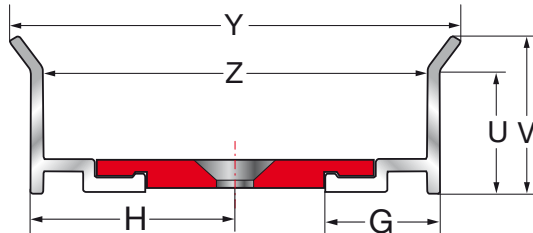


Variable guide channel system, type VAW 25, one-piece inside clamping



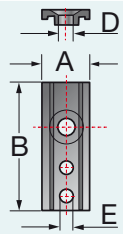
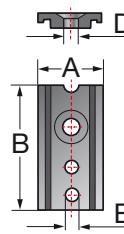
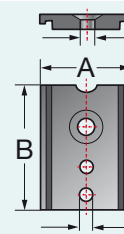
One-piece inside clamping:
the channel side sections on both sides are secured to the mounting surface using a clamping piece.

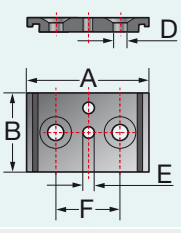
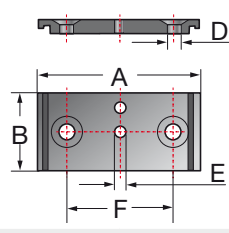
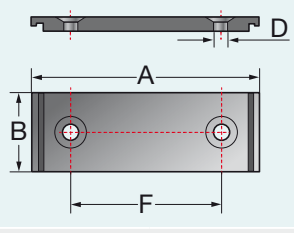
Z = See VAW-DBP table
Y = VAW 25 outside width for one-piece inside clamping

V = 0.98 inch
U = 0.79 inch
G = 0.42 inch
H = See VAW-DBP table

See page 312 for further details of channel clearance (SP)

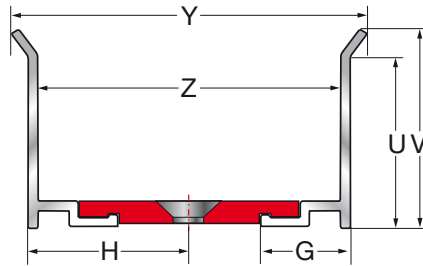
Guide channel side section	
Type	VAW 25
length	78.74 in. (2000 mm)
Order no.	1114101907004

Distance fixing plate	VAW-DBP 14016	VAW-DBP 1420/18018	VAW-DBP 1430/18025
Dimensional drawing			
Order no.	111212220000	111212240000	111212260000
Dimensions in inch	A = 0.55 B = 1.46	A = 0.74 B = 1.46	A = 1.07 B = 1.46
Ø Bore holes / spacing in inch	D = 0.20 E = 0.17	D = 0.20 E = 0.17	D = 0.20 E = 0.17
Channel dimensions	Z = 1.02 Y = 1.34 H = 0.56	Z = 1.22 Y = 1.54 H = 0.65	Z = 1.54 Y = 1.85 H = 0.82
suitable for CDC types with outside widths	from 0.87 to 0.94 inch	from 1.06 to 1.14 inch	from 1.38 to 1.46 inch

Distance fixing plate	VAW-DBP 14040/18037	VAW-DBP 14050/18050	VAW-DBP 18070
Dimensional drawing			
Order no.	111212280000	111212300000	111212320000
Dimensions in inch	A = 1.50 B = 0.98	A = 2.04 B = 0.98	A = 2.83 B = 0.98
Ø Bore holes / spacing in inch	D = 0.20 ; E = 0.14 ; F = 0.79	D = 0.20 ; E = 0.14 ; F = 1.34	D = 0.20 F = 1.89
Channel dimensions	Z = 1.97 Y = 2.28 H = 0.64	Z = 2.52 Y = 2.83 H = 0.63	Z = 3.31 Y = 2.44 H = 0.75
suitable for CDC types with outside widths	from 1.81 to 1.89 inch	from 2.36 to 2.44 inch	from 3.15 to 3.23 inch



Variable guide channel system, type VAW 35, one-piece inside clamping



One-piece inside clamping:
the channel side sections on both sides are secured to the mounting surface using a clamping piece.

Z = See VAW-DBP table
Y = VAW outside width for one-piece inside clamping

V = 1.38 inch

U = 1.18 inch

G = 0.71 inch

H = See VAW-DBP table

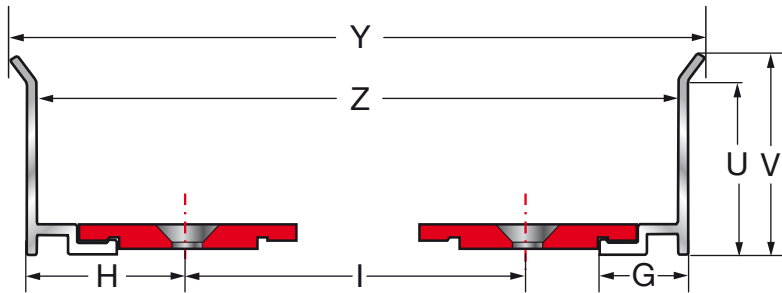
See page 312 for further details of channel clearance (SP)

Guide channel side section	
Type	VAW 35
length	78.74 in. (2000 mm)
Order no.	111420100700

Distance fixing plate	VAW-DBP 3001	VAW-DBP 3002	VAW-DBP 3002.5
Dimensional drawing			
Order no.	111212100000	111212120000	111212130000
Dimensions in inch	A = 1.18 B = 1.57	A = 1.71 B = 1.57	A = 2.44 B = 1.18
Ø Bore holes / spacing in inch	D = 0.24 E = 0.26	D = 0.24 E = 0.26	D = 0.24 F = 1.34
Channel dimensions	Z = 1.81 Y = 2.20 H = 0.99	Z = 2.36 Y = 2.76 H = 1.25	Z = 3.07 Y = 3.46 H = 0.95
suitable for CDC types with outside widths	from 1.65 to 1.73 inch	from 2.09 to 2.24 inch	from 2.83 to 2.95 inch

VAW-DBP 3003/35062	VAW-DBP 3003.5	VAW-DBP 3004/35086	VAW-DBP 3005/35102
111212140000	111212150000	111212160000	111212180000
A = 2.68 B = 1.57	A = 3.23 B = 1.18	A = 3.68 B = 1.57	A = 4.31 B = 1.57
D = 0.24 ; E = 0.26 ; F = 1.34	D = 0.24 F = 1.97	D = 0.24 ; E = 0.26 ; F = 2.30	D = 0.24 ; E = 0.26 ; F = 2.89
Z = 3.31 Y = 3.70 H = 1.07	Z = 3.86 Y = 4.25 H = 1.03	Z = 4.33 Y = 4.72 H = 1.09	Z = 4.96 Y = 5.35 H = 1.11
from 2.99 to 3.23 inch	from 3.58 to 3.74 inch	from 3.98 to 4.21 inch	from 4.57 to 4.84 inch

Variable guide channel system, type VAW 35, two-part inside clamping



Guide channel side section	
Type	VAW 35
length	78.74 in. (2000 mm)
Order no.	111420100700

Examples for two-part inside clamping with clamping piece type VAW-DBP 3001				
Channel dimensions	Z = 5.87	Y = 6.26	Z = 5.94	Y = 6.34
	I = 4.06		I = 7.01	
Sample applications: (IB = Inside width in inch) (AB = Outside width in inch)	MP 25 (IB = 4.92, AB = 5.55)		MP 3000 (IB = 4.92, AB = 5.63)	
	MP 36 G (IB = 4.92, AB = 5.55)			

Examples for two-part inside clamping with clamping piece type VAW-DBP 3001				
Channel dimensions	Z = 6.85	Y = 7.24	Z = 8.82	Y = 9.21
	I = 5.04		I = 5.04	
Sample applications: (IB = Inside width in inch) (AB = Outside width in inch)	MP 25 (IB = 5.91, AB = 6.54)		MP 25 (IB = 7.87, AB = 5.50)	

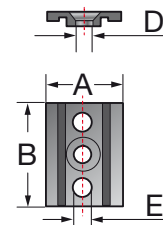
Two-part inside clamping:
The channel side sections are secured to the mounting surface using two clamping pieces of the same type.

