Anson Plug Valves

Plug valves are a low torque, quarter turn valve, used to isolate sections of flowline. They are the valve of choice when space is limited and a quick shut off is required.

Our Anson™ plug valves have a robust and low-maintenance compact design. They have been used globally in multiple applications for the last 30 years.

Available from 1- to 4-in. full bore for pressures up to 20,000 psi, all Anson plug valves are pressure-balanced type and have replaceable inserts between the body and plug.

Operating and Maintenance Manuals

Premier plug valves: **M03-M04**

Compact plug valve: **M08**

DB compact plug valve (Figure 602): **M84**

DB compact plug valve (Figure 1502): **M117**

Lubrication schedule: **M63**

NOV Completion & Production Solutions

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Premier Plug Valve

The premier plug valve is available with an Anson hammer union, API flange, or hub connections. Sizes range from 1 to 4 in. with pressures up to 20,000 psi standard service and 15,000 psi for sour gas operations. The premier plug valve is a tapered (wipe clean) plug valve design, preventing contaminants from entering the cavity.

Flanged valves are available with API face-to-face dimensions and either regular or full bore. Manufactured from forged steel, they can be supplied to API material class and temperature range.

Typical applications for the premier plug valve include fracturing, acidizing, flowback, cementing, and well test operations.

Compact Plug Valve

The compact plug valve has a parallel (floating) plug valve design and is ideal for service companies who require a compact and efficient shut off valve for production testing and flowback applications.

It is available with hammer union ends and comes in a 1 or 2 in. size for service up to 15,000 psi for standard service and 10,000 psi for sour gas operations.

DB Series Valve

The sub-compact, lightweight, and patented DB series plug valve range is ideal for single-person, manual handling and truck-mounted applications due to its lightweight design of less than 50 lb (25 kg). The DB series plug valve is available with either figure 602 or 1502 connections for both standard or sour gas applications.

Anson plug valves are supplied with manual actuation—either a handle or handwheel with gearbox. Anson plug valves can also be fitted with hydraulic or pneumatic actuators when requested.

Anson Plug Valve Tips:

- Choose the correct specification of valve to suit your operations.
- The choice of elastomeric seal material is important in ensuring that the sealing integrity of the valve is maintained. Seal material options include NBR, HNBR, FKM, superseal, and arctic seal grades. We have a dedicated technical sales team to ensure you select the valve that best fits your needs.
- Inject the valve with grease prior to operations and frequently during operation of the valve depending on the severity of service (refer to Lubrication Schedule). The grease acts as a corrosion resistant barrier as well as a sealant and lubricant. Regular greasing is key to the successful operation of the valve.
- Use NOV-recommended grease.
- When using the valve in severe service (e.g. with hydrochloric acid) ensure that inhibitors are included and that the valve is flushed with clean water after use.
- Anson plug valves are isolation valves and should be oper ated either in the fully open or fully closed position. They should not be used to choke the flow, as this will wash the valve and cause premature failure.
- When the valve is not in use it should always be left in the open position.
- As with all equipment, preservation is key to maintain the life of the product. When the valve is not in service, protect exposed sealing surfaces and threads with suitable rust inhibitors, and protect end connections with covering plastic caps.
- Frequent and regular inspection is vital in order to establish the useful life of the plug and inserts under the operating conditions present.
- Take the opportunity during service of the valve to replace any soft seals and only use OEM replacement parts; using alternatives may jeopardise the integrity of the valve.
- Premier plug valve insert sets are machined as a pair and should be retained and used as the same pair. Mixing these may result in difficulty assembling the valve.
- During storage and service keep metallic spare parts free from damage. Scratches, dents, and pits on sealing surfaces can affect the performance of the valve.
- If in doubt, ask. We have local and trained personnel. Please get in touch with us if you have any questions or feedback.