

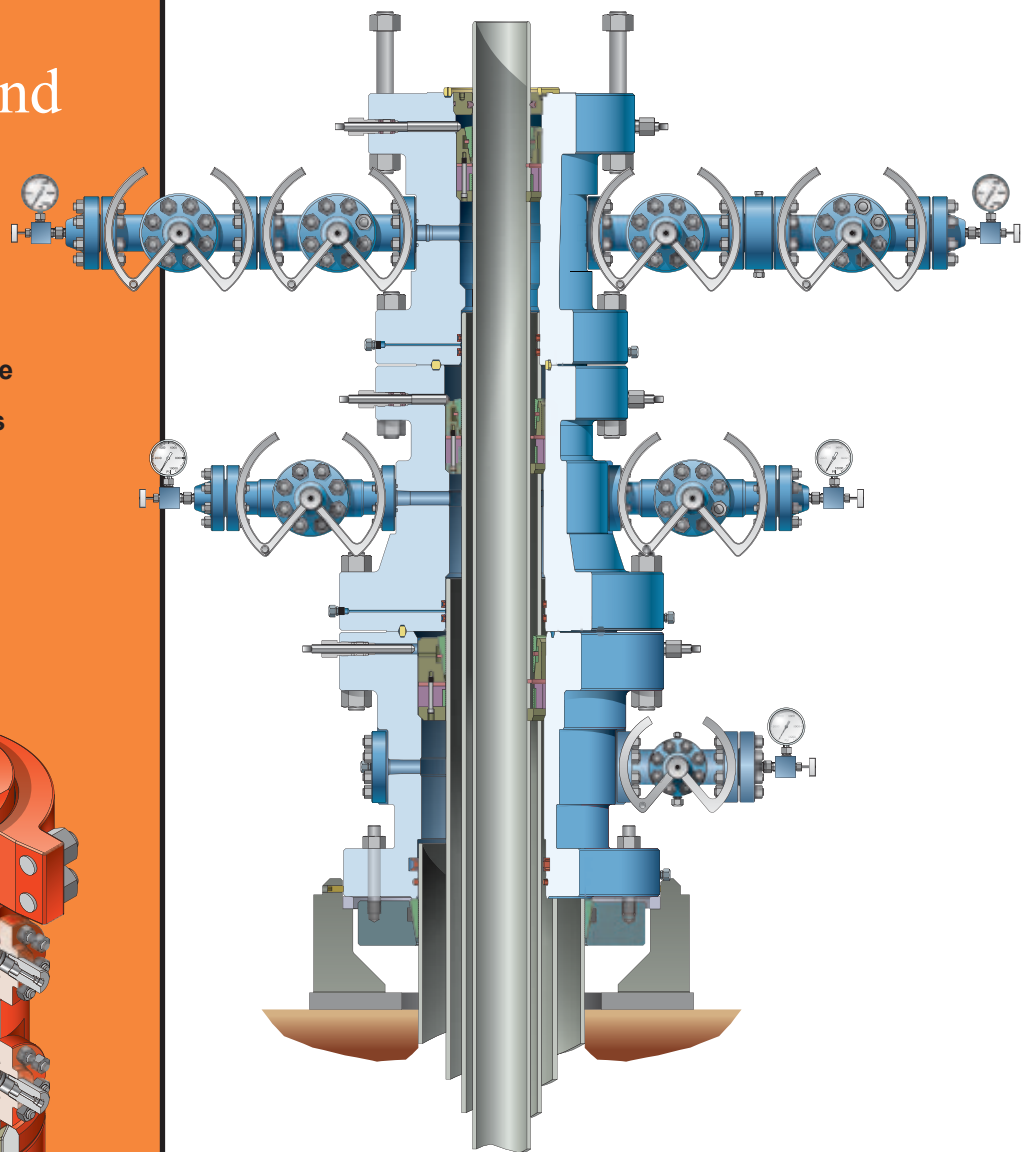
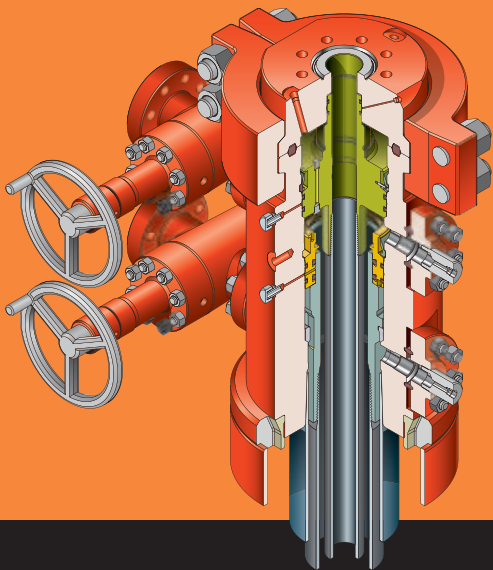
Worldwide Oilfield Machine

Wellhead Products



Invention,
Innovation, and
Engineering
Creativity

- Subsea Intervention Systems
- Custom Design & Manufacture
- Wellheads & Christmas Trees
- Magnum Gate Valves
- Blow Out Preventers
- Manifold Systems
- Ball Valves
- Well Test Products





Wellhead Products

Table of Contents

Introduction	3
Casing Heads	
WC-22 Casing Head	4
WC-29 Casing Head	6
Casing Spools	
WC-22 Casing Spool	8
WC-29 Casing Spool	10
Tubing Spools	
WTC Series Tubing Spools	12
Casing Hangers	
WC-21, WC-22, WC-29 Casing Hangers	14
Secondary Seals	15
Tubing Head Adapters & Misc. Components	16
Custom Design and Manufacture	17
Typical WOM Wellhead Systems	18
WOM Gate Valves	19
WOM Customer Locations	20

As a manufacturer of quality products, WOM provides factory authorized service on all of its products through strategically located Service Centers throughout the world. Particular emphasis has been placed on serving regions that are especially active in drilling, completion and production, such as North America, Europe, Far East, Southeast Asia, South America through Mexico, and the Middle East.

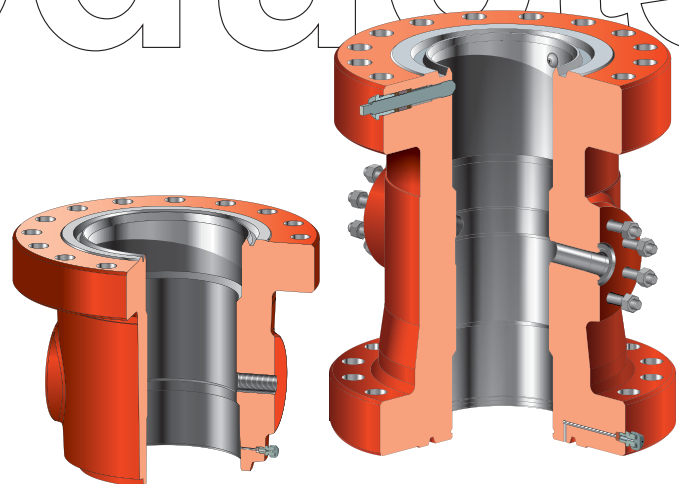
Since its founding, WOM's entire staff has focused on a single objective: to provide our customers with the most reliable flow control products developed through technology, innovation, and quality.

WOM is a full line manufacturer with API Q1, 6A (PSL-1 through PSL-4), 16A, 17D, and ISO certification. With the "Patented" Magnum Gate Valve at the heart of any wellhead system, you get reliable, long term seal and low maintenance advantages.

The WC-22 wellhead system is WOM's standard design for outstanding service in land and offshore applications. The WC-22 wellhead system can be built to meet specific requirements for pressures from 2,000 psi through 20,000 psi, with Metal-to-Metal Seal Technology being standard on high pressure applications.

WOM designs, manufactures, and supplies Wellhead and Christmas Tree Systems of all sizes, working pressures, and trims. WOM has (6) manufacturing plants with strategic locations. WOM can supply your equipment needs-Worldwide.

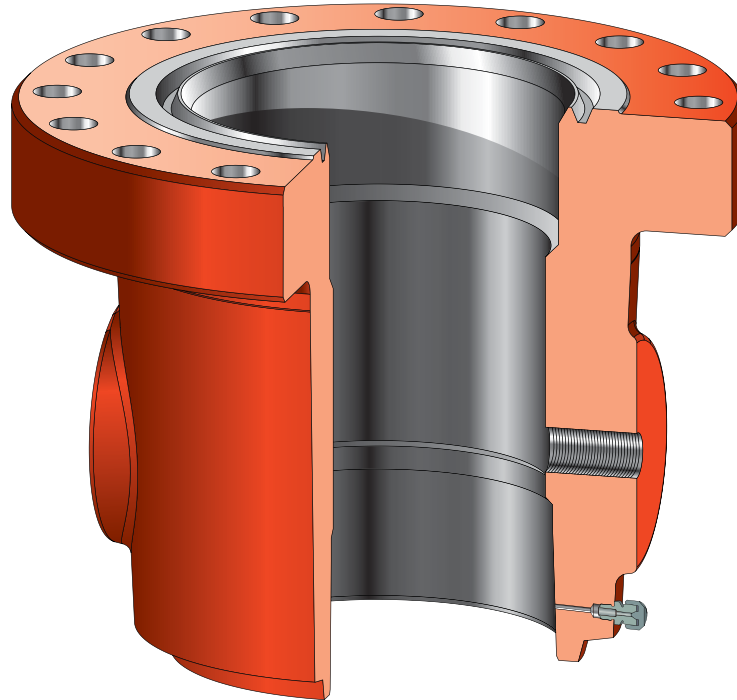
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WC-22 Casing Heads



