

ROSTFREI **Rost freit** [®]
Inox
Stainless
Steel

3 Type

- L** Fixing angle piece, left
- R** Fixing angle piece, right

2

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
40	5,3	7,5	28	2,5	26	36	79	96	33,8	65,9	27,9	77,4	25	5	70	4	23	30,5
50	6,5	10	35	2,5	35	46	105	135	79,3	82	2,8	113,3	30	6	105	5	20	37
60	8,5	12,5	40	2,5	40	61	130	169	87,5	107,5	17,4	147,1	36	8	125	5	34	50

Specification

- Stainless steel AISI 304 **NI**
- Matte finish, ground **MT**
- Friction bearing
- Bronze
- Self lubricated
- *Stainless Steel Characteristics* → Page 2166
- **RoHS**

On request

- Other materials
- Other finishes
- Other fixing angle pieces
- Other opening angles
- Other max. wall thicknesses
- Other lifting motion

1

4

Information

Multiple-joint hinges GN 7233 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 120°, allowing for easy accessibility and making them suitable for use with medium-thick doors.

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, meaning that one L type and one R type are used per opening. For higher loads, e.g. from large flaps or hatches, these can be supplemented with additional hinges of any type.

see also...

- *Spacer Plates GN 2370* → Page 1350
- *Plates GN 2372 (with Tapped Holes)* → Page 1351
- *Plates GN 2376 (with Threaded Studs)* → Page 1352

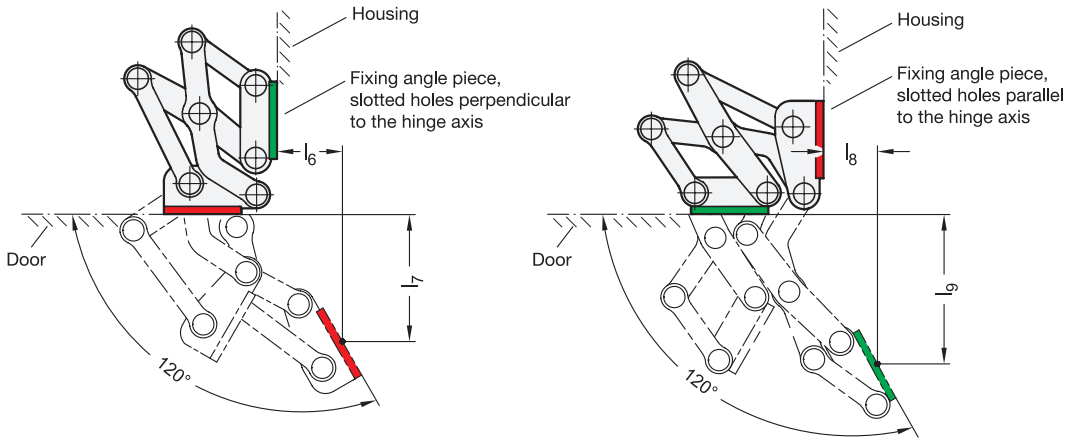
How to order

GN 7233-NI-60-L-MT

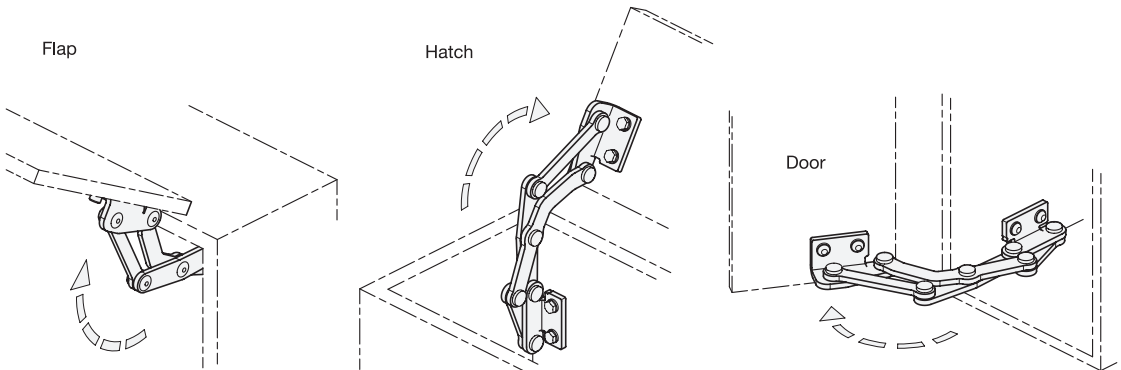
- 1** Material
- 2** l_1
- 3** Type
- 4** Finish

