



NORMAG - LABORATORY GLASSWARE




## GENERAL

The used elements for frame work serve for supporting and bearing of apparatus and units. All parts are corrosion resistant, universal applicable and easy to use. The use refers only to the bearing of structurally acting weights which are common in laboratory. The frame system bases on the use of round tubes made of stainless steel (1.4541) and powder coated tube connectors in different designs. The tubes have an outer diameter of 26.9 mm and a wall thickness of 2.6 mm, the tube connectors are made of cast iron and powder coated. All tube connectors have hexagonal socket head fixing screws serving for fastening the tubes. Basic frame forms are square and rectangular and can be suited to the place conditions. Trays or supporting plates can be mounted in or at the frame for placing measuring instruments or other laboratory equipment. The sizes of these trays and supporting plates depend on the equipment to be placed. A safety bath, made of stainless steel, can be mounted at the bottom serving mainly as fire protection. Its size is subject to the frame diameter and the apparatus or unit in the frame. Frames can be fitted with structure feet or with rollers. To grant a safe standing of the unit, we recommend to choose lockable rollers. Depending on the apparatus or units, supporting clips, mounting clips, joint sockets, flange supports, supporting rings and special company specific supporting systems, mainly made of stainless steel, are used for fastening and securing. The connection of the individual components of the unit in the frame is effected, subject to the connecting system, with the intended screws and clips with the belonging seals. The mounting of an apparatus or unit in the frame must be in such a way, that a strain free securing of the components is guaranteed. Means for strain free mounting are compensating bends and bellows made of PTFE. The following individual elements for frame work, support and securing give an overall view about our range. If required, custom-made supporting elements are available.

## TUBING, STAINLESS STEEL

Tubes, made of stainless steel material No. 1.4541  
Outer diameter 26.9 mm, wall thickness 2.6 mm, surface finished, tube ends machined, fitted with plastic plugs.

 Please indicate the required length in your order.

Pack unit	Catalogue No.
1	VAB 09425 00



## TUBE CONNECTOR

Cast iron, for tubes with outer diameter 26.9 mm, powder coated and hexagonal socket head fixing screws.

### Tube connector for 2 tubes

Type	Pack unit	Catalogue No.
10-5	1	VAB 09431 01



### Tube connector for 2 tubes, one side open

Type	Pack unit	Catalogue No.
16-5	1	VAB 09432 01



# FRAME WORK

## Corner connector 90° for 3 tubes

Type	Pack unit	Catalogue No.
21-5	1	VAB 09433 01



## Tube connector for 2 or 3 tubes

Type	Pack unit	Catalogue No.
25-5	1	VAB 09434 01



## Connector, straight for 3 tubes

Type	Pack unit	Catalogue No.
26-5	1	VAB 09435 01



## Tee-connector for 4 tubes

Type	Pack unit	Catalogue No.
35-5	1	VAB 09436 01



## Cross connector for 4 tubes

Type	Pack unit	Catalogue No.
40-5	1	VAB 09437 01



## Tube connector for 2 tubes

Type	Pack unit	Catalogue No.
45-5	1	VAB 09438 01



## Tube connector for 3 tubes

Type	Pack unit	Catalogue No.
46-5	1	VAB 09439 01



## Tube connector for mounting of supporting rings

Type	Pack unit	Catalogue No.
M 50-5	1	VAB 09440 01



# FRAME WORK

Diagonal connector for 2 tubes,  
complete with screws

Type	Pack unit	Catalogue No.
C 50-55	1	VAB 09441 01



Diagonal connector for 3 tubes,  
complete with screws

Type	Pack unit	Catalogue No.
C 51-555	1	VAB 09442 01



Diagonal connector 90°  
for 3 tubes, complete with screws

Type	Pack unit	Catalogue No.
C 52-555	1	VAB 09443 01



Structure foot and wall support

Type	Pack unit	Catalogue No.
61-5	1	VAB 09444 01



## Structure foot

Type	Pack unit	Catalogue No.
62-5	1	VAB 09445 01



## Structure foot and wall support

Type	Pack unit	Catalogue No.
70-5	1	VAB 09446 01



## Replacement Allen key

Type	Pack unit	Catalogue No.
99-5	1	VAB 09451 01



## Diagonal connector for 2 tubes with outer diameter 26.9 mm

Type	Pack unit	Catalogue No.
12-5	1	VAB 09454 01



# FRAME WORK

## TRAYS

Trays made of stainless steel No. 1.4571, thickness 2 mm, with 4 recesses  
- for tubes outer diameter 26.9 mm