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

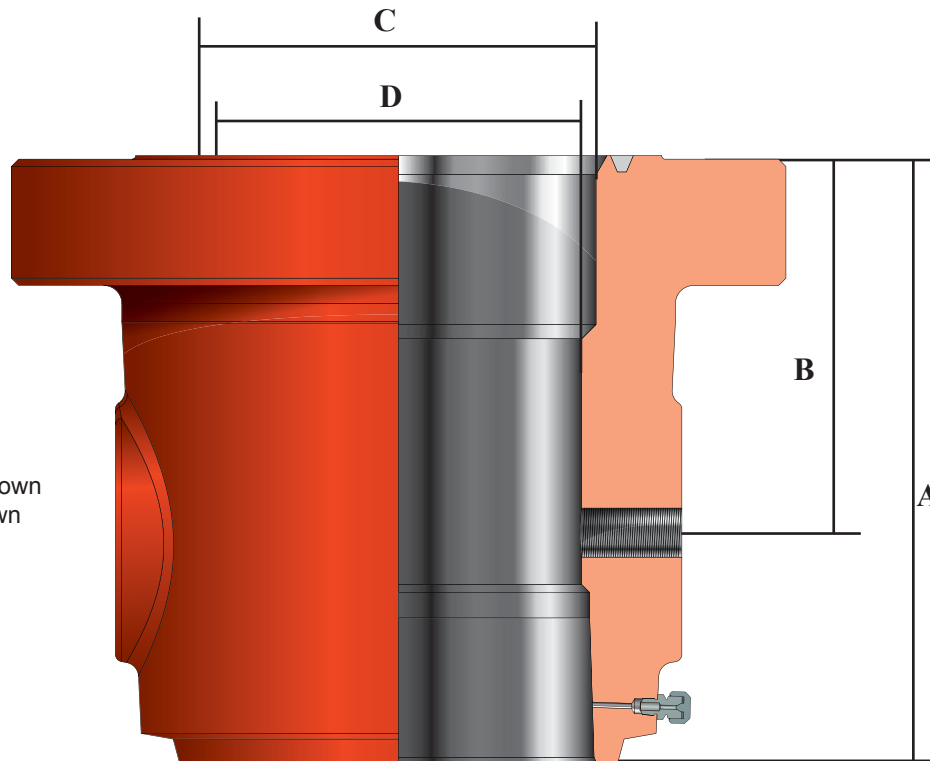
Straight Bore Design

WOM's WC-22 design features a 45 degree landing shoulder. This design avoids damage to sealing areas by drilling tools and prevents test plug and bowl protector wedging problems when pressure is applied. The straight bore design reduces maintenance costs and provides suspension for heavy loads.

Optional Bottom Connections, Outlets, Options

WOM's WC-22 casing heads can be furnished with female threaded bottom or slip-on weld bottoms. Standard outlets are threaded, but can be furnished as flanged or studded outlets. Other available options include clamp hubs, lock-down screws, and base plates. WOM WC-22 casing heads provide interchangeability of casing hangers (WC-21 and WC-22). 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.

WC-22 Casing Heads



Available Top Flange Configurations:

WC-22: No lockdown screws

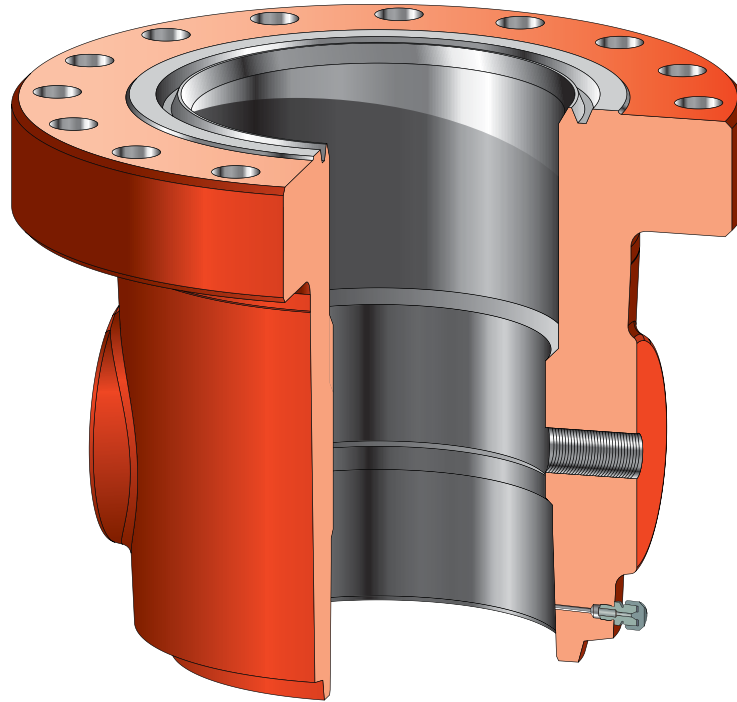
WC-22-BP: Two lockdown screws for holding down Bowl Protector

Flange Size	Working Pressure	Casing Size	A	B	C	D	Approximate Weight
11"	3000	8-5/8"	17"	10-1/8"	10-7/8"	8"	535 lbs
11"	3000	9-5/8"	17"	10-1/8"	10-7/8"	9"	525 lbs
11"	3000	10-3/4"	16"	10-1/8"	10-7/8"	10"	490 lbs
11"	5000	8-5/8"	17"	10-1/2"	10-7/8"	8"	685 lbs
11"	5000	9-5/8"	17"	10-1/2"	10-7/8"	9"	680 lbs
11"	5000	10-3/4"	17"	10-1/2"	10-7/8"	10"	670 lbs
13-5/8"	2000	11-3/4"	17"	10-1/4"	13-1/2"	11"	445 lbs
13-5/8"	2000	13-3/8"	16"	10-1/4"	13-1/2"	12-1/2"	425 lbs
13-5/8"	3000	11-3/4"	17"	10-1/4"	13-1/2"	11"	585 lbs
13-5/8"	3000	13-3/8"	17"	10-1/4"	13-1/2"	12-1/2"	570 lbs
13-5/8"	5000	13-3/8"	19"	10-1/4"	13-1/2"	12-3/8"	1000 lbs
16-3/4"	2000	13-3/8"	19"	10-1/2"	16-5/8"	12-1/2"	810 lbs
16-3/4"	2000	16"	19"	10-1/2"	16-5/8"	15-1/4"	735 lbs
16-3/4"	3000	13-3/8"	20"	10-5/8"	16-5/8"	12-1/2"	950 lbs
16-3/4"	3000	16"	20"	10-5/8"	16-5/8"	15"	820 lbs
21-1/4"	2000	18-5/8"	20"	10-1/4"	20-1/8"	18"	1205 lbs
21-1/4"	2000	20"	20"	10-1/4"	20-1/8"	19"	1050 lbs
20-3/4"	3000	18-5/8"	23"	15"	20-1/8"	18"	1422 lbs
20-3/4"	3000	20"	23"	15"	20-1/8"	19"	1322 lbs



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WC-29 Casing Head



WOM's WC-29 casing heads also 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.

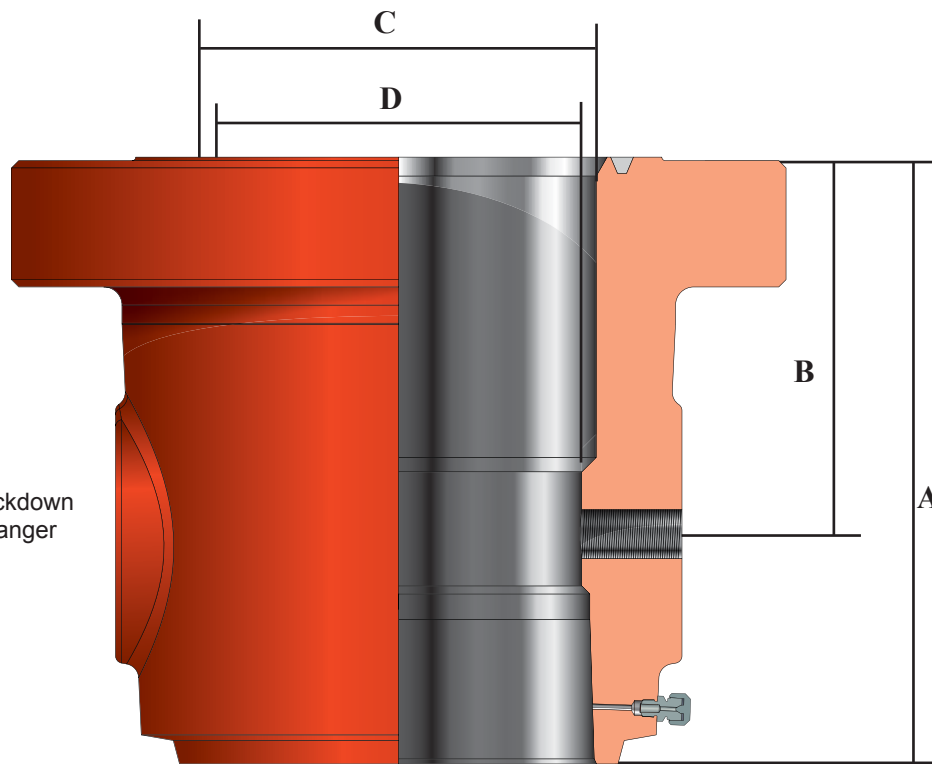
Straight Bore Design

WOM's WC-29 design features a 45 degree landing shoulder. This design avoids damage to sealing areas by drilling tools and prevents test plug and bowl protector wedging problems when pressure is applied. The straight bore design reduces maintenance costs and provides suspension for heavy loads.

