

Model SG6140

High Pressure Purifier

Model SG6140 purifier is designed to remove water and/or oil from gas or liquid streams. In the laboratory, it protects delicate or sensitive instruments, prolongs service life and provides more accurate, reproducible test results. This purifier may be used with noncorrosive gases compatible with brass and Viton® at pressures up to 3000 psig.

Three different purifying elements are available (see Tables I and II). These elements can be replaced without removing the purifier from the process line.

Note: Model SG6140 cannot be used as a particulate filter. For particulate filters see pages 143–146.

Specifications

Maximum Operating Pressure: 3000 psig

Pressure Drop:

1.0 psi at 56 slpm Air

2.4 psi at 85 slpm Air

Dew Point Obtainable

(4A and 13X Molecular Sieve): -100°F

Inlet & Outlet Connections: 1/4" NPT female

Dimensions:

Height: 5 1/16"

Diameter (Widest Point): 2"

Mounting Holes (2):

1/4" -20UNC x 3/8" deep

Approximate Weight: 3 lbs

Materials of Construction

Purifier:

Body and Cap: Brass

O-Ring Seal: Viton®

Purifier Element:

Housing: Electrolytic Tin-Plated

Cold-Rolled Steel

Retainer: Polyester Felt Backed

by Type 316 SS Screen

Desiccant: 4A, 13X or Activated

Charcoal as Ordered



SG6140 Purifier



Element

Table I, SG6140 Purifier

Part No.	Element Type
SG6140	None
SG6140-1	Type 13X Molecular Sieve
SG6140-2	Type 4A Molecular Sieve
SG6140-3	Activated Charcoal

Elements are shipped in individually packed, hermetically sealed cans to prevent deterioration. They must be installed before using the purifier.

Table II, Application

Element Type	Used for Removing	Water Capacity at Flow Rate of 2 scfm at 80°F
Type 13X Molecular Sieve	Oil and Water	5.5 grams
Type 4A Molecular Sieve	Water	6.0 grams
Activated Charcoal	Oil and Heavy Hydrocarbons*	NA

* Will remove trace amounts of Acetone in Acetylene for use in atomic absorption applications.

Optional Equipment

Equipment	Part No.
Replacement Element:	
Type 13X Molecular Sieve	SG6141
Type 4A Molecular Sieve	SG6142
Activated Charcoal	SG6143
Replacement Viton® O-Ring	0202-3268