



Breakaway couplings ABVN series

The breakaway coupling with selectable pressure-independent separating force

As opposed to standard breakaway couplings, the triggering force of the new ABVN Series coupling made by Roman Seliger is not dependent on the pressure within the line transporting the medium.



Separation by force limitation

Based on practice, it is known that with flange connections the dimensioning of the screws is dependent on the internal pressure of the connected lines, since the internal pressure attempts to press both flanges apart. This must also be considered in the dimensioning of breaking pins for current breakaway couplings. This effect is eliminated through a patent-protected measure applied to the ABVN series breakaway coupling. For the operator this means that the release force can be individually calibrated to the existing application. As a result, even hoses of

low tensile strength (e.g. film wrap hose) or lines and equipment components under enormous pressure can be optimally protected from damage due to excessive external tensile loads. The breakaway coupling is suitable for use wherever pipe lines and hoses have to be protected from excessive loads. As opposed to the breakaway couplings in regards to the latest technology, the triggering force of the innovations presented here can then be individually selected, regardless of the line pressure.

Attributes

- Release force is independent of internal pressure of fluid line
- Arbitrary triggering force
- Suitable for hoses that can only transfer low tensile loads

Your benefits at a glance

- Controlled separation through breaking pins with arbitrary breaking pressure (different pins for different force ratios are available on request)
- High throughput rates
- As opposed to other breakaway couplings, they can also be used for vacuum applications
- Secure separation in axial direction
- Radial stress-resistant through joined version
- Protected connections and system components
- Protects employees and the environment from unwanted product leakages

Additional technical information

Technical data

- Seals: FKM
NBR
FFKM
EPDM
- Materials: Stainless steel (1.4571)
Others on request
- Connection: Female thread
- Nominal widths: DN 50
Others on request
- Temperature range: -40 °C to 150 °C
dependent on the sealing material
- Pressure area: 0,2 to 40 bar
- Triggering forces: Can be individually selected, but at least 2 kN

Dimensions and weights

Type ABVN (DN)	50
Connection	G 2"
D (mm)	150
L1 (mm)	318,7
L2 (mm)	280,7
SW	68
Weight* (kg)	12,9

*The weight applies to stainless steel only.

