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INDUSTRIES  
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PUNT VALVES

## NEEDLE VALVE

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## Needle Valve-AN (Square Body)

Standard AN Series 6000 psi & 10000 psi

Arya's standard series Needle valves are designed for stringent application in Oil & Gas, Chemical, Petrochemical etc. industries. These can be used for throttling and straight isolation in process or flow control applications.

These metal seated valves are machined from square bar stock and are available in sizes 1/8" to 2" in various connections. 10000 psi valves are rated upto 1" pipe size.

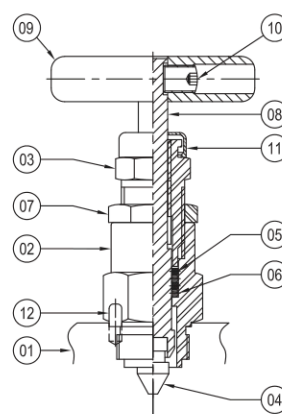
### Features:

- Valves design provides in-line pipe connections for 1/8" to 2" pipe sizes.
- Rising stem & bar stock body design.
- Metal-to-Metal seating achieves bubble-tight shut-off, longer stem/seal life in abrasive flow, greater durability for repeated on/off cycles and excellent corrosion resistance.
- Stem sleeve and packing gland materials have been carefully chosen to achieve extended thread cycle life and reduced handle torque.
- Available in 316 Stainless Steel, Monel, Duplex & other exotic material.
- Complete material traceability.
- Also available with material compliance to NACE MR-01-75.
- BSPP, BSPT, ISO, Socket & Butt Weld etc. connections available on request.
- Spindle is thread rolled and burnished for smooth operation and long life.
- Non-rotating hardened (17-4PH) are standard for long service life.
- Temperature range 100°C to 230°C (400°C with GF option)
- All valves are 100% factory tested with Nitrogen at 70 Bar or Hydro tested at 1.5 times of working pressure.
- Dust and thread caps are provided as standard.
- Threads : N= NPT, G= BSPP, R= BSPT, other option on request.

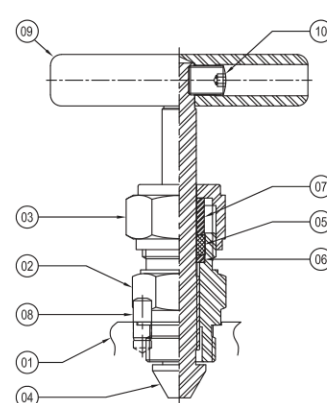


| Double Bonnet Assembly |             |          |      | Single Bonnet Assembly |             |          |      |
|------------------------|-------------|----------|------|------------------------|-------------|----------|------|
| No.                    | Description | Material | Qty. | No.                    | Description | Material | Qty. |
| 1.                     | Body        | SS 316   | 1    | 1.                     | Body        | SS 316   | 1    |
| 2.                     | Bonnet      | SS 316   | 1    | 2.                     | Bonnet      | SS 316   | 1    |
| 3.                     | Adj. Bonnet | SS 316   | 1    | 3.                     | Gland Nut   | SS 316   | 1    |
| 4.                     | Spindle Tip | 17-4 PH  | 1    | 4.                     | Spindle Tip | 17.4 PH  | 1    |
| 5.                     | Packing     | Teflon   | 2    | 5.                     | Packing     | Teflon   | 2    |
| 6.                     | "O" Ring    | Viton*   | 2    | 6.                     | Steel Ring  | SS 316   | 1    |
| 7.                     | Check Nut   | SS 316   | 1    | 7.                     | Steel Bush  | SS 316   | 1    |
| 8.                     | Spindle     | SS 316   | 1    | 8.                     | Stopper Pin | SS       | 1    |
| 9.                     | Handle      | SS       | 1    | 9.                     | Handle      | SS       | 1    |
| 10.                    | Grub Screw  | CS       | 1    | 10.                    | Grub Screw  | CS       | 1    |
| 11.                    | Dust Cap    | Nylon    | 1    |                        |             |          |      |
| 12.                    | Stopper Pin | SS       | 1    |                        |             |          |      |

\*For 10,000 psi. Teflon and SS ring

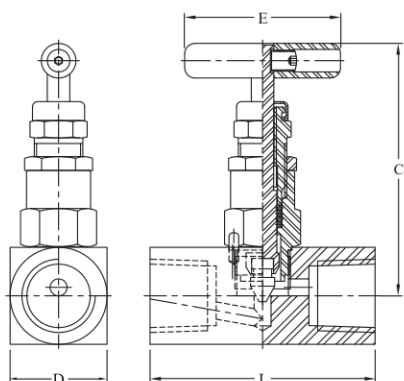


Double Bonnet Assembly  
(upto 1/2" size)



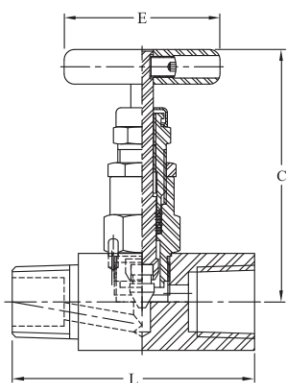
Single Bonnet Assembly  
(3/4" and above sizes)

Standard AN Series 6000 psi & 10000 psi



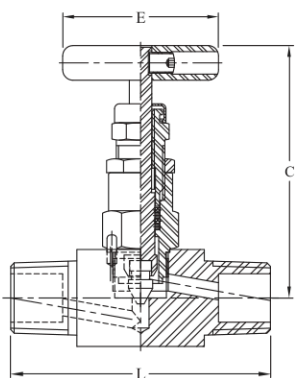
## AN Series - Female x Female

| Part No. | Connection |          | L  | D<br>(sq.) | C<br>(max.open) | E  | Orifice | Cv   |
|----------|------------|----------|----|------------|-----------------|----|---------|------|
|          | Inlet-F    | Outlet-F |    |            |                 |    |         |      |
| AN 2N 1  | 1/8"       | 1/8"     | 50 | 22         | 65              | 45 | 3       | 0.24 |
| AN 4N 1  | 1/4"       | 1/4"     | 50 | 22         | 70              | 45 | 4       | 0.35 |
| AN 6N 1  | 3/8"       | 3/8"     | 55 | 25         | 75              | 45 | 4       | 0.35 |
| AN 8N 1  | 1/2"       | 1/2"     | 65 | 28         | 85              | 55 | 4.9     | 0.65 |



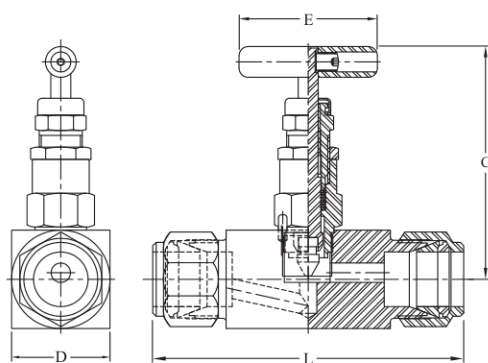
## AN Series - Male x Female

| Part No. | Connection |          | L  | D<br>(sq.) | C<br>(max.open) | E  | Orifice | Cv   |
|----------|------------|----------|----|------------|-----------------|----|---------|------|
|          | Inlet-M    | Outlet-F |    |            |                 |    |         |      |
| AN 2N 2  | 1/8"       | 1/8"     | 55 | 22         | 65              | 45 | 3       | 0.24 |
| AN 4N 2  | 1/4"       | 1/4"     | 55 | 22         | 70              | 45 | 4       | 0.35 |
| AN 6N 2  | 3/8"       | 3/8"     | 60 | 25         | 75              | 45 | 4       | 0.35 |
| AN 8N 2  | 1/2"       | 1/2"     | 70 | 28         | 85              | 55 | 4.9     | 0.65 |



## AN Series - Male x Male

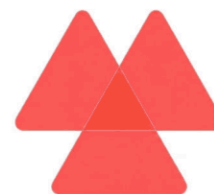
| Part No. | Connection |          | L  | D<br>(sq.) | C<br>(max.open) | E  | Orifice | Cv   |
|----------|------------|----------|----|------------|-----------------|----|---------|------|
|          | Inlet-M    | Outlet-M |    |            |                 |    |         |      |
| AN 2N 3  | 1/8"       | 1/8"     | 55 | 22         | 65              | 45 | 3       | 0.24 |
| AN 4N 3  | 1/4"       | 1/4"     | 55 | 22         | 70              | 45 | 4       | 0.35 |
| AN 6N 3  | 3/8"       | 3/8"     | 60 | 25         | 75              | 45 | 4       | 0.35 |
| AN 8N 3  | 1/2"       | 1/2"     | 65 | 28 (25)    | 85              | 55 | 4.9     | 0.65 |