- Z = Chain outside width + SP*
- Z_{Min} = 3.03 inch**
- Y = Z + 0.39 inch
- I = Z - 1.81 inch
- V = 1.38 inch
- U = 1.18 inch
- G = 0.71 inch
- H = 0.99 inch

* See page 312 for further details of channel clearance (SP)

** Smallest channel inside width for two-part inside clamping. Smaller inside widths are possible only with one-piece inside clamping.

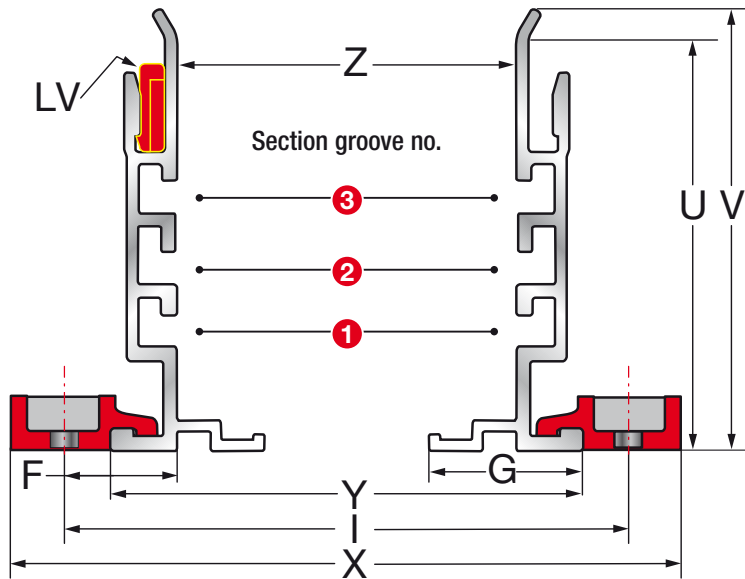
Clamping piece type VAW-DBP 3001



Order no.:	111212100000
A	= 1.18 inch
B	= 1.57 inch
D	= 0.24 inch
E	= 0.26 inch



Variable guide channel system, type VAW 80, outside clamping



Outside clamping:

The channel side sections are secured to the mounting surface outside using two type KL 50 clamping pieces.

AB = Chain outside width
SP = Channel clearance*

$$Z = AB + SP$$

$$Y = AB + SP + 0.94 \text{ inch}$$

$$X = AB + SP + 2.76 \text{ inch}$$

$$V = 3.15 \text{ inch}$$

$$U = 2.91 \text{ inch}$$

$$I = Z + 2 \cdot F = Z + 1.85 \text{ inch}$$

$$F = 0.93 \text{ inch}$$

$$G = 1.10 \text{ inch}$$

* See page 312 for further details of channel clearance (SP)

Guide channel side section

Type	VAW 80
length	78.74 in. (2000 mm)
Order no.	111430100700

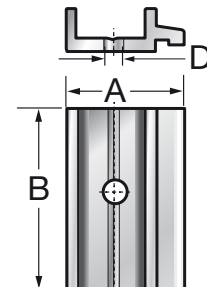
Longitudinal connectors

Type	LV
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Order no.	111210100000
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Clamping piece type KL 50



Order no.: 111210300000

$$A = 1.28 \text{ inch}$$

$$B = 1.97 \text{ inch}$$

$$D = 0.24 \text{ inch}$$

Glide rail section	GSP 20/20	GSP 20/24
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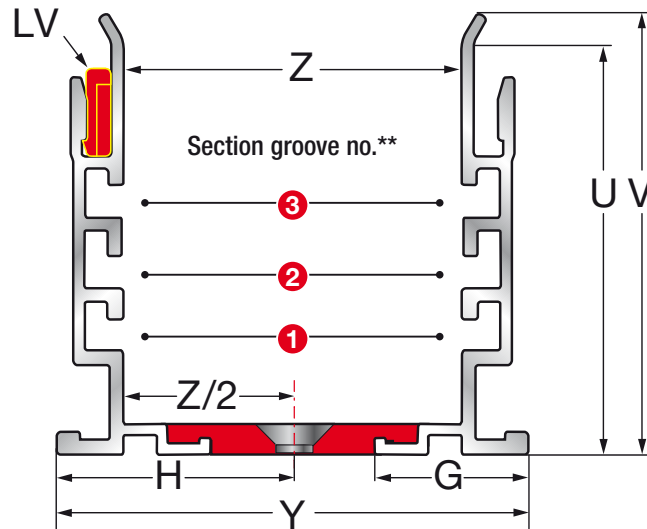


Order no.	111010100000	111010140000
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For use in connection with cable drag chains of these types

Installation of glide rail in section groove no.	1	MP 18	--
	2	MP 25 G, MP 3000	MP 30
	3	MP 35, MP 36 G	--

Variable guide channel system, type VAW 80, one-piece inside clamping



One-piece inside clamping:
the channel side sections on both sides are secured to the mounting surface using a clamping piece.

AB = Chain outside width
SP = Channel clearance*

- Z = AB + SP
- Y = AB + SP + 0.94 inch
- X = AB + SP + 2.76 inch
- V = 3.15 inch
- U = 2.91 inch
- I = Z + 2*H = Z + 1.85 inch
- H = 0.93 inch
- G = 1.10 inch

* See page 312 for further details of channel clearance (SP)

** See page 322 for further details of section groove numbers

Guide channel side section	
Type	VAW 80
length	78.74 in. (2000 mm)
Order no.	111430100700

Longitudinal connectors	
Type	LV



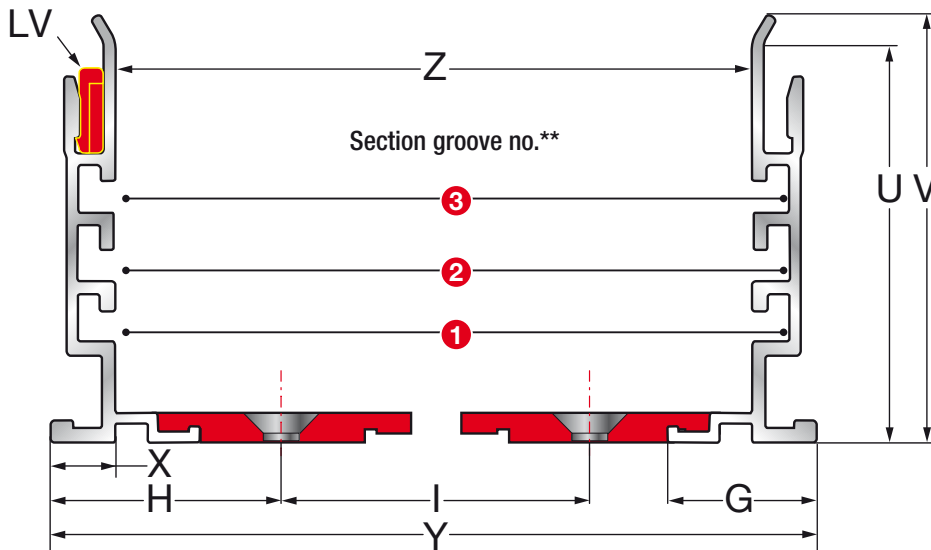
Order no. 111210100000

DBP type	VAW-DBP 3001	VAW-DBP 3002
Dimensional drawing		
Order no.	111212100000	111212120000
Dimensions in inch	A = 1.18 B = 1.57	A = 1.71 B = 1.57
Ø hole / spacing in inch	D = 0.24 E = 0.26	D = 0.24 E = 0.26
Channel dimensions	Z = 1.81 H = 1.40	Z = 2.36 H = 1.65
suitable for CDC types with outside widths	from 1.65 to 1.73 inch	from 2.09 to 2.24 inch

