

GN 7237

Stainless Steel-Multiple-joint hinges

inside, opening angle 180°



Specification

Types

- Type **L**: Fixing angle piece left
- Type **R**: Fixing angle piece right

Stainless Steel **NI**

- AISI 304
- matte, tumbled finish **MT**

Friction bearing

Bronze

self lubricated

Information

Stainless Steel-Multiple-joint hinges GN 7237 are installed on the inside of flaps, hatches and doors to save space and ensure protection against vandalism. The hinges have 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.

Stainless Steel-Multiple-joint hinges are generally used in pairs, meaning that one type L and one type R are used per opening. For higher loads, e.g. from large hatches, these can be supplemented with additional hinges of either type.

Technical information

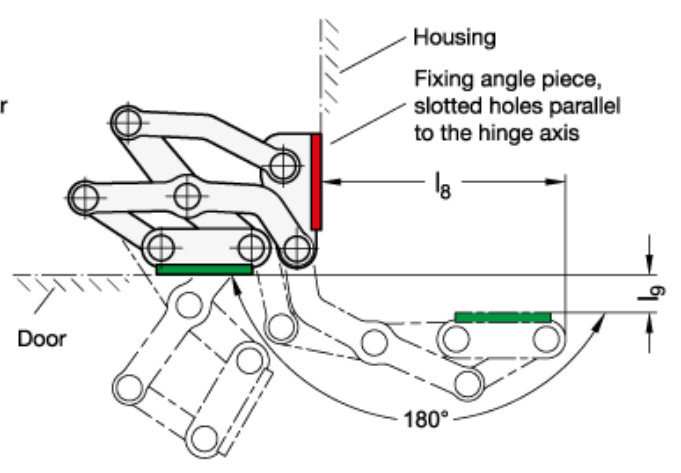
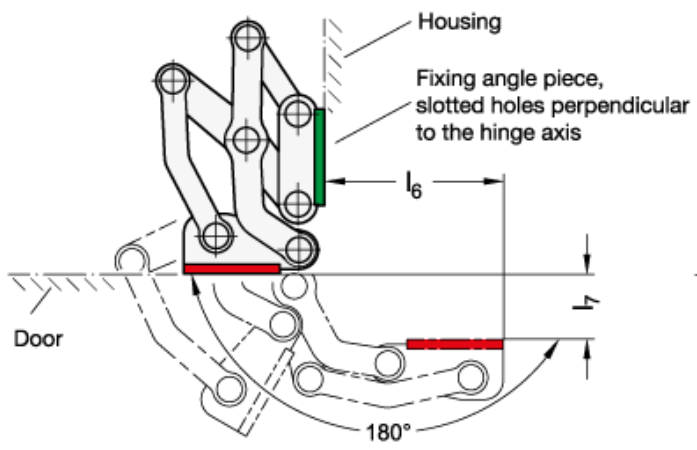
- [Stainless Steel characteristics](#)

On request

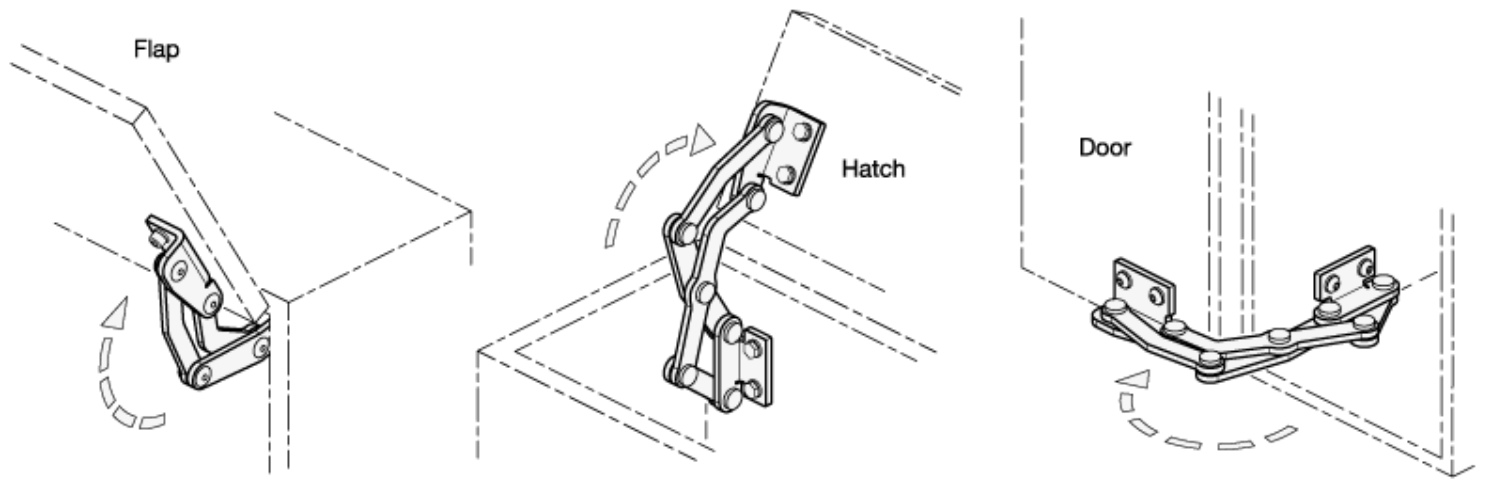
- other opening angles
- other fixing angle pieces
- other materials
- other finishes
- other max. wall thicknesses
- other lifting motion
- with pneumatic spring connection

