

INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

BMC
VALVE

Break Away
Brand Valves

FIG 2351 BREAKAWAY RELIEF VALVE - HIGH CAPACITY

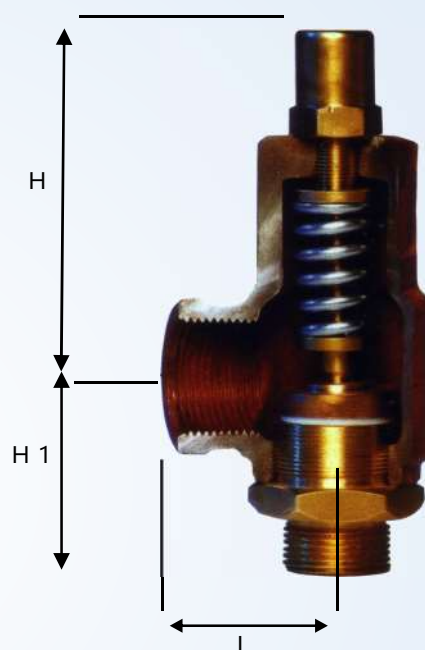
FEATURES

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.	20 BAR @ -10 TO 100 DEG C	42 BAR	23 BAR



ITEM	SPECIFICATION
BODY	MALL BS 6681 15MM - 50MM
	DZN 213 FORGED BR 15MM - 50MM
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	50-100 KPA
MEDIUM	GOLD	100-1200 KPA
HEAVY	BLUE	1200-2000 KPA

All Specifications are subject to change without notice

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FIG 2351

BREAKAWAY RELIEF VALVE - HIGH CAPACITY

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
(1CFM=1.698CUBIC METRES)
AIR Cubic Metres/ Hour

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
(1 GALLON=4.55 LITRES)
Water Litres/Minute

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
(2.2 Lbs=1Kg)
STEAM KG/HR

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

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