

INDUSTRIAL GRADE NEEDLE VALVES

Reotemp Industrial Grade Needle Valves provide isolation so that instruments can be serviced or removed without shutting down the process. Built from 316 stainless steel and pressure-tested, they use a metal-to-metal seat with PTFE packing (graphite and high-pressure PTFE packing are optional) to deliver leak-tight shutoff across a broad pressure and temperature range—up to 10,000 psi with the high-pressure PTFE packing option or up to 1,000°F with the graphite packing option. Configurations include hand valves, mini and angled mini valves, block and bleed valves, and multiport gauge valves. Multiport gauge valves can be purchased with optional plugs and bleed valves for quicker installations. Valve connection sizes are 1/4" FNPT, 1/4" MNPT, 1/2" FNPT or 1/2" MNPT, and every size and body configuration comes with dust caps to protect the bonnet and stem.



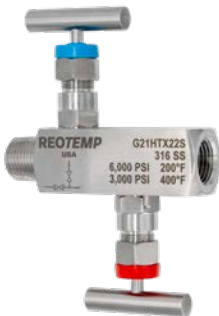
N11



M11



MA1



G21



G11



G41

FEATURES / BENEFITS

- All Valves are Pressure Tested for Optimal Performance
- Standard with PTFE Packing
- Dust Caps for Bonnet & Stem

SPECIFICATIONS

Body Material	316 Stainless Steel	
Pressure/ Temperature Rating	PTFE Packing	6,000psi at 200°F
		3,000psi at 400°F
	Graphite Packing	6,000psi at 200°F
		1,500psi at 1,000°F
	PTFE High Pressure	10,000psi at 120°F
		3,000psi at 400°F
	PTFE Packing Mini Valve	3,000psi at 200°F
Connections Available	1/4" MXF, 1/4"FXF, 1/2" MXF, 1/2"FXF	