Installation position - pivot characteristics

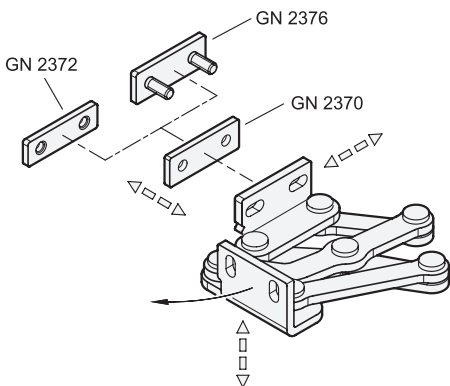
The multiple-joint hinges can be installed on the housing with the slots of the fixing angle piece oriented either perpendicular or parallel to the hinge axis. This results in the two pivot characteristics depicted.



Examples of use



Adjustment and fastening options



The multiple-joint hinges can be adjusted in three planes during installation. For example, this allows tolerances to be adjusted or the required compressive forces for seals to be established. Two planes can be adjusted via the parallel or perpendicular slots in the fixing angle pieces. In the third plane, position corrections can be made using the spacer plates GN 2370.

Plates with tapped holes GN 2372 as well as 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.

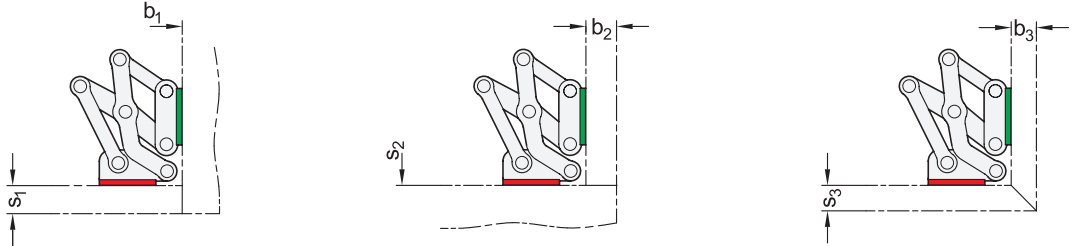
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3.9



Design variants

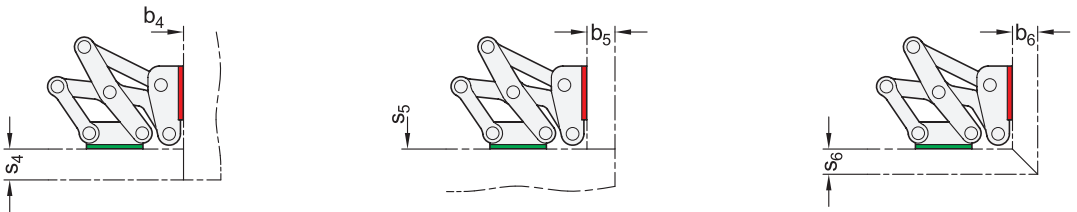
Flaps, hatches and doors can be inset, flush or mitered. The maximum wall thicknesses and bend sizes for sheet metal constructions given below arise from the respective installation type.