## AN Series - Tube OD x Tube OD

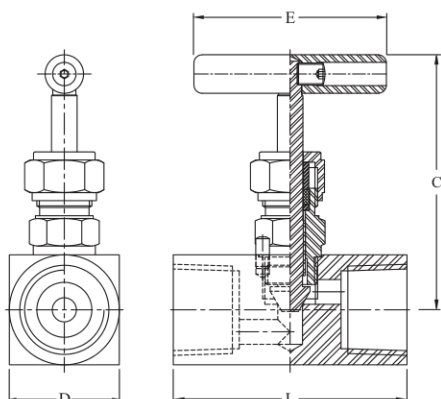
| Part No. | Conn. Tube OD |        | L  | D<br>(sq.) | C<br>(max.open) | E  | Orifice | Cv   |
|----------|---------------|--------|----|------------|-----------------|----|---------|------|
|          | Inlet         | Outlet |    |            |                 |    |         |      |
| AN 4I 4  | 1/4"          | 1/4"   | 60 | 22         | 70              | 45 | 3       | 0.24 |
| AN 6I 4  | 3/8"          | 3/8"   | 60 | 22         | 72              | 45 | 4       | 0.35 |
| AN 8I 4  | 1/2"          | 1/2"   | 65 | 22         | 74              | 55 | 4.9     | 0.65 |
| AN 12I 4 | 3/4"          | 3/4"   | 70 | 28         | 79              | 55 | 6.5     | 0.86 |
| AN 16I 4 | 1"            | 1"     | 75 | 36         | 95              | 65 | 9.0     | 1.78 |

Note : 1) For 10,000 psi, Suffix 10K to Model no. eg.: AN 2N1-10K  
 2) For BSPP connection use G instead of N. eg. AN 2G 1.  
 3) For temperature rating of 400 °C, Grafoil packing add - GF to Part no.  
 4) All dimensions are in Millimeter and for reference only.



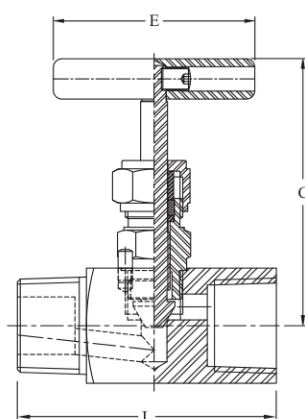
## Needle Valve-AN (Square Body)

Standard AN Series 6000 psi



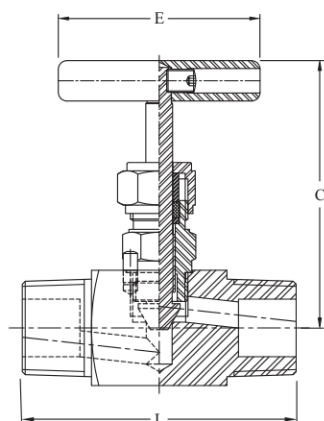
### AN Series - Female x Female

| Part No. | Connection |          | L   | D<br>(sq.) | C<br>(max.open) | E  | Orifice | Cv   |
|----------|------------|----------|-----|------------|-----------------|----|---------|------|
|          | Inlet-F    | Outlet-F |     |            |                 |    |         |      |
| AN 12N 1 | 3/4"       | 3/4"     | 75  | 36         | 96              | 65 | 6.5     | 0.86 |
| AN 16N 1 | 1"         | 1"       | 85  | 40         | 100             | 65 | 9       | 1.78 |
| AN 20N 1 | 1-1/4"     | 1-1/4"   | 90  | 50.8       | 120             | 75 | 11.9    | 2.4  |
| AN 24N 1 | 1-1/2"     | 1-1/2"   | 110 | 57         | 130             | 75 | 11.9    | 2.4  |
| AN 32N 1 | 2"         | 2"       | 110 | 70         | 150             | 85 | 14      | 3.1  |



### AN Series - Male x Female

| Part No. | Connection |          | L   | D<br>(sq.) | C<br>(max.open) | E  | Orifice | Cv   |
|----------|------------|----------|-----|------------|-----------------|----|---------|------|
|          | Inlet-M    | Outlet-F |     |            |                 |    |         |      |
| AN 12N 2 | 3/4"       | 3/4"     | 80  | 36         | 95              | 65 | 6.5     | 0.86 |
| AN 16N 2 | 1"         | 1"       | 90  | 40         | 100             | 65 | 9       | 1.78 |
| AN 20N 2 | 1-1/4"     | 1-1/4"   | 95  | 50.8       | 120             | 75 | 11.9    | 2.4  |
| AN 24N 2 | 1-1/2"     | 1-1/2"   | 115 | 57         | 130             | 75 | 11.9    | 2.4  |
| AN 32N 2 | 2"         | 2"       | 120 | 70         | 150             | 85 | 14      | 3.1  |



### AN Series - Male x Male

| Part No. | Connection |          | L   | D<br>(sq.) | C<br>(max.open) | E  | Orifice | Cv   |
|----------|------------|----------|-----|------------|-----------------|----|---------|------|
|          | Inlet-M    | Outlet-M |     |            |                 |    |         |      |
| AN 12N 3 | 3/4"       | 3/4"     | 75  | 30         | 95              | 65 | 6.5     | 0.86 |
| AN 16N 3 | 1"         | 1"       | 85  | 36         | 100             | 65 | 9       | 1.78 |
| AN 20N 3 | 1-1/4"     | 1-1/4"   | 90  | 45         | 120             | 75 | 11.9    | 2.4  |
| AN 24N 3 | 1-1/2"     | 1-1/2"   | 110 | 51         | 130             | 75 | 11.9    | 2.4  |
| AN 32N 3 | 2"         | 2"       | 120 | 63         | 150             | 85 | 14      | 3.1  |

- Note : 1) For 10,000 psi, Suffix 10K to Model no. eg.: AN 2N1-10K  
2) For BSPP connection use G instead of N. eg. AN 2G 1.  
3) For temperature rating of 400 °C, Grafoil packing add - G to Part no.  
4) All dimensions are in Millimeter and for reference only.

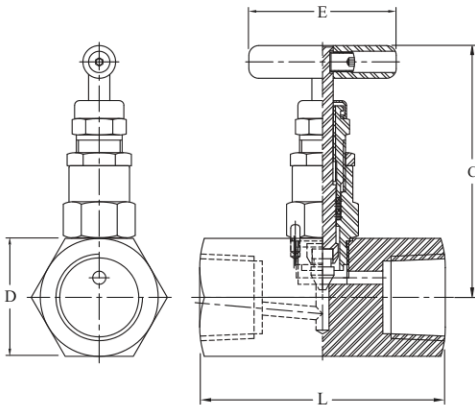


# Needle Valve-AH (Hex Body)

Standard AH Series 6000 psi & 10000 psi

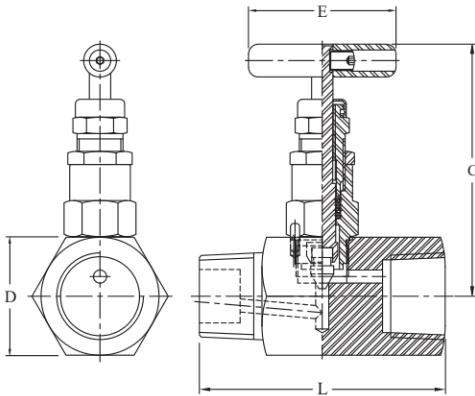


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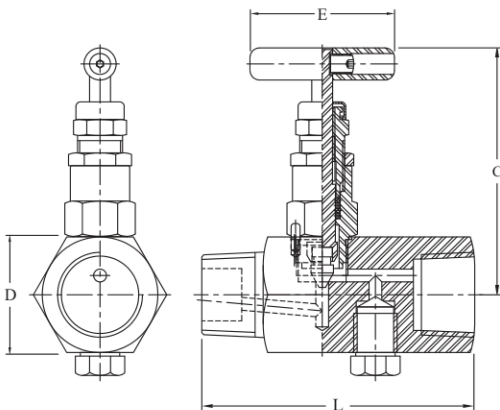
## AH Series - Female x Female

| Part No. | Connection |          | L  | D<br>(hex) | C<br>(max. open) | E  | Orifice | Cv   |
|----------|------------|----------|----|------------|------------------|----|---------|------|
|          | Inlet-F    | Outlet-F |    |            |                  |    |         |      |
| AH 4N 1  | 1/4"       | 1/4"     | 50 | 32         | 92               | 45 | 4       | 0.35 |
| AH 6N 1  | 3/8"       | 3/8"     | 55 | 32         | 92               | 45 | 4       | 0.35 |
| AH 8N 1  | 1/2"       | 1/2"     | 65 | 32         | 98               | 55 | 4.9     | 0.65 |
| AH 12N 1 | 3/4"       | 3/4"     | 75 | 36         | 114              | 65 | 6.5     | 0.86 |



