



SS Stainless

🕴 Туре

- L Left-hand assembly angle bracket
- R Right-hand assembly angle bracket

Metric table

4																		
I ₁	d	h ₁	h ₂	h ₃	I ₂	I ₃	I ₄	I ₅	I ₆	I ₇	I ₈	l ₉	m ₁	m ₂	r	s	х	У
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
1.57	0.21	0.30	1.10	0.10	1.02	1.42	2.76	4.14	2.93	1.08	4.01	0.63	0.98	0.20	3.09	0.16	0.51	1.16
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
1.97	0.26	0.39	1.38	0.10	1.38	1.81	3.63	5.51	4.05	1.55	5.30	1.09	1.18	0.24	4.13	0.20	0.71	1.50
60	8.5	12.5	40	2.5	40	61	116.5	179.5	125.2	51.3	172.2	37.2	36	8	137.5	5	19	47
2.36	0.33	0.49	1.57	0.10	1.57	2.40	4.59	7.07	4.93	2.02	6.78	1.46	1.42	0.31	5.41	0.20	0.75	1.85

Specification	Q	4
• Body		
Stainless steel AISI 304	NI	
Matte, tumbled finish		MT

- Friction bearing
- Bronze, self-lubricated

Stainless Steel Characteristics → page 2143

RoHS compliant

Accessory

- Spacer plates GN 2370 → page QVX
- Spacer plates with tapped holes GN 2372 → page QVX
- Mounting plates with threaded studs GN 2376 → page QVX

On request

- Other materials
- Other finishes
- Other assembly angle brackets
- Other opening angles
- Other max. wall thicknesses
- Other lifting motion

Information

GN 7237 multiple-joint hinges 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.

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

see also ...

- Multiple-Joint Hinges GN 7231 (Stainless Steel) → page QVX
- Multiple-Joint Hinges GN 7233 (Stainless Steel) → page QVX

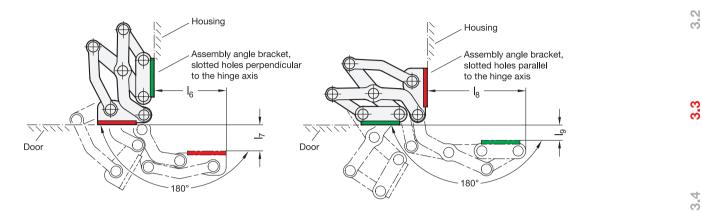
How to order	1 Material
	2 Length I ₁
	3 Туре
GN 7237-NI-40-L-MT	4 Finish

GN 7237 Multiple-Joint Hinges continued (2/4)

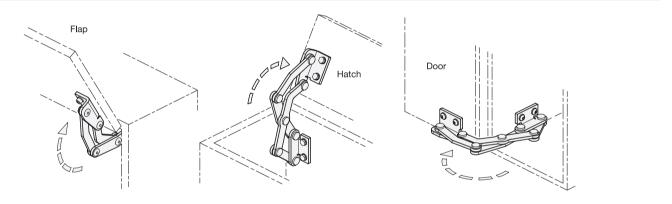


Installation position - pivot characteristics

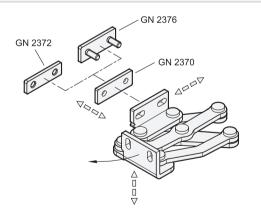
Multiple-joint hinges can be installed on the housing with the slotted holes of the assembly angle brackets that are either perpendicular or parallel to the hinge axis. This results in the two pivot characteristics depicted.



Application examples



Adjustment and mounting options



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

Two planes can be adjusted via parallel or perpendicular slotted holes in the assembly angle brackets. In the third plane, position corrections can be made using GN 2370 spacer plates.

GN 2372 spacer plates with tapped holes as well as GN 2376 mounting plates with threaded studs are also available for mounting 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 assembly angle brackets.