Installation position – pivot characteristics

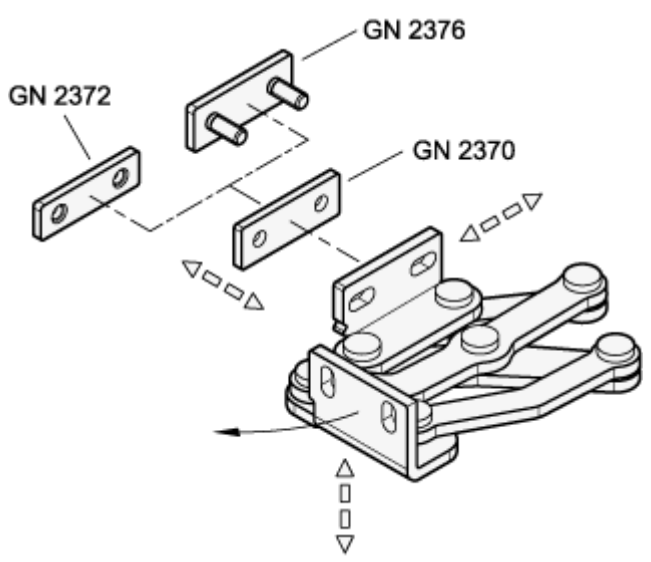
The Stainless Steel-Multiple-joint hinges can be installed to the housing either with slotted holes on the fixing angle piece that are either perpendicular or parallel to the hinge axis. This results in the two pivot characteristics depicted.



Application examples



Adjustment and fastening options



The Stainless Steel-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.

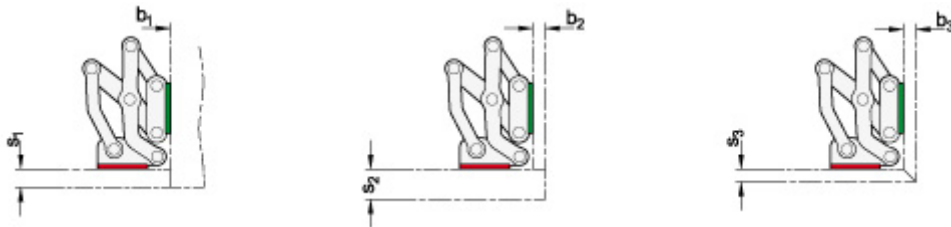
Two planes can be adjusted via parallel or perpendicular slotted holes in the fixing angle pieces. In the third plane, position corrections can be made using the Stainless Steel-Spacer plates [GN 2370](#).

Stainless Steel-Plates with tapped holes [GN 2372](#) as well as Stainless Steel-Plates with threaded studs [GN 2376](#) 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. All accessory items are designed for use with both fixing angle pieces.

