

Gage Block Assemblies

Parr gage block assemblies combine the functions of an Inlet / Outlet Valve, a Pressure Gage, and a Safety Rupture Disc into a compact assembly which can be attached to the head of any small vessel with limited head space using a connecting tube. There is a threaded socket in the block for a gas connection with a pressure hose or tubing using a type "A" coned pressure fitting. Coned fittings are also used on the thick-walled tube which connects the block to the pressure vessel. The valve in this assembly controls the gas flow into the vessel and the gage shows the pressure in the vessel when the valve is closed. A rupture disc with a burst rating matched to the gage is installed in the block.

For small vessels with a 1-inch I.D. that can only accommodate a single head port, we offer a version of the 4310A with a 1/16" O.D. thermocouple.

Two Sizes

These gage block assemblies are made in two styles which differ only in the size of the pressure gage and the size of the tube connection to the pressure vessel. The smaller 4310A Gage Block Assembly is usually furnished with a 3-1/2 inch diameter pressure gage and includes a 3-inch long connecting tube with type "A" coned fitting. This assembly is normally installed on pressure vessels up to 600 mL.

The 4310B Gage Block Assembly has a 4-1/2 inch diameter gage and type "B" coned fitting on a 3-inch long connecting tube. This assembly is normally installed on vessels of 1000 mL and larger.

The gage block, connecting tube and pressure gage on all of these assemblies are normally made of type 316 Stainless Steel, but they can also be made of Alloy 400 on special order. Longer tubes can be furnished on special order.

Ordering Information

Part Number	Description
-4310A	with Type "A" Connector
-4310B	with Type "B" Connector

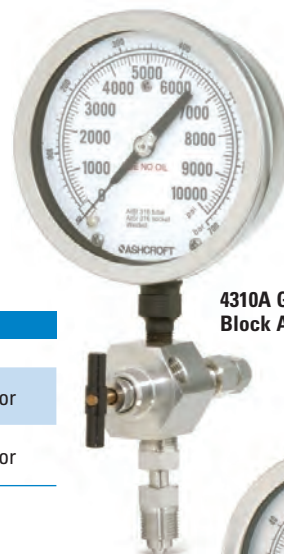
Available Gages

Any of the gages shown in this table can be installed on these gage block assemblies.

Gages for Parr Pressure Vessels

Pressure Range		4-1/2" Diameter	3-1/2" Diameter
psi	bar	Gage Number	Gage Number
0-100	0-7	56HCPA	593HCP1AD
0-200	0-14	56HCPB	593HCP2AD
0-600	0-40	56HCPC	593HCP6AD
0-1000	0-69	56HCPD	593HCPD
0-2000	0-138	56HCPF	593HCPF
0-3000	0-207	56HCPG	593HCPG
0-5000	0-345	56HCPH	593HCP50AD
0-7500	0-517	56HCP75A	N/A
0-10000	0-690	56HCPK	N/A

When ordering, specify the catalog number, pressure gage diameter, range, and if a thermocouple is required.



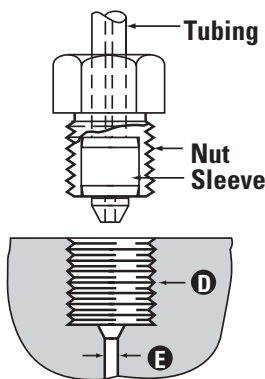
4310A Gage Block Assembly



4310B Gage Block Assembly

Coned Pressure Fittings

Gage Blocks, pressure hoses and other parts that are frequently removed from a pressure vessel are attached with a coned, socket type connector. The male segment of a coned fitting consists of a sleeve with a left-hand thread screwed onto a thick-walled tube, plus a compression nut to complete the assembly. When screwed into a mating socket these parts produce a rigid joint which will remain tight over a wide temperature and pressure range, yet the joint can be made and broken repeatedly without destroying the sealing faces. No gasket or sealing tape is required. These fittings have the added advantage of behaving like union fitting,



allowing the gage block, connecting tube or hose to remain stationary while the nut is tightened.

Parr coned pressure fittings are made in two sizes, identified as types "A" and "B", for 1/4-inch and 3/8-inch tubing, respectively.

Coned Pressure Fittings

Type	A	B
Tube Size	1/4"	3/8"
Thread (D)	9/16 -18	3/4 -16
Bore (E)	3/32"	1/8"
Nut No.	35HC	326HC
Sleeve No.	40HC	366HC