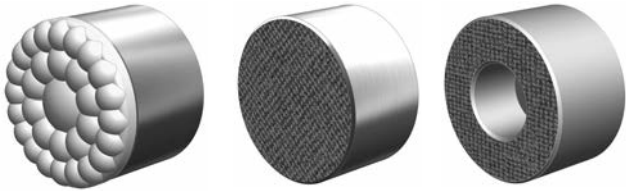




2010 New Products Supplement

■ FIXED GRIPPERS



Sof-Top™ Urethane Surface & Abrasive Diamond Surface

■ REST PADS



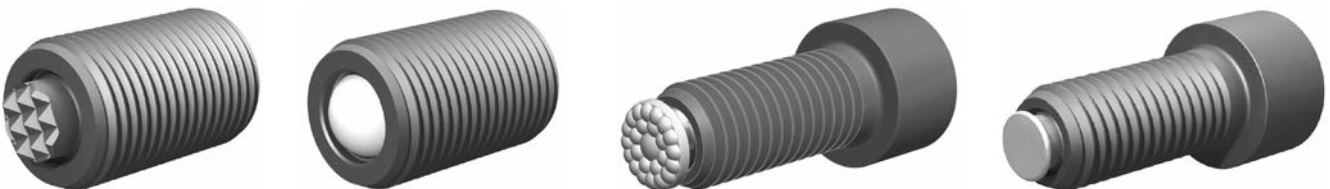
Stainless Steel & Metric Steel and Delrin Counter Bore Styles

■ SWIVOTS



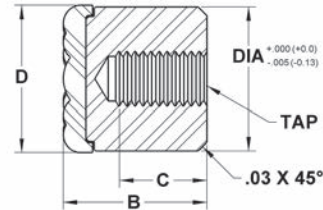
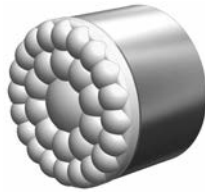
Swivots with Sof-Top™ Urethane Surface, Diamond Abrasive Surface, Stainless & Delrin Cones

■ THRUST SCREWS



Full Line of Thrust Screws

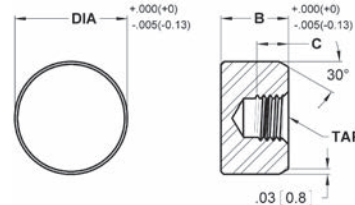
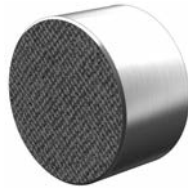
Round Style Stainless Steel – Sof-Top Urethane Surface – Tapped – Inch & Metric



The urethane surface is permanently bonded to a 300 series stainless steel pad. The non-marking, non-staining urethane provides excellent protection against damage on delicate work surfaces. The “bubbled” texture of the urethane top offers firm holding and allows air to escape so no suction is created between the contact surface and the top of the rest pad as it is compressed. Because the top is made of urethane it offers superior abrasion and wear resistance. They are available in three durometers to meet a wide variety of application needs. Blind-hole tap for back side mounting.

INCH					METRIC				
Part #	B Height	C Tap Depth	D Contact Dia.	Durometer	Part #	B Height	C Tap Depth	D Contact Dia.	Durometer
5/16" Dia - #8-32 Tap					8mm Dia – M4x0.7 Tap				
CSRP-305-35UR	1/2	1/4	.315	35	MCSR-082-35UR	12	6	8	35
CSRP-305-60UR	1/2	1/4	.315	60	MCSR-082-60UR	12	6	8	60
CSRP-305-80UR	1/2	1/4	.315	80	MCSR-082-80UR	12	6	8	80
3/8" Dia - #10-32 Tap					10mm Dia - M5x0.8 Tap				
CSRP-405-35UR	1/2	1/4	.394	35	MCSR-102-35UR	12	6	10	35
CSRP-405-60UR	1/2	1/4	.394	60	MCSR-102-60UR	12	6	10	60
CSRP-405-80UR	1/2	1/4	.394	80	MCSR-102-80UR	12	6	10	80
1/2" Dia - #10-32 Tap					12mm Dia - M5x0.8 Tap				
CSRP-53-35UR	1/2	1/4	.512	35	MCSR-122-35UR	12	6	13	35
CSRP-53-60UR	1/2	1/4	.512	60	MCSR-122-60UR	12	6	13	60
CSRP-53-80UR	1/2	1/4	.512	80	MCSR-122-80UR	12	6	13	80
5/8" Dia - 1/4-28 Tap					16mm Dia - M6x1.0 Tap				
CSRP-625-35UR	1/2	1/4	.630	35	MCSR-162-35UR	12	6	16	35
CSRP-625-60UR	1/2	1/4	.630	60	MCSR-162-60UR	12	6	16	60
CSRP-625-80UR	1/2	1/4	.630	80	MCSR-162-80UR	12	6	16	80
3/4" Dia - 1/4-28 Tap					20mm Dia - M6x1.0 Tap				
CSRP-755-35UR	1/2	1/4	.827	35	MCSR-202-35UR	12	6	21	35
CSRP-755-60UR	1/2	1/4	.827	60	MCSR-202-60UR	12	6	21	60
CSRP-755-80UR	1/2	1/4	.827	80	MCSR-202-80UR	12	6	21	80
1" Dia - 1/4-28 Tap					25mm Dia - M6x1.0 Tap				
CSRP-815-35UR	1/2	1/4	1.063	35	MCSR-252-35UR	12	6	27	35
CSRP-815-60UR	1/2	1/4	1.063	60	MCSR-252-60UR	12	6	27	60
CSRP-815-80UR	1/2	1/4	1.063	80	MCSR-252-80UR	12	6	27	80

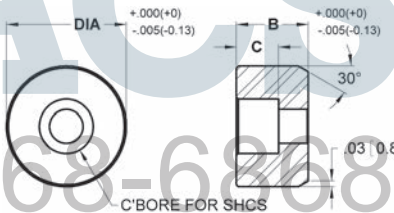
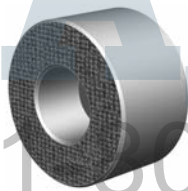
Round Style Stainless Steel – Abrasive Diamond Surface – Tapped – Inch & Metric



The abrasive surface is permanently fused to a stainless steel pad. The surface texture is comparable to a 100 grit abrasive. They are ideal for holding smooth or slippery applications with a minimum of clamping pressure. Individual diamond particles transfer holding pressure to a very small and well distributed area, providing superior holding with minimal surface marking. The diamond surface also provides unparalleled wear resistance. The pad is made from 17-4 stainless steel which provides high strength as well as protection against chemical and environmental corrosion. Heat treated to Rc 43/46. Blind-hole tap for back side mounting.

INCH			METRIC		
Part #	B Height	C Tap Depth	Part #	B Height	C Tap Depth
5/16" Dia - #8-32 Tap			8mm Dia – M4x0.7 Tap		
CSRP-30-DS	3/8	3/16	MCSR-080-DS	10	5
CSRP-305-DS	1/2	5/16	MCSR-082-DS	12	6.4
3/8" Dia - #10-32 Tap			10mm Dia - M5x0.8 Tap		
CSRP-40-DS	3/8	3/16	MCSR-100-DS	10	5
CSRP-405-DS	1/2	5/16	MCSR-102-DS	12	6.4
1/2" Dia - #10-32 Tap			12mm Dia - M5x0.8 Tap		
CSRP-50-DS	3/8	3/16	MCSR-120-DS	10	5
CSRP-53-DS	1/2	5/16	MCSR-122-DS	12	6.4
5/8" Dia - 1/4-28 Tap			16mm Dia - M6x1.0 Tap		
CSRP-62-DS	3/8	3/16	MCSR-160-DS	10	5
CSRP-625-DS	1/2	5/16	MCSR-162-DS	12	6.4
3/4" Dia - 1/4-28 Tap			20mm Dia - M6x1.0 Tap		
CSRP-75-DS	3/8	3/16	MCSR-200-DS	10	5
CSRP-755-DS	1/2	5/16	MCSR-202-DS	12	6.4
1" Dia - 1/4-28 Tap			25mm Dia - M6x1.0 Tap		
CSRP-81-DS	3/8	3/16	MCSR-250-DS	10	5
CSRP-815-DS	1/2	5/16	MCSR-252-DS	12	6.4

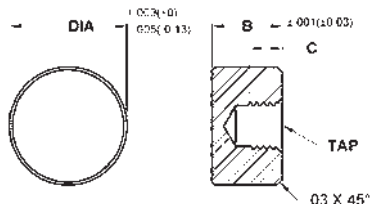
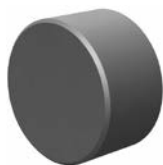
Round Style Stainless Steel – Abrasive Diamond Surface – Counter Bored – Inch & Metric



The abrasive surface is permanently fused to a stainless steel pad. The surface texture is comparable to a 100 grit abrasive. They are ideal for holding smooth or slippery applications with a minimum of clamping pressure. Individual diamond particles transfer holding pressure to a very small and well distributed area, providing superior holding with minimal surface marking. The diamond surface also provides unparalleled wear resistance. The pad is made from 17-4 stainless steel which provides high strength as well as protection against chemical and environmental corrosion. Heat treated to Rc 43/46. Counter bored hole for front mounting with a socket head cap screw.

INCH			METRIC		
Part #	B Height	C C'BoRE Depth	Part #	B Height	C C'BoRE Depth
3/8" Dia - Counter Bored for #6 SHCS			10mm Dia - Counter Bored for M3 SHCS		
CSRP-40-C-DS	3/8	3/16	MCSR-100-C-DS	10	4
CSRP-405-C-DS	1/2	3/16	MCSR-102-C-DS	12	4
1/2" Dia - Counter Bored for #8 SHCS			12mm Dia - Counter Bored for M4 SHCS		
CSRP-50-C-DS	3/8	7/32	MCSR-120-C-DS	10	5.6
CSRP-53-C-DS	1/2	7/32	MCSR-122-C-DS	12	5.6
5/8" Dia - Counter Bored for #8 SHCS			16mm Dia - Counter Bored for M5 SHCS		
CSRP-62-C-DS	3/8	7/32	MCSR-160-C-DS	10	6.6
CSRP-625-C-DS	1/2	7/32	MCSR-162-C-DS	12	6.6
3/4" Dia - Counter Bored for #10 SHCS			20mm Dia - Counter Bored for M6 SHCS		
CSRP-75-C-DS	3/8	1/4	MCSR-200-C-DS	10	7.6
CSRP-755-C-DS	1/2	1/4	MCSR-202-C-DS	12	7.6
1" Dia - Counter Bored for 1/4" SHCS			25mm Dia - Counter Bored for M6 SHCS		
CSRP-81-C-DS	3/8	9/32	MCSR-250-C-DS	10	7.6
CSRP-815-C-DS	1/2	9/32	MCSR-252-C-DS	12	7.6

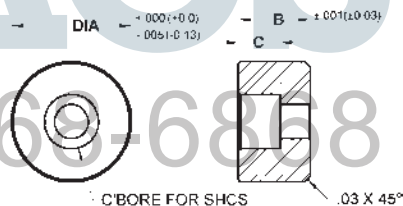
Steel Tapped – Inch & Metric



Made from 8620 steel, carburized and hardened to Rc 58/60 with .050" case. Black oxide finish. Blind-hole tap for back side mounting.

INCH			METRIC		
Part #	B Height	C Tap Depth	Part #	B Height	C Tap Depth
5/16" Dia - #8-32 Tap			8mm Dia - M4x0.7 Tap		
SRP-30	3/8	3/16	MSRP-080	10	5
SRP-305	1/2	5/16	MSRP-082	12	6.4
3/8" Dia - #10-32 Tap			10mm Dia - M5x0.8 Tap		
SRP-40	3/8	3/16	MSRP-100	10	5
SRP-405	1/2	5/16	MSRP-102	12	6.4
1/2" Dia - #10-32 Tap			12mm Dia - M5x0.8 Tap		
SRP-50	3/8	3/16	MSRP-120	10	5
SRP-53	1/2	5/16	MSRP-122	12	6.4
5/8" Dia - 1/4-28 Tap			16mm Dia - M6x1.0 Tap		
SRP-62	3/8	3/16	MSRP-160	10	5
SRP-625	1/2	5/16	MSRP-162	12	6.4
3/4" Dia - 1/4-28 Tap			20mm Dia - M6x1.0 Tap		
SRP-75	3/8	3/16	MSRP-200	10	5
SRP-755	1/2	5/16	MSRP-202	12	6.4
1" Dia - 1/4-28 Tap			25mm Dia - M6x1.0 Tap		
SRP-81	3/8	3/16	MSRP-250	10	5
SRP-815	1/2	5/16	MSRP-252	12	6.4

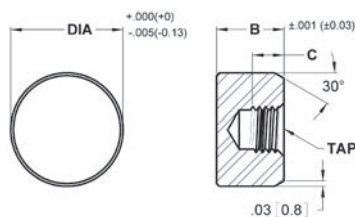
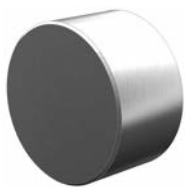
Steel Counter Bored – Inch & Metric



Made from 8620 steel, carburized and hardened to Rc 58/60 with .050" case. Black oxide finish. Counter bored hole for front mounting with a socket head cap screw.

INCH			METRIC		
Part #	B Height	C C'Bore Depth	Part #	B Height	C C'Bore Depth
3/8" Dia - Counter Bored for #6 SHCS			10mm Dia - Counter Bored for M3 SHCS		
SRP-40-C	3/8	3/16	MSRP-100-C	10	4
SRP-405-C	1/2	3/16	MSRP-102-C	12	4
1/2" Dia - Counter Bored for #8 SHCS			12mm Dia - Counter Bored for M4 SHCS		
SRP-50-C	3/8	7/32	MSRP-120-C	10	5.6
SRP-53-C	1/2	7/32	MSRP-122-C	12	5.6
5/8" Dia - Counter Bored for #8 SHCS			16mm Dia - Counter Bored for M5 SHCS		
SRP-62-C	3/8	7/32	MSRP-160-C	10	6.6
SRP-625-C	1/2	7/32	MSRP-162-C	12	6.6
3/4" Dia - Counter Bored for #10 SHCS			20mm Dia - Counter Bored for M6 SHCS		
SRP-75-C	3/8	1/4	MSRP-200-C	10	7.6
SRP-755-C	1/2	1/4	MSRP-202-C	12	7.6
1" Dia - Counter Bored for 1/4" SHCS			25mm Dia - Counter Bored for M6 SHCS		
SRP-81-C	3/8	9/32	MSRP-250-C	10	7.6
SRP-815-C	1/2	9/32	MSRP-252-C	12	7.6

Stainless Steel Tapped – Inch & Metric

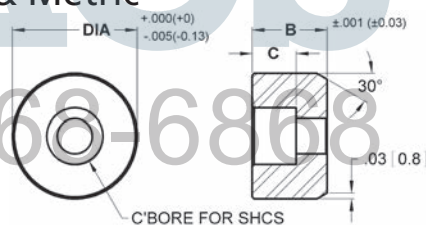


Made from 17-4 stainless steel which provides high strength as well as protection against chemical and environmental corrosion. Heat treated to Rc 43/46. Blind-hole tap for back side mounting.

INCH		
Part #	B Height	C Tap Depth
5/16" Dia - #8-32 Tap		
CSRP-30	3/8	3/16
CSRP-305	1/2	5/16
3/8" Dia - #10-32 Tap		
CSRP-40	3/8	3/16
CSRP-405	1/2	5/16
1/2" Dia - #10-32 Tap		
CSRP-50	3/8	3/16
CSRP-53	1/2	5/16
5/8" Dia - 1/4-28 Tap		
CSRP-62	3/8	3/16
CSRP-625	1/2	5/16
3/4" Dia - 1/4-28 Tap		
CSRP-75	3/8	3/16
CSRP-755	1/2	5/16
1" Dia - 1/4-28 Tap		
CSRP-81	3/8	3/16
CSRP-815	1/2	5/16

METRIC		
Part #	B Height	C Tap Depth
8mm Dia – M4x0.7 Tap		
MCSR-080	10	5
MCSR-082	12	6.4
10mm Dia - M5x0.8 Tap		
MCSR-100	10	5
MCSR-102	12	6.4
12mm Dia - M5x0.8 Tap		
MCSR-120	10	5
MCSR-122	12	6.4
16mm Dia - M6x1.0 Tap		
MCSR-160	10	5
MCSR-162	12	6.4
20mm Dia - M6x1.0 Tap		
MCSR-200	10	5
MCSR-202	12	6.4
25mm Dia - M6x1.0 Tap		
MCSR-250	10	5
MCSR-252	12	6.4

Stainless Steel Counter Bored – Inch & Metric

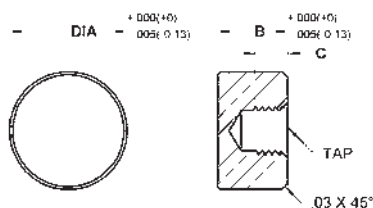


Made from 17-4 stainless steel which provides high strength as well as protection against chemical and environmental corrosion. Heat treated to Rc 43/46. Counter bored hole for front mounting with a socket head cap screw.

INCH		
Part #	B Height	C C'Bore Depth
3/8" Dia - Counter Bored for #6 SHCS		
CSRP-40-C	3/8	3/16
CSRP-405-C	1/2	3/16
1/2" Dia - Counter Bored for #8 SHCS		
CSRP-50-C	3/8	7/32
CSRP-53-C	1/2	7/32
5/8" Dia - Counter Bored for #8 SHCS		
CSRP-62-C	3/8	7/32
CSRP-625-C	1/2	7/32
3/4" Dia - Counter Bored for #10 SHCS		
CSRP-75-C	3/8	1/4
CSRP-755-C	1/2	1/4
1" Dia - Counter Bored for 1/4" SHCS		
CSRP-81-C	3/8	9/32
CSRP-815-C	1/2	9/32

METRIC		
Part #	B Height	C C'Bore Depth
10mm Dia - Counter Bored for M3 SHCS		
MCSR-100-C	10	4
MCSR-102-C	12	4
12mm Dia - Counter Bored for M4 SHCS		
MCSR-120-C	10	5.6
MCSR-122-C	12	5.6
16mm Dia - Counter Bored for M5 SHCS		
MCSR-160-C	10	6.6
MCSR-162-C	12	6.6
20mm Dia - Counter Bored for M6 SHCS		
MCSR-200-C	10	7.6
MCSR-202-C	12	7.6
25mm Dia - Counter Bored for M6 SHCS		
MCSR-250-C	10	7.6
MCSR-252-C	12	7.6

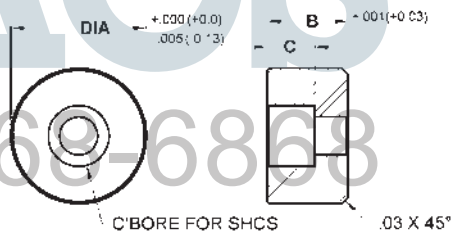
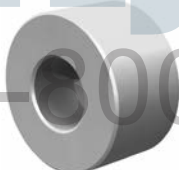
Delrin Tapped – Inch & Metric



Made from white Delrin. Non-marring and non-absorbing. Blind-hole tap for back side mounting.

INCH			METRIC		
Part #	B Height	C Tap Depth	Part #	B Height	C Tap Depth
5/16" Dia - #8-32 Tap			8mm Dia - M4x0.7 Tap		
DRP-30	3/8	3/16	MDRP-080	10	5
DRP-305	1/2	5/16	MDRP-082	12	6.4
3/8" Dia - #10-32 Tap			10mm Dia - M5x0.8 Tap		
DRP-40	3/8	3/16	MDRP-100	10	5
DRP-405	1/2	5/16	MDRP-102	12	6.4
1/2" Dia - #10-32 Tap			12mm Dia - M5x0.8 Tap		
DRP-50	3/8	3/16	MDRP-120	10	5
DRP-53	1/2	5/16	MDRP-122	12	6.4
5/8" Dia - 1/4-28 Tap			16mm Dia - M6x1.0 Tap		
DRP-62	3/8	3/16	MDRP-160	10	5
DRP-625	1/2	5/16	MDRP-162	12	6.4
3/4" Dia - 1/4-28 Tap			20mm Dia - M6x1.0 Tap		
DRP-75	3/8	3/16	MDRP-200	10	5
DRP-755	1/2	5/16	MDRP-202	12	6.4
1" Dia - 1/4-28 Tap			25mm Dia - M6x1.0 Tap		
DRP-81	3/8	3/16	MDRP-250	10	5
DRP-815	1/2	5/16	MDRP-252	12	6.4

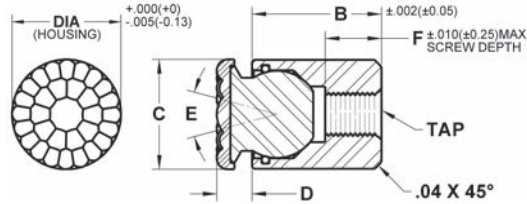
Delrin Counter Bored – Inch & Metric



Made from white Delrin. Non-marring and non-absorbing. Counter bored hole for front mounting with a socket head cap screw.

INCH			METRIC		
Part #	B Height	C C'Bore Depth	Part #	B Height	C C'Bore Depth
3/8" Dia - Counter Bored for #6 SHCS			10mm Dia - Counter Bored for M3 SHCS		
DRP-40-C	3/8	3/16	MDRP-100-C	10	4
DRP-405-C	1/2	3/16	MDRP-102-C	12	4
1/2" Dia - Counter Bored for #8 SHCS			12mm Dia - Counter Bored for M4 SHCS		
DRP-50-C	3/8	7/32	MDRP-120-C	10	5.6
DRP-53-C	1/2	7/32	MDRP-122-C	12	5.6
5/8" Dia - Counter Bored for #8 SHCS			16mm Dia - Counter Bored for M5 SHCS		
DRP-62-C	3/8	7/32	MDRP-160-C	10	6.6
DRP-625-C	1/2	7/32	MDRP-162-C	12	6.6
3/4" Dia - Counter Bored for #10 SHCS			20mm Dia - Counter Bored for M6 SHCS		
DRP-75-C	3/8	1/4	MDRP-200-C	10	7.6
DRP-755-C	1/2	1/4	MDRP-202-C	12	7.6
1" Dia - Counter Bored for 1/4" SHCS			25mm Dia - Counter Bored for M6 SHCS		
DRP-81-C	3/8	9/32	MDRP-250-C	10	7.6
DRP-815-C	1/2	9/32	MDRP-252-C	12	7.6

Base Design Stainless Ball – Sof-Top Urethane Surface – Inch & Metric

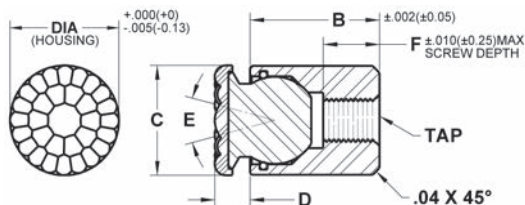


Cylindrical body allows for installation in tight areas. The housing is tapped for backside fastening. The replaceable ball swivels to allow for self-alignment on uneven surfaces. A Viton O-ring holds the ball in place while keeping contaminants out and providing smooth ball movement. The housing is made from alloy steel, heat treated to Rc 43/46 with black oxide finish. The urethane surface is permanently bonded to a 300 series stainless steel ball. The non-marking, non-staining urethane provides excellent protection against damage on delicate work surfaces. The “bubbled” texture of the urethane top offers firm holding and allows air to escape so no suction is created between the contact surface and the top of the rest pad as it is compressed. Because the top is made of urethane it offers superior abrasion and wear resistance. They are available in three durometers to meet a wide variety of application needs. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Thread Depth	Ball Dia.	Durometer	Ball Only Part #
3/8" Dia - #4-40 Tap								
BBU-100-FC-35UR	5/16	.315	.143	28	1/4	3/16	35	BUB-187-FC-35UR
BBU-100-FC-60UR	5/16	.315	.143	28	1/4	3/16	60	BUB-187-FC-60UR
BBU-100-FC-80UR	5/16	.315	.143	28	1/4	3/16	80	BUB-187-FC-80UR
BBU-105-FC-35UR	7/16	.315	.143	28	5/16	3/16	35	BUB-187-FC-35UR
BBU-105-FC-60UR	7/16	.315	.143	28	5/16	3/16	60	BUB-187-FC-60UR
BBU-105-FC-80UR	7/16	.315	.143	28	5/16	3/16	80	BUB-187-FC-80UR
BBU-107-FC-35UR	11/16	.315	.143	28	5/16	3/16	35	BUB-187-FC-35UR
BBU-107-FC-60UR	11/16	.315	.143	28	5/16	3/16	60	BUB-187-FC-60UR
BBU-107-FC-80UR	11/16	.315	.143	28	5/16	3/16	80	BUB-187-FC-80UR
7/16" Dia - #8-32 Tap								
BBU-200-FC-35UR	3/8	.394	.174	28	5/32	9/32	35	BUB-200-FC-35UR
BBU-200-FC-60UR	3/8	.394	.174	28	5/32	9/32	60	BUB-200-FC-60UR
BBU-200-FC-80UR	3/8	.394	.174	28	5/32	9/32	80	BUB-200-FC-80UR
BBU-201-FC-35UR	15/16	.394	.174	28	1/2	9/32	35	BUB-200-FC-35UR
BBU-201-FC-60UR	15/16	.394	.174	28	1/2	9/32	60	BUB-200-FC-60UR
BBU-201-FC-80UR	15/16	.394	.174	28	1/2	9/32	80	BUB-200-FC-80UR
1/2" Dia - #10-32 Tap								
BBU-300-FC-35UR	1/2	.512	.205	28	5/32	3/8	35	BUB-300-FC-35UR
BBU-300-FC-60UR	1/2	.512	.205	28	5/32	3/8	60	BUB-300-FC-60UR
BBU-300-FC-80UR	1/2	.512	.205	28	5/32	3/8	80	BUB-300-FC-80UR
BBU-301-FC-35UR	1	.512	.205	28	5/8	3/8	35	BUB-300-FC-35UR
BBU-301-FC-60UR	1	.512	.205	28	5/8	3/8	60	BUB-300-FC-60UR
BBU-301-FC-80UR	1	.512	.205	28	5/8	3/8	80	BUB-300-FC-80UR
5/8" Dia - 1/4-28 Tap								
BBU-500-FC-35UR	3/4	.630	.205	28	1/4	1/2	35	BUB-500-FC-35UR
BBU-500-FC-60UR	3/4	.630	.205	28	1/4	1/2	60	BUB-500-FC-60UR
BBU-500-FC-80UR	3/4	.630	.205	28	1/4	1/2	80	BUB-500-FC-80UR
13/16" Dia - 5/16-24 Tap								
BBU-600-FC-35UR	7/8	.827	.236	32	11/32	5/8	35	BUB-600-FC-35UR
BBU-600-FC-60UR	7/8	.827	.236	32	11/32	5/8	60	BUB-600-FC-60UR
BBU-600-FC-80UR	7/8	.827	.236	32	11/32	5/8	80	BUB-600-FC-80UR
15/16" Dia - 3/8-24 Tap								
BBU-700-FC-35UR	7/8	.906	.236	32	9/32	3/4	35	BUB-700-FC-35UR
BBU-700-FC-60UR	7/8	.906	.236	32	9/32	3/4	60	BUB-700-FC-60UR
BBU-700-FC-80UR	7/8	.906	.236	32	9/32	3/4	80	BUB-700-FC-80UR

