

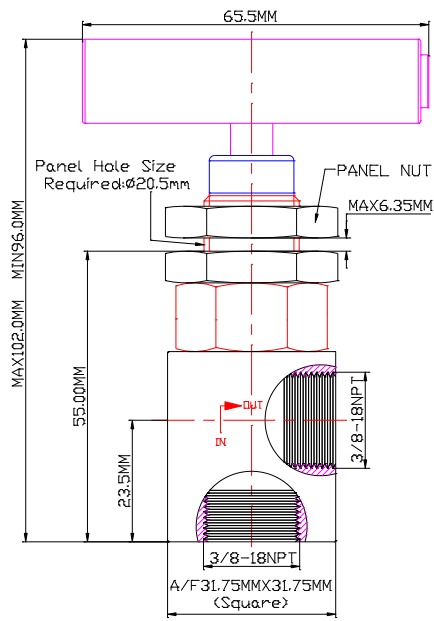
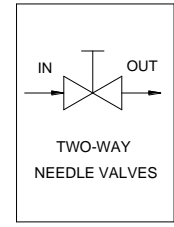


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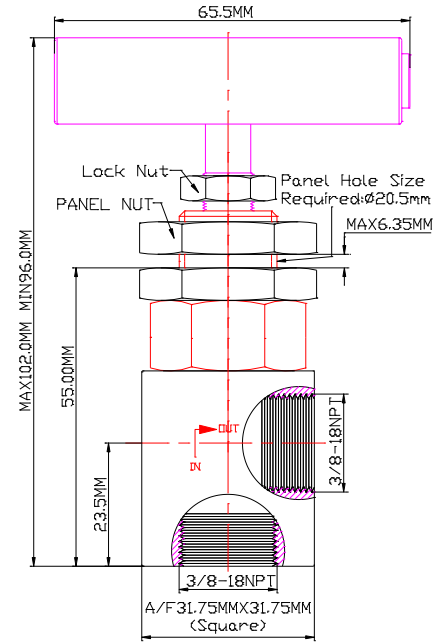
# NEEDLE VALVE (Angle Pattern)

## Descriptions

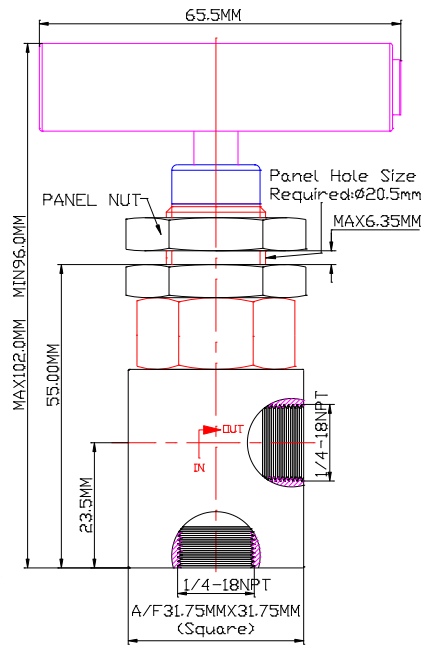
The needle valve is used to make relatively fine adjustments in the amount of fluid flow. They are often used as component parts of other valves, to shut off the flow of the process media to the pressure instrument. The characteristic of this valve is the long, tapered, needle like point on the end of the valve stem. This "needle" acts as a disk. The longer part of the needle is smaller than the orifice in the valve seat and passes through the orifice before the needle seats. This arrangement permits a very gradual increase or decrease in the size of the opening in a needle valve. Therefore, the valve can provide fine flow adjustments. The number of handle turns can be directly correlated to the amount of flow.



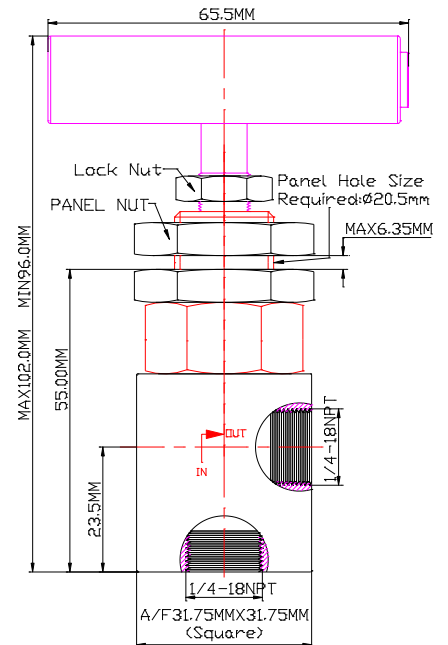
Ordering Ref : MV 90-PN-3/8F-10K-S-NV-H



Ordering Ref : MV 90-PNN-3/8F-10K-S-NV-H



Ordering Ref : MV 90-PN-1/4F-10K-S-NV-H



Ordering Ref : MV 90-PNN-1/4F-10K-S-NV-H

## Specification

Net Weight	450 gm	<b>Distinctions</b>  <table border="1"> <thead> <tr> <th>Ordering Ref no</th> <th>Port Connection Size</th> <th>Stem Seal</th> <th>Locknut</th> </tr> </thead> <tbody> <tr> <td>MV 90-PN-3/8F-10K-S-NV-H :</td> <td rowspan="2">IN &amp; OUT Ports: 3/8"-18NPT F</td> <td>With</td> <td>Without</td> </tr> <tr> <td>MV 90-PNN-3/8F-10K-S-NV-H :</td> <td>Without</td> <td>With</td> </tr> <tr> <td>MV 90-PN-1/4F-10K-S-NV-H :</td> <td rowspan="2">IN &amp; OUT Ports : 1/4"-18NPT F</td> <td>With</td> <td>Without</td> </tr> <tr> <td>MV 90-PNN-1/4F-10K-S-NV-H :</td> <td>Without</td> <td>With</td> </tr> </tbody> </table>	Ordering Ref no	Port Connection Size	Stem Seal	Locknut	MV 90-PN-3/8F-10K-S-NV-H :	IN & OUT Ports: 3/8"-18NPT F	With	Without	MV 90-PNN-3/8F-10K-S-NV-H :	Without	With	MV 90-PN-1/4F-10K-S-NV-H :	IN & OUT Ports : 1/4"-18NPT F	With	Without	MV 90-PNN-1/4F-10K-S-NV-H :	Without	With
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MV 90-PNN-1/4F-10K-S-NV-H :			Without	With																
Working Media	Oil																			
Max Working Pressure	10,000psi (689.4 bar)																			
Temperature Range	- 30°C to 120°C <i>Other Temperature Ranges available. Consult Factory</i>																			
Material(Valve Body)	316 L																			
Exterior Shape	SQ 31.75mm x 31.75mm(1 1/4" x 1 1/4")																			
Panel Hole Size	$\phi$ 20.5mm(51/64")																			
Orifice Size	$\phi$ 3.0mm(1/8")																			
Seal Material	Nitrile Rubber(NBR) <i>Other Seal Material are Available Upon Request</i>																			
Flow Rate	Cv = 0.35																			

\*\* Measurement stated are with tolerance of +/-10%. Optional Parts/Material are available upon request.

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