

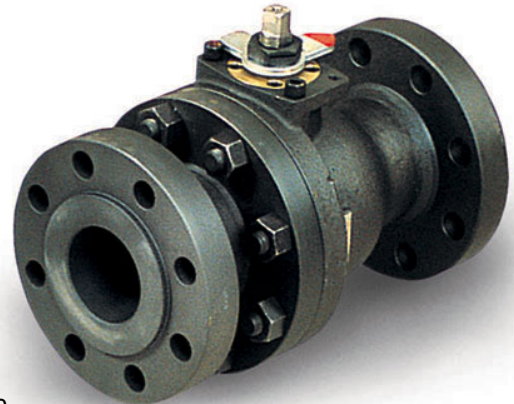
Series 52/53/83/84/85 & 86

Double Block & Bleed Ball Valves

Double block and bleed ball valves are specifically designed to take full advantage of the positive sealing of pressurized media on both sides of the valve from leaking through the valve and becoming mixed.

APPLICATIONS

A single double block and bleed valve can do the job of two conventional single-seated valves. Two pairs of conventional valves must be used for block and bleed service in a fuel oil and gasoline storage system. A single double block and bleed valve replaces each pair of these valves. The pipe tees are eliminated since the valves have a drain hole in their base for verification of positive sealing if desired. Standard Series 83, 84, 85 & 86 valves are fire-tested to API 607 for flow through the valve in either direction. To meet requirements of this specification, ball valves of floating-ball design (Class 150 and 300 valves) rely on upstream pressure forcing the ball downstream for effective shutoff. In double block and bleed applications with pressurized media on both sides of the valve, shutoff in the event of a fire can be expected only if there is significant differential pressure across the valve. Further, the body cavity must be protected against fluid thermal expansion (as required by ANSI B16.34), which can be done by commercially available fire-tested relief devices.



AVAILABLE VALVES

VALBOL DBB ball valves available as double block and bleed valves include: Series 82, 83, 84, 85 & 86 Full-Bore and Series 51, 52 & 53 Standard-Bore

SEAT MATERIALS AND RATINGS

Double block and bleed valve seats have an integral elastomer O-ring that maintains upstream sealing over an extremely wide range of conditions. Standard seat material is filled PTFE (R). Standard O-ring materials are Buna-N, providing ideal combination of chemical resistance and temperature up to +200°F and Viton, with temperatures to +300°F.

BLEED HOLE

Valve bodies are available drilled and tapped to allow for flow out of the body cavity. Standard size for the bleed port is 1/2". The port is supplied with a plug to prevent flow when the valve is being opened or is in the full open position. If a bleed valve is required, the Fire-Safe Series F44 ball valve is recommended. In cases where fluctuations in temperature occur, the bleed line should be equipped with a relief valve to guard against excessive pressure build-up of fluid trapped in the body cavity of the valve.

HOW TO ORDER

Add (DBB) to the standard valve.

Example: 4" ANSI Class 600 full-port valve in double-block-and-bleed construction (DBB) with raised-face flanges, carbon-steel body, 316 stainless-steel trim with filled-PTFE seats and seals, and Buna-N O-rings:

8440046RTRM (DBB)