Base Design Stainless Ball – Sof-Top Urethane Surface – Inch & Metric (continued)

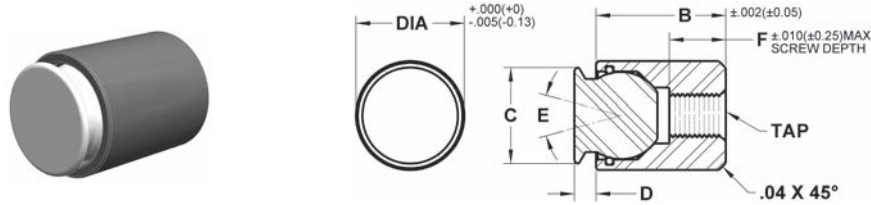


METRIC

Part #	B Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Thread Depth	Ball Dia.	Durometer	Ball Only Part #
10mm Dia - M4x0.7 Tap								
MBBU-1012-FC-35UR	10.5	10	4	28	3.5	7	35	MBUB-070-FC-35UR
MBBU-1012-FC-60UR	10.5	10	4	28	3.5	7	60	MBUB-070-FC-60UR
MBBU-1012-FC-80UR	10.5	10	4	28	3.5	7	80	MBUB-070-FC-80UR
MBBU-1025-FC-35UR	23.5	10	4	28	9	7	35	MBUB-070-FC-35UR
MBBU-1025-FC-60UR	23.5	10	4	28	9	7	60	MBUB-070-FC-60UR
MBBU-1025-FC-80UR	23.5	10	4	28	9	7	80	MBUB-070-FC-80UR
13mm Dia - M5x0.8 Tap								
MBBU-1316-FC-35UR	14.5	13	5	28	6.5	10	35	MBUB-100-FC-35UR
MBBU-1316-FC-60UR	14.5	13	5	28	6.5	10	60	MBUB-100-FC-60UR
MBBU-1316-FC-80UR	14.5	13	5	28	6.5	10	80	MBUB-100-FC-80UR
MBBU-1325-FC-35UR	23.5	13	5	28	9	10	35	MBUB-100-FC-35UR
MBBU-1325-FC-60UR	23.5	13	5	28	9	10	60	MBUB-100-FC-60UR
MBBU-1325-FC-80UR	23.5	13	5	28	9	10	80	MBUB-100-FC-80UR
17mm Dia - M6x1.0 Tap								
MBBU-1722-FC-35UR	18	16	5	28	7.5	13	35	MBUB-130-FC-35UR
MBBU-1722-FC-60UR	18	16	5	28	7.5	13	60	MBUB-130-FC-60UR
MBBU-1722-FC-80UR	18	16	5	28	7.5	13	80	MBUB-130-FC-80UR
19mm Dia - M8x1.25 Tap								
MBBU-1924-FC-35UR	20	21	6	24	8.5	15	35	MBUB-150-FC-35UR
MBBU-1924-FC-60UR	20	21	6	24	8.5	15	60	MBUB-150-FC-60UR
MBBU-1924-FC-80UR	20	21	6	24	8.5	15	80	MBUB-150-FC-80UR
24mm Dia - M10x1.50 Tap								
MBBU-2428-FC-35UR	24	23	6	24	9	20	35	MBUB-200-FC-35UR
MBBU-2428-FC-60UR	24	23	6	24	9	20	60	MBUB-200-FC-60UR
MBBU-2428-FC-80UR	24	23	6	24	9	20	80	MBUB-200-FC-80UR

1-800-968-6868

Base Design Delrin Ball – Flat Cone – Inch & Metric



Cylindrical body allows for installation in tight areas. The housing is tapped for backside fastening. The replaceable ball swivels to allow for self-alignment on uneven surfaces and is made from non-marring white delrin. The flat cone design provides a large contact surface for greater force distribution. A Viton O-ring holds the ball in place while keeping contaminants out and providing smooth ball movement. The housing is made from alloy steel, heat treated to Rc 43/46 with black oxide finish. Replacement balls and O-rings can be ordered separately.

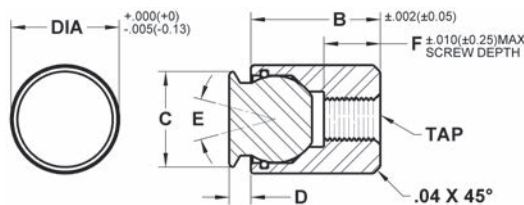
INCH

Part #	B Length	C Contact Dia	D Stand Off	E Degree Swivel	F Thread Depth	Ball Dia.	Ball Only Part #
3/8" Dia - #4-40 Tap							
BBU-100-DC	5/16	.236	.063	28	1/4	3/16	BUB-187-DC
BBU-105-DC	7/16	.236	.063	28	5/16	3/16	BUB-187-DC
BBU-107-DC	11/16	.236	.063	28	5/16	3/16	BUB-187-DC
7/16" Dia - #8-32 Tap							
BBU-200-DC	3/8	.315	.094	28	5/32	9/32	BUB-200-DC
BBU-201-DC	15/16	.315	.094	28	1/2	9/32	BUB-200-DC
1/2" Dia - #10-32 Tap							
BBU-300-DC	1/2	.433	.125	28	5/32	3/8	BUB-300-DC
BBU-301-DC	1	.433	.125	28	5/8	3/8	BUB-300-DC
5/8" Dia - 1/4-28 Tap							
BBU-500-DC	3/4	.551	.125	28	1/4	1/2	BUB-500-DC
13/16" Dia - 5/16-24 Tap							
BBU-600-DC	7/8	.748	.156	32	11/32	5/8	BUB-600-DC
15/16" Dia - 3/8-24 Tap							
BBU-700-DC	7/8	.827	.156	32	9/32	3/4	BUB-700-DC

METRIC

Part #	B Length	C Contact Dia	D Stand Off	E Degree Swivel	F Thread Depth	Ball Dia.	Ball Only Part #
10mm Dia - M4x0.7 Tap							
MBBU-1012-DC	10.5	8	2	28	3.5	7	MBUB-070-DC
MBBU-1025-DC	23.5	8	2	28	9	7	MBUB-070-DC
13mm Dia - M5x0.8 Tap							
MBBU-1316-DC	14.5	11	3	28	6.5	10	MBUB-100-DC
MBBU-1325-DC	23.5	11	3	28	9	10	MBUB-100-DC
17mm Dia - M6x1.0 Tap							
MBBU-1722-DC	18	14	3	28	7.5	13	MBUB-130-DC
19mm Dia - M8x1.25 Tap							
MBBU-1924-DC	20	19	4	24	8.5	15	MBUB-150-DC
24mm Dia - M10x1.5 Tap							
MBBU-2428-DC	24	21	4	24	9	20	MBUB-200-DC

Base Design Stainless Ball – Flat Cone – Inch & Metric



Cylindrical body allows for installation in tight areas. The housing is tapped for backside fastening. The replaceable ball is made from 300 series stainless steel and swivels to allow for self-alignment on uneven surfaces. The flat cone design provides a large contact surface for greater force distribution. A Viton O-ring holds the ball in place while keeping contaminants out and providing smooth ball movement. The housing is made from alloy steel, heat treated to Rc 43/46 with black oxide finish. Replacement balls and O-rings can be ordered separately.

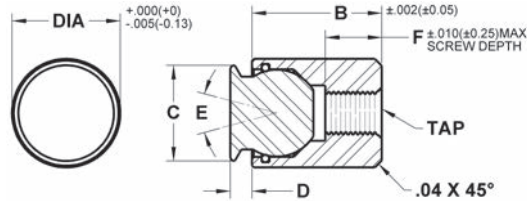
INCH

Part #	B Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Thread Depth	Ball Dia.	Ball Only Part #	Load Rating Lbs.
3/8" Dia - #4-40 Tap								
BBU-100-FC	5/16	.236	.063	28	1/4	3/16	BUB-187-FC	1,835
BBU-105-FC	7/16	.236	.063	28	5/16	3/16	BUB-187-FC	1,835
BBU-107-FC	11/16	.236	.063	28	5/16	3/16	BUB-187-FC	1,835
7/16" Dia - #8-32 Tap								
BBU-200-FC	3/8	.315	.094	28	5/32	9/32	BUB-200-FC	3,339
BBU-201-FC	15/16	.315	.094	28	1/2	9/32	BUB-200-FC	3,339
1/2" Dia - #10-32 Tap								
BBU-300-FC	1/2	.433	.125	28	5/32	3/8	BUB-300-FC	4,697
BBU-301-FC	1	.433	.125	28	5/8	3/8	BUB-300-FC	4,697
5/8" Dia - 1/4-28 Tap								
BBU-500-FC	3/4	.551	.125	28	1/4	1/2	BUB-500-FC	5,849
13/16" Dia - 5/16-24 Tap								
BBU-600-FC	7/8	.748	.156	32	11/32	5/8	BUB-600-FC	10,925
15/16" Dia - 3/8-24 Tap								
BBU-700-FC	7/8	.827	.156	32	9/32	3/4	BUB-700-FC	13,325

METRIC

Part #	B Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Thread Depth	Ball Dia.	Ball Only Part #	Load Rating Lbs.
10mm Dia - M4x0.7 Tap								
MBBU-1012-FC	10.5	8	2	28	3.5	7	MBUB-070-FC	2,585
MBBU-1025-FC	23.5	8	2	28	9	7	MBUB-070-FC	2,585
13mm Dia - M5x0.8 Tap								
MBBU-1316-FC	14.5	11	3	28	6.5	10	MBUB-100-FC	4,452
MBBU-1325-FC	23.5	11	3	28	9	10	MBUB-100-FC	4,452
17mm Dia - M6x1.0 Tap								
MBBU-1722-FC	18	14	3	28	7.5	13	MBUB-130-FC	6,170
19mm Dia - M8x1.25 Tap								
MBBU-1924-FC	20	19	4	24	8.5	15	MBUB-150-FC	8,688
24mm Dia - M10x1.5 Tap								
MBBU-2428-FC	24	21	4	24	9	20	MBUB-200-FC	13,117

Base Design Stainless Ball – Abrasive Diamond Surface – Inch & Metric



Cylindrical body allows for installation in tight areas. The housing is tapped for backside fastening. The replaceable ball swivels to allow for self-alignment on uneven surfaces. A Viton O-ring holds the ball in place while keeping contaminants out and providing smooth ball movement. The housing is made from alloy steel, heat treated to Rc 43/46 with black oxide finish. The abrasive surface is permanently fused to a 300 series stainless steel pad. The surface texture is comparable to a 100 grit abrasive. They are ideal for holding smooth or slippery applications with a minimum of clamping pressure. Individual diamond particles transfer holding pressure to a very small and well distributed area, providing superior holding with minimal surface marking. The diamond surface provides unparalleled wear resistance. Replacement balls and O-rings can be ordered separately.

INCH

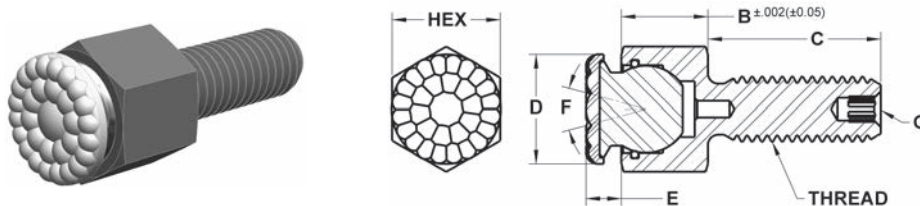
Part #	B Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Thread Depth	Ball Dia.	Ball Only Part #	Load Rating Lbs.
3/8 Dia - #4-40 Tap								
BBU-100-FC-DS	5/16	.236	.063	28	1/4	3/16	BUB-187-FC-DS	1,835
BBU-105-FC-DS	7/16	.236	.063	28	5/16	3/16	BUB-187-FC-DS	1,835
BBU-107-FC-DS	11/16	.236	.063	28	5/16	3/16	BUB-187-FC-DS	1,835
7/16 Dia - #8-32 Tap								
BBU-200-FC-DS	3/8	.315	.094	28	5/32	9/32	BUB-200-FC-DS	3,339
BBU-201-FC-DS	15/16	.315	.094	28	1/2	9/32	BUB-200-FC-DS	3,339
1/2 Dia - #10-32 Tap								
BBU-300-FC-DS	1/2	.433	.125	28	5/32	3/8	BUB-300-FC-DS	4,697
BBU-301-FC-DS	1	.433	.125	28	5/8	3/8	BUB-300-FC-DS	4,697
5/8 Dia - 1/4-28 Tap								
BBU-500-FC-DS	3/4	.551	.125	28	1/4	1/2	BUB-500-FC-DS	5,849
13/16 Dia - 5/16-24 Tap								
BBU-600-FC-DS	7/8	.748	.156	32	11/32	5/8	BUB-600-FC-DS	10,925
15/16 Dia - 3/8-24 Tap								
BBU-700-FC-DS	7/8	.827	.156	32	9/32	3/4	BUB-700-FC-DS	13,325

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METRIC

Part #	B Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Thread Depth	Ball Dia.	Ball Only Part #	Load Rating Lbs.
10mm Dia - M4x0.7 Tap								
MBBU-1012-FC-DS	10.5	8	2	28	3.5	7	MBUB-070-FC-DS	2,585
MBBU-1025-FC-DS	23.5	8	2	28	9	7	MBUB-070-FC-DS	2,585
13mm Dia - M5x0.8 Tap								
MBBU-1316-FC-DS	14.5	11	3	28	6.5	10	MBUB-100-FC-DS	4,452
MBBU-1325-FC-DS	23.5	11	3	28	9	10	MBUB-100-FC-DS	4,452
17mm Dia - M6x1.0 Tap								
MBBU-1722-FC-DS	18	14	3	28	7.5	13	MBUB-130-FC-DS	6,170
19mm Dia - M8x1.25 Tap								
MBBU-1924-FC-DS	20	19	4	24	8.5	15	MBUB-150-FC-DS	8,688
24mm Dia - M10x1.5 Tap								
MBBU-2428-FC-DS	24	21	4	24	9	20	MBUB-200-FC-DS	13,117

Hex Head Stainless Ball – Sof-Top Urethane Surface – Inch & Metric

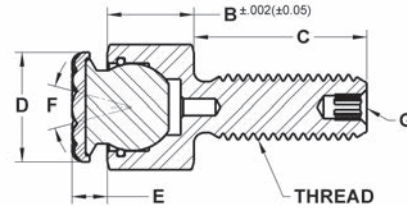
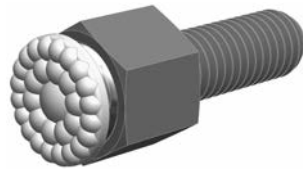


The replaceable ball swivels to allow for self-alignment on uneven surfaces. A Viton O-ring holds the ball in place while keeping contaminants out and providing smooth ball movement. The housing is made from alloy steel, heat treated to Rc 43/46 with black oxide finish. The urethane surface is permanently bonded to a 300 series stainless steel ball. The non-marking, non-staining urethane provides excellent protection against damage on delicate work surfaces. The "bubbled" texture of the urethane top offers firm holding and allows air to escape so no suction is created between the contact surface and the top of the rest pad as it is compressed. Because the top is made of urethane it offers superior abrasion and wear resistance. They are available in three durometers to meet a wide variety of application needs. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Head Height	C Thread Length	D Contact Dia.	E Stand Off	F Degree Swivel	G Int. Hex	Ball Dia.	Durometer	Ball Only Part #
10-24 Threads - 3/8" Hex Head									
BUH-0124-FC-35UR	1/4	1/2	.315	.143	28	—	3/16	35	BUB-187-FC-35UR
BUH-0124-FC-60UR	1/4	1/2	.315	.143	28	—	3/16	60	BUB-187-FC-60UR
BUH-0124-FC-80UR	1/4	1/2	.315	.143	28	—	3/16	80	BUB-187-FC-80UR
BUH-0124 X 1-FC-35UR	1/4	1	.315	.143	28	—	3/16	35	BUB-187-FC-35UR
BUH-0124 X 1-FC-60UR	1/4	1	.315	.143	28	—	3/16	60	BUB-187-FC-60UR
BUH-0124 X 1-FC-80UR	1/4	1	.315	.143	28	—	3/16	80	BUB-187-FC-80UR
10-32 Threads - 3/8" Hex Head									
BUH-0132-FC-35UR	1/4	1/2	.315	.143	28	—	3/16	35	BUB-187-FC-35UR
BUH-0132-FC-60UR	1/4	1/2	.315	.143	28	—	3/16	60	BUB-187-FC-60UR
BUH-0132-FC-80UR	1/4	1/2	.315	.143	28	—	3/16	80	BUB-187-FC-80UR
BUH-0132 X 1-FC-35UR	1/4	1	.315	.143	28	—	3/16	35	BUB-187-FC-35UR
BUH-0132 X 1-FC-60UR	1/4	1	.315	.143	28	—	3/16	60	BUB-187-FC-60UR
BUH-0132 X 1-FC-80UR	1/4	1	.315	.143	28	—	3/16	80	BUB-187-FC-80UR
1/4-20 Threads - 7/16" Hex Head									
BUH-0250-FC-35UR	5/16	1/2	.394	.174	28	—	9/32	35	BUB-200-FC-35UR
BUH-0250-FC-60UR	5/16	1/2	.394	.174	28	—	9/32	60	BUB-200-FC-60UR
BUH-0250-FC-80UR	5/16	1/2	.394	.174	28	—	9/32	80	BUB-200-FC-80UR
BUH-0251-FC-35UR	5/16	1	.394	.174	28	—	9/32	35	BUB-200-FC-35UR
BUH-0251-FC-60UR	5/16	1	.394	.174	28	—	9/32	60	BUB-200-FC-60UR
BUH-0251-FC-80UR	5/16	1	.394	.174	28	—	9/32	80	BUB-200-FC-80UR
BUH-0251 X 1.5-FC-35UR	5/16	1-1/2	.394	.174	28	—	9/32	35	BUB-200-FC-35UR
BUH-0251 X 1.5-FC-60UR	5/16	1-1/2	.394	.174	28	—	9/32	60	BUB-200-FC-60UR
BUH-0251 X 1.5-FC-80UR	5/16	1-1/2	.394	.174	28	—	9/32	80	BUB-200-FC-80UR
1/4-28 Threads - 7/16" Hex Head									
BUH-0280-FC-35UR	5/16	1/2	.394	.174	28	—	9/32	35	BUB-200-FC-35UR
BUH-0280-FC-60UR	5/16	1/2	.394	.174	28	—	9/32	60	BUB-200-FC-60UR
BUH-0280-FC-80UR	5/16	1/2	.394	.174	28	—	9/32	80	BUB-200-FC-80UR
BUH-0281-FC-35UR	5/16	1	.394	.174	28	—	9/32	35	BUB-200-FC-35UR
BUH-0281-FC-60UR	5/16	1	.394	.174	28	—	9/32	60	BUB-200-FC-60UR
BUH-0281-FC-80UR	5/16	1	.394	.174	28	—	9/32	80	BUB-200-FC-80UR
BUH-0281 X 1.5-FC-35UR	5/16	1-1/2	.394	.174	28	—	9/32	35	BUB-200-FC-35UR
BUH-0281 X 1.5-FC-60UR	5/16	1-1/2	.394	.174	28	—	9/32	60	BUB-200-FC-60UR
BUH-0281 X 1.5-FC-80UR	5/16	1-1/2	.394	.174	28	—	9/32	80	BUB-200-FC-80UR
5/16-18 Threads - 1/2" Hex Head									
BUH-0310-FC-35UR	3/8	1/2	.512	.205	28	—	3/8	35	BUB-300-FC-35UR
BUH-0310-FC-60UR	3/8	1/2	.512	.205	28	—	3/8	60	BUB-300-FC-60UR
BUH-0310-FC-80UR	3/8	1/2	.512	.205	28	—	3/8	80	BUB-300-FC-80UR
BUH-0312-FC-35UR	3/8	1	.512	.205	28	—	3/8	35	BUB-300-FC-35UR
BUH-0312-FC-60UR	3/8	1	.512	.205	28	—	3/8	60	BUB-300-FC-60UR
BUH-0312-FC-80UR	3/8	1	.512	.205	28	—	3/8	80	BUB-300-FC-80UR
BUH-0312 X 1.5-FC-35UR	3/8	1-1/2	.512	.205	28	—	3/8	35	BUB-300-FC-35UR
BUH-0312 X 1.5-FC-60UR	3/8	1-1/2	.512	.205	28	—	3/8	60	BUB-300-FC-60UR
BUH-0312 X 1.5-FC-80UR	3/8	1-1/2	.512	.205	28	—	3/8	80	BUB-300-FC-80UR

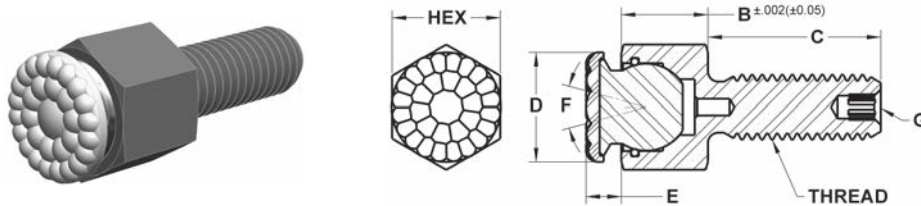
Hex Head Stainless Ball – Sof-Top Urethane Surface – Inch & Metric (continued)



INCH (CONTINUED)

