



## DOUBLE BLOCK AND BLEED VALVES – DUAL VALVE

### Double Ball/Plug DB&B Valves

These valves have a single body with dual Ball or Plug valves with a bleed valve installed between the two main line valves. These valves are available bi-directional in metal seated and soft seated style, both in ANSI Class VI bubble tight shut off. These tandem design valves offer several advantages. Sometimes called twin valves, DB&B valves are available in Plug and Trunnion Ball type up to 600mm NB in ANSI 150 to 2500 class. They replace existing traditional techniques employed by pipeline engineers to generate a double block and bleed configuration in the pipeline. There are several designs and configurations of Double Block & Bleed valves as follows :-

### Single Ball Trunnion DB&B

Conventional single ball trunnion mounted ball valves have two energised generally bi-directional seats. The body cavity can then be fitted with a drain valve at the body cavity drain point and this type of valve is then sold as a “Double block and bleed valve”. Australian Pipeline Valve individually tests each valve to verify zero leakage at the drain point.

However, due to insurance reasons as well as for absolute assurance of sealing integrity, some customers require a dual ball or plug style to provide a higher level of assurance. Also, conventional single ball trunnion valves typically feature self relieving seats which need to be taken into account. Double piston effect seats are available on trunnion mount ball valves which can be specified on single ball DB&B valves. Unlike self relieving seats, these seats will not relieve pressure back upstream in the event of cavity over pressure. A body cavity external relief valve is instead fitted for this purpose.



### Cartridge Type Standard Length Dual Valves Trunnion DB&B Valves

Cartridge type standard length DB&B valves consist of two valves and a bleed valve in one compact cartridge type unit with ANSI B16.5 flanged & tapped connections. This design configuration allows the same face to face dimensions as a single block ball as specified in API 6D and ANSI B16.10. (Australian Pipeline Valve and its sub contract manufacturers can produce this type style of DB&B ball valve).



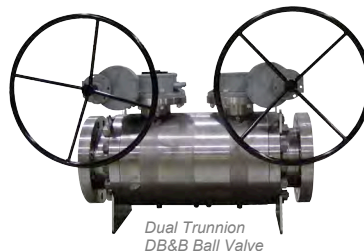
Australian Pipeline Valve

Fax: (08) 8285 0044 International Fax: +61-8-8285 0044 [www.australianpipelinevalve.com.au](http://www.australianpipelinevalve.com.au)



### Fully Flanged Long Pattern Dual Valve Trunnion DB&B Valves

DB&B valves feature the traditional style of flange-by-flange type and is available with ANSI B16.5 flanges, hub connections and weld ends. Australian Pipeline Valve and its manufacturing partners can manufacture this type of DB&B Ball valve.



*Dual Trunnion  
DB&B Ball Valve*

DB&B *Pug* valves in lubricated and non lubricated types are also available in a dual valve configuration in pressure balanced style, rectangular port, inverted plug and full circular port.

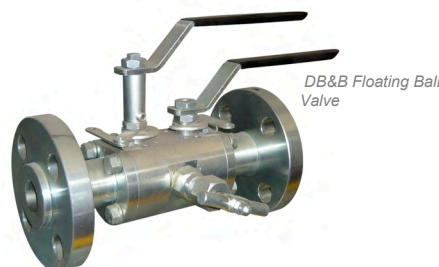


*DB&B Round Port Plug  
Valve*

Both these single body DB&B designs have operational advantages as there are less potential leak paths within the double block and bleed section of the valve.

### Dual Ball Floating Design DB&B Valves

In smaller sizes typically from 8NB (1/4") to 150NB (6") Floating Ball design firesafe certified Twin Ball Double Block & Bleed valves are also available. Australian Pipeline Valves and its manufacturing partners can supply this style of valve in very short delivery in A105N, LF2, 316, F51 in 150 to 2500 class.



*DB&B Floating Ball  
Valve*



Lower cost firesafe certified modular DB&B Dual Floating Ball valves are also manufactured by Australian Pipeline Valve in flanged & screwed ends.

This style can also be configured with one ball plus one needle valve in-line with an additional needle valve side bleed in cartridge style configuration with tapped ends to suit flanged connections both ends. For instrumentation use, mono flange wafer style, needle valve DB&B valves are also manufactured in short lead times.



*Australian Pipeline Valve puts the same care and attention to detail in this website as every facet of our business. If you find this website useful, refer it to your engineers, plant managers, and purchasing staff. Australian Pipeline Valve can manufacture and supply ANSI/ASME, API, AS and BS valves in short lead times.*