

# Series **USF**

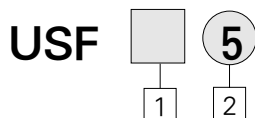
## Floating Joint



Accurate Cylinder Alignment not Required  
 Installation Time Reduced  
 Accurate Machining  
 Compact design Allows High Loading

- SQ
- SP
- SPM
- ST
- SN
- SF
- USF**
- TPC

### How to Order



- 1 Mounting**  
 Blank : Standard  
 F : Flange Type

- 2 Thread Size**  
 1 : 6-40 UNF  
 2 : 10-32 UNF  
 4 : 1/4-28 UNF  
 5 : 5/16-24 UNF  
 6 : 3/8-24 UNF  
 7 : 7/16-20 UNF  
 8 : 6-40 UNF  
 12 : 3/4-16 UNF  
 16 : 1-12 UNF  
 20 : 1 1/4-12 UNF

### Specifications

|                    |                                   |
|--------------------|-----------------------------------|
| Operating Pressure | Air cylinder 140psi(990kPa)       |
|                    | Hydraulic cylinder 498psi(3.5MPa) |
| Mounting           | Standard, Flange type             |

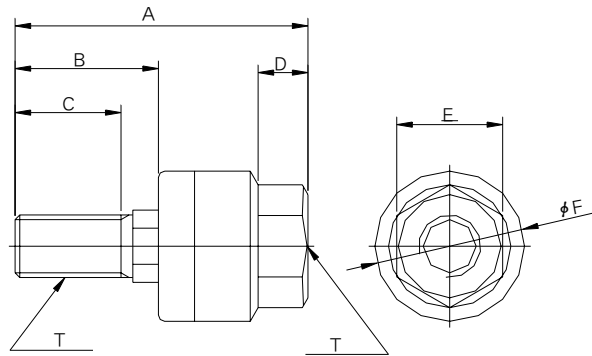
### Model

| Model | Thread      | Working thrust N( kgf) | Angle |
|-------|-------------|------------------------|-------|
| USF1  | 6-40UNC     | 5.4                    | ±5°   |
| USF2  | 10-32UNF    | 12.3                   |       |
| USF4  | 1/4-28UNF   | 110                    |       |
| USF5  | 5/16-24UNF  | 110                    |       |
| USF6  | 3/8-24UNF   | 250                    |       |
| USF7  | 7/16-20UNF  | 600                    |       |
| USF8  | 1/2-20UNF   | 1100                   |       |
| USF12 | 3/4-16UNF   | 1800                   |       |
| USF16 | 1-12UNF     | 2800                   |       |
| USF20 | 1 1/4-12UNF | 5400                   |       |

# Series USF

## Basic Type/Series USF

USF1 ~USF20

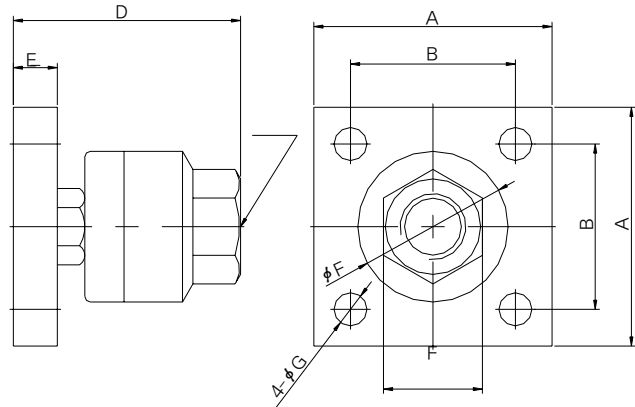
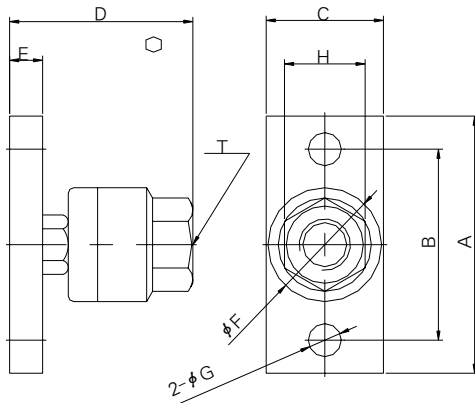


(inch)

| Model | T           | A    | B    | C     | D    | E    | F    |
|-------|-------------|------|------|-------|------|------|------|
| USF1  | 6-40UNC     | 1.02 | 0.45 | 0.35  | 0.22 | 0.28 | 0.47 |
| USF2  | 10-32UNF    | 1.36 | 0.63 | 0.49  | 0.28 | 0.39 | 0.63 |
| USF4  | 1/4-28UNF   | 1.77 | 0.85 | 0.59  | 0.31 | 0.51 | 0.83 |
| USF5  | 5/16-24UNF  | 1.77 | 0.85 | 0.59  | 0.31 | 0.51 | 0.83 |
| USF6  | 3/8-24UNF   | 1.95 | 0.91 | 0.669 | 0.35 | 0.67 | 0.94 |
| USF7  | 7/16-20UNF  | 2.44 | 1.11 | 0.79  | 0.51 | 0.87 | 1.22 |
| USF8  | 1/2-20UNF   | 2.95 | 1.28 | 0.98  | 0.59 | 1.06 | 1.61 |
| USF12 | 3/4-16UNF   | 3.50 | 1.47 | 1.06  | 0.71 | 1.26 | 1.97 |
| USF16 | 1-12UNF     | 4.33 | 1.85 | 1.34  | 0.94 | 1.61 | 2.32 |
| USF20 | 1 1/4-12UNF | 6.02 | 2.36 | 1.65  | 1.50 | 1.81 | 3.11 |

USFF4 ~USFF7

USFF8 ~USFF20



(inch)

| Model | T           | A    | B    | C    | D    | E    | F    | G    | H    |
|-------|-------------|------|------|------|------|------|------|------|------|
| USF4  | 1/4-28UNF   | 1.89 | 1.42 | 0.75 | 1.29 | 0.24 | 0.83 | 0.26 | 0.51 |
| USF5  | 5/16-24UNF  | 1.89 | 1.42 | 0.75 | 1.29 | 0.24 | 0.83 | 0.26 | 0.51 |
| USF6  | 3/8-24UNF   | 2.05 | 1.57 | 0.98 | 1.41 | 0.24 | 0.94 | 0.26 | 0.67 |
| USF7  | 7/16-20UNF  | 2.76 | 2.05 | 1.26 | 1.96 | 0.35 | 1.22 | 0.35 | 0.87 |
| USF8  | 1/2-20UNF   | 2.56 | 1.77 | -    | 2.44 | 0.47 | 1.61 | 0.43 | 1.06 |
| USF12 | 3/4-16UNF   | 2.95 | 2.17 | -    | 3.01 | 0.63 | 1.97 | 0.43 | 1.26 |
| USF16 | 1-12UNF     | 3.54 | 2.56 | -    | 3.70 | 0.75 | 2.74 | 0.71 | 1.61 |
| USF20 | 1 1/4-12UNF | 4.92 | 3.23 | -    | 5.19 | 0.94 | 3.11 | 0.51 | 1.81 |