

# Fillet, Chamfer, Break, or Join Objects

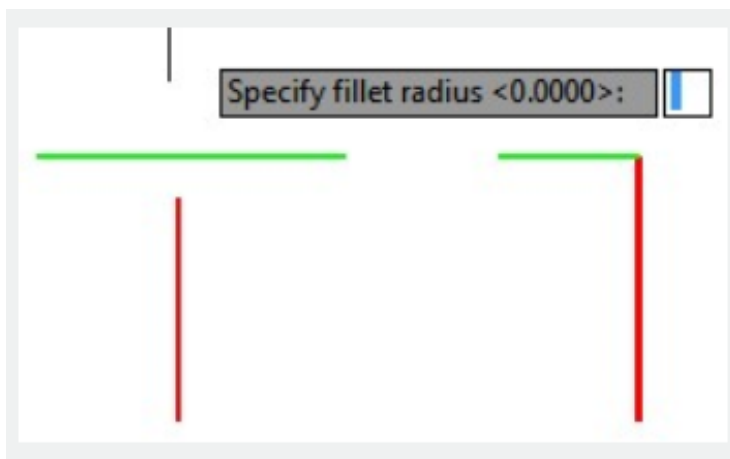
2548 GstarCAD MY /KW November 9, 2021 [Workflow](#) 0 1518

## Create Fillets

With a [FILLET](#) , you can join two objects with a tangent arc of a specified radius.

## Set the Fillet Radius

When the radius of the filleted is changed, it will affects subsequent fillets. If the fillet radius is set to 0, no arc is created, but the filleted objects will be trimmed or extended until they intersect. You can override the current fillet radius of selected objects with a value of 0 by holding down SHIFT while selecting.



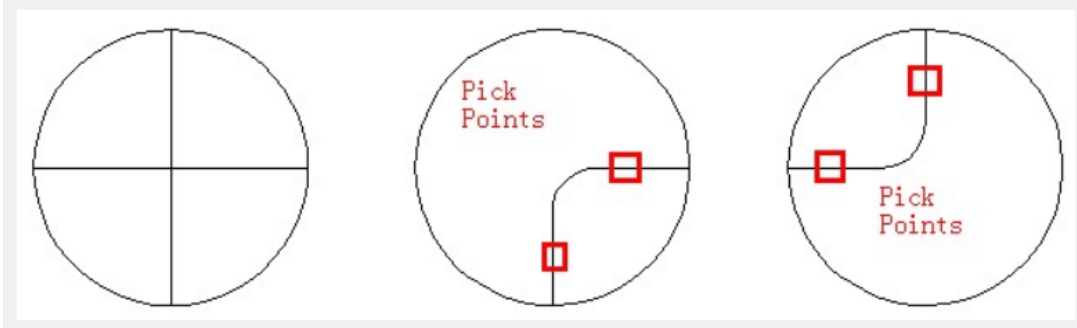
## [TRIM](#) and Extend Filleted Objects

You can choose whether the selected objects are left unchanged or trimmed or extended to the endpoints of the resulting arc.



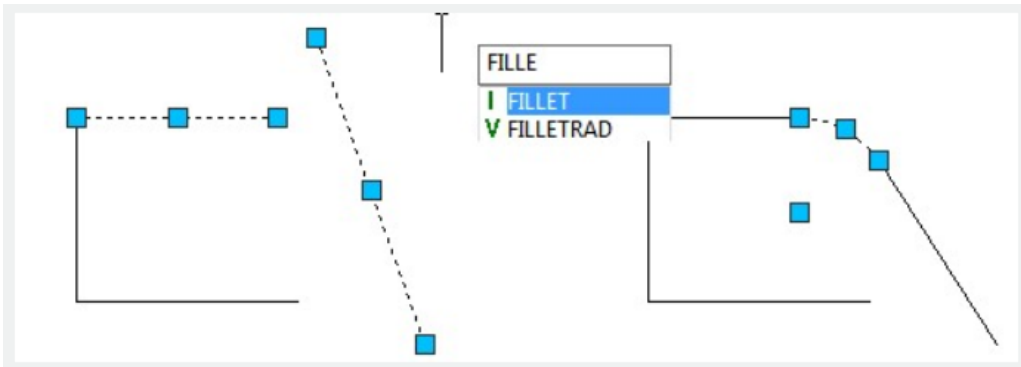
## Control the Location of the Fillet

More than one possible fillet can exist between the selected objects, depending on the locations you specify.



