ABOVE-GROUND SULFUR SEAL

S_xSeal® 1000

S_xSeal® 1000 is an above-ground sulfur seal solution, replacing traditional sulfur seal legs and ensuring reliable vapor-sealing performance in Sulfur Recovery Unit (SRU) rundown lines.

FIG. 1 *S_xSeal® 1000* An above-ground sulfur seal, back view, shown with ControTrace® steam tracing panel and jumper hoses.

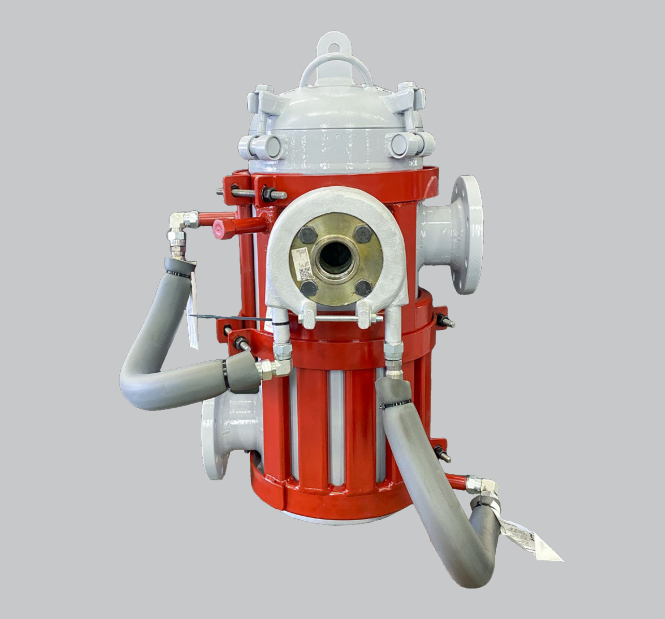

FIG. 2 *S_xSeal® 1000* An above-ground sulfur seal, front view with sight glass shown with ControTrace® steam tracing panel and jumper hose.

KEY BENEFITS

- **Safe and reliable sealing performance:** Fully drains sulfur while preventing vapor flow
- **Easy to install:** Installed entirely above ground, with simple flanged connections
- **Online cleaning:** Debris collects in a strainer basket that can be cleaned in a quick, online operation
- **Reliable:** CSI's proprietary internal sealing mechanism has proven operation at SRU's around the world
- **Easy to maintain:** The complete sealing assembly is fully removable and replaceable

STANDARD FEATURES

- Nozzle size and orientation per site requirements
- Quick-opening top head for fast online cleaning
- Highly durable all stainless, removable sealing assembly
- Upper Chamber sight glass for diagnostics
- Bolt-on ControTrace® jacketing
- Sealing mechanism remains closed in an over-pressure event

OPTIONAL FEATURES

- Bottom discharge
- Through-vessel rod-out nozzles
- Additional sight glasses
- Spare hot-swap components (strainer basket, float/seal mechanism)
- Other customizations according to need

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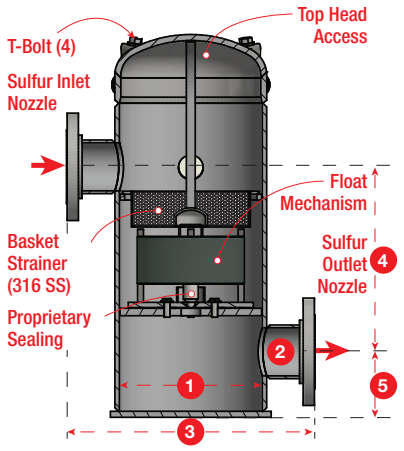
STANDARD UNIT DESIGN

SxSeal® 1000

PRODUCT FEATURES

Standard Models — DIMs	1010	1020	1040	1060	1080
1 Shell NPS	10"	12"	14"	16"	18"
2 Inlet – Outlet Nozzle NPS	3"	3"	4"	6"	6"
3 Inlet – Outlet Flange	21-1/4"	23-1/4"	25"	27"	29"
4 Inlet – Outlet Centerline	14"	15-1/2"	17-3/4"	20-1/4"	24-1/4"
5 Outlet Centerline – Base	4-3/4"	4-3/4"	5-1/2"	6-1/2"	6-1/2"

Front Profile Cut-Away (FIG. 3)



Top View (FIG. 4)

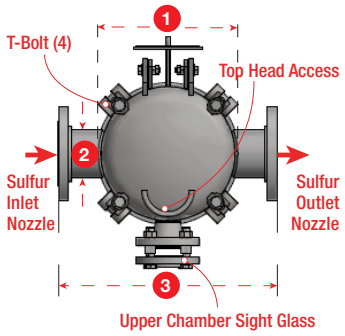


FIG. 3 *SxSeal® 1000* Front-profile cut-away, external dimensions and product feature overview.

FIG. 4 *SxSeal® 1000* Top view.

OPERATING RANGE

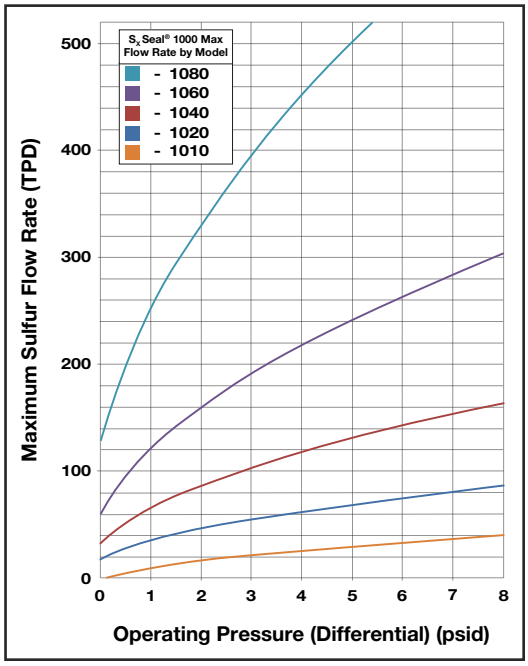


FIG. 5 *SxSeal® 1000* An Operating Range Chart – The maximum operating flow rate through the unit is a function of the upstream operating pressure as summarized in the chart.

RELATED LITERATURE - (LINKS)

- **Ametek CSI's:** Sulfur Process Equipment Web-Page
- **SxSeal® 2000:** The Premier Sulfur Seal
- **SxSeal® Application:** Data Sheet / Questionnaire
- **Application Report:** Major Refinery Improves Reliability by Upgrading Sulfur Sealing Devices
- **Case Study:** In-Ground vs. **SxSeal®** — Sulfur Sealing

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+1 (704) 644 5000 • sales.csi@ametek.com
www.csiheat.com