## AH Series - Male x Female

| Part No. | Connection |          | L  | D<br>(hex) | C<br>(max. open) | E  | Orifice | Cv   |
|----------|------------|----------|----|------------|------------------|----|---------|------|
|          | Inlet-M    | Outlet-F |    |            |                  |    |         |      |
| AH 4N 2  | 1/4"       | 1/4"     | 55 | 32         | 92               | 45 | 4       | 0.35 |
| AH 6N 2  | 3/8"       | 3/8"     | 60 | 32         | 92               | 45 | 4       | 0.35 |
| AH 8N 2  | 1/2"       | 1/2"     | 70 | 32         | 98               | 55 | 4.9     | 0.65 |
| AH 12N 2 | 3/4"       | 3/4"     | 70 | 36         | 114              | 65 | 6.5     | 0.86 |



## AH Series - Male x Female

| Part No.  | Connection |          | L  | D<br>(hex) | C<br>(max. open) | E  | Orifice | Cv   |
|-----------|------------|----------|----|------------|------------------|----|---------|------|
|           | Inlet-M    | Outlet-F |    |            |                  |    |         |      |
| AH 4N 2V  | 1/4"       | 1/4"     | 65 | 32         | 92               | 45 | 4       | 0.35 |
| AH 6N 2V  | 3/8"       | 3/8"     | 70 | 32         | 92               | 45 | 4       | 0.35 |
| AH 8N 2V  | 1/2"       | 1/2"     | 85 | 32         | 98               | 55 | 4.9     | 0.65 |
| AH 12N 2V | 3/4"       | 3/4"     | 85 | 36         | 114              | 65 | 6.5     | 0.86 |

- Note : 1) For BSPP connection use G instead of N. eg. AN 2G 2.  
 2) For temperature rating of 400 °C, Grafoil packing add - G to Part no.  
 3) All dimensions are in Millimeter and for reference only.



## Needle Valve-AA (Angle Valve)

## Instrumentation Valves & Accessories

Standard AA Series 6000 psi & 10000 psi

Arya's standard series Needle valves are designed for stringent application in Oil & Gas, Chemical, Petrochemical etc. industries. These can be used for throttling and straight isolation in process or flow control applications.

These metal seated valves are machined from square bar stock and are available in sizes 1/8" to 2" in various connections. 10000 psi valves are rated upto 1" pipe size.

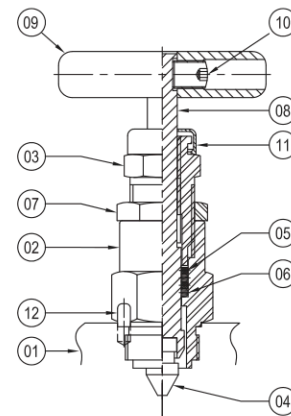
### Features:

- Valves design provides in-line pipe connections for 1/8" to 2" pipe sizes.
- Rising stem & bar stock body design.
- Metal-to-Metal seating achieves bubble-tight shut-off, longer stem/seal life in abrasive flow, greater durability for repeated on/off cycles and excellent corrosion resistance.
- Stem sleeve and packing gland materials have been carefully chosen to achieve extended thread cycle life and reduced handle torque.
- Available in 316 Stainless Steel, Monel, Duplex & other exotic material.
- Complete material traceability.
- Also available with material compliance to NACE MR-01-75.
- BSPP, BSPT, ISO, Socket & Butt Weld etc. connections available on request.
- Spindle is thread rolled and burnished for smooth operation and long life.
- Non-rotating hardened (17-4PH) are standard for long service life.
- Temperature range 100°C to 230°C (400°C with GF option)
- All valves are 100% factory tested with Nitrogen at 70 Bar or Hydro tested at 1.5 times of working pressure.
- Dust and thread caps are provided as standard.
- Threads : N= NPT, G= BSPP, R= BSPT, other option on request.

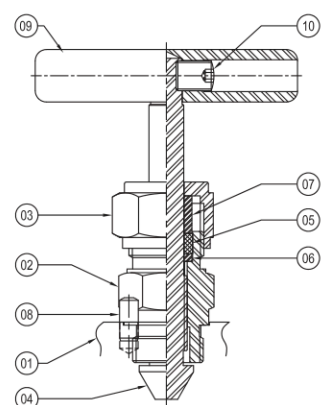


| Double Bonnet Assembly |             |          |      | Single Bonnet Assembly |             |          |      |
|------------------------|-------------|----------|------|------------------------|-------------|----------|------|
| No.                    | Description | Material | Qty. | No.                    | Description | Material | Qty. |
| 1.                     | Body        | SS 316   | 1    | 1.                     | Body        | SS 316   | 1    |
| 2.                     | Bonnet      | SS 316   | 1    | 2.                     | Bonnet      | SS 316   | 1    |
| 3.                     | Adj. Bonnet | SS 316   | 1    | 3.                     | Gland Nut   | SS 316   | 1    |
| 4.                     | Spindle Tip | 17-4 PH  | 1    | 4.                     | Spindle Tip | 17-4 PH  | 1    |
| 5.                     | Packing     | Teflon   | 2    | 5.                     | Packing     | Teflon   | 2    |
| 6.                     | "O" Ring    | Viton*   | 2    | 6.                     | Steel Ring  | SS 316   | 1    |
| 7.                     | Check Nut   | SS 316   | 1    | 7.                     | Steel Bush  | SS 316   | 1    |
| 8.                     | Spindle     | SS 316   | 1    | 8.                     | Stopper Pin | SS       | 1    |
| 9.                     | Handle      | SS       | 1    | 9.                     | Handle      | SS       | 1    |
| 10.                    | Grub Screw  | CS       | 1    | 10.                    | Grub Screw  | CS       | 1    |
| 11.                    | Dust Cap    | Nylon    | 1    |                        |             |          |      |
| 12.                    | Stopper Pin | SS       | 1    |                        |             |          |      |

\* For 10,000 psi. Teflon and SS ring



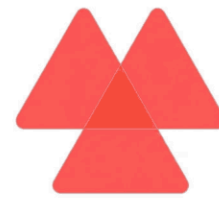
Double Bonnet Assembly  
(upto 3/4" size)



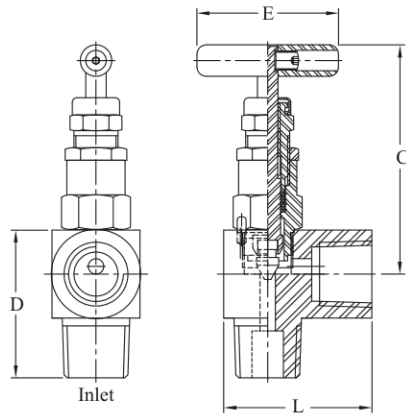
Single Bonnet Assembly  
(1" and above sizes)

