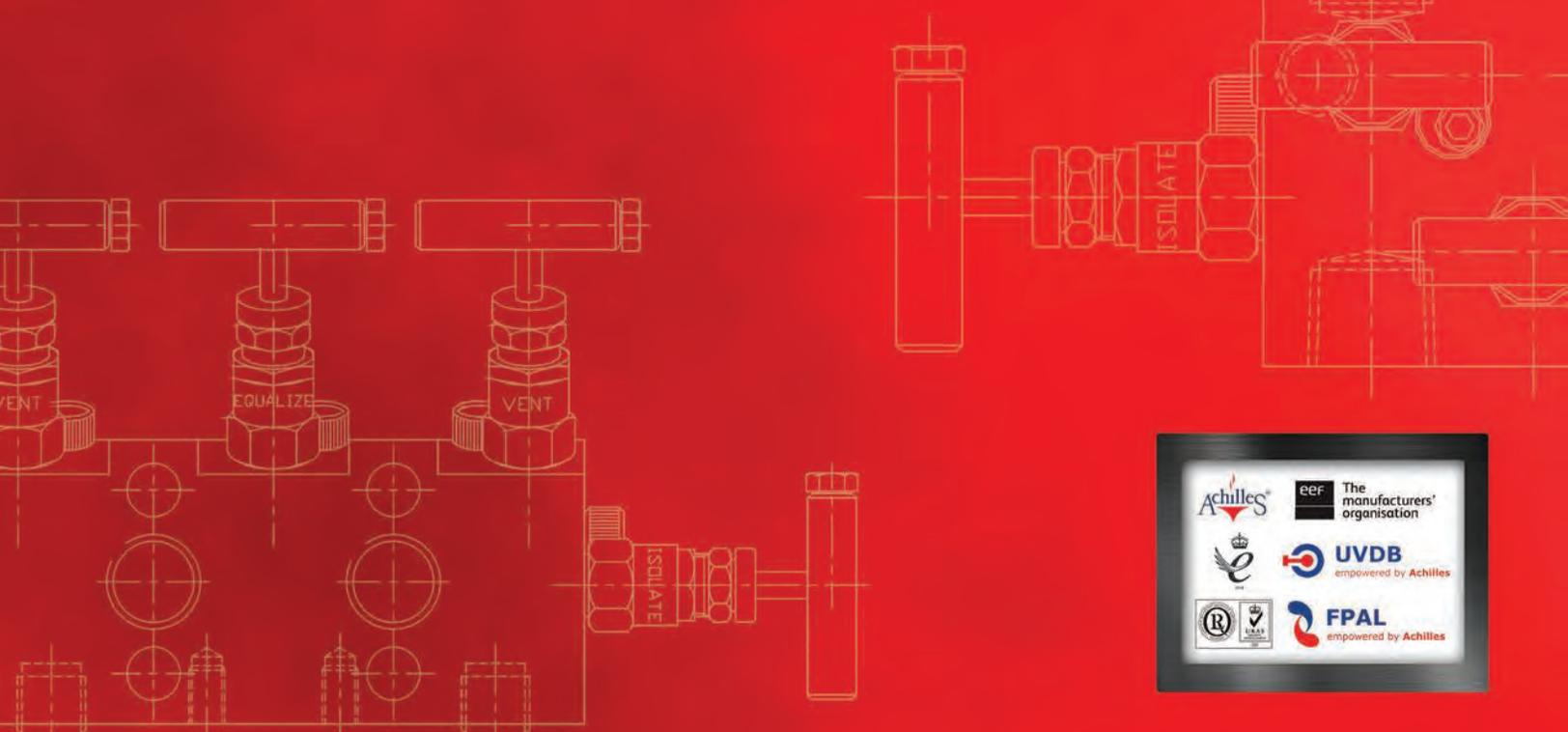




 **Alco Valves Group**<sup>®</sup>  
A  **GRACO**<sup>®</sup> Company

# Distribution Catalogue



# Welcome to the Alco Valves Ready to Go (RTG) Catalogue

## About Alco Valves

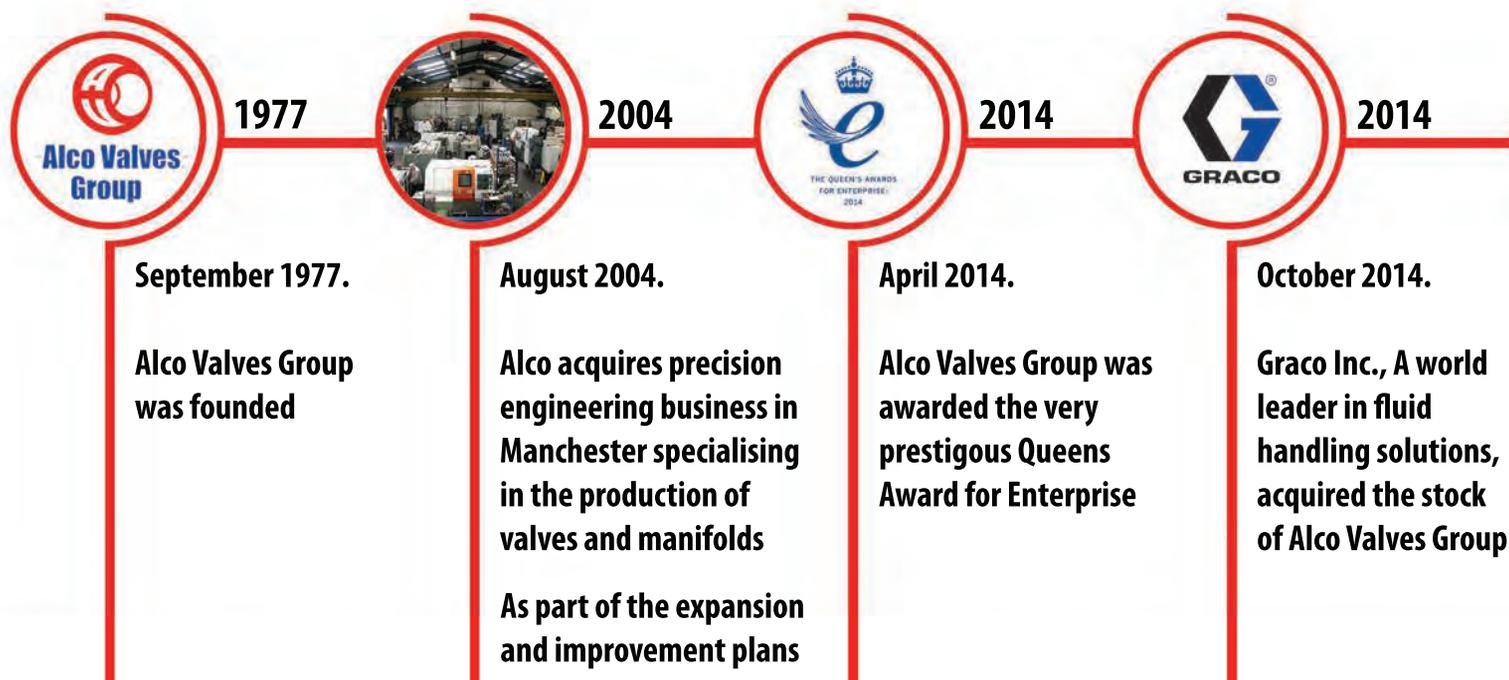
Founded in the United Kingdom September 1977, Alco Valves Ltd. was incorporated with the express purpose of manufacturing a comprehensive range of technically advanced, precision made, high integrity valve products and accessories.

With over thirty years of success behind it, Alco Valves has expanded, operating in over thirty countries world-wide with it's own office locations and partnerships around the world including: Brighthouse (UK Head Office), Canada, Singapore, Houston (USA) and Dubai.

## Our Mission Statement

*To provide safe, defect free, instrumentation and pipeline products for industrial and scientific use. To meet and exceed our clients requirements, specifications and expectations. To provide customer service second to none, now and into the future.*

## Milestones of our Story So Far...



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# Ready To Go (RTG) Product List

## Ball Valves

316 S/Steel Material, NPT End Connections, Lever Handle (Mazak handle for 'SN' Series):

'PB' Series - 1/4" to 1"

'PSB' Series - 1/4" to 1"

'UE' Series - 1/4" to 1"

'UB' Series - 1/4" to 1"

3-Way 'SB' Series - 1/4" to 1/2"

3-Way 'PSB' Series - 1/4" to 1/2"

'SN' Series - 1/4" to 1"

## Needle Valves

316 S/Steel Material, NPT End Connections, T-Bar Handle:

'UN' Series - 1/4" to 1"

'UN-V' Series - 1/4" & 1/2"

'UGV' Series - 1/2"

## Manifold Valves

316 S/Steel Material, NPT End Connections, T-Bar Handle:

'U2VR' Series - 1/4" & 1/2"

'U2VG' Series - 1/2"

'3VR' Series - 1/2"

'3VD' Series - 1/2"

'3VBD' Series - 1/2"

'5VR' Series - 1/2"

'5VD' Series - 1/2"

'5VBD' Series - 1/2"

## DBB Valves

316 S/Steel Material, NPT End Connections, Lever/T-Bar Handle (T-Bar handle only, for 'N' Series):

DBB 'B' Series - 1/2"

DBB 'N' Series - 1/2"

## Check Valves

316 S/Steel Material, NPT End Connections:

'EC' Series - 1/4" to 1"

'EUC' Series - 1/4" to 1/2"



\*Other Sizes are available on request

# Ball Valves

'PB' Series

'PSB' Series

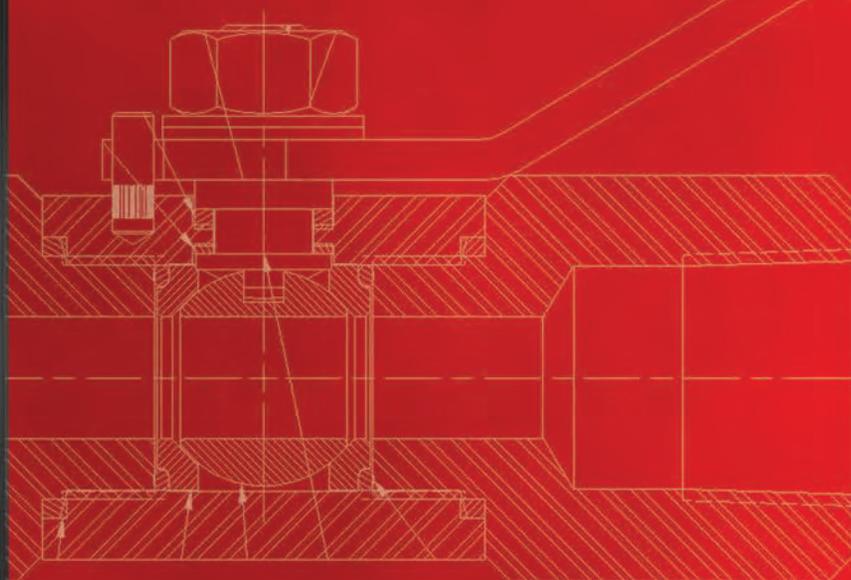
'UE' Series

'UB' Series

3-Way 'SB' Series

3-Way 'PSB' Series

'SN' Series



# 'PB' Series Ball Valve

## High Pressure Ball Valves



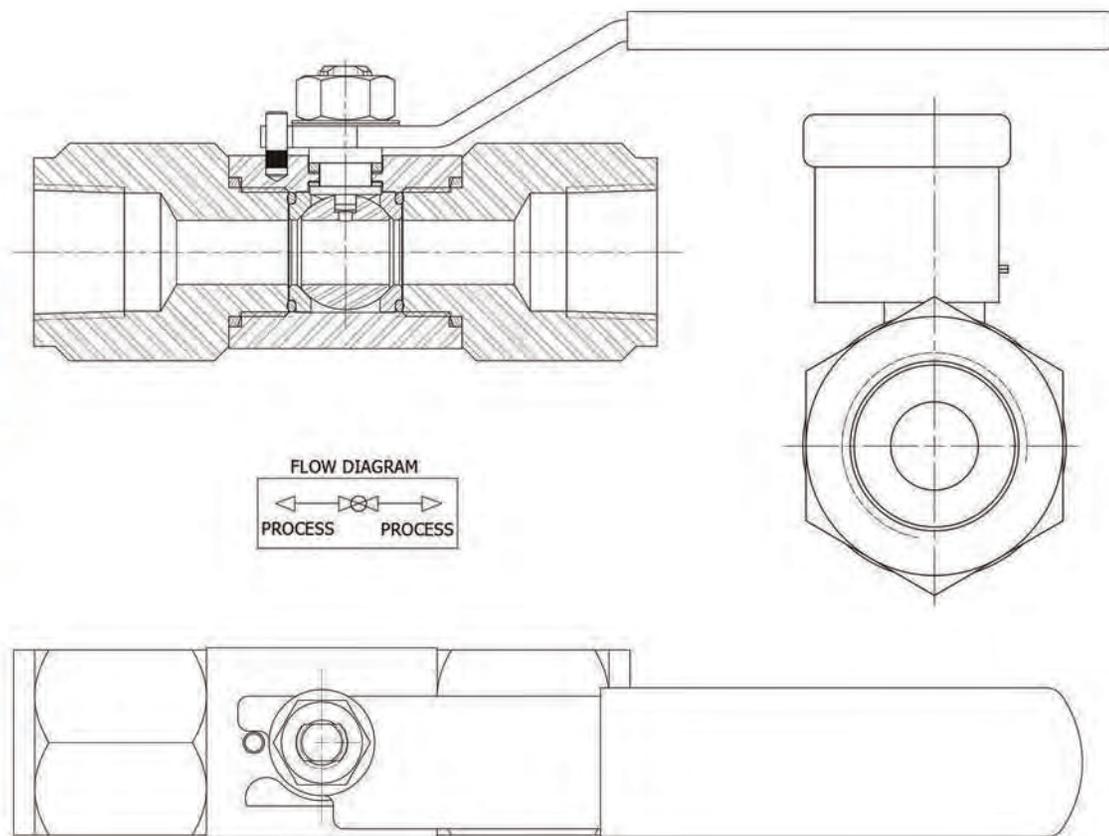
The 'PB' series high pressure 3 piece ball valve offers flexibility where, by the end connection sizes and types, can be mixed i.e. PB4NS-12N offers 1/2" to 1/4" reduction in size across the valve.