VALVES

## INDUSTRIAL GRADE NEEDLE VALVES

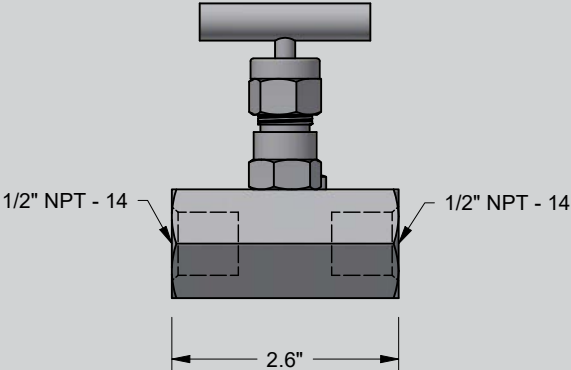

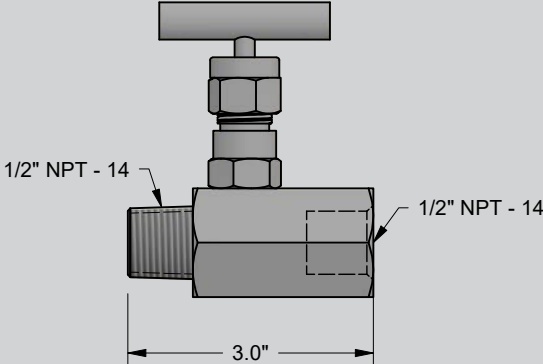

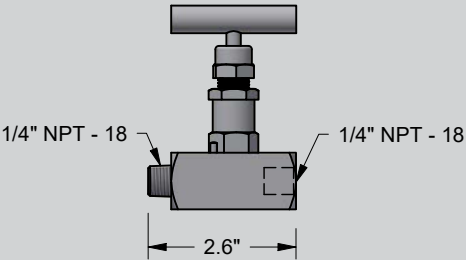

**HOW TO ORDER:** Choose options to build a part number. For example: **N11HTX22S-TS**

<b>N11</b>	<b>H</b>	<b>T</b>	<b>X</b>	<b>22</b>	<b>S</b>	<b>-TS</b>
MODEL	SEAT TYPE	BONNET SEALS	SEAT MATERIAL	CONNECTION SIZE	BODY MATERIAL	OPTIONS
<b>N11</b> = Industrial Grade Hand Valve <b>M11</b> = Industrial Grade Mini Valve <b>MA1</b> = Industrial Grade Angled Mini Valve <b>G11</b> = Industrial Grade Block & Bleed Valve <b>G21</b> = Industrial Grade 2-Valve Block & Bleed Valve <b>G31</b> = Industrial Grade Double Block & Bleed Valve <b>G41</b> = Industrial Grade Multiport Gauge Valve	<b>H</b> = Hard Seat (Integral)	<b>T</b> = PTFE-Standard <b>G</b> = Graphite-High Temperature <sup>1</sup> <b>H</b> = PTFE-High Pressure <sup>1</sup>	<b>X</b> = Metal to Metal Seat	<b>22</b> = 1/2" MNPT Inlet x 1/2" FNPT Outlet <sup>1</sup> <b>2F</b> = 1/2" FNPT Inlet x 1/2" FNPT Outlet <sup>1</sup> <b>44</b> = 1/4" MNPT Inlet x 1/4" FNPT Outlet <b>4F</b> = 1/4" FNPT Inlet x 1/4" FNPT Outlet	<b>S</b> = 316SS	<b>HP</b> = Hex Plug <sup>2</sup> <b>BP</b> = Bleeder Plug <sup>2</sup> <b>BV</b> = Bleeder Valve <sup>2</sup> <b>TS</b> = Stainless Steel Tag <sup>2</sup> Only Available for G41

<sup>1</sup>Not Available for Mini Valves

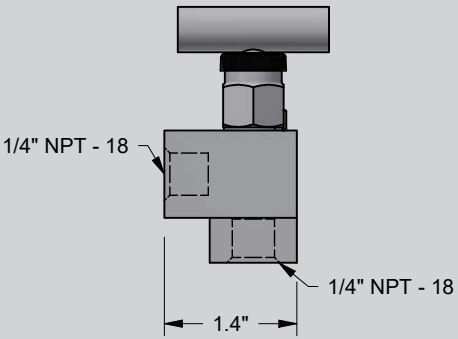

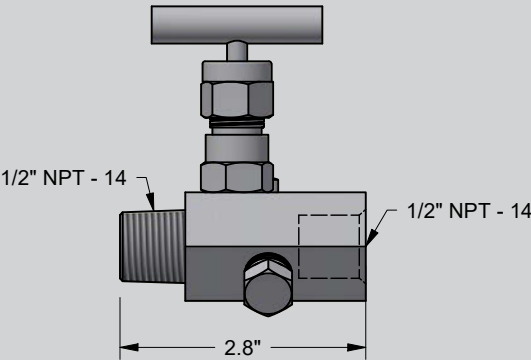
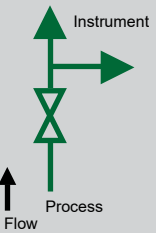
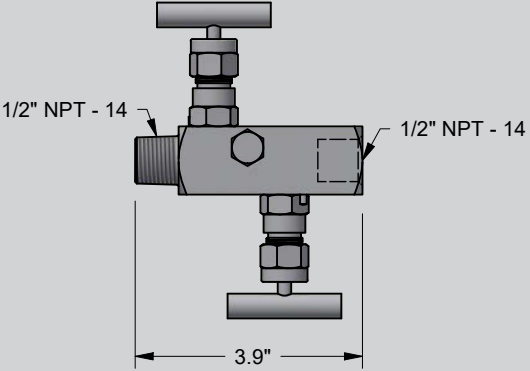
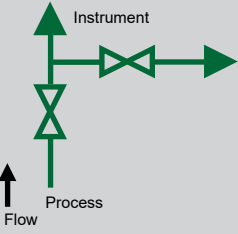
**Note:** Not all combinations in the above table are possible. Conversely, if a combination is desired but not seen, ask your Reotemp Sales Representative. Additional configurations and options are available upon request.