Optional Bottom Connections, Outlets, Options

WOM's WC-29 casing heads can be furnished with female threaded bottom, or slip-on weld bottom. Standard outlets are threaded, but can be furnished with flanged or studded outlets. Available options include clamp hubs, lock-down screws, and base plates. WOM WC-29 casing heads provide interchangeability of casing hangers (WC-22 with H packoff and WC-29).

WC-29 Casing Head



Available Top Flange Configurations:

WC-29: No lockdown screws

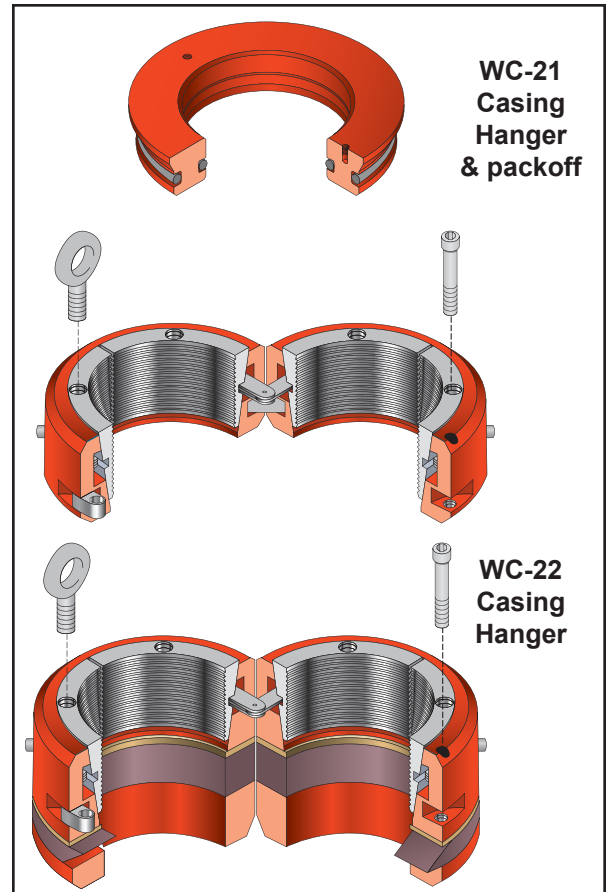
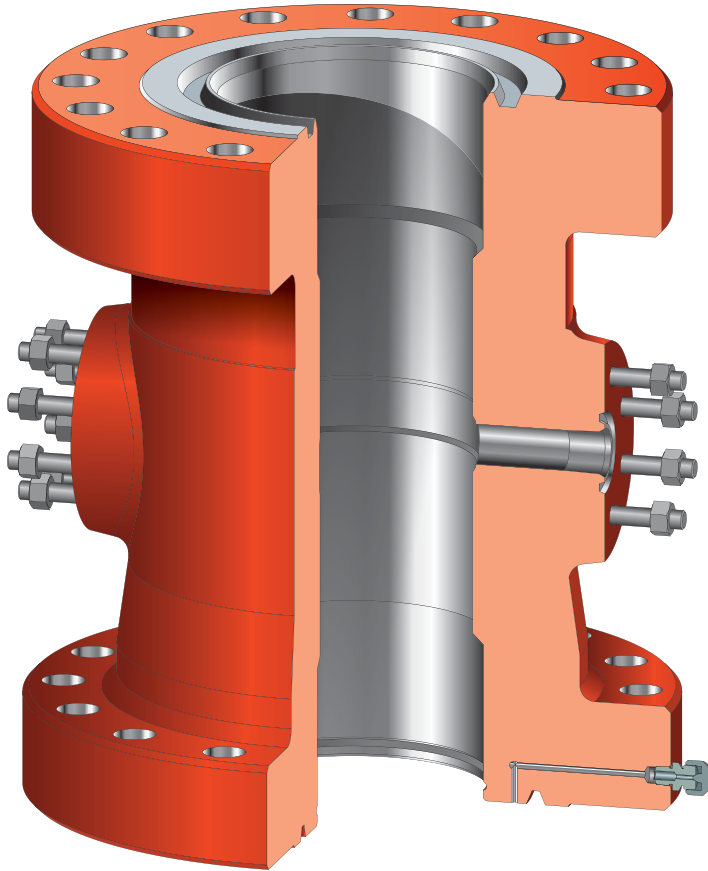
WC-29-L: Multiple lockdown screws to energize hanger packoff

Flange Size	Working Pressure	Casing Size	A	B	C	D	Approximate Weight
11"	3000	8-5/8"	20"	12-1/8"	10-7/8"	8"	565 lbs
11"	3000	9-5/8"	20"	12-1/8"	10-7/8"	9"	545 lbs
11"	3000	10-3/4"	20"	12-1/8"	10-7/8"	10"	520 lbs
11"	5000	8-5/8"	20"	12-1/2"	10-7/8"	8"	6780 lbs
11"	5000	9-5/8"	20"	12-1/2"	10-7/8"	9"	760 lbs
11"	5000	10-3/4"	20"	12-1/2"	10-7/8"	10"	745 lbs
13-5/8"	3000	11-3/4"	21"	12-1/4"	13-1/2"	11"	800 lbs
13-5/8"	3000	13-3/8"	21"	12-1/4"	13-1/2"	12-1/2"	765 lbs
13-5/8"	5000	11-3/4"	22"	12-1/4"	13-1/2"	12-3/8"	1500 lbs
16-3/4"	2000	13-3/8"	19"	12-1/2"	16-5/8"	12-1/2"	980 lbs
16-3/4"	2000	16"	21"	12-1/2"	16-5/8"	15-1/4"	880 lbs
16-3/4"	3000	13-3/8"	22"	12-5/8"	16-5/8"	12-1/2"	995 lbs
16-3/4"	3000	16"	22"	12-5/8"	16-5/8"	15"	895 lbs
21-1/4"	2000	18-5/8"	20"	12-1/4"	20-1/8"	18"	1300 lbs
21-1/4"	2000	20"	22"	12-1/4"	20-1/8"	19"	1150 lbs
20-3/4"	3000	18-5/8"	25"	17"	20-1/8"	18"	1522 lbs
20-3/4"	3000	20"	25"	17"	20-1/8"	19"	1422 lbs



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WC-22 Casing Spools



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

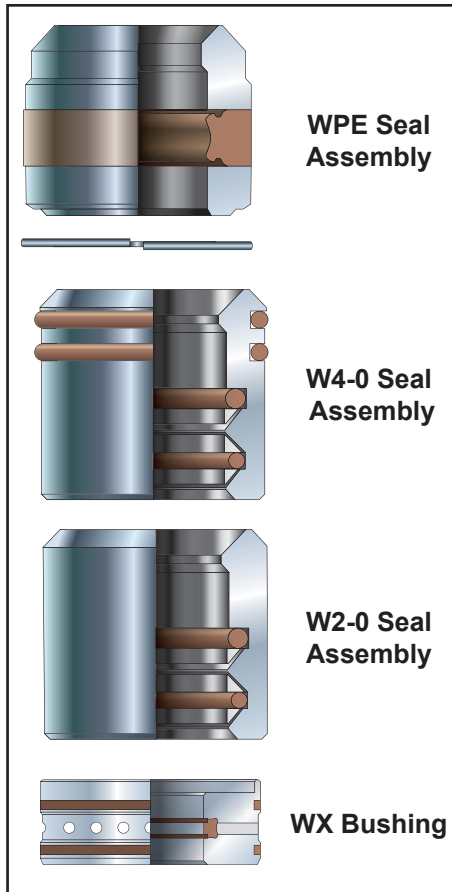
Straight Bore Design

WOM's WC-22 design features a 45 degree landing shoulder. This design avoids damage to sealing areas by drilling tools and prevents test plug and bowl protector wedging problems when pressure is applied. The straight bore design reduces maintenance costs and provides suspension for heavy loads.

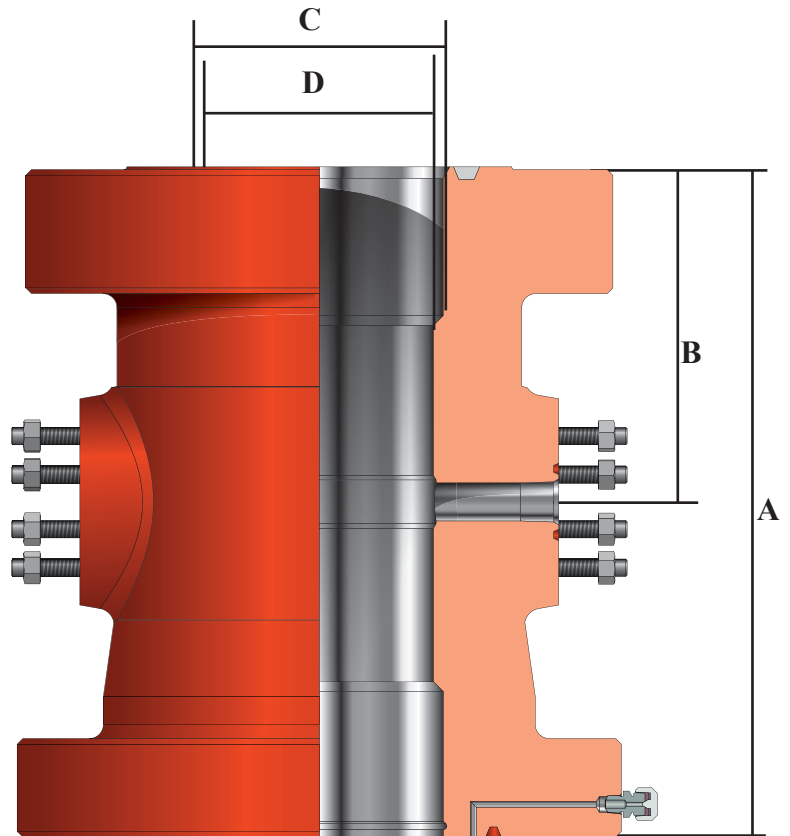
Optional Bottom Preparations, Outlets, Options

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.