This design helps eliminate the use of fittings and additional unwanted potential leak paths. Rated at 414 bar, the 'PB' series is a reliable, compact and flexible isolation ball valve with many options.

The 'PB' series is a Bi-Directional floating ball design to ensure a leak proof shut off on pressure or vacuum.

## Design Features:

<b>Temperature Range:</b>  -40°C to 150°C	<b>Pressure Rating:</b>  Up to 6,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Flexible 3 Piece Design</b> 
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	<b>Choice of End Connectors</b> 
<b>Choice of Handles</b> 	<ul style="list-style-type: none"> <li>Anti-Blowout internally loaded stem for safety</li> <li>Handle indicates OPEN / CLOSED position at a glance</li> </ul>



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Section 1

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Reference: AV\_RTG\_2015\_08\_BV\_PB

# 'PSB' Series Ball Valve

## High Pressure Ball Valves



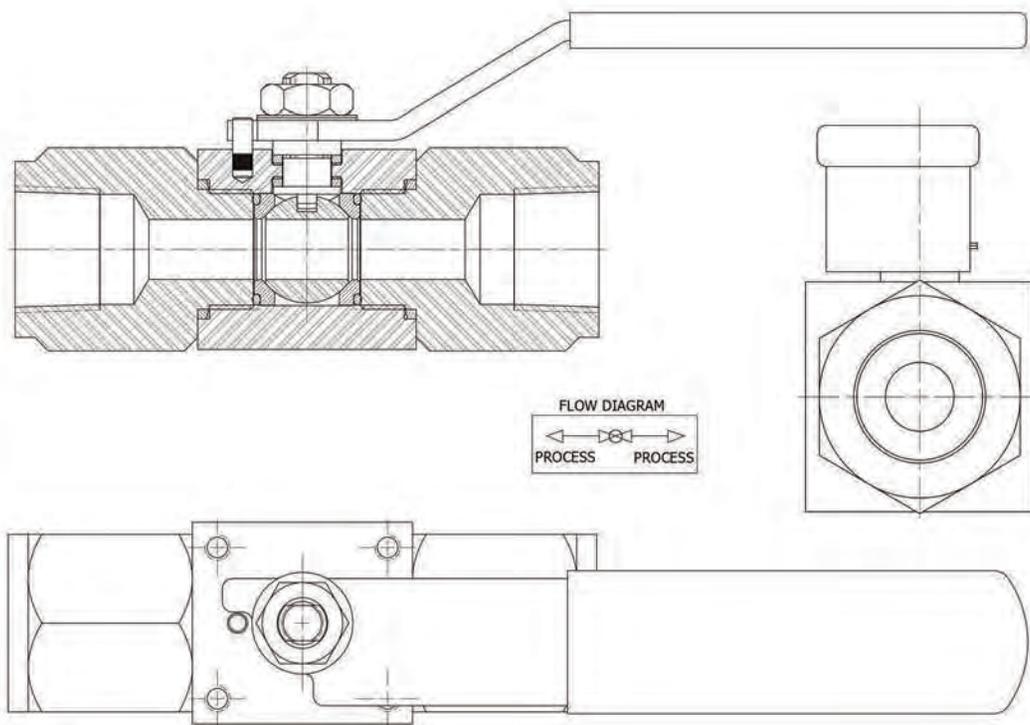
The Panel Mount range or 'PSB' series is a variation of the standard 'PB' series and as such retains its flexibility of end connection variations with the added advantage of the panel mounting facility onto a flat face.

The 'PSB' valve is easy to mount to a control panel or actuator. The major benefits of using four panel mount holes instead of one single nut type are that this design eliminates the possibility of the valve turning underneath a panel. This would cause undue stressing of the thread joint.

Also four small holes can be beneficial for positioning. If access to the panel is reduced, only two holes (diagonally opposite) can be used. The 'PSB' series is a Bi-Directional floating ball design to ensure a leak proof shut off on pressure or vacuum.

## Design Features:

<b>Temperature Range:</b>  -40°C to 150°C	<b>Pressure Rating:</b>  Up to 6,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Flexible 3 Piece Design</b> 
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	<b>Material Options:</b>  Choice of Handles and Trim Materials
<b>Choice of End Connectors</b> 	<ul style="list-style-type: none"> <li>• Anti-Blowout internally loaded stem for safety</li> <li>• 90° quick, light action handle indicates position</li> <li>• Can be supplied bare shaft and suitable for actuation</li> </ul>



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Reference: AV\_RTG\_2015\_08\_BV\_PSB

# 'UE' Series Ball Valve

## High Pressure Ball Valves



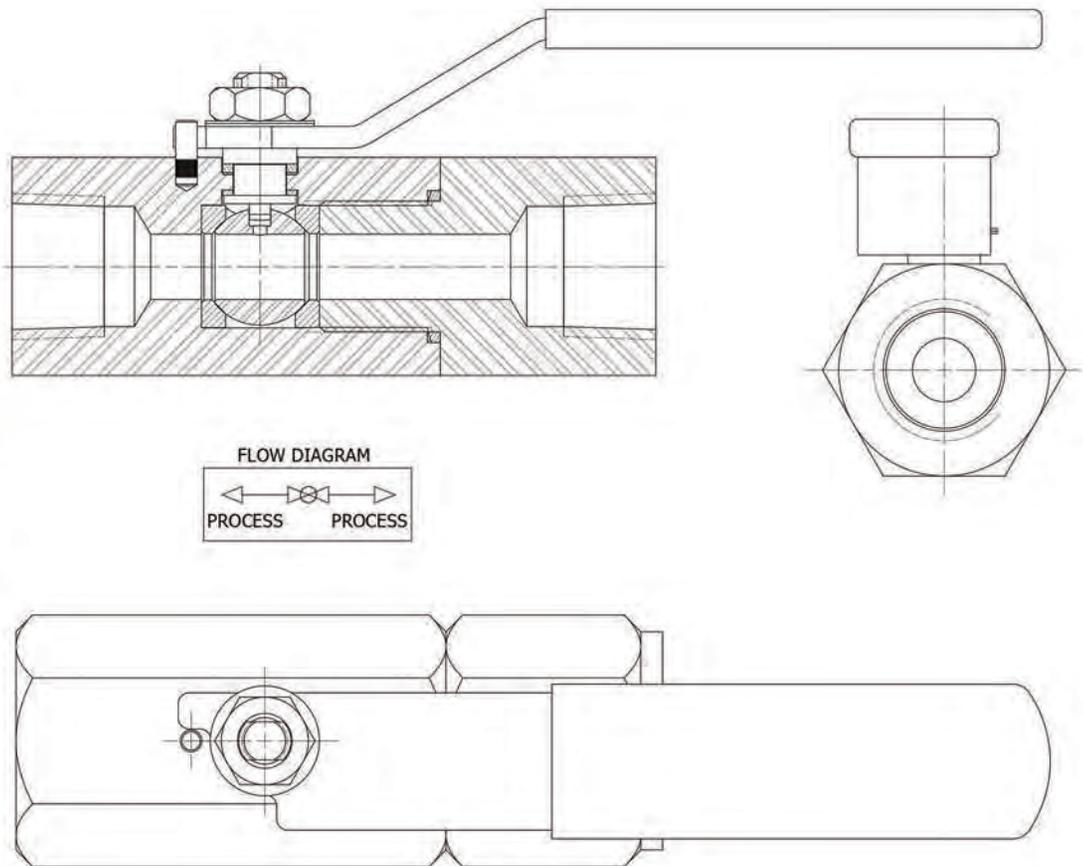
The 'UE' series is a compact hybrid of the 'A' and 'B' series ball valve range. The 'UE' series has been designed to be lighter and more compact than the 'UB' series range.

It is available in a variety of configurations to suit many applications within the instrumentation and general engineering industries. The 'UE' series comes with a stainless steel lever handle or the optional marine coated compact 'T' bar handle as standard.

The 'UE' series provides a fully floating ball for first time seal. The 'UE' series is a Bi-Directional floating ball design to ensure a leak proof shut off on pressure or vacuum.

## Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 10,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>2 Piece Design</b> 
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	<b>Material Options:</b>  Choice of Trim Materials
<b>Choice of End Connectors</b> 	<ul style="list-style-type: none"> <li>Anti-blowout internally loaded stem for safety</li> <li>90° quick, light action handle indicates position</li> </ul>



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Reference: AV\_RTG\_2015\_08\_BV\_UE



# 'UB' Series Ball Valve



## High Pressure Ball Valves

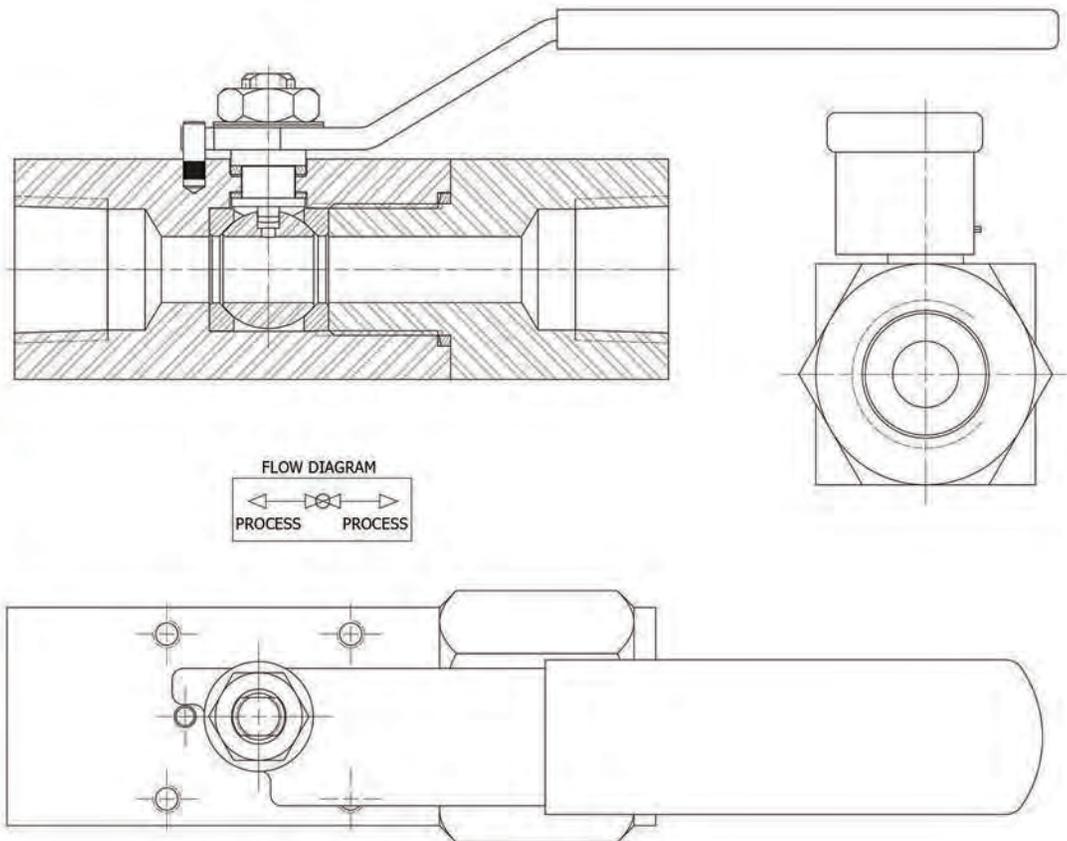
Alco are aware of the ever increasing operating pressures demanded by industry, and for this reason have developed the 'UB' range of valves to accommodate these stringent requirements.

The UB series high pressure valve has a working pressure of 10,000psi with a body test at 15,000psi. The UB series is a tried and tested rugged design for high pressure applications. It comes with panel mounting holes and stainless steel handle as standard.

Available as full bore or standard bore. Many options available such as a locking device. The 'UB' series is a Bi-Directional floating ball design to ensure a leak proof shut off on pressure or vacuum.

## Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 10,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>2 Piece Design</b> 
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	<b>Choice of End Connectors</b> 
<ul style="list-style-type: none"> <li>• Anti-Blowout internally loaded stem for safety</li> <li>• Quick 90° operation lever handle standard</li> <li>• Available with 4 panel mounting holes M4 x 6 deep. Can be actuated</li> </ul>	<ul style="list-style-type: none"> <li>• Can be supplied bare shaft and suitable for actuation</li> <li>• Renewable seats and seals for long life</li> </ul>



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Section 1

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Reference: AV\_RTG\_2015\_08\_BV\_UB

# 3-Way 'SB' Series Ball Valve

## 3-Way Ball Valves

The 3-way L-Port diverter valves are an economical and safe method of diverting high pressure lines, where several high 2-way valves may have been used.

