

High Pressure Gas Master Valves HP9560 Series

Application

The HP9560 Series high pressure brass valves are used on cylinder filling panels, tube trailers, and high pressure manifolds and piping systems. The HP9560 Series exhibits a very low operating torque under pressure for ease of manual operation.

Features

- 5600 PSI (386 Bar) maximum working pressure
- Non-rising stem design with O-Ring Seal for durable service.
- Large brass handwheel for easy low torque operation under pressure.
- All valves cleaned for use in oxygen per CGA G-4.1.
- Temperature range -40°F to +165°F.
- 100% Factory Tested

Materials

Body, bonnet, stem, and seat retainer, stem seal retaining rings and washer	Brass
Stem O-ring	Viton
Thrust bearing	PCTFE

Soft Seat Option

The soft seat valves use a CTFE seat disc in the seat retainer to create a “bubble-tight” seal against a machined seat surface on the brass body. Valve Cv is 2.6. The soft seat option is especially useful for small molecule gases like hydrogen and helium, but can be used for a variety of non-corrosive industrial gases including argon, nitrogen, carbon dioxide, nitrous oxide, and acetylene.

Metal Seat Option:

A copper seat disc is used in the seat retainer to create a seal against a Monel body seat, which is installed into the body and can be replaced. Valve Cv is 2.3. The metal seat option minimizes the possibility of seat decomposition or ignition in oxygen service under adiabatic compression. The metal seat option is recommended for oxygen, and can also be used for other non-corrosive industrial gases. The metal seat option is not to be used for acetylene due to the copper seat. Not to be applied in hydrogen or helium service or where a “bubble-tight” seal is essential. (Note: C in part number)

Nylon seat option: available also (ex. HP9560NB).

Bonnet Versions

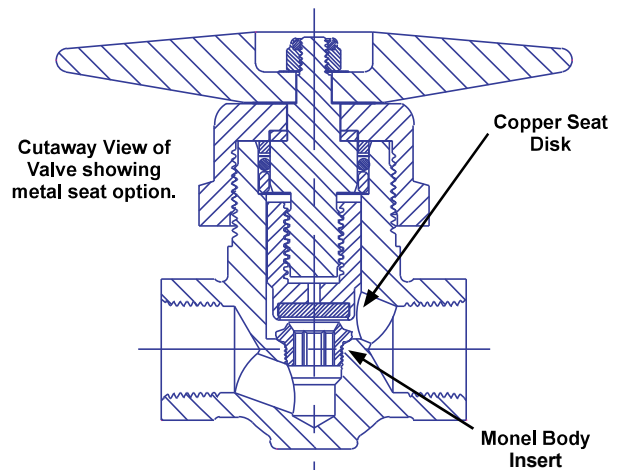
- Standard Bonnet for low profile.
- Panel Mount Bonnet for ease of panel installation. Includes threaded bonnet and nickel plated brass mounting nut. Metal Seat Option 1.625" diameter panel hole required for mounting. (Note: P in part number)



