

Models 230, 330, 330S and 333S



KUNKLE

Features

- **Lightweight aluminum construction.** Resistant to environmental and internal corrosion.
- **Model 230** is direct spring-loaded design with synthetic disc insert.
- **Model 330** series incorporates a differential mechanism which maintains a predetermined seat-contact load.
- **The full spring load is never imparted** to synthetic disc insert (models 330, 330S, and 333S only).
- **Seat tightness increases to a maximum** as inlet pressure approaches the opening pressure.

Model Descriptions

Model 230: 1/4-inch Male NPT - 300/1500 psig.

Model 330: 1/4-inch Male NPT - 1000/5500 psig. Aluminum housing, SS trim (seat and disc with synthetic insert). Sidewall discharge.

Model 330S: Same as 330 except SS body suitable for 1000/6500 psig.

Model 333S: Same as 330S except 1/2-inch Female NPT side outlet. Pressure-tight cap.

Applications

- Multi-stage high pressure compressors, intercoolers and aftercoolers.
- High pressure receivers and storage bottles.
- Thermal expansion relief.



Model 330

Pressure and Temperature Limits

Model 230:

300 - 1500 psig
-20° - 185°F

Model 330:

1000 - 5500 psig
-20° - 185°F

Model 330S:

1000 - 6500 psig
-20° - 185°F

Model 333S:

1000 - 6500 psig
-20° - 185°F

Maximum back pressure 100 psig.

Models 230, 330, 330S and 333S

Parts and Materials

Model 230

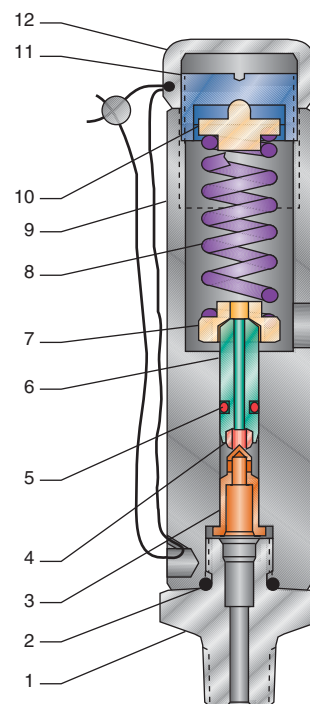
No.	Part Name	Materials
1	Nozzle	SS SA479-304
2	O-ring	Teflon®
3	Bottom Disc	SS A582-303
4	Insert	Kynar®
5	Seal	Teflon®
6	Top Disc	SS A582-303
7	Spring Step	Aluminum B211 Alloy 2024 T351
8	Spring	Steel A231, Aluminum Coated
9	Cap	Aluminum B211 Alloy 2024 T351
10	Top Spring Plate	Aluminum B211 Alloy 2024 T351
11	Compression Screw	Aluminum B211 Alloy 2024 T351
12	Hood	Aluminum B211 Alloy 2024 T351

Models 330 and 330S

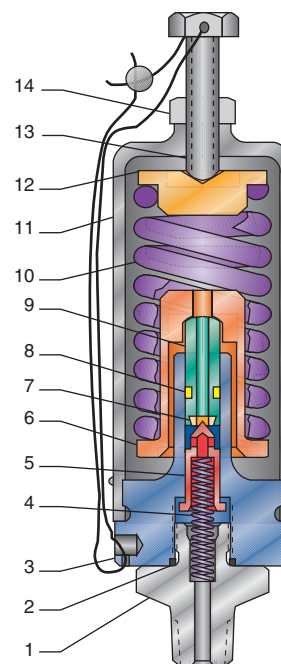
No.	Part Name	Materials
1	Nozzle	SS SA479-304
2	O-ring	Teflon®
3	Body	Aluminum SB211 Alloy 2024 T351 ¹
4	Bottom Spring	SS A313-302
5	Bottom Disc	SS A582-303
6	Bottom Spring Step	Aluminum B211 Alloy 2024 T351
7	Insert	Kynar®
8	Seal	Teflon®
9	Top Disc	SS A582-303
10	Top Spring	Steel A231 Aluminum Coated
11	Cap	Aluminum SB-211 Alloy 6061-T6
12	Top Spring Step	Aluminum B211 Alloy 2024 T351
13	Compression Screw	SS A582-303
14	Jam Nut	SS A582-303