VAW-DBP 3002.5	VAW-DBP 3003/35062	VAW-DBP 3003.5	VAW-DBP 3004/35086	VAW-DBP 3005/35102
111212130000	111212140000	111212150000	111212160000	111212180000
A = 2.44 B = 1.18	A = 2.68 B = 1.57	A = 3.23 B = 1.18	A = 93.0 B = 1.57	A = 109.0 B = 1.57
D = 0.24 F = 1.34	D = 0.24 E = 0.26 F = 1.97	D = 0.24 F = 1.97	D = 0.24 E = 0.26 F = 2.30	D = 0.24 E = 0.26 F = 2.89
Z = 3.07 H = 1.34	Z = 3.31 H = 36.1	Z = 3.86 H = 37.1	Z = 4.33 H = 37.6	Z = 4.96 H = 1.50
from 2.83 to 2.95 inch	from 2.99 to 3.23 inch	from 3.58 to 3.74 inch	from 3.98 to 4.21 inch	from 4.57 to 4.84 inch



Variable guide channel system, type VAW 80, two-part inside clamping



Two-part inside clamping:
The channel side sections are secured to the mounting surface using two clamping pieces of the same type.

$$Z = \text{Chain outside width} + SP^*$$

$$Z_{\text{Min}} = 3.03 \text{ inch}^{***}$$

$$Y = Z + 0.98 \text{ inch}$$

$$I = Z - 1.81 \text{ inch}$$

$$X = 0.49 \text{ inch}$$

$$V = 1.38 \text{ inch}$$

$$U = 1.18 \text{ inch}$$

$$G = 0.71 \text{ inch}$$

$$H = 0.99 \text{ inch}$$

* See page 312 for further details of channel clearance (SP)

** See page 322 for further details of section groove numbers

*** Smallest channel inside width for two-part inside clamping. Smaller inside widths are possible only with one-piece inside clamping.

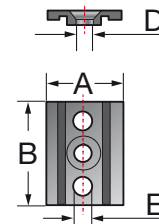
Guide channel side section	
Type	VAW 80
length	78.74 in. (2000 mm)
Order no.	111430100700

Longitudinal connectors	
Type	LV



Order no.	111210100000
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Clamping piece type VAW-DBP 3001



Order no.: 111212100000

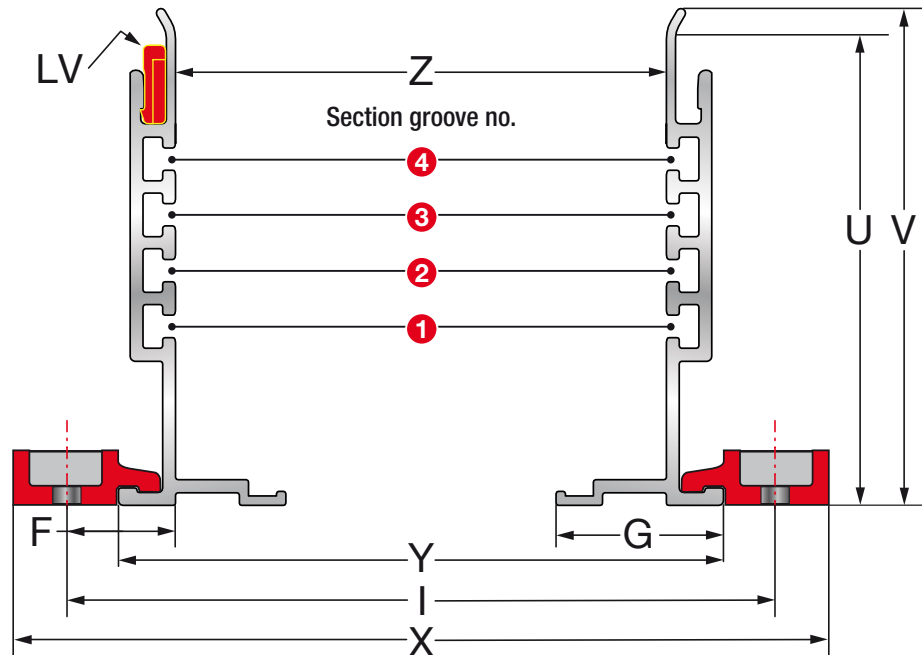
$$A = 1.18 \text{ inch}$$

$$B = 1.57 \text{ inch}$$

$$D = 0.24 \text{ inch}$$

$$E = 0.26 \text{ inch}$$

Variable guide channel system, type VAW 106, outside clamping



Outside clamping:
The channel side sections are secured to the mounting surface outside using two type KL 50 clamping pieces.

AB = Chain outside width
SP = Channel clearance*

- Z = AB + SP
- Y = AB + SP + 1.02 inch
- X = AB + SP + 2.83 inch
- V = 4.17 inch
- U = 3.94 inch
- I = Z + 2*F = Z + 1.93 inch
- F = 0.96 inch
- G = 1.44 inch

* See page 312 for further details of channel clearance (SP)

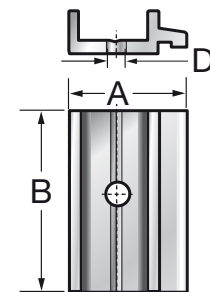
Guide channel side section	
Type	VAW 106
length	78.74 in. (2000 mm)
Order no.	111435100700

Longitudinal connectors	
Type	LV







Order no. 111210100000

Clamping piece type KL 50



Order no.: 111210300000

- A = 1.28 inch
- B = 1.97 inch
- D = 0.24 inch

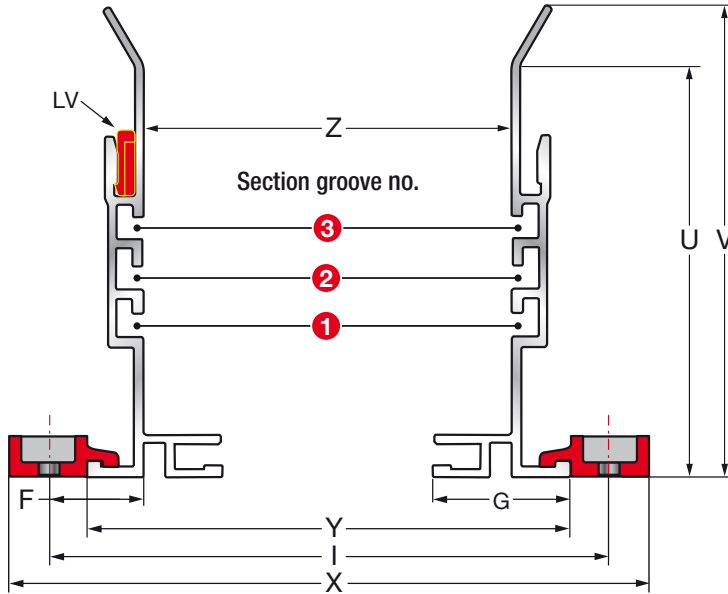
Glide rail section	GSP 5/15	GSP 5/15	GSP 7/13	GSP 9/11
				
Order no.	111010180000	111010180000	111010200000	111010220000

For use in connection with cable drag chains of these types

Installation of glide rail in section groove no.	①	MP 25	MP 35, MP 36 G	--	MP 30
	②	--	--	MP 32.X	--
	③	MP 41.X, MP 43 G, MP 44	--		
	④	MP 52.X			



Variable guide channel system, type VAW 122



Outside clamping:

The channel side sections are secured to the mounting surface outside using two type KL 50 clamping pieces.

