

NOV thoroughly researches all products and ensures that they adhere to the highest quality and safety standards. NOV has been audited and approved by the American Petroleum Institute (API) to monogram equipment to API 6A.



NOV® ANSON A REPUTATION FOR QUALITY AND RELIABILITY

NOV ANSON quality assurance and management systems achievements, past and present:

BS.5750 Part 1 British Standards Specification for Design/Development, Production, Installation, and Servicing. Original qualification date 1986.

NS.5801 Norske Standard Specification for Design/Development, Production, Installation, and Servicing. Original qualification date 1986.

ISO 9001 1987 International Standards Organization. Model for Quality Assurance in Design/Development, Production, Installation, and Servicing. Original qualification date 1988.

NS ISO.9001 1988 Norske Standard as ISO.9001-1987. Original qualification date 1989.

BS.EN.ISO.9001:2008 New Specification covering ISO.9001 became effective in December 2003.

NOV ANSON reassessed and qualified July 2003.

API.Q1 American Petroleum Institute, Specification for Quality Programs.

Original qualification date 1992.

RAAD VOOR DE CERTIFICATIE (RVC) Since July 1986 all BS, ISO, NS and EN Certificates have been endorsed with the Netherlands Certification Councils RVC Accreditation Mark.

PED PED97/23/EC Module H — NOV ANSON qualified to CE mark Pressure equipment in accordance with EU directive — Original approval May 2002.

In addition, NOV ANSON is an active member of:

API American Petroleum Institute

ASTM American Society for Testing of Materials (Organizational Member)

NACE National Association of Corrosion Engineers (Corporate Bronze Member)

BSI British Standards Institution

AWHEM Association of Wellhead Equipment Manufacturers (Member North Sea Chapter)



Health, Safety and Environment

NOV recognizes the importance of health, safety, and environment in its activities as well as the activities of its customers and has established detailed manuals for each discipline. The safety manual encompasses risk assessments, safe working procedures, and extensive training programs.

The environmental manual includes the necessary procedures, including measurable objectives and targets, to comply with current legislation and codes of practice.

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Supply Chain Solutions

Tubular and Corrosion Control Solutions

Well Service and Completion Solutions

ANSON® MANIFOLDS



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3 1/16" 10,000 psi x 3 1/8" 5000 psi Choke and Kill Manifold

CHOKE MANIFOLDS

NOV ANSON choke manifolds are designed and manufactured to customer requirements by a highly qualified multidiscipline team. Choke and kill manifolds are manufactured from NOV ANSON standard off the shelf products which enables NOV to exercise control over quality and scheduling to ensure prompt delivery and competitive prices. Complete control systems can be supplied with pressure requirements of up to 20,000 psi. NOV ANSON choke manifolds are designed and supplied fully certified in accordance with the recognized oilfield equipment standards.