Part #	B Head Height	C Thread Length	D Contact Dia.	E Stand Off	F Degree Swivel	G Int. Hex	Ball Dia.	Durometer	Ball Only Part #
5/16-24 Threads - 1/2" Hex Head									
BUH-0320-FC-35UR	3/8	1/2	.512	.205	28	—	3/8	35	BUB-300-FC-35UR
BUH-0320-FC-60UR	3/8	1/2	.512	.205	28	—	3/8	60	BUB-300-FC-60UR
BUH-0320-FC-80UR	3/8	1/2	.512	.205	28	—	3/8	80	BUB-300-FC-80UR
BUH-0321-FC-35UR	3/8	1	.512	.205	28	—	3/8	35	BUB-300-FC-35UR
BUH-0321-FC-60UR	3/8	1	.512	.205	28	—	3/8	60	BUB-300-FC-60UR
BUH-0321-FC-80UR	3/8	1	.512	.205	28	—	3/8	80	BUB-300-FC-80UR
BUH-0321 X 1.5-FC-35UR	3/8	1-1/2	.512	.205	28	—	3/8	35	BUB-300-FC-35UR
BUH-0321 X 1.5-FC-60UR	3/8	1-1/2	.512	.205	28	—	3/8	60	BUB-300-FC-60UR
BUH-0321 X 1.5-FC-80UR	3/8	1-1/2	.512	.205	28	—	3/8	80	BUB-300-FC-80UR
3/8-16 Threads - 5/8" Hex Head									
BUH-0370-FC-35UR	1/2	1/2	.630	.205	28	1/8	1/2	35	BUB-500-FC-35UR
BUH-0370-FC-60UR	1/2	1/2	.630	.205	28	1/8	1/2	60	BUB-500-FC-60UR
BUH-0370-FC-80UR	1/2	1/2	.630	.205	28	1/8	1/2	80	BUB-500-FC-80UR
BUH-0375-FC-35UR	1/2	1	.630	.205	28	1/8	1/2	35	BUB-500-FC-35UR
BUH-0375-FC-60UR	1/2	1	.630	.205	28	1/8	1/2	60	BUB-500-FC-60UR
BUH-0375-FC-80UR	1/2	1	.630	.205	28	1/8	1/2	80	BUB-500-FC-80UR
BUH-0375 X 1.5-FC-35UR	1/2	1-1/2	.630	.205	28	1/8	1/2	35	BUB-500-FC-35UR
BUH-0375 X 1.5-FC-60UR	1/2	1-1/2	.630	.205	28	1/8	1/2	60	BUB-500-FC-60UR
BUH-0375 X 1.5-FC-80UR	1/2	1-1/2	.630	.205	28	1/8	1/2	80	BUB-500-FC-80UR
3/8-24 Threads - 5/8" Hex Head									
BUH-0230-FC-35UR	1/2	1/2	.630	.205	28	1/8	1/2	35	BUB-500-FC-35UR
BUH-0230-FC-60UR	1/2	1/2	.630	.205	28	1/8	1/2	60	BUB-500-FC-60UR
BUH-0230-FC-80UR	1/2	1/2	.630	.205	28	1/8	1/2	80	BUB-500-FC-80UR
BUH-0231-FC-35UR	1/2	1	.630	.205	28	1/8	1/2	35	BUB-500-FC-35UR
BUH-0231-FC-60UR	1/2	1	.630	.205	28	1/8	1/2	60	BUB-500-FC-60UR
BUH-0231-FC-80UR	1/2	1	.630	.205	28	1/8	1/2	80	BUB-500-FC-80UR
BUH-0231 X 1.5-FC-35UR	1/2	1-1/2	.630	.205	28	1/8	1/2	35	BUB-500-FC-35UR
BUH-0231 X 1.5-FC-60UR	1/2	1-1/2	.630	.205	28	1/8	1/2	60	BUB-500-FC-60UR
BUH-0231 X 1.5-FC-80UR	1/2	1-1/2	.630	.205	28	1/8	1/2	80	BUB-500-FC-80UR
1/2-13 Threads - 13/16" Hex Head									
BUH-0510-FC-35UR	5/8	1	.827	.236	33	3/16	5/8	35	BUB-600-FC-35UR
BUH-0510-FC-60UR	5/8	1	.827	.236	33	3/16	5/8	60	BUB-600-FC-60UR
BUH-0510-FC-80UR	5/8	1	.827	.236	33	3/16	5/8	80	BUB-600-FC-80UR
BUH-0515-FC-35UR	5/8	1-1/2	.827	.236	33	3/16	5/8	35	BUB-600-FC-35UR
BUH-0515-FC-60UR	5/8	1-1/2	.827	.236	33	3/16	5/8	60	BUB-600-FC-60UR
BUH-0515-FC-80UR	5/8	1-1/2	.827	.236	33	3/16	5/8	80	BUB-600-FC-80UR
1/2-20 Threads - 13/16" Hex Head									
BUH-0240-FC-35UR	5/8	1	.827	.236	33	3/16	5/8	35	BUB-600-FC-35UR
BUH-0240-FC-60UR	5/8	1	.827	.236	33	3/16	5/8	60	BUB-600-FC-60UR
BUH-0240-FC-80UR	5/8	1	.827	.236	33	3/16	5/8	80	BUB-600-FC-80UR
BUH-0500-FC-35UR	5/8	1-1/2	.827	.236	33	3/16	5/8	35	BUB-600-FC-35UR
BUH-0500-FC-60UR	5/8	1-1/2	.827	.236	33	3/16	5/8	60	BUB-600-FC-60UR
BUH-0500-FC-80UR	5/8	1-1/2	.827	.236	33	3/16	5/8	80	BUB-600-FC-80UR
5/8-11 Threads - 15/16" Hex Head									
BUH-0625-FC-35UR	11/16	1	.906	.236	33	1/4	3/4	35	BUB-700-FC-35UR
BUH-0625-FC-60UR	11/16	1	.906	.236	33	1/4	3/4	60	BUB-700-FC-60UR
BUH-0625-FC-80UR	11/16	1	.906	.236	33	1/4	3/4	80	BUB-700-FC-80UR
BUH-0625 X 2-FC-35UR	11/16	2	.906	.236	33	1/4	3/4	35	BUB-700-FC-35UR
BUH-0625 X 2-FC-60UR	11/16	2	.906	.236	33	1/4	3/4	60	BUB-700-FC-60UR
BUH-0625 X 2-FC-80UR	11/16	2	.906	.236	33	1/4	3/4	80	BUB-700-FC-80UR

Hex Head Stainless Ball – Sof-Top Urethane Surface – Inch & Metric (continued)



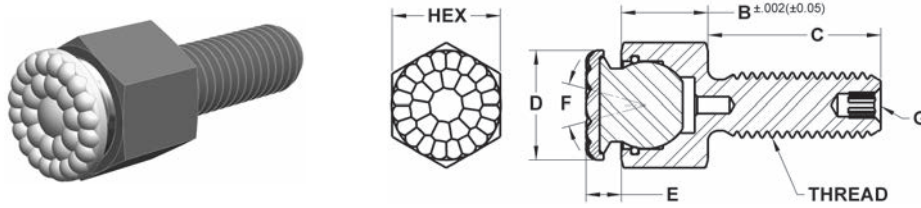
INCH (CONTINUED)

Part #	B Head Height	C Thread Length	D Contact Dia.	E Stand Off	F Degree Swivel	G Int. Hex	Ball Dia.	Durometer	Ball Only Part #
5/8-18 Threads - 15/16" Hex Head									
BUH-0620-FC-35UR	11/16	1	.906	.236	33	1/4	3/4	35	BUB-700-FC-35UR
BUH-0620-FC-60UR	11/16	1	.906	.236	33	1/4	3/4	60	BUB-700-FC-60UR
BUH-0620-FC-80UR	11/16	1	.906	.236	33	1/4	3/4	80	BUB-700-FC-80UR
BUH-0620 X 2-FC-35UR	11/16	2	.906	.236	33	1/4	3/4	35	BUB-700-FC-35UR
BUH-0620 X 2-FC-60UR	11/16	2	.906	.236	33	1/4	3/4	60	BUB-700-FC-60UR
BUH-0620 X 2-FC-80UR	11/16	2	.906	.236	33	1/4	3/4	80	BUB-700-FC-80UR

METRIC

Part #	B Head Height	C Thread Length	D Contact Dia.	E Stand Off	F Degree Swivel	G Int. Hex	Ball Dia.	Durometer	Ball Only Part #
M6x1.0 Threads - 10mm Hex Head									
MBUH-06012-FC-35UR	8	12	10	4	28	—	7	35	MBUB-070-FC-35UR
MBUH-06012-FC-60UR	8	12	10	4	28	—	7	60	MBUB-070-FC-60UR
MBUH-06012-FC-80UR	8	12	10	4	28	—	7	80	MBUB-070-FC-80UR
MBUH-06025-FC-35UR	8	25	10	4	28	—	7	35	MBUB-070-FC-35UR
MBUH-06025-FC-60UR	8	25	10	4	28	—	7	60	MBUB-070-FC-60UR
MBUH-06025-FC-80UR	8	25	10	4	28	—	7	80	MBUB-070-FC-80UR
MBUH-06040-FC-35UR	8	40	10	4	28	—	7	35	MBUB-070-FC-35UR
MBUH-06040-FC-60UR	8	40	10	4	28	—	7	60	MBUB-070-FC-60UR
MBUH-06040-FC-80UR	8	40	10	4	28	—	7	80	MBUB-070-FC-80UR
M8x1.25 Threads - 13mm Hex Head									
MBUH-08012-FC-35UR	11.5	12	13	5	28	—	10	35	MBUB-100-FC-35UR
MBUH-08012-FC-60UR	11.5	12	13	5	28	—	10	60	MBUB-100-FC-60UR
MBUH-08012-FC-80UR	11.5	12	13	5	28	—	10	80	MBUB-100-FC-80UR
MBUH-08025-FC-35UR	11.5	25	13	5	28	—	10	35	MBUB-100-FC-35UR
MBUH-08025-FC-60UR	11.5	25	13	5	28	—	10	60	MBUB-100-FC-60UR
MBUH-08025-FC-80UR	11.5	25	13	5	28	—	10	80	MBUB-100-FC-80UR
MBUH-08040-FC-35UR	11.5	40	13	5	28	—	10	35	MBUB-100-FC-35UR
MBUH-08040-FC-60UR	11.5	40	13	5	28	—	10	60	MBUB-100-FC-60UR
MBUH-08040-FC-80UR	11.5	40	13	5	28	—	10	80	MBUB-100-FC-80UR
M10x1.5 Threads - 17mm Hex Head									
MBUH-10015-FC-35UR	13	15	16	5	28	3	13	35	MBUB-130-FC-35UR
MBUH-10015-FC-60UR	13	15	16	5	28	3	13	60	MBUB-130-FC-60UR
MBUH-10015-FC-80UR	13	15	16	5	28	3	13	80	MBUB-130-FC-80UR
MBUH-10030-FC-35UR	13	30	16	5	28	3	13	35	MBUB-130-FC-35UR
MBUH-10030-FC-60UR	13	30	16	5	28	3	13	60	MBUB-130-FC-60UR
MBUH-10030-FC-80UR	13	30	16	5	28	3	13	80	MBUB-130-FC-80UR
MBUH-10050-FC-35UR	13	50	16	5	28	3	13	35	MBUB-130-FC-35UR
MBUH-10050-FC-60UR	13	50	16	5	28	3	13	60	MBUB-130-FC-60UR
MBUH-10050-FC-80UR	13	50	16	5	28	3	13	80	MBUB-130-FC-80UR

Hex Head Stainless Ball – Sof-Top Urethane Surface – Inch & Metric (continued)

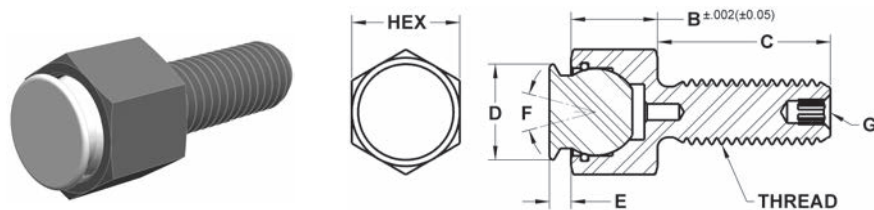


METRIC (CONTINUED)

Part #	B Head Height	C Thread Length	D Contact Dia.	E Stand Off	F Degree Swivel	G Int. Hex	Ball Dia.	Durometer	Ball Only Part #
M12x1.75 Threads - 19mm Hex Head									
MBUH-12020-FC-35UR	15	20	21	6	24	5	15	35	MBUB-150-FC-35UR
MBUH-12020-FC-60UR	15	20	21	6	24	5	15	60	MBUB-150-FC-60UR
MBUH-12020-FC-80UR	15	20	21	6	24	5	15	80	MBUB-150-FC-80UR
MBUH-12040-FC-35UR	15	40	21	6	24	5	15	35	MBUB-150-FC-35UR
MBUH-12040-FC-60UR	15	40	21	6	24	5	15	60	MBUB-150-FC-60UR
MBUH-12040-FC-80UR	15	40	21	6	24	5	15	80	MBUB-150-FC-80UR
MBUH-12060-FC-35UR	15	60	21	6	24	5	15	35	MBUB-150-FC-35UR
MBUH-12060-FC-60UR	15	60	21	6	24	5	15	60	MBUB-150-FC-60UR
MBUH-12060-FC-80UR	15	60	21	6	24	5	15	80	MBUB-150-FC-80UR
M16x2.0 Threads - 24mm Hex Head									
MBUH-16025-FC-35UR	19	25	23	6	24	6	20	35	MBUB-200-FC-35UR
MBUH-16025-FC-60UR	19	25	23	6	24	6	20	60	MBUB-200-FC-60UR
MBUH-16025-FC-80UR	19	25	23	6	24	6	20	80	MBUB-200-FC-80UR
MBUH-16050-FC-35UR	19	50	23	6	24	6	20	35	MBUB-200-FC-35UR
MBUH-16050-FC-60UR	19	50	23	6	24	6	20	60	MBUB-200-FC-60UR
MBUH-16050-FC-80UR	19	50	23	6	24	6	20	80	MBUB-200-FC-80UR
MBUH-16080-FC-35UR	19	80	23	6	24	6	20	35	MBUB-200-FC-35UR
MBUH-16080-FC-60UR	19	80	23	6	24	6	20	60	MBUB-200-FC-60UR
MBUH-16080-FC-80UR	19	80	23	6	24	6	20	80	MBUB-200-FC-80UR

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Hex Head Delrin Ball – Flat Cone – Inch & Metric

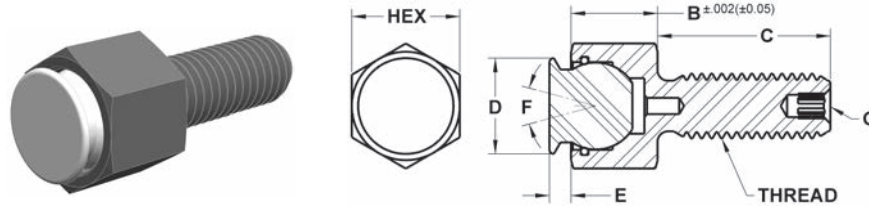


The replaceable ball swivels to allow for self-alignment on uneven surfaces. The flat cone design provides a large contact surface for greater force distribution. The replaceable ball is made from non-marring white delrin. A Viton O-ring holds the ball in place while keeping contaminants out and providing smooth ball movement. The housing is made from alloy steel, heat treated to Rc 43/46 with black oxide finish. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Head Height	C Thread Length	D Contact Dia.	E Stand Off	F Degree Swivel	G Int Hex	Ball Dia.	Ball Only Part #
#10-24 Threads - 3/8" Hex Head								
BUH-0124-DC	1/4	1/2	.236	.063	28	—	3/16	BUB-187-DC
BUH-0124 X 1-DC	1/4	1	.236	.063	28	—	3/16	BUB-187-DC
#10-32 Threads - 3/8" Hex Head								
BUH-0132-DC	1/4	1/2	.236	.063	28	—	3/16	BUB-187-DC
BUH-0132 X 1-DC	1/4	1	.236	.063	28	—	3/16	BUB-187-DC
1/4-20 Threads - 7/16" Hex Head								
BUH-0250-DC	5/16	1/2	.315	.094	28	—	9/32	BUB-200-DC
BUH-0251-DC	5/16	1	.315	.094	28	—	9/32	BUB-200-DC
BUH-0251 X 1.5-DC	5/16	1-1/2	.315	.094	28	—	9/32	BUB-200-DC
1/4-28 Threads - 7/16" Hex Head								
BUH-0280-DC	5/16	1/2	.315	.094	28	—	9/32	BUB-200-DC
BUH-0281-DC	5/16	1	.315	.094	28	—	9/32	BUB-200-DC
BUH-0281 X 1.5-DC	5/16	1-1/2	.315	.094	28	—	9/32	BUB-200-DC
5/16-18 Threads - 1/2" Hex Head								
BUH-0310-DC	3/8	1/2	.433	.125	28	—	3/8	BUB-300-DC
BUH-0312-DC	3/8	1	.433	.125	28	—	3/8	BUB-300-DC
BUH-0312 X 1.5-DC	3/8	1-1/2	.433	.125	28	—	3/8	BUB-300-DC
5/16-24 Threads - 1/2" Hex Head								
BUH-0320-DC	3/8	1/2	.433	.125	28	—	3/8	BUB-300-DC
BUH-0321-DC	3/8	1	.433	.125	28	—	3/8	BUB-300-DC
BUH-0321 X 1.5-DC	3/8	1-1/2	.433	.125	28	—	3/8	BUB-300-DC
3/8-16 Threads - 5/8" Hex Head								
BUH-0370-DC	1/2	1/2	.551	.125	28	1/8	1/2	BUB-500-DC
BUH-0375-DC	1/2	1	.551	.125	28	1/8	1/2	BUB-500-DC
BUH-0375 X 1.5-DC	1/2	1-1/2	.551	.125	28	1/8	1/2	BUB-500-DC
3/8-24 Threads - 5/8" Hex Head								
BUH-0230-DC	1/2	1/2	.551	.125	28	1/8	1/2	BUB-500-DC
BUH-0231-DC	1/2	1	.551	.125	28	1/8	1/2	BUB-500-DC
BUH-0231 X 1.5-DC	1/2	1-1/2	.551	.125	28	1/8	1/2	BUB-500-DC
1/2-13 Threads - 13/16" Hex Head								
BUH-0510-DC	5/8	1	.748	.156	32	3/16	5/8	BUB-600-DC
BUH-0515-DC	5/8	1-1/2	.748	.156	32	3/16	5/8	BUB-600-DC
1/2-20 Threads - 13/16" Hex Head								
BUH-0240-DC	5/8	1	.748	.156	32	3/16	5/8	BUB-600-DC
BUH-0500-DC	5/8	1-1/2	.748	.156	32	3/16	5/8	BUB-600-DC
5/8-11 Threads - 15/16" Hex Head								
BUH-0625-DC	11/16	1	.827	.156	32	1/4	3/4	BUB-700-DC
BUH-0625 X 2-DC	11/16	2	.827	.156	32	1/4	3/4	BUB-700-DC
5/8-18 Threads - 15/16" Hex Head								
BUH-0620-DC	11/16	1	.827	.156	32	1/4	3/4	BUB-700-DC
BUH-0620 X 2-DC	11/16	2	.827	.156	32	1/4	3/4	BUB-700-DC

Hex Head Delrin Ball – Flat Cone – Inch & Metric (continued)

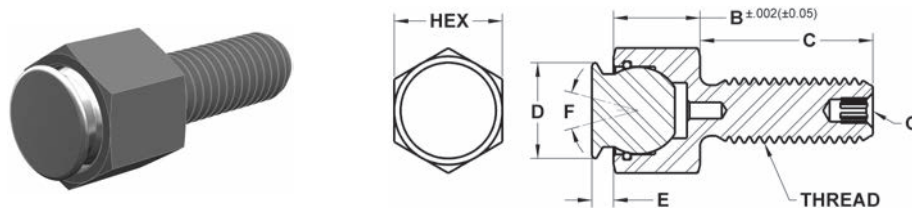


METRIC

Part #	B Head Height	C Thread Length	D Contact Dia.	E Stand Off	F Degree Swivel	G Int Hex	Ball Dia.	Ball Only Part #
M6x1.0 Threads - 10mm Hex Head								
MBUH-06012-DC	8	12	8	2	28	—	7	MBUB-070-DC
MBUH-06025-DC	8	25	8	2	28	—	7	MBUB-070-DC
MBUH-06040-DC	8	40	8	2	28	—	7	MBUB-070-DC
M8x1.25 Threads - 13mm Hex Head								
MBUH-08012-DC	11.5	12	11	3	28	—	10	MBUB-100-DC
MBUH-08025-DC	11.5	25	11	3	28	—	10	MBUB-100-DC
MBUH-08040-DC	11.5	40	11	3	28	—	10	MBUB-100-DC
M10x1.5 Threads - 17mm Hex Head								
MBUH-10015-DC	13	15	14	3	28	3	13	MBUB-130-DC
MBUH-10030-DC	13	30	14	3	28	3	13	MBUB-130-DC
MBUH-10050-DC	13	50	14	3	28	3	13	MBUB-130-DC
M12x1.75 Threads - 19mm Hex Head								
MBUH-12020-DC	15	20	19	4	24	5	15	MBUB-150-DC
MBUH-12040-DC	15	40	19	4	24	5	15	MBUB-150-DC
MBUH-12060-DC	15	60	19	4	24	5	15	MBUB-150-DC
M16x2.0 Threads - 24mm Hex Head								
MBUH-16025-DC	19	25	21	4	24	6	20	MBUB-200-DC
MBUH-16050-DC	19	50	21	4	24	6	20	MBUB-200-DC
MBUH-16080-DC	19	80	21	4	24	6	20	MBUB-200-DC

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Hex Head Stainless Ball – Flat Cone – Inch & Metric

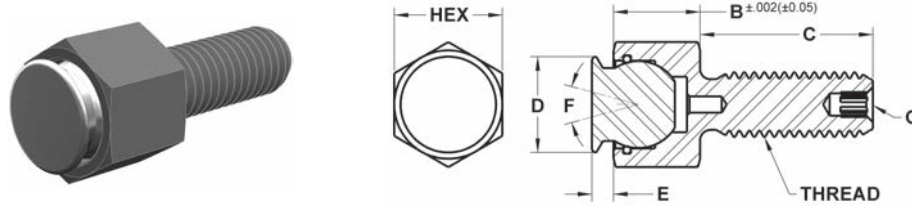


The replaceable ball swivels to allow for self-alignment on uneven surfaces. The flat cone design provides a large contact surface for greater force distribution. A Viton O-ring holds the ball in place while keeping contaminants out and providing smooth ball movement. The housing is made from alloy steel, heat treated to Rc 43/46 with black oxide finish. The replaceable ball is made from 300 series stainless steel. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Head Height	C Thread Length	D Contact Dia.	E Stand Off	F Degree Swivel	G Int Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs
#10-24 Threads - 3/8" Hex Head									
BUH-0124-FC	1/4	1/2	.236	.063	28	—	3/16	BUB-187-FC	1,176
BUH-0124 X 1-FC	1/4	1	.236	.063	28	—	3/16	BUB-187-FC	1,176
#10-32 Threads - 3/8" Hex Head									
BUH-0132-FC	1/4	1/2	.236	.063	28	—	3/16	BUB-187-FC	1,176
BUH-0132 X 1-FC	1/4	1	.236	.063	28	—	3/16	BUB-187-FC	1,176
1/4-20 Threads - 7/16" Hex Head									
BUH-0250-FC	5/16	1/2	.315	.094	28	—	9/32	BUB-200-FC	2,441
BUH-0251-FC	5/16	1	.315	.094	28	—	9/32	BUB-200-FC	2,441
BUH-0251 X 1.5-FC	5/16	1-1/2	.315	.094	28	—	9/32	BUB-200-FC	2,441
1/4-28 Threads - 7/16" Hex Head									
BUH-0280-FC	5/16	1/2	.315	.094	28	—	9/32	BUB-200-FC	2,441
BUH-0281-FC	5/16	1	.315	.094	28	—	9/32	BUB-200-FC	2,441
BUH-0281 X 1.5-FC	5/16	1-1/2	.315	.094	28	—	9/32	BUB-200-FC	2,441
5/16-18 Threads - 1/2" Hex Head									
BUH-0310-FC	3/8	1/2	.433	.125	28	—	3/8	BUB-300-FC	2,792
BUH-0312-FC	3/8	1	.433	.125	28	—	3/8	BUB-300-FC	2,792
BUH-0312 X 1.5-FC	3/8	1-1/2	.433	.125	28	—	3/8	BUB-300-FC	2,792
5/16-24 Threads - 1/2" Hex Head									
BUH-0320-FC	3/8	1/2	.433	.125	28	—	3/8	BUB-300-FC	2,792
BUH-0321-FC	3/8	1	.433	.125	28	—	3/8	BUB-300-FC	2,792
BUH-0321 X 1.5-FC	3/8	1-1/2	.433	.125	28	—	3/8	BUB-300-FC	2,792
3/8-16 Threads - 5/8" Hex Head									
BUH-0370-FC	1/2	1/2	.551	.125	28	1/8	1/2	BUB-500-FC	3,446
BUH-0375-FC	1/2	1	.551	.125	28	1/8	1/2	BUB-500-FC	3,446
BUH-0375 X 1.5-FC	1/2	1-1/2	.551	.125	28	1/8	1/2	BUB-500-FC	3,446
3/8-24 Threads - 5/8" Hex Head									
BUH-0230-FC	1/2	1/2	.551	.125	28	1/8	1/2	BUB-500-FC	3,446
BUH-0231-FC	1/2	1	.551	.125	28	1/8	1/2	BUB-500-FC	3,446
BUH-0231 X 1.5-FC	1/2	1-1/2	.551	.125	28	1/8	1/2	BUB-500-FC	3,446
1/2-13 Threads - 13/16" Hex Head									
BUH-0510-FC	5/8	1	.748	.156	32	3/16	5/8	BUB-600-FC	5,937
BUH-0515-FC	5/8	1-1/2	.748	.156	32	3/16	5/8	BUB-600-FC	5,937
1/2-20 Threads - 13/16" Hex Head									
BUH-0240-FC	5/8	1	.748	.156	32	3/16	5/8	BUB-600-FC	7,178
BUH-0500-FC	5/8	1-1/2	.748	.156	32	3/16	5/8	BUB-600-FC	7,178
5/8-11 Threads - 15/16" Hex Head									
BUH-0625-FC	11/16	1	.827	.156	32	1/4	3/4	BUB-700-FC	9,932
BUH-0625 X 2-FC	11/16	2	.827	.156	32	1/4	3/4	BUB-700-FC	9,932
5/8-18 Threads - 15/16" Hex Head									
BUH-0620-FC	11/16	1	.827	.156	32	1/4	3/4	BUB-700-FC	11,874
BUH-0620 X 2-FC	11/16	2	.827	.156	32	1/4	3/4	BUB-700-FC	11,874

Hex Head Stainless Ball – Flat Cone – Inch & Metric (continued)