## Fillet Line and Polyline Combinations

When you fillet lines with [PLINE](#), the filleted objects and the fillet arc will be connected to form a single new polyline if the [TRIM](#) option is on.

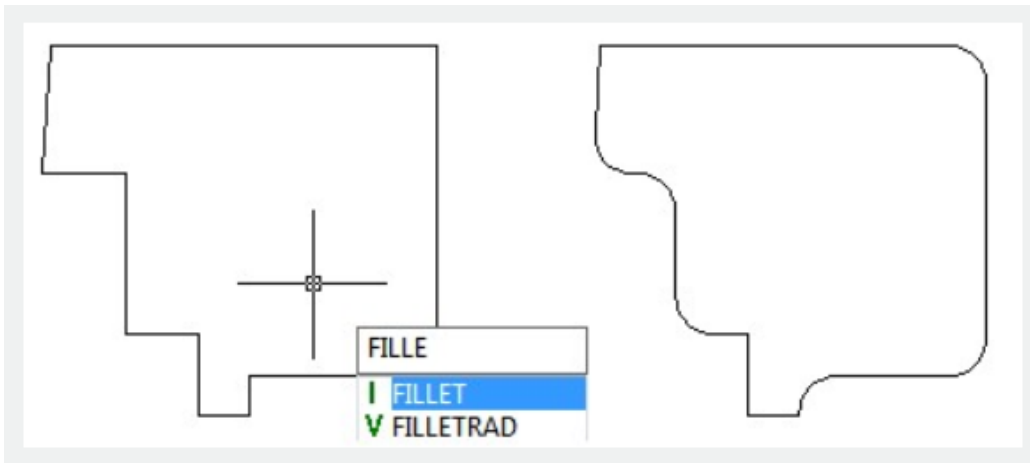


## Fillet an Entire Polyline

With P(Polyline) options you can fillet entire polyline or remove fillets from entire polyline.

If fillet radius is nonzero, FILLET will insert fillet arcs at the vertex of each polyline segment that is long enough and will replace the arc segments.

if the fillet radius is set to 0, no fillet arcs are inserted.

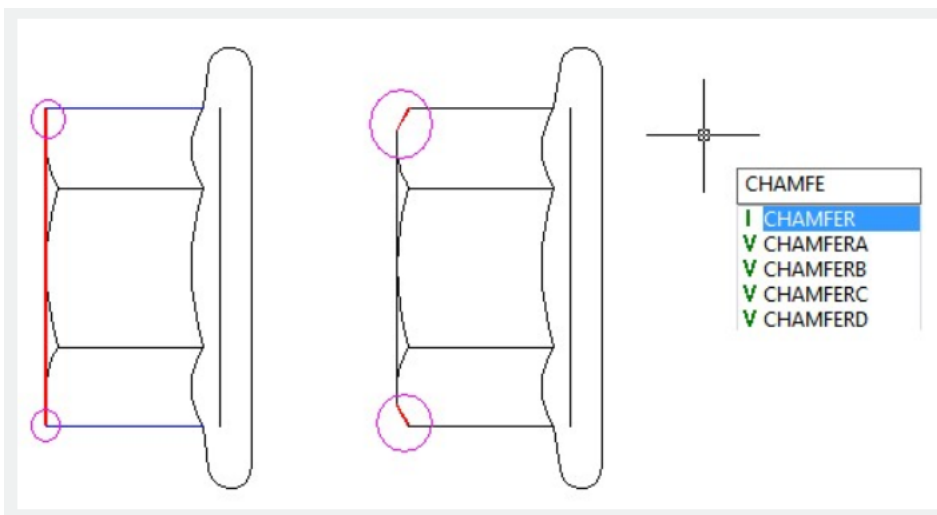


### Fillet Parallel Lines

Parallel lines, xlines ([XLINE](#)) and rays ([RAY](#)) can also be filleted. The first object you select, has to be a line or a ray, while the second one can be a line, an xline or a ray.