Note

1. Model 330S, SS SA479-304.



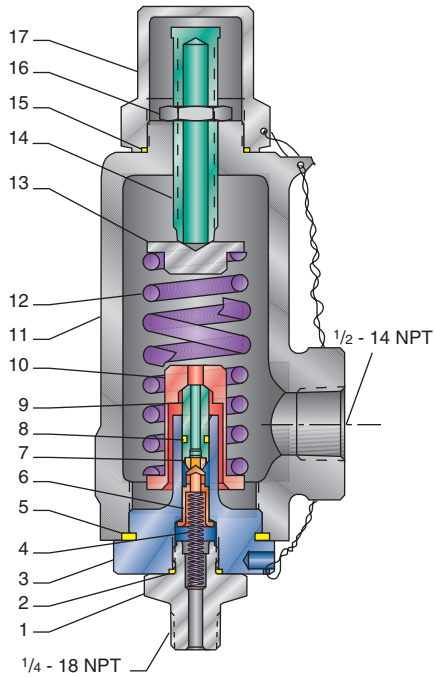
Model 230



Models 330 and 330S

Models 230, 330, 330S and 333S

Parts and Materials



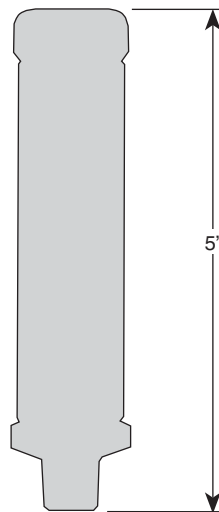
Model 333S

Model 333S

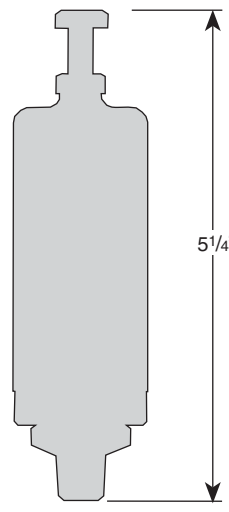
No.	Part Name	Material
1	Nozzle	SS SA479-304
2	O-ring	Teflon®
3	Body	SS SA479-304
4	Bottom Spring	SS A313-302
5	O-ring	BUNA-N
6	Bottom Disc	SS A582-303
7	Insert	Kynar®
8	Seal	Teflon®
9	Top Disc	SS A582-303
10	Spring Step - Bottom	Aluminum B211 Alloy 2024-T351
11	Bonnet	Aluminum SB26 Alloy 356-T6
12	Top Spring	Steel A231 Aluminum Coated
13	Spring Step - Top	Aluminum B211 Alloy 2024-T351
14	Compression Screw	SS A479-316
15	O-ring	BUNA-N
16	Jam Nut	SS A479-316
17	Cap	Aluminum B211 Alloy 2024-T351

Specifications

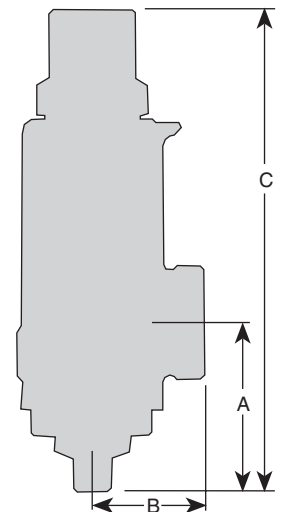
Size (Model 333S)		Dimensions, in			Weight (lb)
Inlet	Outlet	A	B	C	
1/4" and 1/2"	1/2" and 3/4"	27/8	17/8	7 ¹¹ / ₁₆	1



