

KUNKLE SAFETY AND RELIEF PRODUCTS

MODELS 541, 542 AND 548

ASME Section VIII, Air/Gas, "UV" National Board Certified Safety Valve



Model descriptions

Model 541: 1/4" or 1/2" Male NPT inlet. Brass body and seat with BUNA-N flat seal. Exceptional seat tightness performance.

Model 542: Same as model 541 except Viton® flat seal.

Model 548: Same as model 541 except Stainless Steel (SS) ball seal.

Features

- High capacity with small size.
- Factory sealed to prevent tampering or disassembly.
- Each Kunkle valve is tested and inspected for pressure setting and leakage.

Technical data

Pressure and Temperature Limits

Model 541:

3 to 200 psig [0.2 to 13.8 barg] -40° to 200°F [-40° to 93°C]

Model 542:

3 to 200 psig [0.2 to 13.8 barg] -10° to 300°F [-23° to 149°C]

Model 548:

3 to 400 psig [0.2 to 27.6 barg] -60° to 400°F [-34° to 204°C]

Applications

- Small to medium size, single and multi-stage, air compressors, intercoolers, aftercoolers, instrument/control air lines and systems.
- Air tanks/receivers and pressurized equipment.

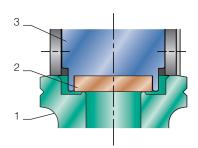


Parts and Materials

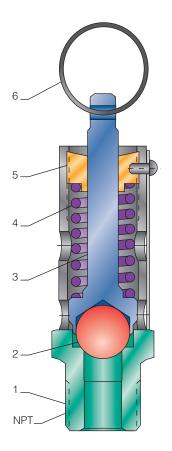
Models 541, 542 and 548				
No.	Part Name	Materials		
1	Body	Brass, B16		
2	Seat ¹	Model number changes with seat material		
3	Disc Holder	Brass, B16		
4	Spring	SS, A313-631		
5	Compression Screw	Brass, B16		
6	Lift Ring	SS, A313		

Note:

1. Seat material: Model 541 BUNA-N, Model 542 Viton® A, and Model 548 SS, A756 440C.



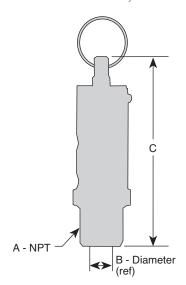
Models 541 and 542 Seat Configuration



Model 548 Seat Configuration

Specifications								
Size	Weight							
Inlet	Α	В	С	lb (kg)				
1/4"	1/4 - 18	0.295 [7.5]	2.88 [73.2]	0.2 (0.1)				
1/2"	1/2 - 14	0.422 [10.7]	3.62 [91.9]	0.5 (0.23)				

Dimensions are for reference only.



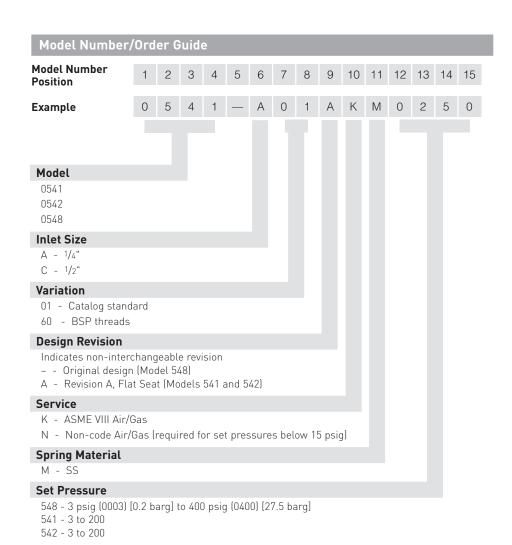
Capacities

ASME Section VIII Air, (U.S., SCFM)					
Set Pressure	Inlet				
(psig)	1/4"	1/2"			
3	12	23			
5	16	31			
10	23	47			
15	31	62			
20	37	73			
25	42	84			
50	70	139			
75	97	194			
100	125	249			
125	152	304			
150	180	359			
175	207	414			
200	235	469			
225	262	524			
250	290	579			
275	317	634			
300	345	689			
325	372	744			
350	400	799			
375	427	854			
400	455	909			

ASME Section VIII Air, [Metric, Nm³/h]							
Set Pressure	Inlet						
(psig)	7mm	15mm					
1.7	67	135					
3.5	114	227					
5.0	152	304					
7.0	203	407					
9.0	255	509					
13.0	357	715					
15.0	409	818					
17.0	460	920					
19.0	511	1023					
21.0	563	1126					
23.0	614	1228					
25.0	665	1331					
27.0	717	1434					
27.5	730	1459					

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VALVES & CONTROLS

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