Models 189, 363 and 389

ASME Section VIII, Air/Gas Cryogenic, 'UV' National ASME Section VIII, Air/Gas Cry Board Certified, Safety Valves

Features

- · Unique three-piece disc assembly (with Teflon® seat/seal) offers superior 'leak-free' performance over the entire pressure/temperature operating range.
- Control ring offers precise adjustment of blowdown.
- · Pivot between disc and spring corrects for all misalignment and compensates for spring side thrust.
- Every valve 100% tested/inspected for set pressure, blowdown and leakage.
- · All adjustments are factory sealed to prevent tampering and disassembly.

Model Descriptions

Model 189: Bronze housing with SS trim (nozzle and disc) with Teflon® seat/seal in disc. Plain lift lever.

Model 189C: Same as Model 189 except pressure tight cap for gas service only. Suitable for maximum back pressure of 50 psig.

Model 189P: Same as Model 189 except pressure tight packed lift lever. Suitable for maximum back pressure of 50 psig.

Model 363: Bronze housing with SS trim (nozzle and disc) with Teflon® seat/seal in disc. Plain lift lever. 1000 psig maximum set pressure.

Model 363C: Same as Model 363 except pressure tight cap for gas service only. Suitable for maximum back pressure of 50 psig. 1000 psig maximum set pressure.

Model 363P: Same as Model 363 except pressure tight packed lift lever. Suitable for maximum back pressure of 50 psig. 1000 psig maximum set pressure.

Model 389C: All SS with Teflon® seat/seal in disc. Pressure tight cap for gas service only. Suitable for maximum back pressure of 50 psig.





Model 389P: Same as Model 389C except pressure tight packed lift lever. Suitable for maximum back pressure of 50 psig.

Applications

- · Cryogenic 'cold' and liquefied air, oxygen and gas service.
- Multi-stage air and gas compressors, intercoolers, aftercoolers and receivers.
- · Thermal expansion relief and/or full rated capacity discharge.
- · Air, gas and liquefied gas lines and systems.

Pressure and Temperature Limits Model 363:

50 to 1000 psig -320° to 350°F

Model 189:

1000 to 2500 psig -320° to 350°F

Model 389:

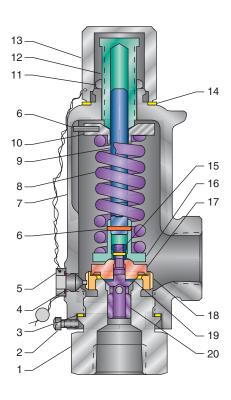
50 to 2500 psig -320° to 350°F

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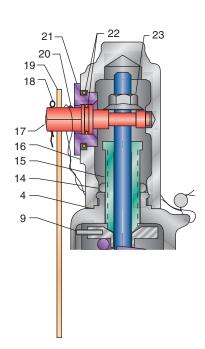
Models 189, 363 and 389

Parts and Materials

Models 189C, 363C and 389C					
No.	Part Name	189C and 363C	389C		
1	Nozzle	SS SA479-316	SS SA479-316		
2	Body Lock Screw	Brass B16	SS Commercial		
3	Body Gasket	Teflon®	Teflon [®]		
4	Lock Screw Gasket	Teflon®	Teflon®		
5	Lock Screw-Ring	Brass B16	SS A582-303		
6	Spring Pin ¹	SS Commercial	SS Commercial		
7	Body	Bronze SB-62	SS SA351-CF8M		
8	Spring	SS A313-304	SS A313-304		
9	Stem	SS A582-303	SS A582-303		
10	Top Spring Step	SS A582-303	SS A582-303		
11	Jam Nut	Brass B16	SS A582-303		
12	Compression Screw	SS A582-303	SS A582-303		
13	Cap	Brass B16	SS SA479-316		
14	Cap Gasket	Teflon®	Teflon®		
15	Retainer Nut	SS 582-303	SS A582-303		
16	Bottom Spring Step	SS A582-303	SS A582-303		
17	Disc	SS A582-303	SS A582-303		
18	Regulator Ring	Brass B16	SS A473-CF8		
19	Seat	Teflon [®]	Teflon [®]		
20	Guide	SS A582-303	SS A582-303		



