

DK LOK DBB Overview

DOUBLE BLOCK & BLEED VALVE







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1. DBB?





Definition : DBB & Monoflange

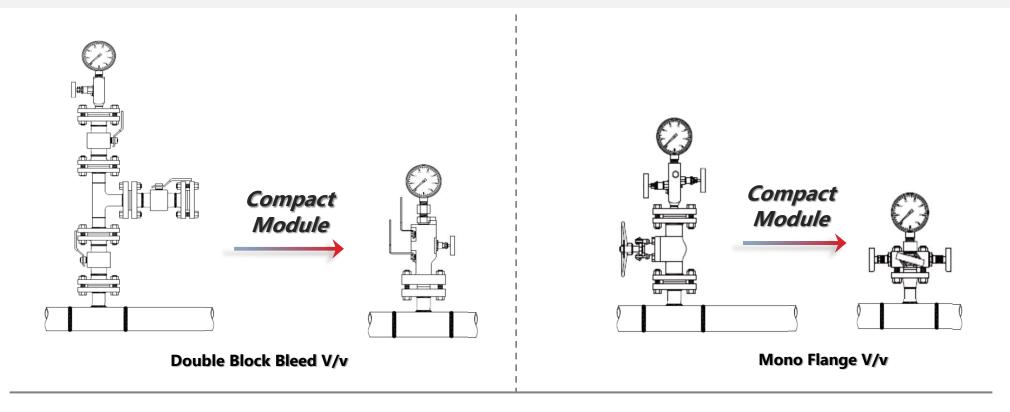
- DK-Lok Double Block & Bleed and Monoflange Valve enable a smooth transition from the process piping system to instrumentation in a single configuration.
- Used for Process piping isolation points, Direct mount to instruments and sampling system etc..
- Providing fewer potential leak points, lower installed weight, and a smaller space envelope.

Application

- Offshore oil and gas production
- Offshore terminals
- Chemical, petro-chemical, refining
- Control panel manufactures



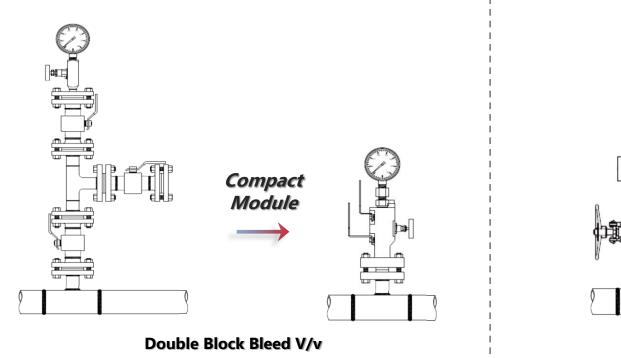
2. Feature

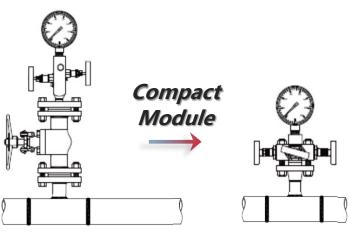


Installation

- Compact size and reduced weight minimize space envelops and support structure required
- Installation of single valve unit is faster than multiple valves
- Single valve unit reduces the number of joints and potential leak paths
- Single-source unit reduces maintenance time and cost

2. Feature





Advantages

- More compact design
- Reduced weight and height
- High Performance Seats
- Reduced vibrational stresses
- Reduced gaskets and bolting
- Reduced installation cost

Application

- DBB instrument isolation
- Piping instrument interface
- Chemical instrument isolation
- Chemical injection connection
- Direct mounting of instruments
- Remote mounting of instruments

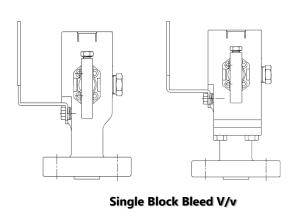
- Gauge isolation

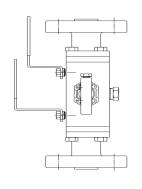
Mono Flange V/v

- Instrument drain
- Sample connection

3. Process Interface Valve (DBB)







Double Block Bleed V/v

Size

- Flange Size: 1/2" to 3"
- Bore Size(mm): 9.5, 14, 19, 25, 38, 50

Design Standard

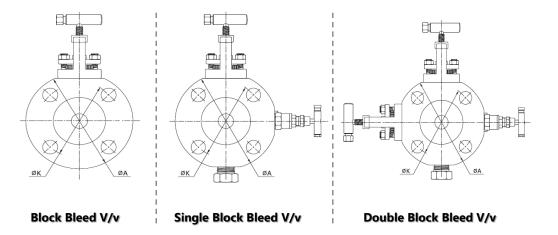
- Valve Body: ASME B16.34 / API 6D
- Flange Connection: ASME B16.5
- Thread Connection: ASME B1.20.1
- Fire Safety Design
- Anti-Static Device
- Blow-Out Proof Stem

