

MECLEV® SPHERICAL EXTENSION SLEEVES



The MecLev® Spherical Extension Sleeves (SES) is a bush combined with a spherical washer on one end, that assures 100% nut pull on critical bolt and stud assemblies. The SES elements are designed in order to combine the functionality of creating extra stretch length to bolted connections, as well as correcting angular misalignment between bolted planes up to 4°.

Standard Spherical Extension Sleeves have a length of 60mm, lower versions are standard available as per table. Alternative lengths are available on request.

USE & BENEFITS

The contact area of the convex/concave surfaces is complete, meaning that no line contact between the rings is produced (possible break out of the concave ring), which guarantees a maximum transmission of the applied force.

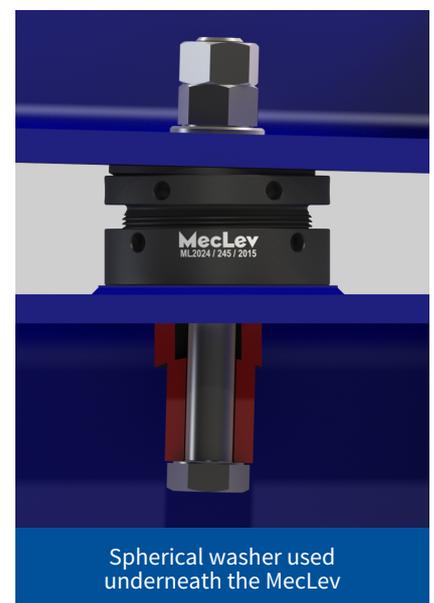
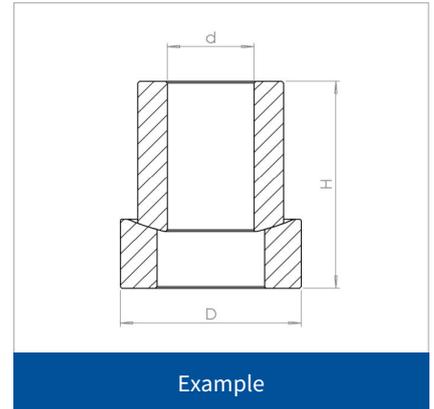
The special design of the convex/concave part guarantees 100% force transmission, which means that the bolts full tightening torque can be applied and therefore zero clamping force reduction is applicable! The use of Spherical Extension Sleeves avoids the need for (on-site) machining (spot-facing) of the plane parallel to the top plate.

FEATURES & PROPERTIES

- 100% force transmission, therefore no reduced torque is required.
- Large stock availability for common sizes.
- Standard height 60mm, for the lower SES see table..
- High strength steel.
- Surface treatment for high resistance against corrosion.
- Angular correction up to 4°.

SELECTING YOUR SPHERICAL EXTENSION SLEEVES

Size	Outside diameter bottom washer (D)	Inside diameter top bush (d)	Height (H)	Weight	Bold	Bold
	mm	mm	mm	Kg	DIN	imp.
SES-16ST00	36	17	60	0,25	M16	5/8"
SES-20ST00	45	21	60	0,39	M20	3/4"
SES-24ST00	52	25	60	0,50	M24	7/8"
SES-27ST00	65	28	60	0,75	M27	1"
SES-30ST00	65	31	60	0,70	M30	1-1/8"
SES-33ST00	79	34	60	1,09	M33	1-1/4"
SES-36ST00	79	37	60	1,04	M36	1-3/8"
SES-39ST00	93	40	60	1,64	M39	1-1/2"
SES-42ST00	93	43	60	1,58	M42	
SES-45ST00	97	46	60	1,69	M45	1-3/4"
SES-48ST00	97	50	60	2,24	M48	
SES-52ST00	102	54	60	2,43	M52	2"
SES-56ST00	102	58	60	2,30	M56	2-1/4"
SES-64ST00	112	66	60	2,55	M64	2-1/2"
SES-16ST01	36	17	20	0,11	M16	5/8"
SES-20ST01	45	21	22	0,13	M20	3/4"
SES-24ST01	52	25	24	0,17	M24	7/8"
SES-30ST01	65	31	28	0,28	M30	1-1/8"
SES-36ST01	79	37	30	0,52	M36	1-3/8"
SES-42ST01	93	43	34	0,89	M42	1-5/8"



WHEN NONE OF THE SIZES SUITS YOUR APPLICATION, PLEASE CONTACT MECLEV® FOR A TAILOR MADE SOLUTION!

COOPERATING PARTNERS



MORE DETAILED INFORMATION AND MOUNTING INSTRUCTIONS?

Please visit our website www.meclev.com or contact your local MecLev® dealer!