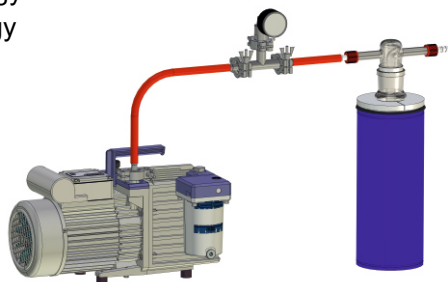


Technical data sheet for cold traps / coldfinger type S29-z (two sections) with dewar flask made of glass

Area of application

For condensing water, solvents or gases in connection with a vacuum pump

- laboratory technology
- medicinal technology
- biotechnology
- vacuum technology



Cold trap / Coldfinger
Type KF 29-GL-Z



Cold trap / Coldfinger
Type KF 29-NW16-Z

Characteristics

- reliable and easy handling
- no stand material for holding the cold trap necessary
- Dewar flasks according to DIN 12492
- glass material according to ISO 3585 (DURAN)
- protective casing of Dewar flask made of blue coated metal or aluminum
- for liquid cooling agents, e.g. LN2 (-196°C)
- for solid cooling agents CO2 (-77°C) with solvent (CO2-wire basket necessary)
- pressure-free coolant sphere inside the Dewar flask

Description of complete cold trap with Dewar flask

Types and accessories

- C = blue-coated protective casing out of metal
- CAL = structured aluminium casing
- plastic ring = polyethylene (PE), white, two-parted
- connections for cold trap = flange KF NW, GI18 / olive, spherical joint S29 with and without o ring seal

Temperature ranges for the Dewar flasks and the plastic ring

- glass refill from - 196°C to + 150°C
- plastic ring to + 100°C

Pressure range in the cold trap

- vacuum up to 5×10^{-5} mbar

Description of the glass for the cold trap and the Dewar flask

Material

- borosilicate glass 3.3 ISO 3585

Chemical characteristics

- hydrolytic resistance: according to ISO 719 (98°C)
- hydrolytic resistance: according to ISO 720 (121°C)
- acid resistance: according to ISO 1776
- alkaline resistance: according to ISO 695-A2

Physical characteristics

- linear expansion coefficient: $3,3 \times 10^{-6}$ 1/K (in between 20-300°C)
- density: 2,23 g/cm³
- specific thermal capacity: 910 J/kg K
- transformation temperature: 525°C



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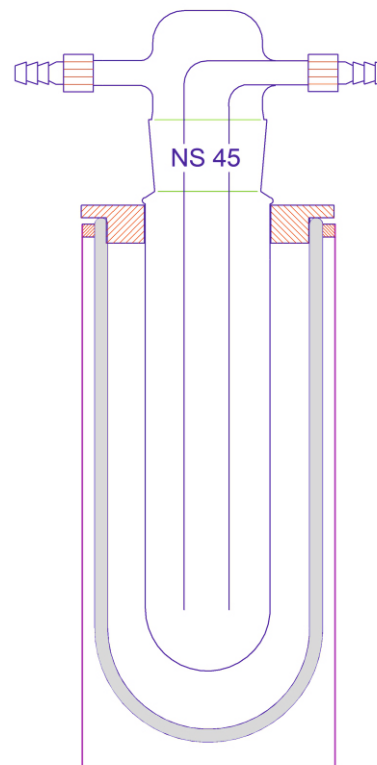


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Vacuum connections for the cold trap

- glass threads with screw-on cap and PTFE-olive, e.g. GL18
- vacuum glass flanges, e.g. KF NW 16
- plane flanges, e.g. DN 25
- conical ground joints NS 29/32
- spherical ground joints S 29
- spherical ground joints Rotulex S 29 with O-ring seal



Cold trap / Coldfinger
two sections

Safety advises and regulations

- always wear protective glasses and protective gloves
- national regulations for laboratories
- company-internal regulations
- safety regulations for handling with liquid gases
- Pressure calculation according to "AD Merkblätter"

Dimensions and article numbers of standard cold traps

Coldfinger standard, two sections with dewar and plastic ring	dewar Type	condensate theoret.vol.	coolant theoret.vol.	Art.No.		spare parts	length T
Type KF 29-K-Z	12 C	150 ml	1000 ml	17400		Coldfinger S 29-Z	200
Type KF 29-OK-Z	12 C	150 ml	1000 ml	17401		Coldfinger S 29 O-Z	200
Type KF 29-GL-Z	12 C	150 ml	1000 ml	17402		Coldfinger S 29 GL-Z	200

