Shut-Off Valve Assembly 1/2" through 4"

SPECIFICATION

Shut-Off Valve

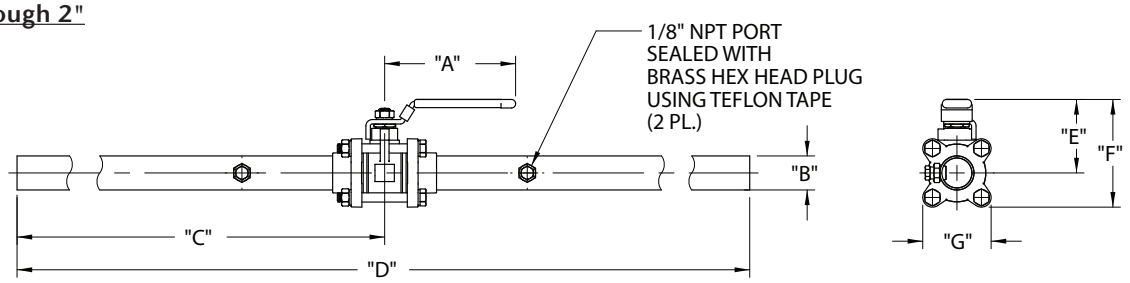
Shut off valve shall be full port, double seal, ball type three piece design with bronze/brass body and chrome plated brass ball. Only 1/4 turn of the handle shall be required to operate the valve from open to closed position. All valves shall be serviceable in the line and supplied clean and prepared for oxygen service. Color-coded gas identification labels shall be provided with each valve. Valves are oxygen cleaned, capped, and poly-bagged per CGA G-4.1. Each polyethylene bag is labeled with CGA G-4.1 conformance. Valve handle includes locking mechanism.

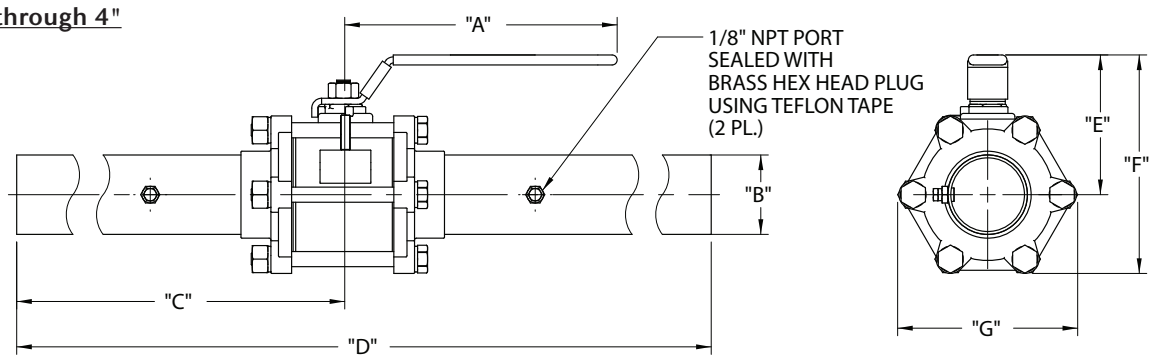
Shut-Off Valve Design

Valves shall be designed for a maximum working pressure of 600 psig WOG or vacuum service to 29" Hg. Valve body shall have reinforced PTFE ball seat and reinforced PTFE stem seals, and include a blowout proof stem. Seats/seals, lubricants and valve material shall be compatible with USP oxygen, nitrous oxide, medical air, carbon dioxide, helium, argon, nitrogen and mixtures thereof at continuous pressure up to 600 psig and up to 100° F. Valves shall be provided with type K copper tube extensions for making connections to the pipeline. Valves conform to MSS SP-110. Type K copper tube extensions conform to ASTM B88, UNS No. C12200, and H58 temper.

Dual Port Shut-Off Valves with Locking Handle									
Valve Size	Part Number	A	B	C	D	E	F	G	Cv/Kv
1/2"	☐ 211600-00	3.35"	5/8" O.D. (1/2" nominal)	13.00	26.00	1.69	2.71	2.03	29/25
3/4"	☐ 211601-00	4.33"	7/8" O.D. (3/4" nominal)	13.00	26.00	1.89	2.91	2.03	46/40
1"	☐ 211602-00	4.33"	1-1/8" O.D. (1" nominal)	13.00	26.00	2.05	3.20	2.39	64/56
1-1/4"	☐ 211603-00	5.12"	1-3/8" O.D. (1-1/4" nominal)	13.00	26.00	2.56	3.92	2.71	122/105
1-1/2"	☐ 211604-00	5.12"	1-5/8" O.D. (1-1/2" nominal)	13.00	26.00	2.72	4.25	3.05	169/146
2"	☐ 211605-00	6.30"	2-1/8" O.D. (2" nominal)	13.00	26.00	3.15	5.05	3.80	357/308

1/2" through 2"



Dual Port Shut-Off Valves with Locking Handle									
Valve Size	Part Number	A	B	C	D	E	F	G	Cv/Kv
2-1/2"	☐ 211606-00	9.06"	2-5/8" O.D. (2-1/2" nominal)	16.00	32.00	4.29	7.09	5.95	502/433
3"	☐ 211607-00	9.06"	3-1/8" O.D. (3" nominal)	16.00	32.00	4.61	7.46	6.44	911/786
4"	☐ 211608-00	11.73"	4-1/8" O.D. (4" nominal)	16.00	32.00	7.90	11.65	8.52	1,837/1,583

2-1/2" through 4"