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



l_1	s_1 max.	b_1	s_2 max.	b_2 max.	s_3 max.	b_3 max.
40	20	1 ... ∞	1 ... ∞	22	18	18
50	25	1 ... ∞	1 ... ∞	38	30	30
60	32	1 ... ∞	1 ... ∞	50	40	40

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

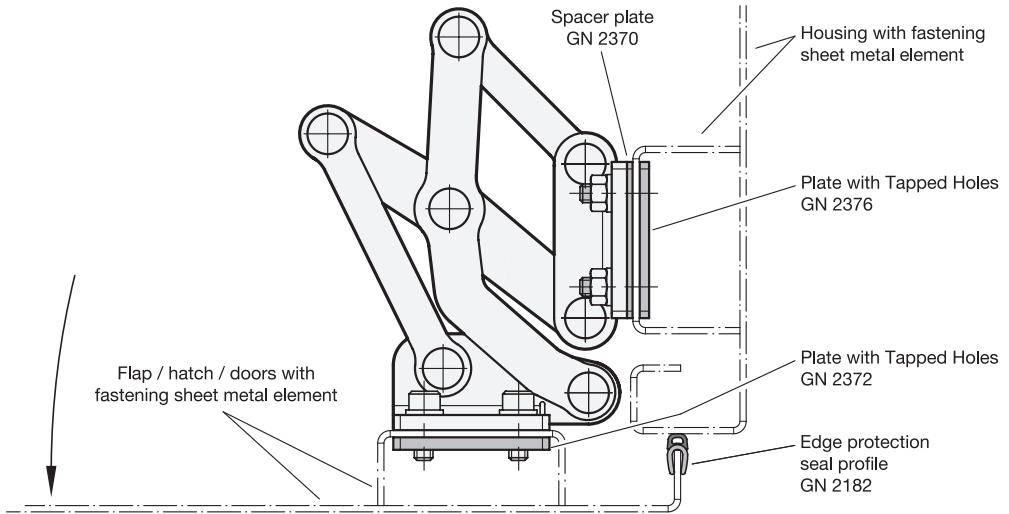


l_1	s_4 max.	b_4 max.	s_5	b_5 max.	s_6 max.	b_6 max.
40	22	1 ... ∞	1 ... ∞	20	18	18
50	38	1 ... ∞	1 ... ∞	25	30	30
60	50	1 ... ∞	1 ... ∞	32	40	40

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.

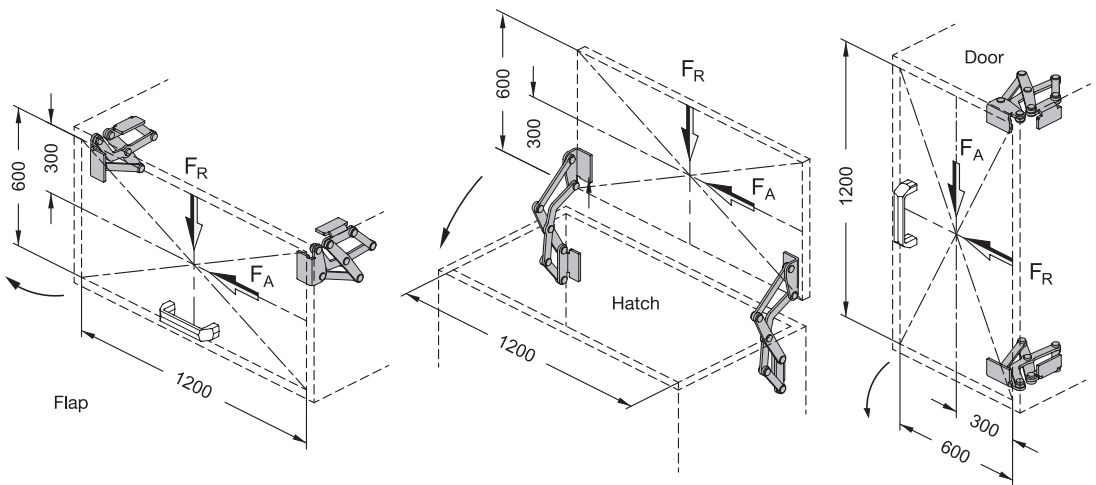


Example of an assembly



Load capacity

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.



Max. load capacity per hinge pair in N		
l_1	F_A (axial)	F_R (radial)
40	175	650
50	175	750
60	150	550

3.1
3.2
3.3
3.4
3.5
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3.7
3.8
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