Composite Pumping Tree

Leading the Way in Pipeline Technology

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Since 1962, Stream-Flo Industries Ltd. has been a leader and innovator in the oilfield sector. Stream-Flo's first wellhead and oilfield products were marketed in response to a need for high quality products made to perform and endure in the most demanding environments.

Stream-Flo continues to be a world industry leader through continuous product development, backed by professional engineers, designers and technicians. Together, they develop, design and produce leading-edge solutions and quality products to make Stream-Flo Industries Ltd. an internationally recognized leader in the wellhead industry.

Stream-Flo's Crown Composite Pumping Tree (CPT) combines the tubing head adapter, production blow out preventer (BOP), pumping tee and studded top connection into one solid compact unit. This new design is compact, solid and secure, providing distinct advantages over traditional christmas tree arrangements.

Reduced Height Saves You Time and Money The Crown CPT is approximately 50% shorter than the standard threaded components, giving easy access to the stuffing box and top drive motor mounted above the wellhead.

The reduced height also makes access for servicing the top drive much easier, slashing service time and cutting maintenance costs. Plus, the reduced height eliminates misalignment often experienced with threaded or welded assemblies of the previous standard.

Eliminates Vibration Failures A studded connection is provided at the top of the Crown CPT to support the motor used in progressive cavity pumping (PCP) applications. The solid compact design also helps to reduce vibration of the tree associated with PCP drive units which often leads to premature stuffing box wear.

Patented Design Five patents and patents pending have been awarded to Stream-Flo's unique and innovative Crown CPT design. Our commitment to ongoing research and development ensures that our customers receive leading-edge products, today and in the future.

Custom Designs Available Custom designs are available, including multi-string completions, combination progressive cavity pump and electrical submersible pump, coil tubing side-entry access and extreme environment applications.

New and More Versatile Ram Design
Stream-Flo rams are designed to fit a specific or range of rod diameters from 0 to 1½", or to seal blind with no rod. Rams provide improved shut-off characteristics for low-working pressures and for full-working pressures up to 3000 psi.

A full range of metal materials is available for standard, low temperatures, high temperature and NACE applications. Rubber components are supplied as per the materials listed.

olid Secure

Polymer	Characteristics	Temp Range
NBR (Nitrile)	excellent resistance to petroleum fluids	-40° to 275° F -40° to 135° C
HSN (Highly Saturated Nitrile)	improved chemical resistance	-40° to 300° F -40° to 149° C
Fluorocarbon (Viton[1])	increased chemical and heat resistance	-20° to 400° F -29° to 204° C
TFE/P (Aflas[2])	wider range of chemical and heat resistance	-23° to 450°F -31° to 232° C
PTFE (Teflon[3])	vastly improved chemical resistance	-50° to 450° F -46° to 232° C

1 *Registered trademark of DuPont Dow Elastomers*
2 *Registered trademark of the Asahi Glass Company*
3 *Registered trademark of DuPont Company*

Manual BOP Designs

Type R Basic manually-operated design available with patented rams for pressure up to 2000 psi, steel-reinforced rams for pressures up to 3000 psi, low pressure rams for pressure up to 1500 psi, and sealing on rods from 1 to 1½" in diameter.

Type B Pressure-balanced design for improved operations of rams with high production pressure up to 3000 psi.

Type C For high-temperature applications, this design is easy to operate and uses a combination of metallic and non-elastomeric materials in the ram construction. This model will withstand temperatures up to 650° F and pressure conditions up to 3000 psi.

Type D The oval-shaped ram design allows a further reduction in the overall height. Pressure-balanced design for pressures up to 3000 psi.

Type EM Manual operated design for critical environments where elastomers can't survive. Seals are PTFE-based for both the end cap seals to atmosphere and the vertical bore (well control) seal on the polished rod. The manual end cap uses stick packing to energize v-shaped (PTFE) stem packing. Pressure-balance ram design for pressures up to 1500 psi.

Hydraulic BOP Designs

Type H Hydraulically/manually operated design is available with patented rams for pressures up to 2000 psi, steel-reinforced rams for pressures up to 3000 psi, low-pressure rams for pressures up to 1500 psi, and sealing on rods from 0 to 1½" in diameter.

Type EH Hydraulically/manually operated design for critical environments where elastomers can't survive. Seals are PTFE based for both the face plate seals to atmosphere and the vertical bore (well control) seal on the polished rod. The external hydraulic actuator can be removed under well pressure for maintenance or replacement. Pressure-balance ram design for pressures up to 1500 psi.

BASIC SPECIFICATIONS

API 6A Sizes:
- 2 1/16" to 13 5/18" bottom
- 2 1/16" to 5 1/8" top

Pressure Ratings:
- 1500 to 3000 psi

Trims:
- carbon steel
- stainless steel
- corrosion-resistant alloys
- overlays

Specification Compliances:
- ISO 9001
- API 6A & Q1
- NACE MR-01-75

Temperature:
- ranges up to 650°F

Applications
- artificial lift
- progressive cavity pump
- conventional beam pumping
- high water cut, low production oil wells
- low production oil wells with entrained sand

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