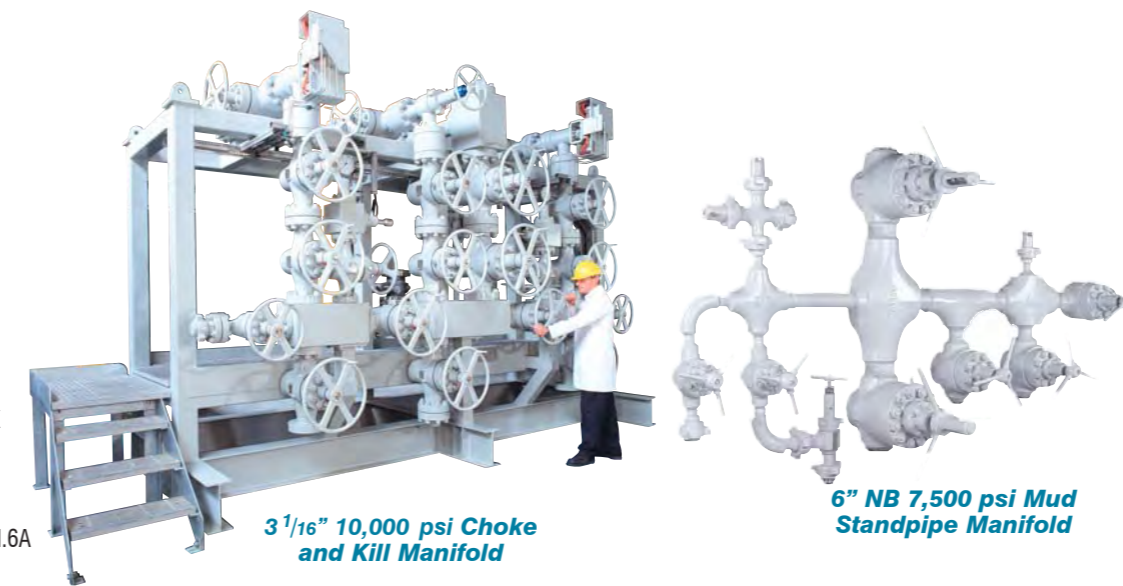
STANDARD SPECIFICATIONS

- ANSON gate valves — manual and hydraulic
- ANSON positive and adjustable chokes*
- Hydraulic chokes
- ANSON API studded crosses and tees
- ANSON adaptors, flanges and spools
- ANSON blinds, crossovers and fittings
- ANSON choke control system*
- Individually pressure tested valves
- Pressure and function tested prior to dispatch

STANDARD OPTIONS

- Skid mounted if required
- Supplied with mud gas separator
- API.6A, PSL 1, 2, 3 or 4
- Temperature ratings API.6A, K through X
- Standard or H₂S service
- API.6A Material Classes: all available
- 5,000 psi, 10,000 psi, or 15,000 psi API.6A
- With or without walkway

