



# Breakaway couplings ABVC series

## The breakaway coupling for cryogenic media

Even under normal circumstances, the process of loading fluid media requires a high standard of safety technology in the area of fittings. When the temperature factor is added to the mix, for example for cryogenic media, the requirements enter a new dimension. For low-temperature applications, RS Roman Seliger has the ABVC breakaway coupling, which also supports RS safety standards for the unique challenges posed by cryogenics.

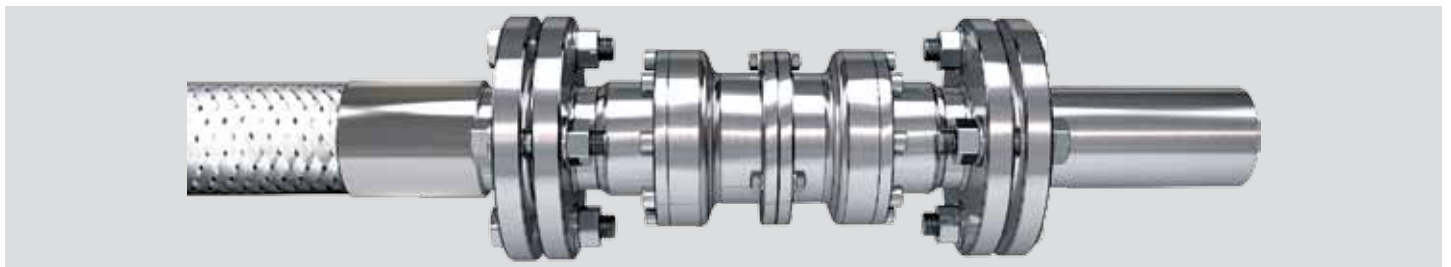


The ABVC breakaway coupling protects the hose line from unwanted breakaway, thus protecting humans and the environment from uncontrolled product leakages.

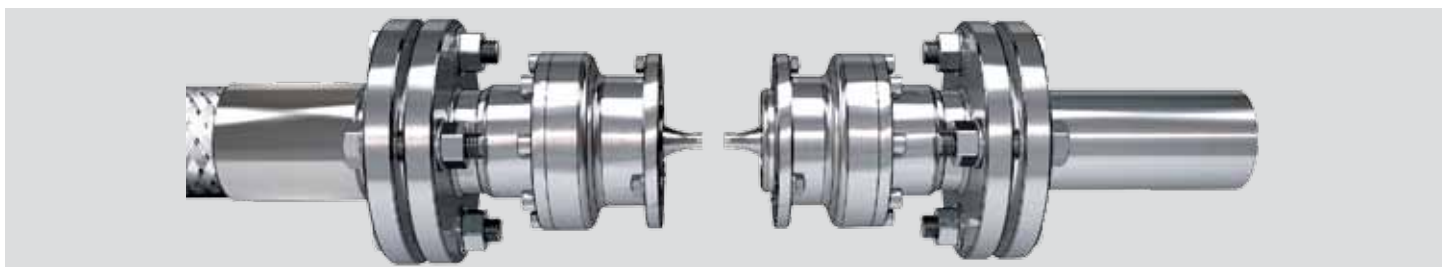
## Separation by force limitation

As well as ensuring compliance with the corresponding leak rates, using our breakaway coupling offers guaranteed production for the hose line used and the plant components across the entire temperature range from -196 °C to 60 °C.

It's not just the low temperature, but also the particular hazard potential associated with cryogenic media such as LNG or liquid oxygen that calls for safe handling of the load line.



ABVC series before emergency separation.



ABVC series after emergency separation.