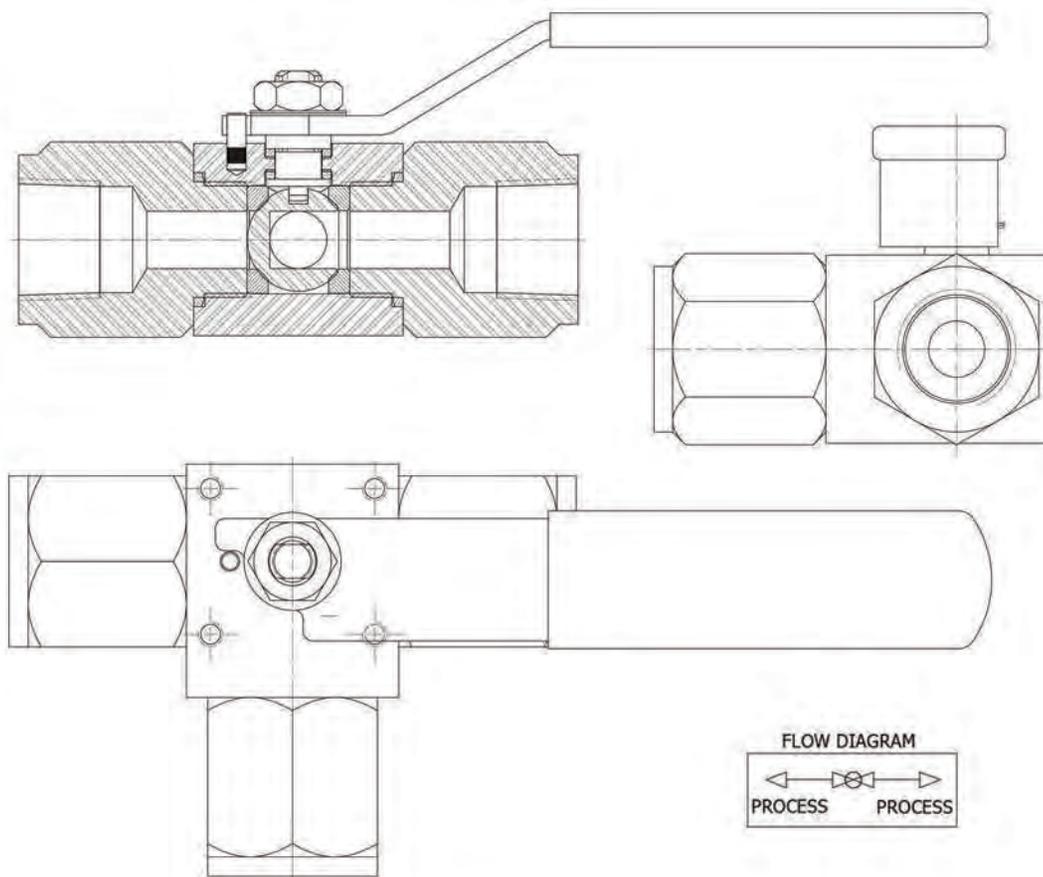
Ensuring an altogether safe, compact and easy to install solution to low and high pressure diversion. Available in bottom or side entry body formats. Many options apply including locking devices, actuator operations, etc.

Light, quick and positive 90° action side entry and 180° action on bottom entry version.



## Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 1,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Flexible 4 Piece Design</b> 
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	<b>Choice of End Connectors</b> 
<ul style="list-style-type: none"> <li>• Anti-Blowout stem for safety</li> <li>• Suitable for panel mount or actuation</li> <li>• Low operating torque under pressure</li> </ul>	



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Reference: AV\_RTG\_2015\_08\_BV\_3\_SB

# 3-Way 'PSB' Series Ball Valve

## 3-Way Ball Valves

The 3-way L-Port diverter valves are an economical and safe method of diverting high pressure lines, where several high 2-way valves may have been used.

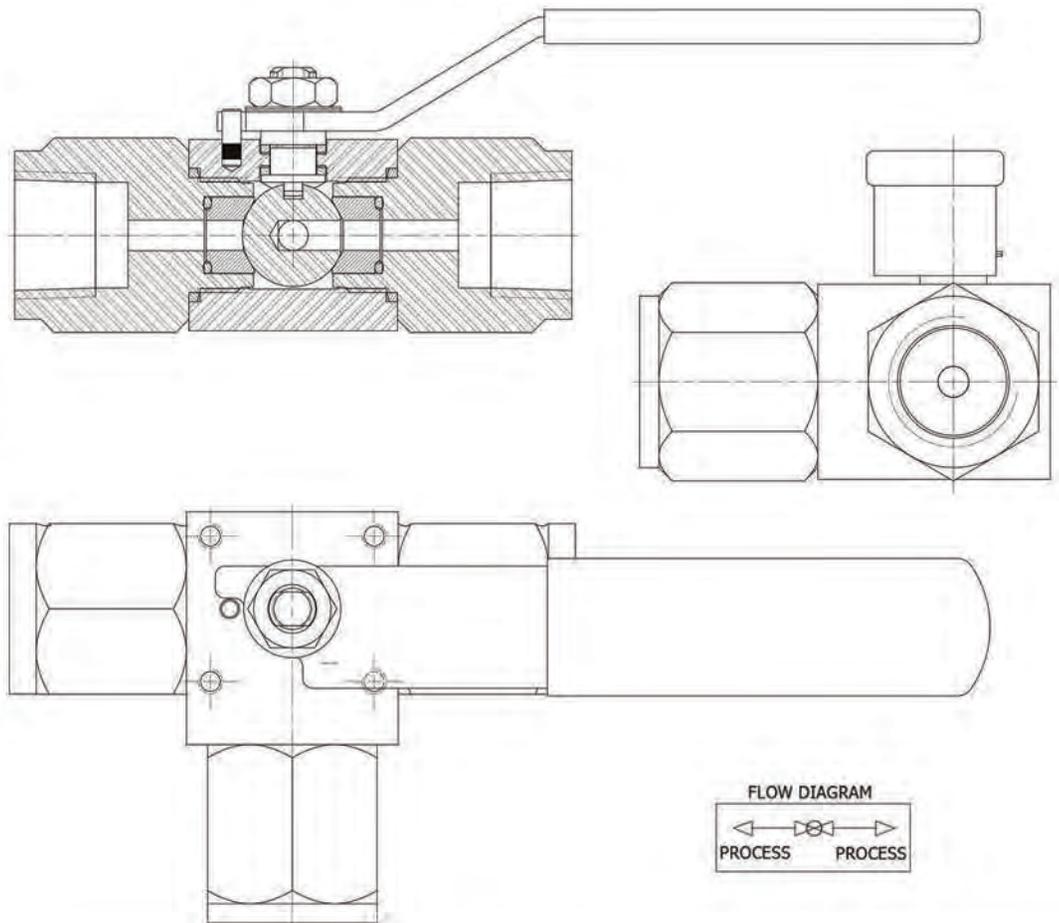
Ensuring an altogether safe, compact and easy to install solution to low and high pressure diversion. Available in bottom or side entry body formats. Many options apply including locking devices, actuator operations, etc.

Light, quick and positive 90° action side entry and 180° action on bottom entry version.



## Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 6,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Flexible 4 Piece Design</b> 
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	<b>Choice of End Connectors</b> 
<ul style="list-style-type: none"> <li>• Anti-Blowout stem for safety</li> <li>• Suitable for panel mount or actuation</li> <li>• Low operating torque under pressure</li> </ul>	



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Section 1

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Reference: AV\_RTG\_2015\_08\_BV\_3\_PSB

# 'SN' Series Ball Valve

## Single Nut Mounted Ball Valves

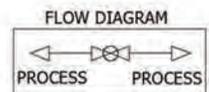
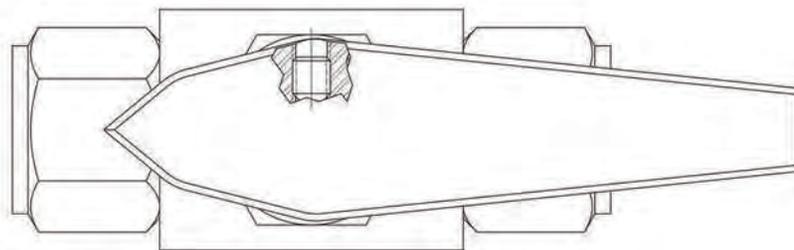
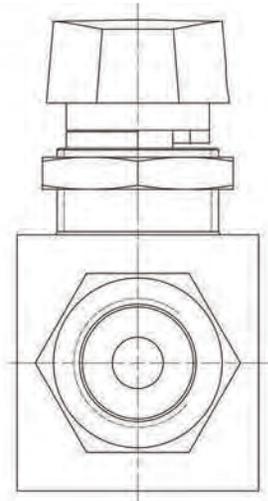
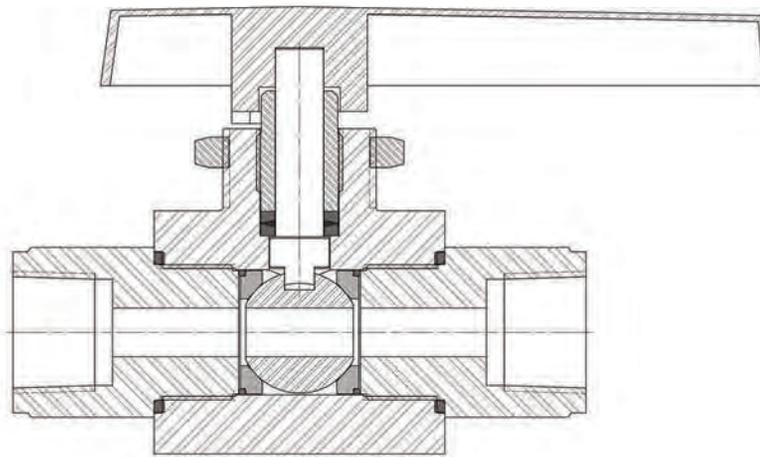


The single nut mounted ball valve is rated from vacuum up to 6,000psi. The single nut allows fast panel mounting. Max panel thickness is 11mm (dependant on valve size).

A heavy duty yet compact design offering easy installation and maintainability. The 'SN' series is a Bi-Directional floating ball design to ensure a leak proof shut off on pressure or vacuum.

### Design Features:

<b>Temperature Range:</b>  -40°C to 150°C	<b>Pressure Rating:</b>  Up to 6,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Choice of End Connectors</b> 	<b>Material Options:</b>  316ss / Duplex / Monel /
<b>Repair Kits Available</b> 	<ul style="list-style-type: none"> <li>90° low torque operation</li> <li>Single nut mounting facility for ease of installation</li> <li>Mazak pointer handle to indicate direction of flow</li> </ul>



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Section 1

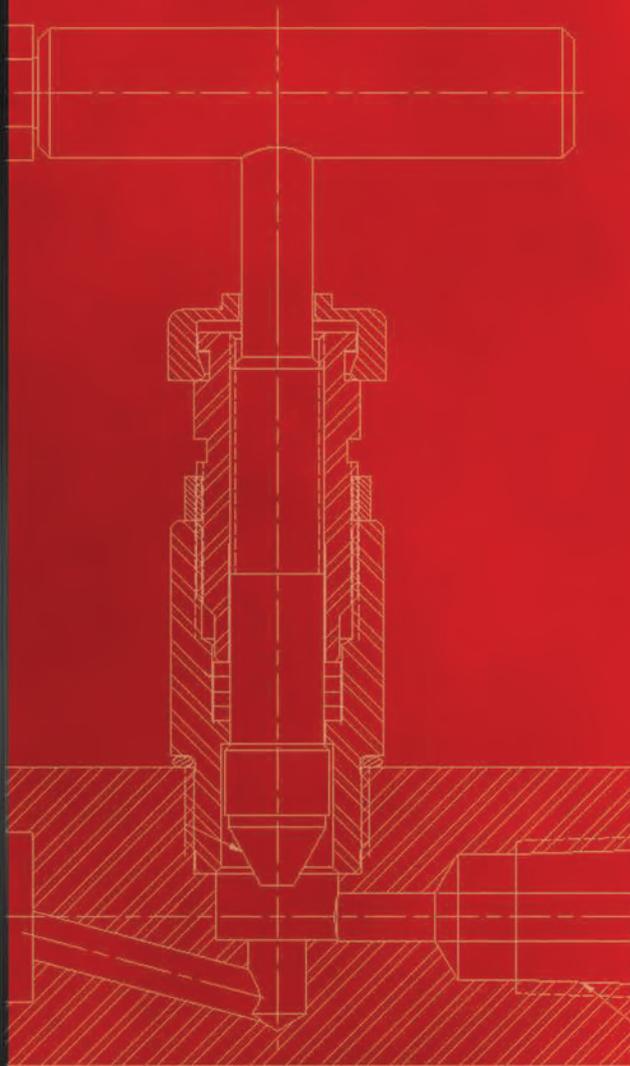
Page 7



Reference: AV\_RTG\_2015\_08\_BV\_3\_SN

# Needle Valves

'UN' Series  
'UN-V' Series  
'UGV' Series



SECTION A-A



# 'UN' Series Needle Valve



## High Pressure Needle Valves

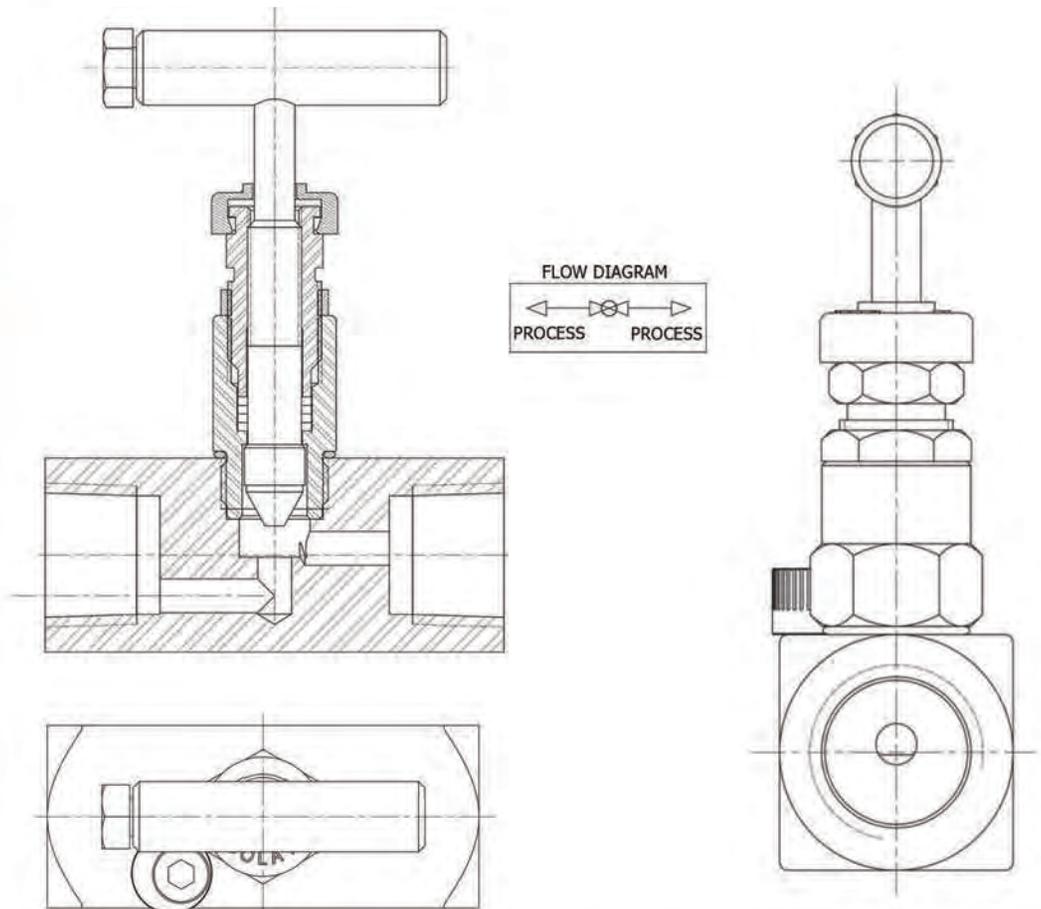
The precision made 'UN' series, single isolation hand valve utilising metal to metal seat and body to bonnet connection for superior, bubble tight sealing capabilities at both extreme pressures and temperatures.