Item Range

- Pressure Class 150 To 2,500
- Temperature Range
 - Soft Seat: -46 °C ~ 204 °C
 - Metal Seat: -46 °C ~ 400 °C

3. Process Monoflange





Size

- Flange Size: 1/2", 3/4", 1", 1 1/2", 2"

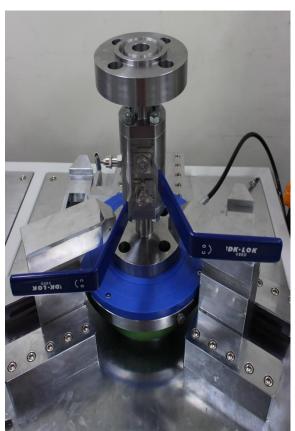
Design Standard

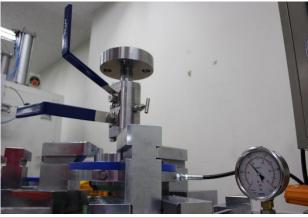
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4. **Testing** 1/2 – Hydrostatic Test







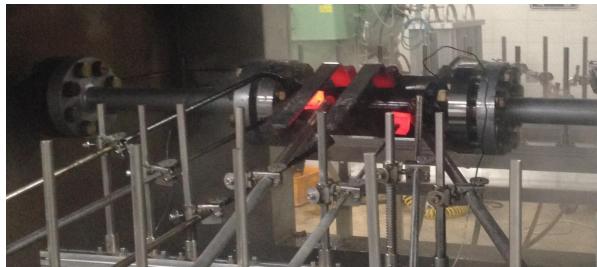
Testing

- Factory Test (Hydro Test)
 - Shell Test: Max. Working Pressure X 1.5
 - Seat Test: Max. Working Pressure X 1.1
- If Required
 - API 598 / API6D / ISO 5208 / BS 6755-1

4. Testing 2/2 – Fire Safe Test







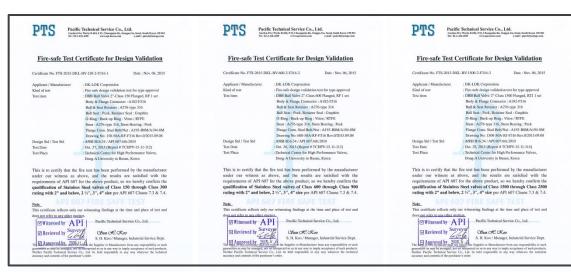
Optional Test

- Performed by Dong-A University Technical Center
- Fire Safe Test: API 607
- Fugitive Emission Test: ISO 15848 ½
- Class: 150 through 1,500
- Flange size : 2", 2 ½", 3", 4"
- Material: A105, A182

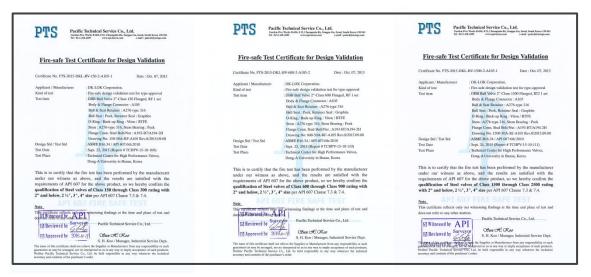
5. Manufacturing Process



6. Certification



A182 Class 150~2500(Carbon steel)



Fire safe Test Certificate

- Certified by: PTS Pacific Technical Service Co.,Ltd.

- Certificate No.:

- 1) A182 Class 150: FTS-2015-DKL-BV-150-2-F316-1
- 2) A182 Class 600: FTS-2015-DKL-BV-600-2-F316-2
- 3) A182 Class 1500: FTS-2015-DKL-BV-1500-2-F316-3
- 4) A105 Class 150: FTS-2015-DKL-BV-150-2-A105-1
- 5) A105 Class 600: FTS-2015-DKL-BV-600-2-A105-2
- 6) A105 Class 1500: FTS-2015-DKL-BV-1500-2-A105-3



Fittings & Valves