# Needle Valve-AA (Angle Valve)

Standard AA Series 6000 psi & 10000 psi

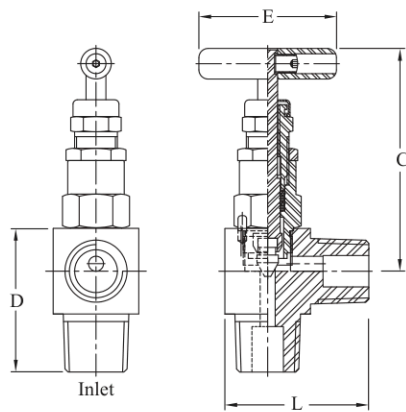


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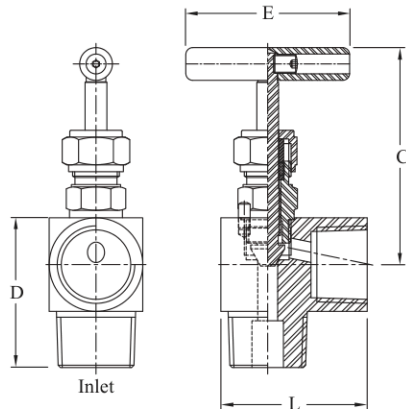
## AA Series - Male x Female

| Part No. | Connection |          | L  | D  | C<br>(max.open) | E  | Orifice | Cv   |
|----------|------------|----------|----|----|-----------------|----|---------|------|
|          | Inlet-M    | Outlet-F |    |    |                 |    |         |      |
| AA 2N 2  | 1/8"       | 1/8"     | 26 | 26 | 70              | 45 | 3       | 0.24 |
| AA 4N 2  | 1/4"       | 1/4"     | 32 | 32 | 75              | 45 | 4       | 0.35 |
| AA 6N 2  | 3/8"       | 3/8"     | 36 | 36 | 80              | 45 | 4       | 0.35 |
| AA 8N 2  | 1/2"       | 1/2"     | 42 | 42 | 90              | 55 | 4.9     | 0.65 |
| AA 12N 2 | 3/4"       | 3/4"     | 50 | 50 | 100             | 65 | 6.5     | 0.86 |



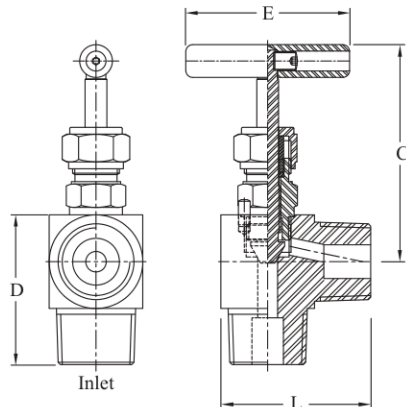
## AA Series - Male x Male

| Part No. | Connection |          | L  | D  | C<br>(max.open) | E  | Orifice | Cv   |
|----------|------------|----------|----|----|-----------------|----|---------|------|
|          | Inlet-M    | Outlet-M |    |    |                 |    |         |      |
| AA 2N 3  | 1/8"       | 1/8"     | 26 | 26 | 70              | 45 | 3       | 0.24 |
| AA 4N 3  | 1/4"       | 1/4"     | 32 | 32 | 75              | 45 | 4       | 0.35 |
| AA 6N 3  | 3/8"       | 3/8"     | 36 | 36 | 80              | 45 | 4       | 0.35 |
| AA 8N 3  | 1/2"       | 1/2"     | 42 | 42 | 90              | 55 | 4.9     | 0.65 |
| AA 12N 3 | 3/4"       | 3/4"     | 50 | 50 | 100             | 65 | 6.5     | 0.86 |



## AA Series - Male x Female

| Part No. | Connection |          | L  | D  | C<br>(max.open) | E  | Orifice | Cv   |
|----------|------------|----------|----|----|-----------------|----|---------|------|
|          | Inlet-M    | Outlet-F |    |    |                 |    |         |      |
| AA 16N 2 | 1"         | 1"       | 56 | 56 | 105             | 65 | 9       | 1.78 |
| AA 20N 2 | 1 1/4"     | 1 1/4"   | 62 | 62 | 125             | 75 | 11.9    | 2.4  |
| AA 24N 2 | 1 1/2"     | 1 1/2"   | 72 | 72 | 135             | 75 | 11.9    | 2.4  |
| AA 32N 2 | 2"         | 2"       | 82 | 82 | 135             | 85 | 14      | 3.1  |



## AA Series - Male x Male

| Part No. | Connection |          | L  | D  | C<br>(max.open) | E  | Orifice | Cv   |
|----------|------------|----------|----|----|-----------------|----|---------|------|
|          | Inlet-M    | Outlet-M |    |    |                 |    |         |      |
| AA 16N 3 | 1"         | 1"       | 56 | 56 | 105             | 65 | 9       | 1.78 |
| AA 20N 3 | 1 1/4"     | 1 1/4"   | 62 | 62 | 125             | 75 | 11.9    | 2.4  |
| AA 24N 3 | 1 1/2"     | 1 1/2"   | 72 | 72 | 135             | 75 | 11.9    | 2.4  |
| AA 32N 3 | 2"         | 2"       | 82 | 82 | 135             | 85 | 14      | 3.1  |

Note : 1) For 10,000 psi, Suffix 10K to Model no. eg.: AN 2N1-10K

2) For BSPP connection use G instead of N. eg. AN 2G 1.

3) For temperature rating of 400 °C, Grafoil packing add - GF to Part no.

4) All dimensions are in Millimeter and for reference only.



### Standard AGM Series 6000 psi & 10000 psi

Arya's standard series Needle valves are designed for stringent application in Oil & Gas, Chemical, Petrochemical etc. industries. These can be used for throttling and straight isolation in process or flow control applications.

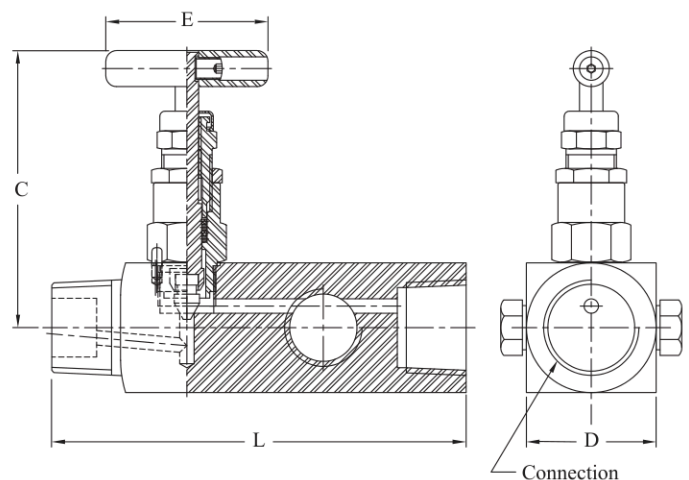
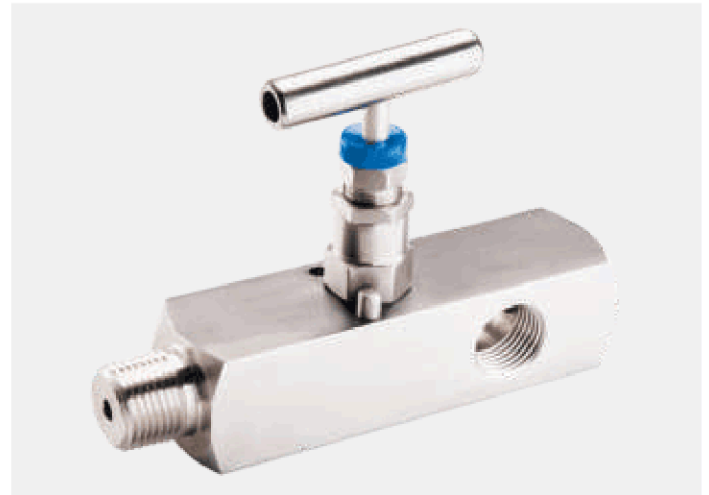
These metal seated valves are machined from square bar stock and are available in sizes 1/4" to 3/4" in various connections. 10000 psi valves are rated upto 1" pipe size.

