

## Pipeline Supports

### VPR



#### DESCRIPTION:

Vortico VPR supports are used to support pipelines while maintaining the appropriate freedom of movement of the pipeline, depending on its mounting location.

- Vortico VPR-S: Fixed supports immobilize the pipeline in the place of attachment, creating a fixed point of the pipeline.
- Vortico VPR-P: Where, as a result of stresses in the pipeline caused by thermal expansion or other external forces, movable (directional) supports are used, which fix the pipeline while maintaining freedom of movement in the axial direction, protecting against the accumulation of stresses between the support points.
- Vortico VPR-L: In places where the direction of the pipeline changes, loose (free) supports are used, whose task is to take the weight of the pipeline while allowing movement in horizontal directions.
- Vortico VPR-R: Height adjustable supports. Used for pipelines with a slope, run at different distances from the ground, or in any other case where it is required to adjust the height of the support.

Appropriate configuration of the pipeline with the use of fixed, sliding and free supports allows for adequate compensation of stresses in the pipeline.

#### MATERIALS:

The supports can be made of any materials. Supports are available in stainless and acid-resistant steel as well as in hot-dip galvanized or painted carbon steel.

### NON-STANDARD VERSIONS:

This card shows examples of types of supports, however, Vortico provides supports tailored to the customer's needs according to own or customer's drawings. The supports differ in construction for insulated and non-insulated pipelines, as well as depending on the mounting location and pipeline operating conditions. We deliver supports with clamps to be screwed to the pipeline or prepared for welding. We provide accurate drawings and 3D models of supports to be placed in the project.

### DOCUMENTATION:

Standard documentation delivered with the delivery includes: the national declaration of performance, technical and operational documentation along with the operating and assembly instructions. On request, we provide material certificates, welding documents and other according to the customer's needs.

### SERIES:

**Part No:** VPR-X DNXXX-K-M-Y-Z

#### VPR-X – Type of support:

VPR-S – Fix point  
VPR-P – Directional sliding support  
VPR-L – Free sliding support  
VPR-R – Adjustable height support

#### **M – Material:**

N – Stainless Steel 1.4301 (304)  
K – Acid Resistant Steel 1.4401/1.4404 (316/316L)  
W – Carbon Steel  
? – Other

#### **DNXXX – Nominal diameter of pipeline:**

DN100: Dz=114,3mm  
DN125: Dz=139,7mm  
DN150: Dz=168,3mm  
DN200: Dz=219,1mm  
DN250: Dz=273,0mm  
DN300: Dz=323,9mm  
DN350: Dz=355,6mm  
DN400: Dz=406,4mm  
DN500: Dz=508,0mm  
DN???: Inna

#### **Y – Type of attachment to the pipeline**

A – Welded to pipeline  
B – Clamped to pipeline.  
C – Support with saddle  
? – Other

#### **Z – Type of attachment to the base**

K – Anchored  
S – Welded  
? – Other

#### **K – Direction of pipeline**

H – Horizontal  
V – Vertical

Example of Part No.: VPR-P DN300-N-A-K: Directional sliding support, for a pipe with an outer diameter of 323.9 mm, made of stainless steel 1.4301 (304), welded to the pipeline and fixed to the foundation with anchors.