

FIGURE 760 SERIES

SIZES ½" – 1"

PRESSURES to 400 PSIG at 400°F

- Special Teflon® seat, making bubble-tight seals possible to over 90% of set pressures per spec API 527; not applicable to steam.
 - Adjustable blowdown ring
 - Cleaned and packaged for use in O₂ service in compliance with the CGA specification G-4.1
- Additional cleaning specifications:
- 4WPI-SW70003
 - ES.660.503
 - GS-38
 - GS-40



APPLICATION DATA

- Especially recommended where corrosive or expensive gases benefit from stainless steel construction.
- Stationary Cryogenic storage tanks
- Dual Safety relief systems
- Overpressure relief of tanks, pipelines, vessels, pumps
- Air and gas compressors

APPLICABLE CODES

- CGA S-1.2 and S-1.3.
- V-4301 (Cryogenic Non-Oxygen)
- V-4401 (Oxygen)
- ASME sec.VIII
- API 527
- AD-Merkblatt A2
- CRN 0G0591.9C

Sizing Guidelines

Testing Specifications

Installation/Maintenance

OPTIONS

- Large and Extra Large Capacity (Consult factory for flow rates)
- BSP threads are available on most sizes.
- Lever operation
- Electropolish

MODELS

- 760 Stainless Steel ASME w/O₂ cleaning

DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

Inlet	Outlet	A	B	C	Weight	Max. Psi
½ (15)	¾ (20)	5 ¹⁵ / ₁₆ (150.8)	2 ²¹ / ₃₂ (67.5)	1 ¹ / ₁₆ (49.2)	2 (0.91)	400
½ (15)	1 (25)	6 ⁹ / ₁₆ (166.7)	2 ²⁹ / ₃₂ (69.1)	1 ¹ / ₁₆ (39.7)	3 (1.36)	400
¾ (20)	¾ (20)	6 ⁹ / ₁₆ (157.2)	2 ⁹ / ₁₆ (65.1)	1 ¹ / ₁₆ (33.3)	2 (0.91)	150
¾ (20)	1 (25)	6 ⁹ / ₁₆ (166.7)	2 ²⁹ / ₃₂ (69.1)	1 ¹ / ₁₆ (39.7)	3 (1.36)	400
1 (25)	1¼ (32)	7 ¹³ / ₁₆ (198.4)	3 ³ / ₃₂ (77.0)	1 ¹³ / ₁₆ (46.0)	5 (2.27)	400

ORDERING CODE

MODEL NUMBER (Must be 3 Digits)	CAP	ORIFICE	INLET SIZE	OUTLET SIZE	—	VALVE SERVICE (For Set Valves)	SET PRESSURE (Must be 3 Digits)
example: 760	N	B	D	E	—	A	025
760-Bronze ASME w/O ₂ cleaning	N – Plain Cap E – Open Lever	A B	C – ½ D – ¾ E – 1	D – ¾ E – 1 F – 1¼	—	A – Air / Gas Sec. VIII Z – Other	Set Pressure

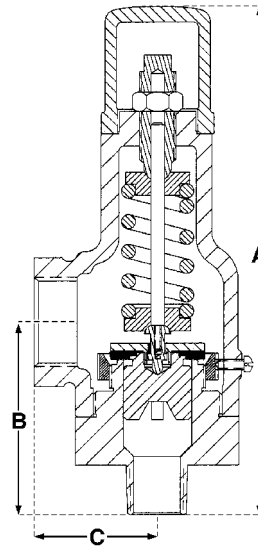
FIGURE 760 SERIES

SPECIFICATION

The valve shall meet the ASME Section VIII code for air and gas services. It shall be "UV" National Board Certified. The valve shall have an adjustable blowdown ring. The valve shall have a Teflon(r) seat and conform to API 527. The valve shall be cleaned and packaged for use in Oxygen service in compliance with CGA specification G-4.1. The valve shall be 316SS except the spring (17-7PH SS).

MATERIALS OF CONSTRUCTION

ShellInvestment Cast 316SS, A.S.M.E SA-351
 BaseInvestment Cast 316SS, A.S.M.E SA-351
 Trim316SS, A.S.M.E. SA-479
 SpringStainlessSteel
 17-7 PH A.S.T.M. A-313, Type 631



AIR CAPACITY TABLE

Discharge capacities in cubic feet per minute of air at 10% or 3 PSI, whichever is greater, overpressure.

Inlet Sizes Inches	1/2	3/4	1	Inlet Sizes Inches	1/2	3/4	1	Inlet Sizes Inches	1/2	3/4	1
Outlet Sizes Inches	3/4	1	1-1/4	Outlet Sizes Inches	3/4	1	1-1/4	Outlet Sizes Inches	3/4	1	1-1/4
Seat Diameter Inches	A	B		Seat Diameter Inches	A	B		Seat Diameter Inches	A	B	
Flow Area	0.118	0.204		Flow Area	0.118	0.204		Flow Area	0.118	0.204	
Set Pressure				Set Pressure				Set Pressure			
10	36	63		140	220	381		270	407	704	
15	43	74		145	228	393		275	414	716	
20	48	85		150	235	406		280	422	729	
25	55	96		155	242	418		285	429	741	
30	62	108		160	249	431		290	436	754	
35	70	120		165	256	443		295	443	766	
40	77	133		170	264	456		300	450	779	
45	84	145		175	271	468		305	458	791	
50	91	157		180	278	480		310	465	803	
55	98	170		185	285	493		315	472	816	
60	105	182		190	292	505		320	479	828	
65	113	195		195	299	518		325	486	841	
70	120	207		200	307	530		330	493	853	
75	127	220		205	314	543		335	501	866	
80	134	232		210	321	555		340	508	878	
85	141	244		215	328	567		345	515	890	
90	149	257		220	335	580		350	522	903	
95	156	269		225	343	592		355	529	915	
100	163	282		230	350	605		360	537	928	
105	170	294		235	357	617		365	544	940	
110	177	307		240	364	629		370	551	952	
115	184	319		245	371	642		375	558	965	
120	192	331		250	378	654		380	565	977	
125	199	344		255	386	667		385	572	989	
130	206	356		260	393	679		390	580	1002	
135	213	369		265	400	692		395	587	1015	
								400	594	1027	