#### Features:

- Valves design provides in-line pipe connections for 1/4" to 3/4" pipe sizes.
- Rising stem & bar stock body design.
- Metal-to-Metal seating achieves bubble-tight shut-off, longer stem/seal life in abrasive flow, greater durability for repeated on/off cycles and excellent corrosion resistance.
- Stem sleeve and packing gland materials have been carefully chosen to achieve extended thread cycle life and reduced handle torque.
- Available in 316 Stainless Steel, Monel, Duplex & other exotic material.
- Complete material traceability.
- Also available with material compliance to NACE MR-01-75.
- BSPP, BSPT, ISO, Socket & Butt Weld etc. connections available on request.
- Spindle is thread rolled and burnished for smooth operation and long life.
- Non-rotating hardened (17-4PH) are standard for long service life.
- Temperature range 100°C to 230°C (400°C with GF option)
- All valves are 100% factory tested with Nitrogen at 70 Bar or Hydro tested at 1.5 times of working pressure.
- Dust and thread caps are provided as standard.
- Threads : N= NPT, G= BSPP, R= BSPT, other option on request.

| No. | Description      | Material | Qty. | No. | Description | Material | Qty. |
|-----|------------------|----------|------|-----|-------------|----------|------|
| 1.  | Body             | SS 316   | 1    | 7   | "O" Ring    | Viton*   | 2    |
| 2.  | Spindle Tip      | 17-4 PH  | 1    | 8.  | Packing     | Teflon   | 2    |
| 3.  | Bonnet           | SS 316   | 1    | 9   | Stopper Pin | SS       | 1    |
| 4.  | Adjusting Bonnet | SS 316   | 1    | 10. | Handle      | SS       | 1    |
| 5.  | Check Nut        | SS 316   | 1    | 11. | Dust Cap    | Nylon    | 1    |
| 6.  | Spindle          | SS 316   | 1    | 12. | Grub Screw  | CS       | 1    |

\* For 10,000 psi. Teflon and SS ring

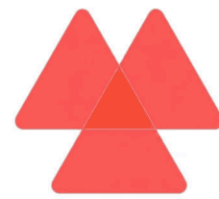


| Part No.   | Connection |          | L   | D<br>(sq.) | C<br>(max. open) | E  | Orifice | Cv   |
|------------|------------|----------|-----|------------|------------------|----|---------|------|
|            | Inlet-M    | Outlet-F |     |            |                  |    |         |      |
| AGM 4N 2   | 1/4"       | 1/4"     | 90  | 22         | 70               | 45 | 4       | 0.35 |
| AGM 8N 2   | 1/2"       | 1/2"     | 115 | 30         | 85               | 55 | 4.9     | 0.65 |
| AGM 8NE 2  | 1/2"       | 1/2" Ext | 215 | 30         | 84               | 55 | 6.5     | 0.86 |
| AGM 12NE 2 | 3/4"       | 3/4" Ext | 215 | 38         | 84               | 55 | 6.5     | 0.86 |

- Note : 1) For 10,000 psi, Suffix 10K to Model no. eg.: AN 2N1-10K  
 2) For BSPP connection use G instead of N. eg. AN 2G 1.  
 3) For temperature rating of 400 °C, Grafoil packing add - GF to Part no.  
 4) All dimensions are in Millimeter and for reference only.

# Needle Valve-AGB (Block & Bleed)

Standard AGB Series 6000 psi & 10000 psi



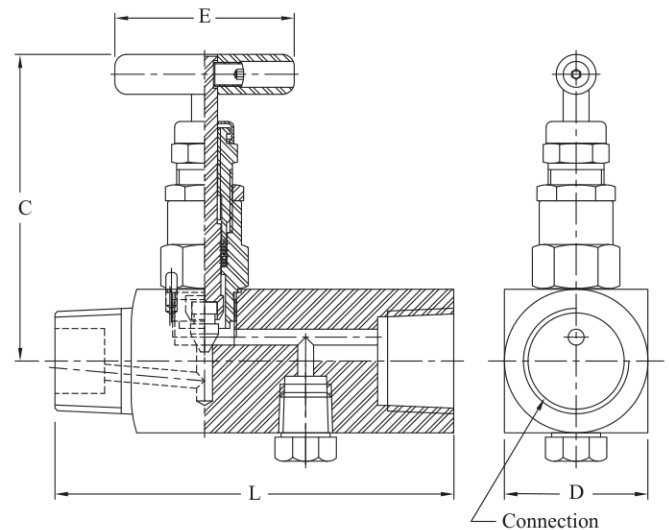
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+  
PUNT VALVES**

Arya's standard series Needle valves are designed for stringent application in Oil & Gas, Chemical, Petrochemical etc. industries. These can be used for throttling and straight isolation in process or flow control applications.

These metal seated valves are machined from square bar stock and are available in sizes 1/4" to 3/4" in various connections.

## Features:

- Valves design provides in-line pipe connections for 1/4" to 1/2" pipe sizes.
- Rising stem & bar stock body design.
- Metal-to-Metal seating achieves bubble-tight shut-off, longer stem/seal life in abrasive flow, greater durability for repeated on/off cycles and excellent corrosion resistance.
- Stem sleeve and packing gland materials have been carefully chosen to achieve extended thread cycle life and reduced handle torque.
- Available in 316 Stainless Steel, Monel, Duplex & other exotic material.
- Complete material traceability.
- Also available with material compliance to NACE MR-01-75.
- BSPP, BSPT, ISO, Socket & Butt Weld etc. connections available on request.
- Spindle is thread rolled and burnished for smooth operation and long life.
- Non-rotating hardened (17-4PH) are standard for long service life.
- Temperature range 100°C to 230°C (400°C with GF option)
- All valves are 100% factory tested with Nitrogen at 70 Bar or Hydro tested at 1.5 times of working pressure.
- Dust and thread caps are provided as standard.
- Threads : N= NPT, G= BSPP, R= BSPT, other option on request.



| No. | Description      | Material | Qty. | No. | Description | Material | Qty. |
|-----|------------------|----------|------|-----|-------------|----------|------|
| 1.  | Body             | SS 316   | 1    | 7   | "O" Ring    | Viton*   | 2    |
| 2.  | Spindle Tip      | 17-4 PH  | 1    | 8.  | Packing     | Teflon   | 2    |
| 3.  | Bonnet           | SS 316   | 1    | 9   | Stopper Pin | SS       | 1    |
| 4.  | Adjusting Bonnet | SS 316   | 1    | 10. | Handle      | SS       | 1    |
| 5.  | Check Nut        | SS 316   | 1    | 11. | Dust Cap    | Nylon    | 1    |
| 6.  | Spindle          | SS 316   | 1    | 12. | Grub Screw  | CS       | 1    |

\* For 10,000 psi. Teflon and SS ring

| Part No. | Connection |          | L  | D<br>(sq.) | C<br>(max. open) | E  | Orifice | Cv   |
|----------|------------|----------|----|------------|------------------|----|---------|------|
|          | Inlet-M    | Outlet-F |    |            |                  |    |         |      |
| AGB 4N 2 | 1/4"       | 1/4"     | 70 | 25         | 62               | 45 | 4       | 0.35 |
| AGB 6N 2 | 3/8"       | 3/8"     | 70 | 25         | 62               | 45 | 4       | 0.35 |
| AGB 8N 2 | 1/2"       | 1/2"     | 75 | 30         | 84               | 55 | 4.9     | 0.65 |

- Note : 1) For 10,000 psi, Suffix 10K to Model no. eg.: AN 2N1-10K  
 2) For BSPP connection use G instead of N. eg. AN 2G 1.  
 3) For temperature rating of 400 °C, Grafoil packing add - GF to Part no.  
 4) All dimensions are in Millimeter and for reference only.

## AM - Mini Series 6000 psi

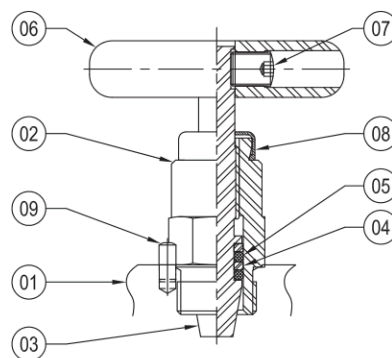
Arya's mini series Needle valves are designed for economical and long service life. These can be used for throttling and straight isolation in process and flow control application. These valves are available in 1/4", 3/8" and 1/2" threaded connections, as per requirements of chemical, petrochemical, oil & gas Industries.



