

GAS VENT

VACUUM-INSULATED
PIPING VIP

VIP
HOSE

VIP
COUPLINGS

GAS VENT

PHASE
SEPARATOR



APPLICATION

The gas vent is used in piping with cryogenic liquids such as nitrogen, oxygen and argon.

Its function is to separate the working medium in a gas phase from the medium in a liquid phase.

The device is applied wherever it is required to supply a homogeneous cryogenic liquid to reception devices.

The gas vent is applied in facilities with high hygienic requirements and where condensate and ice accumulation is not allowed.

Also, it is used in places where cryogenic piping systems require a period of standstill.

DESIGN AND BENEFITS

Application of the gas vent makes it possible to maintain a homogeneous liquid in the whole system of vacuum-insulated piping. Furthermore, after a period of standstill, it allows fast and automatic cooling of the piping.

The device consists of an automatically controlled valve built in the vacuum jacket.

The use of a special insulation design (vacuum + MLI) limits the inflow of heat to the medium.

The gas vent is made entirely of stainless steel.

The device is designed to work in high hygiene areas.

The external housing, which is a vacuum jacket, remains at the ambient temperature, providing excellent protection against cold burns.

The device is easy to install.

Two types of coupling are available – Johnston bayonet coupling and, welded coupling.

The external housing ensures the highest vacuum.

GAS VENT

TECHNICAL SPECIFICATION

TECHNICAL DATA



Standard diameter:	DN15-DN80
Standard pressure class:	PN 25
Working position:	vertical
Coupling:	Johnston bayonet or welded coupling (KrioSystem's design)
Control mode:	automatically controlled valve
Installation:	inside/outside

MATERIALS



External housing:	stainless steel 1.4307
Insulation:	vacuum
Spacers:	G10 epoxy glass
Sealing (bayonet couplings):	bimetallic, O-rings
Valve:	stainless steel

MANUFACTURE



Pipes and materials according to EN standards.

PED 2014/68/EU directive conformity.

Welding processes according to ISO 3834-2 quality management system.

Maximum permissible leak: $1 \cdot 10^{-9}$ mbar \cdot l/s verified with a helium leak detector acc. with PN-EN ISO 20485.

Vacuum level $\leq 10^{-4}$ mbar

OPTIONS



Gas vent design adapted to the requirements and working conditions specified by customer.

More sizes available.

Other pressure classes.

Different types of materials.

Different lengths and shapes.

Non-standard couplings.

Other vacuum levels.

Vacuum regeneration.