

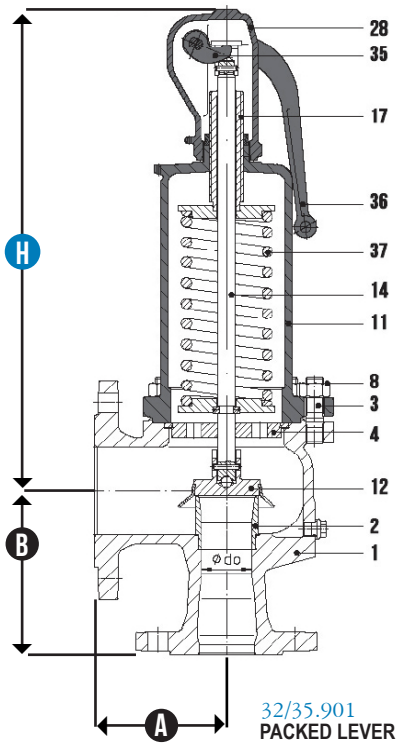
ANSI

# FLANGED SAFETY RELIEF VALVES-900 SERIES

## STEEL BODY - STAINLESS STEEL TRIM



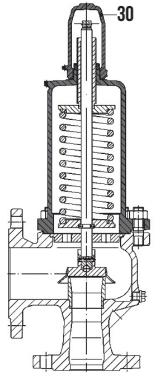
ASME VIII



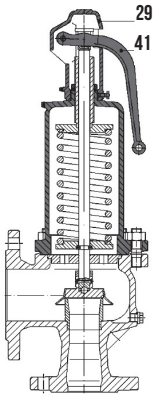
### BILL OF MATERIALS

PART	DESCRIPTION	MATERIAL CODES
1	BODY	SA 216 WCB
2	SEAT	SA 479 Gr. 316 TI
3	STUD	SA 193 B7
4	SPINDLE GUIDE	≤ 2": AISI 420 > 2": SA 395 / AISI 440
8	HEXAGON NUT	SA 194 2H
11	BONNET	SA 395
12	DISC	AISI 440
14	SPINDLE	AISI 420
17	ADJUSTING SCREW	AISI 420
28,29,30	CAP	SA 395
35	LIFT FORK	SA 395
36,41	LIFTING LEVER	SA 395
37	SPRING	AISI 6150, AISI 9254

32/35.911  
GAS TIGHT CAP



32/35.912  
OPEN LEVER



DESIGN				DIMENSIONS AND WEIGHTS				PRESSURE TEMPERATURE RATINGS					
VALVE SIZE [ INCH ]	ORIFICE AREA [ INCH <sup>2</sup> ]	ORIFICE DIAMETER [ MM ]	ORIFICE LETTER	CENTER TO FACE [ INCH ]		HEIGHT [ INCH ]	WEIGHT [ LBS. ]	SET PRESSURE RANGE [ PSIG ]		TEMPERATURE RANGE ACC. TO ASME [ °F ]			
				A INLET	B OUTLET			STANDARD H	MIN.	MAX. (1)	ANSI FLANGE CLASS		
							MIN.	MAX. (1)	INLET RF	OUTLET RF	MIN.	MAX.	
1" x 2"	0.644	22.5	E	4 1/2"	4 1/8"	11"	26	15	493	#150 (2) OR #300 (2)	#150	-20	+800
1 1/2" x 2"	1.024	29	F	4 3/4"	4 7/8"	13"	40		493				
1 1/2" x 3"	1.667	36	H	4 7/8"	5 1/8"	15.4"	51		493				
2" x 3"	2.576	45	J	4 7/8"	5 3/8"	17"	66		493				
3" x 4"	4.383	58.5	L	6 1/2"	6 1/8"	21.5"	103		406				
4" x 6"	10.304	90	M	7 1/4"	7"	27"	176		276				
6" x 8"	13.678	106	Q	9 1/2"	9 7/16"	33.3	308		392				

(1) FOR FLANGE CLASS 150# THE PRESSURE TEMPERATURE RATINGS ACCORDING TO ASME ANSI B16.34 APP LY.

