

# Floating Joints

## -Mounting Flanges & Cylinder Connectors Complete Sets-



Floating Joints connect air cylinder rods to moving machine parts. They are extremely compact, economical and able to absorb substantial mounting misalignments. They introduce enhanced service flexibility whenever an actuating rod must be connected to other machine elements. See application examples for more details.

### Mounting Flanges

Standard  
**U-FJA**

Split  
**U-FJB**

Compact  
**U-FJC**

P.C.D. 0.0625 P.C.D.

2 (4) x d  
c-bore d1, H1 dp

A D1 D2  
G E F  
t +0.010  
+0.005

### Cylinder Connectors

0.015 x 45°  
R0.008  
0.030 x 45°  
SR  
H L1 D  
h +0.000  
-0.005  
T W

**Mounting Flanges**  
Material 1045 Steel  
Surface Treatment Black Oxide  
Hardness 50-55HRC

**Cylinder Connectors**  
Material 1045 Steel  
Surface Treatment Black Oxide  
Hardness 50-55HRC  
Part Induction Hardened 45-50HRC

Material Characteristics **P.628**

Surface Roughness: Unless otherwise specified  $1000\sqrt{\text{ }}$

**General Tolerance**  
Unless otherwise specified use the table below.

From	To	Tolerance
0.000	5.000	±0.01
5.001	16.000	±0.02
16.001	60.000	±0.05

Thread or hole location tolerance: ±0.005\* non-cumulative.

Type	Part No.			\$ Unit Price (Qty. 1-4)		
	Callout	T (Thread)	Major Dia.	U-FJA	U-FJB	U-FJC
U-FJA U-FJB U-FJC	10	#10-32	0.190	10.90	12.40	10.90
	0.25	1/4-28	0.250	12.20	13.20	12.20
	0.31	5/16-24	0.313	13.30	14.30	13.30
	0.38	3/8-24	0.375	13.70	14.70	13.70
	0.50	1/2-20	0.500	20.00	22.40	20.00
	0.63	5/8-18	0.625	29.50	32.20	29.50
	0.75	3/4-16	0.750	31.70	35.00	31.70

### Order Example

Part No.

Type  T

U-FJA 0.50

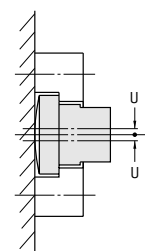
The part number consists only of the fields with blue characters. Please refer to the table below for technical information.

### Technical Information for Mounting Flanges

T (Thread)	Mounting Flanges										
Callout	A	D1	D2	t	F	P.C.D.	d	d1	H1	E	G
10	1.88	0.790	0.540	0.250	0.50	1.31	0.206	0.375	0.206	1.13	1.31
0.25	1.88	0.790	0.540	0.250	0.50	1.31	0.206	0.375	0.206	1.13	1.31
0.31	2.13	0.978	0.728	0.313	0.63	1.50	0.281	0.438	0.281	1.19	1.50
0.38	2.19	1.040	0.790	0.313	0.63	1.56	0.281	0.438	0.281	1.25	1.56
0.50	2.59	1.424	1.019	0.375	0.75	1.88	0.344	0.531	0.344	1.63	1.88
0.63	3.13	1.813	1.375	0.500	1.00	2.38	0.406	0.625	0.406	2.00	2.38
0.75	3.75	2.160	1.660	0.625	1.25	2.81	0.531	0.813	0.531	2.38	2.81

### Amount of Allowable Eccentricity (inch)

T (Thread)	U
10-0.38	0.020
0.50	0.040
0.63	0.063
0.75	0.080



### Technical Information for Cylinder Connectors

T (Thread)	Cylinder Connectors							
Callout	ℓ	L	D	H	h	W	L1	SR
10	0.38	0.88	0.500	0.750	0.250	0.438	0.31	2.00
0.25	0.50	0.88	0.500	0.750	0.250	0.438	0.31	2.00
0.31	0.56	1.00	0.688	0.938	0.313	0.500	0.38	2.38
0.38	0.63	1.00	0.750	1.000	0.313	0.500	0.38	4.00
0.50	0.69	1.38	0.969	1.344	0.375	0.875	0.50	4.00
0.63	0.94	1.75	1.250	1.688	0.500	1.125	0.63	4.00
0.75	1.19	2.19	1.500	2.000	0.625	1.375	0.69	8.00

### Quantity Discount Rate

Quantity	1-4	5-9	10-19	20-
Rate	—	2%	3%	5%

For larger quantity orders "Days to Ship" may differ from published catalog term. P.29

### Backing Plates

**U-BPFA**

**U-BPFC**

Material 1045 Steel  
Surface Treatment Black Oxide  
Hardness 45-50HRC  
Material Characteristics **P.628**

Surface Roughness: Unless otherwise specified  $1000\sqrt{\text{ }}$

**General Tolerance**  
Unless otherwise specified use the table below.

From	To	Tolerance
0.000	5.000	±0.01
5.001	16.000	±0.02
16.001	60.000	±0.05

Thread or hole location tolerance: ±0.005\* non-cumulative.

Part No. Type	Callout	A	P.C.D.	K	\$ Unit Price
					Qty. 1-4
U-BPFA	10	1.88	1.31	0.206	3.30
	0.25	1.88	1.31	0.206	3.30
	0.31	2.13	1.50	0.281	3.60
	0.38	2.19	1.56	0.281	3.60
	0.50	2.59	1.88	0.344	4.90
	0.63	3.13	2.38	0.406	6.70
0.75	3.75	2.81	0.531	8.30	

The part number consists only of the fields with blue characters.

Order Example

Part No.

Type  Callout

U-BPFA 0.50

Days to Ship **1** Day

Price

Quantity	1-4	5-9	10-19	20-
Rate	—	2%	3%	5%

For larger quantity orders "Days to Ship" may differ from published catalog term. P.29

### Example

• Split Type allows quick assembly.

• Compact Type takes little mounting space.

Mounting Flanges P.423  
Cylinder Connectors P.424

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**Express Options**  
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**MISUMI**  
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