

INTRODUCTION — The general practice in industry is to supply coupling hubs without fillet radii in the keyway corners to permit the use of standard commercial keys instead of keys with chamfered edges.

In some applications, where there is considerable vibratory or shock loading, keyways with filleted radii are used to reduce stress concentrations that may cause hub failure.

Falk will provide filleted keyways when requested (without charge), to either the Falk Standard or Alternate size listed. When "Keyway with Radii" is requested on your order, with no given size, the Falk standard will be provided. Refer to Falk for prices of filleted keyways for unlisted radii sizes.

Nominal Bore		Key Size			Keyway Size					
Over	Thru	Width x Height	Suggested Chamfer for Standard Filleted Keyways 45° (+.005 - .000)	Width x Depth	Tolerance		Optional Fillet Radii			
					Width	Depth	Standard † (±.010)	Alternate (±.010)		
.4375	.5625	.125 x .125	.031 (1/32)	Broached	.125 x .062	+ .0020—0.000	+ .010 to +.020	.016 (1/64)	....
.5625	.875	.1875 x .1875	.031 (1/32)		.1875 x .094	+ .0020—0.000	+ .010 to +.020	.016 (1/64)	.031 (1/32)	
.875	1.250	.250 x .250	.031 (1/32)		.250 x .125	+ .0020—0.000	+ .010 to +.020	.016 (1/64)	.031 (1/32)	
1.250	1.375	.3125 x .3125	.047 (3/64)		.3125 x .156	+ .0020—0.000	+ .010 to +.020	.031 (1/32)	....
1.375	1.750	.375 x .375	.047 (3/64)		.375 x .188	+ .0025—0.000	+ .010 to +.020	.031 (1/32)	.062 (1/16)	
1.750	2.250	.500 x .500	.047 (3/64)		.500 x .250	+ .0025—0.000	+ .010 to +.020	.031 (1/32)	.062 (1/16)	
2.250	2.750	.625 x .625	.078 (5/64)		.625 x .312	+ .0030—0.000	+ .010 to +.020	.062 (1/16)	.031 (1/32)	
2.750	3.250	.750 x .750	.078 (5/64)		.750 x .375	+ .0030—0.000	+ .010 to +.020	.062 (1/16)	.031 (1/32)	
3.250	3.750	.875 x .875	.078 (5/64)		.875 x .438	+ .0030—0.000	+ .010 to +.020	.062 (1/16)	.031 (1/32)	
3.750	4.500	1.000 x 1.000	.078 (5/64)		1.000 x .500	+ .0030—0.000	+ .010 to +.020	.062 (1/16)	....
4.500	5.500	1.250 x 1.250	.156 (5/32)		1.250 x .625	+ .0035—0.000	+ .010 to +.020	.125 (1/8)	.062 (1/16)	
5.500	6.500	1.500 x 1.500	.156 (5/32)		1.500 x .750	+ .0035—0.000	+ .010 to +.020	.125 (1/8)	.062 (1/16)	
6.500	7.500	1.750 x 1.500	.156 (5/32)		1.750 x .750	+ .0040—0.000	+ .010 to +.020	.125 (1/8)	....
7.500	9.000	2.000 x 1.500	.156 (5/32)		2.000 x .750	+ .0040—0.000	+ .010 to +.020	.125 (1/8)	....
9.000	11.000	2.500 x 1.750	.156 (5/32)		Keyseated	2.500 x .875	+ .0045—0.000	+ .010 to +.020	.125 (1/8)
11.000	13.000	3.000 x 2.000	.219 (7/32)			3.000 x 1.000	+ .0045—0.000	+ .010 to +.020	.188 (3/16)
13.000	15.000	3.500 x 2.500	.219 (7/32)	3.500 x 1.250		+ .0050—0.000	+ .010 to +.020	.188 (3/16)	....
15.000	18.000	4.000 x 3.000	.281 (9/32)	4.000 x 1.500		+ .0050—0.000	+ .010 to +.020	.250 (1/4)	....
18.000	22.000	5.000 x 3.500	.281 (9/32)	5.000 x 1.750		+ .0060—0.000	+ .010 to +.020	.250 (1/4)	....
22.000	26.000	6.000 x 4.000	.406 (13/32)	6.000 x 2.000		+ .0060—0.000	+ .010 to +.020	.375 (3/8)	....
26.000	30.000	7.000 x 5.000	.406 (13/32)	7.000 x 2.500		+ .0060—0.000	+ .010 to +.020	.375 (3/8)	....

Shallow keyway depths must exceed 2/3 of the full keyway depth of the square keys shown above.
 † Fillet radii comply with AGMA 9002-A86.