# Separation instead of emergency

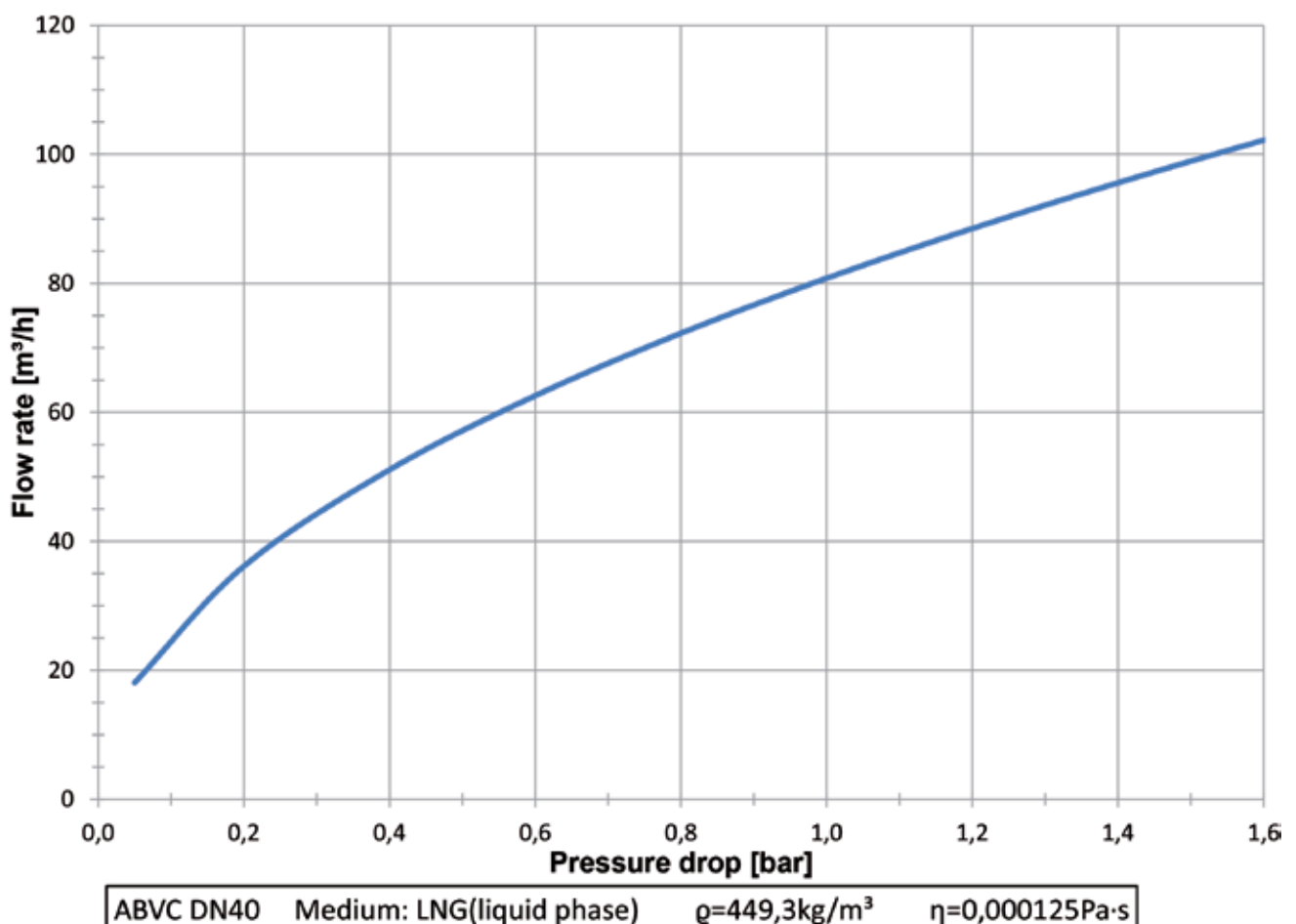
## Attributes

- Developed for low temperatures down to -196 °C
- Streamlined design
- High flow rate
- Low pressure loss

## Your benefits at a glance

- Safe function in the temperature range from -196 °C to 60 °C
- Small residual amount thanks to swift valve closure
- Safe triggering at breakaway angles of up to 90°
- Controlled separation through breaking pins
- Protects the hose and flanged-mounted systems from damage

## Pressure losses



# Additional technical information

## Technical data

- Seals: PTFE
- Materials: Stainless steel (1.4571)  
Others on request
- Connection: Flange in accordance with EN 1092 or ASME
- Nominal widths: DN 40 to DN 50  
Others on request
- Temperature range: -196 °C to 60 °C
- Pressure stages: PN 16
- Triggering forces: 13 kN  
Others on request

## Approvals/certificates

Currently in planning

## Dimensions and weights

Type ABVC (DN)	40	40	40
<b>Connection</b>	ASA 150 PSI	ASA 300 PSI	EN 1092-B
<b>D (mm)</b>	127	155	150
<b>L (mm)</b>	277	277	277
<b>Weight* (kg)</b>	8.6	10.7	10

## Dimensions and weights

Type ABVC (DN)	50	50
<b>Connection</b>	ASA 150 PSI	ASA 300 PSI
<b>D (mm)</b>	152.4	165.1
<b>L (mm)</b>	277	277
<b>Weight* (kg)</b>	10.3	11.7

