

MINIATURE FORGED NEEDLE VALVES

Series 8100

DESCRIPTION

These valves are used in a wide variety of industrial and laboratory applications. They offer excellent flow control and both the brass and stainless steel models have Teflon® packing.

SPECIFICATIONS

Max. operating pressure: brass 3000 psig
 stainless steel 6000 psig
 Monel® 3500 psig
 Operating temperature range: -65° to 100°F
 Flow coefficient(C_v): brass 0.048
 stainless steel 0.48
 Monel® 0.24

HOW TO ORDER

Brass	Model		Pattern	Connections
	316 SS	Monel		
8111	8121	--	Straight	1/8" NPT male
8112	8122	8152	Straight	1/4" NPT male
8113	8123	--	Straight	1/4" compression



CHECK VALVES

Series 8400

DESCRIPTION

Check valves prevent the return flow of gas, thus keeping foreign substances out of lines, regulators, and cylinders located upstream of the valve.

These valves are a spring loaded design with the spring on the high pressure side to protect it from foreign substances. The positive stop prevents over-stressing of the spring by sudden surges of gas pressure. An o-ring at the valve seat provides quick, efficient sealing.



HOW TO ORDER

Model	Materials of Construction	Cracking Pressure PSIG	End Connections	Operating Pressure PSIG
8410V	Brass body, Viton® o-ring, st. st. spring	~ 1	1/4" NPT female	3000
8410V-5-P4MM	Brass body, Viton® o-ring, st. st. spring	~ 5	1/4" NPT male	3000
8420E	316 st. st., EPR o-ring, st. st. spring	~ 1	1/4" NPT female	3000
8420V	316 st. st., Viton® o-ring, st. st. spring	~ 1	1/4" NPT female	3000
8420V-5-P4MM	316 st. st., Viton® o-ring, st. st. spring	~ 5	1/4" NPT male	6000
8450V	Monel®, Viton® o-ring, st. st. spring	~ 1	1/4" NPT female	3000

Note: Check valves with other o-ring materials are available.