The 'UN' series also offers a 2 piece non-rotating hardened tip for extended service life. The unique anti-vibration cam locking device at the body bonnet connection is for extra safety.

Actuating threads are above the packing seals to prevent contamination by process medium. Maximum working pressure is 10,000psi. Maximum working temperature up to 230°C and up to 427°C with GP option. The UN series has a positive no slack stem action.

## Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 10,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Fire Safe Design</b>  Option is Available
<b>Choice of End Connectors</b> 	<b>Body to Bonnet Ingress Sealing Fitted as Standard</b>  To Prevent Corrosion
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	



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Page 1



Reference: AV\_RTG\_2015\_08\_NV\_UN

# 'UN-V' Series Needle Valve



## High Pressure Needle Valves

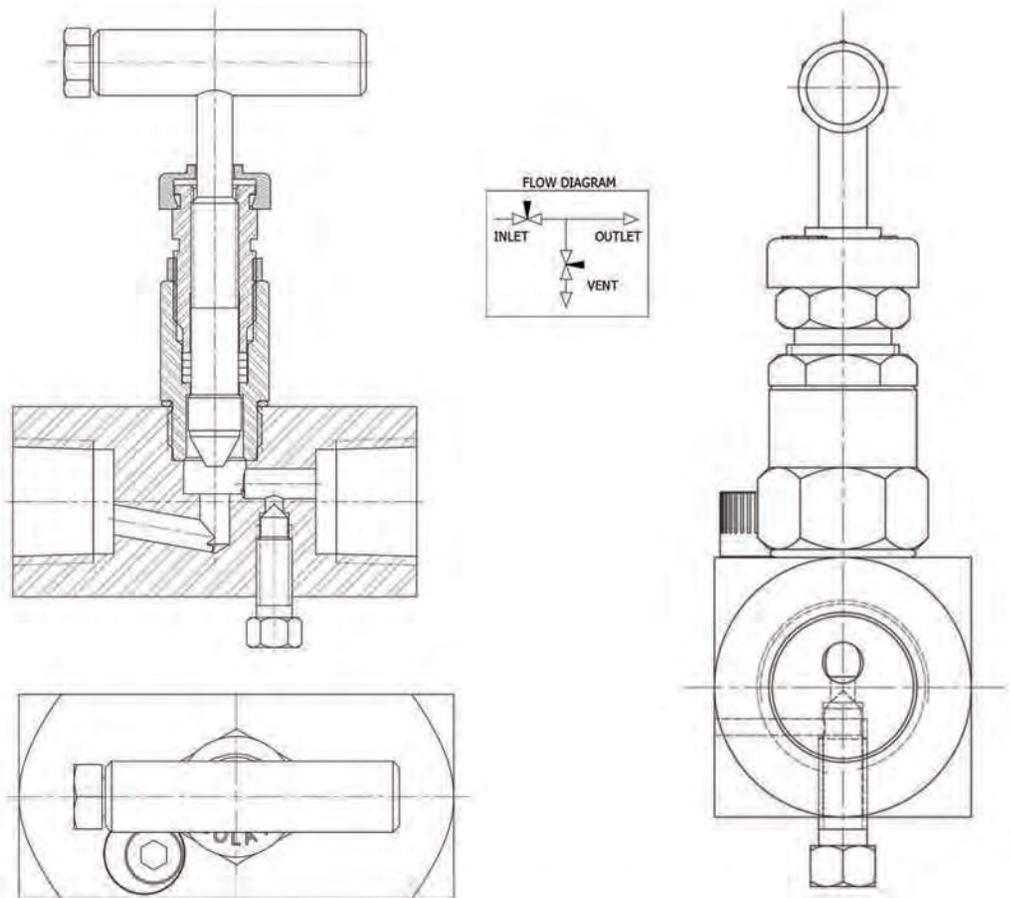
The precision made 'UN-V' series, single isolation hand valve utilising metal to metal seat and body to bonnet connection for superior, bubble tight sealing capabilities at both extreme pressures and temperatures.

This design also provides an economical method for venting pressure on the downstream making it easy for calibrating gauges and pressure switches. The 'UN-V' series also offers non-rotating hardened tip for extended service life.

The unique anti-vibration cam locking device at the body bonnet connection is for extra safety and ease of maintenance. Maximum working pressure is 10,000psi. Maximum working temperature up to 230°C and up to 427°C with GP option. Downstream to atmosphere venting facility. The UN-V has a positive no slack stem action.

## Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 10,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Fire Safe Design</b>  Option is Available
<b>Choice of End Connectors</b> 	<b>Body to Bonnet Ingress Sealing Fitted as Standard</b>  To Prevent Corrosion
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	



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Section 2

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Reference: AV\_RTG\_2015\_08\_NV\_UN-V

# 'UGV' Series Gauge Valve

## Multiport Gauge Valves

The GV series multiport gauge valve provides an economical method of mounting pressure gauges, manometers, pressure transducers or transmitters and includes vent and blanked port facilities or additional drains in a circuit or system.

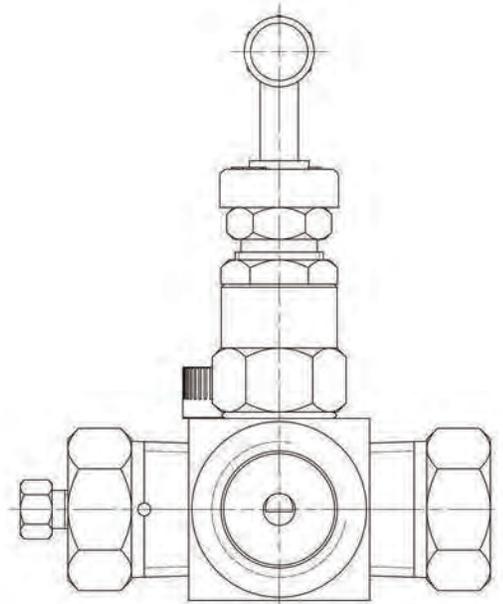
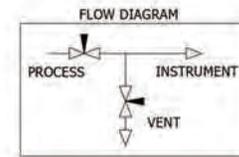
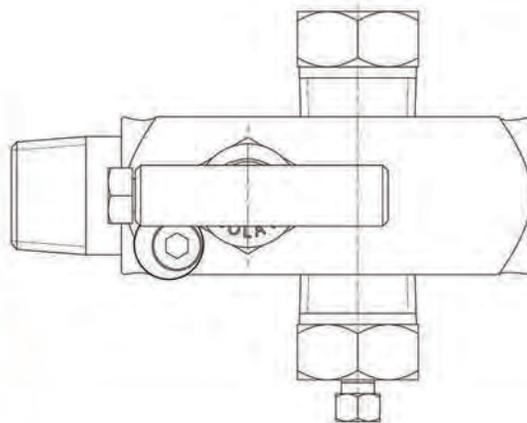
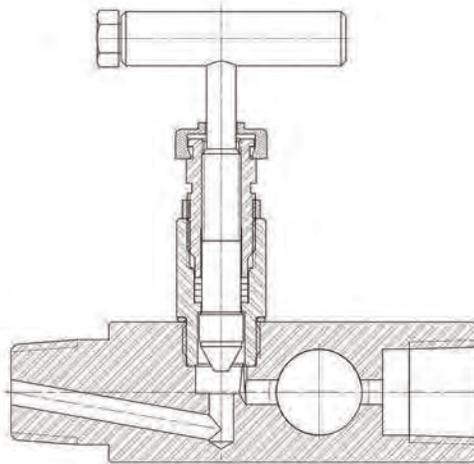
Both 1/2" and 3/4" have 1/2" side ports. Especially suited as a method of using a manometer and a sample manometer or a transmitter and manometer simultaneously. Compact 1/4" all around version available. Pressure responsive multi-ring / piston packing for compression and pressure sealing.

2 piece non-rotating hardened tip for first time seal and long service life. Other options such as hand wheels, locking devices and 50mm and 100mm extensions are available. Unique bonnet locking cam for extra safety and ease of maintenance.



## Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 10,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Fire Safe Design</b>  Option is Available
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	<b>Choice of End Connectors</b> 
<b>Body to Bonnet Ingress Sealing Fitted as Standard</b>  To Prevent Corrosion	<ul style="list-style-type: none"> <li>Positive no slack stem action</li> <li>Metal to metal body bonnet seal for high pressure sealing</li> <li>Unique bonnet locking cam</li> </ul>



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Section 2

Page 3



Reference: AV\_RTG\_2015\_08\_GV\_UGV

# Manifold Valves

'U2VR' Series

'U2VG' Series

'3VR' Series

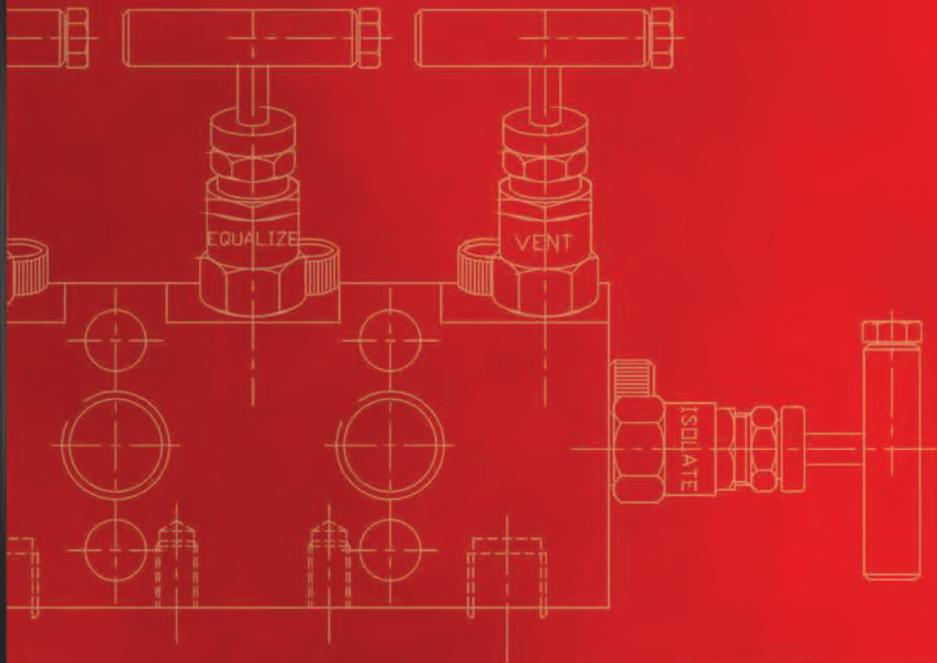
'3VD' Series

'3VBD' Series

'5VR' Series

'5VD' Series

'5VBD' Series



eeF The manufacturers' organisation



UVDB empowered by Achilles



FPAL empowered by Achilles

# 'U2VR' Series Needle Manifold Valve

## 2 Valve Needle Manifold Valves

The two-valve isolating and venting manifold used mainly in gauge and static instrument applications such as pressure switches, pressure transmitters and manometers. Unique bonnet locking cam for extra safety and for ease of maintenance

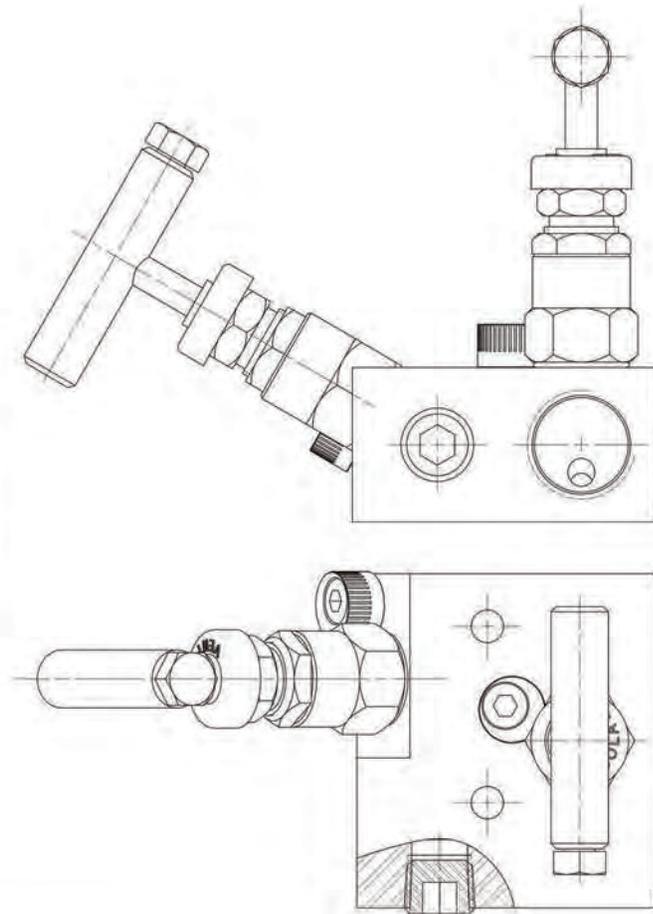
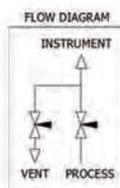
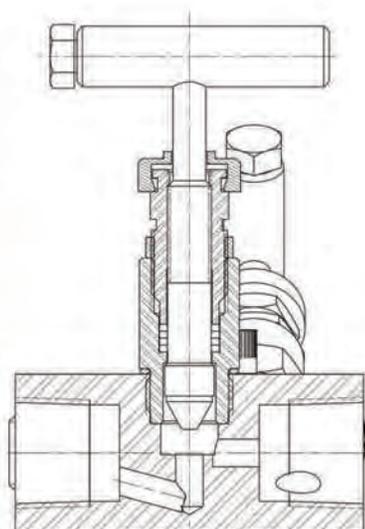
The manifold will isolate instrumentation from the process and allow venting of the instrument for calibration / removal from the circuit with affecting the process / application and recovery of a sample, etc. All valves have 2 piece non-rotating hardened tips as standard, for bubble tight shut off and long service life.

