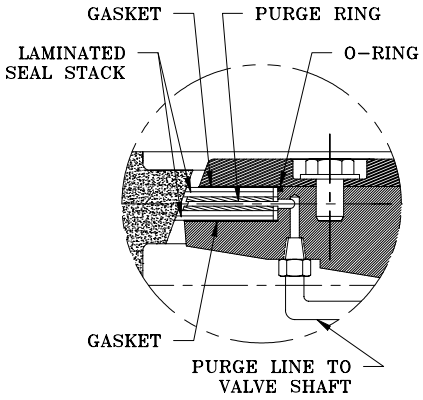
TECHNICAL BULLETIN 110

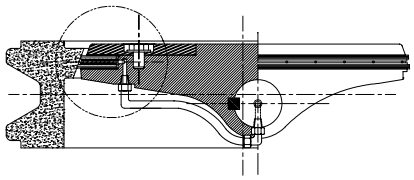
BLOCK and BLEED SERVICE

The TRICENTRIC®high performance butterfly valve is available in a double block and bleed style where:

< 100% isolation is required.
< a man safe environment is required downstream.
< a pressure purged seal is desired.
< or seal leakage monitoring is required.

Design: The block and bleed design utilizes two separate laminated seal stacks arranged in tandem with an annular ring in between for bleed off, pressurization or sampling. This annular ring is connected by radial holes, grooves, tubing and fittings to a gun-drilled shaft with exterior connections. This effectively provides a bleed or purge passage from between the seal stacks to the exterior connection. All components are composed of stainless steel corrosion resistant materials. The block and bleed passage design conditions are equal to the body pressure temperature rating.





Exterior Connection: The TRICENTRIC® block and bleed option is manufactured as a standard with one female NPT thread on the drive end of the shaft to allow fluid connections with sizes as noted. Shaft end thread is shipped with a plug to ensure the flow passage is not contaminated with water or dirt.

10" to 12"	1/4 - 18 NPT
14 to 54"	3/8 - 18 NPT
60" and larger	1/2 - 14 NPT

Testing: The block and bleed option is hydrostatically tested to 1.5 times the body design pressure for three (3) minutes with no visible leakage allowed.

Installation: All TRICENTRIC® designs should be installed with the shaft horizontal to reduce particulate build-up in the lower bearing areas. The shaft exterior connection shall have a swivel type connector installed. When the installation is automated, consideration must be made for the connection entry through the actuator to the top of the shaft. Standard gear operators are supplied with an indicator plate clearance hole to allow passage connection.

Application Considerations:

< Block and bleed valves perform optimally in clean service conditions.

< Purge applications must use inert gas, air, steam or other media compatible fluid at a pressure higher than line pressure. A continuous purge is required in dirty service applications to ensure the purge passages remain effective.

< Bleed applications require that fluids be collected or distributed in a safe and effective manner.

Consult with TRICENTRIC® Engineering department to ensure a valve design suitable to application specific conditions.

Contents may change at any time without notice.

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APRIL 2002

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