tyco

ASME Section VIII, Gas, 'UV' National Board Certified. Model 230 is Noncode.

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 seatcontact 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.



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.

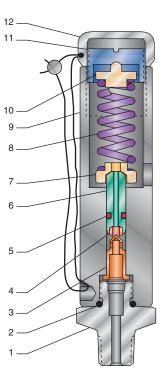
Parts and Materials

Мо	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		

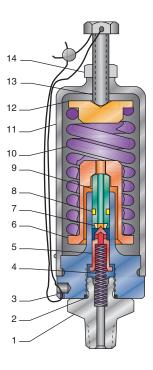
Мо	Models 330 and 330S			
No.	Part Name	Materials		
1	Nozzle	SS SA479-304		
2	O-ring	Teflon®		
3	Body	Aluminum SB211 Alloy 2024 T351 ¹		
4	Bottom Spring	SS A313-302		
5	Bottom Disc	SS A582-303		
6	Bottom Spring Step	Aluminum B211 Alloy 2024 T351		
7	Insert	Kynar®		
8	Seal	Teflon®		
9	Top Disc	SS A582-303		
10	Top Spring	Steel A231 Aluminum Coated		
11	Сар	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.

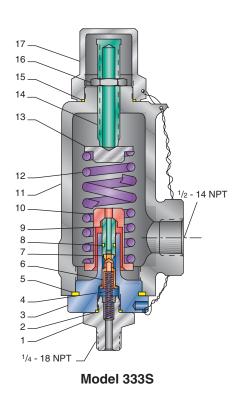


Model 230



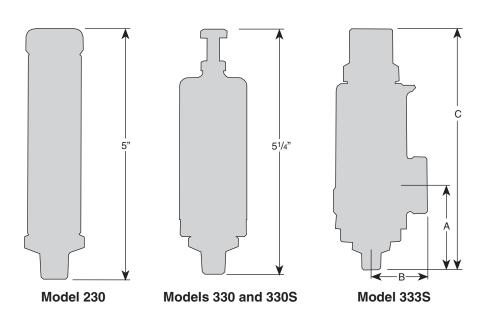
Models 330 and 330S

Parts and Materials



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	Сар	Aluminum B211 Alloy 2024-T351		

Specifications						
Size (Model 333S)		——— Dimensions, in ———			Weight	
Inlet	Outlet	Α	В	С	(lb)	
1/4" and 1/2"	1/2" and 3/4"	27/8	17/8	711/16	1	



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

Mod	el 230	Models 330.	10% Accumulation 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 Model Number 12 13 14 2 3 4 5 6 8 10 11 15 **Position** Example 0 2 3 0 Α 0 Ν С 1 4 0 0 Model -0230 0330 330S 333S Inlet A - 1/4-inch C - 1/2-inch Variation (01 through 99) -01 - Catalog standard 01 - 1/2" MNPT x 1/2" FNPT (333S only) 02 - 1/2" MNPT x 3/4" FNPT (333S only) **Design Revision** -Indicates non-interchangeable revision Dash (-) if original design Valve Service -N - Non-code Air/Gas (Model 230 only) K - Gas ASME Section VIII (Models 330, 330S, and 333S only) **Spring Material -**C - Steel A231 Aluminum Coated

Facility Phone: 828-669-3700

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Models 330S and 333S - 1000 psig (1000) through 6500 psig (6500)

Model 230 - 300 psig (0300) through 1500 psig (1500) Model 330 - 1000 psig (1000) through 5500 psig (5500)

Set Pressure -