

Cantilever Shafts – Flanged Shafts–



Cantilever Shafts are generally used in combination with rotary bearings, pulleys or as swivel mechanisms. They are often used as the idler portion of a rotary system and are mounted on a flat surface. Choose from a 1045 carbon steel or 304 stainless steel. The "Flanged" is structurally stronger than the "Standard". It comes in three different styles: "Retaining Groove", "Tapped" and "Threaded".

Retaining Ring Groove



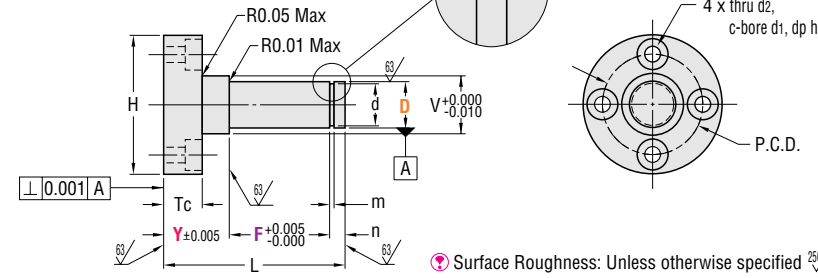
General Tolerance
Unless otherwise specified use the table below.

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.

Material	Surface Treatment	Type
1045 Steel	Black Oxide	U-FXFA
	Electroless Nickel Plating	U-PFXFA
304 Stainless Steel	-	U-SFXFA

Ⓢ Material Characteristics P.628, 629



Ⓢ Surface Roughness: Unless otherwise specified

Type	Part No.			Choose in 0.001" Increments		L	V	H	Tc	d1	d2	h	Compatible Bolt	P.C.D.
	Callout	Nominal	Tolerance	Y	F									
U-FXFA U-PFXFA U-SFXFA	0.25	1/4	0.2498 0.2494	0.375 ~ 2.250	0.250 ~ 3.875	Y+F+n	0.330	1.00	0.25	0.250	0.141	0.141	#5	0.688
	0.38	3/8	0.3748 0.3744	0.438 ~ 2.250	0.250 ~ 3.875	Y+F+n	0.438	1.19	0.31	0.281	0.154	0.154	#6	0.813
	0.50	1/2	0.4998 0.4994	0.438 ~ 2.250	0.250 ~ 3.875	Y+F+n	0.625	1.38	0.31	0.313	0.180	0.180	#8	1.000
	0.63	5/8	0.6248 0.6244	0.531 ~ 2.250	0.375 ~ 5.750	Y+F+n	0.875	1.63	0.38	0.313	0.180	0.180	#8	1.250
	0.75	3/4	0.7497 0.7492	0.531 ~ 2.875	0.375 ~ 5.750	Y+F+n	1.000	1.88	0.38	0.375	0.206	0.206	#10	1.438
	1.00	1"	0.9997 0.9992	0.656 ~ 2.875	0.375 ~ 5.750	Y+F+n	1.437	2.38	0.50	0.375	0.206	0.206	#10	1.875

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

Part No. — Y — F

Type D

U-FXFA 0.50 — Y 1.375 — F 1.000

Retaining Ring Groove Tolerance & Details

D	Diameter d		Tolerance		Width m		n	R1 max	Compatible Retaining Rings (ASME B18.27-1998)
0.25	0.230	0.2315	0.2285	0.029	0.032	0.029	0.094	0.003	NA1- 25
0.38	0.352	0.3540	0.3500	0.029	0.032	0.029	0.125	0.005	NA1- 37
0.50	0.468	0.4700	0.4660	0.039	0.042	0.039	0.156	0.005	NA1- 50
0.63	0.588	0.5910	0.5850	0.039	0.042	0.039	0.156	0.005	NA1- 62
0.75	0.704	0.7070	0.7010	0.046	0.049	0.046	0.156	0.005	NA1- 75
1.00	0.940	0.9430	0.9370	0.046	0.049	0.046	0.156	0.005	NA1-100

Days to Ship

Standard 6 Days Ⓢ Non-Returnable P.30

Express 4 Days (Specify Express A) \$ 8.00/piece P.30

Ⓢ A flat charge of \$21.60 for 3 or more identical pieces.