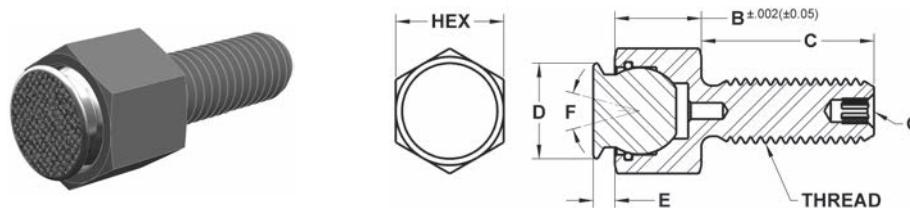


METRIC

Part #	B Head Height	C Thread Length	D Contact Dia.	E Stand Off	F Degree Swivel	G Int Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs
M6x1.0 Threads - 10mm Hex Head									
MBUH-06012-FC	8	12	8	2	28	—	7	MBUB-070-FC	2,061
MBUH-06025-FC	8	25	8	2	28	—	7	MBUB-070-FC	2,061
MBUH-06040-FC	8	40	8	2	28	—	7	MBUB-070-FC	2,061
M8x1.25 Threads - 13mm Hex Head									
MBUH-08012-FC	11.5	12	11	3	28	—	10	MBUB-100-FC	3,450
MBUH-08025-FC	11.5	25	11	3	28	—	10	MBUB-100-FC	3,450
MBUH-08040-FC	11.5	40	11	3	28	—	10	MBUB-100-FC	3,450
M10x1.5 Threads - 17mm Hex Head									
MBUH-10015-FC	13	15	14	3	28	3	13	MBUB-130-FC	4,194
MBUH-10030-FC	13	30	14	3	28	3	13	MBUB-130-FC	4,194
MBUH-10050-FC	13	50	14	3	28	3	13	MBUB-130-FC	4,194
M12x1.75 Threads - 19mm Hex Head									
MBUH-12020-FC	15	20	19	4	24	5	15	MBUB-150-FC	6,627
MBUH-12040-FC	15	40	19	4	24	5	15	MBUB-150-FC	6,627
MBUH-12060-FC	15	60	19	4	24	5	15	MBUB-150-FC	6,627
M16x2.0 Threads - 24mm Hex Head									
MBUH-16025-FC	19	25	21	4	24	6	20	MBUB-200-FC	11,183
MBUH-16050-FC	19	50	21	4	24	6	20	MBUB-200-FC	11,183
MBUH-16080-FC	19	80	21	4	24	6	20	MBUB-200-FC	11,183

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Hex Head Stainless Ball – Abrasive Diamond Surface – Inch & Metric

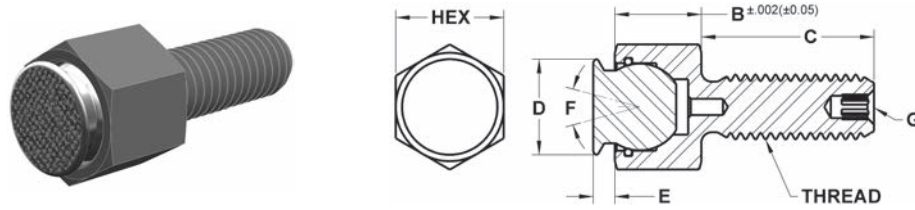


The replaceable ball swivels to allow for self-alignment on uneven surfaces. A Viton O-ring holds the ball in place while keeping contaminants out and providing smooth ball movement. The housing is made from alloy steel, heat treated to Rc 43/46 with black oxide finish. The abrasive surface is permanently fused to a 300 series stainless steel pad. The surface texture is comparable to a 100 grit abrasive. They are ideal for holding smooth or slippery applications with a minimum of clamping pressure. Individual diamond particles transfer holding pressure to a very small and well distributed area, providing superior holding with minimal surface marking. The diamond surface provides unparalleled wear resistance. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Head Height	C Thread Length	D Contact Dia.	E Stand Off	F Degree Swivel	G Int Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs
#10-24 Threads - 3/8" Hex Head									
BUH-0124-FC-DS	1/4	1/2	.236	.063	28	—	3/16	BUB-187-FC-DS	1,176
BUH-0124 X 1-FC-DS	1/4	1	.236	.063	28	—	3/16	BUB-187-FC-DS	1,176
#10-32 Threads - 3/8" Hex Head									
BUH-0132-FC-DS	1/4	1/2	.236	.063	28	—	3/16	BUB-187-FC-DS	1,176
BUH-0132 X 1-FC-DS	1/4	1	.236	.063	28	—	3/16	BUB-187-FC-DS	1,176
1/4-20 Threads - 7/16" Hex Head									
BUH-0250-FC-DS	5/16	1/2	.315	.094	28	—	9/32	BUB-200-FC-DS	2,441
BUH-0251-FC-DS	5/16	1	.315	.094	28	—	9/32	BUB-200-FC-DS	2,441
BUH-0251 X 1.5-FC-DS	5/16	1-1/2	.315	.094	28	—	9/32	BUB-200-FC-DS	2,441
1/4-28 Threads - 7/16" Hex Head									
BUH-0280-FC-DS	5/16	1/2	.315	.094	28	—	9/32	BUB-200-FC-DS	2,441
BUH-0281-FC-DS	5/16	1	.315	.094	28	—	9/32	BUB-200-FC-DS	2,441
BUH-0281 X 1.5-FC-DS	5/16	1-1/2	.315	.094	28	—	9/32	BUB-200-FC-DS	2,441
5/16-18 Threads - 1/2" Hex Head									
BUH-0310-FC-DS	3/8	1/2	.433	.125	28	—	3/8	BUB-300-FC-DS	2,792
BUH-0312-FC-DS	3/8	1	.433	.125	28	—	3/8	BUB-300-FC-DS	2,792
BUH-0312 X 1.5-FC-DS	3/8	1-1/2	.433	.125	28	—	3/8	BUB-300-FC-DS	2,792
5/16-24 Threads - 1/2" Hex Head									
BUH-0320-FC-DS	3/8	1/2	.433	.125	28	—	3/8	BUB-300-FC-DS	2,792
BUH-0321-FC-DS	3/8	1	.433	.125	28	—	3/8	BUB-300-FC-DS	2,792
BUH-0321 X 1.5-FC-DS	3/8	1-1/2	.433	.125	28	—	3/8	BUB-300-FC-DS	2,792
3/8-16 Threads - 5/8" Hex Head									
BUH-0370-FC-DS	1/2	1/2	.551	.125	28	1/8	1/2	BUB-500-FC-DS	3,446
BUH-0375-FC-DS	1/2	1	.551	.125	28	1/8	1/2	BUB-500-FC-DS	3,446
BUH-0375 X 1.5-FC-DS	1/2	1-1/2	.551	.125	28	1/8	1/2	BUB-500-FC-DS	3,446
3/8-24 Threads - 5/8" Hex Head									
BUH-0230-FC-DS	1/2	1/2	.551	.125	28	1/8	1/2	BUB-500-FC-DS	3,446
BUH-0231-FC-DS	1/2	1	.551	.125	28	1/8	1/2	BUB-500-FC-DS	3,446
BUH-0231 X 1.5-FC-DS	1/2	1-1/2	.551	.125	28	1/8	1/2	BUB-500-FC-DS	3,446
1/2-13 Threads - 13/16" Hex Head									
BUH-0510-FC-DS	5/8	1	.748	.156	32	3/16	5/8	BUB-600-FC-DS	5,937
BUH-0515-FC-DS	5/8	1-1/2	.748	.156	32	3/16	5/8	BUB-600-FC-DS	5,937
1/2-20 Threads - 13/16" Hex Head									
BUH-0240-FC-DS	5/8	1	.748	.156	32	3/16	5/8	BUB-600-FC-DS	7,178
BUH-0500-FC-DS	5/8	1-1/2	.748	.156	32	3/16	5/8	BUB-600-FC-DS	7,178
5/8-11 Threads - 15/16" Hex Head									
BUH-0625-FC-DS	11/16	1	.827	.156	32	1/4	3/4	BUB-700-FC-DS	9,932
BUH-0625 X 2-FC-DS	11/16	2	.827	.156	32	1/4	3/4	BUB-700-FC-DS	9,932
5/8-18 Threads - 15/16" Hex Head									
BUH-0620-FC-DS	11/16	1	.827	.156	32	1/4	3/4	BUB-700-FC-DS	11,874
BUH-0620 X 2-FC-DS	11/16	2	.827	.156	32	1/4	3/4	BUB-700-FC-DS	11,874

Hex Head Stainless Ball – Abrasive Diamond Surface – Inch & Metric (continued)



METRIC

Part #	B Head Height	C Thread Length	D Contact Dia.	E Stand Off	F Degree Swivel	G Int Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs
M6x1.0 Threads - 10mm Hex Head									
MBUH-06012-FC-DS	8	12	8	2	28	—	7	MBUB-070-FC-DS	2,061
MBUH-06025-FC-DS	8	25	8	2	28	—	7	MBUB-070-FC-DS	2,061
MBUH-06040-FC-DS	8	40	8	2	28	—	7	MBUB-070-FC-DS	2,061
M8x1.25 Threads - 13mm Hex Head									
MBUH-08012-FC-DS	11.5	12	11	3	28	—	10	MBUB-100-FC-DS	3,450
MBUH-08025-FC-DS	11.5	25	11	3	28	—	10	MBUB-100-FC-DS	3,450
MBUH-08040-FC-DS	11.5	40	11	3	28	—	10	MBUB-100-FC-DS	3,450
M10x1.5 Threads - 17mm Hex Head									
MBUH-10015-FC-DS	13	15	14	3	28	3	13	MBUB-130-FC-DS	4,194
MBUH-10030-FC-DS	13	30	14	3	28	3	13	MBUB-130-FC-DS	4,194
MBUH-10050-FC-DS	13	50	14	3	28	3	13	MBUB-130-FC-DS	4,194
M12x1.5 Threads - 19mm Hex Head									
MBUH-12020-FC-DS	15	20	19	4	24	5	15	MBUB-150-FC-DS	6,627
MBUH-12040-FC-DS	15	40	19	4	24	5	15	MBUB-150-FC-DS	6,627
MBUH-12060-FC-DS	15	60	19	4	24	5	15	MBUB-150-FC-DS	6,627
M16x2.0 Threads - 24mm Hex Head									
MBUH-16025-FC-DS	19	25	21	4	24	6	20	MBUB-200-FC-DS	11,183
MBUH-16050-FC-DS	19	50	21	4	24	6	20	MBUB-200-FC-DS	11,183
MBUH-16080-FC-DS	19	80	21	4	24	6	20	MBUB-200-FC-DS	11,183

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Threaded Body Stainless Ball – Sof-Top Urethane Surface – Inch & Metric

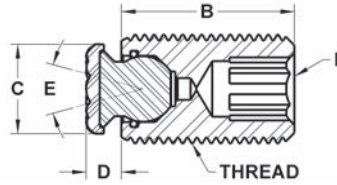
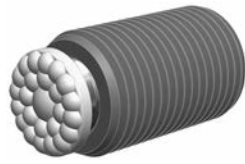


The replaceable ball swivels to allow for better self-alignment on uneven surfaces. A Viton O-ring holds the ball in place while keeping contaminants out and providing smooth ball movement. The housing is made from alloy steel, heat treated to Rc 43/46 with black oxide finish. The urethane surface is permanently bonded to a 300 series stainless steel ball. The non-marking, non-staining urethane provides excellent protection against damage on delicate work surfaces. The “bubbled” texture of the urethane top offers firm holding and allows air to escape so no suction is created between the contact surface and the top of the rest pad as it is compressed. Because the top is made of urethane it offers superior abrasion and wear resistance. They are available in three durometers to meet a wide variety of application needs. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Durometer	Ball Only Part #
3/8-16 Threads								
TBU-0370-FC-35UR	1/2	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TBU-0370-FC-60UR	1/2	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TBU-0370-FC-80UR	1/2	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TBU-0375-FC-35UR	1	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TBU-0375-FC-60UR	1	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TBU-0375-FC-80UR	1	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TBU-0375 X 2-FC-35UR	2	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TBU-0375 X 2-FC-60UR	2	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TBU-0375 X 2-FC-80UR	2	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TBU-0375 X 3-FC-35UR	3	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TBU-0375 X 3-FC-60UR	3	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TBU-0375 X 3-FC-80UR	3	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
3/8-24 Threads								
TBU-0230-FC-35UR	1/2	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TBU-0230-FC-60UR	1/2	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TBU-0230-FC-80UR	1/2	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TBU-0231-FC-35UR	1	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TBU-0231-FC-60UR	1	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TBU-0231-FC-80UR	1	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TBU-0231 X 2-FC-35UR	2	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TBU-0231 X 2-FC-60UR	2	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TBU-0231 X 2-FC-80UR	2	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TBU-0231 X 3-FC-35UR	3	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TBU-0231 X 3-FC-60UR	3	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TBU-0231 X 3-FC-80UR	3	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
1/2-13 Threads								
TBU-0513-FC-35UR	3/4	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TBU-0513-FC-60UR	3/4	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TBU-0513-FC-80UR	3/4	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
TBU-0510-FC-35UR	1	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TBU-0510-FC-60UR	1	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TBU-0510-FC-80UR	1	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
TBU-0510 X 2-FC-35UR	2	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TBU-0510 X 2-FC-60UR	2	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TBU-0510 X 2-FC-80UR	2	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
TBU-0510 X 3-FC-35UR	3	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TBU-0510 X 3-FC-60UR	3	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TBU-0510 X 3-FC-80UR	3	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR

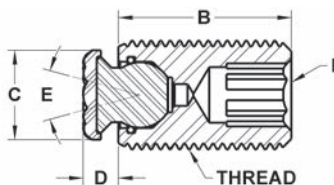
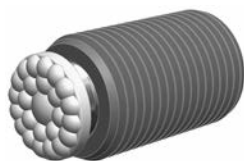
Threaded Body Stainless Ball – Sof-Top Urethane Surface – Inch & Metric (cont)



INCH (CONTINUED)

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Durometer	Ball Only Part #
1/2-20 Threads								
TBU-0503-FC-35UR	3/4	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TBU-0503-FC-60UR	3/4	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TBU-0503-FC-80UR	3/4	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
TBU-0500-FC-35UR	1	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TBU-0500-FC-60UR	1	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TBU-0500-FC-80UR	1	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
TBU-0500 X 2-FC-35UR	2	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TBU-0500 X 2-FC-60UR	2	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TBU-0500 X 2-FC-80UR	2	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
TBU-0500 X 3-FC-35UR	3	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TBU-0500 X 3-FC-60UR	3	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TBU-0500 X 3-FC-80UR	3	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
5/8-11 Threads								
TBU-0625-FC-35UR	1	.512	.205	28	5/16	3/8	35	BUB-300-FC-35UR
TBU-0625-FC-60UR	1	.512	.205	28	5/16	3/8	60	BUB-300-FC-60UR
TBU-0625-FC-80UR	1	.512	.205	28	5/16	3/8	80	BUB-300-FC-80UR
TBU-0625 X 2-FC-35UR	2	.512	.205	28	5/16	3/8	35	BUB-300-FC-35UR
TBU-0625 X 2-FC-60UR	2	.512	.205	28	5/16	3/8	60	BUB-300-FC-60UR
TBU-0625 X 2-FC-80UR	2	.512	.205	28	5/16	3/8	80	BUB-300-FC-80UR
TBU-0625 X 3-FC-35UR	3	.512	.205	28	5/16	3/8	35	BUB-300-FC-35UR
TBU-0625 X 3-FC-60UR	3	.512	.205	28	5/16	3/8	60	BUB-300-FC-60UR
TBU-0625 X 3-FC-80UR	3	.512	.205	28	5/16	3/8	80	BUB-300-FC-80UR
5/8-18 Threads								
TBU-0620-FC-35UR	1	.512	.205	28	5/16	3/8	35	BUB-300-FC-35UR
TBU-0620-FC-60UR	1	.512	.205	28	5/16	3/8	60	BUB-300-FC-60UR
TBU-0620-FC-80UR	1	.512	.205	28	5/16	3/8	80	BUB-300-FC-80UR
TBU-0620 X 2-FC-35UR	2	.512	.205	28	5/16	3/8	35	BUB-300-FC-35UR
TBU-0620 X 2-FC-60UR	2	.512	.205	28	5/16	3/8	60	BUB-300-FC-60UR
TBU-0620 X 2-FC-80UR	2	.512	.205	28	5/16	3/8	80	BUB-300-FC-80UR
TBU-0620 X 3-FC-35UR	3	.512	.205	28	5/16	3/8	35	BUB-300-FC-35UR
TBU-0620 X 3-FC-60UR	3	.512	.205	28	5/16	3/8	60	BUB-300-FC-60UR
TBU-0620 X 3-FC-80UR	3	.512	.205	28	5/16	3/8	80	BUB-300-FC-80UR
3/4-10 Threads								
TBU-0755-FC-35UR	1	.630	.205	28	3/8	1/2	35	BUB-500-FC-35UR
TBU-0755-FC-60UR	1	.630	.205	28	3/8	1/2	60	BUB-500-FC-60UR
TBU-0755-FC-80UR	1	.630	.205	28	3/8	1/2	80	BUB-500-FC-80UR
TBU-0755 X 2-FC-35UR	2	.630	.205	28	3/8	1/2	35	BUB-500-FC-35UR
TBU-0755 X 2-FC-60UR	2	.630	.205	28	3/8	1/2	60	BUB-500-FC-60UR
TBU-0755 X 2-FC-80UR	2	.630	.205	28	3/8	1/2	80	BUB-500-FC-80UR
TBU-0755 X 3-FC-35UR	3	.630	.205	28	3/8	1/2	35	BUB-500-FC-35UR
TBU-0755 X 3-FC-60UR	3	.630	.205	28	3/8	1/2	60	BUB-500-FC-60UR
TBU-0755 X 3-FC-80UR	3	.630	.205	28	3/8	1/2	80	BUB-500-FC-80UR
3/4-16 Threads								
TBU-0750-FC-35UR	1	.630	.205	28	3/8	1/2	35	BUB-500-FC-35UR
TBU-0750-FC-60UR	1	.630	.205	28	3/8	1/2	60	BUB-500-FC-60UR
TBU-0750-FC-80UR	1	.630	.205	28	3/8	1/2	80	BUB-500-FC-80UR
TBU-0750 X 2-FC-35UR	2	.630	.205	28	3/8	1/2	35	BUB-500-FC-35UR
TBU-0750 X 2-FC-60UR	2	.630	.205	28	3/8	1/2	60	BUB-500-FC-60UR
TBU-0750 X 2-FC-80UR	2	.630	.205	28	3/8	1/2	80	BUB-500-FC-80UR
TBU-0750 X 3-FC-35UR	3	.630	.205	28	3/8	1/2	35	BUB-500-FC-35UR
TBU-0750 X 3-FC-60UR	3	.630	.205	28	3/8	1/2	60	BUB-500-FC-60UR
TBU-0750 X 3-FC-80UR	3	.630	.205	28	3/8	1/2	80	BUB-500-FC-80UR

Threaded Body Stainless Ball – Sof-Top Urethane Surface – Inch & Metric (cont)



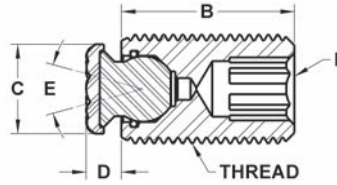
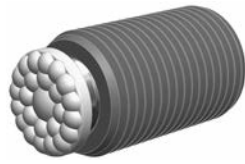
INCH (CONTINUED)

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Durometer	Ball Only Part #
1"-8 Threads								
TBU-1108-FC-35UR	1	.827	.236	32	3/8	5/8	35	BUB-600-FC-35UR
TBU-1108-FC-60UR	1	.827	.236	32	3/8	5/8	60	BUB-600-FC-60UR
TBU-1108-FC-80UR	1	.827	.236	32	3/8	5/8	80	BUB-600-FC-80UR
TBU-1108 X 2-FC-35UR	2	.827	.236	32	3/8	5/8	35	BUB-600-FC-35UR
TBU-1108 X 2-FC-60UR	2	.827	.236	32	3/8	5/8	60	BUB-600-FC-60UR
TBU-1108 X 2-FC-80UR	2	.827	.236	32	3/8	5/8	80	BUB-600-FC-80UR
TBU-1108 X 3-FC-35UR	3	.827	.236	32	3/8	5/8	35	BUB-600-FC-35UR
TBU-1108 X 3-FC-60UR	3	.827	.236	32	3/8	5/8	60	BUB-600-FC-60UR
TBU-1108 X 3-FC-80UR	3	.827	.236	32	3/8	5/8	80	BUB-600-FC-80UR
1"-14 Threads								
TBU-1114-FC-35UR	1	.906	.236	32	3/8	3/4	35	BUB-700-FC-35UR
TBU-1114-FC-60UR	1	.906	.236	32	3/8	3/4	60	BUB-700-FC-60UR
TBU-1114-FC-80UR	1	.906	.236	32	3/8	3/4	80	BUB-700-FC-80UR
TBU-1114 X 2-FC-35UR	2	.906	.236	32	3/8	3/4	35	BUB-700-FC-35UR
TBU-1114 X 2-FC-60UR	2	.906	.236	32	3/8	3/4	60	BUB-700-FC-60UR
TBU-1114 X 2-FC-80UR	2	.906	.236	32	3/8	3/4	80	BUB-700-FC-80UR
TBU-1114 X 3-FC-35UR	3	.906	.236	32	3/8	3/4	35	BUB-700-FC-35UR
TBU-1114 X 3-FC-60UR	3	.906	.236	32	3/8	3/4	60	BUB-700-FC-60UR
TBU-1114 X 3-FC-80UR	3	.906	.236	32	3/8	3/4	80	BUB-700-FC-80UR

METRIC

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Durometer	Ball Only Part #
M10x1.5 Threads								
MTBU-10025-FC-35UR	25	8	3.5	28	5	5	35	MBUB-050-FC-35UR
MTBU-10025-FC-60UR	25	8	3.5	28	5	5	60	MBUB-050-FC-60UR
MTBU-10025-FC-80UR	25	8	3.5	28	5	5	80	MBUB-050-FC-80UR
MTBU-10035-FC-35UR	35	8	3.5	28	5	5	35	MBUB-050-FC-35UR
MTBU-10035-FC-60UR	35	8	3.5	28	5	5	60	MBUB-050-FC-60UR
MTBU-10035-FC-80UR	35	8	3.5	28	5	5	80	MBUB-050-FC-80UR
MTBU-10050-FC-35UR	50	8	3.5	28	5	5	35	MBUB-050-FC-35UR
MTBU-10050-FC-60UR	50	8	3.5	28	5	5	60	MBUB-050-FC-60UR
MTBU-10050-FC-80UR	50	8	3.5	28	5	5	80	MBUB-050-FC-80UR
M12x1.75 Threads								
MTBU-12025-FC-35UR	25	10	4	28	6	7	35	MBUB-070-FC-35UR
MTBU-12025-FC-60UR	25	10	4	28	6	7	60	MBUB-070-FC-60UR
MTBU-12025-FC-80UR	25	10	4	28	6	7	80	MBUB-070-FC-80UR
MTBU-12035-FC-35UR	35	10	4	28	6	7	35	MBUB-070-FC-35UR
MTBU-12035-FC-60UR	35	10	4	28	6	7	60	MBUB-070-FC-60UR
MTBU-12035-FC-80UR	35	10	4	28	6	7	80	MBUB-070-FC-80UR
MTBU-12050-FC-35UR	50	10	4	28	6	7	35	MBUB-070-FC-35UR
MTBU-12050-FC-60UR	50	10	4	28	6	7	60	MBUB-070-FC-60UR
MTBU-12050-FC-80UR	50	10	4	28	6	7	80	MBUB-070-FC-80UR

Threaded Body Stainless Ball – Sof-Top Urethane Surface – Inch & Metric (cont)



METRIC (CONTINUED)

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Durometer	Ball Only Part #
M16x2.0 Threads								
MTBU-16025-FC-35UR	25	13	5	28	8	10	35	MBUB-100-FC-35UR
MTBU-16025-FC-60UR	25	13	5	28	8	10	60	MBUB-100-FC-60UR
MTBU-16025-FC-80UR	25	13	5	28	8	10	80	MBUB-100-FC-80UR
MTBU-16035-FC-35UR	35	13	5	28	8	10	35	MBUB-100-FC-35UR
MTBU-16035-FC-60UR	35	13	5	28	8	10	60	MBUB-100-FC-60UR
MTBU-16035-FC-80UR	35	13	5	28	8	10	80	MBUB-100-FC-80UR
MTBU-16050-FC-35UR	50	13	5	28	8	10	35	MBUB-100-FC-35UR
MTBU-16050-FC-60UR	50	13	5	28	8	10	60	MBUB-100-FC-60UR
MTBU-16050-FC-80UR	50	13	5	28	8	10	80	MBUB-100-FC-80UR
M20x2.5 Threads								
MTBU-20030-FC-35UR	30	16	5	28	10	13	35	MBUB-130-FC-35UR
MTBU-20030-FC-60UR	30	16	5	28	10	13	60	MBUB-130-FC-60UR
MTBU-20030-FC-80UR	30	16	5	28	10	13	80	MBUB-130-FC-80UR
MTBU-20050-FC-35UR	50	16	5	28	10	13	35	MBUB-130-FC-35UR
MTBU-20050-FC-60UR	50	16	5	28	10	13	60	MBUB-130-FC-60UR
MTBU-20050-FC-80UR	50	16	5	28	10	13	80	MBUB-130-FC-80UR
MTBU-20070-FC-35UR	70	16	5	28	10	13	35	MBUB-130-FC-35UR
MTBU-20070-FC-60UR	70	16	5	28	10	13	60	MBUB-130-FC-60UR
MTBU-20070-FC-80UR	70	16	5	28	10	13	80	MBUB-130-FC-80UR
M24x3.0 Threads								
MTBU-24040-FC-35UR	40	21	6	24	10	15	35	MBUB-150-FC-35UR
MTBU-24040-FC-60UR	40	21	6	24	10	15	60	MBUB-150-FC-60UR
MTBU-24040-FC-80UR	40	21	6	24	10	15	80	MBUB-150-FC-80UR
MTBU-24080-FC-35UR	80	21	6	24	10	15	35	MBUB-150-FC-35UR
MTBU-24080-FC-60UR	80	21	6	24	10	15	60	MBUB-150-FC-60UR
MTBU-24080-FC-80UR	80	21	6	24	10	15	80	MBUB-150-FC-80UR

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Threaded Body Delrin Ball – Flat Cone – Inch & Metric