Design variants

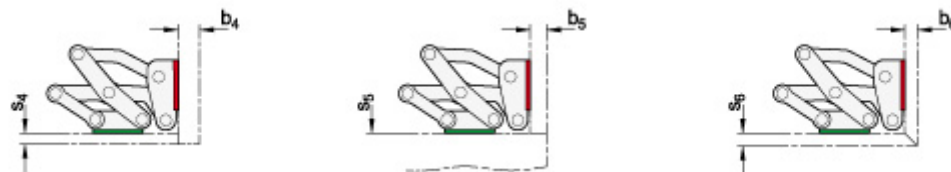
Flaps, hatches and doors can be inset, surface-mounted or mitered. The maximum wall thicknesses and bend sizes for planned sheet metal constructions arise from the respective installation type.

1. Fixing angle pieces mounted to the housing with slotted holes perpendicular to the hinge axis:



l_1	s_1 max.	b_1 max.	s_2 max.	b_2 max.	s_3 max.	b_3 max.
40	13	1 ... ∞	24	10	10	10
50	19	1 ... ∞	34	17	16	16
60	25	1 ... ∞	44	24	21	21

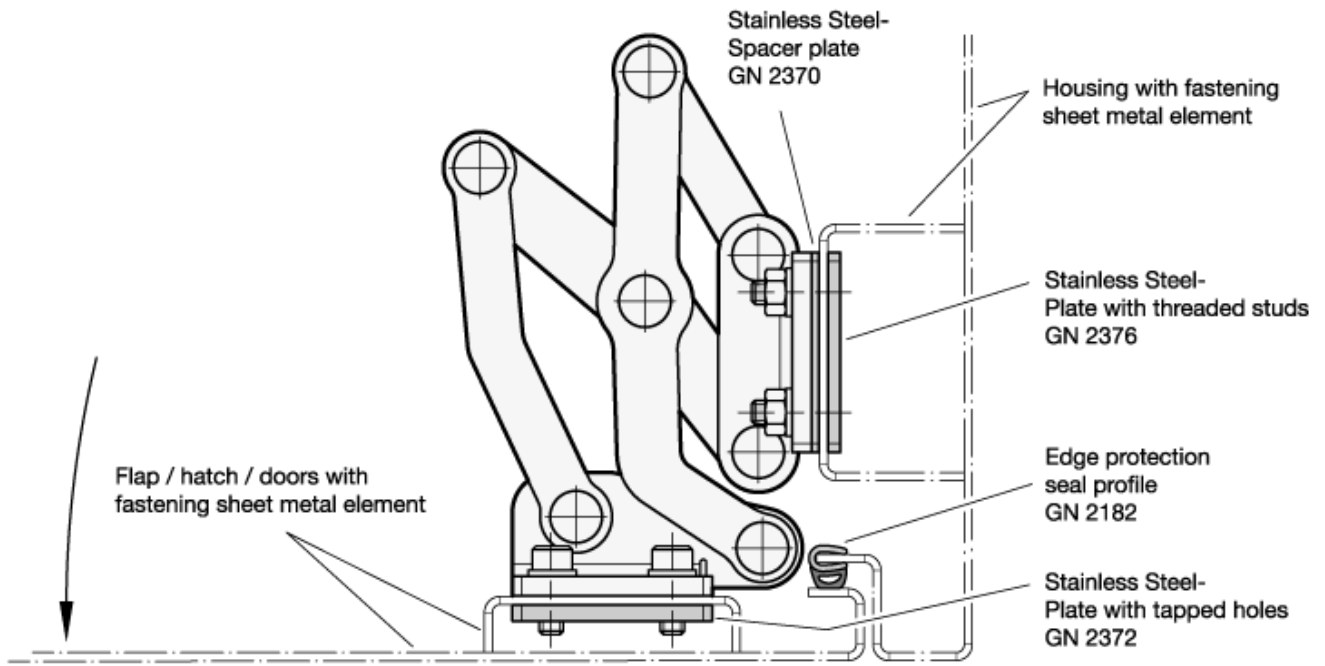
2. Fixing angle pieces mounted to the housing with slotted holes parallel to the hinge axis:



l_1	s_4 max.	b_4 max.	s_5	b_5 max.	s_6 max.	b_6 max.
40	9	27	1 ... ∞	13	10	10
50	17	35	1 ... ∞	19	16	16
60	23	45	1 ... ∞	25	21	21