WC-22 Casing Spools



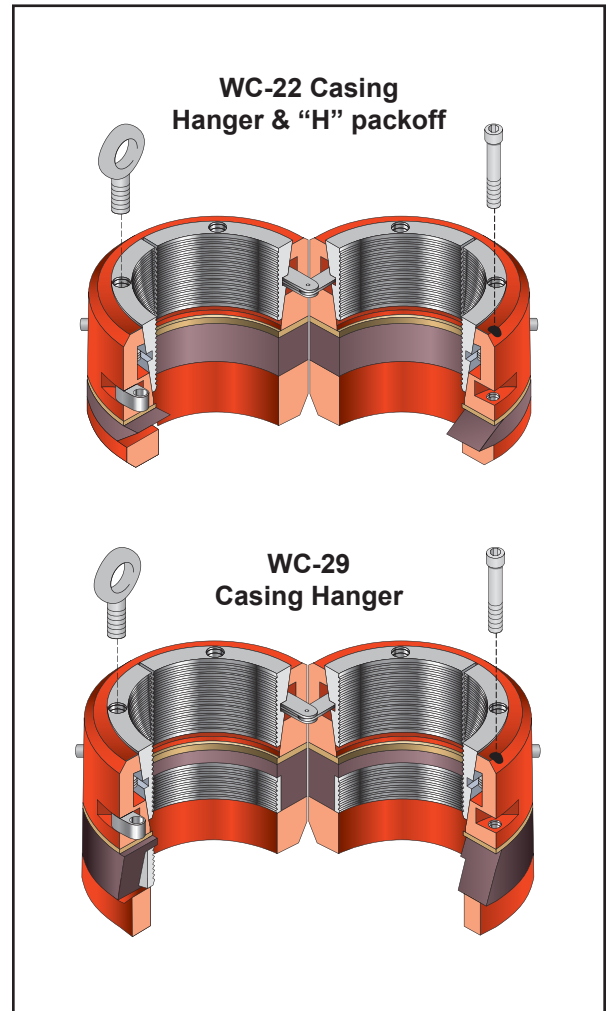
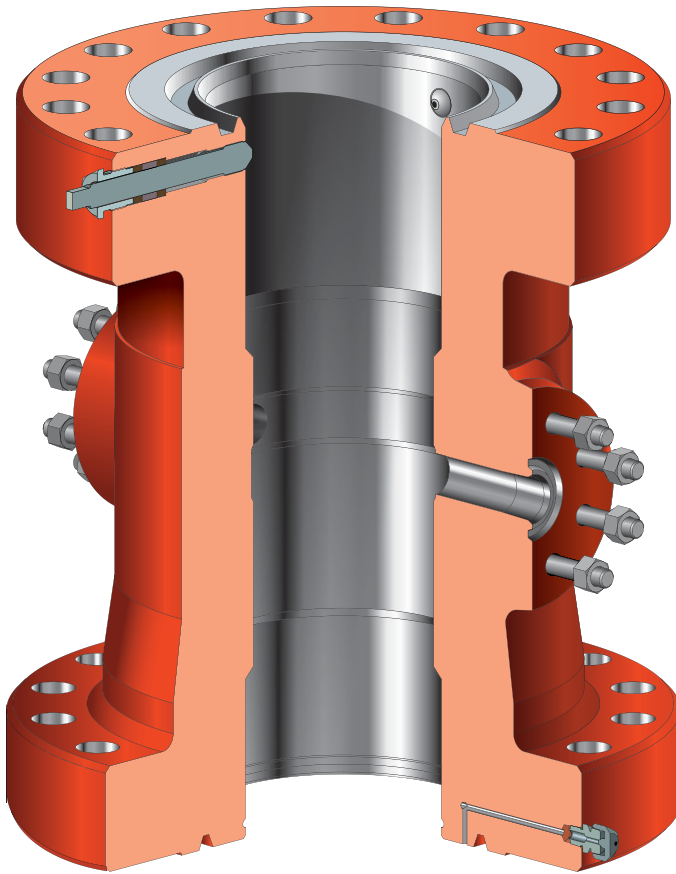
Available Top Flange Configurations:
 WC-22: No lockdown screws
 WC-22-BP: Two lockdown screws



Flange Size	Working Pressure	Top Flange Size	Working Pressure	Outlet	A	B	C	D	Approximate Weight
11"	3000	11"	3000	2-1/16" Std	20-5/8"	10-1/4"	10-7/8"	10"	755 lbs
11"	3000	11"	5000	2-1/16" Std	22-1/4"	10-7/8"	10-7/8"	10"	835 lbs
11"	5000	11"	5000	2-1/16" Std	23-7/8"	10-7/8"	10-7/8"	10"	910 lbs
13-5/8"	2000	11"	3000	2-1/16" Std	19-1/2"	10-7/8"	10-7/8"	10"	744 lbs
13-5/8"	3000	11"	3000	2-1/16" Std	22-5/8"	10-7/8"	10-7/8"	10"	744 lbs
13-5/8"	5000	13-5/8"	3000	2-1/16" Std	23"	13-1/2"	13-1/2"	12-1/2"	1136 lbs
13-5/8"	3000	11"	5000	2-1/16" Std	25-1/4"	12-3/4"	13-1/2"	10"	1168 lbs
13-5/8"	3000	13-5/8"	5000	2-1/16" Std	25-1/4"	12-1/8"	13-1/2"	12-3/8"	1450 lbs
13-5/8"	5000	11"	5000	2-1/16" Std	25-1/8"	12-3/4"	10-7/8"	10"	1430 lbs
13-5/8"	5000	11"	10000	1-13/16" Std	26"	13-1/2"	10-7/8"	9"	1631 lbs
13-5/8"	2000	11"	3000	2-1/16" Std	17-1/4"	10-3/4"	10-7/8"	10"	1285 lbs
16-3/4"	3000	11"	3000	2-1/16" Std	17-7/8"	10-3/4"	10-7/8"	10"	1305 lbs
16-3/4"	3000	11"	5000	2-1/16" Std	24-5/8"	12-3/4"	10-7/8"	10"	1465 lbs
16-3/4"	3000	13-5/8"	3000	2-1/16" Std	24-1/2"	10-5/8"	13-1/2"	12-1/2"	1408 lbs
16-3/4"	3000	13-5/8"	5000	2-1/16" Std	25-1/2"	12-1/8"	13-1/2"	12-3/8"	1690 lbs
21-1/4"	2000	13-5/8"	3000	2-1/16" Std	26-3/4"	10-5/8"	13-1/2"	12-1/2"	1755 lbs
20-3/4"	3000	13-5/8"	3000	2-1/16" Std	27-5/8"	10-5/8"	13-1/2"	12-1/2"	1855 lbs
20-3/4"	3000	13-5/8"	5000	2-1/16" Std	28-5/8"	12-1/8"	13-1/2"	12-3/8"	1950 lbs



WC-29 Casing Spools



WOM's WC-29 casing spools feature a versatile straight bore design that can accept a wide variety of slip and mandrel type casing hangers. The WC-29 Casing Spool has a deeper bowl design which allows the use of the WC-29 Casing Hanger for heavier casing loads.

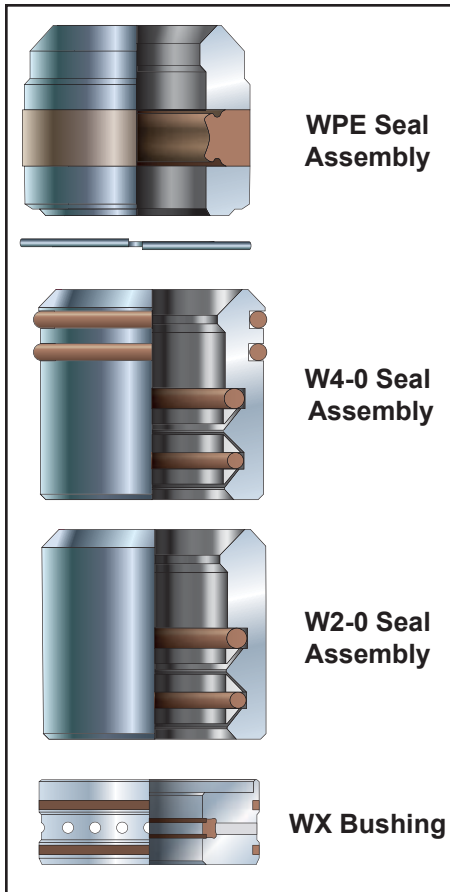
Straight Bore Design

WOM's WC-29 design features a 45 degree landing shoulder. This design avoids damage to sealing areas by drilling tools and prevents test plug and bowl protector wedging problems when pressure is applied. The straight bore design reduces maintenance costs and provides suspension for heavy loads.

