



## Fittings and Adapters

### Materials & Specifications

- **Temperature Range**  
-450°F to 1500°F (-265°C to 815°C)
- **Oxygen Service**  
Cleaned to CGA G4.1 Specifications
- **Weight**  
1.5 oz. (550-0760 and 550-0761)  
1.5 oz. (550-0763)  
3.0 oz. (550-0762 and 550-0764)

Part Number	Description	Connections	Body Material
529-0019	½" x ½" Manifold Connector	½" MPT x ½" MPT (3,000 PSIG max)	Stainless Steel
529-0024	½" x ¼" Manifold Connector	½" MPT x ¼" MPT (3,000 PSIG max)	Stainless Steel
529-0224	¼" x ¼" Manifold Connector	½" MPT x ¼" MPT (3,000 PSIG max)	Stainless Steel
550-0760	Male pipe to male tube	½" MPT x CGA 295 (liquid nitrogen and argon)	Brass
550-0761	Male pipe to male tube	¾" MPT x CGA 440 (liquid oxygen)	Brass
550-0762	90° elbow extension	CGA 440 x CGA 440 (liquid oxygen)	304 Stainless Steel
550-0764	90° elbow extension	CGA 295 x CGA 295 (liquid nitrogen and argon)	304 Stainless Steel
829-1839	Union Gland	½" MPT (3,000 PSIG max)	Brass
829-1840	Union Nut	1" (3,000 PSIG max)	Brass
830-6498	Union Connector	½" MPT (3,000 PSIG max)	Brass
830-6163	Reducing Adapter	½" MPT x ¼" FPT (3,000 PSIG max)	Brass
830-6164	Reducing Adapter	½" MPT x ¼" FPT (4,500 PSIG max)	Stainless Steel
830-9805	Reducing Adapter	½" MPT x ¾" FPT (3,000 PSIG max)	Brass
830-6155	½" Tee	½" FPT (3,000 PSIG max)	Brass
830-6499	½" Male Nipple	½" MPT x ¾" (3,000 PSIG max)	Brass
550-0220	¼" Tube Fitting	¼" Tube x ¼" MPT (6,000 PSIG max)	Stainless Steel
550-0165	6mm Tube Fitting	6mm Tube x ¼" MPT (6,000 PSIG max)	Stainless Steel
830-5371	½" Tube Fitting	½" Tube x ½" MPT (3,000 PSIG max)	Brass

## Pipe Size - Inches

### Pressure Drop per 100 Feet of Pipe

10% of Applied Pressure  
5% of Applied Pressure

### Pipe Size - Inches

⅛, ¼, ⅜, ½  
¾, 1, 1¼, 1½, 2, 2½, 3

Applied Pressure psig	Derived Units = Pressure Drop per 100 Feet of Pipe (CFH)										
	⅛	¼	⅜	½	¾	1	1¼	1½	2	2½	3
5	30	72	162	294	396	780	1,620	2,400	4,800	8,100	14,400
10	48	102	234	462	660	1,260	2,640	3,840	7,500	12,000	22,200
20	78	180	396	780	1,110	2,100	4,500	6,600	12,900	21,000	36,000
40	150	330	720	1,380	2,040	3,720	8,100	12,000	23,100	38,400	66,000
60	210	480	1,080	2,040	3,000	5,580	11,700	17,400	33,600	54,000	96,000
80	282	630	1,380	2,640	3,900	7,200	15,300	23,400	43,200	72,000	126,000
100	348	780	1,740	3,240	4,800	9,000	18,900	28,200	54,000	87,000	156,000
150	516	1,200	2,460	4,800	6,900	13,200	27,600	40,800	81,000	132,000	234,000
200	690	1,560	3,480	6,480	9,300	17,400	37,200	54,600	105,000	168,000	300,000
250	870	1,980	4,380	8,100	12,000	22,200	46,200	69,000	132,000	210,000	3,660,000