* or approved alternative



3 1/16" 10,000 psi Choke and Kill Manifold

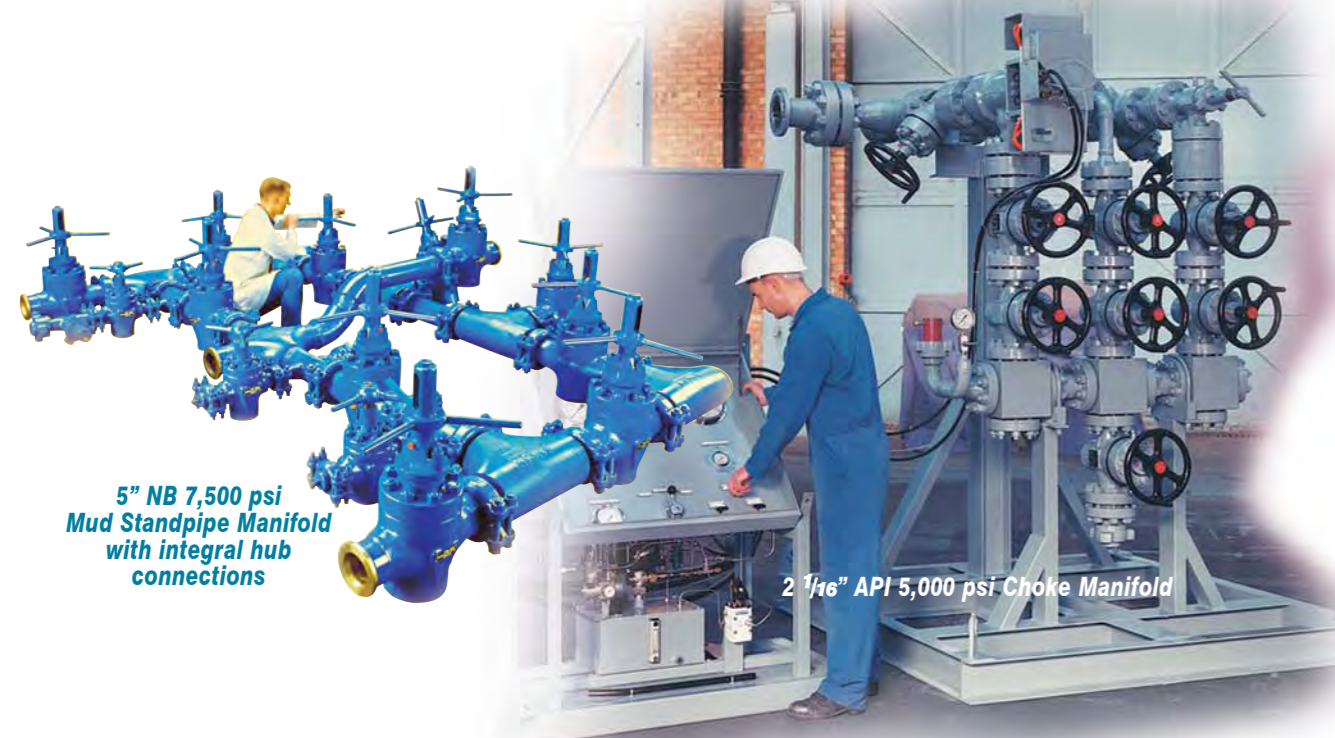
6" NB 7,500 psi Mud Standpipe Manifold

NOV ANSON MANIFOLD SYSTEMS

The National Oilwell Varco® line of ANSON manifold systems are designed and manufactured to customer specifications using only the highest quality materials and standards. NOV ANSON flowline equipment includes API.6A gate valves, mud valves, check valves, and plug valves. These, coupled with NOV ANSON manifold fittings, flanges, hubs, hammer unions, API blocks and NOV's welding capabilities, allow NOV to control the design, quality and scheduling of the most complex manifold projects.

NOV ANSON manifolds are designed and supplied fully certified in accordance with the recognized oilfield equipment standards. NOV designs and builds the following types of ANSON Manifolds:

- Diverter Manifolds
- Standpipe Manifolds
- Underbalanced Drilling Manifolds
- Truck mounted manifolds
- Mud Tank Manifolds
- Portable Choke and Kill Manifolds
- Containerized Manifolds
- Cement Manifolds
- Fixed Choke and Kill Manifolds
- Gas Gathering Manifolds
- Portable Well Test Choke Manifolds
- Test Manifolds



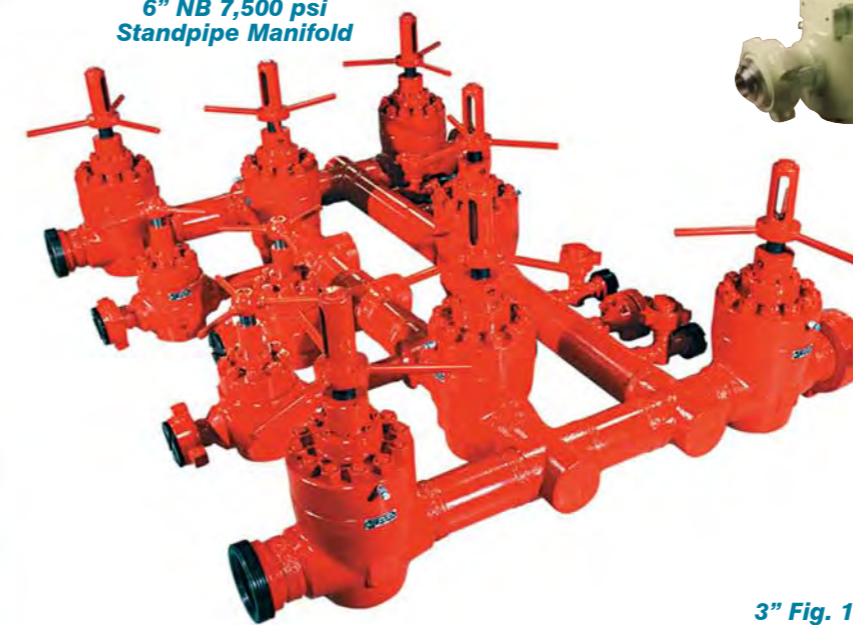
5" NB 7,500 psi Mud Standpipe Manifold with integral hub connections

