Magwell Needle Valve Model MNV

A MAG-WELL Done . . .

Magwell needle valve is used to accurately control flow rates of clean gasses or liquids. Gradual adjustments of the stem and plunger enable smooth flow control. These valves generally have low flow rates and a relatively significant pressure drop from the inlet to the outlet.

Needle valves are usually used in flow-metering applications, especially when a constant, calibrated, low flow rate must be maintained for some time. It uses a bluntly conical needle, which seats against a square-edged seat. This is to obtain a well-defined seat between two narrow mating surfaces, giving firm shutoff of the flow from only a light float pressure. Needle valves are commonly used to provide shut off for the pressure gauge or on applicators to shut off the supply.

Magwell Needle Valves can withstand high pressures and temperatures. They are rated for pressures as high as 6000 PSI at 200°F or 4000 PSI at 500°F with PTFE Packing. For a Higher Temperatures Grafoil Packing is used.

Standard Features

- SS 316L Construction
- High Over Pressure for Safety
- Reinforced gland body protection
- Non-rotating provides bubble tight shut-off
- Material Traceability Reports available per EN 10204 3.1



Applications

- Liquid & Gaseous Medium
- Corrosive Environments
- Offshore Oil Rigs & Platforms
- Chemical & Petrochemical Plants
- Power & Utility
- Water & Waste Water Treatment Facilities
- Other Critical Process Industries

Specifications

- Pressure : 6,000 psi (414 Bar), 10,000 psi (690 Bar)
- Process Connection : 1/4”, 1/2” or 3/4” or Flanges to attach to instruments.
- Connections : NPT (ANSI / ASME B1.20.1), BSP or Cylindrical GAS (DIN 259 or ISO 228), Flanged.
- Materials : 316 / 316L Stainless Steel, Duplex, Super Duplex, Hastelloy, Monel, etc.
- Packing : GRAFOIL or PTFE. Upon request, it can be supplied in other materials.
- Closure : Metal-metal.
- Customize : If you need other connections, materials, packing or other modifications, we can tailor it to you.

Note : *Needle Valves provide low flow rates, many turns of the valve stem are required to completely open or close, needle valves are not used for simple shutoff applications.*

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Magwell Needle Valve Model MNV

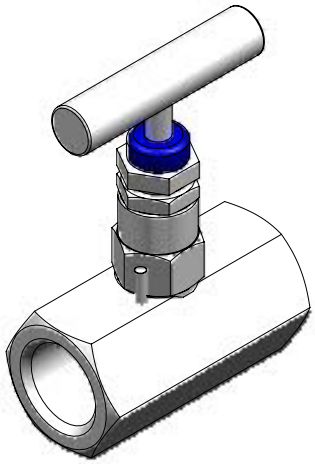
A MAG-WELL Done . . .

S. No	Description	Model
1	Needle Valve - Hex Body - Female to Female Type	MNV-HB-FF
2	Needle Valve - Hex Body - Male to Female Type	MNV-HB-MF
3	Needle Valve - Hex Body with Vent - Female to Female Type	MNV-HB-MFV
4	Needle Valve - Integral Bonnet Tube OD Type	MNV-IB-TO
5	Needle Valve - Mini Valve Type, Female - Female Connection	MNV-MV-FF
6	Needle Valve - Mini Valve Type, Male - Female Connection	MNV-MV-MF
7	Needle Valve - T Type Needle Valve, Male - Female Connection	MVM-YT
8	Needle Valve - Angled Body Type, Female - Female Connection	MNV-AT-FF
9	Needle Valve - Angled Body Type, Male - Female Connection	MNV-AT-MF
10	Needle Valve - Square Body Type, Female - Female Connection	MNV-SB-FF
11	Needle Valve - Square Body Type, Male - Female Connection	MNV-SB-MF
12	Needle Valve - Square Body Type with Vent, Male - Female Connection	MNV-SB-MFV
13	Needle Valve - Integral Bonnet Type, Male - Female Connection	MNV-IB-MF
14	Needle Valve - Integral Bonnet Type, Female - Female Connection	MNV-IB-FF

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- Hex Body Type, Female - Female Connection
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.



Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel

Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

Body : Normal Body Type

Inlet : FNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads

Spindle Tip - Non-Rotating tip shut-off type & soft Seated

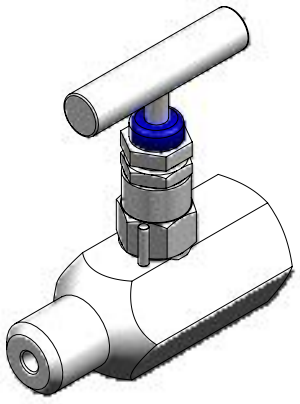
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- Hex Body Type, Male - Female Connection
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.

Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel



Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

Body : Normal Body Type

Inlet : MNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads

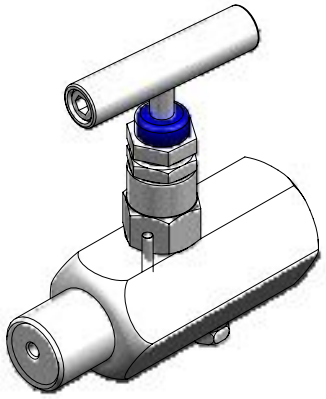
Spindle Tip - Non-Rotating tip shut-off type & soft Seated

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- Hex Body Type, with Vent, Male - Female Connection
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.

Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel



Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

Body : Normal Body Type

Inlet : MNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads

Spindle Tip - Non-Rotating tip shut-off type & soft Seated

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A MAG-WELL Done . . .

- Integral Bonnet Tube OD Type
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.

Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel

Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

Body : Normal Body Type

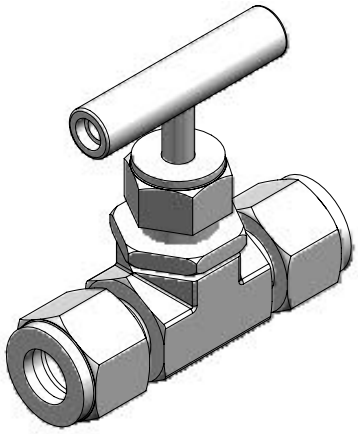
Inlet : MNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads

Spindle Tip - Non-Rotating tip shut-off type & soft Seated

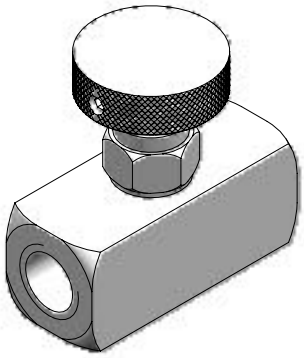


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- Mini Valve Type, Female - Female Connection
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.

Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel



Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

Body : Normal Body Type

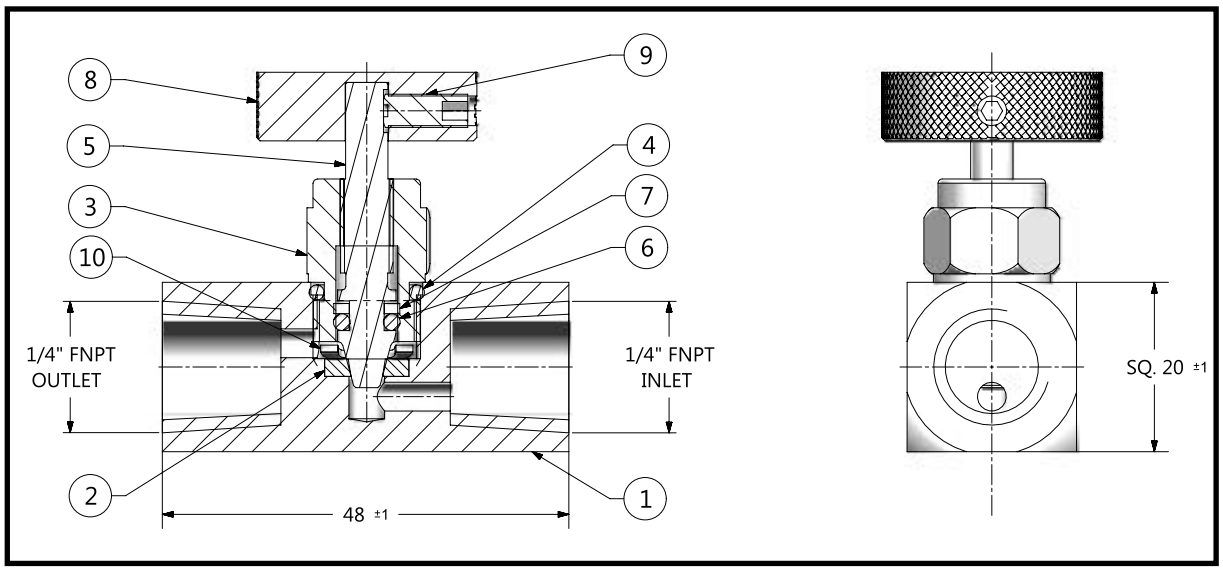
Inlet : MNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads

Spindle Tip - Non-Rotating tip shut-off type & soft Seated



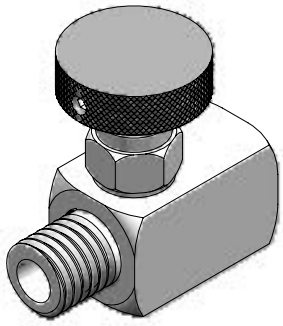
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- Mini Valve Type, Male - Female Connection
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.

Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel



Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

Body : Normal Body Type

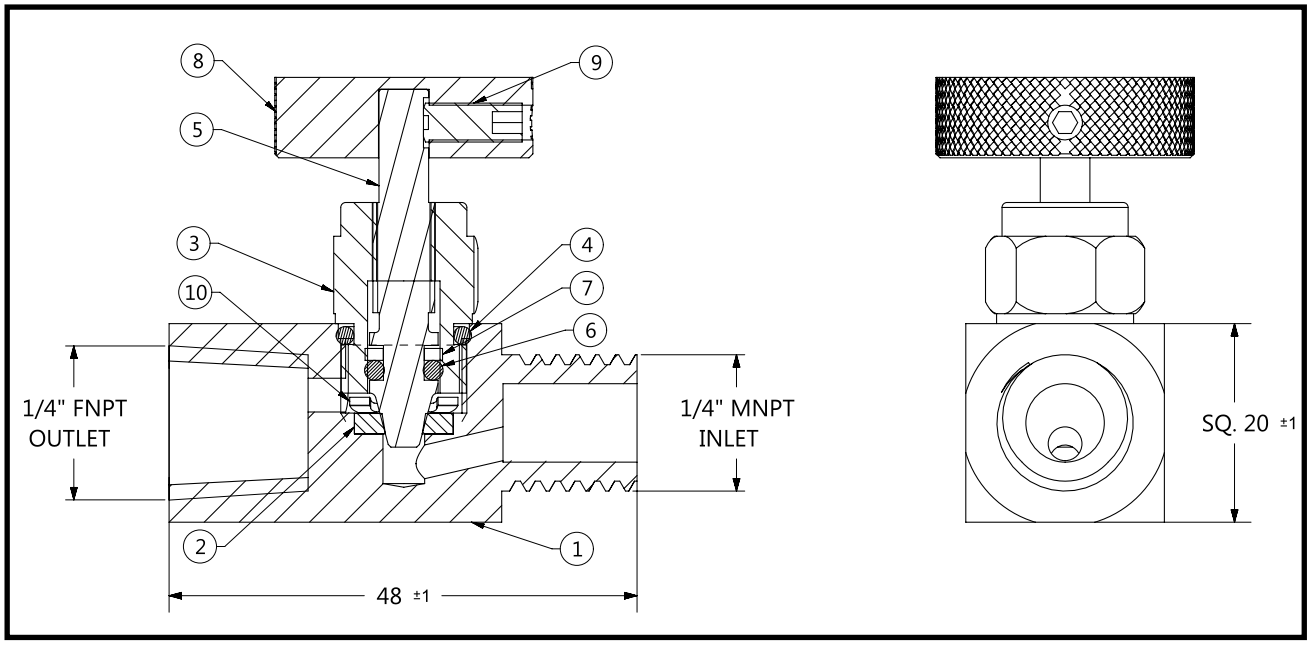
Inlet : MNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads

Spindle Tip - Non-Rotating tip shut-off type & soft Seated



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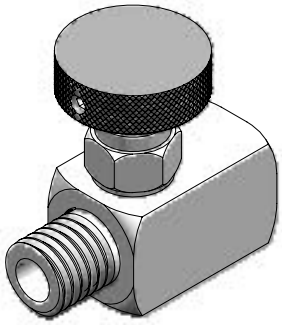
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Magwell Needle Valve Model MNV-MV-MF

A MAG-WELL Done . . .

- T Type Needle Valve, Male - Female Connection
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.

Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel



Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

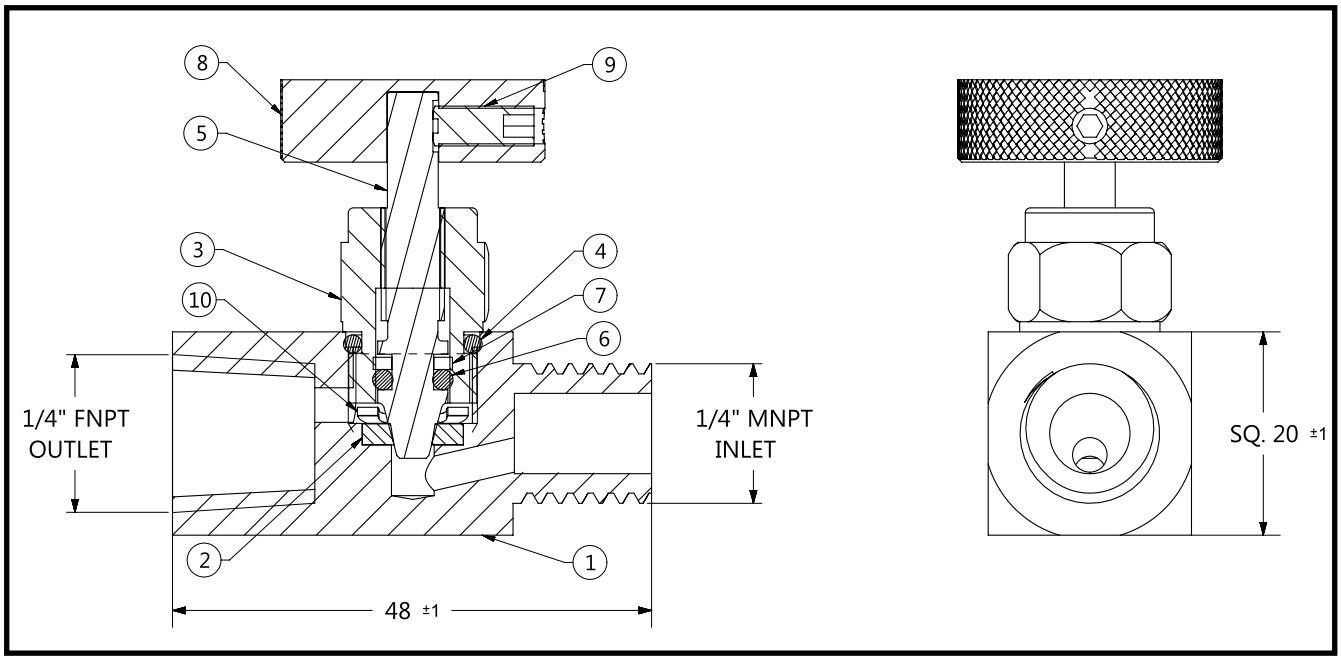
Body : Normal Body Type

Inlet : MNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads



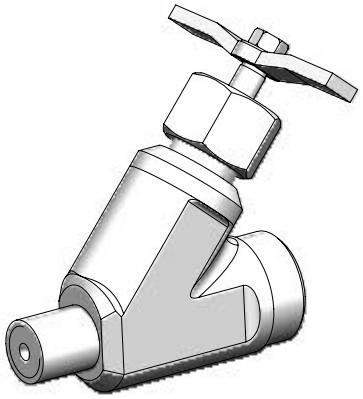
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- Y Type Needle Valve, Male - Female Connection
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.

Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel



Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

Body : Normal Body Type

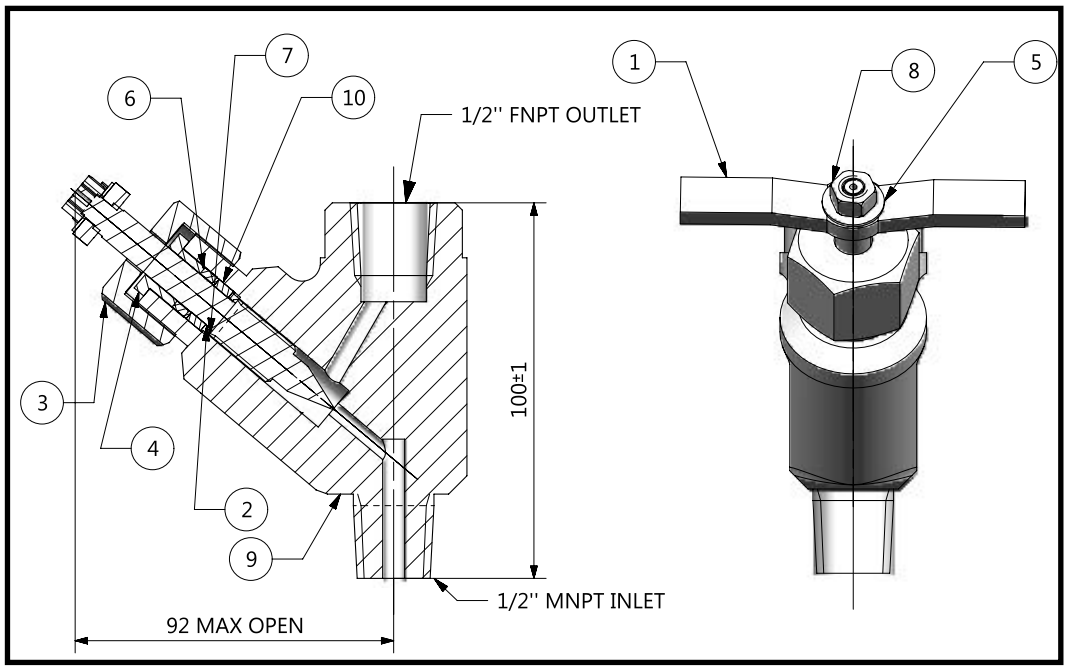
Inlet : MNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads

