

# FULTON SUPER SYPHON



**Fulton**  
**SYSTEMS**

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**Description:** The Super Syphon is a unique innovative rotating syphon for the paper industry. Rugged in construction, the Super Syphon is built to withstand the harsh environment found in paper machine dryers.

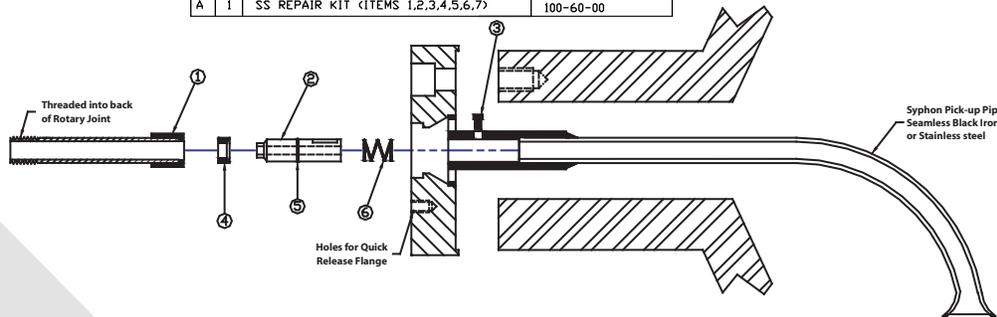
**Application:** The one-piece design combines journal flange, syphon, and horizontal into one unit. Inserted through the existing dryer journal, the Super Syphon applies to all rotary syphon applicators. Recommended speeds are 700-2500 FPM.

**Construction:** All welded carbon steel construction. Stainless steel pick-up is available.

**Features:**

- ◆ One piece syphon design replaces multiple piece syphon systems which have separate syphon, journal flange, spider, and horizontal components.
- ◆ **ABSOLUTELY NO DRYER ACCESS REQUIRED FOR INSTALLATION.** The Super Syphon is externally installed through the dryer journal, with no need for internal dryer access for installation or routine maintenance.
- ◆ Versatile design allows the Super Syphon to be used with both stationary and rotary syphon style joints.
- ◆ Vibration and dryer dynamics are not transmitted to the rotary joint. The Super Syphon absorbs these forces at the seal ring, supporting longer rotary union life.
- ◆ Firmly loaded against the inside of the dryer, the close clearance (0.100-0.125") large diameter pick-up foot provides increased performance and efficient condensate removal.
- ◆ By design, the long radius pickup pipe diminishes pressure drop found in the 90 degree elbow of conventional vertical rotary syphons.

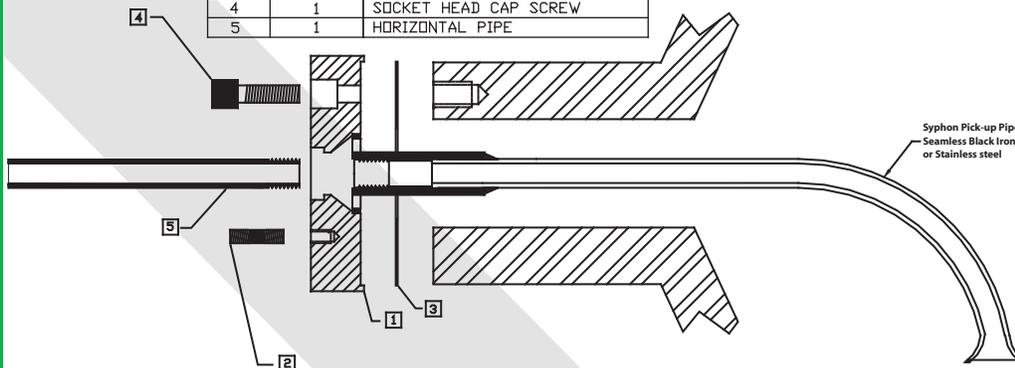
No	Qty	Description	SSR PART NO.
1	1	3/4 NPT Hex Cap	100-00-08
2	1	Seal Shaft (Piston)	100-00-12
3	1	Stainless Steel Socket Head Cap Screw	10-32 X 7/16
4	1	Seal Ring	100-00-04
5	1	High Temperature O-Ring	2-210E0893-80
6	1	Stainless Steel Spring	100-00-14
7	1	O-Ring Lubrication Packet	100-00-00
A	1	SS REPAIR KIT (ITEMS 1,2,3,4,5,6,7)	100-60-00



The piston style Super Syphon is designed for "stationary syphon" type rotary joints.

This unique concept provides paper makers with the ability to upgrade their dryer drainage equipment and receive the benefit of rotary syphons WITHOUT replacing the existing rotary joints.

ITEM	QTY. REQ.	DESCRIPTION
1	1	SSR SUPER SIPHON
2	1	1/2"-13X2-1/2" B-7 STEEL STUD
3	1	GRAFLOIL GASKET
4	1	SOCKET HEAD CAP SCREW
5	1	HORIZONTAL PIPE



The Super Syphon for Rotary Syphon style joints utilizes a short length of horizontal pipe connecting the syphon to the rotary union. The length is only as long as the joint.

Typical lengths of horizontals for vertical syphons can exceed 10 feet, adding additional runout to the rotary joint.

The short horizontal diminishes joint runout.

**Super Syphon Installation**

- ◆ Remove all debris from inside dryer.
- ◆ When the Super Syphon pick-up foot contacts the inside of the dryer shell, the top of the syphon flange will be angled away from the dryer journal.
- ◆ As the Super Syphon flange is fastened to the dryer journal, the pick-up pipe will become tensioned. The loaded pick-up foot is now secured in a fixed position inside the dryer shell.