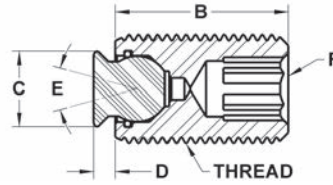
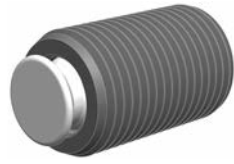


The replaceable ball swivels to allow for self-alignment on uneven surfaces. The flat cone design provides a large contact surface for greater force distribution. The replaceable ball is made from non-marring white delrin. A Viton O-ring holds the ball in place while keeping contaminants out and providing smooth ball movement. The housing is made from alloy steel, heat treated to Rc 43/46 with black oxide finish. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Ball Only Part #
3/8-16 Threads							
TBU-0370-DC	1/2	.236	.063	28	3/16	3/16	BUB-187-DC
TBU-0375-DC	1	.236	.063	28	3/16	3/16	BUB-187-DC
TBU-0375 X 2-DC	2	.236	.063	28	3/16	3/16	BUB-187-DC
TBU-0375 X 3-DC	3	.236	.063	28	3/16	3/16	BUB-187-DC
3/8-24 Threads							
TBU-0230-DC	1/2	.236	.063	28	3/16	3/16	BUB-187-DC
TBU-0231-DC	1	.236	.063	28	3/16	3/16	BUB-187-DC
TBU-0231 X 2-DC	2	.236	.063	28	3/16	3/16	BUB-187-DC
TBU-0231 X 3-DC	3	.236	.063	28	3/16	3/16	BUB-187-DC
1/2-13 Threads							
TBU-0513-DC	3/4	.315	.094	28	1/4	9/32	BUB-200-DC
TBU-0510-DC	1	.315	.094	28	1/4	9/32	BUB-200-DC
TBU-0510 X 2-DC	2	.315	.094	28	1/4	9/32	BUB-200-DC
TBU-0510 X 3-DC	3	.315	.094	28	1/4	9/32	BUB-200-DC
1/2-20 Threads							
TBU-0503-DC	3/4	.315	.094	28	1/4	9/32	BUB-200-DC
TBU-0500-DC	1	.315	.094	28	1/4	9/32	BUB-200-DC
TBU-0500 X 2-DC	2	.315	.094	28	1/4	9/32	BUB-200-DC
TBU-0500 X 3-DC	3	.315	.094	28	1/4	9/32	BUB-200-DC
5/8-11 Threads							
TBU-0625-DC	1	.433	.125	28	5/16	3/8	BUB-300-DC
TBU-0625 X 2-DC	2	.433	.125	28	5/16	3/8	BUB-300-DC
TBU-0625 X 3-DC	3	.433	.125	28	5/16	3/8	BUB-300-DC
5/8-18 Threads							
TBU-0620-DC	1	.433	.125	28	5/16	3/8	BUB-300-DC
TBU-0620 X 2-DC	2	.433	.125	28	5/16	3/8	BUB-300-DC
TBU-0620 X 3-DC	3	.433	.125	28	5/16	3/8	BUB-300-DC
3/4-10 Threads							
TBU-0755-DC	1	.551	.125	28	3/8	1/2	BUB-500-DC
TBU-0755 X 2-DC	2	.551	.125	28	3/8	1/2	BUB-500-DC
TBU-0755 X 3-DC	3	.551	.125	28	3/8	1/2	BUB-500-DC
3/4-16 Threads							
TBU-0750-DC	1	.551	.125	28	3/8	1/2	BUB-500-DC
TBU-0750 X 2-DC	2	.551	.125	28	3/8	1/2	BUB-500-DC
TBU-0750 X 3-DC	3	.551	.125	28	3/8	1/2	BUB-500-DC
1"-8 Threads							
TBU-1108-DC	1	.748	.156	32	3/8	5/8	BUB-600-DC
TBU-1108 X 2-DC	2	.748	.156	32	3/8	5/8	BUB-600-DC
TBU-1108 X 3-DC	3	.748	.156	32	3/8	5/8	BUB-600-DC
1"-14 Threads							
TBU-1114-DC	1	.827	.156	32	3/8	3/4	BUB-700-DC
TBU-1114 X 2-DC	2	.827	.156	32	3/8	3/4	BUB-700-DC
TBU-1114 X 3-DC	3	.827	.156	32	3/8	3/4	BUB-700-DC

Threaded Body Delrin Ball – Flat Cone – Inch & Metric (continued)



METRIC

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Ball Only Part #
M10x1.5 Threads							
MTBU-10025-DC	25	6	1.5	28	5	5	MBUB-050-DC
MTBU-10035-DC	35	6	1.5	28	5	5	MBUB-050-DC
MTBU-10050-DC	50	6	1.5	28	5	5	MBUB-050-DC
M12x1.75 Threads							
MTBU-12025-DC	25	8	2	28	6	7	MBUB-070-DC
MTBU-12035-DC	35	8	2	28	6	7	MBUB-070-DC
MTBU-12050-DC	50	8	2	28	6	7	MBUB-070-DC
M16x2.0 Threads							
MTBU-16025-DC	25	11	3	28	8	10	MBUB-100-DC
MTBU-16035-DC	35	11	3	28	8	10	MBUB-100-DC
MTBU-16050-DC	50	11	3	28	8	10	MBUB-100-DC
M20x2.5 Threads							
MTBU-20030-DC	30	14	3	28	10	13	MBUB-130-DC
MTBU-20050-DC	50	14	3	28	10	13	MBUB-130-DC
MTBU-20070-DC	70	14	3	28	10	13	MBUB-130-DC
M24x3.0 Threads							
MTBU-24040-DC	40	19	4	24	10	15	MBUB-150-DC
MTBU-24080-DC	80	19	4	24	10	15	MBUB-150-DC

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Threaded Body Stainless Ball – Flat Cone – Inch & Metric

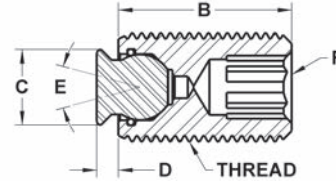
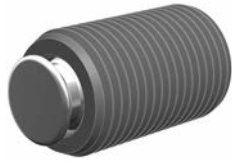


The replaceable ball swivels to allow for self-alignment on uneven surfaces. The flat cone design provides a large contact surface for greater force distribution. A Viton O-ring holds the ball in place while keeping contaminants out and providing smooth ball movement. The housing is made from alloy steel, heat treated to Rc 43/46 with black oxide finish. The replaceable ball is made from 300 series stainless steel. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs.
3/8-16 Threads								
TBU-0370-FC	1/2	.236	.063	28	3/16	3/16	BUB-187-FC	1,763
TBU-0375-FC	1	.236	.063	28	3/16	3/16	BUB-187-FC	1,763
TBU-0375 X 2-FC	2	.236	.063	28	3/16	3/16	BUB-187-FC	1,763
TBU-0375 X 3-FC	3	.236	.063	28	3/16	3/16	BUB-187-FC	1,763
3/8-24 Threads								
TBU-0230-FC	1/2	.236	.063	28	3/16	3/16	BUB-187-FC	1,763
TBU-0231-FC	1	.236	.063	28	3/16	3/16	BUB-187-FC	1,763
TBU-0231 X 2-FC	2	.236	.063	28	3/16	3/16	BUB-187-FC	1,763
TBU-0231 X 3-FC	3	.236	.063	28	3/16	3/16	BUB-187-FC	1,763
1/2-13 Threads								
TBU-0513-FC	3/4	.315	.094	28	1/4	9/32	BUB-200-FC	4,527
TBU-0510-FC	1	.315	.094	28	1/4	9/32	BUB-200-FC	4,527
TBU-0510 X 2-FC	2	.315	.094	28	1/4	9/32	BUB-200-FC	4,527
TBU-0510 X 3-FC	3	.315	.094	28	1/4	9/32	BUB-200-FC	4,527
1/2-20 Threads								
TBU-0503-FC	3/4	.315	.094	28	1/4	9/32	BUB-200-FC	4,527
TBU-0500-FC	1	.315	.094	28	1/4	9/32	BUB-200-FC	4,527
TBU-0500 X 2-FC	2	.315	.094	28	1/4	9/32	BUB-200-FC	4,527
TBU-0500 X 3-FC	3	.315	.094	28	1/4	9/32	BUB-200-FC	4,527
5/8-11 Threads								
TBU-0625-FC	1	.433	.125	28	5/16	3/8	BUB-300-FC	6,131
TBU-0625 X 2-FC	2	.433	.125	28	5/16	3/8	BUB-300-FC	6,131
TBU-0625 X 3-FC	3	.433	.125	28	5/16	3/8	BUB-300-FC	6,131
5/8-18 Threads								
TBU-0620-FC	1	.433	.125	28	5/16	3/8	BUB-300-FC	6,131
TBU-0620 X 2-FC	2	.433	.125	28	5/16	3/8	BUB-300-FC	6,131
TBU-0620 X 3-FC	3	.433	.125	28	5/16	3/8	BUB-300-FC	6,131
3/4-10 Threads								
TBU-0755-FC	1	.551	.125	28	3/8	1/2	BUB-500-FC	8,150
TBU-0755 X 2-FC	2	.551	.125	28	3/8	1/2	BUB-500-FC	8,150
TBU-0755 X 3-FC	3	.551	.125	28	3/8	1/2	BUB-500-FC	8,150
3/4-16 Threads								
TBU-0750-FC	1	.551	.125	28	3/8	1/2	BUB-500-FC	8,150
TBU-0750 X 2-FC	2	.551	.125	28	3/8	1/2	BUB-500-FC	8,150
TBU-0750 X 3-FC	3	.551	.125	28	3/8	1/2	BUB-500-FC	8,150
1"-8 Threads								
TBU-1108-FC	1	.748	.156	32	3/8	5/8	BUB-600-FC	14,757
TBU-1108 X 2-FC	2	.748	.156	32	3/8	5/8	BUB-600-FC	14,757
TBU-1108 X 3-FC	3	.748	.156	32	3/8	5/8	BUB-600-FC	14,757
1"-14 Threads								
TBU-1114-FC	1	.827	.156	32	3/8	3/4	BUB-700-FC	17,210
TBU-1114 X 2-FC	2	.827	.156	32	3/8	3/4	BUB-700-FC	17,210
TBU-1114 X 3-FC	3	.827	.156	32	3/8	3/4	BUB-700-FC	17,210

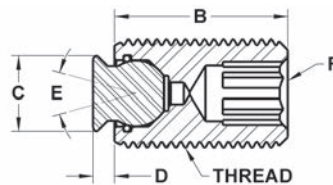
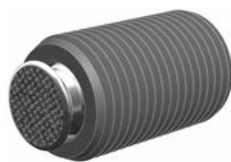
Threaded Body Stainless Ball – Flat Cone – Inch & Metric (continued)



METRIC								
Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs.
M10x1.5 Threads								
MTBU-10025-FC	25	6	1.5	28	5	5	MBUB-050-FC	—
MTBU-10035-FC	35	6	1.5	28	5	5	MBUB-050-FC	—
MTBU-10050-FC	50	6	1.5	28	5	5	MBUB-050-FC	—
M12x1.75 Threads								
MTBU-12025-FC	25	8	2	28	6	7	MBUB-070-FC	3,440
MTBU-12035-FC	35	8	2	28	6	7	MBUB-070-FC	3,440
MTBU-12050-FC	50	8	2	28	6	7	MBUB-070-FC	3,440
M16x2.0 Threads								
MTBU-16025-FC	25	11	3	28	8	10	MBUB-100-FC	5,190
MTBU-16035-FC	35	11	3	28	8	10	MBUB-100-FC	5,190
MTBU-16050-FC	50	11	3	28	8	10	MBUB-100-FC	5,190
M20x2.5 Threads								
MTBU-20030-FC	30	14	3	28	10	13	MBUB-130-FC	8,379
MTBU-20050-FC	50	14	3	28	10	13	MBUB-130-FC	8,379
MTBU-20070-FC	70	14	3	28	10	13	MBUB-130-FC	8,379
M24x3.0 Threads								
MTBU-24040-FC	40	19	4	24	10	15	MBUB-150-FC	12,233
MTBU-24080-FC	80	19	4	24	10	15	MBUB-150-FC	12,233

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Threaded Body Stainless Ball – Abrasive Diamond Surface – Inch & Metric

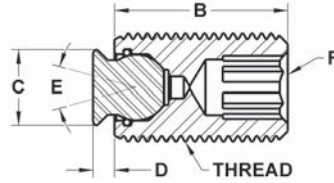


The replaceable ball swivels to allow for self-alignment on uneven surfaces. A Viton O-ring holds the ball in place while keeping contaminants out and providing smooth ball movement. The housing is made from alloy steel, heat treated to Rc 43/46 with black oxide finish. The abrasive surface is permanently fused to a 300 series stainless steel pad. The surface texture is comparable to a 100 grit abrasive. They are ideal for holding smooth or slippery applications with a minimum of clamping pressure. Individual diamond particles transfer holding pressure to a very small and well distributed area, providing superior holding with minimal surface marking. The diamond surface provides unparalleled wear resistance. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs.
3/8-16 Threads								
TBU-0370-FC-DS	1/2	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TBU-0375-FC-DS	1	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TBU-0375 X 2-FC-DS	2	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TBU-0375 X 3-FC-DS	3	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
3/8-24 Threads								
TBU-0230-FC-DS	1/2	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TBU-0231-FC-DS	1	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TBU-0231 X 2-FC-DS	2	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TBU-0231 X 3-FC-DS	3	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
1/2-13 Threads								
TBU-0513-FC-DS	3/4	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
TBU-0510-FC-DS	1	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
TBU-0510 X 2-FC-DS	2	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
TBU-0510 X 3-FC-DS	3	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
1/2-20 Threads								
TBU-0503-FC-DS	3/4	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
TBU-0500-FC-DS	1	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
TBU-0500 X 2-FC-DS	2	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
TBU-0500 X 3-FC-DS	3	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
5/8-11 Threads								
TBU-0625-FC-DS	1	.433	.125	28	5/16	3/8	BUB-300-FC-DS	6,131
TBU-0625 X 2-FC-DS	2	.433	.125	28	5/16	3/8	BUB-300-FC-DS	6,131
TBU-0625 X 3-FC-DS	3	.433	.125	28	5/16	3/8	BUB-300-FC-DS	6,131
5/8-18 Threads								
TBU-0620-FC-DS	1	.433	.125	28	5/16	3/8	BUB-300-FC-DS	6,131
TBU-0620 X 2-FC-DS	2	.433	.125	28	5/16	3/8	BUB-300-FC-DS	6,131
TBU-0620 X 3-FC-DS	3	.433	.125	28	5/16	3/8	BUB-300-FC-DS	6,131
3/4-10 Threads								
TBU-0755-FC-DS	1	.551	.125	28	3/8	1/2	BUB-500-FC-DS	8,150
TBU-0755 X 2-FC-DS	2	.551	.125	28	3/8	1/2	BUB-500-FC-DS	8,150
TBU-0755 X 3-FC-DS	3	.551	.125	28	3/8	1/2	BUB-500-FC-DS	8,150
3/4-16 Threads								
TBU-0750-FC-DS	1	.551	.125	28	3/8	1/2	BUB-500-FC-DS	8,150
TBU-0750 X 2-FC-DS	2	.551	.125	28	3/8	1/2	BUB-500-FC-DS	8,150
TBU-0750 X 3-FC-DS	3	.551	.125	28	3/8	1/2	BUB-500-FC-DS	8,150
1"-8 Threads								
TBU-1108-FC-DS	1	.748	.156	32	3/8	5/8	BUB-600-FC-DS	14,757
TBU-1108 X 2-FC-DS	2	.748	.156	32	3/8	5/8	BUB-600-FC-DS	14,757
TBU-1108 X 3-FC-DS	3	.748	.156	32	3/8	5/8	BUB-600-FC-DS	14,757
1"-14 Threads								
TBU-1114-FC-DS	1	.827	.156	32	3/8	3/4	BUB-700-FC-DS	17,210
TBU-1114 X 2-FC-DS	2	.827	.156	32	3/8	3/4	BUB-700-FC-DS	17,210
TBU-1114 X 3-FC-DS	3	.827	.156	32	3/8	3/4	BUB-700-FC-DS	17,210

Threaded Body Stainless Ball – Abrasive Diamond Surface – Inch & Metric (cont)



METRIC

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs.
M10x1.5 Threads								
MTBU-10025-FC-DS	25	6	1.5	28	5	5	MBUB-050-FC-DS	—
MTBU-10035-FC-DS	35	6	1.5	28	5	5	MBUB-050-FC-DS	—
MTBU-10050-FC-DS	50	6	1.5	28	5	5	MBUB-050-FC-DS	—
M12x1.75 Threads								
MTBU-12025-FC-DS	25	8	2	28	6	7	MBUB-070-FC-DS	3,440
MTBU-12035-FC-DS	35	8	2	28	6	7	MBUB-070-FC-DS	3,440
MTBU-12050-FC-DS	50	8	2	28	6	7	MBUB-070-FC-DS	3,440
M16x2.0 Threads								
MTBU-16025-FC-DS	25	11	3	28	8	10	MBUB-100-FC-DS	5,190
MTBU-16035-FC-DS	35	11	3	28	8	10	MBUB-100-FC-DS	5,190
MTBU-16050-FC-DS	50	11	3	28	8	10	MBUB-100-FC-DS	5,190
M20x2.5 Threads								
MTBU-20030-FC-DS	30	14	3	28	10	13	MBUB-130-FC-DS	8,379
MTBU-20050-FC-DS	50	14	3	28	10	13	MBUB-130-FC-DS	8,379
MTBU-20070-FC-DS	70	14	3	28	10	13	MBUB-130-FC-DS	8,379
M24x3.0 Threads								
MTBU-24040-FC-DS	40	19	4	24	10	15	MBUB-150-FC-DS	12,233
MTBU-24080-FC-DS	80	19	4	24	10	15	MBUB-150-FC-DS	12,233

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Replaceable Ball Thrust Screw Assembly

These Replaceable Ball Thrust Screw Assemblies are found on the following pages.

REPLACEABLE BALLS

Sof-Top Cone
Urethane Surface
Stainless



Flat Cone
Delrin



Flat Cone
Stainless



Abrasive Diamond Cone
Stainless



Serrated
Tool Steel



Round Ball
Stainless



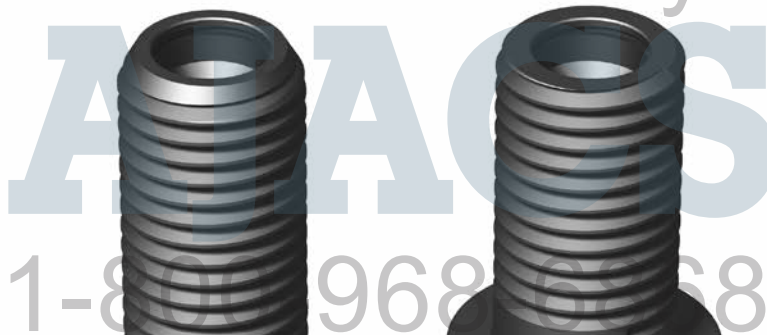
Round Ball
Delrin



VITON O-RING



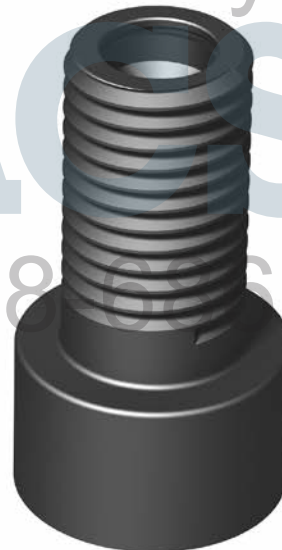
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HOUSINGS



Threaded Body Design



Socket Head Design

Tightening Torque Calculator

To calculate the approximate tightening torque (in/lb) required to achieve a required force, multiply the force by the appropriate factor listed below. Assumes no lubrication threaded into steel. Use as a guideline only.

Inch			
Thread	Factor	Thread	Factor
#10-24	0.036	1/2-13	0.093
#10-32	0.035	1/2-20	0.091
1/4-20	0.047	5/8-11	0.116
1/4-28	0.046	5/8-18	0.113
5/16-18	0.059	3/4-10	0.138
5/16-24	0.058	3/4-16	0.135
3/8-16	0.070	1-8	0.183
3/8-24	0.068	1-14	0.180

Metric			
Thread	Factor	Thread	Factor
M6x1.00	0.044	M16x2.00	0.116
M8x1.25	0.058	M20x2.50	0.144
M10x1.50	0.073	M24x3.00	0.173
M12x1.75	0.087		

- These Replaceable Ball Thrust Screw Assemblies are a modular component system that allows the ball to swivel, tilt, pivot, grip, hold, position or secure work pieces.
- The different housing styles allows for a variety of mounting options.
- Unique design prevents the ball from exceeding the specified degree of swivel -preventing the ball from rolling over in the housing.
- The replaceable ball can be changed when it is worn or another style is needed for a job.
- The ball is held in place with a Viton O-ring which allows for smooth movement and keeps out dirt and other contaminants.
- Replacement balls and o-rings can be ordered separately. It is recommended the o-ring be replaced when the ball is replaced.

Threaded Body Stainless Ball – Sof-Top Urethane Surface – Inch



These thrust screw assemblies allow straight line static load thrust without transmitting torsional or radial force on to the contact area. The free floating ball design allows the thrust screw to continue to rotate while the ball remains stationary against the contact surface. Ideal for irregular shaped or contoured applications. The housing is made from alloy steel, heat treated to Rc 43/46 with a black oxide finish. The replaceable ball is held in place with a viton O-ring which keeps contaminants out and allows the ball to swivel. The urethane surface is permanently bonded to a 300 series stainless steel ball. The non-marking, non-staining urethane provides excellent protection against damage on delicate work surfaces. The "bubbled" texture of the urethane top offers firm holding and allows air to escape so no suction is created between the contact surface and the top of the rest pad as it is compressed. Because the top is made of urethane it offers superior abrasion and wear resistance. They are available in three durometers to meet a wide variety of application needs. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Durometer	Ball Only Part #
3/8-16 Threads								
TST-0370-FC-35UR	1/2	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TST-0370-FC-60UR	1/2	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TST-0370-FC-80UR	1/2	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TST-0375 X .75-FC-35UR	3/4	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TST-0375 X .75-FC-60UR	3/4	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TST-0375 X .75-FC-80UR	3/4	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TST-0375-FC-35UR	1	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TST-0375-FC-60UR	1	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TST-0375-FC-80UR	1	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TST-0375 X 1.5-FC-35UR	1-1/2	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TST-0375 X 1.5-FC-60UR	1-1/2	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TST-0375 X 1.5-FC-80UR	1-1/2	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TST-0375 X 2-FC-35UR	2	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TST-0375 X 2-FC-60UR	2	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TST-0375 X 2-FC-80UR	2	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TST-0375 X 3-FC-35UR	3	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TST-0375 X 3-FC-60UR	3	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TST-0375 X 3-FC-80UR	3	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
3/8-24 Threads								
TST-0230-FC-35UR	1/2	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TST-0230-FC-60UR	1/2	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TST-0230-FC-80UR	1/2	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TST-0230 X .75-FC-35UR	3/4	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TST-0230 X .75-FC-60UR	3/4	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TST-0230 X .75-FC-80UR	3/4	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TST-0231-FC-35UR	1	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TST-0231-FC-60UR	1	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TST-0231-FC-80UR	1	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TST-0231 X 1.5-FC-35UR	1-1/2	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TST-0231 X 1.5-FC-60UR	1-1/2	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TST-0231 X 1.5-FC-80UR	1-1/2	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TST-0231 X 2-FC-35UR	2	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TST-0231 X 2-FC-60UR	2	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TST-0231 X 2-FC-80UR	2	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR
TST-0231 X 3-FC-35UR	3	.315	.143	28	3/16	3/16	35	BUB-187-FC-35UR
TST-0231 X 3-FC-60UR	3	.315	.143	28	3/16	3/16	60	BUB-187-FC-60UR
TST-0231 X 3-FC-80UR	3	.315	.143	28	3/16	3/16	80	BUB-187-FC-80UR

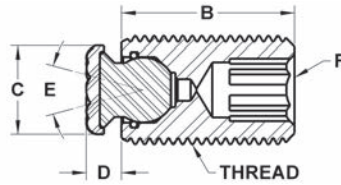
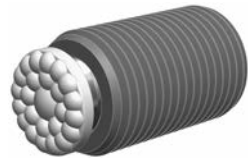
Threaded Body Stainless Ball – Sof-Top Urethane Surface – Inch (continued)



INCH (CONTINUED)

