

## Wellhead Choke Manifold

### Product Code | WCM

#### Features

- Three flow paths through either a fixed or adjustable choke box or the full-bore bypass
- Low-torque metal-to-metal sealing on all gate valves
- Incorporates pressure ports and thermo-wells both upstream and downstream of the chokes
- Isolation valves fitted both upstream and downstream of the chokes
- Integral forklift pockets and four-point lifting sling provide safe handling options

#### Benefits

- Controls and reduces well pressure upstream of process equipment
- Allows rapid fixed choke change-outs while the well remains flowing
- Facilitates fluid sampling and both wellhead pressure and temperature measurement
- Maximum operational flexibility with three flow-paths

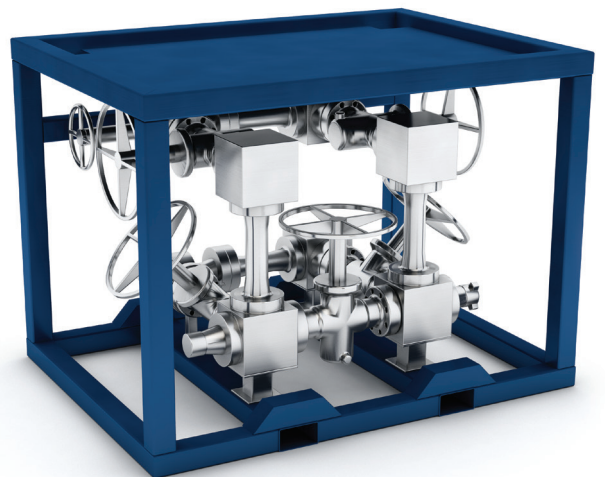
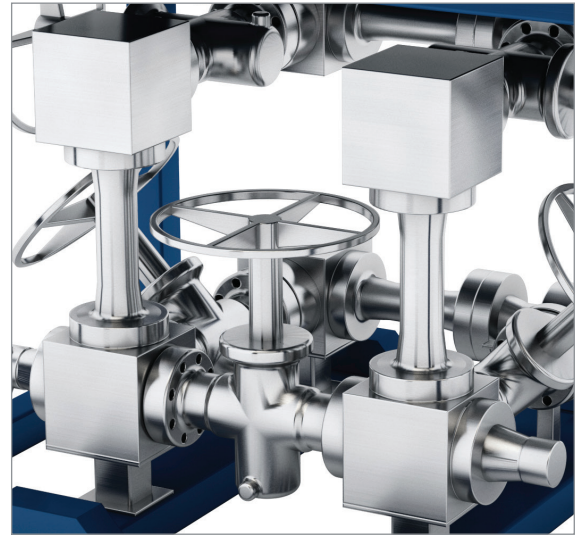
**The Choke Manifold is the primary well pressure and flow control package used during both offshore and onshore well testing, frac flow-back, well clean-up and early production operations.**

Hunting can engineer, design and manufacture any choke manifold to the customer's specific needs including multiple valve and choke configurations, incorporating single or double pressure barrier philosophy and according to various industry-standard pressure and temperature ratings, pipe diameters and service requirements.

The Hunting standard choke manifold has three flow paths through:

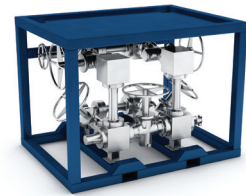
- A fixed choke that provides accurate flow control for flow rate measurement under stable conditions
- An adjustable choke used during well clean-up or drawdown operations until a stable flow condition has been achieved
- A full-bore bypass that can be used when choking downstream at the heater or in open-flow conditions

→ See overleaf for technical information



TECHNICAL INFORMATION

# Choke Manifold



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Model	WCM 5K	WCM 10K	WCM 15K	WCM 20K
Service	H2S	H2S	H2S	H2S
Fluid Class	DD	DD	DD	DD
Working Pressure psi [bar]	5,000 [345]	10,000 [690]	15,000 [1035]	20,000 [1379]
Working Temperature °C [°F]	-29 [0] up to 180 [350]	-29 [0] up to 180 [350]	-29 [0] up to 180 [350]	-29 [0] up to 180 [350]
<b>Flow Capacity<sup>(1)</sup></b>				
Gas, Mmscf [m <sup>3</sup> / day]	25 [750.000]	50 [1.500.000]	75 [2.250.000]	75 [2.250.000]
Oil, bbls /day	5000	5000	5000	5000
<b>Standard Connections<sup>(2)</sup></b>				
Gas / Oil Inlet	API Flange 3-1/8" 5K	API Flange 3-1/16" 10K	API Flange 3-1/16" 15K	API Flange 3-1/16" 20K
Gas / Oil Outlet	API Flange 3-1/8" 5K	API Flange 3-1/16" 10K	API Flange 3-1/16" 15K	API Flange 3-1/16" 20K
<b>Operational Footprint LxB cm</b>	Dimensions and weights are depending on model type: <ul style="list-style-type: none"> <li>• Single or Double Block Gate Valves</li> <li>• Size of connections, 3-1/16", 4-1/16" etc.</li> <li>• Offshore or onshore transport Skid</li> <li>• Hunting also has compact models with low footprint</li> </ul> Ask Hunting for actual weights and dimensions.			
<b>Transport Size LxBxH cm</b>				
<b>Weight, kg [lbm]</b>				
<b>Certifications</b>				
Design	Type Approval	Type Approval	Type Approval	DVR
Manufacturing	Declaration of Conformity	Declaration of Conformity	Declaration of Conformity	Declaration of Conformity
Documentation	Quality File	Quality File	Quality File	Quality File
<b>Applicable Codes</b>	PED 2014/68/EU	PED 2014/68/EU	PED 2014/68/EU	PED 2014/68/EU
	ASME B31.3	ASME B31.3	ASME B31.3	ASME B31.3
	API 6A	API 6A	API 6A	API 6A
	NACE MR 01-75 (ISO 15156-1,-2)	NACE MR 01-75 (ISO 15156-1,-2)	NACE MR 01-75 (ISO 15156-1,-2)	NACE MR 01-75 (ISO 15156-1,-2)
	Optional with DNV 2.7-1	Optional with DNV 2.7-1	Optional with DNV 2.7-1	Optional with DNV 2.7-1

NOTES

- (1) Flow capacity is dependant on many factors. Please contact Hunting for advice.  
 (2) Connections cross-overs can be added as per customer requirements.