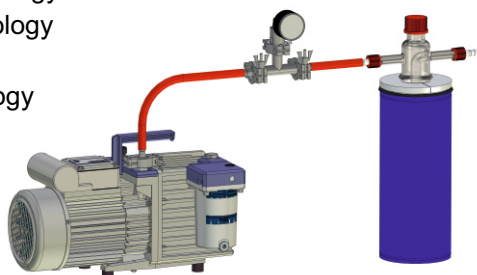


Technical data sheet for cold traps / coldfinger type S29-A with dewar flask made of glass

Area of application

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

- laboratory technology
- medicinal technology
- biotechnology
- vacuum technology



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



Cold trap / Coldfinger
Type KF29-GL-A



Cold trap / Coldfinger
Type KF29-NW16-A

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

- up to 1 bar excess pressure
- 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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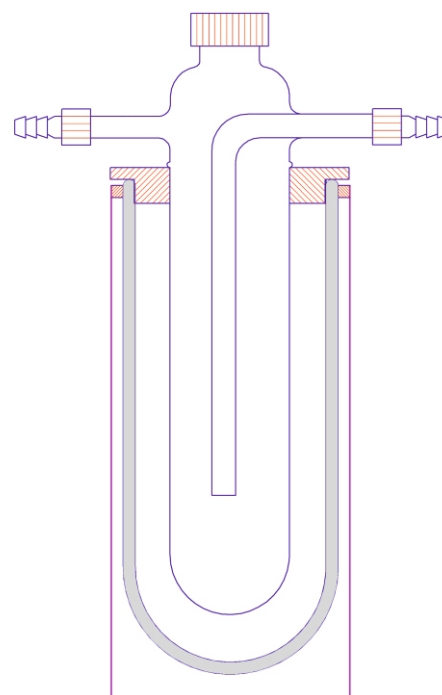
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Vacuum connections for the cold trap

- 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

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"



Cold trap / Coldfinger with a spout

Dimensions and article numbers of standard cold traps

cold trap completely	condensate	coolant	dewar	cold trap	Art. No.	spar coldfinger
Type	theoret.Vol.	theoret.Vol.	Type	connection		
Type KF 29-K-A	150 ml	1000 ml	12 C	S 29	17370	coldfinger S 29-A
Type KF 29-OK-A	150 ml	1000 ml	12 C	O 29	17371	coldfinger S 29 O-A
Type KF 29-GL-A	150 ml	1000 ml	12 C	GL 18	17372	coldfinger S 29 GL-A
Type KF 29-NW16-A	150 ml	1000 ml	12 C	NW16	17370-NW16	coldfinger S 29 NW16
Type KF 29-NW25-A	150 ml	1000 ml	12 C	NW25	17370-NW25	coldfinger S 29 NW25
Type KFL 29-K-A	250 ml	2000 ml	18 C	S 29	17380	coldfinger SL 29-A
Type KFL 29-OK-A	250 ml	2000 ml	18 C	O 29	17381	coldfinger SL 29 O-A
Type KFL 29-GL-A	250 ml	2000 ml	18 C	GL 18	17382	coldfinger SL 29 GL-A
Type KFL 29-NW16-A	250 ml	2000 ml	18 C	NW16	17380-NW16	coldfinger SL 29 NW16
Type KFL 29-NW25-A	250 ml	2000 ml	18 C	NW25	17380-NW25	coldfinger SL 29 NW25



