



**SS** Stainless Steel

## Metric table



Dimensions in: millimeters - inches

Size	$d_1$ Ball	$d_2 \pm 0.08$	$d_3$	$h_1 \pm 0.3$	$h_2 \pm 0.3$	$h_3 \pm 0.3$	$h_4$	Load rating C		
								Version SBL	SNI	NNI
12	12.7 0.50	22 0.87	27 1.06	9 0.35	8 0.31	4 0.16	3.2 0.13	200 N 44.96 lbf	150 N 33.72 lbf	150 N 33.72 lbf
15	15.8 0.62	24 0.94	30 1.18	11.9 0.47	8.1 0.32	3.5 0.14	1 0.04	500 N 112 lbf	400 N 89.92 lbf	400 N 89.92 lbf
22	22.2 0.87	36 1.42	45 1.77	20.7 0.81	9.8 0.39	5 0.20	2.4 0.09	1300 N 292 lbf	1000 N 225 lbf	1000 N 225 lbf
30	30.1 1.19	45 1.77	55 2.17	23 0.91	13.8 0.54	7 0.28	4.5 0.18	2500 N 562 lbf	2000 N 450 lbf	2000 N 450 lbf
45	44.4 1.75	62 2.44	75 2.95	34.5 1.36	19 0.75	9.5 0.37	5.5 0.22	6000 N 1349 lbf	4500 N 1012 lbf	4500 N 1012 lbf
60	60 2.36	100 3.94	117 4.61	47.5 1.87	30 1.18	15 0.59	10 0.39	13000 N 2923 lbf	10000 N 2248 lbf	10000 N 2248 lbf

## Specification



- Housing  
Steel  
- Turned  
- Zinc plated, blue passivated finish
- Ball  
Steel, plain finish

**SBL**

- Housing  
Steel  
- Turned  
- Zinc plated, blue passivated finish
- Ball  
Stainless steel AISI 420

**SNI**

- Housing  
Stainless steel  
- AISI 420B  
- AISI 303 (only size 15 mm)
- Ball  
Stainless steel AISI 420

**NNI**

- Stainless Steel Characteristics → page 2143
- RoHS compliant

## Accessory

- Spring retainers GN 509.3  
(mounting elements for ball transfer units)

## On request

- Balls in plastic (polyamide)

## Information

GN 509.1 heavy duty ball transfer units are typically used on conveyor tracks. They enable an effortless movement or rotation of even heavy loads in any direction.

The diameter  $d_2$  features a taper in the upper area, beneath the flange, which allows it to be easily and firmly installed.

see also...

- More Information on Ball Transfer Units → page 1979
- Ball Transfer Units GN 509 (Steel Sheet / Stainless Steel Housing, with Flange) → page 1978

How to order

**GN 509.1-30-SNI**

1 Size

2 Material