Wellhead Products

Invention, Unique Design and Extraordinary Craftsmanship
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Wellhead Systems

Typical Xmas Tree System

Y-Block Xmas Tree System

Magnum Wellhead & Xmas Tree System w/ metal to metal seals
Since its founding, WOM has maintained the objective of providing our customers with the most reliable pressure and flow control products in the industry, developed through technology, innovation, and quality. To enable customers to sustain their operations and gain the most value from WOM products, factory authorized service centers are located strategically through-out the world, including North America, Europe, Far East, Southeast Asia, South America, Mexico, and the Middle East.

The Patented Magnum Gate Valve, the key component of any WOM wellhead system, provides the most reliable long-term seal and lowest lifecycle costs.

WOM designs, manufactures, and supplies Wellhead and Christmas Tree Systems of all sizes, working pressures, and trims.
WOM’s vast offering of Casing Head designs guarantee that our equipment is compatible with any industry-standard system. WOM’s Casing Heads can be used in onshore and offshore environments, for general and sour service and in conventional or specialty wellhead systems.

**WC-22 and WC-29 Casing Heads**

WOM’s WC-22 and WC-29 casing heads feature a versatile straight bore design that can accept a wide variety of slip and mandrel type casing hangers.

The WC-29 casing head has a deeper bowl design which allows the use of the WC-29 casing hanger for heavier casing loads.
Optional Bottom Connections, Outlets, Options

WOM’s WC-22 and WC-29 casing heads can be furnished with female threaded bottom or slip-on weld bottoms. Standard outlets are threaded, but can be furnished with flanged or studded outlets. Other available options include clamp hubs, lock-down screws, and base plates. WOM WC-22 and WC-29 casing heads provide interchange ability of casing hangers (WC-22: WC-21 and WC-22 casing hangers and WC-29 Casing head: WC-22 with H packoff and WC-29). If a bowl protector is required, the WC-22-BP casing head is recommended with two lock-down screws in the top flange. As an alternative, a hold down flange with lock down screws can be used.

WOM’s WC-22 and WC-29 casing heads can be furnished with female threaded, SOW (slip-on weld) or SLIP LOCK bottom preparation.

Features and Benefits

- Manufactured to API 6A and available in nominal flange sizes of 11”, 13 5/8” and 21-1/4” in pressure ratings to 10,000 psi
- Available with two lockscrews/full sets of lockscrews or without lockscrews
- Optional bottom preparation including slip-on weld (SOW), Threaded bottom, or Slip Lock bottom preparation
- PSL-1 to 3 certified
- PR-1 and PR-2 certified
- Available trims in DD-NL, EE-NL, FF-NL, and HH-NL
- Optional Landing Base Plate assembly available for 20” to 30” conductor pipe
WC-22 and WC-29 Casing Head Spools
WOM’s WC-22 and WC-29 casing heads feature a versatile straight bore design that can accept a wide variety of slip and mandrel type casing hangers. WOM’s Casing Head Spools can be used in onshore and offshore environments, for general and sour service and in conventional or specialty wellhead systems.

The WC-29 Casing Spool has a deeper bowl design which allows the use of the WC-29 Casing Hanger for heavier casing loads.

Optional Bottom Connections, Outlets, Options
WOM’s WC-22 casing spools can be furnished with integral “OO”, “P”, “PP” seals and “X-bushing, “PE” bushing, “4-0” bushing, and metal-to-metal preparations. Standard outlets are studded with internal VR Threads, but can be furnished with flanged or threaded outlets. Available options include clamp hubs, lock-down screws.

WOM WC-22 casing spool provide interchangeability of casing hangers (WC-21 and WC-22). If a bowl protector is required, the WC-22-BP casing spool is recommended with two lock-down screws in the top flange. As an alternative, a hold-down flange with lock-down screws can be used.

WOM WC-29 casing spool provide interchangeability of casing hangers (WC-22 and “H” Packoff and WC-29).
Features and Benefits

• Available in nominal flange sizes from 11” to 13-5/8” and pressures ratings to 15,000 psi

• Manufactured to API 6A specification or customize to meet customer requirements.

• Outlet options available to meet customer requirements

• Available with two lockscrews/full sets of lockscrews or without lockscrews

• Optional integral double FS-Seal, P-Seal, and metal-to-metal seal bottom preparation for high pressure and high temperature (HTHP) application
WTC Tubing Head Spools

WOM’s WTC series tubing spools feature a versatile straight bore design for single and multiple completions in working pressures through 20,000 psi. This design accepts all WTC series tubing hangers and easily converts from a single completion to multiple completion with the addition of an alignment pin or pins.

Optional Bottom Preparations, Outlets, Option

WOM’s WTC series tubing spools can be furnished with integral “OO”, “P” and “PP” seals, “X” bushing, “PE” bushing, “4-0” bushing, and metal to metal preparations. Standard outlets are studded, but can be furnished with flanged or threaded outlets. Available options include clamp hubs. WOM WTC series tubing spools accept a wide range of tubing hanger styles including mandrel and wrap-around.