AB = Chain outside width

SP = Channel clearance*

$$Z = AB + SP^*$$

$$Y = AB + SP + 1.18 \text{ inch}$$

$$X = AB + SP + 2.99 \text{ inch}$$

$$V = 4.80 \text{ inch}$$

$$U = 4.13 \text{ inch}$$

$$I = Z + 2 \cdot F = Z + 2.09 \text{ inch}$$

$$F = 1.04 \text{ inch}$$

$$G = 1.38 \text{ inch}$$

* See page 312 for further details of channel clearance (SP)

Guide channel side section

Type VAW 122

length 78.74 in. (2000 mm)

Order no. 111440100700

Longitudinal connectors

Type LV



Dampening sections

0.16 inch

0.35 inch

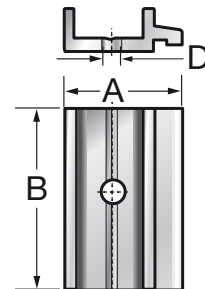


Order no. 111210100000

111012100001

111012100002

Clamping piece type KL 50

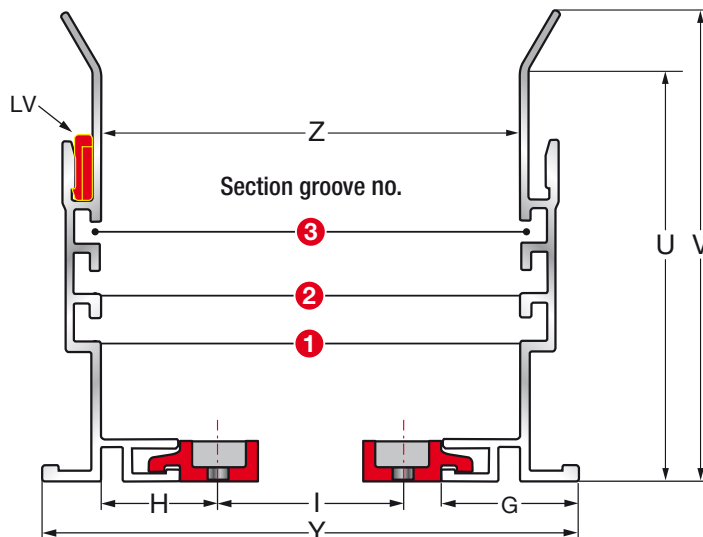


Order no.: 111210300000

$$A = 1.28 \text{ inch}$$

$$B = 1.97 \text{ inch}$$

$$D = 0.24 \text{ inch}$$



Two-part inside clamping:

The channel side sections are secured to the mounting surface using two clamping pieces of the same type.

$$Z = AB + SP^*$$

$$Z_{\text{Min}} = 3.43 \text{ inch}^{**}$$

$$Y = AB + SP + 1.18 \text{ inch}$$

$$I = Z - 2 \cdot H = Z - 2.48 \text{ inch}$$

$$V = 4.80 \text{ inch}$$

$$U = 4.13 \text{ inch}$$

$$H = 1.24 \text{ inch}$$

$$G = 1.38 \text{ inch}$$

** Smallest channel inside width for two-part inside clamping. Smaller inside widths are possible only with outside clamping.

Chain type	Dampening sections			Glide rail sections					Section groove no.	
	Without	Height 0.16 inch	Height 0.35 inch	GSP 20/15	GSP 20/20	GSP 20/24	GSP 20/29	GSP 20/34		GSP 20/38
MP 25 MP 25 G MP 3000	●	●	○	●	●					1 1 2
MP 30	●	●	○	●	●	○				1 2 2
MP 32 MP 32.2 MP 32.3	●	●	○	●	●	○				2 3 3
MP 35 MP 36 G	●	●	○	●	●					2 2 3
MP 41.x MP 43 G MP 44	●	●	○	●	●			○		3 3 2
MP 52.x	●	●	○			●	●		○	3 3 3

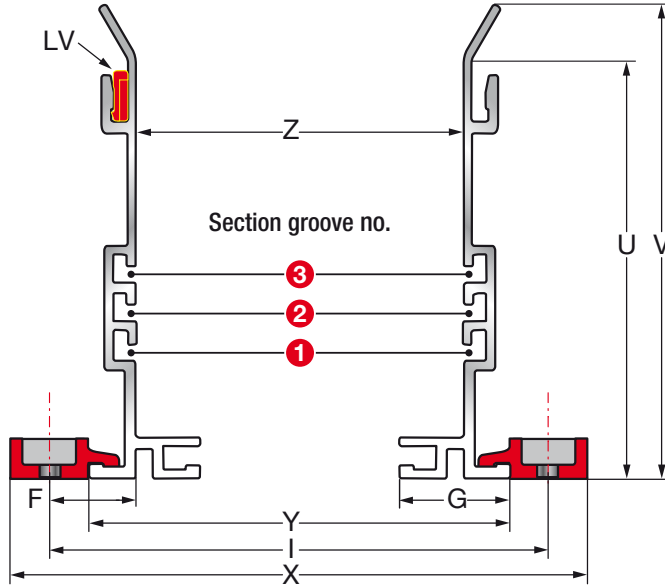
Example: A cable drag chain is to be installed in a VAW 122 unit. Which glide rail needs to be installed in which section groove?

The glide rail for supporting the upper run must (after exceeding the self-supporting length) be installed in the guide channel at the right height. First, locate your application's chain type in the adjacent table (column 1). To determine the matching section groove number, you next need to decide whether or not you are planning to use a (noise) dampening section. The next three columns in the table are used for this purpose. If you then look further to the right in the table, you will find the associated glide rail section and matching section groove number for installing the glide rails.

Glide rail section	GSP 20/15	GSP 20/20	GSP 20/24	GSP 20/29	GSP 20/34	GSP 20/38
Order no.	111010280000	111010100000	111010140000	111010120000	111010300000	111010320000



Variable guide channel system, type VAW 150



Outside clamping:

The channel side sections are secured to the mounting surface outside using two type KL 50 clamping pieces.