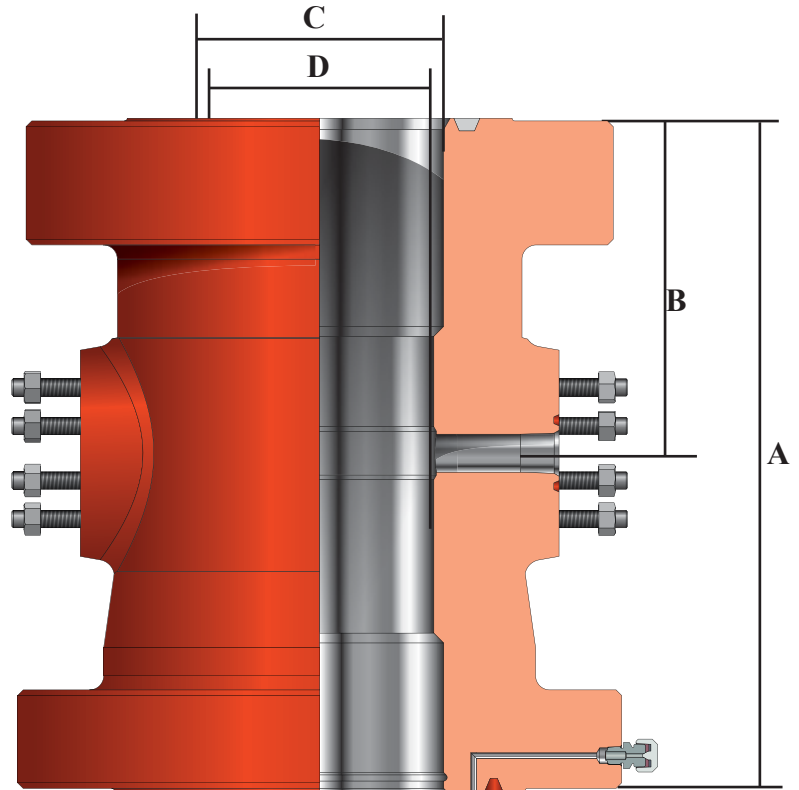
Optional Bottom Preparations, Outlets, Options

WOM's WC-29 casing spools can be furnished with integral "OO", "P", "PP" seals and "X-bushing", "PE" bushing, "4-0" bushings, and metal-to-metal preparations. Standard outlets are studded, but can be furnished with flanged or threaded outlets. Available options include clamp hubs and lock-down screws. WOM WC-29 casing spool provide interchangeability of casing hangers (WC-22 and "H" Packoff and WC-29).

WC-29 Casing Spools



Available Top Flange Configurations:
 WC-29: No lockdown screws
 WC-29-L: Multiple lockdown screws to energize hanger packoff

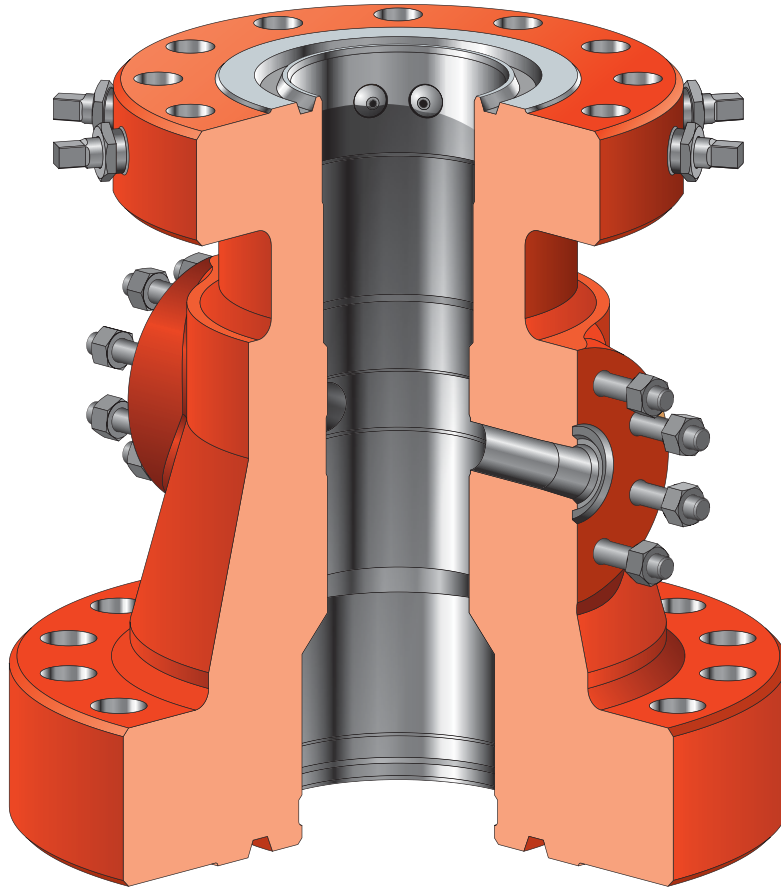


Flange Size	Working Pressure	Top Flange Size	Working Pressure	Outlet	A	B	C	D	Approximate Weight
11"	3000	11"	3000	2-1/16" Std	22-5/8"	12-1/4"	12-7/8"	10"	855 lbs
11"	3000	11"	5000	2-1/16" Std	24-1/4"	14-3/4"	12-7/8"	10"	935 lbs
11"	5000	11"	5000	2-1/16" Std	25-7/8"	14-3/4"	12-7/8"	10"	1010 lbs
13-5/8"	2000	11"	3000	2-1/16" Std	19-1/2"	12-1/4"	12-7/8"	10"	844 lbs
13-5/8"	3000	11"	3000	2-1/16" Std	24-5/8"	12-1/4"	12-7/8"	10"	899 lbs
13-5/8"	3000	13-5/8"	3000	2-1/16" Std	25"	12-5/8"	15-1/2"	12-1/2"	1236 lbs
13-5/8"	3000	11"	5000	2-1/16" Std	27-1/4"	12-3/4"	12-7/8"	10"	1268 lbs
13-5/8"	3000	13-5/8"	5000	2-1/16" Std	27-1/4"	14-1/8"	15-1/2"	12-3/8"	1550 lbs
13-5/8"	5000	11"	5000	2-1/16" Std	27-1/8"	14-3/4"	12-7/8"	10"	1530 lbs
13-5/8"	5000	11"	10000	1-13/16" Std	28"	15-1/2"	12-7/8"	9"	1731 lbs
16-3/4"	2000	11"	3000	2-1/16" Std	19-1/4"	14-1/4"	12-7/8"	10"	1385 lbs
16-3/4"	3000	11"	3000	2-1/16" Std	19-7/8"	12-1/4"	12-7/8"	10"	1405 lbs
16-3/4"	3000	11"	5000	2-1/16" Std	26-5/8"	14-3/4"	12-7/8"	10"	1565 lbs
16-3/4"	3000	13-5/8"	3000	2-1/16" Std	26-1/2"	12-5/8"	15-1/2"	12-1/2"	1508 lbs
16-3/4"	3000	13-5/8"	5000	2-1/16" Std	27-1/2"	14-1/8"	15-1/2"	12-3/8"	1790 lbs
21-1/4"	2000	13-5/8"	3000	2-1/16" Std	28-3/4"	12-5/8"	15-1/2"	12-1/2"	1855 lbs
20-3/4"	3000	13-5/8"	3000	2-1/16" Std	29-5/8"	12-5/8"	15-1/2"	12-1/2"	1955 lbs
20-3/4"	3000	13-5/8"	5000	2-1/16" Std	30-5/8"	14-1/8"	15-1/2"	12-3/8"	2050 lbs



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WTC, WTCM & WTC-60 Tubing 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, Options

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".

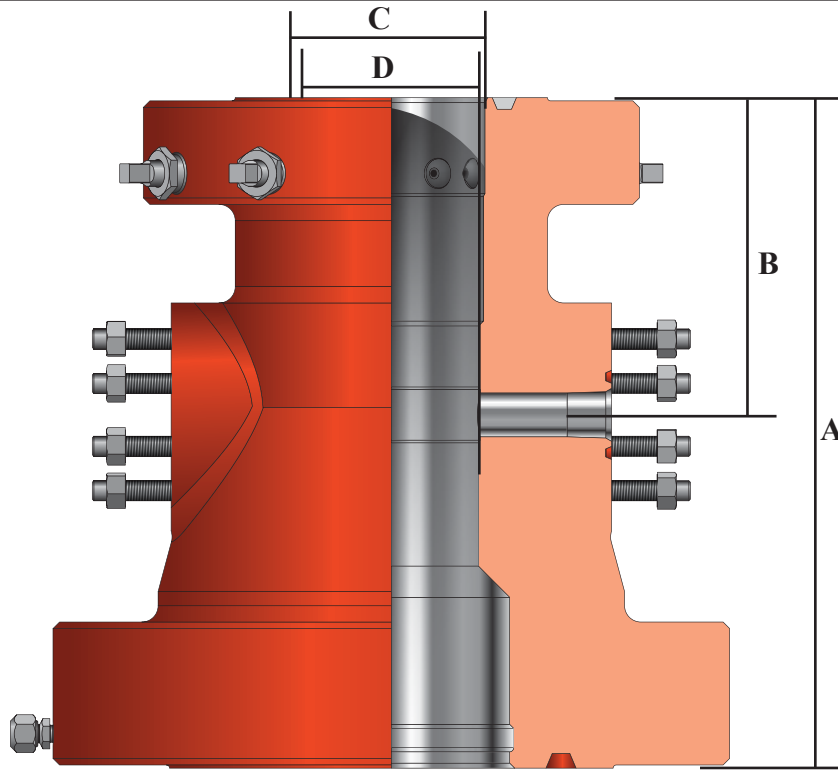
WTC Tubing Spools are used only with single-string TC Series Tubing Hangers and packoffs.

WTCM, and WTC-60 Tubing Spools can be used with all TC Series Tubing Hangers and packoffs, both single and dual-split style.

