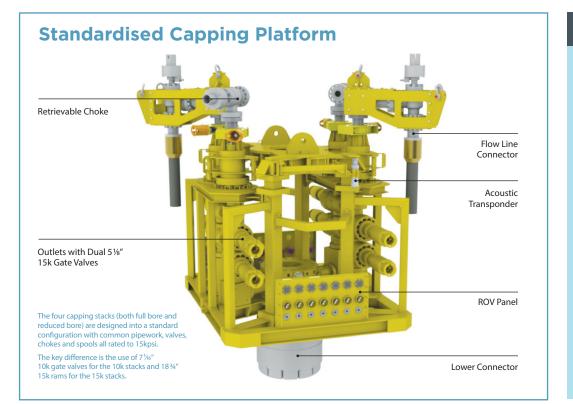


SWIS CAPPING STACK SYSTEM

Oil Spill Response Limited (OSRL) can provide members global access to an integrated intervention system comprising of four capping stacks and two incident response toolkits.

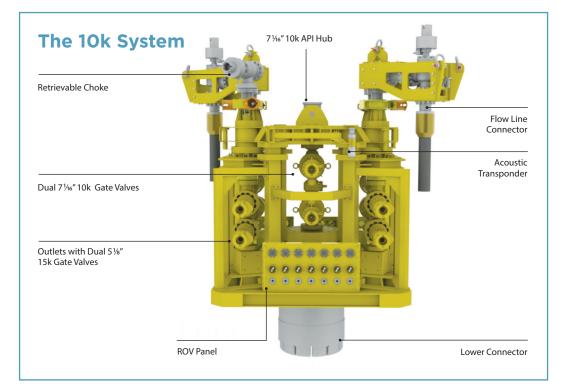
The Capping Stack System: Key Facts

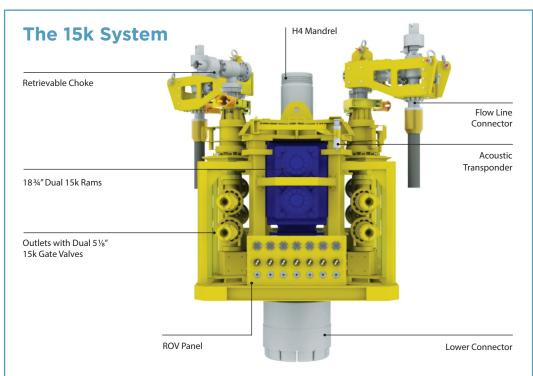
- Four capping systems, including two 18¾" 15k stacks and two 7‰" 10k stacks (with ancillary equipment)
- Transportable by sea and/or air
- Available for a variety of international metocean conditions
- Designed for subsea use to a maximum of 3000m water depth
- Stored in four strategic regional locations around the world Brazil, Norway, Singapore and South Africa
- Manufactured by Trendsetter Engineering



KEY FEATURES

\checkmark	Flexible to handle a variety of scenarios
\checkmark	Retrievable chokes to help gain control of a flowing well
\checkmark	15k connectors, adapter and spacer spools
\checkmark	Connects to BOP, flex joint, or top of wellhead
\checkmark	4 x 5½" outlets on the diverter spool
√	Diverter spool providing optimal flow path during installation and shut in
\checkmark	Use of Spreader Bar to run the Capping device
~	Acoustic real-time pressure and temperature data to surface

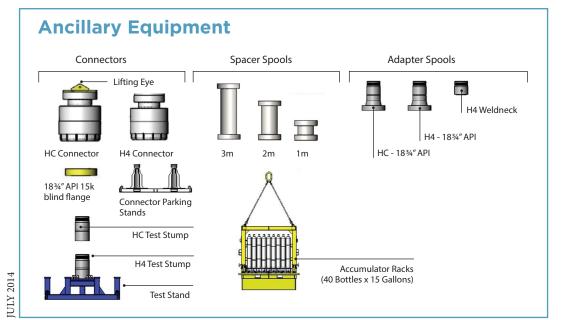




SPECIFICATION

7¹/₁₆" 10k Capping Device and 18³/₄" 15k Capping Device

Design Pressure	10 kpsi / 15 kpsi
Design Life	20 years (storage),
	6 months (flowing),
	2 years (shut)
Water Depth	Up to 3000m
Flow Rate	0 to 100 kbd of liquid
GOR	0 to 2000 scf/stb
Design Temp	-2°C to 150°C
	(Operation),
	-20°C to 40°C
	(Storage)
CO2	0 to 10%
H2S	0 to 500 ppm
Water Cut	Up to 30%
Injection	Dispersant and Hydrate
	Inhibitor (150 L/min)
Outlets	4 outlets, each with dual
	5 ¹ / ₈ " Gate Valves
	578 Gale valves
Sealing Device	10k Stack: 2 x 71/16"
	Gate Valve (fail as is)/
	15k Stack: 2 x 18¾" Rams
Operation	Third-Party ROV
	(manual and hydraulic)
Measurements	Pressure and Temperature
Connectors	H4 and HC 18¾" 15kpsi
Adapter spools	H4 and HC 18¾" by 18¾"
	15 kpsi API flange
Flow Control	Retrievable Choke Valve
	on each outlet
Installation	Drill Pipe and /
Method	or Wire Line
Transportability	Air, Land and Sea
Tanaportability	, in, cana and sea
Material	NACE MR-0175 Zone 3





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