

FIGURE 760/765 SERIES RXSO-S STAINLESS STEEL

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.
- Overpressure relief of tanks, pipelines, vessels, pumps
- Stationary Cryogenic storage tanks
- Dual Safety relief systems
- 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

OPTIONS

- Large and Extra Large Capacity
- BSP threads are available on most sizes.
- Lever operation
- Electropolish
- Test Reports available

MODELS

- 760 Stainless Steel ASME w/O₂ cleaning
- 765 Stainless Steel PED w/O₂ cleaning

DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

Inlet	Orifice	Outlet	Part #	Max PSI (barg)	Dimensions			Wgt.
					A	B	C	
1/2 (15)	A	3/4 (20)	760NACD	400 (27.6)	5 7/8 (150)	2 7/8 (65)	1 5/8 (34)	2 (.91)
3/4 (20)	A	3/4 (20)	760NADD	400 (27.6)	5 7/8 (150)	2 7/8 (65)	1 5/8 (34)	2 (.91)
1/2 (15)	A	1 (25)	760NACE	400 (27.6)	6 1/2 (166)	2 13/16 (71)	1 11/16 (43)	3 (1.36)
3/4 (20)	A	1 (25)	760NADE	400 (27.6)	6 1/2 (166)	2 13/16 (71)	1 11/16 (43)	3 (1.36)
1/2 (15)	B	1 (25)	760NBCE	400 (27.6)	7 3/8 (188)	2 7/8 (74)	1 11/16 (42)	4 (1.82)
3/4 (20)	B	1 (25)	760NBDE	400 (27.6)	7 3/8 (188)	2 7/8 (74)	1 11/16 (42)	4 (1.82)
1 (25)	B	1 (25)	760NBEE	400 (27.6)	7 3/8 (188)	2 7/8 (74)	1 11/16 (42)	4 (1.82)
1/2 (25)	B	1 1/4 (32)	760NBCF	400 (27.6)	7 1/2 (190)	3 (76)	1 7/8 (48)	5 (2.27)
3/4 (20)	B	1 1/4 (32)	760NBDF	400 (27.6)	7 1/2 (190)	3 (76)	1 7/8 (48)	5 (2.27)
1 (25)	B	1 1/4 (32)	760NBEF	400 (27.6)	7 1/2 (190)	3 (76)	1 7/8 (48)	5 (2.27)

NOTE: 765 (PED) Valve Combinations are the same as the 760's listed above.

CODE SELECTION CHART

Model			Cap	Orifice	Inlet Size	Outlet Size	Valve Service	Set Pressure		
7	6	0	N	B	D	E	- A	0	2	5
1	2	3	4	5	6	7	8	9	10	11

Model - Position 1, 2 & 3 760 = ASME w/O ₂ cleaning 765 = PED w/O ₂ cleaning
Cap - Position 4 N = Plain Cap E = Open Lever

Orifice - Position 5 A B

Inlet Size - Position 6 C = 1/2 D = 3/4 E = 1

Outlet Size - Position 7 D = 3/4 E = 1 F = 1 1/4
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Valve Service - Position 8 A = Air/Gas Sect. VIII E = Air/Gas PED Z = Other
Set Pressure - Position 9, 10 & 11 _ _ _ = Actual Setting

FIGURE 760/765
SERIES

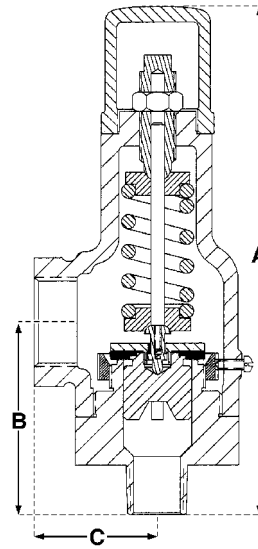
FIGURE 760/765 SERIES RXSO-S STAINLESS STEEL

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 (17-7 PH SS).

MATERIALS OF CONSTRUCTION

ShellInvestment Cast 316SS, ASME SA-351
 BaseInvestment Cast 316SS, ASME SA-351
 Trim316SS, ASME SA-479
 SpringStainlessSteel
 17-7 PH ASTM 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
Outlet Sizes Inches	3/4	1	1 1/4
Seat Diameter Inches	A	B	
Flow Area	0.118	0.204	
Set Pressure			
10	36	63	
15	43	74	
20	48	85	
25	55	96	
30	62	108	
35	70	120	
40	77	133	
45	84	145	
50	91	157	
55	98	170	
60	105	182	
65	113	195	
70	120	207	
75	127	220	
80	134	232	
85	141	244	
90	149	257	
95	156	269	
100	163	282	
105	170	294	
110	177	307	
115	184	319	
120	192	331	
125	199	344	
130	206	356	
135	213	369	

Inlet Sizes Inches	1/2	3/4	1
Outlet Sizes Inches	3/4	1	1 1/4
Seat Diameter Inches	A	B	
Flow Area	0.118	0.204	
Set Pressure			
140	220	381	
145	228	393	
150	235	406	
155	242	418	
160	249	431	
165	256	443	
170	264	456	
175	271	468	
180	278	480	
185	285	493	
190	292	505	
195	299	518	
200	307	530	
205	314	543	
210	321	555	
215	328	567	
220	335	580	
225	343	592	
230	350	605	
235	357	617	
240	364	629	
245	371	642	
250	378	654	
255	386	667	
260	393	679	
265	400	692	

Inlet Sizes Inches	1/2	3/4	1
Outlet Sizes Inches	3/4	1	1 1/4
Seat Diameter Inches	A	B	
Flow Area	0.118	0.204	
Set Pressure			
270	407	704	
275	414	716	
280	422	729	
285	429	741	
290	436	754	
295	443	766	
300	450	779	
305	458	791	
310	465	803	
315	472	816	
320	479	828	
325	486	841	
330	493	853	
335	501	866	
340	508	878	
345	515	890	
350	522	903	
355	529	915	
360	537	928	
365	544	940	
370	551	952	
375	558	965	
380	565	977	
385	572	989	
390	580	1002	
395	587	1015	
400	594	1027	

FIGURE 760/765
SERIES