### Features:

- Valves design provides in-line pipe connections for 1/4" to 1/2" pipe sizes.
- Rising stem & bar stock body design.
- Metal-to-metal seating achieves bubble-tight shut-off, longer stem/seal life in abrasive flow, greater durability for repeated on/off cycles and excellent corrosion resistance.
- Stem sleeve and packing gland materials have been carefully chosen to achieve extended thread cycle life and reduced handle torque.
- Operating temperature range from 0°F (-17°C) to 100°F @ 6000 psi.
- Available in 316 Stainless Steel, Monel, Duplex & other exotic material.
- Complete material traceability.
- Also available with material compliance to NACE MR-01-75.
- BSPP, BSPT, ISO, Socket & Butt Weld etc. connections available on request.
- Spindle is thread rolled and burnished for smooth operation and long life.
- All valves are 100% factory tested with Nitrogen at 70 Bar or Hydro tested at 1.5 times of working pressure.
- Dust and thread caps are provided as standard.
- Threads : N= NPT, G= BSPP, R= BSPT, other option on request.

| Double Bonnet Assembly |             |          |      |
|------------------------|-------------|----------|------|
| No.                    | Description | Material | Qty. |
| 1.                     | Body        | SS 316   | 1    |
| 2.                     | Bonnet      | SS 316   | 1    |
| 3.                     | Spindle Tip | SS 316   | 1    |
| 4.                     | Packing     | Teflon   | 2    |
| 5.                     | "O" Ring    | Viton*   | 2    |
| 6.                     | Handle      | SS       | 1    |
| 7.                     | Grub Screw  | CS       | 1    |
| 8.                     | Dust Cap    | Nylon    | 1    |
| 9.                     | Stopper Pin | SS       | 1    |



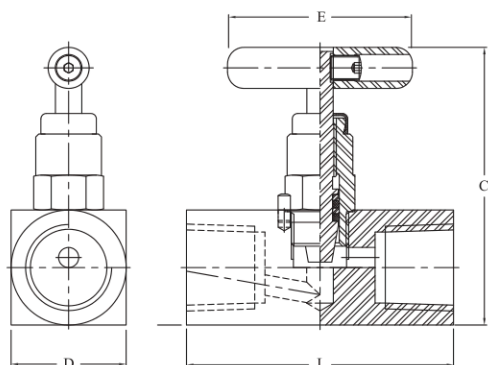
Bonnet Assembly

# Mini Needle Valve-AM

AM Series - 6000 psi

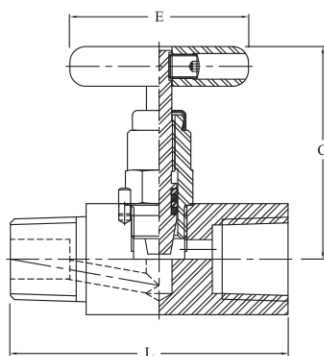


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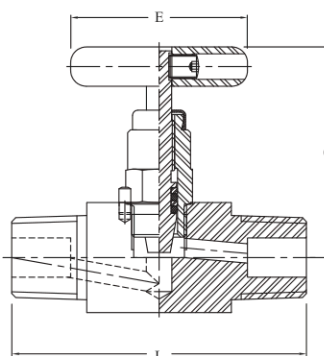
## AM Series - Female x Female

| Part No. | Connection |          | L  | D<br>(sq.) | C<br>(max.open) | E  | Orifice | Cv   |
|----------|------------|----------|----|------------|-----------------|----|---------|------|
|          | Inlet-F    | Outlet-F |    |            |                 |    |         |      |
| AM 4N 1  | 1/4"       | 1/4"     | 50 | 22         | 64              | 45 | 4       | 0.35 |
| AM 6N 1  | 3/8"       | 3/8"     | 55 | 25         | 66              | 45 | 4       | 0.35 |
| AM 8N 1  | 1/2"       | 1/2"     | 60 | 28         | 72              | 55 | 4.9     | 0.65 |



## AM Series - Male x Female

| Part No. | Connection |          | L  | D<br>(sq.) | C<br>(max.open) | E  | Orifice | Cv   |
|----------|------------|----------|----|------------|-----------------|----|---------|------|
|          | Inlet-M    | Outlet-F |    |            |                 |    |         |      |
| AM 4N 2  | 1/4"       | 1/4"     | 55 | 22         | 64              | 45 | 4       | 0.35 |
| AM 6N 2  | 3/8"       | 3/8"     | 60 | 25         | 67              | 45 | 4       | 0.35 |
| AM 8N 2  | 1/2"       | 1/2"     | 65 | 28         | 72              | 55 | 4.9     | 0.65 |



## AM Series - Male x Male

| Part No. | Connection |          | L  | D<br>(sq.) | C<br>(max.open) | E  | Orifice | Cv   |
|----------|------------|----------|----|------------|-----------------|----|---------|------|
|          | Inlet-M    | Outlet-M |    |            |                 |    |         |      |
| AM 4N 3  | 1/4"       | 1/4"     | 60 | 22         | 64              | 45 | 4       | 0.35 |
| AM 6N 3  | 3/8"       | 3/8"     | 65 | 25         | 67              | 45 | 4       | 0.35 |
| AM 8N 3  | 1/2"       | 1/2"     | 70 | 28         | 72              | 55 | 4.9     | 0.65 |

Note : 1) For BSPP connection use G instead of N. eg. AN 2G 2.  
 2) For temperature rating of 400 °C, Grafoil packing add - G to Part no.  
 3) All dimensions are in Millimeter and for reference only.

# Needle Valve-AS

## Instrumentation Valves & Accessories

### AS - Soft Seat Series 6000 psi

Arya's 'S' series Needle valves are designed for stringent application in Oil & Gas, Chemical, Petrochemical etc. industries.

For application where optimum flow, bi-directional capability or fully roddable design is required, the soft seat gives maximum repeatability, and replacement of seat, if needed, is possible. Standard design has Delrin™ seat and PTFE stem packing. Other seats PEEK™ & KLE-FTM also available on request.

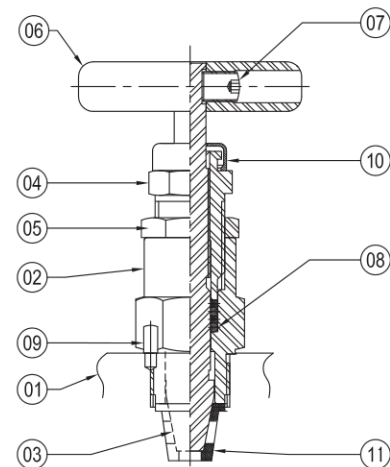
These soft seated valves are machined from hexagonal bar stock and are available in sizes 1/4" to 1" in various connections.



#### Features:

- Valves design provides in-line pipe connections for 1/4" to 1" pipe sizes.
- Rising stem & bar stock body design.
- Stem sleeve and packing gland materials have been carefully chosen to achieve extended thread cycle life and reduced handle torque.
- Available in 316 Stainless Steel, Monel, Duplex & other exotic material.
- Complete material traceability.
- Also available with material compliance to NACE MR-01-75.
- BSPP, BSPT, ISO, Socket & Butt Weld etc. connections available on request.
- Spindle is thread rolled and burnished for smooth operation and long life.
- Temperature range 100°F @ 6000 psi
- All valves are 100% factory tested with Nitrogen at 70 Bar or Hydro tested at 1.5 times of working pressure.
- Dust and thread caps are provided as standard.
- Threads : N= NPT, G= BSPP, R= BSPT, other option on request.

| Softon Bonnet Assembly |              |              |            |
|------------------------|--------------|--------------|------------|
| No.                    | Description  | SS 316 Valve | C.S. Valve |
| 1                      | Body         | S S316       | C.S.       |
| 2                      | Bonnet       | SS 316       | C.S.       |
| 3                      | Stem         | SS 316       | SS 304     |
| 4                      | Adjuster     | SS 316       | C.s.       |
| 5                      | Lock Nut     | SS 316       | C.S.       |
| 6                      | Handle       | SS 304       | C.S.       |
| 7                      | Fixing Screw | C.S.         | C.S.       |
| 8                      | Packing      | Teflon       | Teflon     |
| 9                      | Locking Pin  | SS 304       | S.S.       |
| 10                     | Dust Cap     | Nylon        | Nylon      |
| 11                     | Soft Seat    | Delrin       | Delrin     |