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Durometer	Ball Only Part #
1/2-13 Threads								
TST-0513-FC-35UR	3/4	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TST-0513-FC-60UR	3/4	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TST-0513-FC-80UR	3/4	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
TST-0510-FC-35UR	1	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TST-0510-FC-60UR	1	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TST-0510-FC-80UR	1	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
TST-0510 X 1.5-FC-35UR	1-1/2	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TST-0510 X 1.5-FC-60UR	1-1/2	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TST-0510 X 1.5-FC-80UR	1-1/2	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
TST-0510 X 2-FC-35UR	2	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TST-0510 X 2-FC-60UR	2	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TST-0510 X 2-FC-80UR	2	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
TST-0510 X 3-FC-35UR	3	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TST-0510 X 3-FC-60UR	3	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TST-0510 X 3-FC-80UR	3	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
1/2-20 Threads								
TST-0503-FC-35UR	3/4	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TST-0503-FC-60UR	3/4	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TST-0503-FC-80UR	3/4	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
TST-0500-FC-35UR	1	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TST-0500-FC-60UR	1	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TST-0500-FC-80UR	1	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
TST-0500 X 1.5-FC-35UR	1-1/2	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TST-0500 X 1.5-FC-60UR	1-1/2	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TST-0500 X 1.5-FC-80UR	1-1/2	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
TST-0500 X 2-FC-35UR	2	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TST-0500 X 2-FC-60UR	2	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TST-0500 X 2-FC-80UR	2	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
TST-0500 X 3-FC-35UR	3	.394	.174	28	1/4	9/32	35	BUB-200-FC-35UR
TST-0500 X 3-FC-60UR	3	.394	.174	28	1/4	9/32	60	BUB-200-FC-60UR
TST-0500 X 3-FC-80UR	3	.394	.174	28	1/4	9/32	80	BUB-200-FC-80UR
5/8-11 Threads								
TST-0625-FC-35UR	1	.512	.205	28	5/16	3/8	35	BUB-300-FC-35UR
TST-0625-FC-60UR	1	.512	.205	28	5/16	3/8	60	BUB-300-FC-60UR
TST-0625-FC-80UR	1	.512	.205	28	5/16	3/8	80	BUB-300-FC-80UR
TST-0625 X 2-FC-35UR	2	.512	.205	28	5/16	3/8	35	BUB-300-FC-35UR
TST-0625 X 2-FC-60UR	2	.512	.205	28	5/16	3/8	60	BUB-300-FC-60UR
TST-0625 X 2-FC-80UR	2	.512	.205	28	5/16	3/8	80	BUB-300-FC-80UR
TST-0625 X 3-FC-35UR	3	.512	.205	28	5/16	3/8	35	BUB-300-FC-35UR
TST-0625 X 3-FC-60UR	3	.512	.205	28	5/16	3/8	60	BUB-300-FC-60UR
TST-0625 X 3-FC-80UR	3	.512	.205	28	5/16	3/8	80	BUB-300-FC-80UR
5/8-18 Threads								
TST-0620-FC-35UR	1	.512	.205	28	5/16	3/8	35	BUB-300-FC-35UR
TST-0620-FC-60UR	1	.512	.205	28	5/16	3/8	60	BUB-300-FC-60UR
TST-0620-FC-80UR	1	.512	.205	28	5/16	3/8	80	BUB-300-FC-80UR
TST-0620 X 2-FC-35UR	2	.512	.205	28	5/16	3/8	35	BUB-300-FC-35UR
TST-0620 X 2-FC-60UR	2	.512	.205	28	5/16	3/8	60	BUB-300-FC-60UR
TST-0620 X 2-FC-80UR	2	.512	.205	28	5/16	3/8	80	BUB-300-FC-80UR
TST-0620 X 3-FC-35UR	3	.512	.205	28	5/16	3/8	35	BUB-300-FC-35UR
TST-0620 X 3-FC-60UR	3	.512	.205	28	5/16	3/8	60	BUB-300-FC-60UR
TST-0620 X 3-FC-80UR	3	.512	.205	28	5/16	3/8	80	BUB-300-FC-80UR

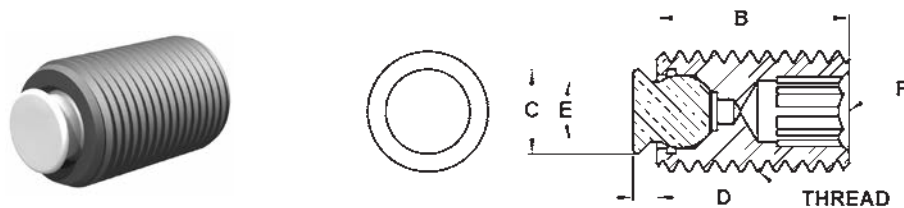
Threaded Body Stainless Ball – Sof-Top Urethane Surface – Inch (continued)



INCH (CONTINUED)

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Durometer	Ball Only Part #
3/4-10 Threads								
TST-0755-FC-35UR	1	.630	.205	28	3/8	1/2	35	BUB-500-FC-35UR
TST-0755-FC-60UR	1	.630	.205	28	3/8	1/2	60	BUB-500-FC-60UR
TST-0755-FC-80UR	1	.630	.205	28	3/8	1/2	80	BUB-500-FC-80UR
TST-0755 X 2-FC-35UR	2	.630	.205	28	3/8	1/2	35	BUB-500-FC-35UR
TST-0755 X 2-FC-60UR	2	.630	.205	28	3/8	1/2	60	BUB-500-FC-60UR
TST-0755 X 2-FC-80UR	2	.630	.205	28	3/8	1/2	80	BUB-500-FC-80UR
TST-0755 X 3-FC-35UR	3	.630	.205	28	3/8	1/2	35	BUB-500-FC-35UR
TST-0755 X 3-FC-60UR	3	.630	.205	28	3/8	1/2	60	BUB-500-FC-60UR
TST-0755 X 3-FC-80UR	3	.630	.205	28	3/8	1/2	80	BUB-500-FC-80UR
3/4-16 Threads								
TST-0750-FC-35UR	1	.630	.205	28	3/8	1/2	35	BUB-500-FC-35UR
TST-0750-FC-60UR	1	.630	.205	28	3/8	1/2	60	BUB-500-FC-60UR
TST-0750-FC-80UR	1	.630	.205	28	3/8	1/2	80	BUB-500-FC-80UR
TST-0750 X 2-FC-35UR	2	.630	.205	28	3/8	1/2	35	BUB-500-FC-35UR
TST-0750 X 2-FC-60UR	2	.630	.205	28	3/8	1/2	60	BUB-500-FC-60UR
TST-0750 X 2-FC-80UR	2	.630	.205	28	3/8	1/2	80	BUB-500-FC-80UR
TST-0750 X 3-FC-35UR	3	.630	.205	28	3/8	1/2	35	BUB-500-FC-35UR
TST-0750 X 3-FC-60UR	3	.630	.205	28	3/8	1/2	60	BUB-500-FC-60UR
TST-0750 X 3-FC-80UR	3	.630	.205	28	3/8	1/2	80	BUB-500-FC-80UR
1"-8 Threads								
TST-1108-FC-35UR	1	.827	.236	32	3/8	5/8	35	BUB-600-FC-35UR
TST-1108-FC-60UR	1	.827	.236	32	3/8	5/8	60	BUB-600-FC-60UR
TST-1108-FC-80UR	1	.827	.236	32	3/8	5/8	80	BUB-600-FC-80UR
TST-1108 X 2-FC-35UR	2	.827	.236	32	3/8	5/8	35	BUB-600-FC-35UR
TST-1108 X 2-FC-60UR	2	.827	.236	32	3/8	5/8	60	BUB-600-FC-60UR
TST-1108 X 2-FC-80UR	2	.827	.236	32	3/8	5/8	80	BUB-600-FC-80UR
TST-1108 X 3-FC-35UR	3	.827	.236	32	3/8	5/8	35	BUB-600-FC-35UR
TST-1108 X 3-FC-60UR	3	.827	.236	32	3/8	5/8	60	BUB-600-FC-60UR
TST-1108 X 3-FC-80UR	3	.827	.236	32	3/8	5/8	80	BUB-600-FC-80UR
1"-14 Threads								
TST-1114-FC-35UR	1	.906	.236	32	3/8	3/4	35	BUB-700-FC-35UR
TST-1114-FC-60UR	1	.906	.236	32	3/8	3/4	60	BUB-700-FC-60UR
TST-1114-FC-80UR	1	.906	.236	32	3/8	3/4	80	BUB-700-FC-80UR
TST-1114 X 2-FC-35UR	2	.906	.236	32	3/8	3/4	35	BUB-700-FC-35UR
TST-1114 X 2-FC-60UR	2	.906	.236	32	3/8	3/4	60	BUB-700-FC-60UR
TST-1114 X 2-FC-80UR	2	.906	.236	32	3/8	3/4	80	BUB-700-FC-80UR
TST-1114 X 3-FC-35UR	3	.906	.236	32	3/8	3/4	35	BUB-700-FC-35UR
TST-1114 X 3-FC-60UR	3	.906	.236	32	3/8	3/4	60	BUB-700-FC-60UR
TST-1114 X 3-FC-80UR	3	.906	.236	32	3/8	3/4	80	BUB-700-FC-80UR

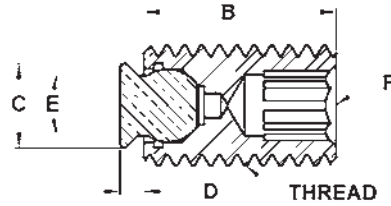
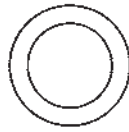
Threaded Body Delrin Ball – Flat Cone – Inch



These thrust screw assemblies allow straight line static load thrust without transmitting torsional or radial force on to the contact area. The free floating ball design allows the thrust screw to continue to rotate while the ball remains stationary against the contact surface. Ideal for irregular shaped or contoured applicaitons. The housing is made from alloy steel, heat treated to Rc 43/46 with a black oxide finish. The replaceable ball is held in place with a viton O-ring which keeps contaminants out and allows the ball to swivel. The ball is made from non-marring white delrin and ground flat. Replacement balls and O-rings can be ordered separately.

INCH							
Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Ball Only Part #
1/4-20 Threads							
TST-0250-DC	1/2	9/64	1/16	30	1/8	1/8	BUB-125-DC
TST-0251-DC	3/4	9/64	1/16	30	1/8	1/8	BUB-125-DC
TST-0251 X 1-DC	1	9/64	1/16	30	1/8	1/8	BUB-125-DC
1/4-28 Threads							
TST-0280-DC	1/2	9/64	1/16	30	1/8	1/8	BUB-125-DC
TST-0281-DC	3/4	9/64	1/16	30	1/8	1/8	BUB-125-DC
TST-0281 X 1-DC	1	9/64	1/16	30	1/8	1/8	BUB-125-DC
5/16-18 Threads							
TST-0310-DC	1/2	13/64	1/16	30	5/32	5/32	BUB-156-DC
TST-0312-DC	3/4	13/64	1/16	30	5/32	5/32	BUB-156-DC
TST-0312 X 1-DC	1	13/64	1/16	30	5/32	5/32	BUB-156-DC
TST-0312 X 1.5-DC	1-1/2	13/64	1/16	30	5/32	5/32	BUB-156-DC
5/16-24 Threads							
TST-0320-DC	1/2	13/64	1/16	30	5/32	5/32	BUB-156-DC
TST-0321-DC	3/4	13/64	1/16	30	5/32	5/32	BUB-156-DC
TST-0321 X 1-DC	1	13/64	1/16	30	5/32	5/32	BUB-156-DC
TST-0321 X 1.5-DC	1-1/2	13/64	1/16	30	5/32	5/32	BUB-156-DC
3/8-16 Threads							
TST-0370-DC	1/2	1/4	3/32	28	3/16	3/16	BUB-187-DC
TST-0370 X .75-DC	3/4	1/4	3/32	28	3/16	3/16	BUB-187-DC
TST-0375-DC	1	1/4	3/32	28	3/16	3/16	BUB-187-DC
TST-0375 X 1.5-DC	1-1/2	1/4	3/32	28	3/16	3/16	BUB-187-DC
TST-0375 X 2-DC	2	1/4	3/32	28	3/16	3/16	BUB-187-DC
TST-0375 X 3-DC	3	1/4	3/32	28	3/16	3/16	BUB-187-DC
3/8-24 Threads							
TST-0230-DC	1/2	1/4	3/32	28	3/16	3/16	BUB-187-DC
TST-0230 X .75-DC	3/4	1/4	3/32	28	3/16	3/16	BUB-187-DC
TST-0231-DC	1	1/4	3/32	28	3/16	3/16	BUB-187-DC
TST-0231 X 1.5-DC	1-1/2	1/4	3/32	28	3/16	3/16	BUB-187-DC
TST-0231 X 2-DC	2	1/4	3/32	28	3/16	3/16	BUB-187-DC
TST-0231 X 3-DC	3	1/4	3/32	28	3/16	3/16	BUB-187-DC
1/2-13 Threads							
TST-0513-DC	3/4	11/32	3/32	28	1/4	9/32	BUB-200-DC
TST-0510-DC	1	11/32	3/32	28	1/4	9/32	BUB-200-DC
TST-0510 X 1.5-DC	1-1/2	11/32	3/32	28	1/4	9/32	BUB-200-DC
TST-0510 X 2-DC	2	11/32	3/32	28	1/4	9/32	BUB-200-DC
TST-0510 X 3-DC	3	11/32	3/32	28	1/4	9/32	BUB-200-DC
1/2-20 Threads							
TST-0503-DC	3/4	11/32	3/32	28	1/4	9/32	BUB-200-DC
TST-0500-DC	1	11/32	3/32	28	1/4	9/32	BUB-200-DC
TST-0500 X 1.5-DC	1-1/2	11/32	3/32	28	1/4	9/32	BUB-200-DC
TST-0500 X 2-DC	2	11/32	3/32	28	1/4	9/32	BUB-200-DC
TST-0500 X 3-DC	3	11/32	3/32	28	1/4	9/32	BUB-200-DC

Threaded Body Delrin Ball – Flat Cone – Inch (continued)

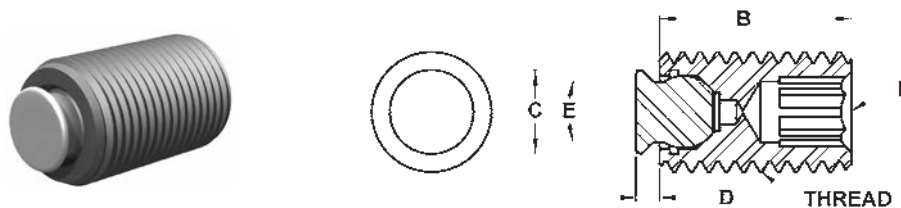


INCH (CONTINUED)

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Ball Only Part #
5/8-11 Threads							
TST-0625-DC	1	7/16	1/8	28	5/16	3/8	BUB-300-DC
TST-0625 X 2-DC	2	7/16	1/8	28	5/16	3/8	BUB-300-DC
TST-0625 X 3-DC	3	7/16	1/8	28	5/16	3/8	BUB-300-DC
5/8-18 Threads							
TST-0620-DC	1	7/16	1/8	28	5/16	3/8	BUB-300-DC
TST-0620 X 2-DC	2	7/16	1/8	28	5/16	3/8	BUB-300-DC
TST-0620 X 3-DC	3	7/16	1/8	28	5/16	3/8	BUB-300-DC
3/4-10 Threads							
TST-0755-DC	1	33/64	1/8	28	3/8	1/2	BUB-500-DC
TST-0755 X 2-DC	2	33/64	1/8	28	3/8	1/2	BUB-500-DC
TST-0755 X 3-DC	3	33/64	1/8	28	3/8	1/2	BUB-500-DC
3/4-16 Threads							
TST-0750-DC	1	33/64	1/8	28	3/8	1/2	BUB-500-DC
TST-0750 X 2-DC	2	33/64	1/8	28	3/8	1/2	BUB-500-DC
TST-0750 X 3-DC	3	33/64	1/8	28	3/8	1/2	BUB-500-DC
1"-8 Threads							
TST-1108-DC	1	11/16	5/32	32	3/8	5/8	BUB-600-DC
TST-1108 X 2-DC	2	11/16	5/32	32	3/8	5/8	BUB-600-DC
TST-1108 X 3-DC	3	11/16	5/32	32	3/8	5/8	BUB-600-DC
1"-14 Threads							
TST-1114-DC	1	49/64	5/32	32	3/8	3/4	BUB-700-DC
TST-1114 X 2-DC	2	49/64	5/32	32	3/8	3/4	BUB-700-DC
TST-1114 X 3-DC	3	49/64	5/32	32	3/8	3/4	BUB-700-DC

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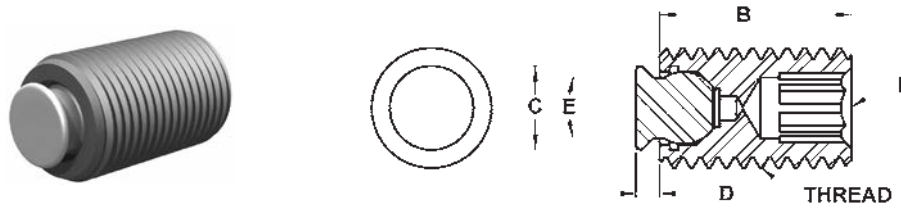
Threaded Body Stainless Ball – Flat Cone – Inch



These thrust screw assemblies allow straight line static load thrust without transmitting torsional or radial force on to the contact area. The free floating ball design allows the thrust screw to continue to rotate while the ball remains stationary against the contact surface. Ideal for irregular shaped or contoured applications. The housing is made from alloy steel, heat treated to Rc 43/46 with a black oxide finish. The replaceable ball is held in place with a viton O-ring which keeps contaminants out and allows the ball to swivel. The flat ball is made from 303 stainless steel. Replacement balls and O-rings can be ordered separately.

INCH								
Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs.
1/4-20 Threads								
TST-0250-FC	1/2	9/64	1/16	30	1/8	1/8	BUB-125-FC	—
TST-0251-FC	3/4	9/64	1/16	30	1/8	1/8	BUB-125-FC	—
TST-0251 X 1-FC	1	9/64	1/16	30	1/8	1/8	BUB-125-FC	—
1/4-28 Threads								
TST-0280-FC	1/2	9/64	1/16	30	1/8	1/8	BUB-125-FC	—
TST-0281-FC	3/4	9/64	1/16	30	1/8	1/8	BUB-125-FC	—
TST-0281 X 1-FC	1	9/64	1/16	30	1/8	1/8	BUB-125-FC	—
5/16-18 Threads								
TST-0310-FC	1/2	13/64	1/16	30	5/32	5/32	BUB-156-FC	—
TST-0312-FC	3/4	13/64	1/16	30	5/32	5/32	BUB-156-FC	—
TST-0312 X 1-FC	1	13/64	1/16	30	5/32	5/32	BUB-156-FC	—
TST-0312 X 1.5-FC	1-1/2	13/64	1/16	30	5/32	5/32	BUB-156-FC	—
5/16-24 Threads								
TST-0320-FC	1/2	13/64	1/16	30	5/32	5/32	BUB-156-FC	—
TST-0321-FC	3/4	13/64	1/16	30	5/32	5/32	BUB-156-FC	—
TST-0321 X 1-FC	1	13/64	1/16	30	5/32	5/32	BUB-156-FC	—
TST-0321 X 1.5-FC	1-1/2	13/64	1/16	30	5/32	5/32	BUB-156-FC	—
3/8-16 Threads								
TST-0370-FC	1/2	1/4	3/32	28	3/16	3/16	BUB-187-FC	1,763
TST-0370 X .75-FC	3/4	1/4	3/32	28	3/16	3/16	BUB-187-FC	1,763
TST-0375-FC	1	1/4	3/32	28	3/16	3/16	BUB-187-FC	1,763
TST-0375 X 1.5-FC	1-1/2	1/4	3/32	28	3/16	3/16	BUB-187-FC	1,763
TST-0375 X 2-FC	2	1/4	3/32	28	3/16	3/16	BUB-187-FC	1,763
TST-0375 X 3-FC	3	1/4	3/32	28	3/16	3/16	BUB-187-FC	1,763
3/8-24 Threads								
TST-0230-FC	1/2	1/4	3/32	28	3/16	3/16	BUB-187-FC	1,763
TST-0230 X .75-FC	3/4	1/4	3/32	28	3/16	3/16	BUB-187-FC	1,763
TST-0231-FC	1	1/4	3/32	28	3/16	3/16	BUB-187-FC	1,763
TST-0231 X 1.5-FC	1-1/2	1/4	3/32	28	3/16	3/16	BUB-187-FC	1,763
TST-0231 X 2-FC	2	1/4	3/32	28	3/16	3/16	BUB-187-FC	1,763
TST-0231 X 3-FC	3	1/4	3/32	28	3/16	3/16	BUB-187-FC	1,763
1/2-13 Threads								
TST-0513-FC	3/4	11/32	3/32	28	1/4	9/32	BUB-200-FC	4,527
TST-0510-FC	1	11/32	3/32	28	1/4	9/32	BUB-200-FC	4,527
TST-0510 X 1.5-FC	1-1/2	11/32	3/32	28	1/4	9/32	BUB-200-FC	4,527
TST-0510 X 2-FC	2	11/32	3/32	28	1/4	9/32	BUB-200-FC	4,527
TST-0510 X 3-FC	3	11/32	3/32	28	1/4	9/32	BUB-200-FC	4,527
1/2-20 Threads								
TST-0503-FC	3/4	11/32	3/32	28	1/4	9/32	BUB-200-FC	4,527
TST-0500-FC	1	11/32	3/32	28	1/4	9/32	BUB-200-FC	4,527
TST-0500 X 1.5-FC	1-1/2	11/32	3/32	28	1/4	9/32	BUB-200-FC	4,527
TST-0500 X 2-FC	2	11/32	3/32	28	1/4	9/32	BUB-200-FC	4,527
TST-0500 X 3-FC	3	11/32	3/32	28	1/4	9/32	BUB-200-FC	4,527

Threaded Body Stainless Ball – Flat Cone – Inch (continued)



INCH (CONTINUED)								
Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs.
5/8-11 Threads								
TST-0625-FC	1	7/16	1/8	28	5/16	3/8	BUB-300-FC	6,131
TST-0625 X 2-FC	2	7/16	1/8	28	5/16	3/8	BUB-300-FC	6,131
TST-0625 X 3-FC	3	7/16	1/8	28	5/16	3/8	BUB-300-FC	6,131
5/8-18 Threads								
TST-0620-FC	1	7/16	1/8	28	5/16	3/8	BUB-300-FC	6,131
TST-0620 X 2-FC	2	7/16	1/8	28	5/16	3/8	BUB-300-FC	6,131
TST-0620 X 3-FC	3	7/16	1/8	28	5/16	3/8	BUB-300-FC	6,131
3/4-10 Threads								
TST-0755-FC	1	33/64	1/8	28	3/8	1/2	BUB-500-FC	8,150
TST-0755 X 2-FC	2	33/64	1/8	28	3/8	1/2	BUB-500-FC	8,150
TST-0755 X 3-FC	3	33/64	1/8	28	3/8	1/2	BUB-500-FC	8,150
3/4-16 Threads								
TST-0750-FC	1	33/64	1/8	28	3/8	1/2	BUB-500-FC	8,150
TST-0750 X 2-FC	2	33/64	1/8	28	3/8	1/2	BUB-500-FC	8,150
TST-0750 X 3-FC	3	33/64	1/8	28	3/8	1/2	BUB-500-FC	8,150
1"-8 Threads								
TST-1108-FC	1	11/16	5/32	32	3/8	5/8	BUB-600-FC	14,757
TST-1108 X 2-FC	2	11/16	5/32	32	3/8	5/8	BUB-600-FC	14,757
TST-1108 X 3-FC	3	11/16	5/32	32	3/8	5/8	BUB-600-FC	14,757
1"-14 Threads								
TST-1114-FC	1	49/64	5/32	32	3/8	3/4	BUB-700-FC	17,210
TST-1114 X 2-FC	2	49/64	5/32	32	3/8	3/4	BUB-700-FC	17,210
TST-1114 X 3-FC	3	49/64	5/32	32	3/8	3/4	BUB-700-FC	17,210

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Threaded Body Stainless Ball – Abrasive Diamond Surface – Inch

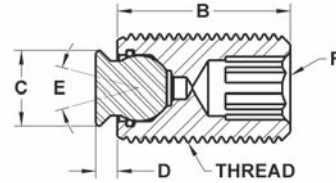
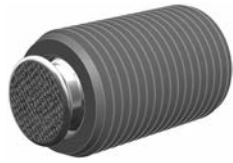


These thrust screw assemblies allow straight line static load thrust without transmitting torsional or radial force on to the contact area. The free floating ball design allows the thrust screw to continue to rotate while the ball remains stationary against the contact surface. Ideal for irregular haped or contoured applications. The housing is made from alloy steel, heat treated to Rc 43/46 with a black oxide finish. The replaceable ball is held in place with a viton O-ring which keeps contaminants out and allows the ball to swivel. The abrasive surface is permanently fused to a 300 series stainless steel pad. The surface texture is comparable to a 100 grit abrasive. They are ideal for holding smooth or slippery applications with a minimum of clamping pressure. Individual diamond particles transfer holding pressure to a very small and well distributed area, providing superior holding with minimal surface marking. The diamond surface provides unparalleled wear resistance. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs.
3/8-16 Threads								
TST-0370-FC-DS	1/2	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TST-0370 X .75-FC-DS	3/4	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TST-0375-FC-DS	1	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TST-0375 X 1.5-FC-DS	1-1/2	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TST-0375 X 2-FC-DS	2	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TST-0375 X 3-FC-DS	3	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
3/8-24 Threads								
TST-0230-FC-DS	1/2	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TST-0230 X .75-FC-DS	3/4	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TST-0231-FC-DS	1	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TST-0231 X 1.5-FC-DS	1-1/2	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TST-0231 X 2-FC-DS	2	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
TST-0231 X 3-FC-DS	3	.236	.063	28	3/16	3/16	BUB-187-FC-DS	1,763
1/2-13 Threads								
TST-0513-FC-DS	3/4	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
TST-0510-FC-DS	1	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
TST-0510 X 1.5-FC-DS	1-1/2	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
TST-0510 X 2-FC-DS	2	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
TST-0510 X 3-FC-DS	3	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
1/2-20 Threads								
TST-0503-FC-DS	3/4	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
TST-0500-FC-DS	1	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
TST-0500 X 1.5-FC-DS	1-1/2	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
TST-0500 X 2-FC-DS	2	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
TST-0500 X 3-FC-DS	3	.315	.094	28	1/4	9/32	BUB-200-FC-DS	4,527
5/8-11 Threads								
TST-0625-FC-DS	1	.433	.125	28	5/16	3/8	BUB-300-FC-DS	6,131
TST-0625 X 2-FC-DS	2	.433	.125	28	5/16	3/8	BUB-300-FC-DS	6,131
TST-0625 X 3-FC-DS	3	.433	.125	28	5/16	3/8	BUB-300-FC-DS	6,131
5/8-18 Threads								
TST-0620-FC-DS	1	.433	.125	28	5/16	3/8	BUB-300-FC-DS	6,131
TST-0620 X 2-FC-DS	2	.433	.125	28	5/16	3/8	BUB-300-FC-DS	6,131
TST-0620 X 3-FC-DS	3	.433	.125	28	5/16	3/8	BUB-300-FC-DS	6,131