Spindle Tip - Non-Rotating tip shut-off type & soft Seated



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Magwell Needle Valve Model MNV-AT-FF

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- Angled Body Type Needle Valve, Female - Female Connection
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.

Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel

Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

Body : Normal Body Type

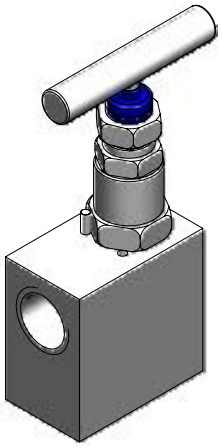
Inlet : FNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads

Spindle Tip - Non-Rotating tip shut-off type & soft Seated



S.No	Model	Valve Size	Orifice Dia in mm
1	MNV-AT-FF-1	1/4”	10
2	MNV-AT-FF-2	3/8”	10
3	MNV-AT-FF-3	1/2”	11
4	MNV-AT-FF-4	3/4”	16

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Magwell Needle Valve Model MNV-AT-MF

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- Angled Body Type Needle Valve, Male - Female Connection
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.

Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel

Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

Body : Normal Body Type

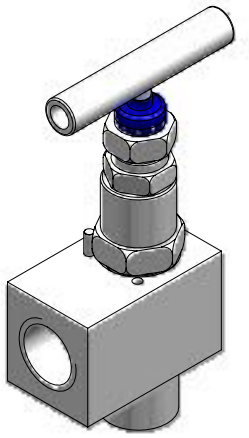
Inlet : FNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads

Spindle Tip - Non-Rotating tip shut-off type & soft Seated



S.No	Model	Valve Size	Orifice Dia in mm
1	MNV-AT-MF-1	1/4”	10
2	MNV-AT-MF-2	3/8”	10
3	MNV-AT-MF-3	1/2”	11
4	MNV-AT-MF-4	3/4”	16

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Magwell Needle Valve Model MNV-SB-FF

A MAG-WELL Done . . .

- Square Body Type Needle Valve, Female - Female Connection
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.

Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel

Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

Body : Normal Body Type

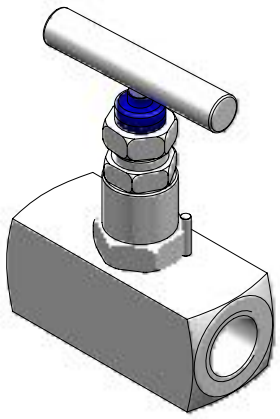
Inlet : FNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads

Spindle Tip - Non-Rotating tip shut-off type & soft Seated



S.No	Model	Valve Size	Orifice Dia in mm
1	MNV-SB-FF-1	1/4”	10
2	MNV-SB-FF-2	3/8”	10
3	MNV-SB-FF-3	1/2”	11
4	MNV-SB-FF-4	3/4”	16
5	MNV-SB-FF-5	1"	16

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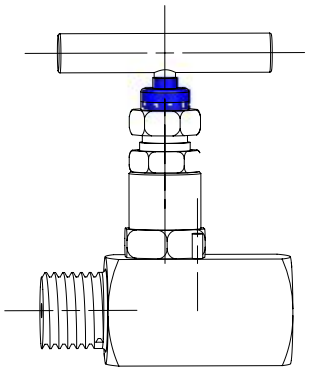
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Magwell Needle Valve Model MNV-SB-MF

A MAG-WELL Done . . .

- Square Body Type Needle Valve, Male - Female Connection
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.

Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel



Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

Body : Normal Body Type

Inlet : FNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads

Spindle Tip - Non-Rotating tip shut-off type & soft Seated

S.No	Model	Valve Size	Orifice Dia in mm
1	MNV-SB-MF-1	1/4”	10
2	MNV-SB-MF-2	3/8”	10
3	MNV-SB-MF-3	1/2”	11
4	MNV-SB-MF-4	3/4”	16
5	MNV-SB-MF-5	1"	16

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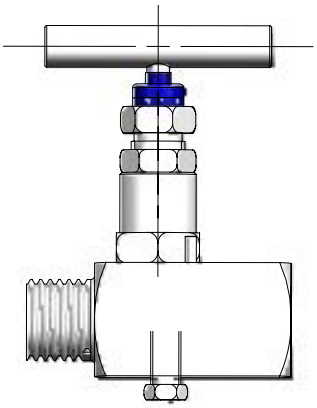
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Magwell Needle Valve Model MNV-SB-MFV

A MAG-WELL Done . . .

- Square Body Type Needle Valve, with Vent, Male - Female Connection
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.

Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel



Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

Body : Normal Body Type

Inlet : FNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads

Spindle Tip - Non-Rotating tip shut-off type & soft Seated

S.No	Model	Valve Size	Orifice Dia in mm
1	MNV-SB-MFV-1	1/4”	10
2	MNV-SB-MFV-2	3/8”	10
3	MNV-SB-MFV-3	1/2”	11
4	MNV-SB-MFV-4	3/4”	16
5	MNV-SB-MFV-5	1"	16

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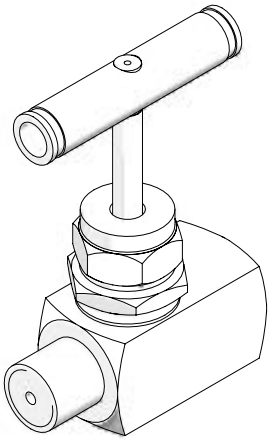
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Magwell Needle Valve Model MNV-IB-MF

A MAG-WELL Done . . .

- Integral Bonnet Type Needle Valve, with Vent, Male - Female Connection
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.

Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel



Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

Body : Normal Body Type

Inlet : FNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads

Spindle Tip - Non-Rotating tip shut-off type & soft Seated

S.No	Model	Valve Size	Orifice Dia in mm
1	MNV-IB-MF-1	1/4”	4
2	MNV-IB-MF-2	3/8”	4
3	MNV-IB-MF-3	1/2”	6
4	MNV-IB-MF-4	3/4”	6
5	MNV-IB-MF-5	1"	8

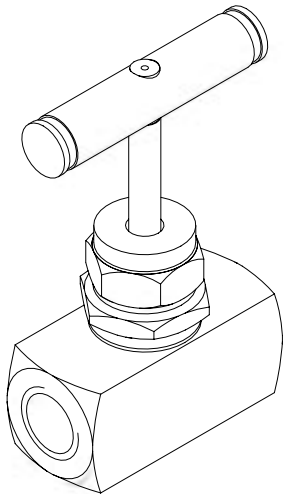
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Magwell Needle Valve Model MNV-IB-FF

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- Integral Bonnet Type Needle Valve, with Vent, Female - Female Connection
- SS 316/316L Bar stock construction
- Standard Working Pressure 6,000 PSI with PTFE packing.
- Optional 10,000, 15,000 & 20,000 PSI available on request
- Grafoil offered for higher temperatures.
- Standard NPT End Connections.
- Heat Code Traceability.
- NACE MR-01-75 Compliant materials available on request.
- 3.1 Certificates furnished.
- PMI certificates available on request.



Optional Materials Available :
- SS 316L
- Hastelloy C276
- Monel

Temperature Rating :
- PTFE 450°F (232°C)
- Grafoil 700°F (371°C)

Body : Normal Body Type

Inlet : FNPT

Outlet : FNPT

Bonnet Assembly :
- Screwed Bonnet Design
- Back Seat Blow Out proof

Spindle - Ground and thread rolled, packing below the threads

Spindle Tip - Non-Rotating tip shut-off type & soft Seated

S.No	Model	Valve Size	Orifice Dia in mm
1	MNV-IB-FF-1	1/4”	4
2	MNV-IB-FF-2	3/8”	4
3	MNV-IB-FF-3	1/2”	6
4	MNV-IB-FF-4	3/4”	6
5	MNV-IB-FF-5	1"	8

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