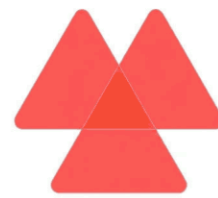


Bonnet Assembly

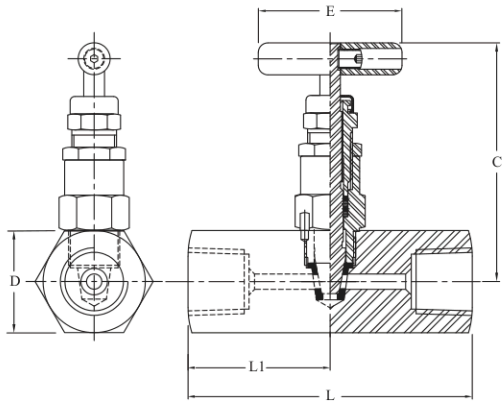


# Needle Valve-AS

AS - Soft Seat Series 6000 psi

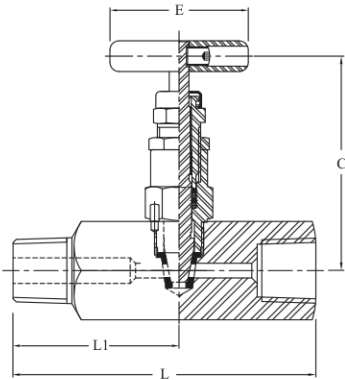


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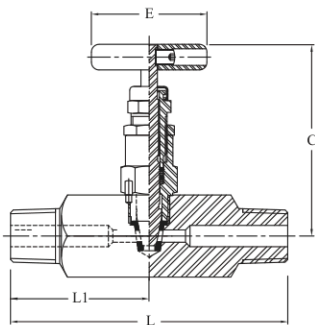
## AS Series - Female x Female

| Part No. | Conn.<br>NPT | L  | L1   | D<br>(sq.) | C<br>(max.open) | E  | Orifice | Cv   |
|----------|--------------|----|------|------------|-----------------|----|---------|------|
| AS4N 1   | 1/4"         | 65 | 32   | 32         | 94              | 55 | 5       | 0.76 |
| AS8N 1   | 1/2"         | 76 | 38   | 32         | 94              | 55 | 5       | 0.76 |
| AS12N 1  | 3/4"         | 76 | 38   | 35         | 96              | 55 | 6       | 0.86 |
| AS16N 1  | 1"           | 85 | 42.5 | 41         | 101             | 55 | 7       | 1.10 |



## AS Series - Male x Female

| Part No. | Conn.<br>NPT | L  | L1   | D<br>(sq.) | C<br>(max.open) | E  | Orifice | Cv   |
|----------|--------------|----|------|------------|-----------------|----|---------|------|
| AS4N 2   | 1/4"         | 76 | 38   | 32         | 94              | 55 | 5       | 0.76 |
| AS8N 2   | 1/2"         | 89 | 38   | 32         | 94              | 55 | 5       | 0.76 |
| AS12N 2  | 3/4"         | 89 | 38   | 35         | 96              | 55 | 6       | 0.86 |
| AS16N 2  | 1"           | 94 | 42.5 | 41         | 101             | 55 | 7       | 1.10 |



## AS Series - Male x Male

| Part No. | Conn.<br>NPT | L  | L1   | D<br>(sq.) | C<br>(max.open) | E  | Orifice | Cv   |
|----------|--------------|----|------|------------|-----------------|----|---------|------|
| AS4N 3   | 1/4"         | 76 | 38   | 32         | 94              | 55 | 5       | 0.76 |
| AS8N 3   | 1/2"         | 89 | 38   | 32         | 94              | 55 | 5       | 0.76 |
| AS12N 3  | 3/4"         | 89 | 38   | 35         | 96              | 55 | 6       | 0.86 |
| AS16N 3  | 1"           | 94 | 42.5 | 41         | 101             | 55 | 7       | 1.10 |

- Note : 1) For BSPP connection use G instead of N. eg. AN 2G 2.  
 2) For temperature rating of 400 °C, Grafoil packing add - G to Part no.  
 3) All dimensions are in Millimeter and for reference only.



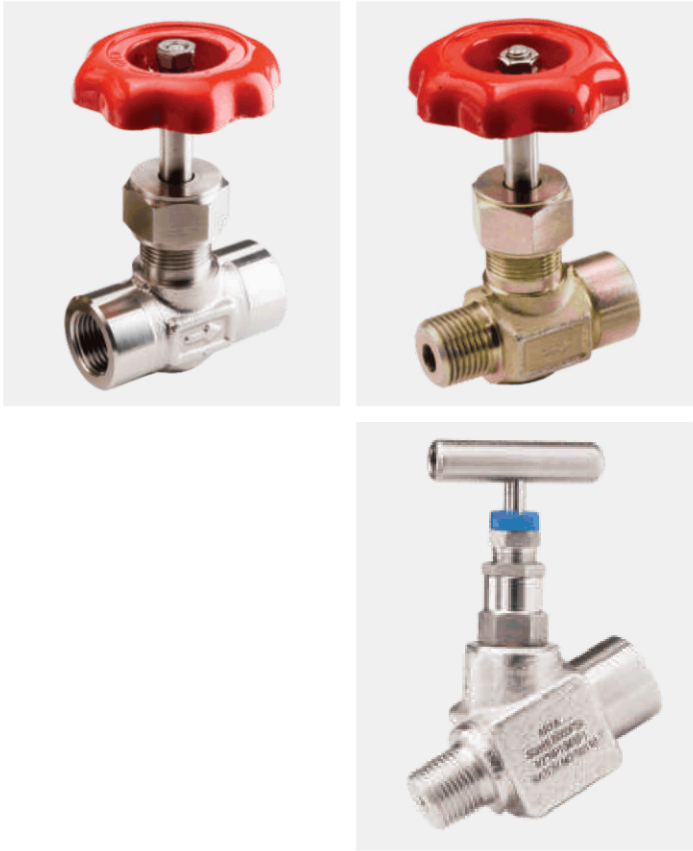
AI / AY - Forging body Series 6000 psi / 10000 psi

Arya's standard series Needle valves are designed for stringent application in Oil & Gas, Chemical, Petrochemical etc. industries. These can be used for throttling and straight isolation in process or flow control applications.

These metal seated valves are machined from forging and are available in sizes 1/4" to 1" in various connections.

Features:

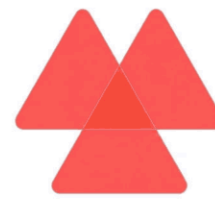
- Valves design provides in-line pipe connections for 1/4" to 1" pipe sizes.
- Rising stem & Forged body design.
- Metal-to-Metal seating achieves bubble-tight shut-off, longer stem/seal life in abrasive flow, greater durability for repeated on/off cycles and excellent corrosion resistance.
- Stem sleeve and packing gland materials have been carefully chosen to achieve extended thread cycle life and reduced handle torque.
- Available in 316 Stainless Steel, Monel, Duplex & other exotic material.
- Complete material traceability.
- Also available with material compliance to NACE MR-01-75.
- BSPP, BSPT, ISO, Socket & Butt Weld etc. connections available on request.
- Spindle is thread rolled and burnished for smooth operation and long life.
- Non-rotating hardened (17-4PH) are standard for long service life.
- Temperature range 100°C to 230°C (400°C with GF option)
- All valves are 100% factory tested with Nitrogen at 70 Bar or Hydro tested at 1.5 times of working pressure.
- Dust and thread caps are provided as standard.
- Threads : N= NPT, G= BSPP, R= BSPT, other option on request.



| Bonnet Assembly |               |              |            |
|-----------------|---------------|--------------|------------|
| No.             | Description   | SS 316 Valve | C.S. Valve |
| 1               | Body          | SS 316       | C.S.       |
| 2               | Spindle       | SS 316       | SS 304     |
| 3               | Gland Nut     | SS 316       | C.S.       |
| 4               | Packing       | Teflon       | Teflon     |
| 5               | Gland Packing | SS 316       | SS 304     |
| 6               | Ring          | SS 316       | SS         |
| 7               | Handle While  | Aluminium    | Aluminium  |
| 8               | Nut           | SS           | SS         |

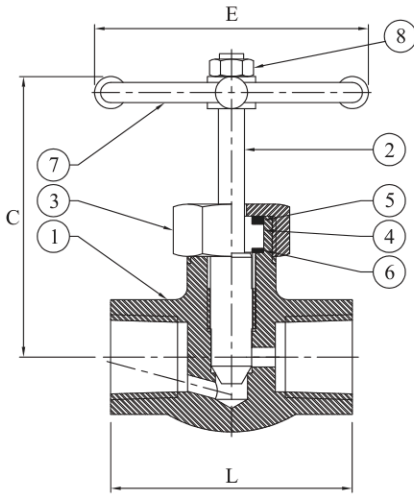
\* For 10,000 psi. Teflon and SS ring

# Integral Bonnet Needle Valve-AI / AY



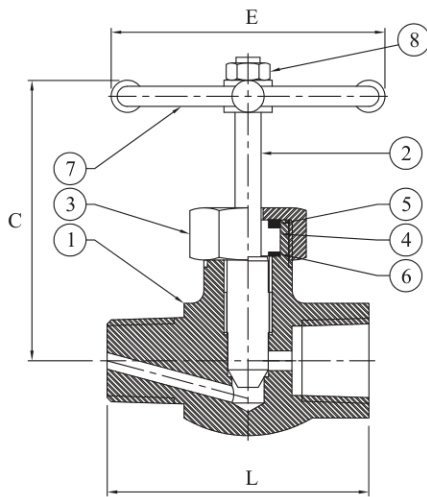
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AI / AY - Forging body Series 6000 psi / 10000 psi