No.	Part Name	189P, 363P	389P
9	Spring Pin	SS Commercial	SS Commercial
10	Body	Bronze SB-62	SS SA351-CF8M
11	Spring	SS A313-304	SS A313-304
12	Stem	SS A582-303	SS A582-303
13	Spring Step - Top	SS A582-303	SS A582-303
14	Jam Nut	Brass B16	SS A582-303
15	Compression Screw	SS A582-303	SS A582-303
16	Cap	Bronze B584 Alloy 84400	SS A743-CF8M
17	Lift Cam	SS A473-CF8M	SS A743-CF8M
18	Cotter Pin	Steel Commercial	Steel Commercial
19	Lever	Steel A108, Zinc Plated	Steel A108, Zinc Plated
20	Drive Screw	SS Commercial	SS Commercial
21	Retainer Nut	Brass B16	SS A479-316
22	O-ring	BUNA-N	BUNA-N
23	Lift Nut	Steel A108, Zinc Plated	Steel A108, Zinc Plated



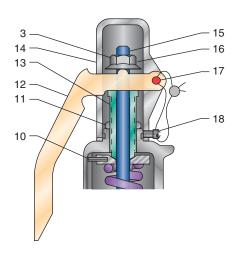
Note

- Upper spring pin available on Models 189C and 389C.
- Teflon® is a registered trademark of E.I. du Pont de Nemours Company.

Kunkle Safety and Relief Products

Models 189, 363 and 389

Parts and Materials

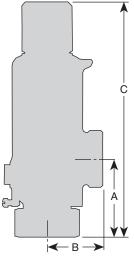


Models 189 and 363 With Plain Lever				
No.	Part Name	189, 363		
10	Spring Pin ¹	SS Commercial		
11	Jam Nut	Brass B16		
12	Lever	Steel A109, Zinc Plated		
13	Compression Screw	Brass B16		
14	Сар	Brass B176 Alloy Z30A		
15	Stem	SS A582-303		
16	Lift Nut	Steel A108, Zinc Plated		
17	Rivet	Steel Commercial		
18	Lock Screw	SS Commercial		

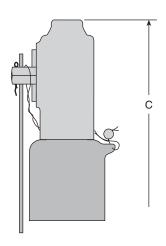
Note

1. Spring pin available on Models 189 and 389 only.

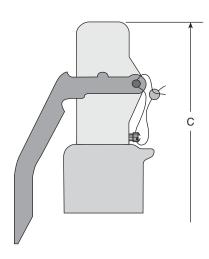
Specifications							
Size		Dimensions, in				Weight	
Inlet	Outlet	Α	В	C Cap	C Plain Lever	C Packed Lever 'P'	(lb)
1/2" or 3/4"	3/4"	27/16	13/4	73/16	9	81/2	5



Models 189 and 363

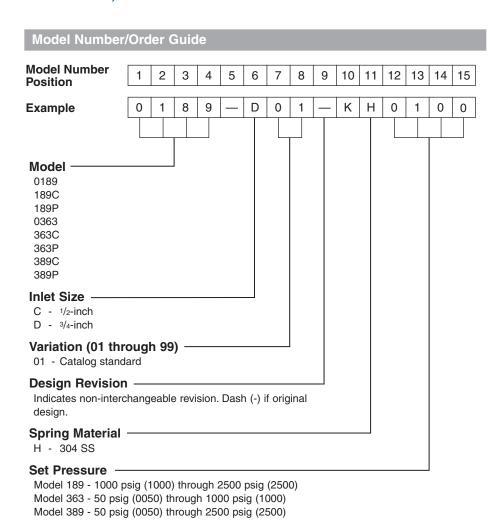


Models 189P, 363 and 389P (packed lift lever)



Models 189 and 363 (plain lever)

Models 189, 363 and 389



Capacities for	ASME	Section	VIII
Air. (SCFM)			

All, (SCFIVI)		
Set Pressure (psig)	Capacity (SCFM)	
50	38	
100	68	
150	98	
200	128	
250	158	
300	188	
350	218	
400	248	
450	278	
500	308	
550	338	
600	368	
650	397	
700	427	
750	457	
800	487	
850	517	
900	547	
950	577	
1000	607	
1050	637	
1100	667	
1150	697	
1200	727	
1250	757	
1300	787	
1350	817	
1400	847	
1450	877	
1500	907	
1550	937	
1600	967	
1650	997	
1700	1027	
1750	1057	
1800	1087	
1850	1117	
1900		
1950	1146 1176	
2000	1206	
2050	1236	
2100 2150	1266 1296	
2200	1326	
2250	1356	
2300	1386	
2350	1416	
2400	1446	
2450	1476	
2500	1506	

Facility Phone: 828-669-3700

Tyco Valves & Controls

www.kunklevalve.com

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