Incorporated are all the standard long service life features of the standard 'UN' series needle valve, multi-ring piston style packing, back sealing facility. Mounting holes supplied as standard for pipe or wall mounting to suit quick installation. No slack stem action.



### Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 10,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Body to Bonnet Ingress Sealing Fitted as Standard</b>  To Prevent Corrosion
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	<b>Fire Safe Design</b>  Option is Available
<ul style="list-style-type: none"> <li>Offset vent valve for ease of operation</li> <li>Metal to metal body bonnet seal for high pressure sealing</li> <li>Unique bonnet locking cam</li> </ul>	



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Section 3

Page 1



Reference: AV\_RTG\_2015\_08\_NV\_U2VR

# 'U2VG' Series Needle Manifold Valve

## 2 Valve Needle Manifold Valves

The U2VG series 2 valve gauge manifold offering single process isolation and controlled venting. Unlike the 'U2VR' series, this can be offered with male inlet and female outlet connections.

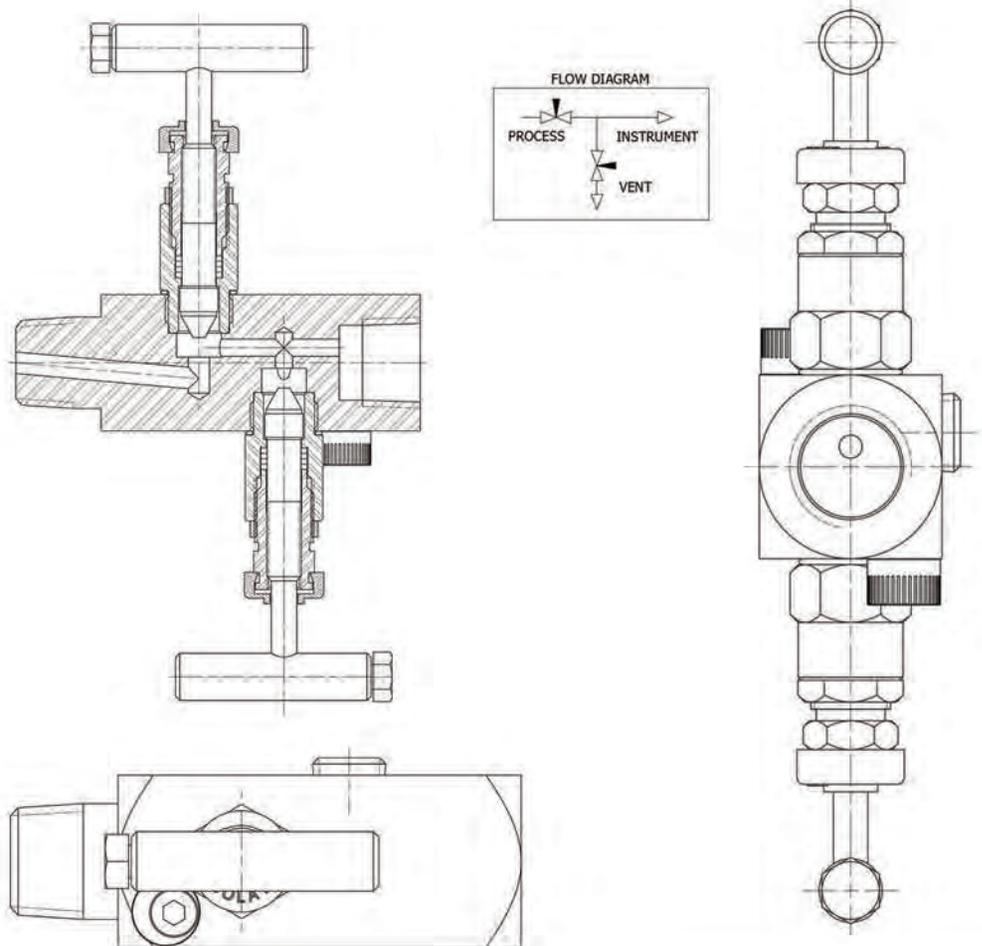
A slim-line and compact 2 valve manifold. Incorporated are all the standard long service life features of the standard 'N' series needle valve, multi-ring piston style packing and back sealing facility.

Most standard options such as locking devices are available. Can be supplied with mounting holes as an option to allow for fixing to pipe stands or enclosures. All valves have 2 piece non-rotating hardened tips as standard, for bubble tight shut off and long service life. Positive no slack stem action. Unique bonnet locking cam for extra safety and for ease of maintenance



### Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 10,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Body to Bonnet Ingress Sealing Fitted as Standard</b>  To Prevent Corrosion
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	<b>Fire Safe Design</b>  Option is Available
<ul style="list-style-type: none"> <li>Optional 50mm/100mm extended version</li> <li>Metal to metal body bonnet seal for high pressure sealing</li> <li>Unique bonnet locking cam</li> </ul>	



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Section 3

Page 2



Reference: AV\_RTG\_2015\_08\_NV\_U2VG

# '3VR' Series Needle Manifold Valve

## 3 Valve Needle Manifold Valves



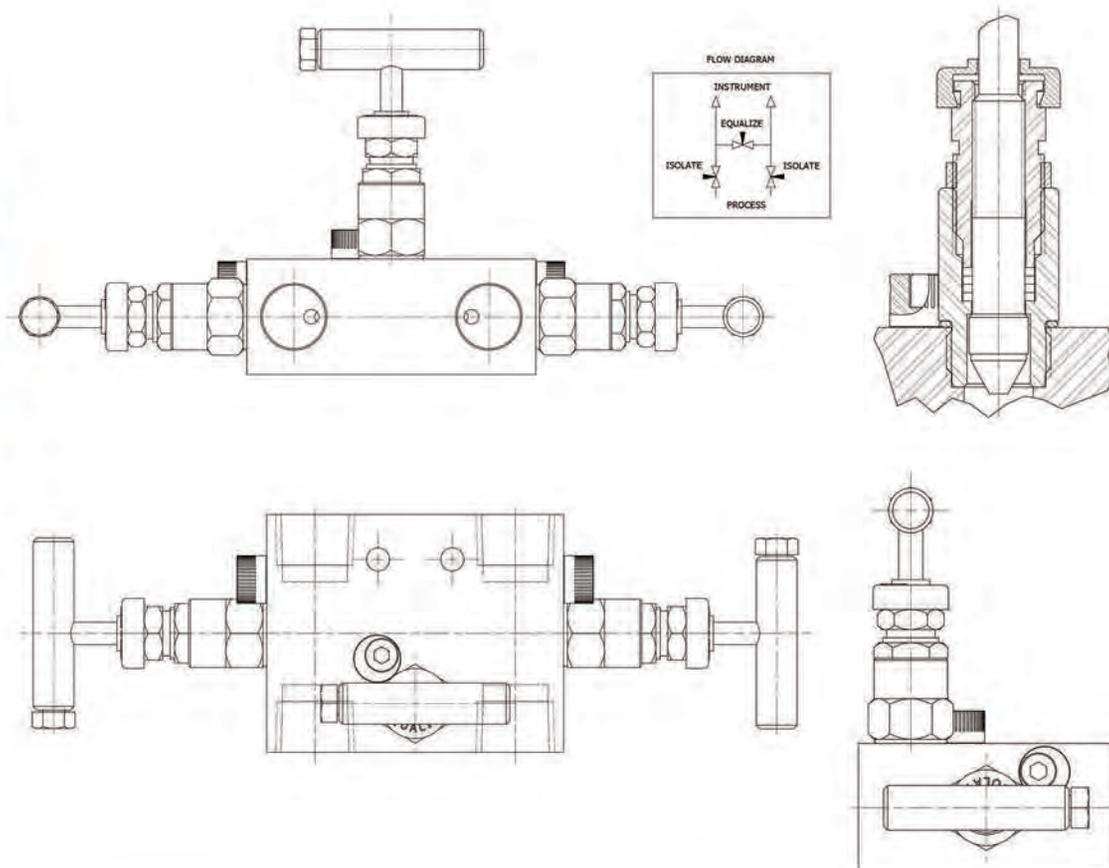
The three-valve isolation manifold remote mounted (pipe to pipe). Used mainly in differential pressure transmitters and static instrument applications. The '3VR' has two process isolation valves and one equalisation valve to equalise the two sides.

Incorporated all the standard long service life features of the standard 'N' series needle valve, multi-ring piston style packing, back sealing facility. 2 x 6mm diameter mounting holes supplied as standard for wall or bracket, to allow for fixing to pipe stands.

Standard 2 x 1/2" inlet x 2 x 1/2" outlet all on 54mm instrument centres with 2 x 1/4" vent port. All valves have 2 piece non-rotating hardened tips as standard, for bubble tight shut off and long service life. Positive no slack stem action. Unique bonnet locking cam for extra safety and for ease of maintenance.

## Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 6,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Body to Bonnet Ingress Sealing Fitted as Standard</b>  To Prevent Corrosion
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	<b>Fire Safe Design</b>  Option is Available
<ul style="list-style-type: none"> <li>Additional purge ports available optional</li> <li>Metal to metal body bonnet seal for high pressure sealing</li> <li>Unique bonnet locking cam</li> </ul>	



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Reference: AV\_RTG\_2015\_08\_NV\_3VR

# '3VD' Series Needle Manifold Valve

## 3 Valve Needle Manifold Valves



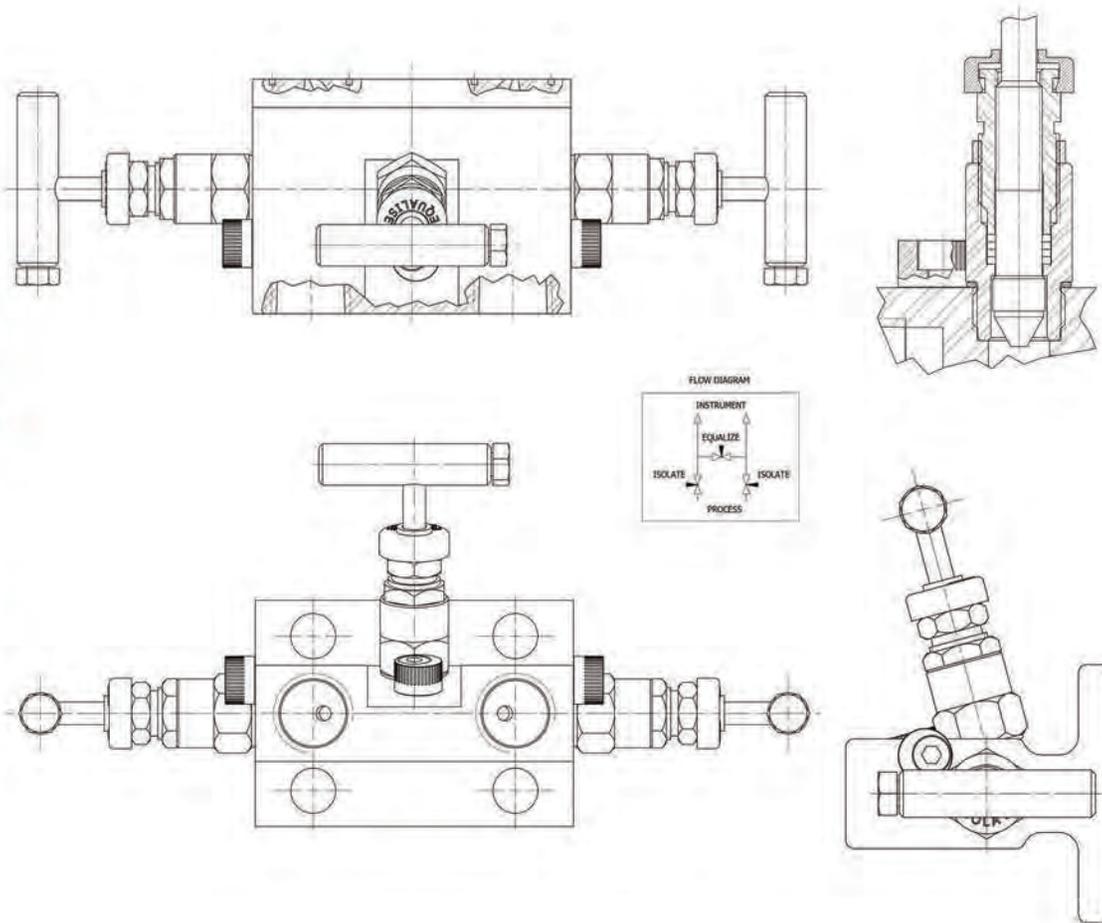
Direct mounted 3 valve manifold, instrument mount to pipe connection. Having a "T" section body format allows reasonable space envelope between the instrument and process lines.

The 3VD offers two isolation valves, and one equalising valve. This slim, compact 3 valve manifold offers all the features of Alco's high integrity needle valve head design incorporated in one common instrument manifold block.