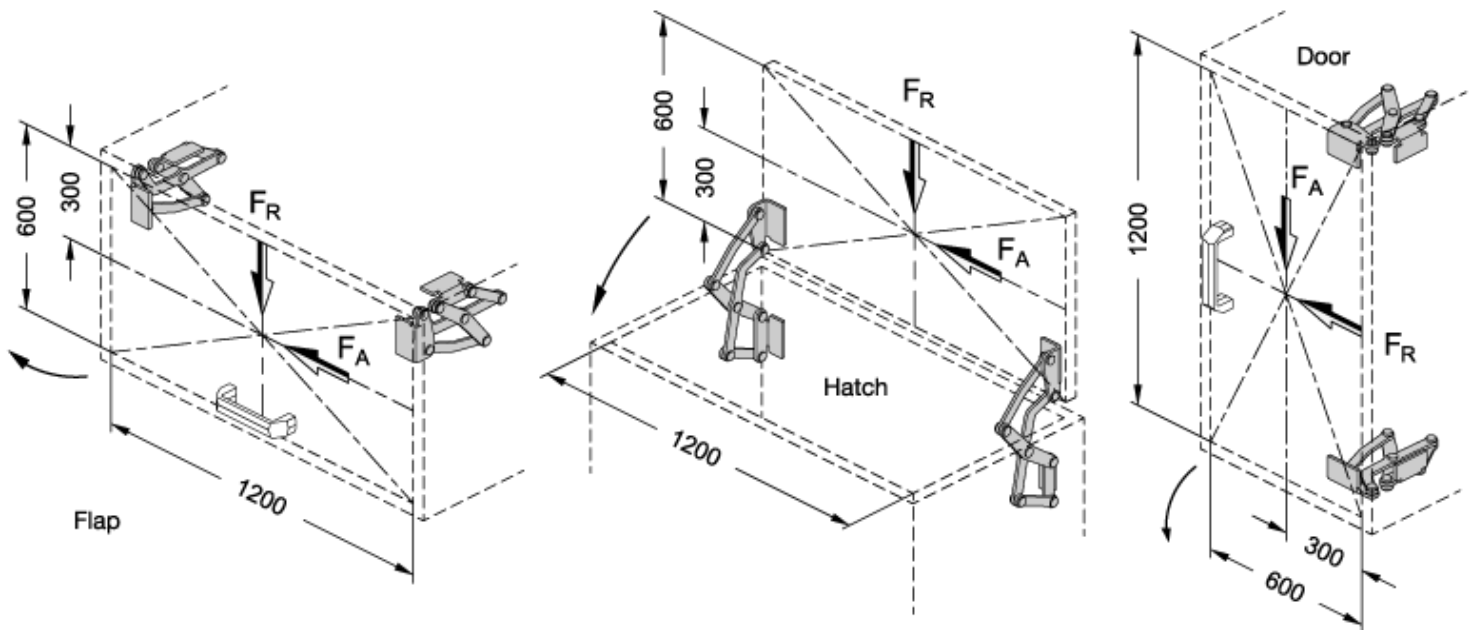
The design variants shown represent standard installation conditions. If the installation position of the hinge is changed or one of the two wall thickness dimensions s or b are lower, the maximum achievable dimensions change independently of each other. This makes it possible in some cases to work with 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.