2 1/16" API 5,000 psi Choke Manifold

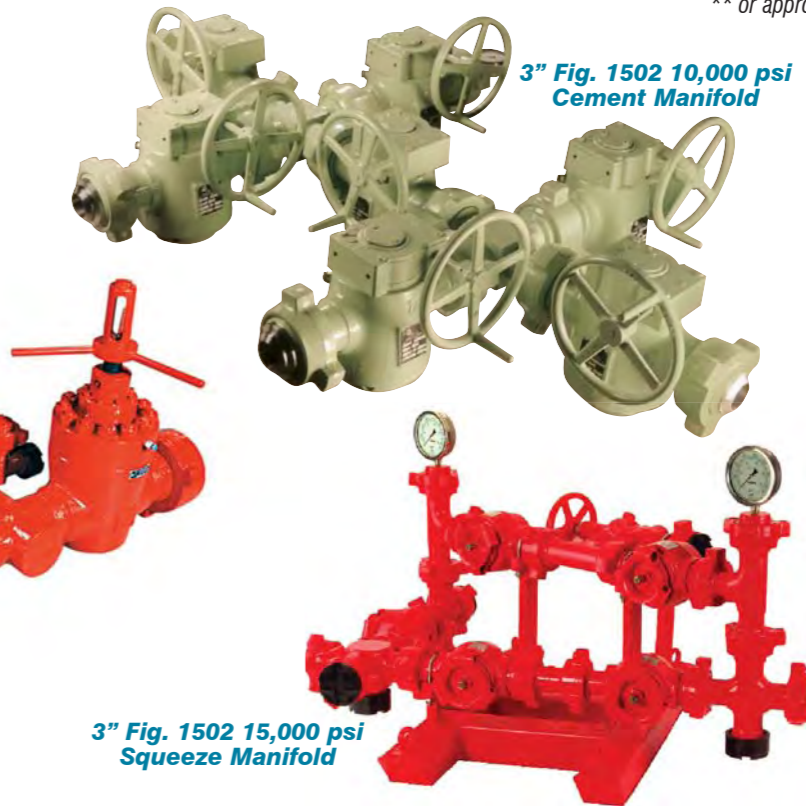
3 1/16" API 10,000 psi portable Drilling Choke Manifold System



6" NB 7,500 psi Standpipe Manifold



3" Fig. 1502 10,000 psi Cement Manifold



3" Fig. 1502 15,000 psi Squeeze Manifold



3" NB 10,000 psi Cement Manifold

CEMENT MANIFOLDS

NOV ANSON high pressure cement manifolds are designed and manufactured to customer requirements. The NOV ANSON product line offers the widest range of hammer union ended equipment available from any one manufacturer. Purpose forged tees, crosses, "Y's", laterals, plug valves (two types), crossovers; the list is endless. This allows NOV to supply very competitively priced cement manifolds in a wide variety of sizes and configurations. Manifolds with pressure ratings up to 20,000 psi are available.

NOV ANSON cement manifolds are designed and supplied fully certified in accordance with the recognized oilfield equipment standards.



3 1/16" API 10,000 dual bore (Wellhead) Block Christmas Tree

STANDARD SPECIFICATIONS

- ANSON plug valves
- ANSON forged crosses
- ANSON hammer unions
- ANSON forged tees
- ANSON forged long radius elbows
- Individually pressure tested fittings and valves
- Pressure tested assembly
- Full material traceability
- Design codes include API.6A, ASME VIII (Div.1 and 2) ASME B.31.3

STANDARD OPTIONS

- Premier, Compact, or DB Series plug valves
- Standard or H₂S service
- API.6A, PSL 1, 2, 3 or 4
- API.6A Material Classes: all available
- API.6A temperature ratings: P to U with K and L to special order
- Third party design approval and certification
- Skid mounted if required
- Supplied complete with portable treating iron
- Flange, hub or threaded end connections

STANDPIPE MANIFOLDS

NOV ANSON standpipe manifolds are designed and manufactured to customer requirements utilizing the NOV ANSON range of mud valves and forged manifold fittings. The incorporation of standard NOV ANSON products enables NOV to control quality and scheduling to ensure prompt delivery and competitive prices. Welded, flanged, hubbed or hammer union construction is available. Pressures up to 7,500 psi using standard NOV ANSON mud valves can be accommodated.

NOV ANSON standpipe manifolds are designed and supplied fully certified in accordance with the recognized oilfield equipment standards.

STANDARD SPECIFICATIONS

- ANSON mud valves
- ANSON forged manifold fittings
- ANSON chokes**
- ANSON original quality unions
- ANSON hammer union forged tees and elbows
- Full material traceability
- Individually pressure tested valves and fittings
- Hydrostatically pressure tested assembly

STANDARD OPTIONS

- Hammer union, flange, hub, or welded connection
- API.6A, PSL 1, 2, and 3 (including mud valves)
- API.6A material classes: all available
- API.6A temperature ratings L through X
- Third party design, approval and certification
- Skid mounted if required
- Supplied complete with portable treating iron

** or approved alternative