AB = Chain outside width
SP = Channel clearance*

$$Z = AB + SP^*$$

$$Y = AB + SP + 1.18 \text{ inch}$$

$$X = AB + SP + 2.99 \text{ inch}$$

$$V = 5.91 \text{ inch}$$

$$U = 5.24 \text{ inch}$$

$$I = Z + 2 \cdot F = Z + 2.09 \text{ inch}$$

$$F = 1.04 \text{ inch}$$

$$G = 1.38 \text{ inch}$$

* See page 312 for further details of channel clearance (SP)

Guide channel side section

Type	VAW 150
length	78.74 in. (2000 mm)
Order no.	111470100700

Longitudinal connectors

Type	LV
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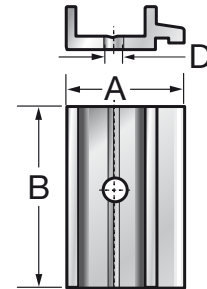
Dampening sections

0.16 inch	0.35 inch
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Order no.	111210100000	111012100001	111012100002
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Clamping piece type KL 50



Order no.: 111210300000

$$A = 1.28 \text{ inch}$$

$$B = 1.97 \text{ inch}$$

$$D = 0.24 \text{ inch}$$

Two-part inside clamping:

The channel side sections are secured to the mounting surface inside using two type KL 50 clamping pieces.

$$Z = AB + SP^*$$

$$Z_{\text{Min}} = 3.43 \text{ inch}^{**}$$

$$Y = AB + SP + 1.18 \text{ inch}$$

$$I = Z - 2 \cdot H = Z - 2.48 \text{ inch}$$

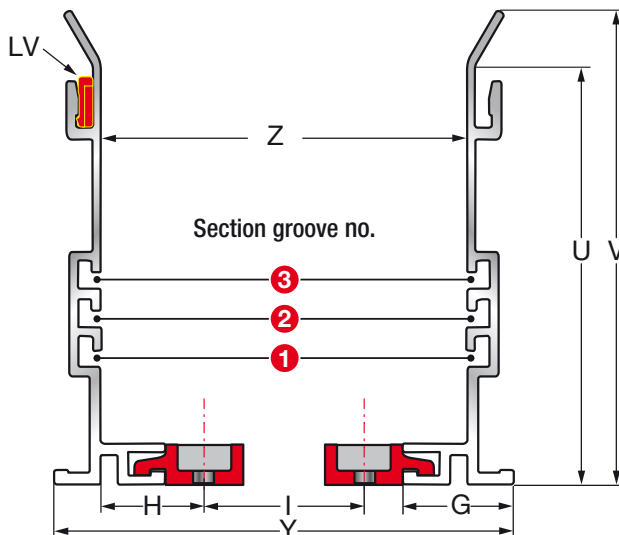
$$V = 5.91 \text{ inch}$$

$$U = 5.24 \text{ inch}$$

$$H = 1.24 \text{ inch}$$

$$G = 1.38 \text{ inch}$$





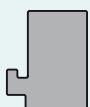
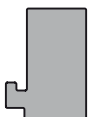
** Smallest channel inside width for two-part inside clamping. Smaller inside widths are possible only with outside clamping.



Chain type	Dampening sections			Glide rail sections				Section groove no.		
	Without	Height 0.16 inch	Height 0.35 inch	GSP 20/15	GSP 20/20	GSP 20/24	GSP 20/29		GSP 20/34	GSP 20/38
MP 25 MP 25 G MP 3000	●			●					1	
		●			●				1	
			○	○					2	
MP 30	●				●				1	
		●		●					2	
			○			○			2	
MP 32 MP 32.2 MP 32.3	●				●				2	
		●		●					3	
			○	○					3	
MP 35 MP 36 G	●			●					2	
		●			●				2	
			○	○					3	
MP 41.x MP 43 G MP 44	●			●					3	
		●			●				3	
			○					○	2	
MP 52.x	●				●				3	
		●				●			3	
			○					○	3	

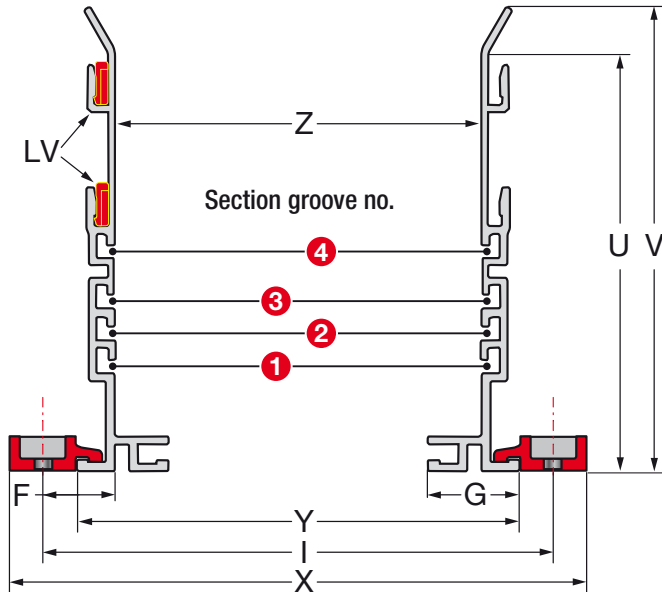
Example: A cable drag chain is to be installed in a VAW 150 unit. Which glide rail section needs to be installed in which section groove?

The glide rail for supporting the upper run must (after exceeding the self-supporting length) be installed in the guide channel at the right height. First, locate your application's chain type in the adjacent table (column 1). To determine the matching section groove number, you next need to decide whether or not you are planning to use a (noise) dampening section. The next three columns in the table are used for this purpose. If you then look further to the right in the table, you will find the associated glide rail section and matching section groove number for installing the glide rails.

Glide rail section	GSP 20/15	GSP 20/20	GSP 20/24	GSP 20/29	GSP 20/34	GSP 20/38
						
Order no.	111010280000	111010100000	111010140000	111010120000	111010300000	111010320000



Variable guide channel system, type VAW 177, without center piece



Outside clamping:

The channel side sections are secured to the mounting surface outside using two type KL 50 clamping pieces.

AB = Chain outside width
SP = Channel clearance*

$$Z = AB + SP^*$$

$$Y = AB + SP + 1.18 \text{ inch}$$

$$X = AB + SP + 2.99 \text{ inch}$$

$$V = 6.97 \text{ inch}$$

$$U = 6.30 \text{ inch}$$

$$I = Z + 2 \cdot F = Z + 2.09 \text{ inch}$$

$$F = 1.04 \text{ inch}$$

$$G = 1.38 \text{ inch}$$

* See page 312 for further details of channel clearance (SP)

Guide channel side section

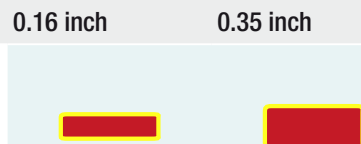
Type	VAW 177	VAW 177
length	78.74 in. (2000 mm)	196.85 in. (5000 mm)
Order no.	111450100700	111450120700

Longitudinal connectors



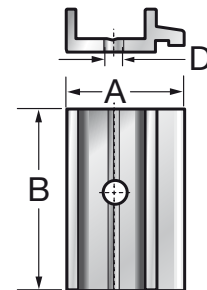
Order no. 111210100000

Dampening sections



111012100001 111012100002

Clamping piece type KL 50

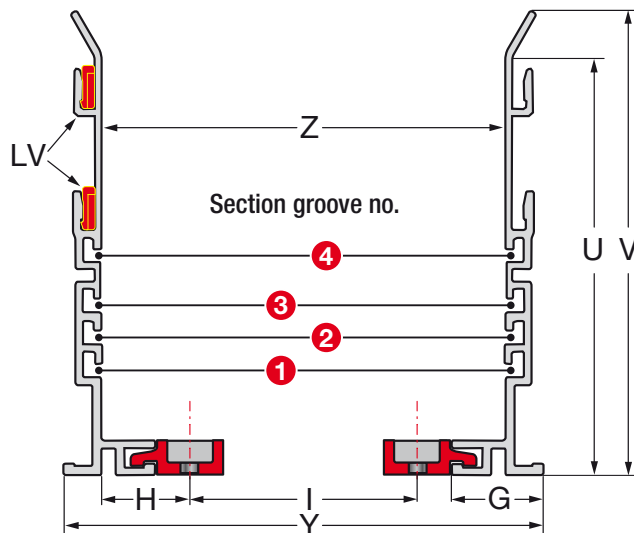


Order no.: 111210300000

$$A = 1.28 \text{ inch}$$

$$B = 1.97 \text{ inch}$$

$$D = 0.24 \text{ inch}$$



Two-part inside clamping:

