



17. Double Block and Bleed
and Instrument Valves

Section 17. Double Block and Bleed and Instrument Valves

DESIGN FEATURES

- Instrument Valves (Needle)
- Ball-Needle-Ball, Ball-Ball-Ball configuration
- Metal and soft seated design
- Temperature range - 46 °C to +450 °C
- NACE and Firesafe as standard

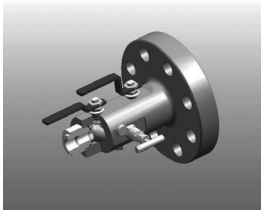
RATING	150lb	300lb	400lb	600lb	900lb	1,500lb	2,500lb
MAX. WORKING PRESSURE	285 PSI	740 PSI	990 PSI	1480 PSI	2220 PSI	3705 PSI	6170 PSI
TEST PRESSURE	450 PSI	1125 PSI	1500 PSI	2225 PSI	3350 PSI	5575 PSI	9275 PSI
OPERATING TEMPERATURE RANGE	-28 TO +540 DEG C	-28 TO +540 DEG C	-28 TO +540 DEG C	-28 TO +540 DEG C	-28 TO +540 DEG C	-28 TO +540 DEG C	-28 TO +540 DEG C

MATERIAL REQUIREMENTS: Carbon Steel, Alloy Steel, Stainless Steel, Duplex, Super Duplex, Inconel.

visit www.rbvenergy.com for more info

GENERAL NOTE: De-rating of maximum working pressure will occur as the operating temperature increases.

Diagram 17.1 Flanged DB&B Valves



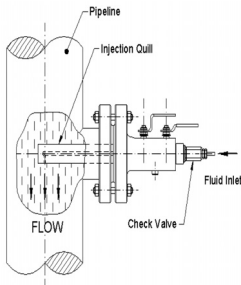
- One piece forged body
- Piping and instrument valves in one design.
- Seals resistant to explosive decompression.
- Hub and flanged ends options.

Diagram 17.2 Needle Valves



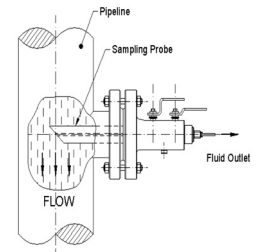
- Single needle valve or two, three or five valve manifolds available
- Anti blow-out spindle
- Positive sealing
- Low torque design

Diagram 17.3 Injection Quill



- DB&B with injection quill
- Allows injection of chemicals into process line
- Fluid enters the valve via a check valve located at the DB and B inlet
- Available in different lengths
- Welded or screwed

Diagram 17.4 Sampling Valves



- DB&B with sampling probe
- Allows direct sampling of the process line to be taken
- Available in different lengths
- Welded or screwed