(2) (32.9XX) 150# x 150# / (35.9XX) 300 # x 150#



**ADVANCE VALVE** INC.  
Specialists in the supply and repair of safety relief valves

PHONE: 636.343.8525  
TOLL FREE: 1.800.875.8716  
FAX: 636.343.9509

WWW.ADVANCEVALVE.COM  
EMAIL: MAIL@ADVANCEVALVE.COM  
ASME SEC I. & VIII Code. National Board Certified

# ASME FLANGED SAFETY RELIEF VALVES - 900 SERIES

▶ STEEL BODY - STAINLESS STEEL TRIM



## SATURATED STEAM CAPACITY A.S.M.E (VIII) "UV" AT 10% OVER PRESSURE (LB/HR.)

SET PRESSURE (PSIG)	1 x 2	1.5 x 2	1.5 x 3	2 x 3	3 x 4	4 x 6	6 x 8
15	510	1,326	2,044	3,192	5,395	12,770	17,713
20	588	1,529	2,356	3,680	6,220	14,723	20,422
25	666	1,732	2,668	4,168	7,045	16,676	23,140
30	1,238	2,055	3,167	4,947	8,361	19,791	27,452
35	1,381	2,292	3,532	5,518	9,325	22,073	30,782
40	1,524	2,529	3,897	6,088	10,289	24,355	33,782
45	1,667	2,766	4,263	6,659	11,253	26,637	36,948
50	1,809	3,003	4,628	7,229	12,217	28,919	40,113
75	2,523	4,188	6,454	10,081	17,038	40,329	55,939
100	3,237	5,373	8,279	12,933	21,858	51,739	71,766
125	3,951	6,558	10,105	15,786	26,679	63,149	87,592
150	4,665	7,742	11,931	18,638	31,499	74,559	103,419

1) CAPACITIES BELOW 30 PSIG SET PRESSURE ARE CALCULATED AT 3 PSIG OVERPRESSURE.

## AIR CAPACITY A.S.M.E (VIII) "UV" AT 10% OVER PRESSURE (SCFM)

SET PRESSURE (PSIG)	1 x 2	1.5 x 2	1.5 x 3	2 x 3	3 x 4	4 x 6	6 x 8
15	182	472	727	1,136	1,920	4,546	6,305
20	209	554	839	1,310	2,214	5,240	7,269
25	237	616	950	1,484	2,508	5,936	8,233
30	441	732	1,127	1,761	2,976	7,044	9,771
35	492	816	1,257	1,964	3,319	7,857	10,898
40	542	900	1,387	2,167	3,662	8,669	12,025
45	593	985	1,517	2,370	4,006	9,481	13,151
50	644	1,069	1,647	2,573	4,349	10,293	14,278
75	898	1,491	2,297	3,588	6,064	14,355	19,911
100	1,152	1,912	2,947	4,604	7,780	18,416	25,544
125	1,406	2,334	3,597	5,619	9,496	22,477	31,178
150	1,661	2,756	4,247	6,634	11,212	26,539	36,811

1) CAPACITIES BELOW 30 PSIG SET PRESSURE ARE CALCULATED AT 3 PSIG OVERPRESSURE.

## WATER CAPACITY A.S.M.E (VIII) "UV" AT 10% OVER PRESSURE (GPM)

SET PRESSURE (PSIG)	1 x 2	1.5 x 2	1.5 x 3	2 x 3	3 x 4	4 x 6	6 x 8
15	61	90	139	217	366	866	1,202
20	69	102	157	245	414	979	1,358
25	76	112	173	270	457	1,018	1,499
30	83	122	188	293	496	1,173	1,627
35	89	132	203	317	535	1,267	1,758
40	96	141	217	339	572	1,355	1,879
45	101	149	230	359	607	1,437	1,993
50	107	157	242	379	640	1,514	2,101
75	131	193	297	464	784	1,855	2,573
100	151	222	343	535	905	2,142	2,971
125	169	249	383	599	1,012	2,395	3,322
150	185	272	420	656	1,108	2,623	3,639

1) CAPACITIES BELOW 30 PSIG SET PRESSURE ARE CALCULATED AT 3 PSIG OVERPRESSURE.



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APR/16/2013