



**SS** Stainless Steel

**3 Bore code**

- B** Without keyway
- K** With keyway
- V** With square

**5 Type**

- A** Without handle
- D** With revolving handle (only for stainless steel version)

**Specification**

• Body	<b>1</b>	<b>6</b>
Steel	<b>ST</b>	
Powder coated		
Black, RAL 9005, textured finish		<b>SW</b>
- Steel sheet metal wheel body		
- Hub welded to body		
• Body		
Stainless steel AISI 316L	<b>A4</b>	
- Matte shot-blasted finish		<b>GS</b>
- Stainless steel sheet metal wheel body		
- Hub welded to body		
• Revolving handle, similar to GN 598.2		
Plastic (Duroplast)		
- Black, shiny finish		
- Threaded spindle		
Stainless steel AISI 316L		
- O-rings		
Rubber NBR (Perbunan®)		

• RoHS compliant

**Information**

GN 228 spoked handwheels made from sheet metal are renowned for their high mechanical strength and unaffected by shocks and knocks. The hub lengths  $l_1$  and the diameter  $d_3$  conform to DIN 950.

The stainless steel version is suitable for applications in highly corrosive environments due to the AISI 316L materials used.

On the revolving handles of type D, the O-rings minimize the radial play, protect the handle bearing from penetrating dirt and prevent noises resulting from vibration.

see also...

- Countersunk Washers GN 184 (for Axial Mounting)
- Spoked Handwheels GN 950.6 (Stainless Steel)
- Spoked Handwheels GN 949 (Stainless Steel)
- Spoked Handwheels DIN 950 (Cast Iron / Aluminum)

**On request**

- Other modifications such as special through holes, square broached holes larger than listed, special keyways, set screw holes, and cross holes

How to order (Inch)	<b>1</b> Material
	<b>2</b> Handwheel diameter $d_1$
	<b>3</b> Bore code
	<b>4</b> Bore diameter $d_2$ (Square s)
	<b>5</b> Type
	<b>6</b> Finish (Color)
<b>1 2 3 4 5 6</b> <b>GN 228-A4-315-B3/4-D-GS</b>	

How to order (Metric)	<b>1</b> Material
	<b>2</b> Handwheel diameter $d_1$
	<b>3</b> Bore code
	<b>4</b> Square s (Bore diameter $d_2$ )
	<b>5</b> Type
	<b>6</b> Color (Finish)
<b>1 2 3 4 5 6</b> <b>GN 228-ST-160-V12-A-SW</b>	

## Inch table

Dimensions in: inches - *millimeters*

<sup>2</sup> <b>d<sub>1</sub></b>	<sup>4</sup> <b>d<sub>2</sub> +0.002</b> Bore	<sup>4</sup> <b>s +0.002</b> Square	<b>b</b>	<b>d<sub>3</sub></b>	<b>l<sub>1</sub></b>	<b>l<sub>2</sub> ≈</b>	<b>l<sub>3</sub></b>	<b>r</b>	<b>∅</b> Handle	No. of spokes	Sheet metal thickness
4.92 125	1/2	V 1/2	0.71 18	1.18 30	0.71 18	1.14 29	-	-	-	3	0.06 1.5
6.30 160	1/2	V 1/2	0.87 22	1.18 30	0.79 20	1.46 37	3.15 80	2.68 68	1.02 26	4	0.06 1.5
7.87 200	5/8	V 5/8	0.87 22	1.57 40	0.94 24	1.81 46	3.15 80	3.46 88	1.02 26	4	0.08 2
9.84 250	3/4	V 3/4	1.18 30	1.77 45	1.10 28	2.05 52	3.54 90	4.25 108	1.10 28	5	0.10 2.5
12.40 315	3/4	V 3/4	1.38 35	2.17 55	1.30 33	2.52 64	3.54 90	5.43 138	1.10 28	5	0.10 2.5
15.75 400	1.00	V 1.00	1.57 40	2.56 65	1.50 38	3.23 82	3.54 90	7.05 179	1.10 28	5	0.12 3

## Metric table

Dimensions in: millimeters - *inches*

<sup>2</sup> <b>d<sub>1</sub></b>	<sup>4</sup> <b>d<sub>2</sub> H9</b> Bore	<sup>4</sup> <b>s H11</b> Square	<b>b</b>	<b>d<sub>3</sub></b>	<b>l<sub>1</sub></b>	<b>l<sub>2</sub> ≈</b>	<b>l<sub>3</sub></b>	<b>r</b>	<b>∅</b> Handle	No. of spokes	Sheet metal thickness
125* 4.92	11	V 11	18 0.71	30 1.18	18 0.71	29 1.14	-	-	-	3	1.5 0.06
160 6.30	12	V 12	22 0.87	30 1.18	20 0.79	37 1.46	80 3.15	68 2.68	26 1.02	4	1.5 0.06
200 7.87	14	V 14	22 0.87	40 1.57	24 0.94	46 1.81	80 3.15	88 3.46	26 1.02	4	2 0.08
250 9.84	17	V 17	30 1.18	45 1.77	28 1.10	52 2.05	90 3.54	108 4.25	28 1.10	5	2.5 0.10
315 12.40	19	V 19	35 1.38	55 2.17	33 1.30	64 2.52	90 3.54	138 5.43	28 1.10	5	2.5 0.10
400 15.75	24	V 24	40 1.57	65 2.56	38 1.50	82 3.23	90 3.54	179 7.05	28 1.10	5	3 0.12

\*Only available in type A

 1.1  
 1.2  
 1.3  
 1.4  
 2.1  
 2.2  
 2.3  
 2.4  