WOM’s WTC series tubing hangers are available for tubing sizes ranging from 2-3/8” through 4-1/2”, in nominal od sizes from 7-1/16” through 13-5/8”.
**Tubing Head Spools**

**Features and Benefits**

- Available in nominal flange sizes from 7-1/16” to 11 and pressures ratings to 20,000 psi
- Designed to accept WC-21, WC-22 and WC-29 casing slip hanger and tubing hangers
- Outlet options available to meet customer requirements
- Available with full sets of lock Screws
- Optional integral single or double Down Hole control Line (DHCL) preparation
- Optional integral double FS-Seal, P-Seal and interchangeable metal-to-metal seal bottom preparation for HTHP application

![WTC-22-MS2-ET-CL Tubing Head Spool](image1)

![WTC-22-FS-ET Tubing Head Spool](image2)

![WTC-22-FS-ET-AL Tubing Head Spool](image3)
SECONDARY SEAL PACK OFF

Secondary Seal Pack Off
WOM offers a wide range of secondary seals for the WC-22 and WC 29 casing and tubing spools. These can be integral or complete seal bushings, pressure energized or plastic injected, that are inserted in the bottom of WOM’s casing/tubing spools.

Casing Hangers

WOM’s WC-21 non-automatic split casing hanger suspends the casing while incorporating the Type H packoff as the annulus seal.

WOM’s WC-22 automatic wrap around casing hangers incorporate a lower packoff, slip bowl, and a single set of slips.

WOM’s WC-29 automatic wrap around casing hangers incorporate a lower packoff, slip bowl and double slip segments. The WC-29 casing hanger is designed to handle heavier casing loads.
WOM WELLHEAD PRODUCTS

TUBING HEAD ADAPTERS

TUBING HANGERS

TUBING HEADS

SECONDARY SEAL PACK OFF
**Tubing Hangers**

WOM Tubing Hangers allow for nipping up/down the Christmas tree without blowout preventer (BOP) protection. WOM Tubing Hangers feature an annulus compression elastomer seal pack off or an optional annulus metal-to-metal seal energized by a compression ring.

**Features and Benefits**

- Available in nominal sizes from 7-1/16” to 11” and pressure ratings to 20,000

- Manufactured to API-6A specifications with stainless or Inconel body material and can be customized

- Extended Neck with multiple elastomer type seals or optional metal-to-metal seals are available for high temperature and high pressure (HTHP) application

- Annulus compression elastomer seal pack off or optional annulus metal-to-metal seal are energizing by compression ring

- Available with internal or external running and retrieving thread

- Standard type “H” Back Pressure Valve (VPV) preparation

- Available with API or Premium bottom internal thread

- Available with or without continuous and non-continuous Down Hole control Line (DHCDL) preparation
Tubing Head Adapters

WOM Tubing Head Adapters are suitable for conventional and specialty wellhead systems, onshore and offshore and general and sour service applications. Designed for containing pressure and fluids within the tubing bore. WOM Tubing Head Adapters are fully customizable for the project at hand. Options include continuous or non-continuous Down Hole Control Line inlet preparation and integral manual or actuated Lower Master Valve.

Features and Benefits

- Available in studded or flange bottom sizes from 7-1/16” to 11” and studded or flange top sizes from 2-1/16” to 4-1/16”, with pressure ratings for both to 20,000 psi
- PSL-1 to 3G certified
- PR-1 certified
- Available trims: DD-NL, EE-NL, FF-NL and HH-Nl
- Available with S-Seal or metal-to-metal seal bottom preparation
- Available with or without continuous and non-continuous Down Hole Control Line (DHCL) inlet preparation
- Available with integral manual or actuated Lower Master Valve
WOM’s SPII™ Compact Wellhead is a single-piece, compact wellhead system developed to accommodate to different requirements of working pressure and casing programs. The SPII™ Wellhead uses a minimum number of components all which are interchangeable within the system resulting in reduced installation time, possible leak paths and overall costs.

**Features and Benefits**

- Compact design saves space and permits the use of smaller platforms at a reduced cost
- Nominal size 9”, 11”, 13-5/8” or 18-3/4 and pressure rating of 5,000 psi or 10,000 psi
- Available in 2 or 3 stage hanger systems
- “WQ” Quick connector on housing top connection
- Casing programs offer flexibility and can be easily changed on site
- Fluted mandrel-type hangers for effective cementing flow-by
- Mandrel-type hangers offer complete BOP control, eliminating work under BOP stack and enhancing safety
- Internal lockdown for hangers
- Same pack-off for all sizes of mandrel hangers
- Elastomeric and metal seal assemblies are interchangeable
- Design based on field-proven and fully tested technology
- Enhanced safety with minimum through-wall penetrations
- Cold cut option is available for emergency purposes
- Designed to meet API 6A, latest edition to PSL 1-4, Temperature Rating 0°-350° F and Material Classification AA-HH meet NACE requirements
Multi-Completion (WMC™) Wellhead System

WOM WMC™ Wellhead System combines two or more wellhead systems, providing the ability to reach multiple pay zones, from a single conductor.

Features and Benefits

- WMCTM Wellhead System is WOM’s field-proven SPTM Wellhead, that offers a compact, safe and reliable solution to multiple completion projects
- Fewer connections in the system results in significant rig time reduction
- Reduced envelope dimension allows for smaller platform requirement
- Various casing separation methods are available to meet specific drilling requirement
- Full metal to metal (MTM) seal completion is available
- Available in 2-in-1 and 3-in-1 configurations
- Individual wellheads can be configured to have a 9”, 11”, or 13-5/8” nominal size, up to a 10,000 psi pressure rating and a temperature range of -75°F to 250°F
- Manufacturing meets API Spec. 6A standards, and can be specified to meet at the material class, temperature class, and PSL level requirements of this specification
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Rev. 2016