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3.00 0.00

3.9

3.10

G

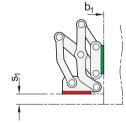
GN 7237 Multiple-Joint Hinges continued (3/4)

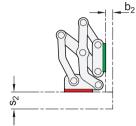


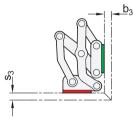
Design variants

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. Assembly angle brackets mounted to the housing with slotted holes perpendicular to the hinge axis:

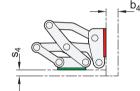


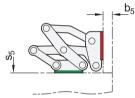


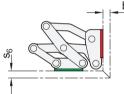


l ₁	S _{1 max} .	b ₁	S _{2 max} .	b _{2 max} .	S _{3 max} .	b _{3 max} .
40	13	1 ~~	24	10	10	10
1.57	0.51	1∞	0.94	0.39	0.39	0.39
50	19	1∞	34	17	16	16
1.97	0.75	1	1.34	0.67	0.63	0.63
60	25	4	44	24	21	21
2.36	0.98	1∞	1.73	0.94	0.83	0.83

2. Assembly angle brackets mounted to the housing with slotted holes parallel to the hinge axis:

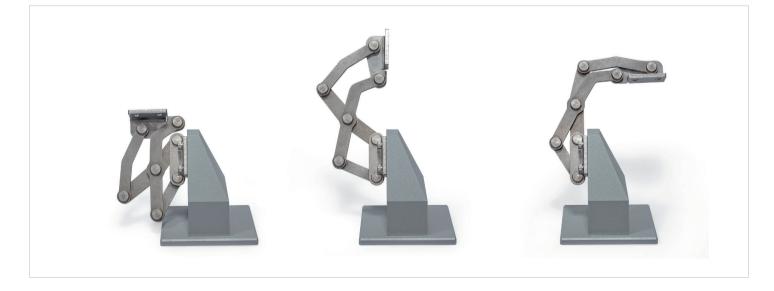






l ₁	S _{4 max} .	b _{4 max} .	S ₅	b _{5 max} .	S _{6 max} .	b _{6 max} .	
40	9	27	1	13	10	10	
1.57	0.35	1.06	1∞	0.51	0.39	0.39	
50	17	35	1	19	16	16	
1.97	0.67	1.38	1∞	0.75	0.63	0.63	
60	23	45	1	25	21	21	
2.36	0.91	1.77	1∞	0.98	0.83	0.83	

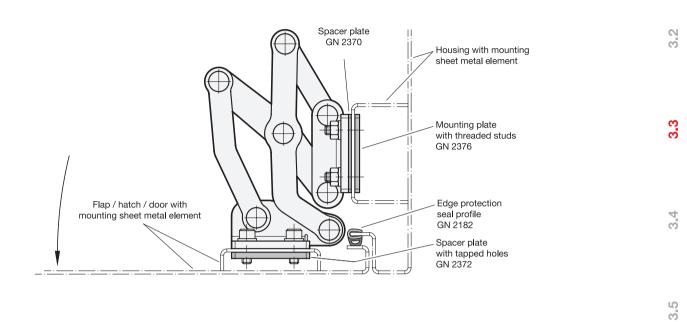
The design variants shown represent standard installation conditions. If the installation position of the hinge is changed or one of the two wall thickness dimensions s or b are lower, the maximum achievable dimensions change independently of each other. This makes it possible in some cases to work with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





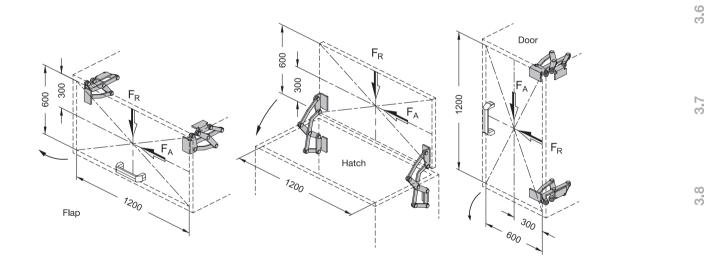
3.1 S

Construction example



Load capacity

The maximum load of the 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.



Max. load capacity per hinge pair						
I ₁	F _A (axial)	F _R (radial)	3.0			
40	175 N	650 N				
1.57	39.34 lbf	146.13 lbf				
50	175 N	750 N				
1.97	39.34 lbf	168.61 lbf				
60	150 N	550 N	9			
2.36	33.72 lbf	123.65 lbf	3.1			

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