All valves have 2 piece non-rotating hardened tips as standard, for bubble tight shut off and long service life. Positive no slack stem action. The 3VD is an offset equalise valve for ease of operation. Unique bonnet locking cam for extra safety and for ease of maintenance. Standard 2 x 1/2" inlet x 2 x 1/2" outlet all on 54mm instrument centres with 2 x 1/4" vent port.

### Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 6,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Body to Bonnet Ingress Sealing Fitted as Standard</b>  To Prevent Corrosion
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	<b>Fire Safe Design</b>  Option is Available
<ul style="list-style-type: none"> <li>Supplied with bolt pack and PTFE seals</li> <li>Metal to metal body bonnet seal for high pressure sealing</li> <li>54mm (2 1/8") instrument centres</li> </ul>	



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Reference: AV\_RTG\_2015\_08\_NV\_3VD

# '3VBD' Series Needle Manifold Valve

## 3 Valve Needle Manifold Valves



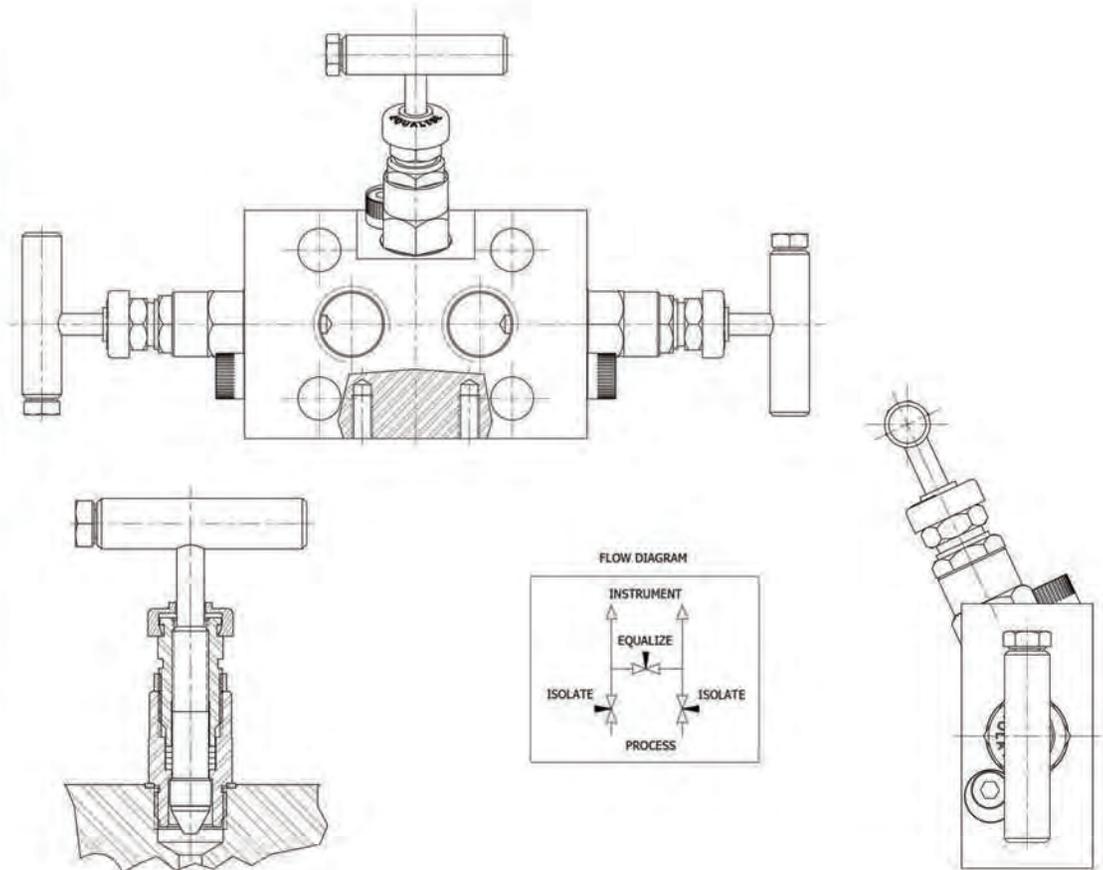
Direct mounted 3 valve manifold, instrument mount to pipe connection. Offering two isolation valves, and one equalising valve for differential pressure transmitter or static instrument applications. Unique bonnet locking cam for extra safety and for ease of maintenance

This slim, compact 3 valve manifold offers all the features of Alco's high integrity needle valve head design incorporated in one common instrument manifold block that mounts directly to an instrument. Provides a bubble tight shut off.

All valves have 2 piece non-rotating hardened tips as standard, for bubble tight shut off and long service life. Positive no slack stem action. The 3VBD is a compact bodied instrument manifold block and the base mounting hole allow fixing to the enclosure or mounting boss. Standard 2 x 1/2" inlet x 2 x 1/2" outlet all on 54mm instrument centres with 2 x 1/4" vent port.

## Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 6,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Body to Bonnet Ingress Sealing Fitted as Standard</b>  To Prevent Corrosion
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	<b>Fire Safe Design</b>  Option is Available
<ul style="list-style-type: none"> <li>Supplied with bolt pack and PTFE seals</li> <li>Metal to metal body bonnet seal for high pressure sealing</li> <li>54mm (2 1/8") instrument centres</li> </ul>	



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Reference: AV\_RTG\_2015\_08\_NV\_3VBD

# '5VR' Series Needle Manifold Valve

## 5 Valve Needle Manifold Valves



Remote mounted, pipe to pipe configuration five valve manifold. Offering two isolation valves, two vent valves and one equalising valve (see attached drawing). Used in differential pressure transmitters and static instrument applications.

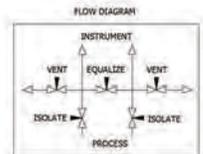
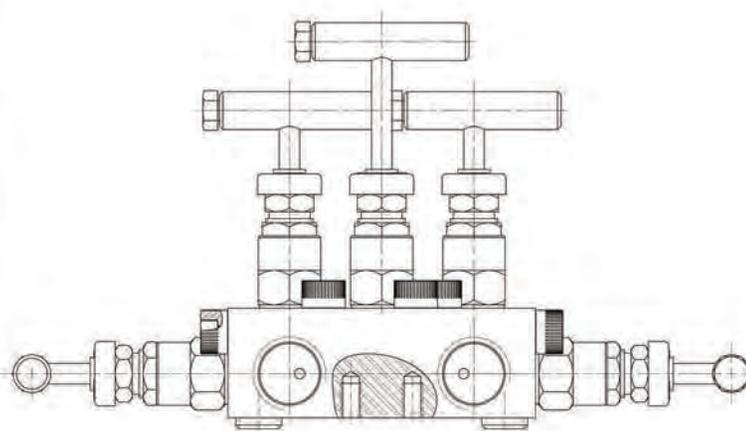
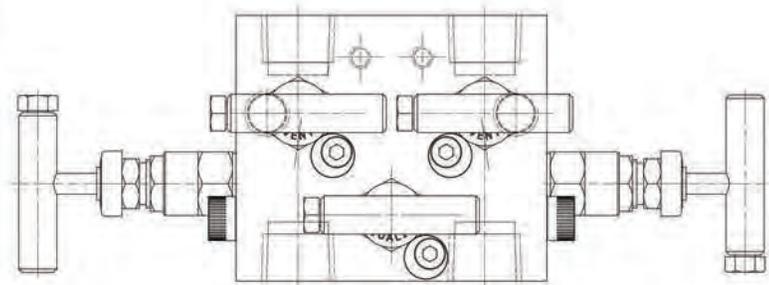
Standard 2 x 1/2" inlet x 2 x 1/2" outlet all on 54mm instrument centres with 2 x 1/4" vent port. Incorporating all the standard long service life features of the standard 'N' series needle valve, multi-ring piston style packing, back sealing facility.

Mounting holes supplied as standard for wall or bracket mounting. Provides a bubble tight shut off and two valve configurations available (oil & gas). Unique bonnet locking cam for extra safety and for ease of maintenance.

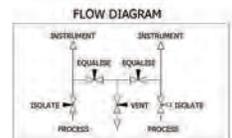
### Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 6,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Body to Bonnet Ingress Sealing Fitted as Standard</b>  To Prevent Corrosion
<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials	<b>Fire Safe Design</b>  Option is Available
<ul style="list-style-type: none"> <li>Vent porting in base for piping away</li> <li>Metal to metal body bonnet seal for high pressure sealing</li> <li>Unique bonnet locking cam</li> </ul>	

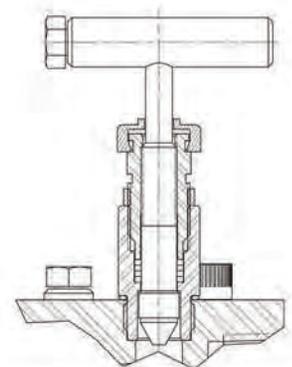
All valves have 2 piece non-rotating hardened tips as standard, for bubble tight shut off and long service life. Positive no slack stem action.



Oil Configuration



Gas Configuration



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Section 3

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Reference: AV\_RTG\_2015\_08\_NV\_5VR

# '5VD' Series Needle Manifold Valve

## 5 Valve Needle Manifold Valves



Direct mounted 5 valve manifold, instrument mount to pipe connection. Having a "T" section body format allows a reasonable space envelope between the instrument and process lines.

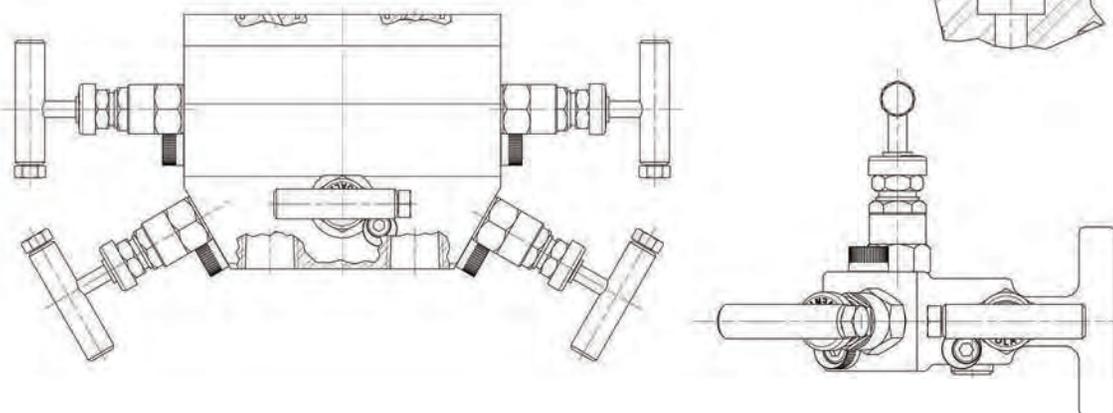
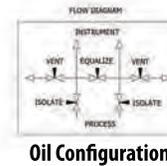
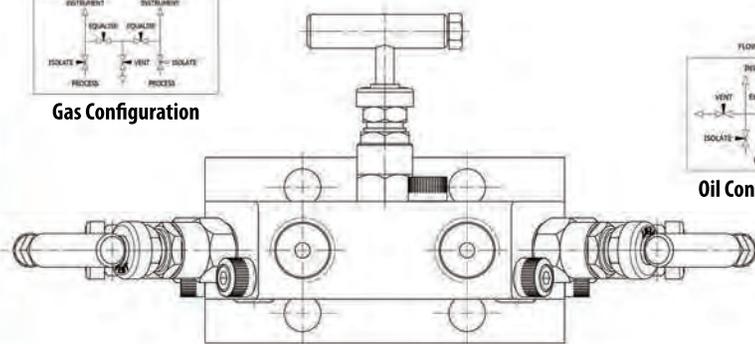
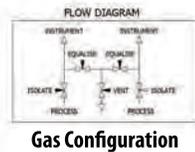
The 5VD offers two isolation valves, two vent valves and one equalising valve (see attached drawing). Incorporating all the standard long service life features of the standard 'N' series needle valve, multi-ring piston style packing, back sealing facility.

Mounting holes supplied as standard for wall or bracket mounting. All valves have 2 piece non-rotating hardened tips as standard, for bubble tight shut off and long service life. Positive no slack stem action. Unique bonnet locking cam for extra safety and for ease of maintenance

The 5VD series offers 54mm (2 1/8") instrument centres and is supplied with bolt pack and PTFE seals as standard.

## Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 6,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials
<b>Fire Safe Design</b>  Option is Available	<ul style="list-style-type: none"> <li>Two valve configurations (oil and gas)</li> <li>Metal to metal body bonnet seal for high pressure sealing</li> <li>Unique bonnet locking cam</li> </ul>



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Reference: AV\_RTG\_2015\_08\_NV\_5VD

# '5VBD' Series Needle Manifold Valve

## 5 Valve Needle Manifold Valves



Direct style block mounted 5 valve manifold, instrument mount to pipe connection. Offering two isolation valves, two vent valves and one equalising valve (see attached drawing).

