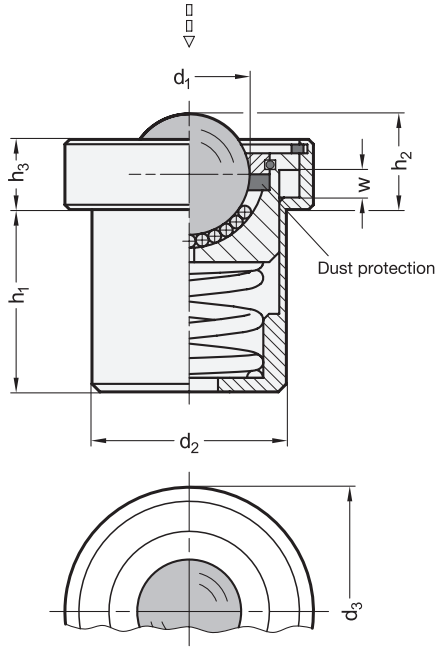
Ball Transfer Units

Steel Housing, with Spring



Metric

Metric table

1

Dimensions in: millimeters / inches

Size	d_1 Ball	d_2 ±0.1	d_3	h_1	h_2 ±0.3	h_3 ±0.3	w Stroke	Load C Dynamic	Load C Static
22	22.2 0.87	39 1.535	50 1.97	58 2.28	18.6 0.73	14 0.55	4.6 0.18	750 N 169 lbf	800 N 180 lbf
30	30.1 1.19	48.5 1.909	62 2.44	70 2.76	24.5 0.96	17.5 0.69	7 0.28	1350 N 303 lbf	2400 N 540 lbf

Specification

2 3

Housing
Steel, turned — **S**
- Blackened finish / zinc plated
- Not removable

Load ball
- Steel, plain finish — **BL**
- Stainless steel AISI 420C — **NI**

Spring
Steel
Hardened, ground

Bearing balls
- Steel, plain finish for load ball BL
- Stainless steel AISI 420C for load ball NI

Dust protection
Felt

RoHS

Technical Information	Page
Overview of Types of Ball Transfer Unit	QVX
Technical Instructions	QVX
Plastic Characteristics	QVX

Ball transfer units GN 509.7 are used in machine and device construction for such purposes as to move heavy loads in any direction without the need to exert high levels of force. The spring ensures even distribution of the load over multiple ball transfer units. This is necessary when the load centers of gravity are arranged asymmetrically or when the support surfaces are uneven. The roller bearing of the ball ensures reliable operation and a long service life.

The ball transfer units are inserted from above into a corresponding mounting hole and held by gravity. The load is transferred via the housing collar.

see also...	Page
GN 509 Ball Transfer Units (Steel / Stainless Steel Sheet Metal Housing, with Flange)	QVX
GN 509.1 Heavy Duty Ball Transfer Units (Steel / Stainless Steel Housing, Solid, with Flange)	QVX
GN 509.4 Heavy Duty Ball Transfer Units (Steel Sheet Metal Housing, without Flange)	QVX
GN 509.5 Ball Transfer Units (Steel Housing, Solid, with Threaded Stud)	QVX
GN 509.6 Ball Transfer Units (Steel Housing, Solid, with Internal Thread)	QVX
GN 509.8 Ball Transfer Units (Steel Sheet Metal Housing, with Mounting Flange)	QVX
GN 509.10 Ball Transfer Units (Stainless Steel Housing, Solid, Friction Bearing)	QVX

How to order

1 2 3

GN 509.7-22-SNI

1	**Size**
2	**Housing material**
3	**Load ball material**