WTC, WTCM & WTC-60 Tubing Spools

Top Flange Configurations:

- WTC, No alignment pins
- WTCM (WTC-1), One alignment pin
- WTC-60 (WTC-3), Three alignment pins



Flange Size	Working Pressure	Top Flange Size	Working Pressure	Outlet	A	B	C	D	Approximate Weight
9"	2000	7-1/16"	2000	2-1/16" Std	16-11/16"	8-7/16"	7"	6-3/8"	355 lbs
9"	2000	7-1/16"	3000	2-1/16" Std	17"	9-3/4"	7"	6-3/8"	435 lbs
9"	3000	7-1/16"	2000	2-1/16" Std	18-13/16"	9-3/4"	7"	6-3/8"	535 lbs
11"	2000	7-1/16"	3000	2-1/16" Std	16-3/4"	9-7/16"	7"	6-3/8"	460 lbs
11"	2000	7-1/16"	3000	2-1/16" Std	18-13/16"	9-3/4"	7"	6-3/8"	555 lbs
11"	2000	9"	3000	2-1/16" Std	19-1/4"	9-9/16"	9"	8"	724 lbs
11"	3000	7-1/16"	3000	2-1/16" Std	19-1/16"	9-3/4"	7"	6-3/8"	605 lbs
11"	3000	9"	3000	2-1/16" Std	19-7/8"	9-13/16"	9"	8"	830 lbs
11"	3000	7-1/16"	3000	2-1/16" Std	20-3/16"	10-7/8"	7"	6-13/16"	675 lbs
11"	3000	9"	5000	2-1/16" Std	21-7/8"	11-9/16"	9"	8"	940 lbs
11"	5000	7-1/16"	5000	2-1/16" Std	21-13/16"	10-7/8"	7"	6-13/16"	880 lbs
11"	5000	9"	5000	1-13/16" Std	24-1/4"	11-9/16"	9"	8"	1020 lbs
11"	5000	7-1/16"	10000	1-13/16" Std	23-1/8"	10-3/4"	7"	6-13/16"	1170 lbs
11"	5000	9"	10000	1-13/16" Std	23-15/16"	11-9/16"	9"	8"	1250 lbs
11"	10000	7-1/16"	10000	1-13/16" Std	24-1/4"	11"	7"	8"	1425 lbs
11"	10000	9"	10000	1-13/16" Std	24-1/4"	11"	9"	6-13/16"	1700 lbs
11"	10000	7-1/16"	15000	1-13/16" Std	26-1/2"	12-1/8"	7"	8"	1710 lbs
11"	10000	9"	15000	1-13/16" Std	25-1/8"	14"	7"	6-13/16"	1800 lbs
13-5/8"	2000	7-1/16"	2000	2-1/16" Std	18"	8-7/16"	7"	6-3/8"	645 lbs
13-5/8"	2000	7-1/16"	3000	2-1/16" Std	20-11/16"	9-3/4"	7"	6-3/8"	675 lbs
13-5/8"	3000	7-1/16"	3000	2-1/16" Std	20-7/16"	9-3/4"	7"	6-3/8"	685 lbs
13-5/8"	3000	7-1/16"	5000	2-1/16" Std	21-9/16"	10-7/8"	7"	6-3/8"	890 lbs
13-5/8"	5000	11"	5000	2-1/16" Std	23-5/8"	12-15/16"	11"	10"	1595 lbs



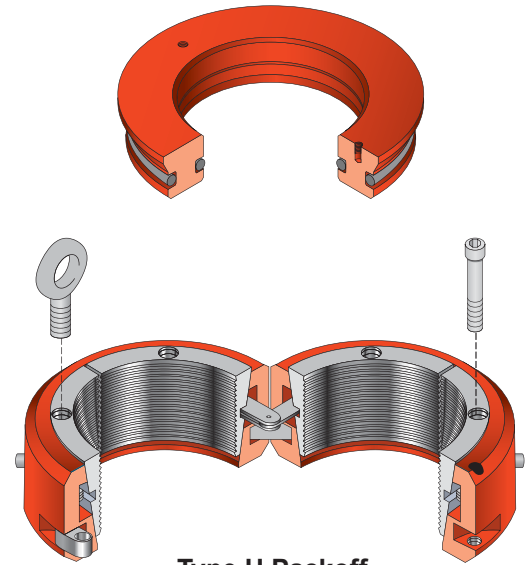
Worldwide Oilfield Machine

WC-21, WC-22 & WC-29 Casing Hangers

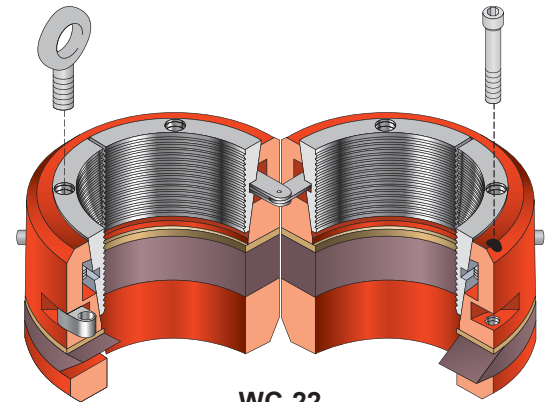
WOM's WC-21 non-automatic split casing hanger suspends the casing while incorporating the Type H packoff as the annulus seal.

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

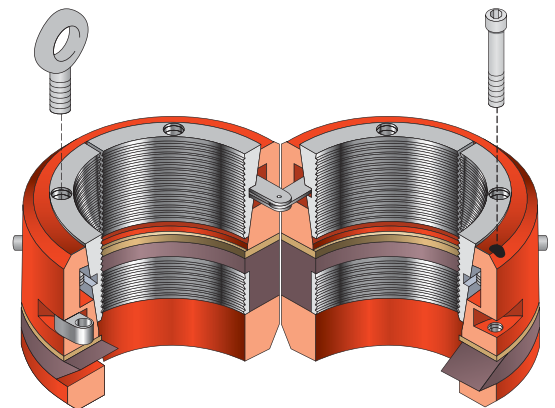
WOM's WC-29 automatic wrap around casing hangers incorporate a lower packoff, slip bowl and double slip segments. The WC-29 casing hanger is designed to handle heavier casing loads.