Threaded Body Stainless Ball – Abrasive Diamond Surface – Inch (continued)

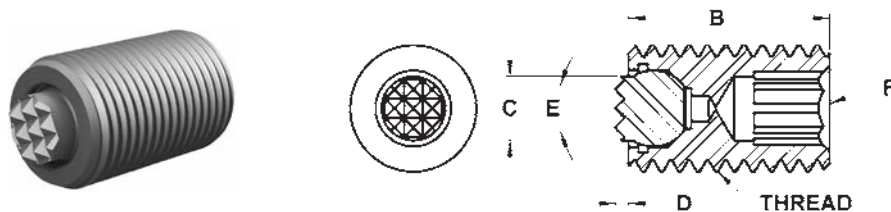


INCH (CONTINUED)

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs.
3/4-10 Threads								
TST-0755-FC-DS	1	.551	.125	28	3/8	1/2	BUB-500-FC-DS	8,150
TST-0755 X 2-FC-DS	2	.551	.125	28	3/8	1/2	BUB-500-FC-DS	8,150
TST-0755 X 3-FC-DS	3	.551	.125	28	3/8	1/2	BUB-500-FC-DS	8,150
3/4-16 Threads								
TST-0750-FC-DS	1	.551	.125	28	3/8	1/2	BUB-500-FC-DS	8,150
TST-0750 X 2-FC-DS	2	.551	.125	28	3/8	1/2	BUB-500-FC-DS	8,150
TST-0750 X 3-FC-DS	3	.551	.125	28	3/8	1/2	BUB-500-FC-DS	8,150
1"-8 Threads								
TST-1108-FC-DS	1	.748	.156	32	3/8	5/8	BUB-600-FC-DS	14,757
TST-1108 X 2-FC-DS	2	.748	.156	32	3/8	5/8	BUB-600-FC-DS	14,757
TST-1108 X 3-FC-DS	3	.748	.156	32	3/8	5/8	BUB-600-FC-DS	14,757
1"-14 Threads								
TST-1114-FC-DS	1	.827	.156	32	3/8	3/4	BUB-700-FC-DS	17,210
TST-1114 X 2-FC-DS	2	.827	.156	32	3/8	3/4	BUB-700-FC-DS	17,210
TST-1114 X 3-FC-DS	3	.827	.156	32	3/8	3/4	BUB-700-FC-DS	17,210

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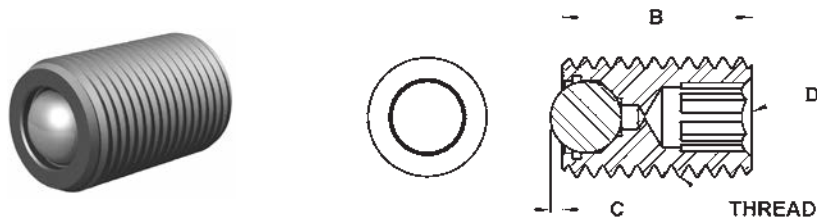
Threaded Body Tool Steel Ball – Serrated – Inch



These thrust screw assemblies allow straight line static load thrust without transmitting torsional or radial force on to the contact area. The free floating ball design allows the thrust screw to continue to rotate while the ball remains stationary against the contact surface. Ideal for irregular shaped or contoured applications. The housing is made from alloy steel, heat treated to Rc 43/46 with a black oxide finish. The replaceable ball is held in place with a viton O-ring which keeps contaminants out and allows the ball to swivel. The ball is made from M-2 high speed steel and heat treated to Rc 60/62. Replacement balls and O-rings can be ordered separately.

Part #	B Thread Length	C Contact Dia.	D Stand Off	E Degree Swivel	F Int. Hex	Ball Dia.	Ball Only Part #	Tooth Pattern	Load Rating Lbs.
3/8-16 Threads									
TST-0370-S	1/2	5/32	1/16	28	3/16	3/16	BUB-187-S	SF	1,763
TST-0370 X .75-S	3/4	5/32	1/16	28	3/16	3/16	BUB-187-S	SF	1,763
TST-0375-S	1	5/32	1/16	28	3/16	3/16	BUB-187-S	SF	1,763
TST-0375 X 1.5-S	1-1/2	5/32	1/16	28	3/16	3/16	BUB-187-S	SF	1,763
TST-0375 X 2-S	2	5/32	1/16	28	3/16	3/16	BUB-187-S	SF	1,763
TST-0375 X 3-S	3	5/32	1/16	28	3/16	3/16	BUB-187-S	SF	1,763
3/8-24 Threads									
TST-0230-S	1/2	5/32	1/16	28	3/16	3/16	BUB-187-S	SF	1,763
TST-0230 X .75-S	3/4	5/32	1/16	28	3/16	3/16	BUB-187-S	SF	1,763
TST-0231-S	1	5/32	1/16	28	3/16	3/16	BUB-187-S	SF	1,763
TST-0231 X 1.5-S	1-1/2	5/32	1/16	28	3/16	3/16	BUB-187-S	SF	1,763
TST-0231 X 2-S	2	5/32	1/16	28	3/16	3/16	BUB-187-S	SF	1,763
TST-0231 X 3-S	3	5/32	1/16	28	3/16	3/16	BUB-187-S	SF	1,763
1/2-13 Threads									
TST-0513-S	3/4	1/4	1/16	28	1/4	9/32	BUB-200-S	SF	4,527
TST-0510-S	1	1/4	1/16	28	1/4	9/32	BUB-200-S	SF	4,527
TST-0510 X 1.5-S	1-1/2	1/4	1/16	28	1/4	9/32	BUB-200-S	SF	4,527
TST-0510 X 2-S	2	1/4	1/16	28	1/4	9/32	BUB-200-S	SF	4,527
TST-0510 X 3-S	3	1/4	1/16	28	1/4	9/32	BUB-200-S	SF	4,527
1/2-20 Threads									
TST-0503-S	3/4	1/4	1/16	28	1/4	9/32	BUB-200-S	SF	4,527
TST-0500-S	1	1/4	1/16	28	1/4	9/32	BUB-200-S	SF	4,527
TST-0500 X 1.5-S	1-1/2	1/4	1/16	28	1/4	9/32	BUB-200-S	SF	4,527
TST-0500 X 2-S	2	1/4	1/16	28	1/4	9/32	BUB-200-S	SF	4,527
TST-0500 X 3-S	3	1/4	1/16	28	1/4	9/32	BUB-200-S	SF	4,527
5/8-11 Threads									
TST-0625-S	1	5/16	1/16	28	5/16	3/8	BUB-300-S	EF	6,131
TST-0625 X 2-S	2	5/16	1/16	28	5/16	3/8	BUB-300-S	EF	6,131
TST-0625 X 3-S	3	5/16	1/16	28	5/16	3/8	BUB-300-S	EF	6,131
5/8-18 Threads									
TST-0620-S	1	5/16	1/16	28	5/16	3/8	BUB-300-S	EF	6,131
TST-0620 X 2-S	2	5/16	1/16	28	5/16	3/8	BUB-300-S	EF	6,131
TST-0620 X 3-S	3	5/16	1/16	28	5/16	3/8	BUB-300-S	EF	6,131
3/4-10 Threads									
TST-0755-S	1	3/8	1/8	40	3/8	1/2	BUB-500-S	EF	8,150
TST-0755 X 2-S	2	3/8	1/8	40	3/8	1/2	BUB-500-S	EF	8,150
TST-0755 X 3-S	3	3/8	1/8	40	3/8	1/2	BUB-500-S	EF	8,150
3/4-16 Threads									
TST-0750-S	1	3/8	1/8	40	3/8	1/2	BUB-500-S	EF	8,150
TST-0750 X 2-S	2	3/8	1/8	40	3/8	1/2	BUB-500-S	EF	8,150
TST-0750 X 3-S	3	3/8	1/8	40	3/8	1/2	BUB-500-S	EF	8,150
1"-8 Threads									
TST-1108-S	1	1/2	1/8	40	3/8	5/8	BUB-600-S	Fine	14,757
TST-1108 X 2-S	2	1/2	1/8	40	3/8	5/8	BUB-600-S	Fine	14,757
TST-1108 X 3-S	3	1/2	1/8	40	3/8	5/8	BUB-600-S	Fine	14,757
1"-14 Threads									
TST-1114-S	1	5/8	1/8	34	3/8	3/4	BUB-700-S	Fine	17,210
TST-1114 X 2-S	2	5/8	1/8	34	3/8	3/4	BUB-700-S	Fine	17,210
TST-1114 X 3-S	3	5/8	1/8	34	3/8	3/4	BUB-700-S	Fine	17,210

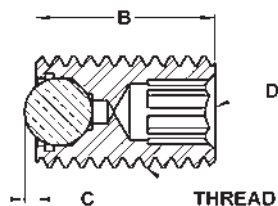
Threaded Body Stainless Ball – Round – Inch



These thrust screw assemblies allow straight line static load thrust without transmitting torsional or radial force on to the contact area. The free floating ball design allows the thrust screw to continue to rotate while the ball remains stationary against the contact surface. Ideal for irregular shaped or contoured applications. The housing is made from alloy steel, heat treated to Rc 43/46 with a black oxide finish. The replaceable ball is held in place with a viton O-ring which keeps contaminants out and allows the ball to swivel. The ball is made from 440c stainless steel and heat treated to Rc 58/62. Replacement balls and O-rings can be ordered separately.

INCH													
Part #	B Thread Length	C Stand Off	Ball Dia.	Ball Only Part #	D Int. Hex	Load Rating Lbs.	Part #	B Thread Length	C Stand Off	Ball Dia.	Ball Only Part #	D Int. Hex	Load Rating Lbs.
5/16-18 Threads							5/8-11 Threads						
TST-0310-SB	1/2	.026	5/32	BUB-156-SB	5/32	—	TST-0625-SB	1	.063	3/8	BUB-300-SB	5/16	6,131
TST-0312-SB	3/4	.026	5/32	BUB-156-SB	5/32	—	TST-0625 X 2-SB	2	.063	3/8	BUB-300-SB	5/16	6,131
TST-0312 X 1-SB	1	.026	5/32	BUB-156-SB	5/32	—	TST-0625 X 3-SB	3	.063	3/8	BUB-300-SB	5/16	6,131
TST-0312 X 1.5-SB	1-1/2	.026	5/32	BUB-156-SB	5/32	—	5/8-18 Threads						
5/16-24 Threads							TST-0620-SB	1	.063	3/8	BUB-300-SB	5/16	6,131
TST-0320-SB	1/2	.026	5/32	BUB-156-SB	5/32	—	TST-0620 X 2-SB	2	.063	3/8	BUB-300-SB	5/16	6,131
TST-0321-SB	3/4	.026	5/32	BUB-156-SB	5/32	—	TST-0620 X 3-SB	3	.063	3/8	BUB-300-SB	5/16	6,131
TST-0321 X 1-SB	1	.026	5/32	BUB-156-SB	5/32	—	3/4-10 Threads						
TST-0321 X 1.5-SB	1-1/2	.026	5/32	BUB-156-SB	5/32	—	TST-0755-SB	1	.107	1/2	BUB-500-SB	3/8	8,150
3/8-16 Threads							TST-0755 X 2-SB	2	.107	1/2	BUB-500-SB	3/8	8,150
TST-0370-SB	1/2	.024	3/16	BUB-187-SB	3/16	1,763	TST-0755 X 3-SB	3	.107	1/2	BUB-500-SB	3/8	8,150
TST-0370 X .75-SB	3/4	.024	3/16	BUB-187-SB	3/16	1,763	3/4-16 Threads						
TST-0375-SB	1	.024	3/16	BUB-187-SB	3/16	1,763	TST-0750-SB	1	.107	1/2	BUB-500-SB	3/8	8,150
TST-0375 X 1.5-SB	1-1/2	.024	3/16	BUB-187-SB	3/16	1,763	TST-0750 X 2-SB	2	.107	1/2	BUB-500-SB	3/8	8,150
TST-0375 X 2-SB	2	.024	3/16	BUB-187-SB	3/16	1,763	TST-0750 X 3-SB	3	.107	1/2	BUB-500-SB	3/8	8,150
TST-0375 X 3-SB	3	.024	3/16	BUB-187-SB	3/16	1,763	1"-8 Threads						
3/8-24 Threads							TST-1108-SB	1	.175	5/8	BUB-600-SB	3/8	14,757
TST-0230-SB	1/2	.024	3/16	BUB-187-SB	3/16	1,763	TST-1108 X 2-SB	2	.175	5/8	BUB-600-SB	3/8	14,757
TST-0230 X .75-SB	3/4	.024	3/16	BUB-187-SB	3/16	1,763	TST-1108 X 3-SB	3	.175	5/8	BUB-600-SB	3/8	14,757
TST-0231-SB	1	.024	3/16	BUB-187-SB	3/16	1,763	1"-14 Threads						
TST-0231 X 1.5-SB	1-1/2	.024	3/16	BUB-187-SB	3/16	1,763	TST-1114-SB	1	.208	3/4	BUB-700-SB	3/8	17,210
TST-0231 X 2-SB	2	.024	3/16	BUB-187-SB	3/16	1,763	TST-1114 X 2-SB	2	.208	3/4	BUB-700-SB	3/8	17,210
TST-0231 X 3-SB	3	.024	3/16	BUB-187-SB	3/16	1,763	TST-1114 X 3-SB	3	.208	3/4	BUB-700-SB	3/8	17,210
1/2-13 Threads													
TST-0513-SB	3/4	.063	9/32	BUB-200-SB	1/4	4,527							
TST-0510-SB	1	.063	9/32	BUB-200-SB	1/4	4,527							
TST-0510 X 1.5-SB	1-1/2	.063	9/32	BUB-200-SB	1/4	4,527							
TST-0510 X 2-SB	2	.063	9/32	BUB-200-SB	1/4	4,527							
TST-0510 X 3-SB	3	.063	9/32	BUB-200-SB	1/4	4,527							
1/2-20 Threads													
TST-0503-SB	3/4	.063	9/32	BUB-200-SB	1/4	4,527							
TST-0500-SB	1	.063	9/32	BUB-200-SB	1/4	4,527							
TST-0500 X 1.5-SB	1-1/2	.063	9/32	BUB-200-SB	1/4	4,527							
TST-0500 X 2-SB	2	.063	9/32	BUB-200-SB	1/4	4,527							
TST-0500 X 3-SB	3	.063	9/32	BUB-200-SB	1/4	4,527							

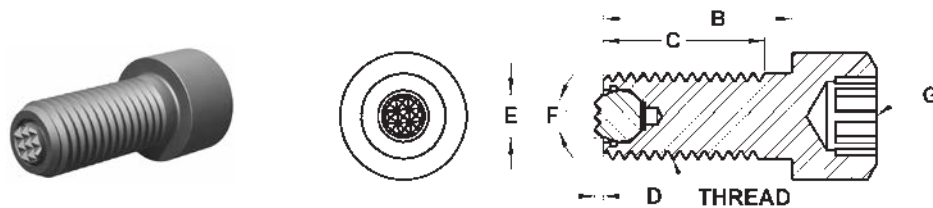
Threaded Body Delrin Ball – Round – Inch



These thrust screw assemblies allow straight line static load thrust without transmitting torsional or radial force on to the contact area. The free floating ball design allows the thrust screw to continue to rotate while the ball remains stationary against the contact surface. Ideal for irregular shaped or contoured applications. The housing is made from alloy steel, heat treated to Rc 43/46 with a black oxide finish. The replaceable ball is held in place with a viton O-ring which keeps contaminants out and allows the ball to swivel. The ball is made from non-marring white delrin. Replacement balls and O-rings can be ordered separately.

INCH					
Part #	B Thread Length	C Stand Off	Ball Dia.	Ball Only Part #	D Int. Hex
5/16-18 Threads					
TST-0310-DB	1/2	.026	5/32	BUB-156-DB	5/32
TST-0312-DB	3/4	.026	5/32	BUB-156-DB	5/32
TST-0312 X 1-DB	1	.026	5/32	BUB-156-DB	5/32
TST-0312 X 1.5-DB	1-1/2	.026	5/32	BUB-156-DB	5/32
5/16-24 Threads					
TST-0320-DB	1/2	.026	5/32	BUB-156-DB	5/32
TST-0321-DB	3/4	.026	5/32	BUB-156-DB	5/32
TST-0321 X 1-DB	1	.026	5/32	BUB-156-DB	5/32
TST-0321 X 1.5-DB	1-1/2	.026	5/32	BUB-156-DB	5/32
3/8-16 Threads					
TST-0370-DB	1/2	.024	3/16	BUB-187-DB	3/16
TST-0370 X .75-DB	3/4	.024	3/16	BUB-187-DB	3/16
TST-0375-DB	1	.024	3/16	BUB-187-DB	3/16
TST-0375 X 1.5-DB	1-1/2	.024	3/16	BUB-187-DB	3/16
TST-0375 X 2-DB	2	.024	3/16	BUB-187-DB	3/16
TST-0375 X 3-DB	3	.024	3/16	BUB-187-DB	3/16
3/8-24 Threads					
TST-0230-DB	1/2	.024	3/16	BUB-187-DB	3/16
TST-0230 X .75-DB	3/4	.024	3/16	BUB-187-DB	3/16
TST-0231-DB	1	.024	3/16	BUB-187-DB	3/16
TST-0231 X 1.5-DB	1-1/2	.024	3/16	BUB-187-DB	3/16
TST-0231 X 2-DB	2	.024	3/16	BUB-187-DB	3/16
TST-0231 X 3-DB	3	.024	3/16	BUB-187-DB	3/16
1/2-13 Threads					
TST-0513-DB	3/4	.063	9/32	BUB-200-DB	1/4
TST-0510-DB	1	.063	9/32	BUB-200-DB	1/4
TST-0510 X 1.5-DB	1-1/2	.063	9/32	BUB-200-DB	1/4
TST-0510 X 2-DB	2	.063	9/32	BUB-200-DB	1/4
TST-0510 X 3-DB	3	.063	9/32	BUB-200-DB	1/4
1/2-20 Threads					
TST-0503-DB	3/4	.063	9/32	BUB-200-DB	1/4
TST-0500-DB	1	.063	9/32	BUB-200-DB	1/4
TST-0500 X 1.5-DB	1-1/2	.063	9/32	BUB-200-DB	1/4
TST-0500 X 2-DB	2	.063	9/32	BUB-200-DB	1/4
TST-0500 X 3-DB	3	.063	9/32	BUB-200-DB	1/4
Part #	B Thread Length	C Stand Off	Ball Dia.	Ball Only Part #	D Int. Hex
5/8-11 Threads					
TST-0625-DB	1	.063	3/8	BUB-300-DB	5/16
TST-0625 X 2-DB	2	.063	3/8	BUB-300-DB	5/16
TST-0625 X 3-DB	3	.063	3/8	BUB-300-DB	5/16
5/8-18 Threads					
TST-0620-DB	1	.063	3/8	BUB-300-DB	5/16
TST-0620 X 2-DB	2	.063	3/8	BUB-300-DB	5/16
TST-0620 X 3-DB	3	.063	3/8	BUB-300-DB	5/16
3/4-10 Threads					
TST-0755-DB	1	.107	1/2	BUB-500-DB	3/8
TST-0755 X 2-DB	2	.107	1/2	BUB-500-DB	3/8
TST-0755 X 3-DB	3	.107	1/2	BUB-500-DB	3/8
3/4-16 Threads					
TST-0750-DB	1	.107	1/2	BUB-500-DB	3/8
TST-0750 X 2-DB	2	.107	1/2	BUB-500-DB	3/8
TST-0750 X 3-DB	3	.107	1/2	BUB-500-DB	3/8
1"-8 Threads					
TST-1108-DB	1	.175	5/8	BUB-600-DB	3/8
TST-1108 X 2-DB	2	.175	5/8	BUB-600-DB	3/8
TST-1108 X 3-DB	3	.175	5/8	BUB-600-DB	3/8
1"-14 Threads					
TST-1114-DB	1	.208	3/4	BUB-700-DB	3/8
TST-1114 X 2-DB	2	.208	3/4	BUB-700-DB	3/8
TST-1114 X 3-DB	3	.208	3/4	BUB-700-DB	3/8

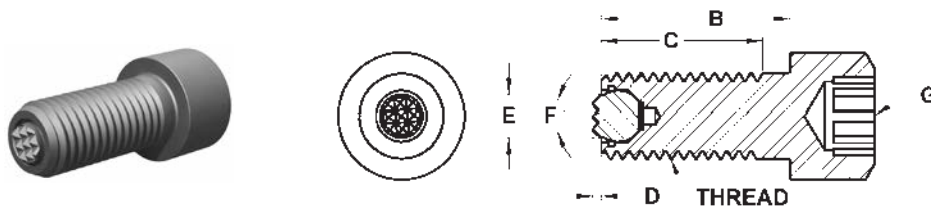
Socket Head Tool Steel Ball – Serrated – Inch



These thrust screw assemblies allow straight line static load thrust without transmitting torsional or radial force on to the contact area. The free floating ball design allows the thrust screw to continue to rotate while the ball remains stationary against the contact surface. Ideal for irregular shaped or contoured applications. The housing is made from alloy steel, heat treated to Rc 43/46 with a black oxide finish. The replaceable ball is held in place with a viton O-ring which keeps contaminants out and allows the ball to swivel. The ball is made from M-2 high speed steel and heat treated to Rc 60/62. Replacement balls and O-rings can be ordered separately.

