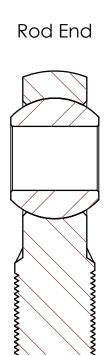
CHOOSING WHICH TYPE OF SPACER IS RIGHT FOR YOUR APPLICATION



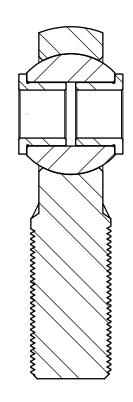




Rod end (or commonly referred to as Heim Joint)offers a cost effective and strong option when chosing a joint, but is very limited in its maximum range of motion when installed into a bracket or steering system.



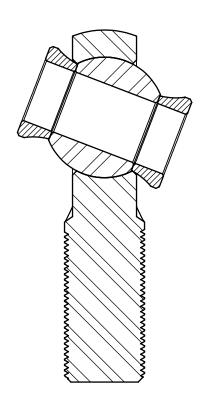
Step Down Spacer



Step Down Spacers offer little added mounting width to the joint and reduce the size of the bolt required. These are most often utilized with Trac Bars, Panhard bars and Tie Rod links that require little-to-no misalignment. The bolt hole diameter is reduced for convenience or weight savings if the hardware is oversized for the application



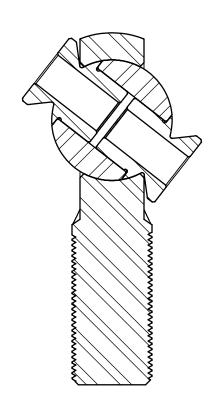
Rod End Spacer



Standard Rod End Spacers are useful for when bolt size should not be reduced. They also offer more clearance from mounting surfaces (brackets, steering arm etc)



High Misalignment Spacer



High Misalignment Spacers
offer the highest amount misalignment
by reducing the bolt hole size
and extending radius of ball. These are most comonly
used for linkages that require lots of axial and radial
movement, like those found in drag links, control
arms, 3-links and 4-links.



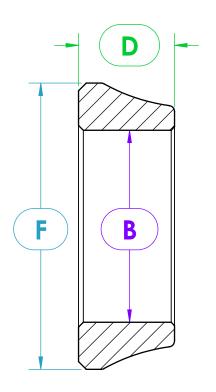
HIGH MISALIGNMENT SPACERS



BALLISTIC FABRICATION SKU	(A) Rod End Ball Bore Diameter	(B) Bolt Diameter in Spacer	(C) Assembled Mountng Width	(D) Spacer Width	(E) Max Misalignment Angle	(F) Major Outside Diameter	(G) Shoulder Width	(H) Ball Diameter
HMS-502-1	1.00"	.750" (7/8)	3.00"	1.440"	32°	1.240"	.625" (5/8)	1.875" (1 7/8)
HMS-502	1.00"	.750" (7/8)	2.625" (2 5/8)	1.250"	32°	1.240"	.625" (5/8)	1.875" (1 7/8)
HMS-501	1.00"	.625" (5/8)	2.625" (2 5/8)	1.250"	36°	1.240"	.625" (5/8)	1.875" (1 7/8)
HMS-503	1.00"	.5625" (9/16)	2.625" (2 5/8)	1.250"	39°	1.240"	.625" (5/8)	1.875" (1 7/8)
HMS-511-1	.875" (7/8)	.750" (3/4)	2.00"	.938"	18.5°	1.240"	.5625" (9/16)	1.750" (1 3/4)
HMS-701	.875" (7/8)	.625" (5/8)	1.73"	.850"	25°	1.490"	.490''	1.750" (1 3/4)
HMS-512	.875" (7/8)	.625" (5/8)	2.00"	.938"	20°	1.240"	.5625" (9/16)	1.750" (1 3/4)
HMS-513	.875" (7/8)	.5625 (9/16)	2.00"	.938"	26°	1.240"	.5625" (9/16)	1.750" (1 3/4)
HMS-510	.750" (3/4)	.625" (5/8)	1.75"	.815"	33°	.990''	.440"	1.280"
HMS-515	.750" (3/4)	.5625" (9/16)	1.75"	.815"	35°	.990''	.440''	1.280"
HMS-509	.750'' (3/4)	.500" (1/2)	1.75"	.815	37°	.990''	.440"	1.280"
HMS-1805	.750" (3/4)	.500" (1/2)	2.00"	.975"	35°	.990''	.625" (5/8)	1.188" (1 3/16)
HMS-508	.625" (5/8)	.500 (1/2)	1.50"	.725"	30°	.865"	.375" (3/8)	1.136"

