R.K. Instruments & Controls

TECHNICAL DATASHEET

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Vanaz Two-Stage Pressure Reducing System

Brand: Vanaz | Code/Part No.: Two-Stage PRS | Category: GAS TRAIN SYSTEMS

Specifications

Type	**Two-Stage Pressure Reducing System (Gas Train / PRS)**
Applicable Gases	**LPG, PNG (Natural Gas), Nitrogen (N2), Carbon Dioxide (CO2)**
Maximum Inlet Pressure	**Up to 49 kg/cm²**
Outlet Pressure Range	**0.03 to 26 kg/cm²**
Maximum Flow Rate	**Up to 6,000 SCMH**
Connection Size	**1" – 4" NB, flanged (ANSI 150 / ANSI 300)**
Key Components	**Ball valves, filtration unit, slam shut-off valve, pressure regulator(s), creep &**
Optional Heater	**Electrical, water-bath or catalytic (for Joule-Thomson cooling offset)**
Manufacturer	**Vanaz Engineers Ltd, Pune**



Description

The Vanaz Two-Stage Pressure Reducing System is a pre-engineered gas train / pressure regulating station (PRS) that reduces high inlet pressure down to a safe, stable downstream pressure in two regulation stages, for LPG, PNG (natural gas), nitrogen (N2) and CO2 service. The skid is built up from inlet and outlet ball valves for isolation, a filtration unit to protect downstream components, a slam shut-off valve that closes automatically if downstream pressure exceeds its set limit, one or more spring-loaded or pilot-operated pressure regulators for the two reduction stages, creep and safety relief valves for overpressure protection, and pressure gauges with isolation cocks for upstream/downstream monitoring — with an optional heater (electrical, water-bath or catalytic) available where Joule-Thomson cooling needs to be offset. Rated for inlet pressures up to 49 kg/cm², an outlet range of 0.03 to 26 kg/cm², flows up to 6,000 SCMH, and connection sizes from 1" to 4" NB flanged (ANSI 150/300), it is built for industrial gas distribution and pressure-reduction duty. Manufactured by Vanaz Engineers Ltd, Pune.

Typical media compatibility: CNG, PNG, LPG, Air, Nitrogen — confirm against application before installation.