The channel side sections are secured to the mounting surface inside using two type KL 50 clamping pieces.

$$Z = AB + SP^*$$

$$Z_{\text{Min}} = 3.43 \text{ inch}^{**}$$

$$Y = AB + SP + 1.18 \text{ inch}$$

$$I = Z - 2 \cdot H = Z - 2.48 \text{ inch}$$

$$V = 6.97 \text{ inch}$$

$$U = 6.30 \text{ inch}$$





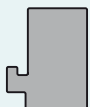
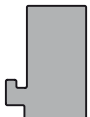
$$H = 1.04 \text{ inch}$$

$$G = 1.38 \text{ inch}$$

** Smallest channel inside width for two-part inside clamping. Smaller inside widths are possible only with outside clamping.

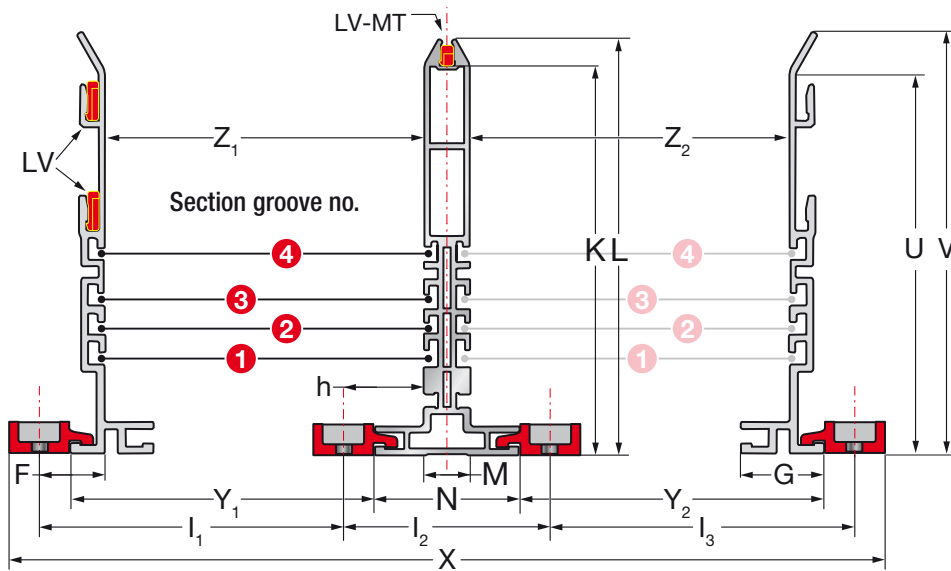
Chain type	Dampening sections			Glide rail sections				Section groove no.		
	Without	Height 0.16 inch	Height 0.35 inch	GSP 20/15	GSP 20/20	GSP 20/24	GSP 20/29		GSP 20/34	GSP 20/38
MP 25 MP 25 G MP 3000	●	●	○	●	●				1	
MP 30	●	●	○	●	●				1	
						○			2	
									2	
MP 32 MP 32.2 MP 32.3	●	●	○	●	●				2	
				●	●				3	
				○	○				3	
MP 35 MP 36 G	●	●	○	●	●				2	
				○	○				2	
									3	
MP 41.x MP 43 G MP 44	●	●	○	●	●				3	
									3	
								○	2	
MP 52.x	●	●	○			●			3	
							●		3	
					○				4	
MP 62.x	●	●	○		●				4	
							●		4	
								○	4	
MP 65 G MP 66	●	●		●	●				4	
									4	

Example: A cable drag chain is to be installed in a VAW 177 unit. Which glide rail needs to be installed in which section groove?
 The glide rail for supporting the upper run must (after exceeding the self-supporting length) be installed in the guide channel at the right height. First, locate your application's chain type in the adjacent table (column 1). To determine the matching section groove number, you next need to decide whether or not you are planning to use a (noise) dampening section. The next three columns in the table are used for this purpose. If you then look further to the right in the table, you will find the associated glide rail section and matching section groove number for installing the glide rails.

Glide rail section	GSP 20/15	GSP 20/20	GSP 20/24	GSP 20/29	GSP 20/34	GSP 20/38
						
Order no.	111010280000	111010100000	111010140000	111010120000	111010300000	111010320000



Variable guide channel system, type VAW 177, with center piece



Outside clamping:
The channel side sections are secured to the mounting surface outside using two type KL 50 clamping pieces.

AB = Chain outside width
SP = Channel clearance*

$$Z_1 = AB + SP^*$$

$$Z_2 = AB + SP^*$$

$$Y_1 = Z_1 - 0.20 \text{ inch}$$

$$Y_2 = Z_2 - 0.20 \text{ inch}$$

$$X = Z_1 + N + Z_2 + 2.99 \text{ inch}$$

$$V = 6.97 \text{ inch}$$

$$U = 6.30 \text{ inch}$$

$$U = 6.93 \text{ inch}$$

$$K = 6.50 \text{ inch}$$

$$N = 2.44 \text{ inch}$$

$$M = 0.87 \text{ inch}$$

$$I_1 = Z_1 - 0.20 \text{ inch}$$

$$I_2 = 3.35 \text{ inch}$$

$$I_3 = Z_2 - 0.20 \text{ inch}$$

$$F = 1.04 \text{ inch}$$

$$h = 1.24 \text{ inch}$$

$$G = 1.38 \text{ inch}$$

* See page 312 for further details of channel clearance (SP)

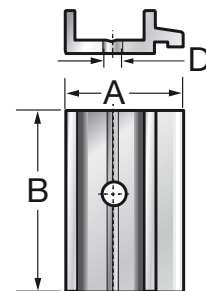
	Guide channel side section		Guide channel center piece	
Type	VAW 177	VAW 177	VAW MT 177	VAW MT 177
length	78.74 in. (2000 mm)	196.85 in. (5000 mm)	78.74 in. (2000 mm)	196.85 in. (5000 mm)
Order no.	111450100700	111450120700	111450140700	111450160700

	Longitudinal connectors		Dampening sections	
Type	LV	LV-MT	0.16 inch	0.35 inch



Order no.	111210100000	111210120000	111012100001	111012100002
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Clamping piece type KL 50