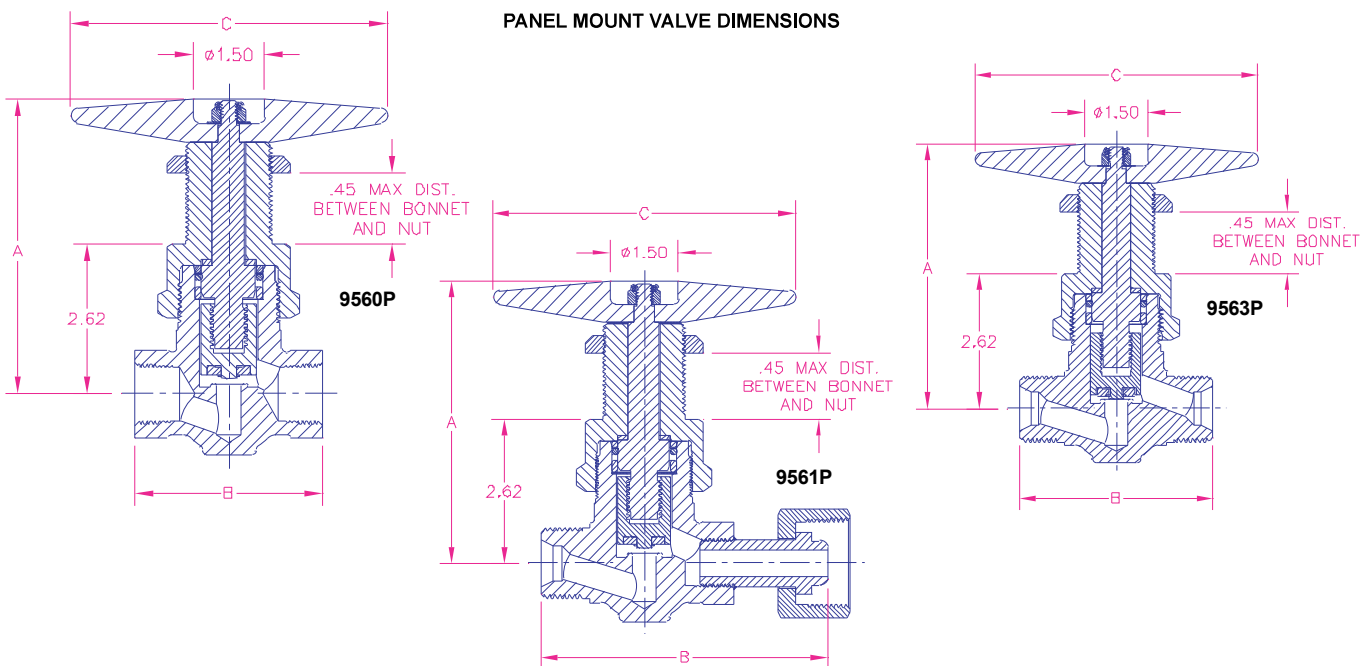
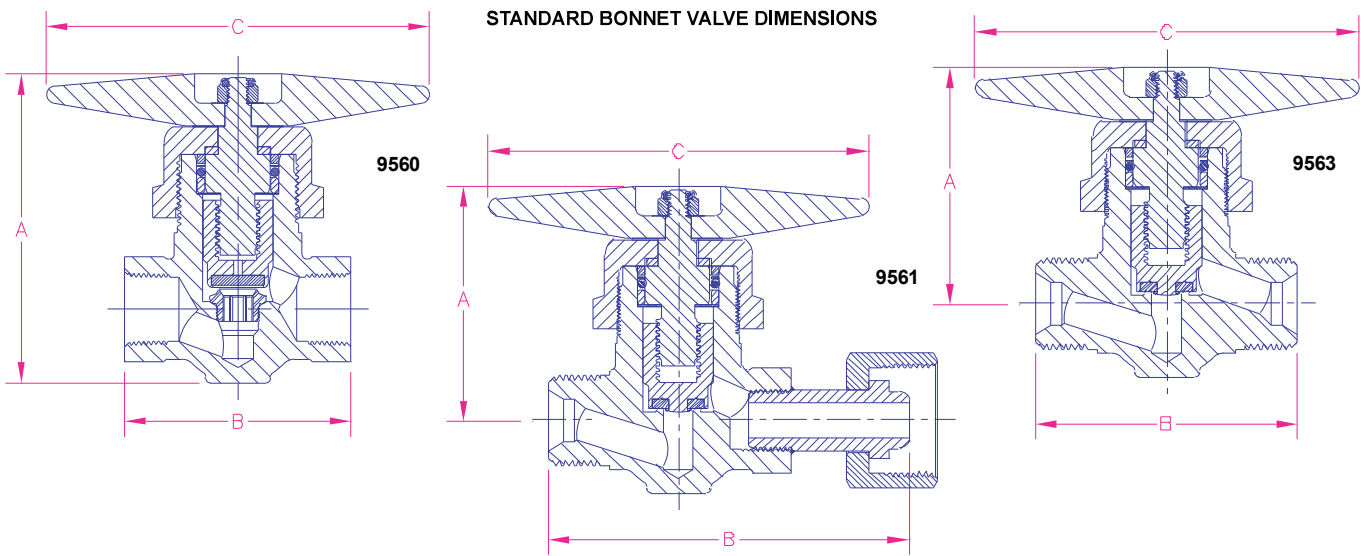
STANDARD BONNET VALVE



