

# SKF spherical washer



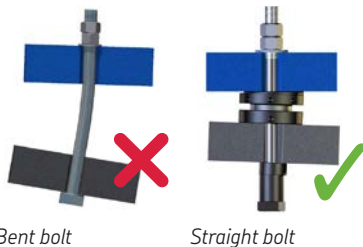
Spherical washers from SKF are designed to create an exact parallel plane between the bolt head and the face of the nut. This spherical washer automatically adjusts to compensate for angle errors and eliminate bolt bending.

Another major advantage of the spherical washer is that it has been engineered to enable to easily machine down its height. Standard SKF spherical washers come in surface treated alloy steel. SKF stocks the standard height (type SW), and low profile (type SWLP) version. The treated surface gives the SKF spherical washers protection in humid and salty environments.

Please contact [vibracon@skf.com](mailto:vibracon@skf.com) for more information.

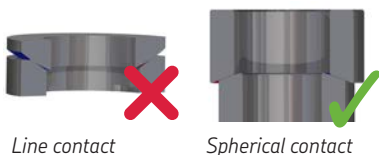
## The main advantages are:

- It automatically adjusts to compensate for angle errors
- Bolt tension is evenly distributed
- Increased bolt stretch possible due to increased clamping length
- Design and use of high-grade alloy steel provides reliability
- Eliminates bolt bending
- Reduces bolt fatigue
- Avoid spot-facing



*Bent bolt*

*Straight bolt*

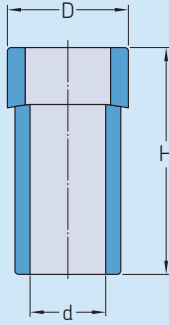


*Line contact*

*Spherical contact*

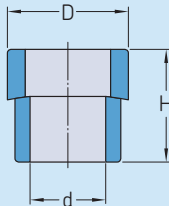


### SKF spherical washer type SW



Art. Code	Metric D	Metric d	Imperial D	Imperial d	Height H (Metric)	Height H (Imperial)
	mm		in.		mm	in.
SMSW 16 -ASTR	33	17	1.3	0.67	60	2.36
SMSW 20 -ASTR	42	23	1.65	0.91	60	2.36
SMSW 24 -ASTR	47	27	1.85	1.06	60	2.36
SMSW 27 -ASTR	52	30	2.05	1.18	60	2.36
SMSW 30 -ASTR	56	34	2.2	1.34	60	2.36
SMSW 36 -ASTR	67	40	2.64	1.57	60	2.36
SMSW 42 -ASTR	82	46	3.23	1.81	60	2.36
SMSW 48 -ASTR	92	52	3.62	2.05	60	2.36
SMSW 56 -ASTR	102	59	4.02	2.32	60	2.36
SMSW 64 -ASTR	112	66	4.41	2.60	60	2.36

### SKF spherical washer type SWLP



Art. Code	Metric D	Metric d	Imperial D	Imperial d	Height H (Metric)	Height H (Imperial)
	mm		in.		mm	in.
SMSW 16 LP-ASTR	33	17	1.3	0.67	20	0.79
SMSW 20 LP-ASTR	42	23	1.65	0.91	22	0.87
SMSW 24 LP-ASTR	47	27	1.85	1.06	24	0.94
SMSW 27 LP-ASTR	52	30	2.05	1.18	26	1.02
SMSW 30 LP-ASTR	56	34	2.2	1.34	28	1.10
SMSW 36 LP-ASTR	67	40	2.64	1.57	30	1.18
SMSW 42 LP-ASTR	82	46	3.23	1.81	34	1.34

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