A</b>
<b>HOT AND COLD WATER 150° C - 300° F MAXIMUM TEMPERATURE</b>								
<b>506 421-A</b>	50' - (15.2 m)	3/8" - 5/8"	3/8" NPT (M)	3/8" NPT (M)	<b>C</b>	2.500 psi - (170 bar)	33.3 lb	<b>506 942-A</b>
<b>OIL, ANTIFREEZE, AIR AND WATER</b>								
<b>506 202-A</b>	30' - (9.1 m)	1/2" - 23/32"	1/2" NPT (M)	1/2" NPT (M)	<b>D</b>	1.500 psi - (100 bar)	27.8 lb	<b>506 920-A</b>
<b>506 222-A</b>	50' - (15.2 m)	1/2" - 23/32"	1/2" NPT (M)	1/2" NPT (M)	<b>D</b>	1.500 psi - (100 bar)	32.8 lb	<b>506 922-A</b>
<b>506 212-A</b>	60' - (18.25 m)	1/2" - 23/32"	1/2" NPT (M)	1/2" NPT (M)	<b>D</b>	1.500 psi - (100 bar)	34.6 lb	<b>506 924-A</b>
<b>WASTE OIL SUCTION</b>								
<b>506 503-A</b>	20' - (6.1 m)	5/8" - 29/32"	1/2" NPT (M)	1/2" NPT (M)	<b>D</b>	1.500 psi - (100 bar)	29.3 lb	<b>506 950-A</b>
<b>WINDSHIELD WASHER AND DEGREASERS</b>								
<b>506 602-A</b>	30' - (9.1 m)	1/2" - 27/32"	1/2" NPT (M)	1/2" NPT (M)	<b>B</b>	300 psi - (20 bar)	28.7 lb	<b>506 960-A</b>
<b>506 622-A</b>	50' - (15.2 m)	1/2" - 27/32"	1/2" NPT (M)	1/2" NPT (M)	<b>B</b>	300 psi - (20 bar)	34.2 lb	<b>506 962-A</b>
<b>GREASE</b>								
<b>506 300-A</b>	30' - (9.1 m)	1/4" - 9/16"	1/4" NPT (M)	1/4" NPT (M)	<b>E</b>	5000 psi - (350 bar)	27.3 lb	<b>506 930-A</b>
<b>506 321-A</b>	50' - (15.2 m)	3/8" - 11/16"	1/4" NPT (M)	3/8" NPT (M)	<b>E</b>	4000 psi - (280 bar)	35.3 lb	<b>506 936-A</b>
<b>506 311-A</b>	60' - (18.25 m)	3/8" - 11/16"	1/4" NPT (M)	3/8" NPT (M)	<b>E</b>	4000 psi - (280 bar)	37.5 lb	<b>506 935-A</b>
<b>DEF (AISI 316 STAINLESS STEEL SHAFT AND SWIVEL)</b>								
<b>506 702-A</b>	30' - (9.1 m)	1/2" - 27/32"	1/2" NPT (M)	1/2" NPT (M)	<b>B</b>	300 psi - (20 bar)	28.7 lb	<b>506 970-A</b>

- Models with 60' of hose should be used in installations allowing a minimum of 10' of fluid hose hanging from the reel, and never with the hose totally coiled inside the reel.
- All models with hose include a 2'6" inlet hose.