



# ADJUSTABLE JOINTS

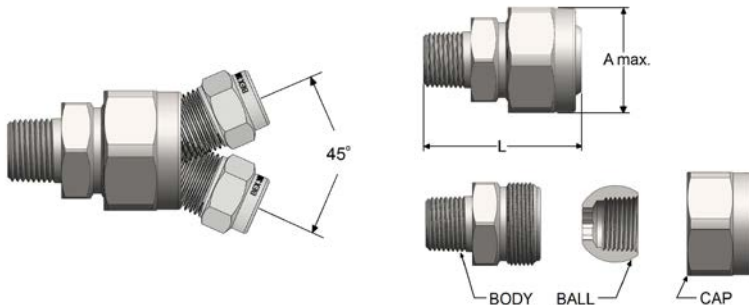
## MAJ Series Retaining cap style Adjustable Joints

### TYPICAL APPLICATIONS:

The MAJ series of adjustable joints allow spray nozzles or other threaded items to be rotated and tilted to obtain the desired spray pattern or orientation, without having to disturb the surrounding piping. They may also be used within piping systems as an adjustable union type connection.

### CONSTRUCTION:

The unit consists of a male inlet section and a female outlet section, held together by a threaded cap. The cap may be loosened to change the angle of adjustment between the inlet and outlet sections. Maximum recommended operating pressure is 300 psi. Standard materials are brass, 303 stainless steel, and 316 stainless steel.



### DIMENSIONS

MODEL NUMBER	Inlet Pipe Size NPT	Outlet Pipe Size NPT	Dim. A (max) (inches)	Dim. L (max) (inches)
1/8MAJ	1/8 male	1/8 female	0.97	1.4
1/4MAJ	1/4 male	1/4 female	1.1	1.6
3/8MAJ	3/8 male	3/8 female	1.4	1.8
1/2MAJ	1/2 male	1/2 female	1.7	2.2
3/4MAJ	3/4 male	3/4 female	1.9	2.6

Other combinations are available.

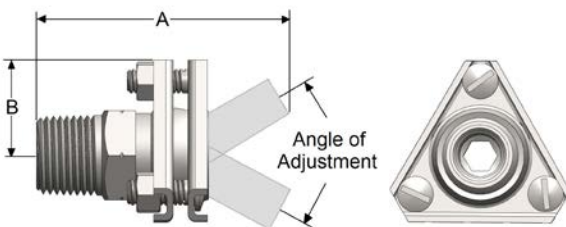
## AJ Series Flanged Adjustable Joints

### TYPICAL APPLICATIONS:

To rotate and tilt spray nozzles, to obtain a desired positioning of a spray pattern, without having to disturb surrounding piping. May also be used within piping systems as an adjustable union type connection. Maximum recommended operating pressure is 120 p.s.i.

### CONSTRUCTION:

The unit consists of a male inlet section and a female outlet section, held together by a flange assembly. Locking screws may be loosened to change the angle of adjustment between the inlet and outlet sections. Standard materials are brass and 303 or 316 stainless steel with 304 stainless steel flanges.



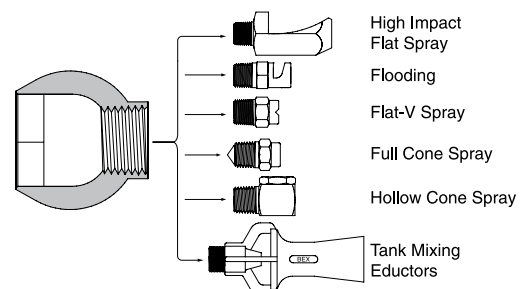
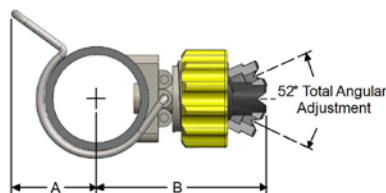
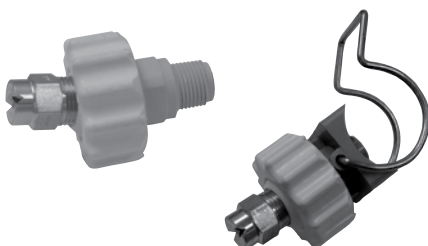
Inlet of ball is hexagonal for easy holding

### DIMENSIONS (inches)

MODEL NUMBER	INLET PIPE SIZE	OUTLET PIPE SIZE	Dim. A (inches)	Dim. B (inches)	Maximum Angle of Adjustment
1/8 x 1/8	1/8 male	1/8 female	1 3/4	1	60°
1/4 x 1/8	1/4 male	1/8 female	1 3/4	1	60°
1/4 x 1/4	1/4 male	1/4 female	1 3/4	1	60°
3/8 x 1/4	3/8 male	1/4 female	1 3/4	1	60°
3/8 x 3/8	3/8 male	3/8 female	1 3/4	1	45°
1/2 x 1/2	1/2 male	1/2 female	2 1/2	1 1/2	50°
1/8 x 3/4	1/8 male	3/4 female	2 1/2	1 1/2	50°
3/4 x 1/2	3/4 male	1/2 female	2 5/8	1 1/2	50°
3/4 x 3/4	3/4 male	3/4 female	2 5/8	1 1/2	40°

## K-Ball® Clip-ons as Adjustable Joints

Use the threaded or clip-on K-Ball® to "tilt" the spray pattern into almost any desired orientation.



Ball has a hexagonal interior for easy holding