

# Manifolds

NOV manifold systems are designed and manufactured to customer specifications using only the highest quality materials and standards. Valve options include Anson/ T3/Shaffer API 6A gate valves, Anson mud valves, Anson/T3 check valves, and Anson plug valves. These, coupled with Anson manifold fittings, flanges, hubs, hammer unions, API blocks, and NOV welding capabilities allow NOV to control the design quality and scheduling of the most complex manifold projects.

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

NOV designs and builds the following types of manifolds:

- Choke and Kill Manifolds
- Diverter Manifolds
- Truck Mounted Manifolds
- Ground Pipe Manifolds
- Containerized Manifolds
- Standpipe Manifolds
- Gas Gathering Manifolds
- Mud Tank Manifolds
- Underbalanced Drilling Manifolds
- Managed Pressure Drilling Manifolds
- Cement Manifolds



**Choke and Kill Manifold**

## Choke and Kill Manifolds

Anson/T3/Shaffer choke and kill manifolds are designed and manufactured to customer requirements by a highly qualified multidiscipline team. Choke and kill manifolds are manufactured from Anson/ T3/Shaffer standard off the shelf products which enable 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. Anson/T3/ Shaffer choke manifolds are designed and supplied fully certified in accordance with the recognized oilfield equipment standards.

- Anson/T3/Shaffer gate valves—manual and hydraulic
- Anson/T3/Shaffer positive and adjustable chokes
- T3/Shaffer Hydraulic chokes
- API studded crosses, tees, adaptors, flanges and spools
- NOV blinds, crossovers and fittings
- NOV choke control systems
- Individually pressure tested valves
- Pressure and function tested prior to dispatch

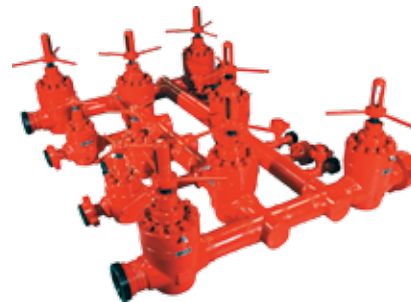


**3" Fig. 1502 10,000 psi Cement Manifold**

## Cement Manifolds

Anson high pressure cement manifolds are designed and manufactured to customer requirements. The 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, 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. Anson cement manifolds are designed and supplied fully certified in accordance with the recognized oilfield equipment standards.

- 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.



**6" NB 7,500 psi Standpipe Manifold**

## Standpipe Manifolds

NOV standpipe manifolds are designed and manufactured to customer requirements utilizing the Anson/T3 range of mud valves and forged manifold fittings. The incorporation of standard Anson/ T3 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 Anson/T3 mud valves can be accommodated. NOV standpipe manifolds are designed and supplied fully certified in accordance with the recognized oilfield equipment standards.

- Anson/T3 mud valves
- Anson forged manifold fittings
- Anson/T3/Shaffer 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