**Type H Packoff
WC-21
Casing Hanger**



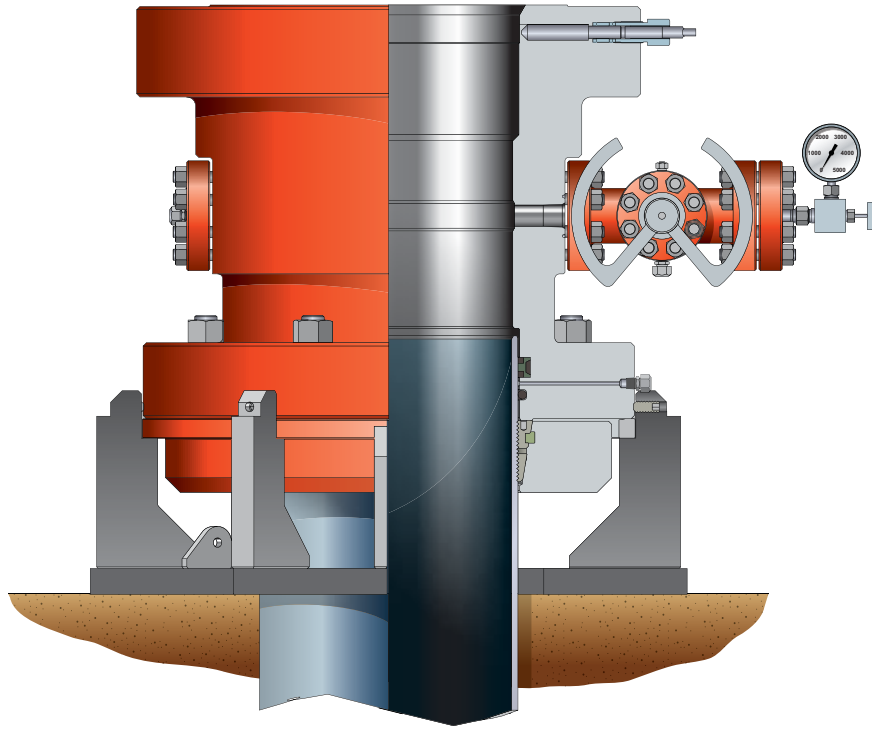
**WC-22
Casing Hanger**



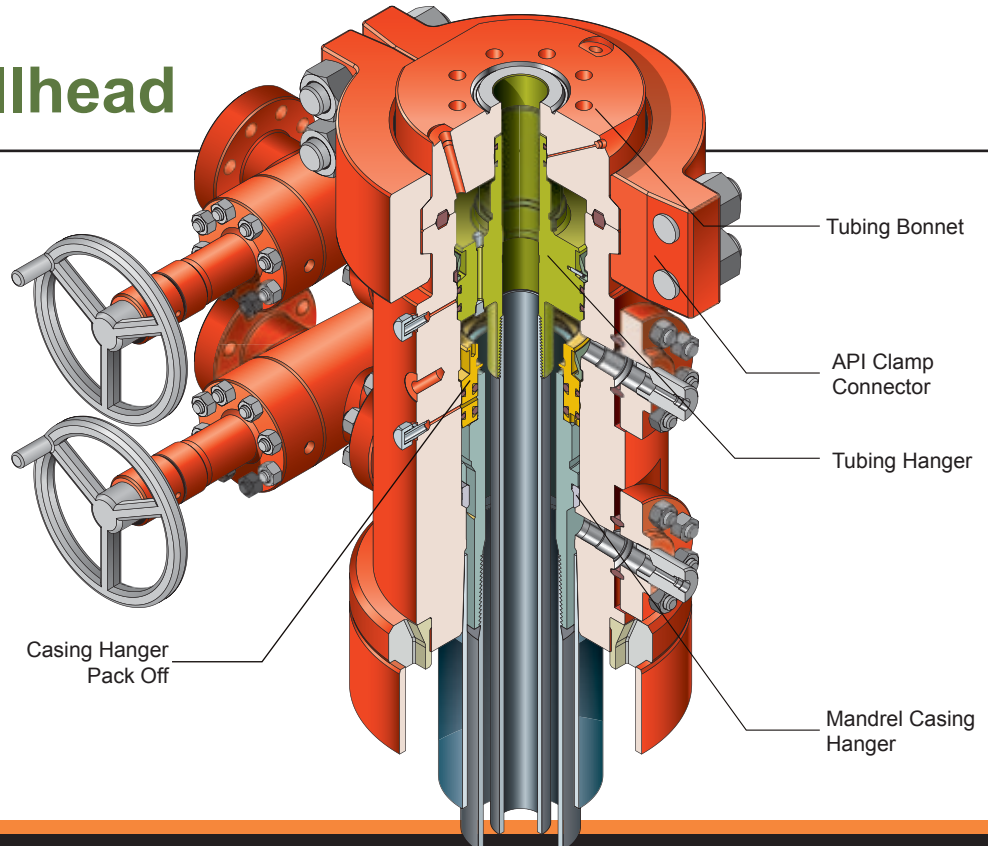
**WC-29
Casing Hanger**

Flange Size (ID)	Casing Size (OD)	C21 Casing Hanger Weight	C22 Casing Hanger Weight	C29 Casing Hanger Weight
9"	4-1/2"	65 lbs	45 lbs	68 lbs
9"	5"	56 lbs	40 lbs	58 lbs
9"	5-1/2"	50 lbs	34 lbs	52 lbs
11"	4-1/2"	95 lbs	100 lbs	100 lbs
11"	5"	90 lbs	95 lbs	95 lbs
11"	5-1/2"	79 lbs	89 lbs	90 lbs
11"	7"	68 lbs	75 lbs	76 lbs
11"	7-5/8"	59 lbs	60 lbs	60 lbs
13-5/8"	7"	123 lbs	152 lbs	156 lbs
13-5/8"	7-5/8"	115 lbs	140 lbs	144 lbs
13-5/8"	8-5/8"	99 lbs	125 lbs	129 lbs
13-5/8"	9-5/8"	82 lbs	108 lbs	112 lbs
13-5/8"	10-3/4"	66 lbs	96 lbs	101 lbs
16-3/4"	9-5/8"	229 lbs	299 lbs	404 lbs
16-3/4"	10-3/4"	201 lbs	260 lbs	351 lbs
21-1/4"	13-3/8"	283 lbs	310 lbs	403 lbs

Wellhead Slip Lock



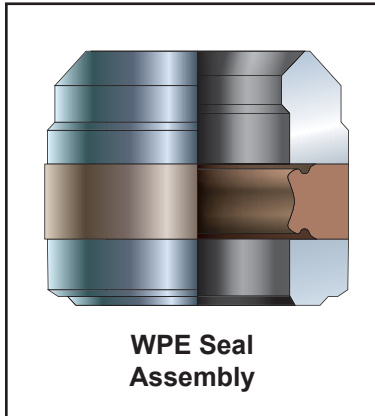
Compact Wellhead



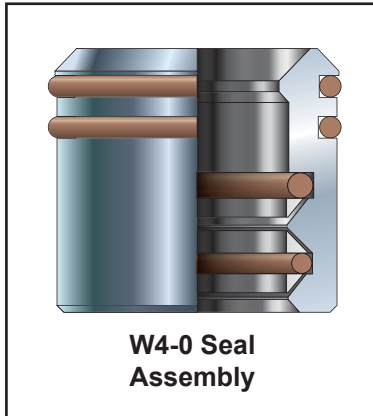


Worldwide Oilfield Machine
Secondary Seals

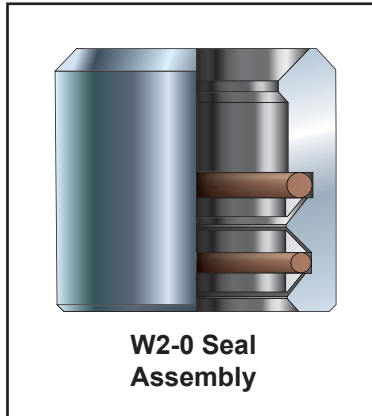
WOM offers a wide range of secondary seals for the WC-22 and WC-29 casing and tubing spools. These can be integral or complete seal bushings, pressure energized or plastic injected, that are inserted in the bottom of WOM's casing/tubing spools. Secondary Seals available are "OO", "P", "PP", "PE", Bushing, "4-0" Bushing, "X" Bushing and metal-to-metal.



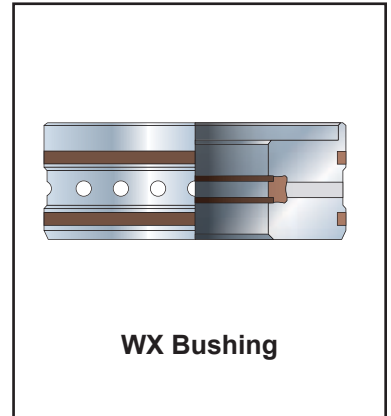
WPE Seal Assembly



W4-0 Seal Assembly



W2-0 Seal Assembly



WX Bushing

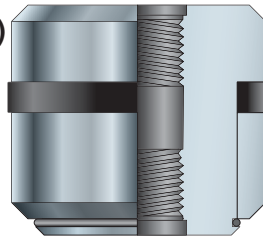
Secondary Seals and Tubing Hangers

WOM WTC Series Tubing Hangers

WOM offers a wide range of WTC series tubing hangers for single or multiple completions. All hangers are available with internal preparation for back pressure valve. DHCV (Down Hole Control Valve) and injection ports are optional. Metal-to-Metal seals are standard for high pressure (15,000 psi and above) completions.

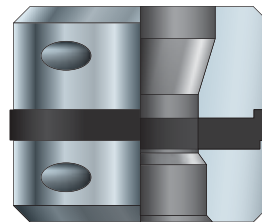
Single Completion Tubing Hangers:

- WTC-1W,
- WTC-1A, (BPV threads-optional)
- WTC-1A-EN,
- WTC-1A-EN-CL



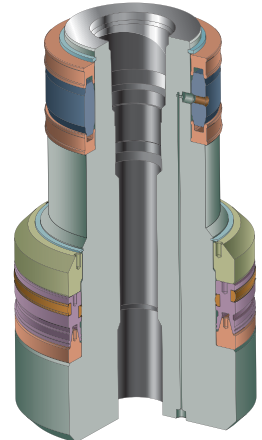
WTC-1A

WTC-1A: Threaded hanger with integral compression packoff



WTC-1W

WTC-1W: Split wrap-around tubing packoff

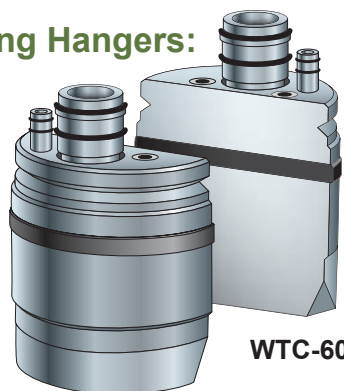


WTC-1A-EN-CL

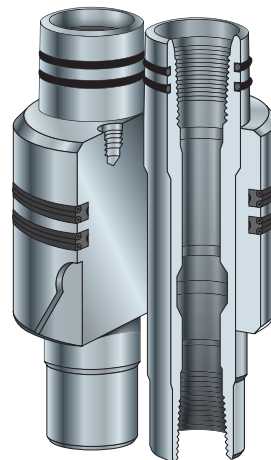
WTC-1A-EN: Same as WTC-1A except with extended neck

Dual Completion Tubing Hangers:

- WTC-60,
- WTC-2C



WTC-60



WTC-2C

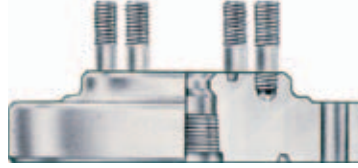
Tubing Head Adapters & Misc. Components

WOM's Tubing Head Adapters

WOM offers various types of tubing head adapters for single and dual completions.



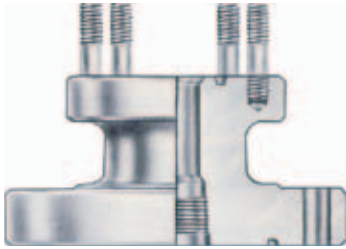
B-1



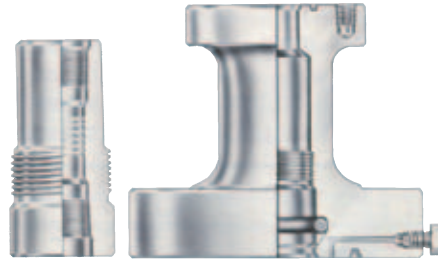
B-2-P



Dual Adapter

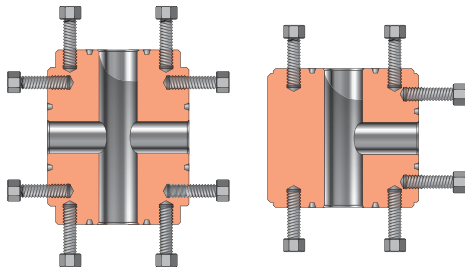


B-2-S



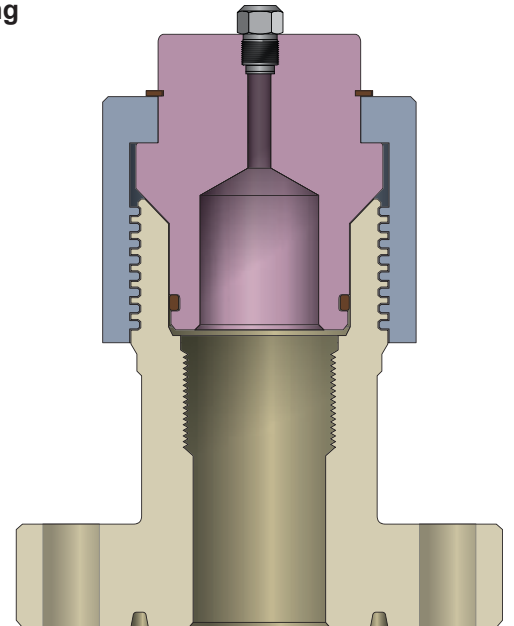
BO-2 w/Hanger Coupling

WOM's Crosses and Tees



WOM's Bottom Hole Test Adapters

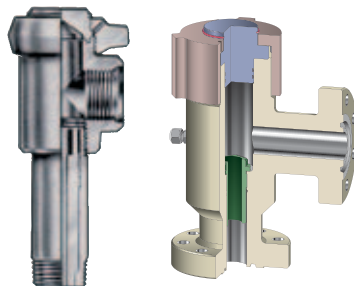
The B15A is available in various sizes and working pressures up to 5,000 psi. The B11AO is available in various sizes and working pressures up to 10,000 and 15,000 psi.