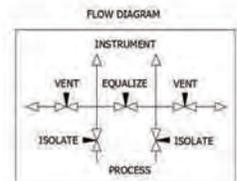
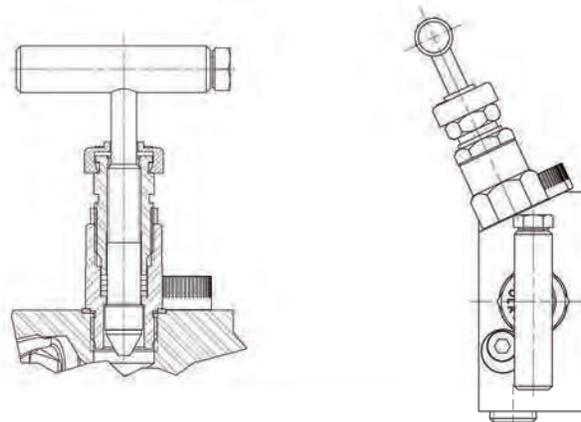
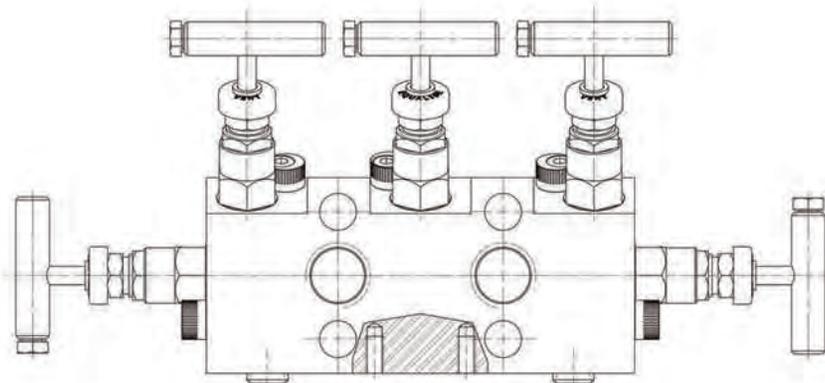
Used in differential pressure transmitters and static instrument applications. Standard 2 x 1/2" inlet x 2 x 1/2" outlet all on 54mm instrument centres with 2 x 1/4" vent port. Incorporating all the standard long service life features of the standard 'N' series needle valve, multi-ring piston style packing, back sealing facility.

Mounting holes supplied as standard for wall or bracket mounting. All valves have 2 piece non-rotating hardened tips as standard, for bubble tight shut off and long service life. Positive no slack stem action. Unique bonnet locking cam for extra safety and for ease of maintenance

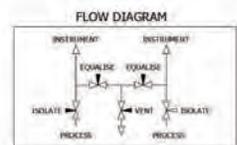
### Design Features:

<b>Temperature Range:</b>  -40°C to 230°C	<b>Pressure Rating:</b>  Up to 6,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials
<b>Fire Safe Design</b>  Option is Available	<ul style="list-style-type: none"> <li>Two valve configurations (oil and gas)</li> <li>Metal to metal body bonnet seal for high pressure sealing</li> <li>Unique bonnet locking cam</li> </ul>

The 5VBD series is supplied with bolt pack and PTFE seals as standard.



Oil Configuration



Gas Configuration

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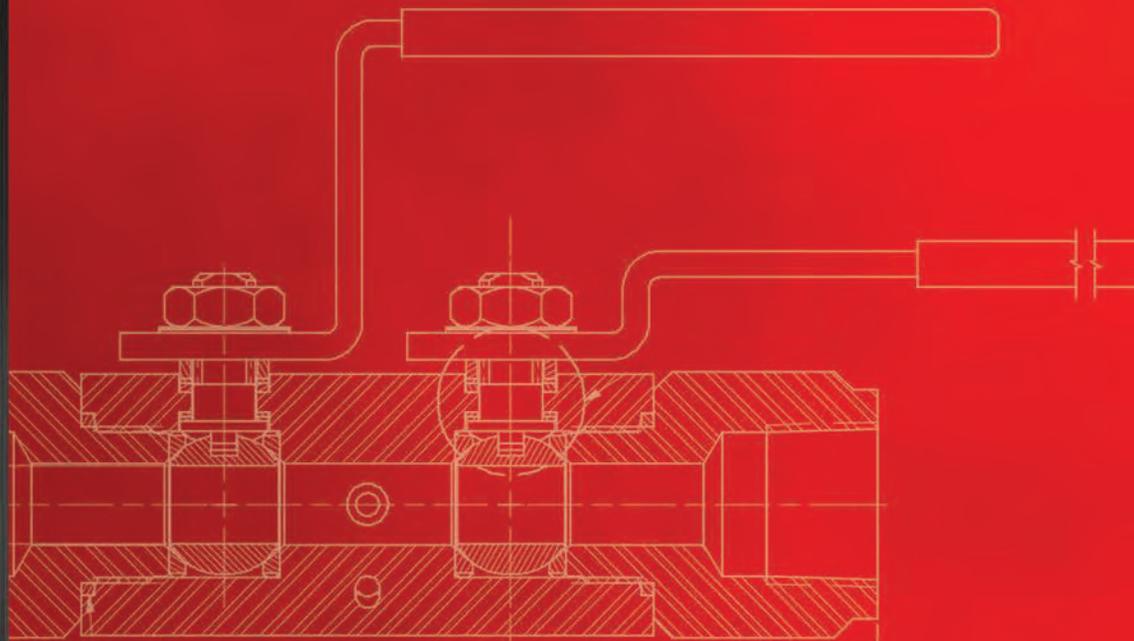
Page 8



Reference: AV\_RTG\_2015\_08\_NV\_5VBD

# DBB Valves

DBB 'B' Series  
DBB 'N' Series



SECTION A-A



# 'B' Series Double Block and Bleed Valve

## Double Block & Bleed Valves



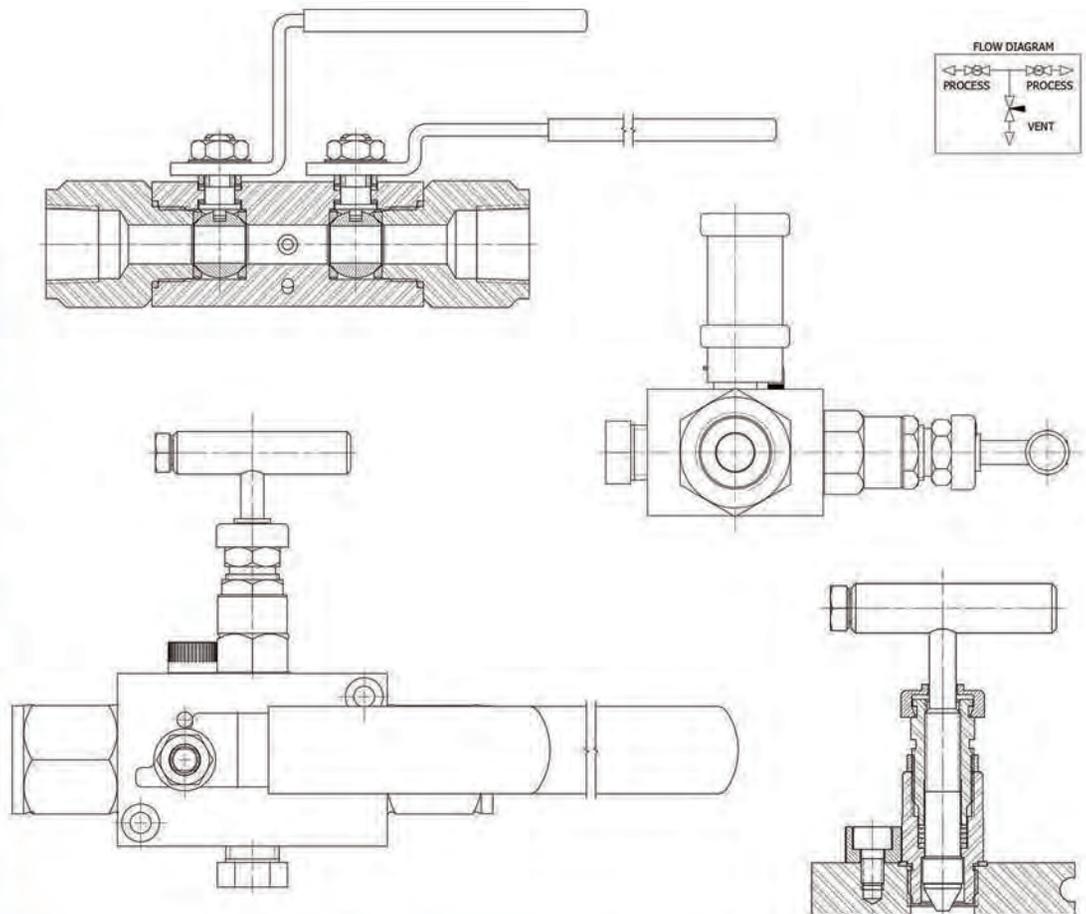
The Double Block & Bleed Manifold is fully approved to be supplied to many of the world's oil majors. The design provides an economical method for mounting gauges with facility to test and calibrate gauges and pressure switches.

The DBB 'B' series offers roddability due to its straight through flow passage. The vent valve incorporating the long service firesafe 'N' series needle valve, graphite multi-ring piston style packing and back sealing facility. The handle indicates a OPEN / CLOSED position at a glance.

This valve series is a bi-directional floating ball design to ensure leak-proof shut-off on pressure or vacuum. Mounting holes supplied as standard for wall or bracket mounting.

## Design Features:

<b>Temperature Range:</b>  -40°C to 150°C	<b>Pressure Rating:</b>  Up to 6,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials
<b>Fire Safe Design</b> 	<b>Choice of End Connectors</b> 
<b>Flexible 3 Piece Design</b> 	<ul style="list-style-type: none"> <li>• Metal to metal bonnet sealing for high temperature sealing</li> <li>• Anti-Blowout internally loaded stem for extra safety</li> </ul>



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Section 4

Page 1



Reference: AV\_RTG\_2015\_08\_DBB\_B

# 'N' Series Double Block and Bleed Valve

## Double Block & Bleed Valves

The Double Block & Bleed Manifold is fully approved to be supplied to many of the world's oil majors. The design provides an economical method for mounting gauges with facility to test and calibrate gauges and pressure switches.

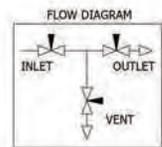
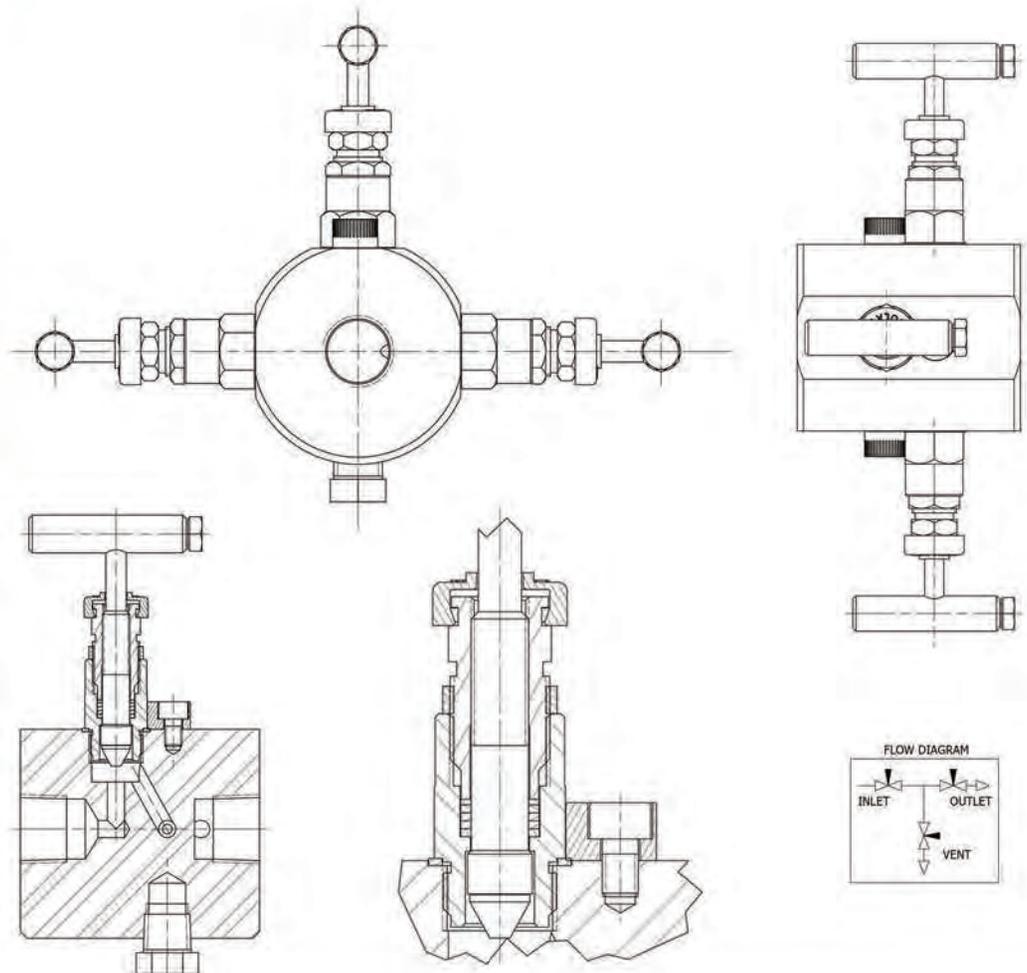
The DBB 'N' series is a slim-line and compact single piece 3 valve manifold. Both isolation and vent valves incorporate the long service firesafe 'N' series needle valve, graphite multi-ring piston style packing and back sealing facility.

Many options available including hand wheels and locking devices and all valves have 2-piece non-rotating hardened tips as standard for bubble tight shut-off and long service life.