Order no.: 111210300000

$$A = 1.28 \text{ inch}$$

$$B = 1.97 \text{ inch}$$

$$D = 0.24 \text{ inch}$$

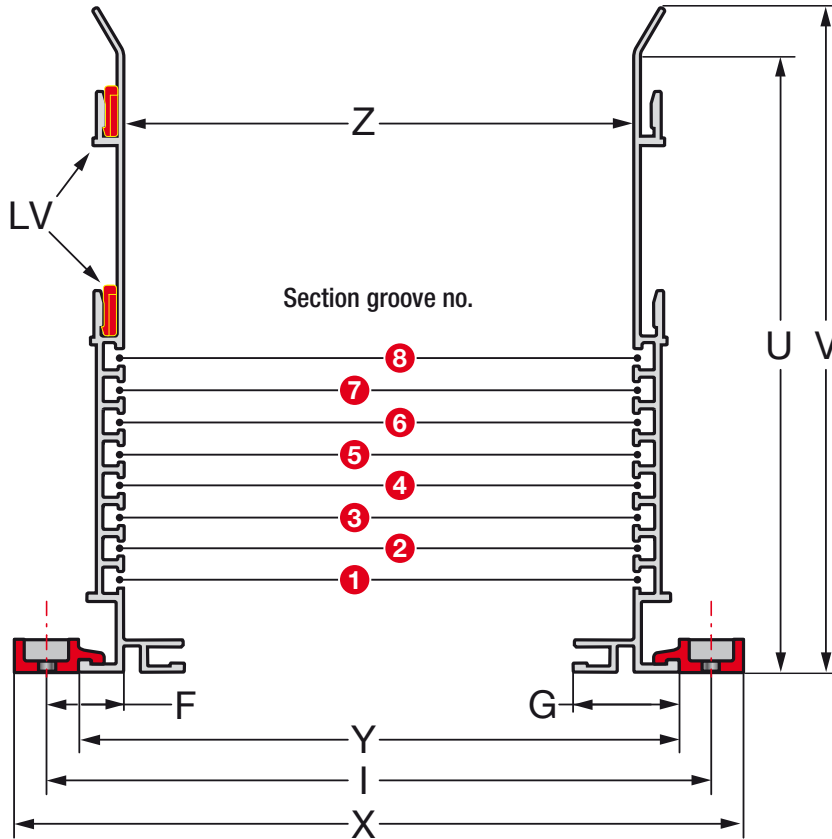
Chain type	Dampening sections			Glide rail sections				Section groove no.			
	Without	Height 0.16 inch	Height 0.35 inch	GSP 20/15	GSP 20/20	GSP 20/24	GSP 20/29		GSP 20/34	GSP 20/38	
MP 25 MP 25 G MP 3000	●	●	○	●	●					1	
MP 30	●	●	○	●	●					1	
						○				2	
MP 32 MP 32.2 MP 32.3	●	●	○	●	●					2	
						○				3	
MP 35 MP 36 G	●	●	○	●	●					2	
						○				3	
MP 41.x MP 43 G MP 44	●	●	○	●	●					3	
								○		2	
MP 52.x	●	●	○			●				3	
						○	●			3	
MP 62.x	●	●	○		●		●			4	
								○		4	
MP 65 G MP 66	●	●	○	●	●					4	
										4	

Example: A cable drag chain is to be installed in a VAW 177 unit. Which glide rail needs to be installed in which section groove?
 The glide rail for supporting the upper run must (after exceeding the self-supporting length) be installed in the guide channel at the right height. First, locate your application's chain type in the adjacent table (column 1). To determine the matching section groove number, you next need to decide whether or not you are planning to use a (noise) dampening section. The next three columns in the table are used for this purpose. If you then look further to the right in the table, you will find the associated glide rail section and matching section groove number for installing the glide rails.

Glide rail section	GSP 20/15	GSP 20/20	GSP 20/24	GSP 20/29	GSP 20/34	GSP 20/38
Order no.	111010280000	111010100000	111010140000	111010120000	111010300000	111010320000



Variable guide channel system, type VAW 248, outside clamping



Outside clamping:

The channel side sections are secured to the mounting surface outside using two type KL 50 clamping pieces.

AB = Chain outside width
SP = Channel clearance*

$$Z = AB + SP^*$$

$$Y = AB + SP + 1.18 \text{ inch}$$

$$X = AB + SP + 2.99 \text{ inch}$$

$$V = 9.76 \text{ inch}$$

$$U = 9.02 \text{ inch}$$

$$I = Z + 2 \cdot F = Z + 2.09 \text{ inch}$$

$$F = 1.04 \text{ inch}$$

$$G = 1.38 \text{ inch}$$

* See page 312 for further details of channel clearance (SP)

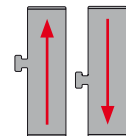
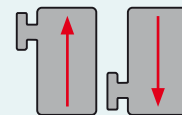
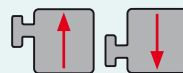
Guide channel side section		
Type	VAW 248	VAW 248
length	78.74 in. (2000 mm)	196.85 in. (5000 mm)
Order no.	111480100700	111480120700

Longitudinal connectors		Dampening sections	
Type	LV	0.16 inch	0.35 inch



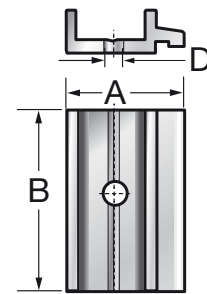
Order no.	111210100000	111012100001	111012100002
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Glide rail section	GSP 5/15	GSP 7/13	GSP 9/11	GSP 33/9	GSP 30/39
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Order no.	111010180000	111010200000	111010220000	111010240000	111010340000
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Clamping piece type KL 50



Order no.: 111210300000

$$A = 1.28 \text{ inch}$$

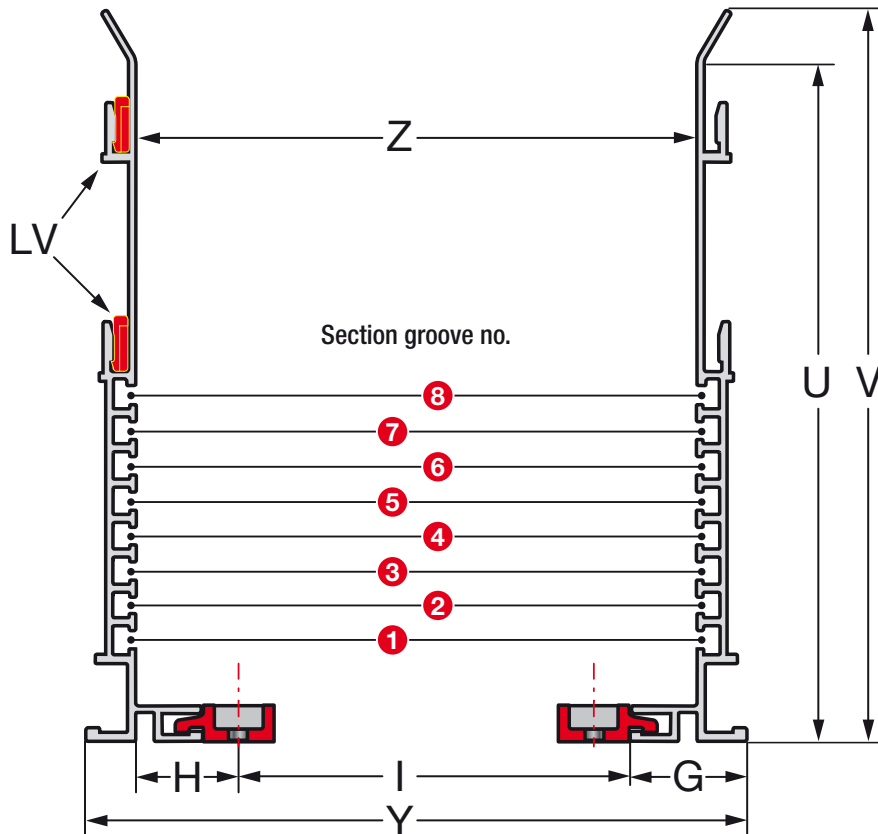
$$B = 1.97 \text{ inch}$$

$$D = 0.24 \text{ inch}$$

Note: A cable drag chain is to be installed in a VAW 248 unit. Which glide rail needs to be installed in which section groove?