Quantity Discount Rate

Quantity	Rate
1	—
2-4	5%
5-19	10%
20~	15%

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

D	\$ Unit Price		
	U-FXFA	U-PFXFA	U-SFXFA
0.25	16.40	19.70	24.60
0.38	18.70	22.40	28.10
0.50	21.10	25.30	31.70
0.63	24.60	29.60	37.00
0.75	31.70	38.00	47.60
1.00	37.40	44.90	56.20

Optional Modifications

Part No. — Y — F — (Ordering Code) (YKC, APC)

Type D

U-FXFA 0.50 — Y 1.375 — F 1.000 — YKC

Optional Modifications	Y Dimension Tolerance	Pilot Added																															
Ordering Code	YKC	APC																															
Details	Changes the Y dimension tolerance to ±0.002. [Example] YKC	Adds a pilot to the bottom of flange. [Example] APC																															
	<table border="1"> <thead> <tr> <th>D</th> <th colspan="3">APC</th> </tr> <tr> <th>D</th> <th>Dia.</th> <th colspan="2">Tolerance</th> </tr> </thead> <tbody> <tr> <td>0.25</td> <td>0.3125</td> <td>0.3123</td> <td>0.3119</td> </tr> <tr> <td>0.38</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> </tr> <tr> <td>0.50</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> </tr> <tr> <td>0.63</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> </tr> <tr> <td>0.75</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> </tr> <tr> <td>1.00</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> </tr> </tbody> </table>		D	APC			D	Dia.	Tolerance		0.25	0.3125	0.3123	0.3119	0.38	0.3750	0.3748	0.3744	0.50	0.3750	0.3748	0.3744	0.63	0.3750	0.3748	0.3744	0.75	0.3750	0.3748	0.3744	1.00	0.3750	0.3748
D	APC																																
D	Dia.	Tolerance																															
0.25	0.3125	0.3123	0.3119																														
0.38	0.3750	0.3748	0.3744																														
0.50	0.3750	0.3748	0.3744																														
0.63	0.3750	0.3748	0.3744																														
0.75	0.3750	0.3748	0.3744																														
1.00	0.3750	0.3748	0.3744																														
\$ Price Adder	4.00	6.00																															

Ⓢ When using Optional Modifications, add the "Price Adder" to the standard "Unit Price".

Tapped End



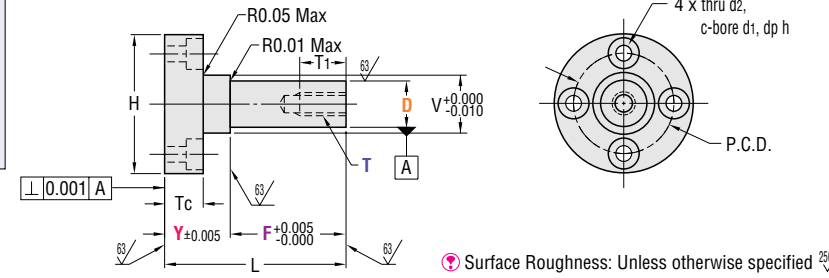
General Tolerance
Unless otherwise specified use the table below.

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.

Material	Surface Treatment	Type
1045 Steel	Black Oxide	U-FXFB
	Electroless Nickel Plating	U-PFXFB
304 Stainless Steel	-	U-SFXFB