### Design Features:

<b>Temperature Range:</b>  -40°C to 427°C	<b>Pressure Rating:</b>  Up to 6,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials
<b>Fire Safe Design</b> 	<b>Choice of End Connectors</b> 
<ul style="list-style-type: none"> <li>Positive no slack stem action</li> <li>Metal to metal body bonnet sealing for high temperature sealing</li> <li>Fine control of venting</li> </ul>	



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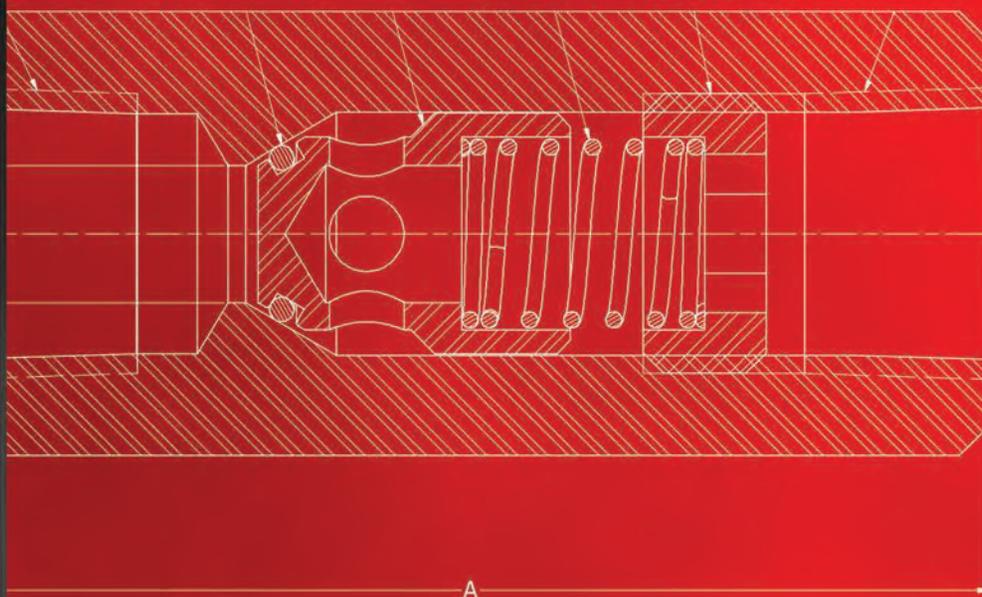
Page 2



Reference: AV\_RTG\_2015\_08\_DBB\_N

# Check Valves

'EC' Series  
'EUC' Series



SECTION A-A



# 'EC' Series Check Valve

## Check Valves

The Alco Valves Non Return Valve, designed for prevention of back flow in high pressure systems. The 'EC' series valve has a wide range of body and trim materials available, several types of sealing materials can be used to cope with most aggressive mediums.

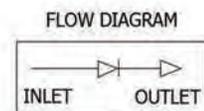
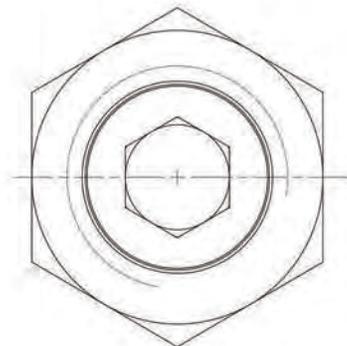
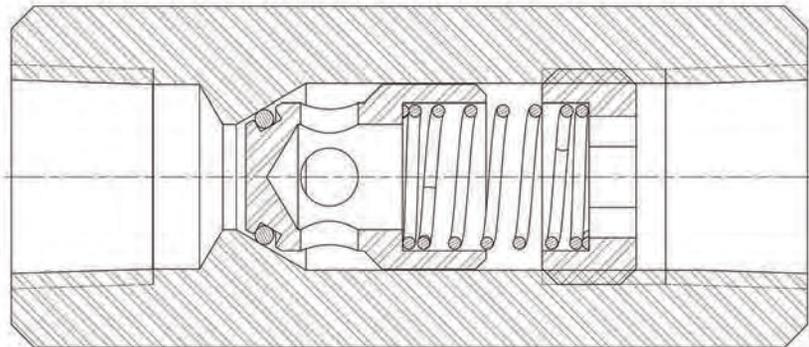
Having a soft primary seat means it is suitable for gases or liquids. Altogether a very compact unit, suitable for many arduous duties. Various cracking pressures to suit your application are available.

The 'EC' Series offers a primary soft seal for bubble tight close, with secondary metal-to-metal seal as standard.



## Design Features:

<b>Temperature Range:</b>  -40°C to 150°C	<b>Pressure Rating:</b>  Up to 10,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials
<ul style="list-style-type: none"> <li>Close tolerance guided spring and piston to prevent grabbing</li> <li>Most piston and spring material options are available to cope with aggressive mediums</li> </ul>	



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Reference: AV\_RTG\_2015\_08\_CV\_EC

# 'EUC' Series Check Valve

## Compression End Check Valves



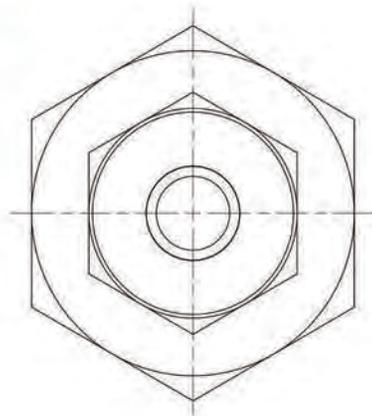
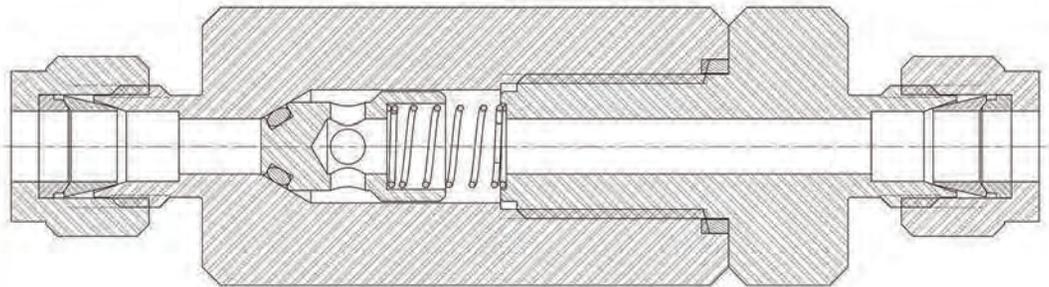
The Alco Valves Non Return Valve, designed for prevention of back flow in high pressure systems. The 'EUC' series valve has a wide range of body and trim materials available, several types of sealing materials can be used to cope with most aggressive mediums.

Having a soft primary seat means it is suitable for gases or liquids. Altogether a very compact unit, suitable for many arduous duties. Various cracking pressures to suit your application are available

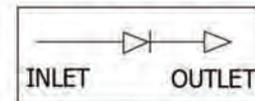
The 'EUC' Series offers a primary soft seal for bubble tight close, with secondary metal-to-metal seal as standard.

## Design Features:

<b>Temperature Range:</b>  -40°C to 150°C	<b>Pressure Rating:</b>  Up to 10,000 PSI
<b>Can Meet Requirements:</b>  NACE MR 0175	<b>Full Material Traceability</b> 
<b>Repair Kits Available</b> 	<b>Material Options:</b>  316ss / Duplex / Monel / And Other Exotic Materials
<ul style="list-style-type: none"> <li>Close tolerance guided spring and piston to prevent grabbing</li> <li>Most piston and spring material options are available to cope with aggressive mediums</li> </ul>	



FLOW DIAGRAM



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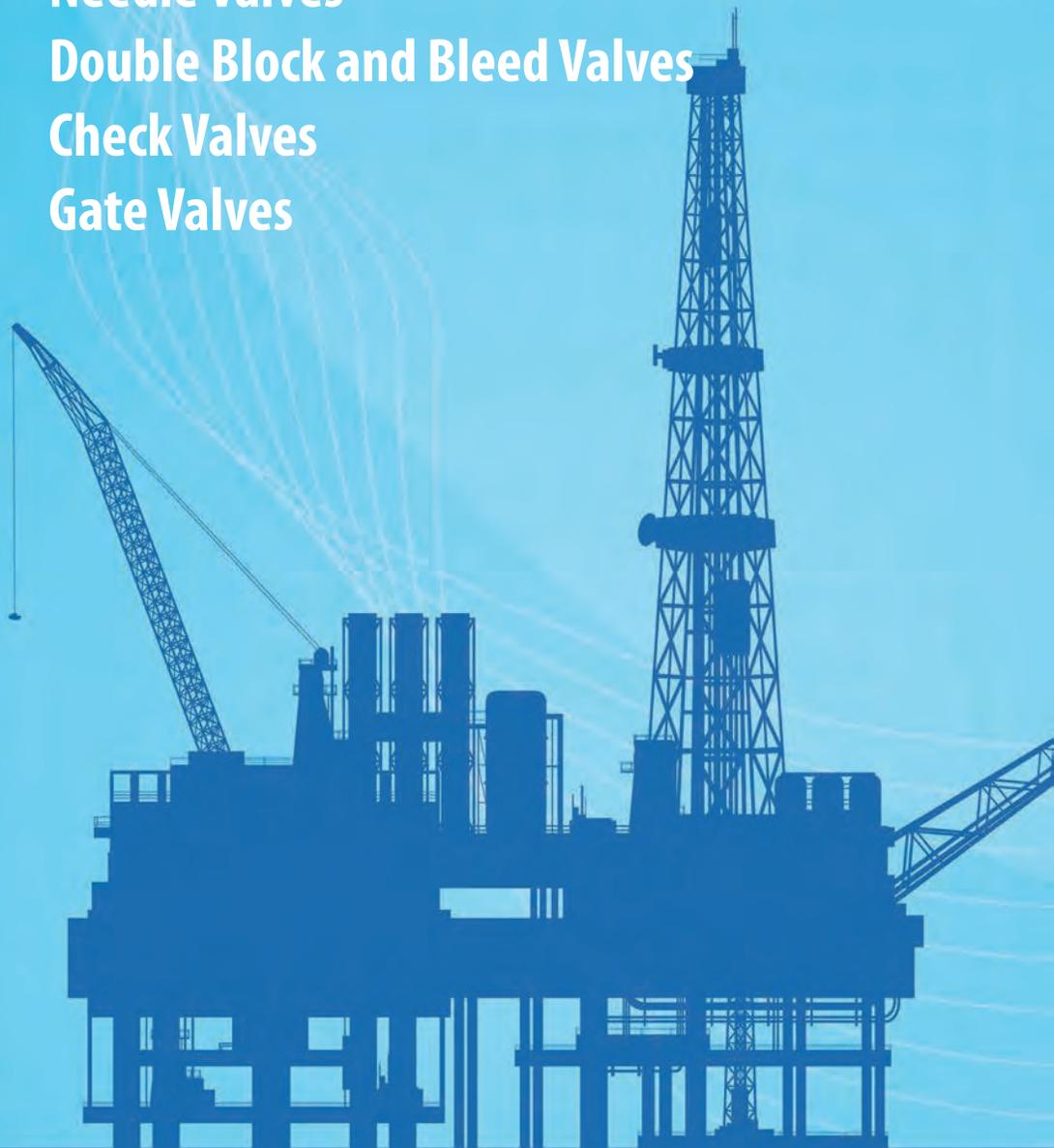


Reference: AV\_RTG\_2015\_08\_CV\_EUC



# Also Available from Alco Valves: Sub-Tek Range

Ball Valves  
Needle Valves  
Double Block and Bleed Valves  
Check Valves  
Gate Valves





## Ball Valves

Alco Sub-Tek's ball valves are available in bore sizes 6mm - 25mm for floating ball valves (pictured to the left) and 13mm - 150mm for trunnion mounted designs. These are suitable for diver, ROV and actuated operation, with pressure ratings up to 10,000psi, and has a triple stem seal design.

Designed to well recognised subsea standards such as API 6A and ASME, and PR2 performance verification testing to API 6A appendix F and 17D section 307

## Needle Valves

Alco Sub-Tek's needle valves are available in bore sizes 6mm - 19mm and the inlet and outlet connections can be designed to suit client's requirements. Pressure rated up to 10,000psi, hyperbaric tested up to 10,000ft, has a triple stem seal design and can be suitable for Diver, ROV and actuated operation.

Designed to well recognised subsea standards such as API 6A and ASME, and PR2 performance verification testing to API 6A appendix F and 17D section 307



## Double Block & Bleed Valves

Alco Sub-Tek's double block and bleed valves can be available in ball and needle combinations, also can be available in sizes 6mm - 150mm. These designs can also be available with a check valve within the valve. This range includes a triple stem seal design and can be suitable for Diver, ROV and actuated operation.

Designed to well recognised subsea standards such as API 6A and ASME, and PR2 performance verification testing to API 6A appendix F and 17D section 307. Pressure rating up to 10,00 psi and hyperbaric tested to 10,000 ft.



**Also Available from Alco Valves:**

# Hi-Tek Range

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**Double Block and Bleed Valves**

**Monoflange Valves**

**Injection Valves**

**Pipeline Valves**





## DBB Valves:

Alco Hi-Tek manufacture a range of DBB's to suit different number of environments, with different configurations, including: Flanged by Screw (pictured to the left). Other configurations available are, Flanged, Screwed, Hubbed and Threaded. Also, Alco's patented Twin Blok DBB design, three valves in the space of one, is "Simply the best DBB on the market" - not our words. Valve connections range from 1/4" to 12", depending on the design, and pressure ratings range up to 10,000psi.

## Monoflange Valves:

The type DBB is a compact and lightweight double block and bleed valve system. All isolation valves are designed for high pressure instrument and process applications. Dual outlet connections are available to allow for the instrument to be mounted vertically or horizontally depending on the pipe orientation.

The MF offers the lowest possible number of potential leakage points from a process connection, through 3 valves to a static instrument such as a pressure gauge. This involves only one joint - the pipeline flange to the valve body.



## Pipeline Valves:

ANSI B16.10 standard pipeline ball valves. Two piece design minimising potential leak paths. Available in all our standard grade materials ASTM A350 LF2 / A105 dual certified, ASTM A182 F316 / F316L, ASTM A182 F51. Other materials of construction are available including super alloys i.e. Hastalloy C276, Monel and Inconel 625 / 825.

Available in standard floating ball or trunnion mounted ball designs for higher pressure ratings up to 10,000 psi. Tight shut off using soft primary seating followed by metal to metal secondary sealing as standard for extra safety in fire conditions.



**Alco Valves Group**



eeef The manufacturers' organisation



UVDB empowered by Achilles



FPAL empowered by Achilles

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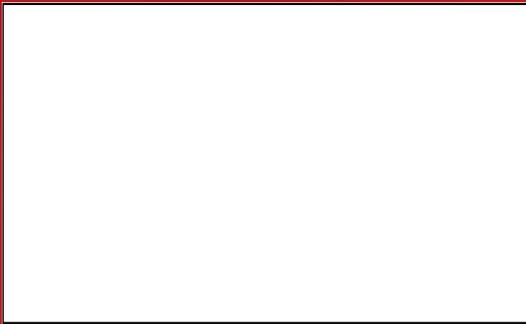
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