Construction assembly



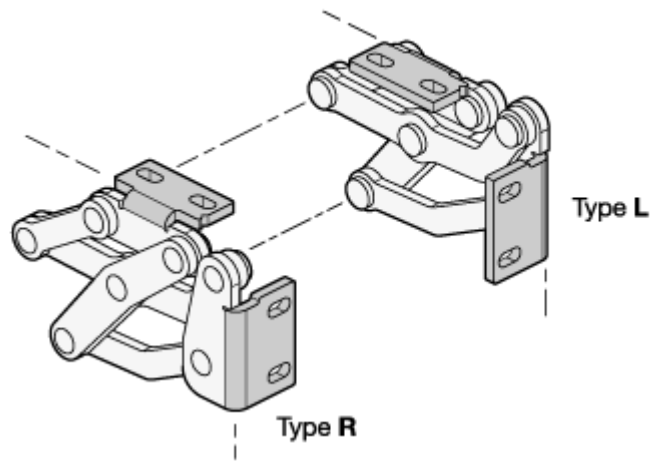
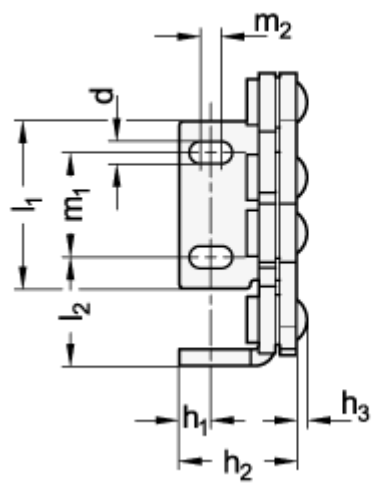
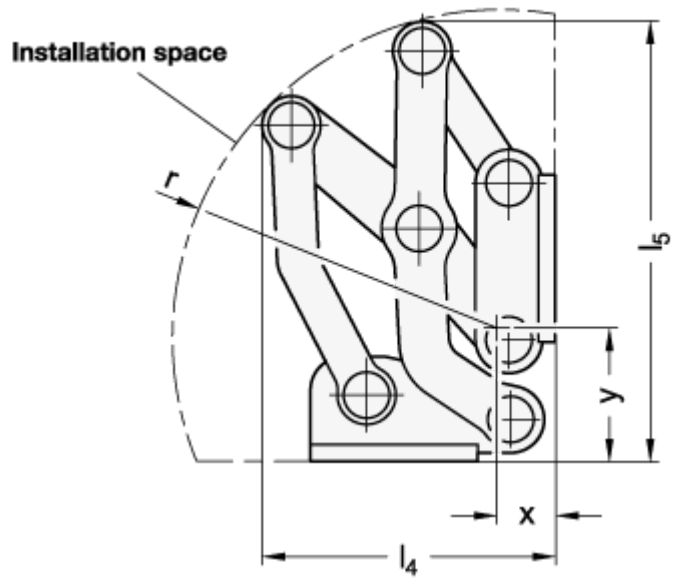
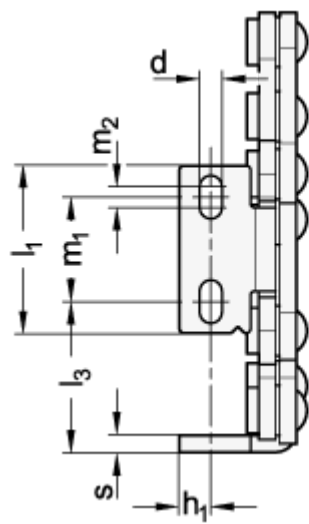
Load capacity

The maximum load of the Stainless Steel-Multiple-joint hinges 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.



Load capacity per hinge pair in N

l_1	F_A (axial)	F_R (radial)
40	100	160
50	100	250
60	100	250



GN 7237

Description	l_1	d	h_1	h_2	h_3	l_2	l_3	l_4	l_5	l_6	l_7	l_8	l_9	m_1	m_2	r	s	x	y	Weight
GN 7237-NI-40-L-MT	40	5.3	7.5	28	2.5	26	36	70.1	105.2	74.5	27.4	101.9	16	25	5	78.5	4	13	29.5	250
GN 7237-NI-50-L-MT	50	6.5	10	35	2.5	35	46	92.3	140	102.8	39.3	134.7	27.8	30	6	105	5	18	38	550
GN 7237-NI-60-L-MT	60	8.5	12.5	40	2.5	40	61	116.5	179.5	125.2	72.2	172.2	37.2	36	8	137.5	5	19	47	700
GN 7237-NI-40-R-MT	40	5.3	7.5	28	2.5	26	36	70.1	105.2	74.5	27.4	101.9	16	25	5	78.5	4	13	29.5	250
GN 7237-NI-50-R-MT	50	6.5	10	35	2.5	35	46	92.3	140	102.8	39.3	134.7	27.8	30	6	105	5	18	38	550
GN 7237-NI-60-R-MT	60	8.5	12.5	40	2.5	40	61	116.5	179.5	125.2	72.2	172.2	37.2	36	8	137.5	5	19	47	700