

Gas Equipment



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: 3000 psig
Operating temperature range: -65°F to 165°F
Flow coefficient(Cv): 0.35



HOW TO ORDER

Model		Pattern	Connections
Brass	316SS 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.

The valves have a one piece body with 1/4" NPT female connections inlet and outlet. It is rated for 3000 psig with a cracking pressure of approximately 1 psig.



HOW TO ORDER

Model	Materials of Construction
8410V	Brass body, Viton® o-ring, st.st. spring
8420E	316 st. st., EPR o-ring, st. st. spring
8420V	316 st. st., Viton® o-ring, st.st. spring
8450V	Monel®, Viton® o-ring, st.st. spring

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

RELIEF VALVES Series 8600

DESCRIPTION

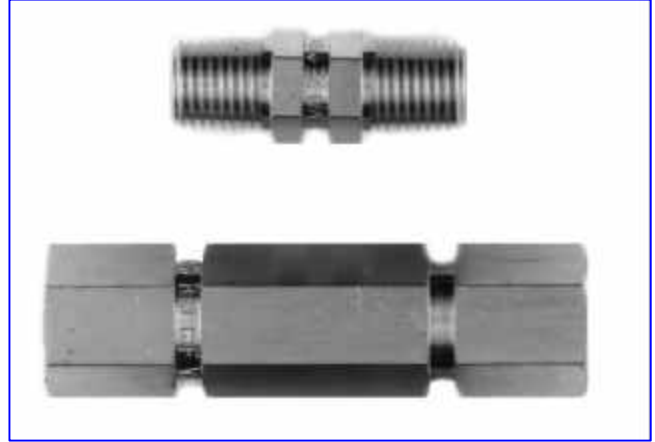
These easily field adjustable relief valves provide for the protection of equipment components installed in systems where they may be exposed to over pressurization due to the failure of another component or an operator error.

FEATURES

- Working pressure to 3000 psig
- Wide range of pressure adjustment
- 100% tested for crack and reseal performance
- Available in brass and stainless steel

SPECIFICATIONS

Maximum Working Pressure @ 70F°	3000psig
Flow Coefficient (C _v):	0.35
Temperature Rating:	
with Buna-N o-ring	-10 to 250F°
with Viton® o-ring	-10 to 375F°
O-ring Material:	brass Buna-N
	stainless steel Vitron®



HOW TO ORDER

Model	Material	Adjustable Range	Connections inlet x outlet
8613-1 BMM	brass	3-50 psig	1/4" NPT male x 1/4" NPT male
86113-2BMM	brass	50-150 psig	1/4" NPT male x 1/4" NPT male
86113-3BMM	brass	150-350 psig	1/4" NPT male x 1/4" NPT male
86113-4BMM	brass	350-600 psig	1/4" NPT male x 1/4" NPT male
8613-1BFF	brass	3-50 psig	1/4" NPT female x 1/4" NPT female
8613-2BFF	brass	50-150 psig	1/4" NPT female x 1/4" NPT female
8613-3BFF	brass	150-350 psig	1/4" NPT female x 1/4" NPT female
8613-4BFF	brass	350-600 psig	1/4" NPT female x 1/4" NPT female
8623-1SMM	stainless	3-50 psig	1/4" NPT male x 1/4" NPT male
8623-2SMM	stainless	50-150 psig	1/4" NPT male x 1/4" NPT male
8623-3SMM	stainless	150-350 psig	1/4" NPT male x 1/4" NPT male
8623-4SMM	stainless	350-600 psig	1/4" NPT male x 1/4" NPT male
8623-1SFF	stainless	3-50 psig	1/4" NPT female x 1/4" NPT female
8623-2SFF	stainless	50-150 psig	1/4" NPT female x 1/4" NPT female
8623-3SFF	stainless	150-350 psig	1/4" NPT female x 1/4" NPT female

MANUAL CONTROL VALVES Series 8500

DESCRIPTION

Manual controls are designed for direct connection to a compressed gas cylinder valve outlet. They provide a simple means of transferring the contents of a cylinder to another system or vessel. They DO NOT control pressure and should never be used without an operator in attendance at all times.

Four models are presented here with the following basic design features:

- Maximum inlet pressure
- Teflon® packing for smooth leak-free operation
- Finger-tip control of flow from only a few cc per minute to very rapid withdrawal



HOW TO ORDER

**Series 8523 - 303 Stainless Steel with 0-3000 psig
Cylinder Pressure Gauge**

Model	Outlet Connection
8520H*	1/4" hose barb
8520T*	1/4" compression fitting
8520PF*	1/4" NPT female

*Specify CGA connection number when ordering



HOW TO ORDER

**Series 8523 - 303 Stainless Steel with 0-3000 psig
Cylinder Pressure Gauge**

Model	Outlet Connection
8523H*	1/4" hose barb
8523T*	1/4" compression fitting
8523PF*	1/4" NPT female

*Specify CGA connection number when ordering

Series 8550 - Monel®

Model	Outlet Connection
8550H*	1/4" hose barb
8550T*	1/4" compression fitting
8550PF*	1/4" NPT female

*Specify CGA connection number when ordering

EASY-MOUNT REGULATOR BRACKET Series EZ3000

This bracket allows either single stage or two stage regulators to be mounted or removed without removing the adjusting knob or resetting the delivery pressure provided the regulator is supplied by the factory with the panel mount nut installed. The bracket will accommodate any bar stock panel mountable regulator shown in this catalog.



HOW TO ORDER

Model	Description
EZ3100	For single stage regulators
EZ3200	For two stage regulators