### Create Chamfers

Two objects are connected with a chamfer to meet in a flattened or beveled corner. With the single command [CHAMFER](#), all corners of a polyline can be beveled.

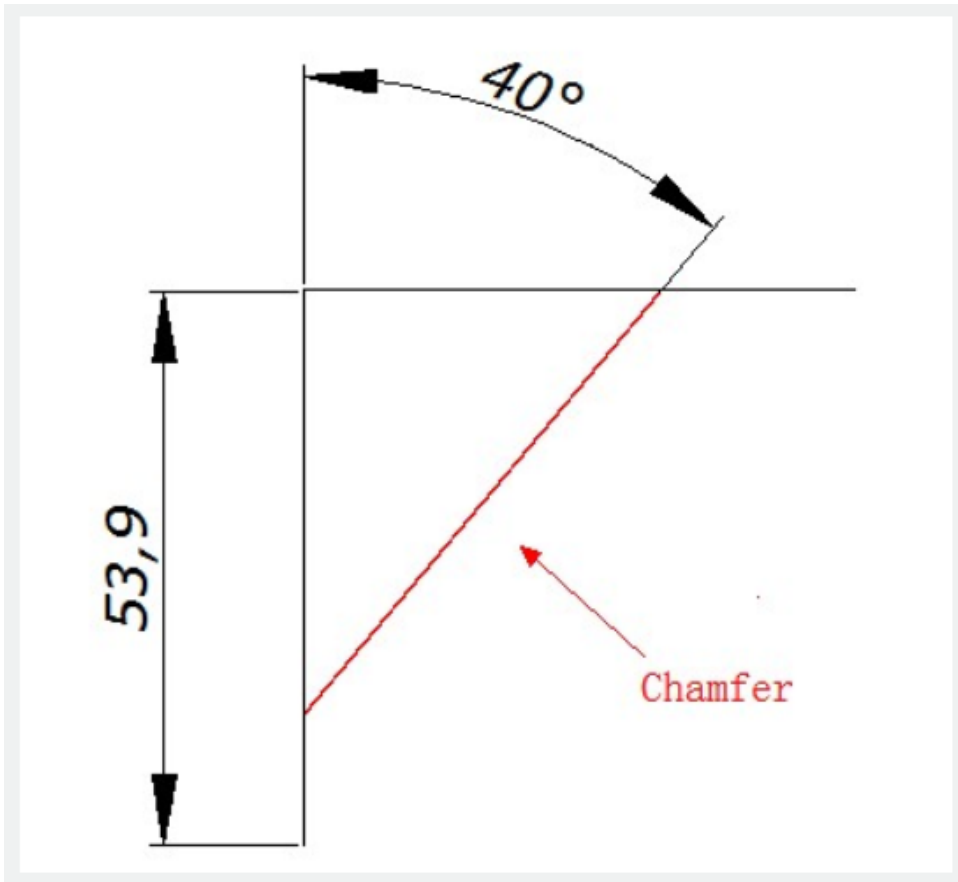


### Chamfer by Specifying Distances

To meet the chamfer line specified by chamfer distance, each object is trimmed or extended to intersect the other. Two objects are trimmed or extended only if both chamfer distances are 0. If you hold down SHIFT while selecting the objects, the Current chamfer distances will be overridden with a value of 0.

### Chamfer by Specify Length and Angle

You can specify chamfer length on the first line and angle of chamfer instead of distances..



### **Chamfer Polylines and Polyline Segments**

If segments of a polyline are selected as the two objects for chamfering, they must be connected or separated by no more than one arc segment. If they are separated by an arc segment, the arc will be replaced with a chamfer line.

### **Chamfer an Entire Polyline**

When you chamfer an entire polyline, each intersection is chamfered. For best results, keep the first and second chamfer distances equal.

### **Break Objects**

You can break an object into two objects with or without a gap between them. The fastest way to break an object is pressing Break at Point button on toolbar.

### **Join Objects**

To merge similar objects into a single object, you can use [JOIN](#) . Arcs ([ARC](#)) and elliptical arcs can also be turned into complete circles and ellipses.

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