Priyal Corporation

avcon®

DATA SHEET
RG 100 / 200

High Pressure Regulators For Air & Gas

FEATURES

- All metal construction with Nylon inserted Anti viking Perbunan Diaphragm for Gas, Buna Nitrile for Air. No Gland Packing.
- Non protruding type adjustments Spindle with thrust bearing fitted for ease of spring adjustments.
- Protective cap and locking arrangement which disables unauthorized tampering with the set pressure.
- Internal impulse drilling.
- Also available with External impulse line with vibration damping valve for greater accuracy in outlet pressure.
- Constant set pressure, (+/-5% of the set range), irrespective of change in inlet pressure and flow.
- Solid steel construction designed to API Standard.

CONSTRUCTION

- Valve Body : Cast Steel to ASTM A 216
- Body & Spring Chamber : Cast Steel to ASTM A 216 Gr. WCB
- Spring : As per IS 4454 Gr. III
- Spindle : Series 400. Burnished & hard chrome plated
- Plug : Stainless Steel 304
- Seat : Soft Seat Teflon (Single Seated)
- Diaphragm : Calendared sheet Nylon inserted Perbunan/ Buna Nitrile
- End Connection : Screwed to BSP/ NPT (F) or Externally Screwed Flanges to ANSI B 16. 5, Class 150/300 RF
- Working Temperature : (-)15° C to (+) 80° C
- Inlet Pressure : 3 to 10 bar (For RG XX R 100)
  6 to 20 bar (For RG XX R 200)
- Leakage : Class VI on Shut- off
- Fluids : Natural Gas, LPG in gaseous form, Town Gas, Biogas, Air.
- Set Pressure Range :

Type	RG XX R 100	RG XX R 200
A	0.4 to 4.0 bar	0.4 to 4.0 bar
B	1.5 to 5.0 bar	1.5 to 5.0 bar
C	3.0 to 8.5 bar	3.0 to 8.5 bar
D		5.5 to 12.0 bar
HIGHER SET PRESSURE RANGE IS AVAILABLE		

OPERATING PRINCIPLE

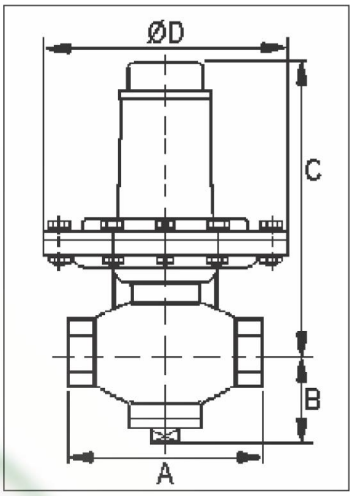
The regulation takes place by means of a spring force by moving the diaphragm and the stem against the gas pressure flowing through the regulator, below the diaphragm assembly. The outlet pressure can be varied by means of adjusting the spring force.

The design offers constant set pressure (±5 % of the set point) irrespective of change in inlet pressure and inlet flow.

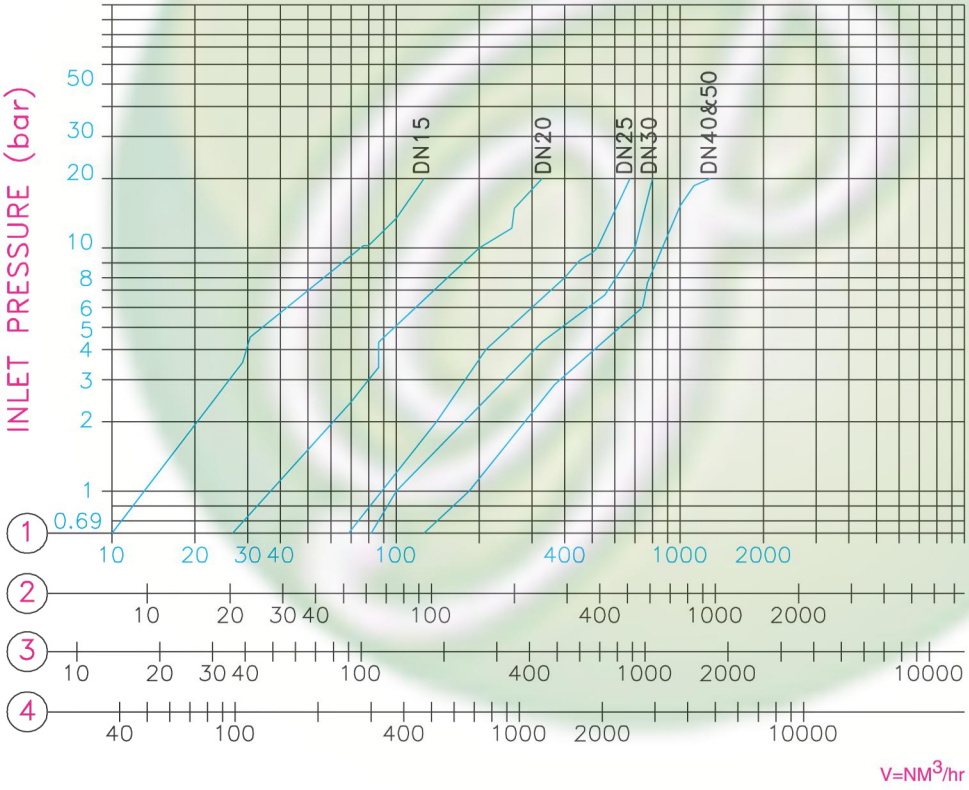
Also available with external impulse line with vibration damping valve to achieve greater accuracy in outlet pressure.

DIMENSIONAL DETAILS

Model	Size		Dimensions				Approx Weight Kgs.
	Inches	mm	A	B	C	0D	
RG 15 R 100 RG 15 R 200	1/2"	15	156	84	340	204	18.0
RG 20 R 100 RG 20 R 200	3/4"	20	156	84	340	204	17.7
RG 25 R 100 RG 25 R 200	1"	25	156	84	340	204	17.5
RG 35 R 100 RG 35 R 200	11/2"	35	216	95	395	254	34.5
RG 50 R 100 RG 50 R 200	2"	50	216	95	395	254	34.0



VOLUMETRIC FLOW DIAGRAM



PRESSURE RATIO LP : HP	CAPACITY FACTOR "W"
0.96	2.5
0.94	2.0
0.92	1.8
0.91	1.7
0.89	1.6
0.88	1.5
0.86	1.4
0.83	1.3
0.79	1.2
0.73	1.1
0.58	1.0

When the downstream pressure (LP) is greater than half of the upstream pressure (HP), the maximum flow rate required should be multiplied by a capacity factor "W" obtained by the above table.

SPECIFIC GRAVITY :

① **Natural Gas = 0. 62**

② **Town Gas = 0. 45**

③ **LP Gas = 1. 56**

④ **Air = 1. 00**

Note:
Technical specifications and dimensions are subject to change without prior notice.
Dimensions in the table are approximate subject to final confirmation by AVCON.

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