

SPECIFICATION

- Aluminium **AL**
- anodized, natural colour **EL**

Hinge pins / washers
Stainless Steel 304

Friction bearing

Plastic

self lubricated

temperature resistant -40 °C to 90 °C

TECHNICAL DATA

The maximum load of the multiple-joint hinge specified below applies to the standard use cases and serves for orientation in the case of deviating applications. The resulting forces lead to slight elastic deformation, which can be compensated for by means of the adjustment options, if necessary.

FEATURES AND APPLICATIONS

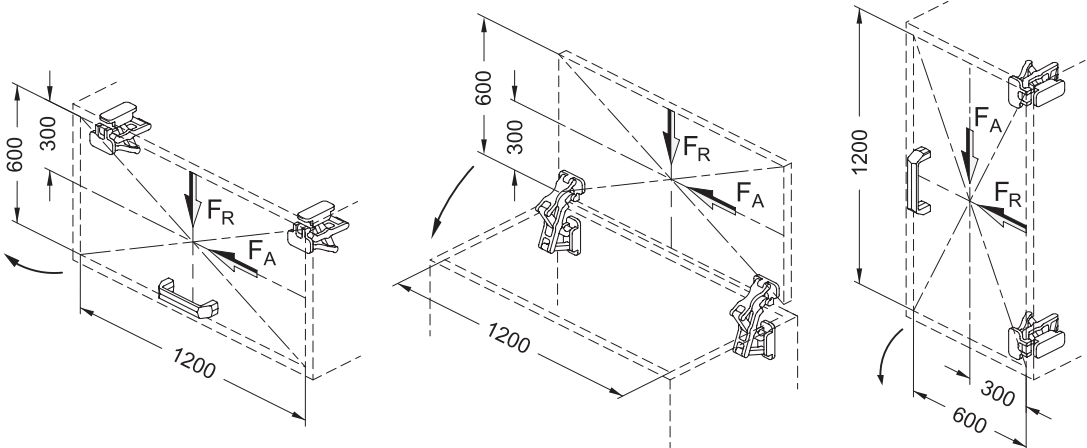
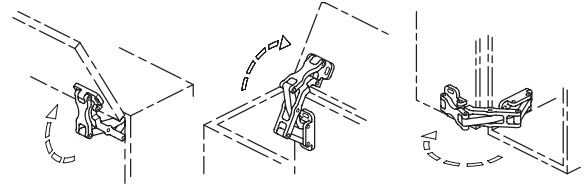
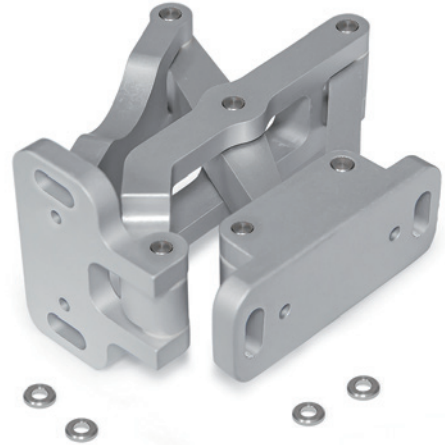
The multiple-joint hinge GN 7247 is installed on the inside of doors, flaps and hatches to save space and ensure protection against vandalism. The hinge has a maximum opening angle of 180°, which provides optimal accessibility and avoids the blocking of escape routes by open doors, for example.

Use of this hinge type leaves housing exteriors free of attachments that do not match the design or that should be avoided entirely in the interests of fast and easy cleaning.

Multiple-joint hinges are generally used in pairs. For higher loads, e.g. from large doors, these can be supplemented with additional hinges. Four reinforced washers are supplied, which can be used with fastening screws of thread size M6.

ON REQUEST

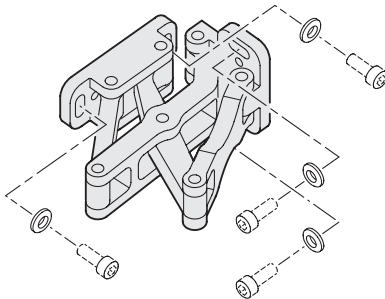
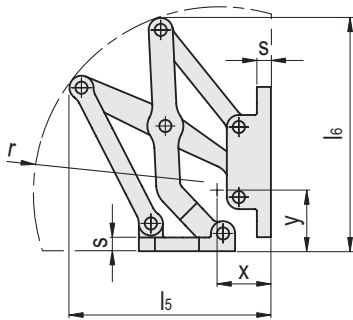
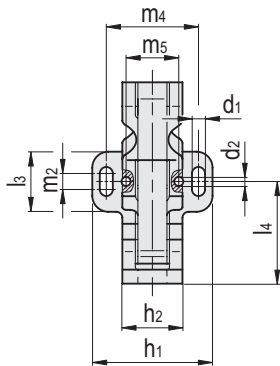
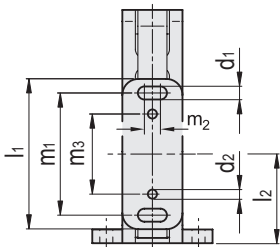
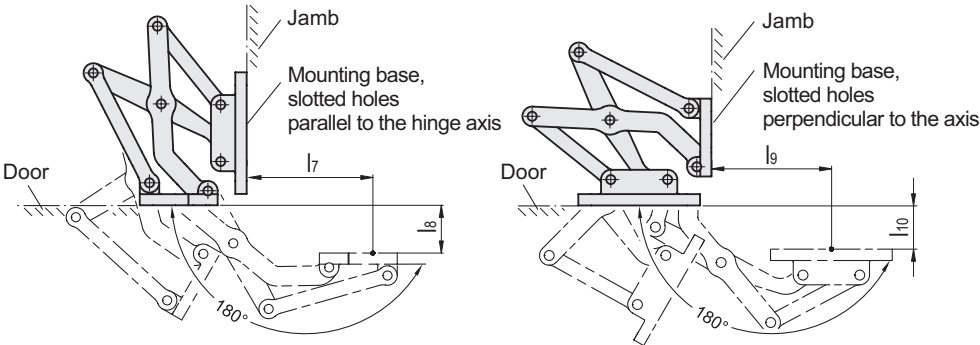
- other finishes / colors
- other fastening flanges
- other opening angles
- other max. wall thicknesses
- other lifting motion