PANEL MOUNT VALVE



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Part Number		Inlet Connection	Outlet Connection	Height A	Length B	Handwheel Length C
Soft Seat	Metal Seat					
HP9560A	HP9560CA	1/2" F. NPT	1/2" F. NPT	4.36" *[6.19" for panel mount version]	3.25"	5.5"
HP9560B	HP9560CB	3/4" F. NPT	3/4" F. NPT			
HP9561R	HP9561CR	1"-11 1/2" NPSM R.H.	1"-11 1/2" R.H. Female Swivel		5.27"	
HP9561RL	HP9561CRL	1"-11 1/2" NPSM R.H.	1"-11 1/2" NPS L.H. Female Swivel			
HP9561L	HP9561CL	1"-11 1/2" NPSM L.H.	1"-11 1/2" L.H. Female Swivel		3.79"	
HP9563R	HP9563CR	1"-11 1/2" NPSM R.H.	1"-11 1/2" NPSM R.H.			
HP9563L	HP9563CL	1"-11 1/2" NPSM L.H.	1"-11 1/2" NPSM L.H.			
HP9560ASE	HP9560CASE	.843 - .847	.843 - .847		3.25"	
HP9560BSE	HP9560CBSE	1.053 - 1.057	1.053 - 1.057			
HP9560BSE-B	HP9560CBSE-B	1.053 - 1.057	3/4" F.NPT			

Note: Place "P" at end of part number for panel mount version.
Nylon seat option is also available (ex: HP9560NBP)
For different handwheel size consult factory.

Line Station Valves 7160 Series



Application

7160 series valves are designed for use with oxygen and all fuel gases at station outlets of line distribution systems such as welder's benches, cutting stations, hospital rooms, etc.

Features

- UL Listed Approved for oxygen and all fuel gas services at 400 PSIG maximum working pressure.
- All valves cleaned for use in oxygen per CGA G-4.1
- O-ring stem seal works with the pressure causing a tighter seal as pressure increases.
- A reverse flow check valve installed in the valve outlet connection helps prevent reverse flow.
- Available with brass cap and chain protection.
- Meets the requirements of National Fire Protection Association (NFPA) Pamphlet No. 51.

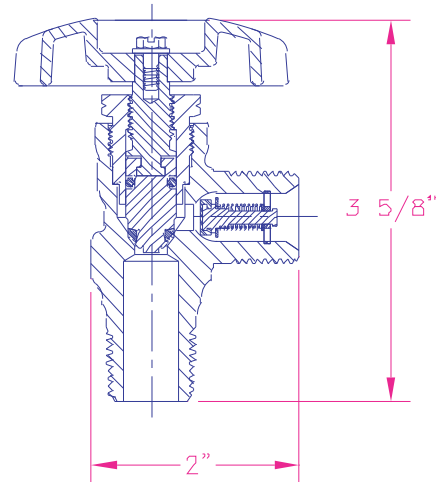
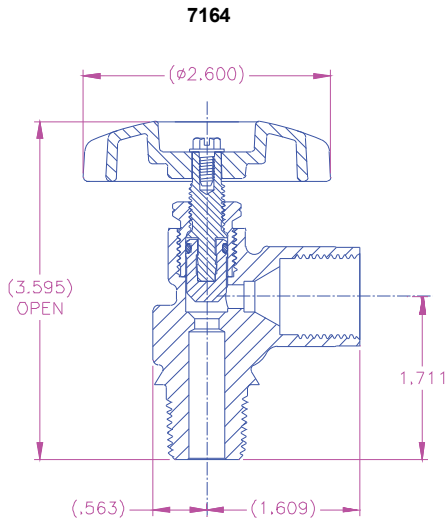


7160 Series

Materials

Body Brass
 Stem and Seat Retainer Brass
 O-ring Neoprene
 Seat Disc Nylon
 Reverse Flow Check Seat Neoprene

7160 and 7161 Series



Ordering Information

Part Number	Gas Service	Inlet Thread	Outlet Thread	CGA Connection	C _v Factor	Outlet Protection*
7160V	Oxygen and Inert Gases	½" NGT	7/8" - 14 M. R.H.	024	.76	10663 Brass Cap & Chain
7160VL						None
7161V	Fuel Gases	½" NGT	7/8" - 14 M. L.H.	025		10664 Brass Cap & Chain
7161VL						None
7164	Inert Gases	½" NPT	7/8" - 14 F. R.H.	034	None	

*Outlet Protection is recommended.