See assignment table on page 337

Variable guide channel system, type VAW 248, two-part inside clamping



Two-part inside clamping:
The channel side sections are secured to the mounting surface inside using two type KL 50 clamping pieces.

- Z = AB + SP*
- Z_{Min} = 3.43 inch**
- Y = AB + SP + 1.18 inch
- I = Z - 2*H = Z - 2.48 inch
- V = 9.76 inch
- U = 9.02 inch
- H = 1.24 inch
- G = 1.38 inch

* See page 312 for further details of channel clearance (SP)
** Smallest channel inside width for two-part inside clamping. Smaller inside widths are possible only with outside clamping.

Guide channel side section		
Type	VAW 248	VAW 248
length	78.74 in. (2000 mm)	196.85 in. (5000 mm)
Order no.	111480100700	111480120700

Longitudinal connectors		Dampening sections	
Type	LV	0.16 inch	0.35 inch
Order no.	111210100000	111012100001	111012100002

Clamping piece type KL 50

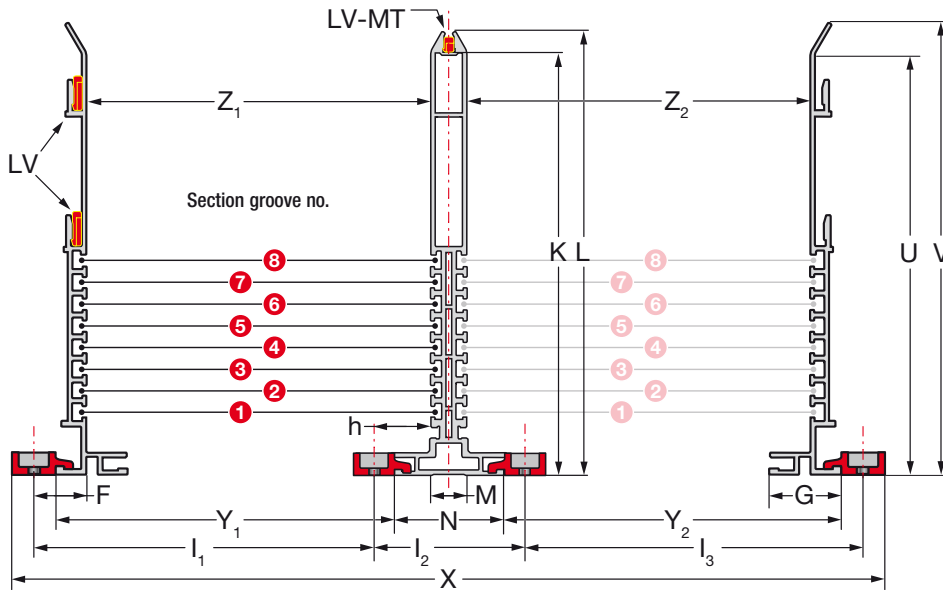
Order no.: 111210300000
 A = 1.28 inch
 B = 1.97 inch
 D = 0.24 inch

Glide rail section	GSP 5/15	GSP 7/13	GSP 9/11	GSP 33/9	GSP 30/39
Order no.	111010180000	111010200000	111010220000	111010240000	111010340000

Note: A cable drag chain is to be installed in a VAW 248 unit. Which glide rail needs to be installed in which section groove?
See assignment table on page 337



Variable guide channel system, type VAW 248, with center piece



Outside clamping:

The channel side sections are secured to the mounting surface outside using two type KL 50 clamping pieces.

AB = Chain outside width
SP = Channel clearance*

$$Z_1 = AB + SP^*$$

$$Z_2 = AB + SP^*$$

$$Y_1 = Z_1 - 0.20 \text{ inch}$$

$$Y_2 = Z_2 - 0.20 \text{ inch}$$

$$X = Z_1 + N + Z_2 + 2.99 \text{ inch}$$

$$V = 9.76 \text{ inch}$$

$$U = 9.02 \text{ inch}$$

$$L = 9.69 \text{ inch}$$

$$K = 21.38 \text{ inch}$$

$$N = 2.44 \text{ inch}$$

$$M = 0.87 \text{ inch}$$

$$I_1 = Z_1 - 0.20 \text{ inch}$$

$$I_2 = 3.35 \text{ inch}$$

$$I_3 = Z_2 - 0.20 \text{ inch}$$

$$F = 1.04 \text{ inch}$$

$$h = 1.24 \text{ inch}$$

$$G = 1.38 \text{ inch}$$

* See page 312 for further details of channel clearance (SP)

	Guide channel side section		Guide channel center piece	
Type	VAW 248	VAW 248	VAW MT 248	VAW MT 248
length	78.74 in. (2000 mm)	196.85 in. (5000 mm)	78.74 in. (2000 mm)	196.85 in. (5000 mm)
Order no.	111480100700	111480120700	111480140700	111480160700

	Longitudinal connectors		Dampening sections	
Type	LV	LV-MT	0.16 inch	0.35 inch



Order no.	111210100000	111210120000	111012100001	111012100002
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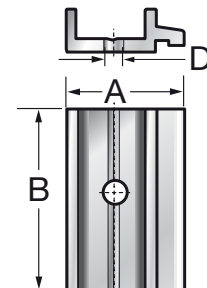
Glide rail sections, mounting direction and order no.

GSP 5/15	GSP 7/13	GSP 9/11	GSP 33/9	GSP 30/39
111010180000	111010200000	111010220000	111010240000	111010340000

Example: A cable drag chain is to be installed in a VAW 248 unit. Which glide rail needs to be installed in which section groove?

The glide rail for supporting the upper run must (after exceeding the self-supporting length) be installed in the guide channel at the right height. First, locate your application's chain type in the adjacent table (column 1). To determine the matching section groove number, you next need to decide whether or not you are planning to use a (noise) dampening section. The next three columns in the table are used for this purpose. If you then look further to the right in the table, you will find the associated glide rail section, the mounting direction and matching section groove number for installing the glide rails.

Clamping piece type KL 50



Order no.: 111210300000

A = 1.28 inch

B = 1.97 inch

D = 0.24 inch

For explanation see Sample order

Chain type	Dampening sections			Glide rail sections					Mounting direction	Section groove no.
	Without	Height 0.16 inch	Height 0.35 inch	GSP 5/15	GSP 7/13	GSP 9/11	GSP 33/9	GSP 30/39		
MP 25	●			●						1
MP 25 G		●			●					2
MP 3000			○		○					2
MP 30	●					●				2
		●			●					2
			○		○					3
MP 32	●				●					3
MP 32.2		●				●				3
MP 32.3			○		○					4
MP 35	●				●					2
MP 36 G		●			●					3
			○			○				3
MP 41.x	●				●					4
MP 43 G		●				●				4
MP 44			○		○					4
MP 52.x	●				●					5
		●				●				5
			○		○					5
MP 62.x	●				●					6
		●			●					7
			○			○				7
MP 65 G	●					●				5
MP 66		●			●					5
			○		○					6
MP 72	●					●				7
		●			●		●			7
			○		○					8
MP 82.x	●				●					8
		●				●				8
			○		○					8
MP 102	●						●			8
		●				●				8
			○				○			8