

# Solutions for air compressors

*Valves, control modules  
and special components*



# Customized pneumatics for industrial, marine and mobile compressors

We supply **customized products** according to OEM`s requirements and develop completely new products in close co-operation with our customers.

Polarteknik has **over 40 years experience** of designing and manufacturing valves for compressors used in extremely demanding circumstances like rock drilling, mining and marine applications..

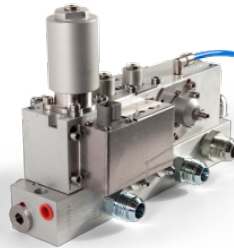
Our product range comprises various valves to control capacity and outlet pressure of compressors, as well as valves for loading and unloading functions, non-return valves, pressure regulators and oil filters.

Our inlet and discharge valves are **designed to minimize pressure drop** and consequently to **save energy during operation**.



## Proven for years in the most difficult applications

- High pressure applications available
- Built-In warm up and cooling circuit



Compressor controls  
for mining machines

## Minimal air pressure drop to optimize compressor's energy consumption

- Max. Pressure 40 bar/ DN80



Non-return valves

## 90 angular connection to save space

- In-Line versions with minimal pressure drop



Minimum pressure /  
Discharge valves

## Saves time at machine builder's assembly line

- Less external connections
- Fits in **small space**
- **Shortens shutdown time** needed for maintenance



Compressor control modules  
with integrated valves

## Modified to fit into available space

- Oil-filter housings **modified to fit into available space** in OEM's construction and for filter elements preferred by the OEM



Oil-filter bodies  
with bypass

## Minimal air pressure drop

- Throttle inlet control to **match power** consumption of modern compressors **to the varying air demand**
- W/O Built-In non-return valve



Inlet valves with continuous  
capacity control

# Polarteknik Oy

**Polarteknik** has its roots in custom made pneumatics.  
*The company has an offering that ranges from custom made components and integrated actuators to wide-range systems.*

Pneumatics' product range consists of systems and products for OEM-manufacturers, system suppliers and end users in various application areas like:

- Air compressors
- Paper machines
- Mechanical wood handling machinery
- Trucks, buses and other utility vehicles
- Railway vehicles
- Mining and drilling machinery
- Material processing lines
- Materials handling equipment
- Greenhouse automation
- Actuators for pinch and knife gate valves

Our unique concept relies on highly **experienced sales and engineering staff** who are ready to find solution to any challenge related to special Pneumatics.

## Polarteknik Oy

Klaavolantie 1  
32700 Huittinen  
Finland

Tel. +358207709500  
Fax +358207709505

info@polarteknik.fi  
www.polarteknik.fi