

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

VAT REG NO: 4280104276 CO REG NO 83/05965/07

VAT REG NO:4200211854 CO REG NO 1979/002851/07



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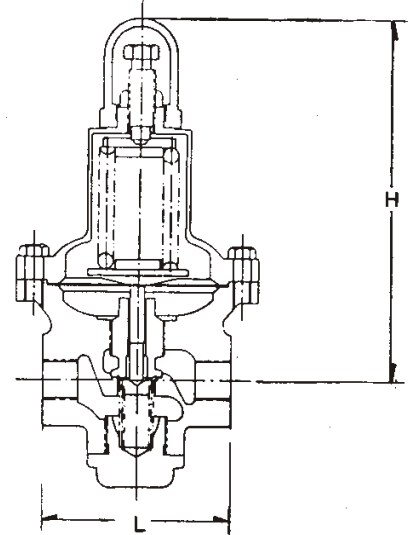
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FIG 7250

STEAM PRESSURE REDUCING VALVE



DIMENSION		mm		
Size	inch	1/2	3/4	1
	mm	15	20	25
L		95	95	101
H		196	196	202
WEIGHTS	(Kg)	3.9	3.9	4.9

* Please name MODEL NO. when negotiation.
 Test Pressure: Body 20 Kg/cm² (Hydrostatic)
 Primary Pressure: 0.3 Kg/cm² – 2 Kg/cm²
 1 Kg/cm² – 7.5 Kg/cm²
 Max. Temperature: 220°C
 Thread: BS21, ANSI B2.1 or DIN-259.

MATERIAL

Model:	PR-3A
Body Cap	CAST IRON ASTM A126 CLASS B
Bottom Cover	CAST IRON ASTM A126 CLASS B
Gasket	ASBESTOS
Diaphragm	ST. ST.
Seat/Disc/Stem	STEEL
Spring	ST. ST.
Spring Seat	STEEL
Packing	PTFE
Adjust Scr. Nut	BRASS
Bolt	STEEL

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Break Away
VALVES

TECHNOLOGY AT ITS BEST

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FIG 7250

STEAM PRESSURE REDUCING VALVE

FC-20 PRESSURE REDUCING VALVE CLASS 10K

SCREWED END : PR-3AS

FLANGED END : PR-3AF

FLOW CAPACITY (KG/H)

PRESSURE BAR

+/- 1% (KG/H)

WORK PRESSURE SIZE	1 Kgs	2 Kgs	3 Kgs	4 Kgs	5 Kgs	6 Kgs	7 Kgs
1/2"		580	630	800	1100	1300	1600
3/4"		820	1100	1500	1800	2000	2200
1"		1500	1800	2200	2800	3200	3700
1.1/4"		2500	3000	3800	4200	5100	6200
1.1/2"		3200	4000	5200	6000	7500	9800
2"		5600	6000	7500	8200	8900	11000
2.1/2"		9000	9800	11000	14000	16000	20000
3"		12000	14000	16000	20000	25000	28000
4"		20000	22000	24000	26000	28000	32000
6"		35000	38000	48000	57000	68000	82000

1. Pipes must be neat and clean before fitted.
2. Inlet pressure 10 Kgs x 0.6 = 6 Kgs Outlet pressure.
3. A Y-Strainer has to be installed in the front of pressure reducing valve best for long usage.
4. Pressure reducing valve should be setting on the horizontal position. (vertical setting is prohibited)

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FIG 7250

STEAM PRESSURE REDUCING VALVE

PRESSURE REDUCING VALVE

Blow-Off Capacity of Saturated Steam

P1 = Inlet Pressure ?kgf/cm²g?

P2 = Outlet Pressure ?kgf/cm²g?

kgs / h

p1 \ p2	3 kg	3.5 kg	4 kg	4.5 kg	5 kg	5.5 kg	6 kg	6.5 kg	7 kg	7.5 kg	8 kg	8.5 kg	9 kg	9.5 kg	10 kg
1 kg	47.5	53.5													
1.5 kg	42.5	51.1	59.2	65.3											
2 kg	36.1	45.6	54.4	63.1	71.2	77.2									
2.5 kg	26.5	38.5	48.7	57.8	66.5	74.8	83.2	89.2							
3 kg		28.1	41.1	51.5	61.0	70.1	78.3	86.5	95.1	100.0					
3.5 kg			29.8	43.2	54.3	64.1	73.4	82.1	90.3	98.5	107.2	112.5			
4 kg				31.5	45.2	56.5	67.1	76.3	85.2	93.5	106.1	110.2	119.0	124.8	
4.5 kg					32.6	47.3	59.2	69.8	79.3	88.5	102.1	105.6	114.1	122.1	130.8
5 kg						34.1	49.1	61.5	72.2	82.2	97.2	100.5	109.2	117.6	126.0
5.5 kg								51.1	63.8	74.7	85.1	94.5	103.7	112.6	121.2
6 kg										65.8	77.2	87.7	97.5	106.8	115.8
6.5 kg												79.6	90.4	100.2	108.8
7 kg														92.8	103.1

$$p1 = p2 \times cv$$

MODEL		1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"	5"	6"
PR-3AF	CV	1	2.5	4	6.5	9	16	25	36	62	92	125
PR-3AS	CV	1	2.5	4	--							

ex. p1 Input 6.5 kgs – p2 output 3.5 kgs

$$2.1/2'' \ 82.1 \times 25 = 2052.50 \text{ kgs/h}$$