Model 230



Models 330 and 330S



Model 333S

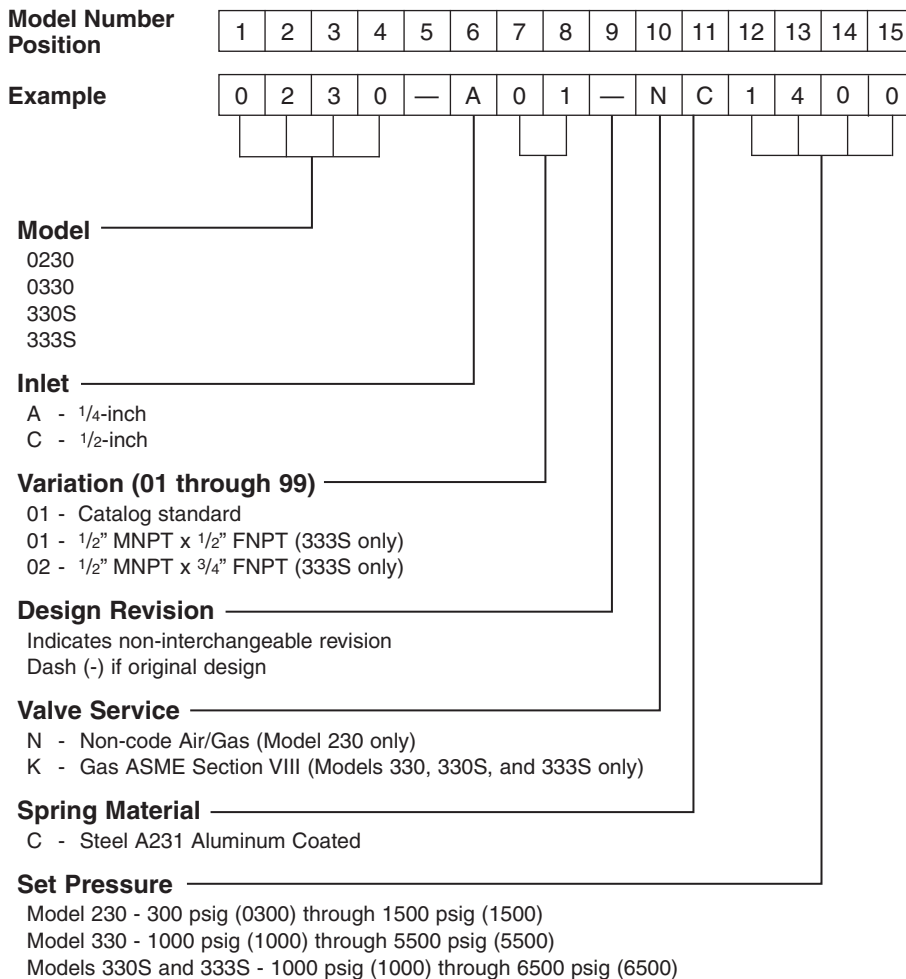
Models 230, 330, 330S and 333S

Models 330, 330S, 333S National Board Certified Capacity

Capacities - SCFM Air, 10% Accumulation

Model 230		Models 330, 330S, 333S		Models 330, 330S, 333S	
Set Pressure psig	Capacity (Non-code)	Set Pressure psig	Capacity	Set Pressure psig	Capacity
300	14	1000	29	2750	79
500	23	1100	32	3000	86
750	34	1200	35	3500	100
1000	45	1300	38	4000	115
1250	56	1400	40	4500	129
1500	67	1500	43	5000	143
		1750	50	5500	158
		2000	58	6000	172
		2250	65	6500	186
		2500	72		

Model Number/Order Guide



Facility Phone: 828-669-3700

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