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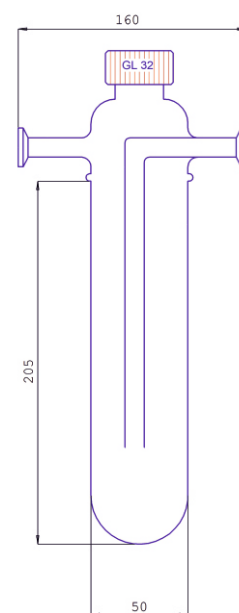
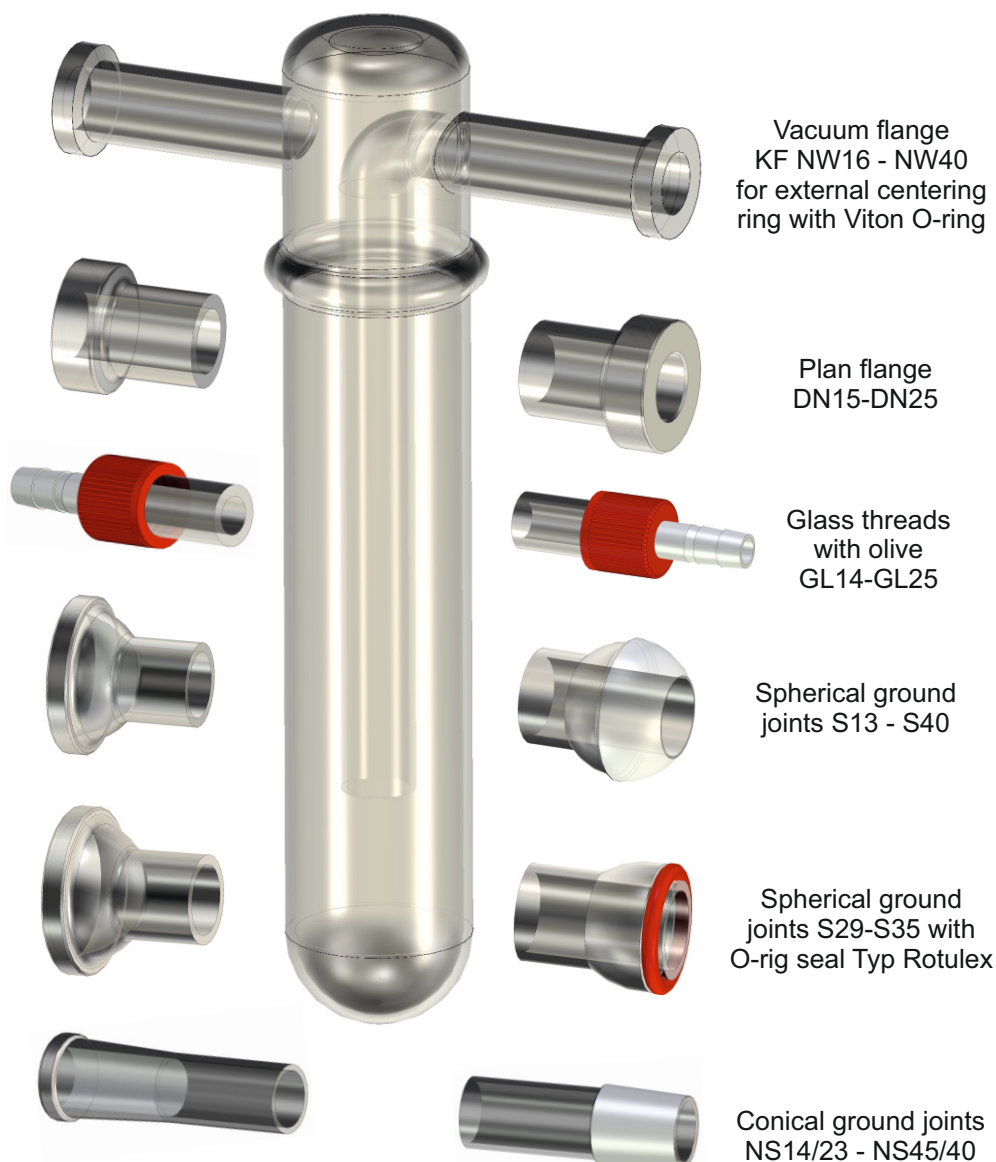
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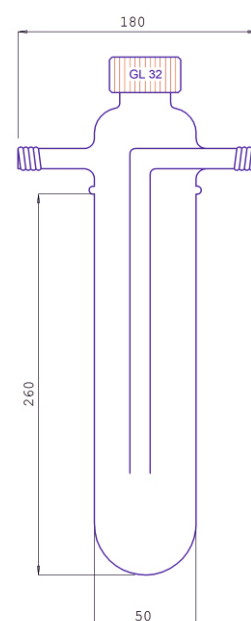
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Connection variants cold traps