Dimensions (mm)	Pack unit	Catalogue No.
500 x 375	1	VAB 09455 01
500 x 500	1	VAB 09455 02
500 x 750	1	VAB 09455 03
500 x 1000	1	VAB 09455 04
750 x 750	1	VAB 09455 05
750 x 1000	1	VAB 09455 06



## ROLLER FOR FRAMES

lockable, outer diameter 26.9 mm

Pack unit	Catalogue No.
1	VAB 09460 01

Frame feet must be ordered separately.



not lockable, outer diameter 26.9 mm

Pack unit	Catalogue No.
1	VAB 09460 02

Frame feet must be ordered separately.



## SAFETY BATH

made of stainless steel, for installation in frames.

Length x Depth x Height (mm)	Pack unit	Catalogue No.
500 x 500 x 150	1	VAB 09466 01
750 x 500 x 150	1	VAB 09466 02
1000 x 500 x 150	1	VAB 09466 03
1000 x 750 x 150	1	VAB 09466 04
1500 x 750 x 150	1	VAB 09466 05





## STAND ACCESSORIES FOR TUBES

### Mounting clip for round tube

divided on one side for round tube with outer diameter 26.9 mm  
other side closed with fixing screw for round tube, outer diameter 26.9 mm

Pack unit	Catalogue No.
1	VAB 09470 01



### Mounting clip for round tube

divided on one side for round tube outer diameter 26.9 mm  
other side closed with fixing screw for round tube diameter 15 mm

Pack unit	Catalogue No.
1	VAB 09470 02



### Key for mounting clip

Pack unit	Catalogue No.
1	VAB 09471 01



### Joint socket

made of cast iron for width up to 36 mm

Pack unit	Catalogue No.
1	VAB 09472 01



# FRAME WORK

## FLANGE MOUNTINGS

for strain free assembly of ball and flat flanges with welded on tube, outer diameter 26.9 mm, length approx. 300 mm, complete with suspending springs, made of stainless steel

Flange (DN)	Pack unit	Catalogue No.
50	1	VAB 09474 01
80	1	VAB 09474 02



## SUPPORTING RING

open to front side, with welded on hexagonal socket head, with inner screw M 12, enwrapped with rubber

Pack unit	Catalogue No.
1	VAB 09476 02



## RUBBER STOPPER

for sealing of tubes, outer diameter 26.9 mm

Pack unit	Catalogue No.
1	VAB 09479 00



## STAND BARS

with external thread M 12, stainless steel, outer diameter 15 mm

L (mm)	Pack unit	Catalogue No.
150	1	VAB 09480 01
250	1	VAB 09480 02
300	1	VAB 09480 03
350	1	VAB 09480 04
400	1	VAB 09480 05



## SUPPORTING CLIPS

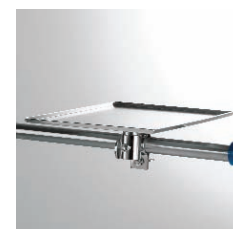
made of stainless steel with mounted ceramic band



<b>D (mm)</b>	<b>Pack unit</b>	<b>Catalogue No.</b>
26	1	VAB 09477 01
34	1	VAB 09477 02
38	1	VAB 09477 03
46	1	VAB 09477 04
52	1	VAB 09477 05
54	1	VAB 09477 06
64	1	VAB 09477 07
74	1	VAB 09477 08
79	1	VAB 09477 09
89	1	VAB 09477 10
94	1	VAB 09477 51
104	1	VAB 09477 52
109	1	VAB 09477 53
114	1	VAB 09477 54
124	1	VAB 09477 55
144	1	VAB 09477 56

## SUPPORTING PLATES

made of stainless steel



<b>Length x Depth (mm)</b>	<b>Pack unit</b>	<b>Catalogue No.</b>
145 x 145	1	VAB 09478 01
220 x 290	1	VAB 09478 02