Coldfinger standard long version, two sections with dewar and plastic ring	dewar Type	condensate theoret.vol.	coolant theoret.vol.	Art.No.		spare parts	length T
Type KFL 29-K-Z	18 C	250 ml	2000 ml	17410		Coldfinger SL 29-Z	260
Type KFL 29-OK-Z	18 C	250 ml	2000 ml	17411		Coldfinger SL 29 O-Z	260
Type KFL 29-GL-Z	18 C	250 ml	2000 ml	17412		Coldfinger SL29 GL-Z	260

Coldfinger standard, two sections with dewar and plastic ring	dewar Type	condensate theoret.vol.	coolant theoret.vol.	Art.No.		spare parts	length T
Type KF 29-NW16-Z	12 C	150 ml	1000 ml	17400-NW16		Coldfinger S 29-NW16-Z	200
Type KF 29-NW25-Z	12 C	150 ml	1000 ml	17400-NW25		Coldfinger S 29-NW25-Z	200
Type KFL 29-NW16-Z	18 C	250 ml	2000 ml	17410-NW16		Coldfinger SL 29-NW16-Z	260
Type KFL 29-NW25-Z	18 C	250 ml	2000 ml	17410-NW25		Coldfinger SL 29-NW25-Z	260



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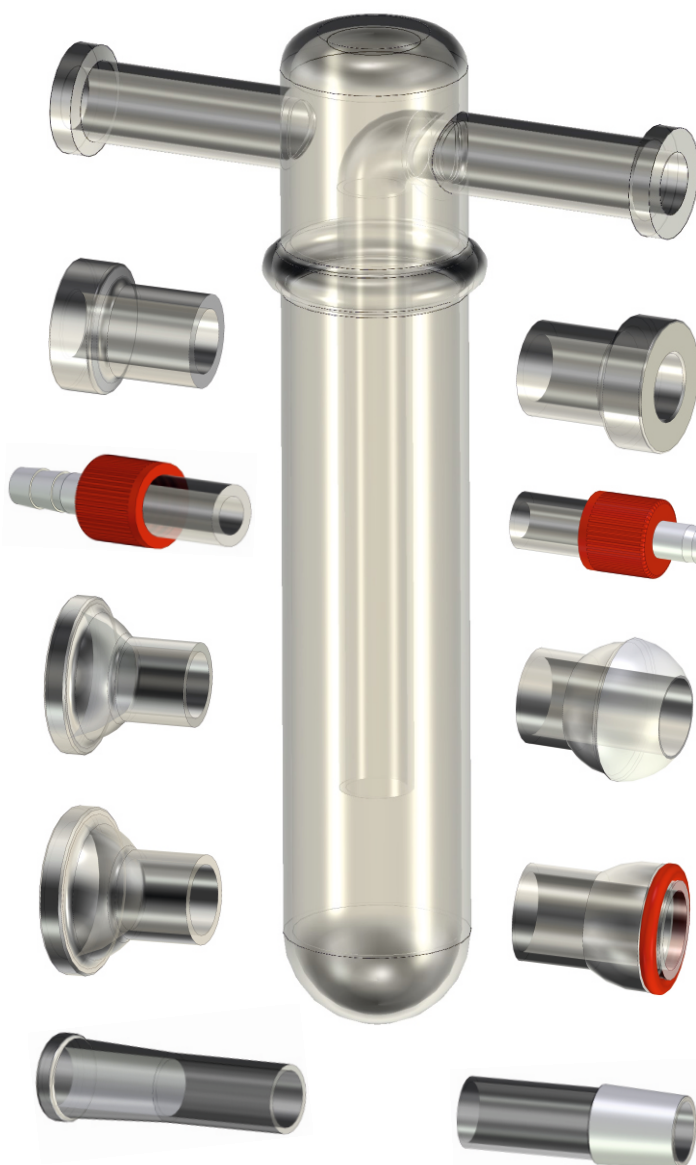
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Technical data sheet for cold traps / coldfinger type S29-z (two sections) with dewar flask made of glass