Ⓢ Material Characteristics P.628, 629



Ⓢ Surface Roughness: Unless otherwise specified

Type	Part No.			Choose in 0.001" Increments		Thread Selection (Callout)						L	V	H	Tc	d1	d2	h	Compatible Bolt	P.C.D.		
	Callout	Nominal	Tolerance	Y	F	#6-32	#8-32	#10-32	1/4-20	5/16-18	3/8-16										1/2-13	5/8-11
U-FXFB U-PFXFB U-SFXFB	0.25	1/4	0.2498 0.2494	0.375 ~ 2.250	0.250 ~ 3.875	6								Y+F	0.330	1.00	0.25	0.250	0.141	0.141	#5	0.688
	0.38	3/8	0.3748 0.3744	0.438 ~ 2.250	0.250 ~ 3.875	6 8								Y+F	0.438	1.19	0.31	0.281	0.154	0.154	#6	0.813
	0.50	1/2	0.4998 0.4994	0.438 ~ 2.250	0.250 ~ 3.875	8 10 0.25								Y+F	0.625	1.38	0.31	0.313	0.180	0.180	#8	1.000
	0.63	5/8	0.6248 0.6244	0.531 ~ 2.250	0.375 ~ 5.750	10 0.25 0.31								Y+F	0.875	1.63	0.38	0.313	0.180	0.180	#8	1.250
	0.75	3/4	0.7497 0.7492	0.531 ~ 2.875	0.375 ~ 5.750	0.25 0.31 0.38								Y+F	1.000	1.88	0.38	0.375	0.206	0.206	#10	1.438
	1.00	1"	0.9997 0.9992	0.656 ~ 2.875	0.375 ~ 5.750	0.31 0.38 0.50 0.63							Y+F	1.437	2.38	0.50	0.375	0.206	0.206	#10	1.875	

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

Part No. — Y — F — T

Type D

U-FXFB 0.50 — Y 1.375 — F 1.000 — T 10

Technical Information

T (Thread)		Major Dia.	T1 (Depth)
Callout	Thread Size		
6	#6-32	0.138	0.28
8	#8-32	0.164	0.33
10	#10-32	0.190	0.38
0.25	1/4-20	0.250	0.50
0.31	5/16-18	0.313	0.63
0.38	3/8-16	0.375	0.75
0.50	1/2-13	0.500	1.00
0.63	5/8-11	0.625	1.25

Days to Ship

Standard 6 Days Ⓢ Non-Returnable P.30

Express 4 Days (Specify Express A) \$ 8.00/piece P.30

Ⓢ A flat charge of \$21.60 for 3 or more identical pieces.

Quantity Discount Rate

Quantity	Rate
1	—
2-4	5%
5-19	10%
20~	15%

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

D	\$ Unit Price		
	U-FXFB	U-PFXFB	U-SFXFB
0.25	19.70	23.50	29.50
0.38	22.40	27.00	33.70
0.50	25.30	30.20	37.90
0.63	29.60	35.50	44.50
0.75	38.00	45.70	57.10
1.00	44.90	54.00	67.40

Optional Modifications

Part No. — Y — F — T — (Ordering Code) (YKC, APC)

Type D

U-FXFB 0.50 — Y 1.375 — F 1.000 — T 10 — YKC

Optional Modifications	Y Dimension Tolerance	Pilot Added																															
Ordering Code	YKC	APC																															
Details	Changes the Y dimension tolerance to ±0.002. [Example] YKC	Adds a pilot to the bottom of flange. [Example] APC																															
	<table border="1"> <thead> <tr> <th>D</th> <th colspan="3">APC</th> </tr> <tr> <th>D</th> <th>Dia.</th> <th colspan="2">Tolerance</th> </tr> </thead> <tbody> <tr> <td>0.25</td> <td>0.3125</td> <td>0.3123</td> <td>0.3119</td> </tr> <tr> <td>0.38</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> </tr> <tr> <td>0.50</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> </tr> <tr> <td>0.63</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> </tr> <tr> <td>0.75</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> </tr> <tr> <td>1.00</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> </tr> </tbody> </table>		D	APC			D	Dia.	Tolerance		0.25	0.3125	0.3123	0.3119	0.38	0.3750	0.3748	0.3744	0.50	0.3750	0.3748	0.3744	0.63	0.3750	0.3748	0.3744	0.75	0.3750	0.3748	0.3744	1.00	0.3750	0.3748
D	APC																																
D	Dia.	Tolerance																															
0.25	0.3125	0.3123	0.3119																														
0.38	0.3750	0.3748	0.3744																														
0.50	0.3750	0.3748	0.3744																														
0.63	0.3750	0.3748	0.3744																														
0.75	0.3750	0.3748	0.3744																														
1.00	0.3750	0.3748	0.3744																														
\$ Price Adder	4.00	6.00																															

Ⓢ When using Optional Modifications, add the "Price Adder" to the standard "Unit Price".

Related Components