Resistance tests	Axial Stress	Radial Stress
Description	FA [N]	Fr [N]
GN 7247-75	650	750

INSTALLATION AND HINGE PIVOT TYPE

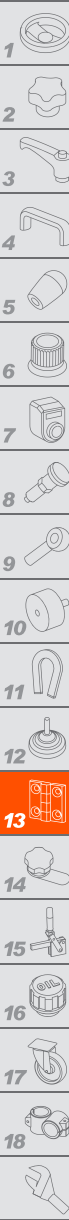
The multiple-joint hinges can be installed to the housing with the slots on the fastening flanges either parallel or perpendicular to the hinge axis. This results in the two pivot characteristics depicted.



Conversion Table	
1 mm = 0.039 inch	
l1	
mm	inch
75	2.93

Code	Description	h1	l1	l2	d1	d2	h2	l3	l4	l5	l6	l7	l8	l9	l10	m1	m2	m3	m4	m5	r	s	x	y	Δ
GN.72435	GN 7247-AL-75-EL	60	75	44.5	6.5	4	30	30	51	100.5	116.5	74.3	29.5	74	27	61	8	40	46	28	93	7	26	29	320

METRIC



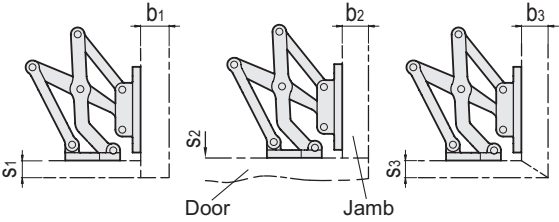
DESIGN VARIANTS

Doors, flaps and hatches can be inset, flush or mitered. The maximum wall thicknesses and bend sizes for sheet metal constructions given below arise from the respective installation type.

- Fastening flange mounted to the housing with slots parallel to the hinge axis (see Fig.1).
- Fastening flange mounted to the housing with slots perpendicular to the hinge axis (see Fig.2).

The design variants shown represent standard installation conditions. If the installation position of the hinge is changed or one of the two wall thickness dimensions is lower than s or b , the maximum achievable dimensions change independently of each other. This makes it possible in some cases to work with larger wall thickness dimensions than those specified with the same hinge size. A simple design check via CAD or a test setup is therefore recommended.

Fig.1



Description	s1 max.	b1	s2	b2 max.	s3 max.	b3 max.
GN 7247-75	15	24	1 ... ∞	8	11	11

ADJUSTMENT AND FIXING OPTIONS

The multiple-joint hinges can be adjusted in three planes during installation. For example, this allows adjustment for tolerances or establishing of required compressive forces for seals.

Two planes can be adjusted via parallel or perpendicular slots in the fastening flanges. In the third plane, position corrections can be made using the Stainless Steel-Spacer plates GN 7247.2 (see page -). Stainless Steel-Plates with tapped holes GN 7247.4 (see page -) as well as Stainless Steel-Plates with threaded studs GN 7247.6 (see page -) are also available for fastening the hinges. The latter can be welded on or inserted through the wall from the outside and fastened in place. The holes $d2$ receive tensioning or positioning pins, making it easy to position the hinge. This also prevents unintended turning or slipping under load. The pins cannot be removed for subsequent adjustment.

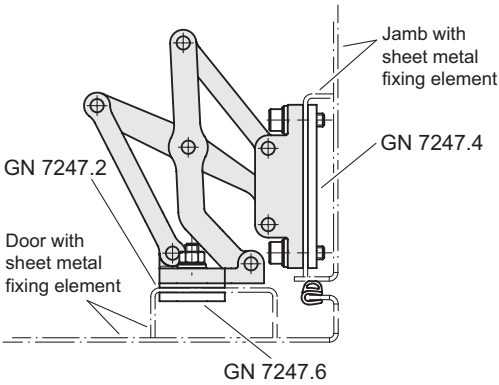
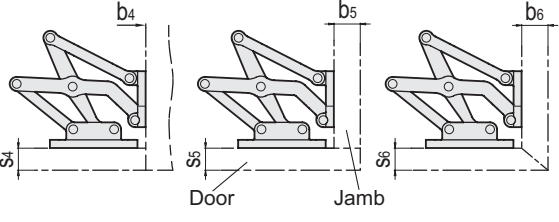


Fig.2



Description	s4 max.	b4	s5	b5 max.	s6 max.	b6 max.
GN 7247-75	8	1 ... ∞	24	15	11	11