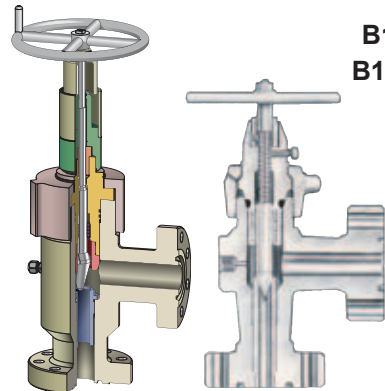
B15A
B11AO

WOM's Positive and Adjustable Chokes

Available in various sizes and working pressures from 2,000 psi up to 10,000 and 15,000 psi.



Positive chokes



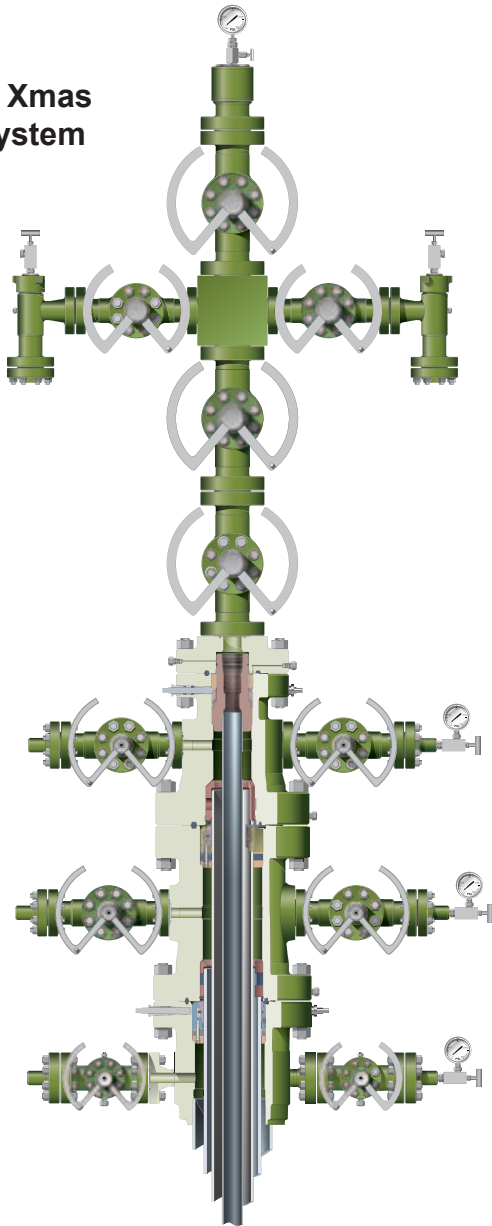
Adjustable
chokes



Worldwide Oilfield Machine

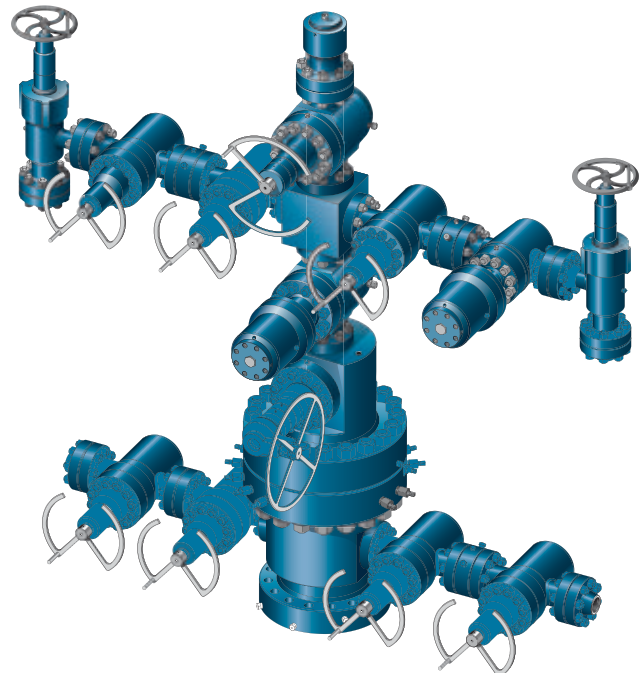
Typical WOM Wellhead Systems

Typical Xmas Tree System



Y-block Xmas Tree System

Magnum Wellhead & Xmas Tree System w/Metal-to-Metal Seals



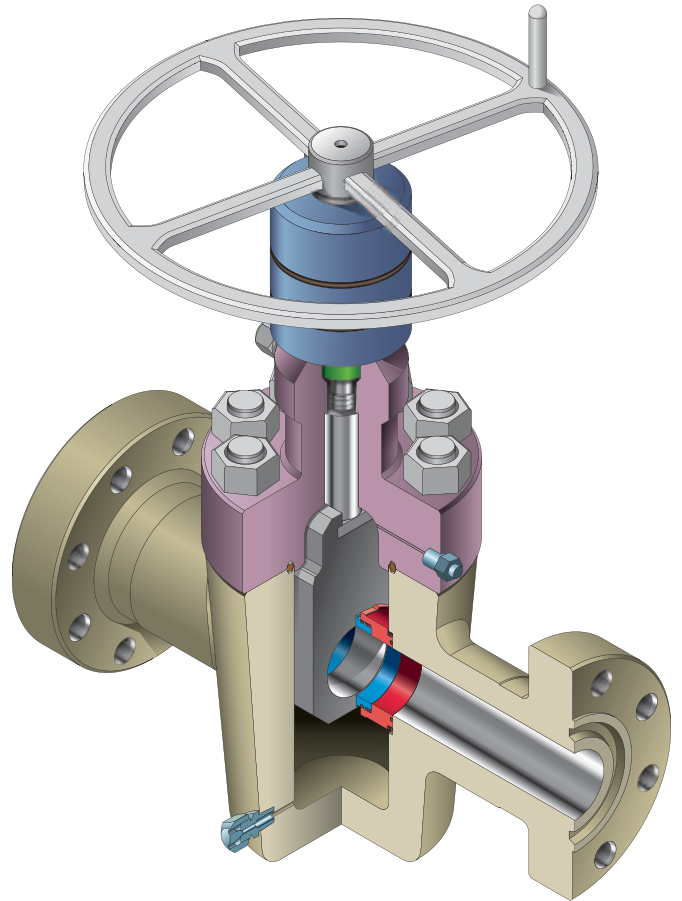
Patented Magnum Gate Valves

WOM's MAGNUM Gate Valves provide sealing reliability that is unmatched in the industry. The **patented** design has been proven in hundreds of well control applications during drilling, testing, and production... onshore, offshore, and subsea. The valves are available for use in any environment in all **API** specified sizes and pressure ratings.

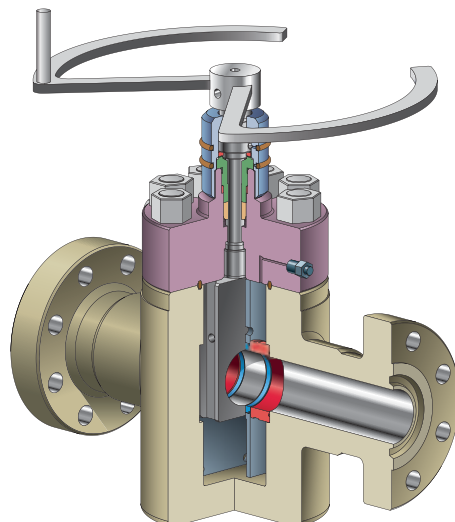
MAGNUM Gate Valves have a thick solid gate attached to the valve stem with a "T" nut that allows the gate to "float", reducing deflection and binding at extremely high line pressures. **MAGNUM** Gate Valves will not pressure lock and require **minimal** torque to open and close the valve.

The key to **MAGNUM's** superior bidirectional sealing is the "**Dual-Seal™**" system. This unique "**thru conduit**" design provides both upstream and downstream sealing, creating a pressure energized balance between the slab gate and seat assemblies. The "**Dual-Seal™**" seats expand against the floating gate when subjected to line pressure to form a positive **metal-to-metal** seal.

WOM's **Model 200** gate valve is a field-proven gate valve which provides the reliability and interchangeability needed in the competitive market today. The model 200 is a full-bore, through conduit gate valve available in standard flanged ends, butt weld ends, and in block body configurations.



"Patented" Magnum Gate Valve
Available in sizes 1-13/16" through 7-1/16"
in working pressures of 2,000 psi
through 20,000 psi



Model 200 Gate Valve
Available in sizes 1-13/16"
through 7-1/16" in
working pressures of
2,000 psi through 20,000 psi



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6D-0330
16C-0088
17D-0023



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CERT-CAT 00004