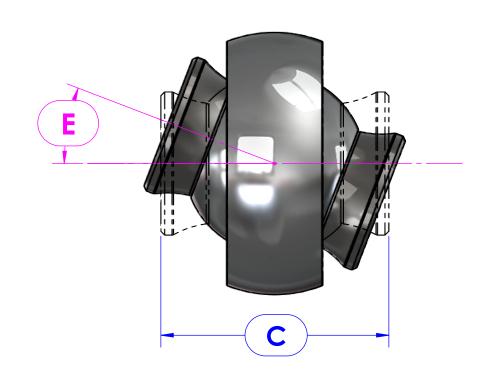
Standard Rod End Spacer







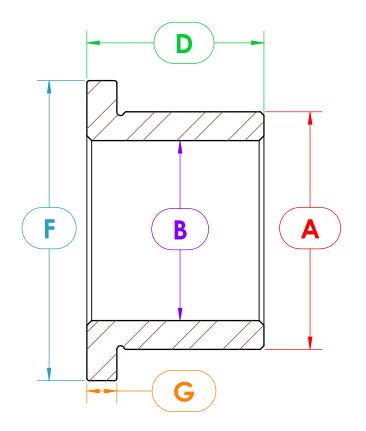




BALLISTIC FABRICATION SKU	(B) Bolt Diameter in Spacer	(C) Assembled Mountng Width	(D) Spacer Width	(E) Max Misalignment Angle	(F) Major Outside Diameter
SPA-551	1.00"	2.625" (2 5/8")		21°	1.50"
SPA-552	.875" (7/8)	2.00"		19°	1.25"
SPA-553	.750" (3/4)	1.75"	.440''	1 <i>7</i> °	
SPA-554	.625" (5/8)			13°	1.00"
SPA-555	.500" (1/2)			11°	

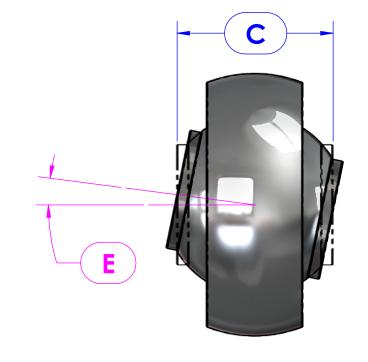


STEP DOWN SPACER









BALLISTIC FABRICATION SKU	(A) Rod End Ball Bore Diameter	(B) Bolt Diameter in Spacer	(C) Assembled Mountng Width	(D) Spacer Width	(E) Max Misalignment Angle	(F) Major Outside Diameter	(G) Shoulder Width
SPA-561	.625" (5/8)	.500" (1/2)		.475"	11°	.850"	.062" (1/16)
SPA-562	.625" (5/8)	.500" (1/2)		.475"	14°	.850"	.120" (1/8)
SPA-564	.750" (3/4)	.625" (5/8)	.980''	.438"	10°	.990''	.062" (1/16)
SPA-565	.875" (7/8)	.750" (3/4)	1.00"	.438"	7.5°	1.05"	.062" (1/16)
SPA-566	.875" (7/8)	.625" (5/8)	1.00"	.438	7.5°	1.05"	.062" (1/16)