INDUSTRIAL GRADE NEEDLE VALVES

Body Configuration	Description		Flow Diagram
	1/2" N11 FXF	Hand valve with simple on/off function	
	1/2" N11 MXF	Hand valve with simple on/off function	
	1/4" M11	Miniature valve for compact spaces	

**Note:** Dimensions will change slightly for different NPT sizes as well as different packing selections.

INDUSTRIAL GRADE NEEDLE VALVES

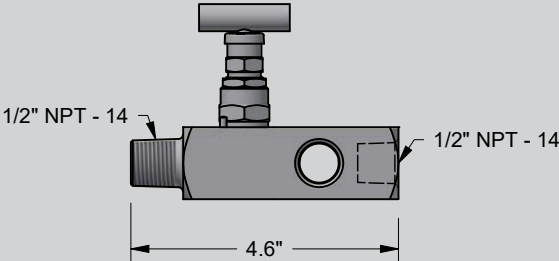
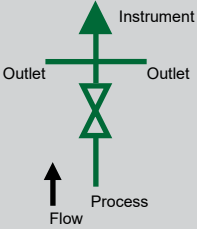
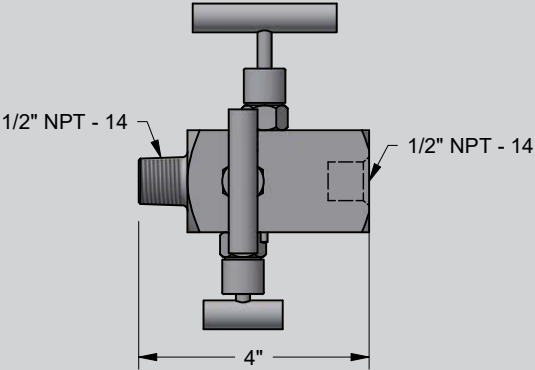
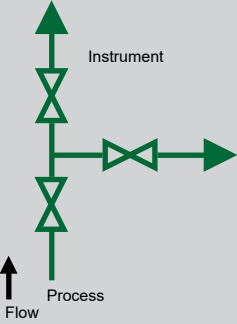
Body Configuration	Description		Flow Diagram
	1/4" MA1	Angled miniature valve for compact spaces	 Unidirectional Flow
	1/2" G11	Gauge valve with plugged vent	 Instrument Process Flow
	1/2" G21	Block and bleed gauge valve	 Instrument Process Flow

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VALVES

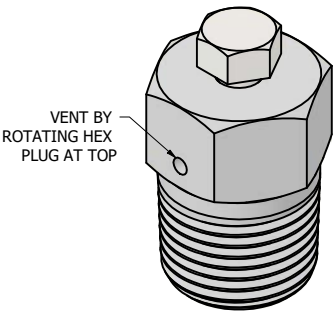
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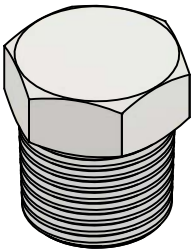
Body Configuration		Description	Flow Diagram
	1/2" G41	Multiport gauge valve	
	1/2" G31	Double block and bleed gauge valve	

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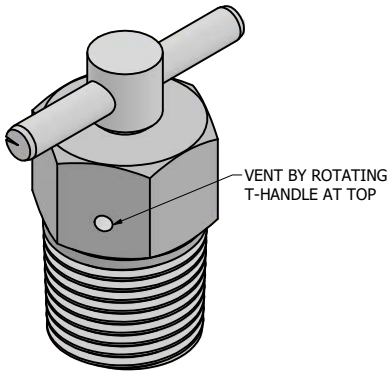
Plug Options



-HP (Hex Plug)



-BP (Bleeder Plug)



-BV (Bleeder Valve)