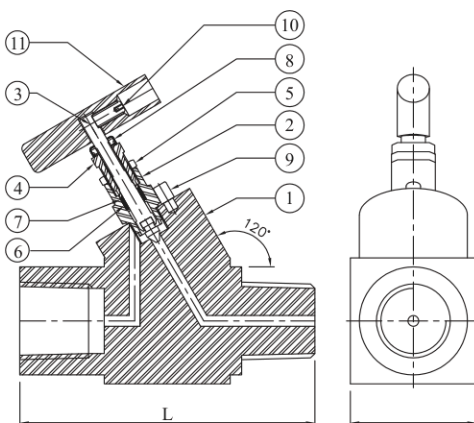
## AI Series - Female x Female

| Part No. | Connection |          | L  | C<br>(max.open) | E<br>(Round) | Orifice | Cv   |
|----------|------------|----------|----|-----------------|--------------|---------|------|
|          | Inlet-F    | Outlet-F |    |                 |              |         |      |
| AI 4N 1  | 1/4"       | 1/4"     | 52 | 88              | 60           | 4       | 0.35 |
| AI 6N 1  | 3/8"       | 3/8"     | 56 | 88              | 60           | 4       | 0.35 |
| AI 8N 1  | 1/2"       | 1/2"     | 65 | 98              | 80           | 4.9     | 0.65 |
| AI 12N 1 | 3/4"       | 3/4"     | 70 | 110             | 80           | 6.5     | 0.86 |
| AI 16N 1 | 1"         | 1"       | 85 | 134             | 90           | 9       | 1.78 |



## AI Series - Male x Female

| Part No. | Connection |          | L  | C<br>(max.open) | E<br>(Round) | Orifice | Cv   |
|----------|------------|----------|----|-----------------|--------------|---------|------|
|          | Inlet-M    | Outlet-F |    |                 |              |         |      |
| AI 4N 1  | 1/4"       | 1/4"     | 52 | 88              | 60           | 4       | 0.35 |
| AI 6N 1  | 3/8"       | 3/8"     | 56 | 88              | 60           | 4       | 0.35 |
| AI 8N 1  | 1/2"       | 1/2"     | 65 | 98              | 80           | 4.9     | 0.65 |
| AI 12N 1 | 3/4"       | 3/4"     | 70 | 110             | 80           | 6.5     | 0.86 |
| AI 16N 1 | 1"         | 1"       | 85 | 134             | 90           | 9       | 1.78 |



## AY Series - Male x Female

| Part No. | Connection |          | L  | C<br>(max.open) | E<br>(Round) | Orifice | Cv   |
|----------|------------|----------|----|-----------------|--------------|---------|------|
|          | Inlet-M    | Outlet-F |    |                 |              |         |      |
| AY 4N 1  | 1/4"       | 1/4"     | 52 | 88              | 60           | 4       | 0.35 |
| AY 6N 1  | 3/8"       | 3/8"     | 56 | 88              | 60           | 4       | 0.35 |
| AY 8N 1  | 1/2"       | 1/2"     | 65 | 98              | 80           | 4.9     | 0.65 |
| AY 12N 1 | 3/4"       | 3/4"     | 70 | 110             | 80           | 6.5     | 0.86 |
| AY 16N 1 | 1"         | 1"       | 85 | 134             | 90           | 9       | 1.78 |

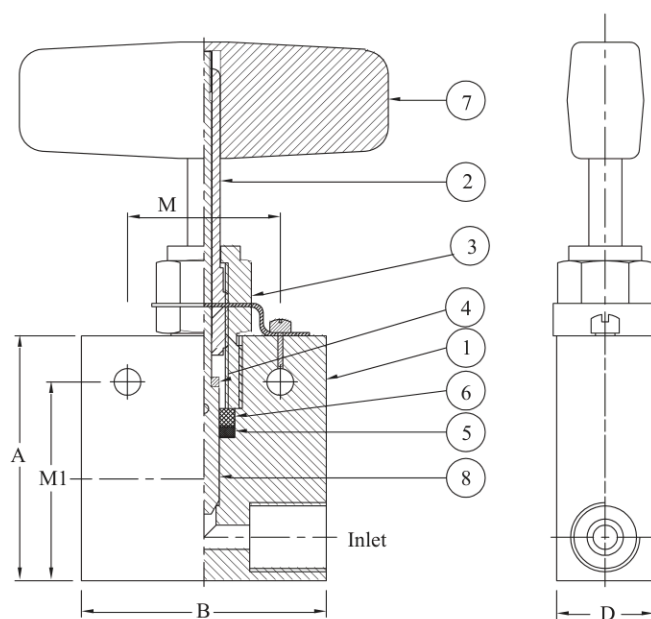
Note : 1) For 10,000 psi, Suffix 10K to Model no. eg.: AN 2N1-10K  
 2) For BSPP connection use G instead of N. eg. AN 2G 1.  
 3) For temperature rating of 400 °C, Grafoil packing add - GF to Part no.  
 4) All dimensions are in Millimeter and for reference only.

## 15,000 psi Series

Arya manufacture a line of NPT products to assure safe and easy plumbing through 15,000 psi. These needle valves are engineered to the highest standards of repeatable quality. The consistent performance of these products has made Arya one of the reliable suppliers of elevated pressure components. These valves are available in 1/4", 3/8" and 1/2" to satisfy widely varied requirements in chemical, petrochemical, research and oil & gas industries.

### FEATURES

- Valve design provides in-line pipe connections for 1/4" to 1/2" pipe sizes.
- Rising stem & bar stock body design.
- Non-rotating stem prevents stem/seat galling. These stems are standard for on-off service and insure long life on valve seats.
- Metal-to-metal seating achieves bubble-tight shut-off, longer stem/seat life in abrasive flow, greater durability for repeated on/off cycles and excellent corrosion resistance.
- PTFE (Teflon) encapsulated packing provides dependable stem and body sealing. Teflon (450 °F) standard with optional Viton (350 °F), BUNA-N (200 °F) and Grafoil (650° F) available.
- Materials include high tensile Type 316 stainless steel for valve bodies and hardened 17-4PH stainless steel for lower section stems. Stem sleeve and packing gland materials have been carefully chosen to achieve extended thread cycle life and reduced handle torque.
- Operating temperature range from 0° F (-17 °C) TO 400 °F (204 °C).



| No. | Description | Material         | Qty. |
|-----|-------------|------------------|------|
| 1.  | Body        | SS 316           | 1    |
| 2.  | Stem Holder | SS 316           | 1    |
| 3.  | Bonnet      | Aluminium Bronze | 1    |
| 4.  | Washer      | Aluminium        | 2    |
| 5.  | Packing     | Teflon           | 2    |
| 6.  | Packing     | Brass            | 1    |
| 7.  | Handle      | Aluminium        | 1    |
| 8.  | Stem        | 17-4 PH          | 1    |

| Part No.  | Inlet-F  | Outlet-F | A    | B  | D    | M    | M1   |
|-----------|----------|----------|------|----|------|------|------|
| 15VA4FNVN | 1/4" NPT | 1/4" NPT | 50   | 50 | 19   | 31.5 | 41.0 |
| 15VA6FNVN | 3/8" NPT | 3/8" NPT | 63.5 | 50 | 25.4 | 31.5 | 54.5 |
| 15VA8FNVN | 1/2" NPT | 1/2" NPT | 76   | 73 | 35   | 35.0 | 64.0 |

All dimension are in Millimeter and for reference only.

#### NOTE: NPT (Pipe) Connections :

- 1) NPT threads must be sealed using a high quality PTFE tape and/or paste Product.
- 2) Sealing performance may vary based on many factors such as pressure, temperature, media, thread quality, thread material, proper thread engagement and proper use of thread sealant.
- 3) Customer should limit the number of times an NPT fitting is assembled and disassembled because thread deformation during assembly will result in deteriorating seal quality over time. When using only PTFE tape, consider using thread lubrication to prevent galling of mating parts.

**Warning for Your Safety**

The system designer and user have the sole responsibility to select products suitable for their special application requirements to ensure the proper installation. Operation and maintenance of the product. Application details, material compatibility and product ratings should all be considered in the individual selection. Improper selection or use of products can cause property damage or personal injury. Arya accept no liability for any improper selection, installation, operation or maintenance.