

# INDUSTRIAL VALVE AND ENGINEERING SUPPLIES (Pty) Ltd. / VEMCO (Pty) Ltd

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## FIG 2351

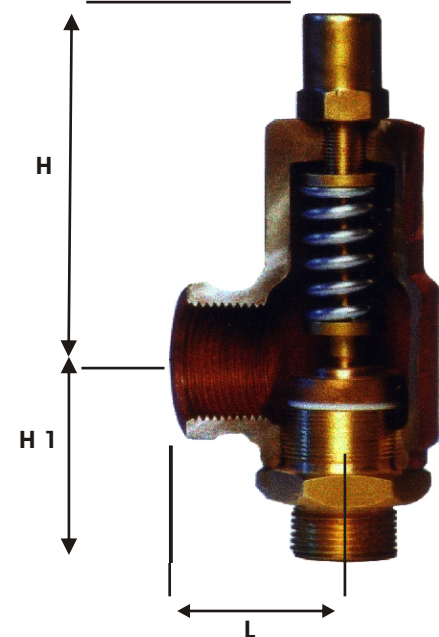
## BREAKAWAY RELIEF VALVE - HIGH CAPACITY

### FEATURES

HIGH CAPACITY SIDE DISCHARGE VALVE  
 REPLACEABLE PTFE SEAT  
 ADJUSTABLE SETTING  
 ENCLOSED CAP (BY-PASS APPLICATION ON REQUEST)  
 B.S.P. THREADS TO BS 21 TAPER  
 MANUFACTURED IN SOUTH AFRICA

### WORKING PRESSURE (BAR) NON SHOCK

MAX WORKING PRESSURE NON SHOCK		HYDROSTATIC TEST PRESSURE	
MAX STEAM	10 BAR @ 180 DEG C	SHELL	SEAT
MAX W.O.G.	21 BAR @ -10 TO 100 DEG C	42 BAR	23 BAR



ITEM	SPECIFICATION
BODY	MALL BS 6681 15MM - 50MM
	DZN 213 FORGED BR 15MM - 32MM
SEAT	BR-BS2874
CLACK HOLDER	DZN 213 FORGED BR 15MM - 32MM
CLACK	PTFE
SPINDLE	BR-BS2874
COLLAR	BR-BS2874
ADJUSTING SCREW	BR-BS2872
LOCK NUT	BR-BS2872
CAP	BR-BS2872
NAME PLATE	AL-BS1470
SPRING	GALV SPRING STEEL

SIZE BSP	L	H	H1	MASS KG
8				
10				
15	35	100	52	.6
20	35	100	52	.625
25	47	118	66	1.55
32	47	118	66	1.55
40	65	150	95	3.55
50	65	150	95	3.55

SPRING RANGE		
LIGHT	SILVER	0-200 KPA
MEDIUM	GOLD	100-1000 KPA
HEAVY	BLUE	750-1750 KPA
X-HEAVY	RED	1500-2500 KPA

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

*Break Away*  
VALVES

# TECHNOLOGY AT ITS BEST

# BREAKAWAY RELIEF & SAFETY VALVES

## CONVERSION FACTOR FOR AIR

BAR TO LBS PER SQ IN = X BY 14.5

CUBIC METRES/MIN TO CUBIC FOOT/MIN = X BY 35.31

## CONVERSION FACTOR FOR WATER

BAR TO LBS/FOOT PER SQ IN = X BY 14.5

LITRES/MIN TO IMP GALLON/MIN = X BY 0.220

## CONVERSION FACTOR FOR STEAM

BAR TO LBF /MIN = X BY 14.5

KG/HR TO LBS/HR = X BY 2.205

### CAPACITY CHART Fig No: 2351&2361&2461

#### AIR Cubic Metres/ Hour

(1CFM=1.698CUBIC METRES)

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
35	11.34	22.97	41.18	64.15	91.08	163.94
70	15.12	28.51	50.69	79.99	115.63	205.13
100	17.80	33.83	60.07	93.80	135.15	240.26
150	22.45	42.58	75.75	118.13	170.41	302.80
175	19.80	45.94	82.37	127.51	184.54	332.64
200	22.81	51.42	91.43	142.56	205.48	366.09
300	30.41	68.90	122.70	191.41	275.81	489.27
350	32.47	74.45	133.85	209.88	300.96	537.77
400	38.97	86.58	153.96	240.17	345.57	615.86
500	46.00	104.16	185.33	289.02	417.51	739.03
525	46.73	104.54	184.54	290.66	417.38	745.27
600	53.89	121.75	216.50	337.77	485.84	865.62
700	58.61	133.06	236.81	370.66	534.60	958.32
800	69.28	156.91	279.42	434.52	626.12	1115.39
900	77.17	174.49	310.40	485.84	697.97	1241.98
1000	84.74	191.66	339.77	533.02	769.82	1374.12
1200	100.46	227.24	403.73	629.54	910.10	1614.92
1250	104.35	236.08	420.84	653.50	944.32	1679.93
1400	110.88	250.27	445.10	696.17	1004.26	1778.04
1600	131.54	297.57	530.32	824.57	1190.66	2117.87
1800	147.12	332.74	591.91	923.79	1330.94	2367.64
2000	162.61	369.52	653.50	1019.59	1471.22	2617.40

### CAPACITY CHART Fig No: 2351&2361&2461

#### Water Litres/Minute

(1 GALLON=4.55 LITRES)

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
35	3.00	8.40	14.00	19.90	31.70	58.30
70	5.40	12.65	21.90	35.80	51.20	89.50
100	5.97	13.63	23.68	36.36	53.85	94.06
150	7.31	16.69	28.99	44.53	65.95	115.66
200	8.41	18.66	33.49	53.39	74.73	131.43
300	10.30	22.86	41.00	65.38	91.48	161.47
350	11.11	25.05	44.45	69.05	99.78	174.50
400	11.93	27.25	47.89	72.72	108.08	187.70
500	13.35	30.47	53.55	81.30	120.63	210.46
600	14.62	32.32	57.99	89.05	129.74	228.13
700	15.79	36.05	62.64	95.78	142.82	249.32
800	16.88	38.54	66.96	103.29	152.47	266.39
900	17.90	40.88	71.03	108.92	161.16	282.50
1000	18.87	43.09	74.87	114.56	170.81	297.67
1200	20.59	47.20	82.96	125.83	186.25	326.11
1250	21.02	46.66	84.67	133.58	186.56	332.75
1400	22.25	49.38	89.61	141.38	197.92	348.29
1600	23.78	52.79	95.80	151.13	211.18	372.70
1800	25.23	55.99	105.19	159.90	224.44	395.23
2000	26.59	59.02	107.12	168.68	236.75	416.83

### CAPACITY CHART Fig No: 2351&2361&2461

#### STEAM KG/HR

(2.2 Lbs=1Kg)

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
50	7.22	19.20	33.30	54.60	77.00	133.00
100	9.78	26.00	45.10	73.90	104.00	180.00
200	14.91	39.30	68.10	111.00	157.00	272.00
300	19.85	52.40	90.70	148.00	209.00	363.00
400	24.89	65.70	113.00	186.00	262.00	455.00
500	29.92	79.00	136.00	224.00	316.00	547.00
600	34.96	92.30	159.00	262.00	369.00	639.00
700	39.99	105.00	182.00	299.00	422.00	732.00
800	45.03	118.00	206.00	337.00	476.00	824.00
900	49.96	132.00	228.00	374.00	528.00	914.00
1000	55.00	145.00	251.00	412.00	581.00	1006.00