



Choke Manifold

The choke manifold is used to reduce well pressure and control the flow rate before the flow enters the processing equipment.

Expro's standard choke manifolds are component designs consisting of four, five or eight manual valves. Positioned on one side of the flow path an adjustable choke allows variable flow control for flexibility during clean-up rates. On the other side a fixed orifice allows a more accurate flow control for predetermined flow rates.

The choke allows the operator to control the well flow by enabling progressive manual, powered, or fixed control of the well stream by opening, closing, or selecting a fixed orifice. Well parameters such as pressure and temperature can be monitored through ports positioned upstream and downstream of the manifold.

A number of choke manifold configurations and sizes are available for different pressures and temperatures to meet the client's demands and well conditions. Both single and dual isolation valve arrangements can be supplied.

Expro recommend a double barrier policy between process fluids and the atmosphere when changing chokes in harsh environments such as sand clean-up and high pressure applications.

There are also variations to the adjustable choke make and type. The larger bore units and high pressure manifolds have a production choke installed rather than the traditional needle and seat type. We can also incorporate our tried and tested Powerchokes adjustable designed for severe service environments.



Applications:

Onshore and offshore oil and gas well testing, and clean up operations
Flow back after stimulation operations and workovers
HPHT

Features & Benefits:

Incorporates the latest adjustable choke technology
Meets applicable industry standards
Two flow paths, one adjustable and one fixed
Allows fast choke changes without interrupting the flow
Pressure and temperature rated to meet hostile environments
Small footprint.



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Technical Specifications:								
Nominal Diameter inches (mm)	Max. Working press.psi (bar)	Temperature rating °F (°C)	Inlet - outlet connection	Weight lbs (kg)	Dimensions h x l x w Ft (m)	Chokes	Special features	Design Code and Service
6" (152.4)	3,000 (207)	-20/250 (-29/121)	6" fig 1002 union	12000 (5443)	4 x 7 x 8.75 (1.2 x 2.2 x 2.7)	fixed & adjust	4 valve Composite 7 ¹ / ₁₆ " chokes	API 6A, ANSI B31.3, NACE MR-01-75
3" (76.2)	5,000 (207-345)	-20/350 (-29/176)	3" fig 1002 union	5200 (2359)	3 x 5 x 7.6 (0.9 x 1.5 x 2.3)	fixed & adjust	High Temperature	API 6A, ANSI B31.3, NACE MR-01-75
3" (76.2)	5,000 (345)	-20/250 (-29/121)	3" fig 602 union	2250 (1020)	3 x 5.2 x 9 (0.9 x 1.6 x 2.7)	fixed & adjust	4/5 valve design	API 6A, ANSI B31.3, NACE MR-01-75
3" (76.2)	10,000 (690)	-20/250 (-29/121)	3" fig 1502 union	5550 (2517)	3.4 x 5.7 x 10 (1 x 1.7 x 3.1)	fixed & adjust	4/5 valve Composite	API 6A, ANSI B31.3, NACE MR-01-75
4" (101.6)	10,000 (690)	-20/250 (-29/121)	4" fig 1502 union	5550 (2517)	3.3 x 5.6 x 10 (1 x 1.7 x 3.1)	fixed & adjust	4 valve Composite	API 6A, ANSI B31.3, NACE MR-01-75
3" (76.2)	10,000 (690)	-20/250 (-29/121)	3" fig 1502 union	8158 (3700)	3.5 x 4.7 x 7 (1 x 1.4 x 2.1)	fixed & adjust	5 valve Solid Block	API 6A, ANSI B31.3, NACE MR-01-75
3" (76.2)	10,000 (690)	-20/250 (-29/121)	3" fig 1502 union	7716 (3500)	3.1 x 6 x 11.5 (0.9 x 1.8 x 3.5)	fixed & adjust	8 valve Dual Isolation	API 6A, ANSI B31.3, NACE MR-01-75
3" (76.2)	15,000 (1035)	-20/250 (-29/121)	Cameron Hubs	11000 (5000)	5 x 4.3 x 16.3 (1.5 x 1.3 x 4.9)	fixed & adjust	5 valve Sand Resistant Block 2 ⁹ / ₁₆ " gate valves	API 6A, ANSI B31.3, NACE MR-01-75
3" (76.2)	15,000 (1035)	-20/250 (-29/121)	3" C-25 Graylok	11025 (5000)	4.7 x 5.6 x 8 (1.4 x 1.7 x 2.5)	fixed & adjust	5 valve Solid Block 2 ⁹ / ₁₆ " gate valves	API 6A, ANSI B31.3, NACE MR-01-75
3" (76.2)	15,000 (1035)	-50/400 (-45/204)	H4-27R Techlok	5500 (2500)	4.5 x 8.3 x 10.8 (1.4 x 2.5 x 3.3)	fixed & adjust	8 valve Composite 3 ¹ / ₁₆ " gate valves	API 6A, ANSI B31.3, NACE MR-01-75

Note: The above referred design codes are our minimum standard and for guideline purposes only. For Choke specific information and additional codes applicable to comply with region specific standards please consult your local Expro representative..