Connection variants cold traps



Vacuum flange
KF NW16 - NW40
for external centering
ring with Viton O-ring

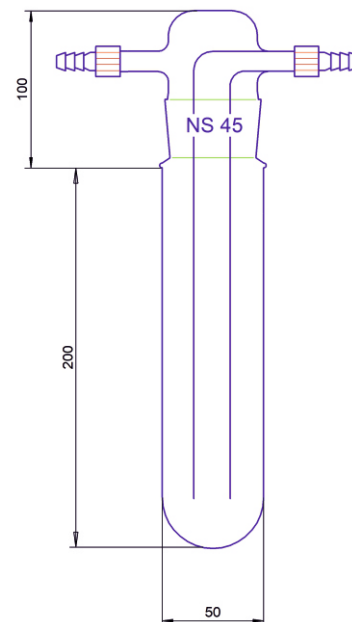
Plan flange
DN15-DN25

Glass threads
with olive
GL14-GL25

Spherical ground
joints S13 - S40

Spherical ground
joints S29-S35 with
O-rig seal Typ Rotulex

Conical ground joints
NS14/23 - NS45/40



Cold trap / Coldfinger
Type S 29-GL-Z



Cold trap / Coldfinger
Type SL 29-NW16-Z



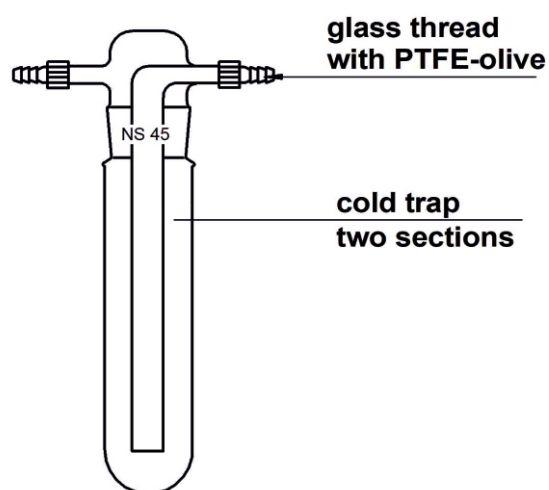
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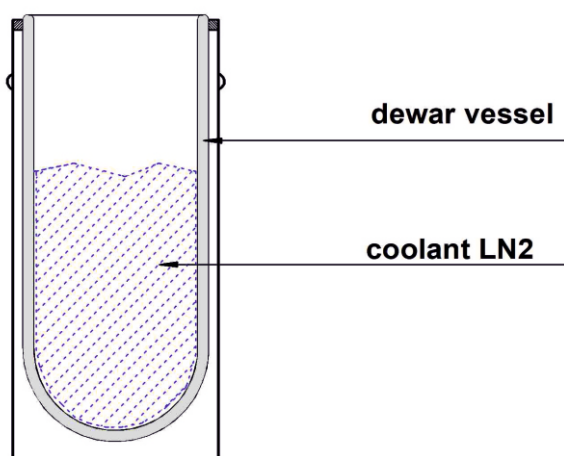


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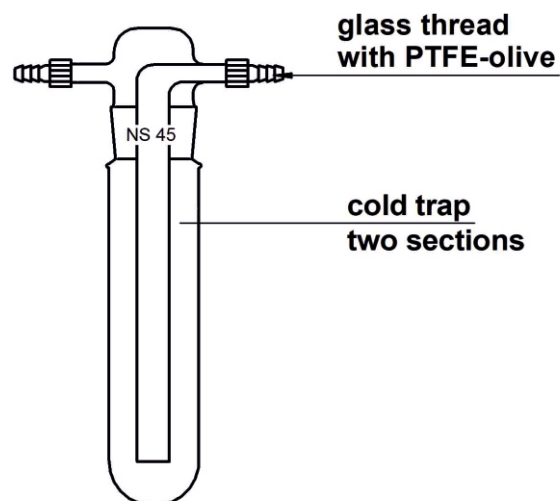


plastic ring

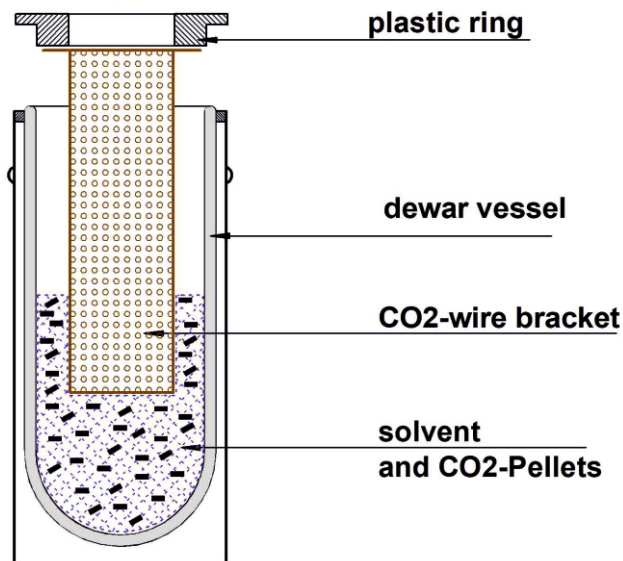


dewar vessel

coolant LN2



plastic ring



dewar vessel

CO2-wire bracket

solvent
and CO2-Pellets

CO2-wire bracket for dewar vessel Type
12 C
18 C

12 C

18 C



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