Cold trap / Coldfinger
Type S 29-NW16-A



Cold trap / Coldfinger
Type SL 29-GL-A



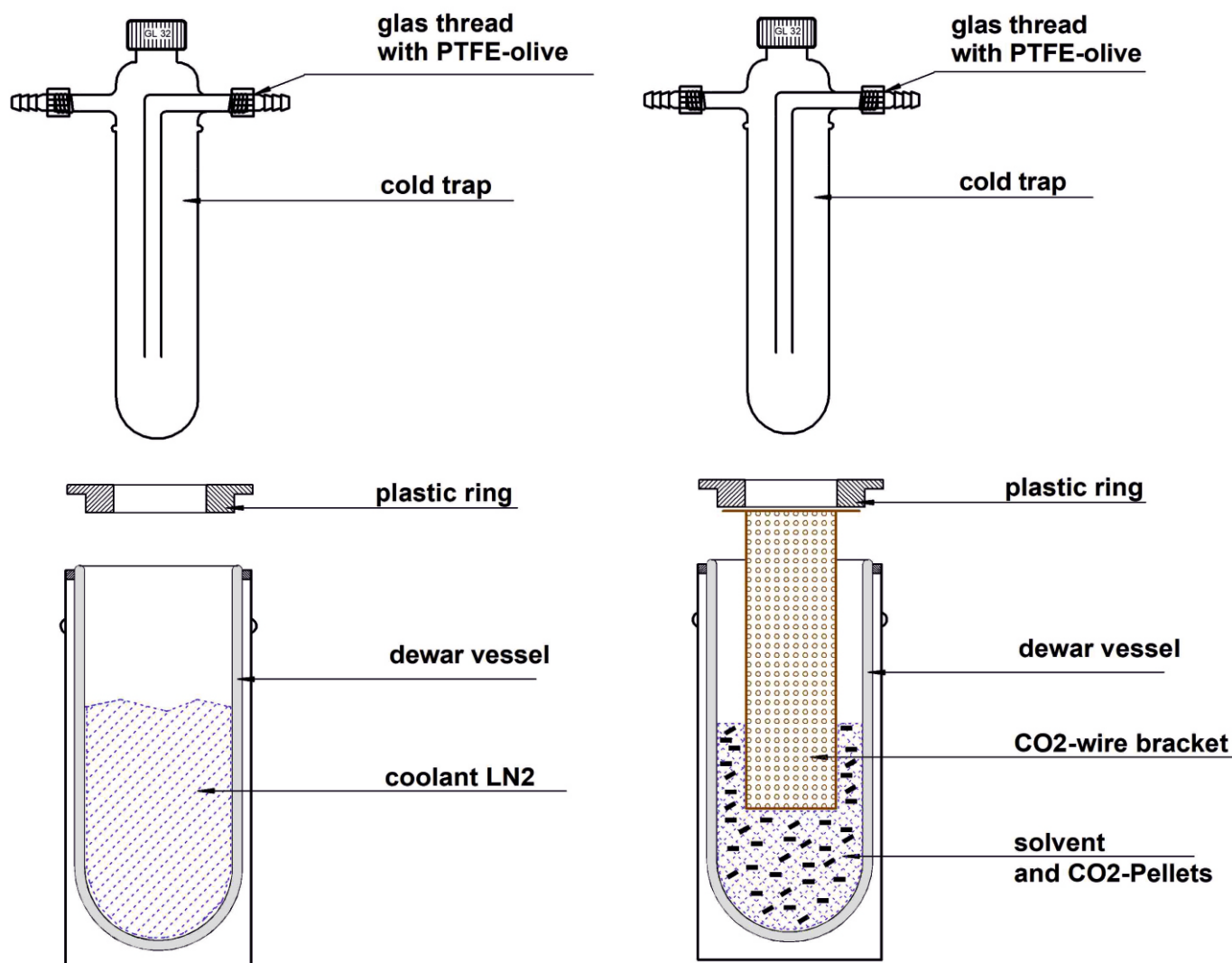
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CO2-wire bracket for dewar vessel Type

12 C

18 C