INCH										
Part #	B Shank Length	C Thread Length	D Stand Off	E Contact Dia.	F Degree Swivel	G Int Hex	Ball Dia.	Ball Only Part #	Tooth Pattern	Load Rating Lbs.
3/8-16 Threads										
TSH-0375-S	1	1	1/16	5/32	28	5/16	3/16	BUB-187-S	SF	1,763
TSH-0375 X 1.5-S	1-1/2	1-1/2	1/16	5/32	28	5/16	3/16	BUB-187-S	SF	1,763
TSH-0375 X 2-S	2	1-1/4	1/16	5/32	28	5/16	3/16	BUB-187-S	SF	1,763
TSHF-0375 X 2-S	2	2	1/16	5/32	28	5/16	3/16	BUB-187-S	SF	1,763
TSH-0375 X 2.5-S	2-1/2	1-1/4	1/16	5/32	28	3/16	3/16	BUB-187-S	SF	1,763
TSHF-0375 X 2.5-S	2-1/2	2-1/2	1/16	5/32	28	3/16	3/16	BUB-187-S	SF	1,763
3/8-24 Threads										
TSH-0231-S	1	1	1/16	5/32	28	5/16	3/16	BUB-187-S	SF	1,763
TSH-0231 X 1.5-S	1-1/2	1-1/2	1/16	5/32	28	5/16	3/16	BUB-187-S	SF	1,763
TSH-0231 X 2-S	2	1-1/4	1/16	5/32	28	5/16	3/16	BUB-187-S	SF	1,763
TSHF-0231 X 2-S	2	2	1/16	5/32	28	5/16	3/16	BUB-187-S	SF	1,763
TSH-0231 X 2.5-S	2-1/2	1-1/4	1/16	5/32	28	5/16	3/16	BUB-187-S	SF	1,763
TSHF-0231 X 2.5-S	2-1/2	2-1/2	1/16	5/32	28	5/16	3/16	BUB-187-S	SF	1,763
1/2-13 Threads										
TSH-0510 X 1.25-S	1-1/4	1-1/4	1/16	1/4	28	3/8	9/32	BUB-200-S	SF	4,575
TSH-0510 X 1.5-S	1-1/2	1-1/2	1/16	1/4	28	3/8	9/32	BUB-200-S	SF	4,575
TSH-0510 X 2-S	2	2	1/16	1/4	28	3/8	9/32	BUB-200-S	SF	4,575
TSH-0510 X 2.5-S	2-1/2	1-1/2	1/16	1/4	28	3/8	9/32	BUB-200-S	SF	4,575
TSHF-0510 X 2.5-S	2-1/2	2-1/2	1/16	1/4	28	3/8	9/32	BUB-200-S	SF	4,575
TSH-0510 X 3-S	3	1-1/2	1/16	1/4	28	3/8	9/32	BUB-200-S	SF	4,575
TSHF-0510 X 3-S	3	3	1/16	1/4	28	3/8	9/32	BUB-200-S	SF	4,575
1/2-20 Threads										
TSH-0500 X 1.25-S	1-1/4	1-1/4	1/16	1/4	28	3/8	9/32	BUB-200-S	SF	4,575
TSH-0500 X 1.5-S	1-1/2	1-1/2	1/16	1/4	28	3/8	9/32	BUB-200-S	SF	4,575
TSH-0500 X 2-S	2	2	1/16	1/4	28	3/8	9/32	BUB-200-S	SF	4,575
TSH-0500 X 2.5-S	2-1/2	1-1/2	1/16	1/4	28	3/8	9/32	BUB-200-S	SF	4,575
TSHF-0500 X 2.5-S	2-1/2	2-1/2	1/16	1/4	28	3/8	9/32	BUB-200-S	SF	4,575
TSH-0500 X 3-S	3	1-1/2	1/16	1/4	28	3/8	9/32	BUB-200-S	SF	4,575
TSHF-0500 X 3-S	3	3	1/16	1/4	28	3/8	9/32	BUB-200-S	SF	4,575
5/8-11 Threads										
TSH-0625-S	1-1/2	1-3/4	1/16	5/16	28	1/2	3/8	BUB-300-S	EF	6,131
TSH-0625 X 2-S	2	2	1/16	5/16	28	1/2	3/8	BUB-300-S	EF	6,131
TSH-0625 X 2.5-S	2-1/2	1-3/4	1/16	5/16	28	1/2	3/8	BUB-300-S	EF	6,131
TSHF-0625 X 2.5-S	2-1/2	2-1/2	1/16	5/16	28	1/2	3/8	BUB-300-S	EF	6,131
TSH-0625 X 3-S	3	1-3/4	1/16	5/16	28	1/2	3/8	BUB-300-S	EF	6,131
TSHF-0625 X 3-S	3	3	1/16	5/16	28	1/2	3/8	BUB-300-S	EF	6,131
5/8-18 Threads										
TSH-0620-S	1-1/2	1-1/2	1/16	5/16	28	1/2	3/8	BUB-300-S	EF	6,131
TSH-0620 X 2-S	2	2	1/16	5/16	28	1/2	3/8	BUB-300-S	EF	6,131
TSH-0620 X 2.5-S	2-1/2	1-3/4	1/16	5/16	28	1/2	3/8	BUB-300-S	EF	6,131
TSHF-0620 X 2.5-S	2-1/2	2-1/2	1/16	5/16	28	1/2	3/8	BUB-300-S	EF	6,131
TSH-0620 X 3-S	3	1-3/4	1/16	5/16	28	1/2	3/8	BUB-300-S	EF	6,131
TSHF-0620 X 3-S	3	3	1/16	5/16	28	1/2	3/8	BUB-300-S	EF	6,131

Socket Head Tool Steel Ball – Serrated – Inch (continued)

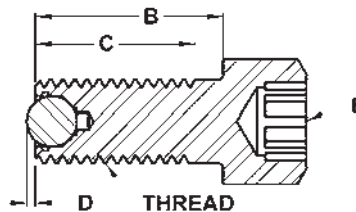


INCH (CONTINUED)

Part #	B Shank Length	C Thread Length	D Stand Off	E Contact Dia.	F Degree Swivel	G Int Hex	Ball Dia.	Ball Only Part #	Tooth Pattern	Load Rating Lbs.
3/4-10 Threads										
TSH-0755 X 2-S	2	2	1/8	3/8	40	5/8	1/2	BUB-500-S	EF	8,150
TSH-0755 X 2.5-S	2-1/2	2-1/2	1/8	3/8	40	5/8	1/2	BUB-500-S	EF	8,150
TSH-0755 X 3-S	3	2-1/2	1/8	3/8	40	5/8	1/2	BUB-500-S	EF	8,150
TSHF-0755 X 3-S	3	3	1/8	3/8	40	5/8	1/2	BUB-500-S	EF	8,150
3/4-16 Threads										
TSH-0750 X 2-S	2	2	1/8	3/8	40	5/8	1/2	BUB-500-S	EF	8,150
TSH-0750 X 2.5-S	2-1/2	2-1/2	1/8	3/8	40	5/8	1/2	BUB-500-S	EF	8,150
TSH-0750 X 3-S	3	2	1/8	3/8	40	5/8	1/2	BUB-500-S	EF	8,150
TSHF-0750 X 3-S	3	3	1/8	3/8	40	5/8	1/2	BUB-500-S	EF	8,150
1"-8 Threads										
TSH-1108 X 2-S	2	2	1/8	1/2	40	3/4	5/8	BUB-600-S	Fine	14,757
TSH-1108 X 3-S	3	3	1/8	1/2	40	3/4	5/8	BUB-600-S	Fine	14,757
TSH-1108 X 4-S	4	2-1/2	1/8	1/2	40	3/4	5/8	BUB-600-S	Fine	14,757
TSHF-1108 X 4-S	4	4	1/8	1/2	40	3/4	5/8	BUB-600-S	Fine	14,757
1"-14 Threads										
TSH-1114 X 2-S	2	2	1/8	5/8	34	3/4	3/4	BUB-700-S	Fine	17,210
TSH-1114 X 3-S	3	3	1/8	5/8	34	3/4	3/4	BUB-700-S	Fine	17,210
TSH-1114 X 4-S	4	2-1/2	1/8	5/8	34	3/4	3/4	BUB-700-S	Fine	17,210
TSHF-1114 X 4-S	4	4	1/8	5/8	34	3/4	3/4	BUB-700-S	Fine	17,210

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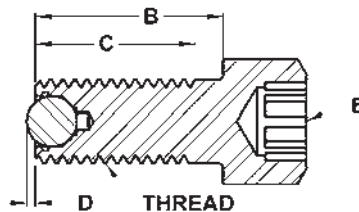
Socket Head Stainless Ball – Round – Inch



These thrust screw assemblies allow straight line static load thrust without transmitting torsional or radial force on to the contact area. The free floating ball design allows the thrust screw to continue to rotate while the ball remains stationary against the contact surface. Ideal for irregular shaped or contoured applications. The housing is made from alloy steel, heat treated to Rc 43/46 with a black oxide finish. The replaceable ball is held in place with a viton O-ring which keeps contaminants out and allows the ball to swivel. The ball is made from 440c stainless steel and heat treated to Rc 58/62. Replacement balls and O-rings can be ordered separately.

INCH							
Part #	B Shank Length	C Thread Length	D Stand Off	E Int. Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs.
5/16-18 Threads							
TSH-0310-SB	3/4	3/4	.026	1/4	5/32	BUB-156-SB	—
TSH-0312-SB	1	1	.026	1/4	5/32	BUB-156-SB	—
TSH-0312 X 1.25-SB	1-1/4	1-1/4	.026	1/4	5/32	BUB-156-SB	—
TSH-0312 X 1.75-SB	1-3/4	1-1/8	.026	1/4	5/32	BUB-156-SB	—
TSHF-0312 X 1.75-SB	1-3/4	1-3/4	.026	1/4	5/32	BUB-156-SB	—
TSH-0312 X 2-SB	2	1-1/8	.026	1/4	5/32	BUB-156-SB	—
TSHF-0312 X 2-SB	2	2	.026	1/4	5/32	BUB-156-SB	—
5/16-24 Threads							
TSH-0320-SB	3/4	3/4	.026	1/4	5/32	BUB-156-SB	—
TSH-0321-SB	1	1	.026	1/4	5/32	BUB-156-SB	—
TSH-0321 X 1.25-SB	1-1/4	1-1/4	.026	1/4	5/32	BUB-156-SB	—
TSH-0321 X 1.75-SB	1-3/4	1-1/8	.026	1/4	5/32	BUB-156-SB	—
TSHF-0321 X 1.75-SB	1-3/4	1-3/4	.026	1/4	5/32	BUB-156-SB	—
TSH-0321 X 2-SB	2	1-1/8	.026	1/4	5/32	BUB-156-SB	—
TSHF-0321 X 2-SB	2	2	.026	1/4	5/32	BUB-156-SB	—
3/8-16 Threads							
TSH-0375-SB	1	1	.024	5/16	3/16	BUB-187-SB	1,763
TSH-0375 X 1.5-SB	1-1/2	1-1/2	.024	5/16	3/16	BUB-187-SB	1,763
TSH-0375 X 2-SB	2	1-1/2	.024	5/16	3/16	BUB-187-SB	1,763
TSHF-0375 X 2-SB	2	2	.024	5/16	3/16	BUB-187-SB	1,763
TSH-0375 X 2.5-SB	2-1/2	1-1/2	.024	5/16	3/16	BUB-187-SB	1,763
TSHF-0375 X 2.5-SB	2-1/2	2-1/2	.024	5/16	3/16	BUB-187-SB	1,763
3/8-24 Threads							
TSH-0231-SB	1	1	.024	5/16	3/16	BUB-187-SB	1,763
TSH-0231 X 1.5-SB	1-1/2	1-1/2	.024	5/16	3/16	BUB-187-SB	1,763
TSH-0231 X 2-SB	2	1-3/8	.024	5/16	3/16	BUB-187-SB	1,763
TSHF-0231 X 2-SB	2	2	.024	5/16	3/16	BUB-187-SB	1,763
TSH-0231 X 2.5-SB	2-1/2	1-3/8	.024	5/16	3/16	BUB-187-SB	1,763
TSHF-0231 X 2.5-SB	2-1/2	2-1/2	.024	5/16	3/16	BUB-187-SB	1,763
1/2-13 Threads							
TSH-0510 X 1.25-SB	1-1/4	1-1/4	.063	3/8	9/32	BUB-200-SB	4,527
TSH-0510 X 1.5-SB	1-1/2	1-1/2	.063	3/8	9/32	BUB-200-SB	4,527
TSH-0510 X 2-SB	2	2	.063	3/8	9/32	BUB-200-SB	4,527
TSH-0510 X 2.5-SB	2-1/2	1-1/2	.063	3/8	9/32	BUB-200-SB	4,527
TSHF-0510 X 2.5-SB	2-1/2	2-1/2	.063	3/8	9/32	BUB-200-SB	4,527
TSH-0510 X 3-SB	3	1-1/2	.063	3/8	9/32	BUB-200-SB	4,527
TSHF-0510 X 3-SB	3	3	.063	3/8	9/32	BUB-200-SB	4,527
1/2-20 Threads							
TSH-0500 X 1.25-SB	1-1/4	1-1/4	.063	3/8	9/32	BUB-200-SB	4,527
TSH-0500 X 1.5-SB	1-1/2	1-1/2	.063	3/8	9/32	BUB-200-SB	4,527
TSH-0500 X 2-SB	2	2	.063	3/8	9/32	BUB-200-SB	4,527
TSH-0500 X 2.5-SB	2-1/2	1-1/2	.063	3/8	9/32	BUB-200-SB	4,527
TSHF-0500 X 2.5-SB	2-1/2	2-1/2	.063	3/8	9/32	BUB-200-SB	4,527
TSH-0500 X 3-SB	3	1-1/2	.063	3/8	9/32	BUB-200-SB	4,527
TSHF-0500 X 3-SB	3	3	.063	3/8	9/32	BUB-200-SB	4,527

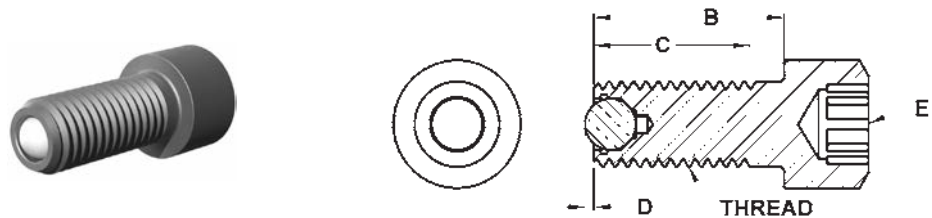
Socket Head Stainless Ball – Round – Inch (continued)



INCH (CONTINUED)

Part #	B Shank Length	C Thread Length	D Stand Off	E Int. Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs.
5/8-11 Threads							
TSH-0625-SB	1-1/2	1-1/2	.063	1/2	3/8	BUB-300-SB	6,131
TSH-0625 X 2-SB	2	2	.063	1/2	3/8	BUB-300-SB	6,131
TSH-0625 X 2.5-SB	2-1/2	1-3/4	.063	1/2	3/8	BUB-300-SB	6,131
TSHF-0625 X 2.5-SB	2-1/2	2-1/2	.063	1/2	3/8	BUB-300-SB	6,131
TSH-0625 X 3-SB	3	1-3/4	.063	1/2	3/8	BUB-300-SB	6,131
TSHF-0625 X 3-SB	3	3	.063	1/2	3/8	BUB-300-SB	6,131
5/8-18 Threads							
TSH-0620-SB	1-1/2	1-1/2	.063	1/2	3/8	BUB-300-SB	6,131
TSH-0620 X 2-SB	2	2	.063	1/2	3/8	BUB-300-SB	6,131
TSH-0620 X 2.5-SB	2-1/2	1-3/4	.063	1/2	3/8	BUB-300-SB	6,131
TSHF-0620 X 2.5-SB	2-1/2	2-1/2	.063	1/2	3/8	BUB-300-SB	6,131
TSH-0620 X 3-SB	3	1-3/4	.063	1/2	3/8	BUB-300-SB	6,131
TSHF-0620 X 3-SB	3	3	.063	1/2	3/8	BUB-300-SB	6,131
3/4-10 Threads							
TSH-0755 X 2-SB	2	2	.107	5/8	1/2	BUB-500-SB	8,150
TSH-0755 X 2.5-SB	2-1/2	2-1/2	.107	5/8	1/2	BUB-500-SB	8,150
TSH-0755 X 3-SB	3	2	.107	5/8	1/2	BUB-500-SB	8,150
TSHF-0755 X 3-SB	3	3	.107	5/8	1/2	BUB-500-SB	8,150
3/4-16 Threads							
TSH-0750 X 2-SB	2	2	.107	5/8	1/2	BUB-500-SB	8,150
TSH-0750 X 2.5-SB	2-1/2	2-1/2	.107	5/8	1/2	BUB-500-SB	8,150
TSH-0750 X 3-SB	3	2	.107	5/8	1/2	BUB-500-SB	8,150
TSHF-0750 X 3-SB	3	3	.107	5/8	1/2	BUB-500-SB	8,150
1"-8 Threads							
TSH-1108 X 2-SB	2	2	.175	3/4	5/8	BUB-600-SB	14,757
TSH-1108 X 3-SB	3	3	.175	3/4	5/8	BUB-600-SB	14,757
TSH-1108 X 4-SB	4	2-1/2	.175	3/4	5/8	BUB-600-SB	14,757
TSHF-1108 X 4-SB	4	4	.175	3/4	5/8	BUB-600-SB	14,757
1"-14 Threads							
TSH-1114 X 2-SB	2	2	.208	3/4	3/4	BUB-700-SB	17,210
TSH-1114 X 3-SB	3	3	.208	3/4	3/4	BUB-700-SB	17,210
TSH-1114 X 4-SB	4	2-1/2	.208	3/4	3/4	BUB-700-SB	17,210
TSHF-1114 X 4-SB	4	4	.208	3/4	3/4	BUB-700-SB	17,210

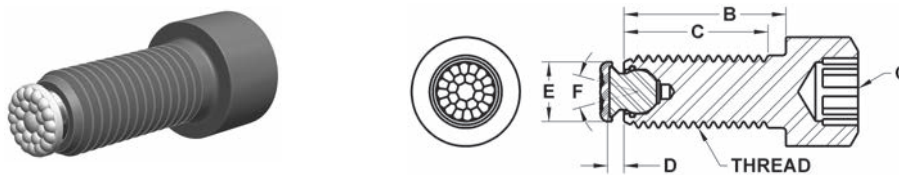
Socket Head Delrin Ball – Round – Inch



These thrust screw assemblies allow straight line static load thrust without transmitting torsional or radial force on to the contact area. The free floating ball design allows the thrust screw to continue to rotate while the ball remains stationary against the contact surface. Ideal for irregular shaped or contoured applications. The housing is made from alloy steel, heat treated to Rc 43/46 with a black oxide finish. The replaceable ball is held in place with a viton O-ring which keeps contaminants out and allows the ball to swivel. The ball is made from non-marring white delrin. Replacement balls and O-rings can be ordered separately.

INCH							INCH						
Part #	B Shank Length	C Thread Length	D Stand Off	E Int. Hex	Ball Dia.	Ball Only Part #	Part #	B Shank Length	C Thread Length	D Stand Off	E Int. Hex	Ball Dia.	Ball Only Part #
5/16-18 Threads							5/8-11 Threads						
TSH-0310-DB	3/4	3/4	.026	1/4	5/32	BUB-156-DB	TSH-0625-DB	1-1/2	1-1/2	.063	1/2	3/8	BUB-300-DB
TSH-0312-DB	1	1	.026	1/4	5/32	BUB-156-DB	TSH-0625 X 2-DB	2	2	.063	1/2	3/8	BUB-300-DB
TSH-0312 X 1.25-DB	1-1/4	1-1/4	.026	1/4	5/32	BUB-156-DB	TSH-0625 X 2.5-DB	2-1/2	1-3/4	.063	1/2	3/8	BUB-300-DB
TSH-0312 X 1.75-DB	1-3/4	1-1/8	.026	1/4	5/32	BUB-156-DB	TSHF-0625 X 2.5-DB	2-1/2	2-1/2	.063	1/2	3/8	BUB-300-DB
TSHF-0312 X 1.75-DB	1-3/4	1-3/4	.026	1/4	5/32	BUB-156-DB	TSH-0625 X 3-DB	3	1-3/4	.063	1/2	3/8	BUB-300-DB
TSH-0312 X 2-DB	2	1-1/8	.026	1/4	5/32	BUB-156-DB	TSHF-0625 X 3-DB	3	3	.063	1/2	3/8	BUB-300-DB
TSHF-0312 X 2-DB	2	2	.026	1/4	5/32	BUB-156-DB	5/8-18 Threads						
5/16-24 Threads							TSH-0620-DB	1-1/2	1-1/2	.063	1/2	3/8	BUB-300-DB
TSH-0320-DB	3/4	3/4	.026	1/4	5/32	BUB-156-DB	TSH-0620 X 2-DB	2	2	.063	1/2	3/8	BUB-300-DB
TSH-0321-DB	1	1	.026	1/4	5/32	BUB-156-DB	TSH-0620 X 2.5-DB	2-1/2	1-3/4	.063	1/2	3/8	BUB-300-DB
TSH-0321 X 1.25-DB	1-1/4	1-1/4	.026	1/4	5/32	BUB-156-DB	TSHF-0620 X 2.5-DB	2-1/2	2-1/2	.063	1/2	3/8	BUB-300-DB
TSH-0321 X 1.75-DB	1-3/4	1-1/8	.026	1/4	5/32	BUB-156-DB	TSH-0620 X 3-DB	3	1-3/4	.063	1/2	3/8	BUB-300-DB
TSHF-0321 X 1.75-DB	1-3/4	1-3/4	.026	1/4	5/32	BUB-156-DB	TSHF-0620 X 3-DB	3	3	.063	1/2	3/8	BUB-300-DB
TSH-0321 X 2-DB	2	1-1/8	.026	1/4	5/32	BUB-156-DB	3/4-10 Threads						
TSHF-0321 X 2-DB	2	2	.026	1/4	5/32	BUB-156-DB	TSH-0755 X 2-DB	2	2	.107	5/8	1/2	BUB-500-DB
3/8-16 Threads							TSH-0755 X 2.5-DB	2-1/2	2-1/2	.107	5/8	1/2	BUB-500-DB
TSH-0375-DB	1	1	.024	5/16	3/16	BUB-187-DB	TSH-0755 X 3-DB	3	2	.107	5/8	1/2	BUB-500-DB
TSH-0375 X 1.5-DB	1-1/2	1-1/2	.024	5/16	3/16	BUB-187-DB	TSHF-0755 X 3-DB	3	3	.107	5/8	1/2	BUB-500-DB
TSH-0375 X 2-DB	2	1-1/2	.024	5/16	3/16	BUB-187-DB	3/4-16 Threads						
TSHF-0375 X 2-DB	2	2	.024	5/16	3/16	BUB-187-DB	TSH-0750 X 2-DB	2	2	.107	5/8	1/2	BUB-500-DB
TSH-0375 X 2.5-DB	2-1/2	1-1/2	.024	5/16	3/16	BUB-187-DB	TSH-0750 X 2.5-DB	2-1/2	2-1/2	.107	5/8	1/2	BUB-500-DB
TSHF-0375 X 2.5-DB	2-1/2	2-1/2	.024	5/16	3/16	BUB-187-DB	TSH-0750 X 3-DB	3	2	.107	5/8	1/2	BUB-500-DB
3/8-24 Threads							TSHF-0750 X 3-DB	3	3	.107	5/8	1/2	BUB-500-DB
TSH-0231-DB	1	1	.024	5/16	3/16	BUB-187-DB	1"-8 Threads						
TSH-0231 X 1.5-DB	1-1/2	1-1/2	.024	5/16	3/16	BUB-187-DB	TSH-1108 X 2-DB	2	2	.175	3/4	5/8	BUB-600-DB
TSH-0231 X 2-DB	2	1-3/8	.024	5/16	3/16	BUB-187-DB	TSH-1108 X 3-DB	3	3	.175	3/4	5/8	BUB-600-DB
TSHF-0231 X 2-DB	2	2	.024	5/16	3/16	BUB-187-DB	TSH-1108 X 4-DB	4	2-1/2	.175	3/4	5/8	BUB-600-DB
TSH-0231 X 2.5-DB	2-1/2	1-3/8	.024	5/16	3/16	BUB-187-DB	TSHF-1108 X 4-DB	4	4	.175	3/4	5/8	BUB-600-DB
TSHF-0231 X 2.5-DB	2-1/2	2-1/2	.024	5/16	3/16	BUB-187-DB	1"-14 Threads						
1/2-13 Threads							TSH-1114 X 2-DB	2	2	.208	3/4	3/4	BUB-700-DB
TSH-0510 X 1.25-DB	1-1/4	1-1/4	.063	3/8	9/32	BUB-200-DB	TSH-1114 X 3-DB	3	3	.208	3/4	3/4	BUB-700-DB
TSH-0510 X 1.5-DB	1-1/2	1-1/2	.063	3/8	9/32	BUB-200-DB	TSH-1114 X 4-DB	4	2-1/2	.208	3/4	3/4	BUB-700-DB
TSH-0510 X 2-DB	2	2	.063	3/8	9/32	BUB-200-DB	TSHF-1114 X 4-DB	4	4	.208	3/4	3/4	BUB-700-DB
TSH-0510 X 2.5-DB	2-1/2	1-1/2	.063	3/8	9/32	BUB-200-DB							
TSHF-0510 X 2.5-DB	2-1/2	2-1/2	.063	3/8	9/32	BUB-200-DB							
TSH-0510 X 3-DB	3	1-1/2	.063	3/8	9/32	BUB-200-DB							
TSHF-0510 X 3-DB	3	3	.063	3/8	9/32	BUB-200-DB							
1/2-20 Threads													
TSH-0500 X 1.25-DB	1-1/4	1-1/4	.063	3/8	9/32	BUB-200-DB							
TSH-0500 X 1.5-DB	1-1/2	1-1/2	.063	3/8	9/32	BUB-200-DB							
TSH-0500 X 2-DB	2	2	.063	3/8	9/32	BUB-200-DB							
TSH-0500 X 2.5-DB	2-1/2	1-1/2	.063	3/8	9/32	BUB-200-DB							
TSHF-0500 X 2.5-DB	2-1/2	2-1/2	.063	3/8	9/32	BUB-200-DB							
TSH-0500 X 3-DB	3	1-1/2	.063	3/8	9/32	BUB-200-DB							
TSHF-0500 X 3-DB	3	3	.063	3/8	9/32	BUB-200-DB							

Socket Head Stainless Ball – Sof-Top Urethane Surface – Inch

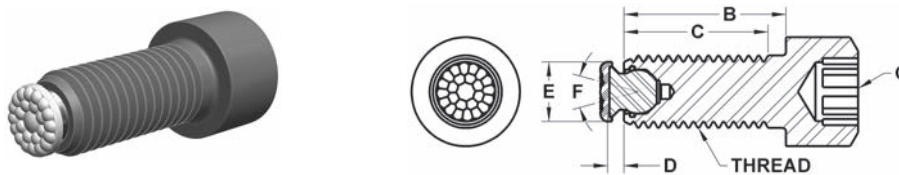


These thrust screw assemblies allow straight line static load thrust without transmitting torsional or radial force on to the contact area. The free floating ball design allows the thrust screw to continue to rotate while the ball remains stationary against the contact surface. Ideal for irregular shaped or contoured applications. The housing is made from alloy steel, heat treated to Rc 43/46 with a black oxide finish. The replaceable ball is held in place with a viton O-ring which keeps contaminants out and allows the ball to swivel. The urethane surface is permanently bonded to a 300 series stainless steel ball. The non-marking, non-staining urethane provides excellent protection against damage on delicate work surfaces. The "bubbled" texture of the urethane top offers firm holding and allows air to escape so no suction is created between the contact surface and the top of the rest pad as it is compressed. Because the top is made of urethane it offers superior abrasion and wear resistance. They are available in three durometers to meet a wide variety of application needs. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Shank Length	C Thread Length	D Stand Off	E Contact Dia.	F Degree Swivel	G Int. Hex	Ball Dia.	Durometer	Ball Only Part #
3/8-16 Threads									
TSH-0375-FC-35UR	1	1	.143	.315	28	5/16	3/16	35	BUB-187-FC-35UR
TSH-0375-FC-60UR	1	1	.143	.315	28	5/16	3/16	60	BUB-187-FC-60UR
TSH-0375-FC-80UR	1	1	.143	.315	28	5/16	3/16	80	BUB-187-FC-80UR
TSH-0375 X 1.5-FC-35UR	1-1/2	1-1/2	.143	.315	28	5/16	3/16	35	BUB-187-FC-35UR
TSH-0375 X 1.5-FC-60UR	1-1/2	1-1/2	.143	.315	28	5/16	3/16	60	BUB-187-FC-60UR
TSH-0375 X 1.5-FC-80UR	1-1/2	1-1/2	.143	.315	28	5/16	3/16	80	BUB-187-FC-80UR
TSH-0375 X 2-FC-35UR	2	1-1/2	.143	.315	28	5/16	3/16	35	BUB-187-FC-35UR
TSH-0375 X 2-FC-60UR	2	1-1/2	.143	.315	28	5/16	3/16	60	BUB-187-FC-60UR
TSH-0375 X 2-FC-80UR	2	1-1/2	.143	.315	28	5/16	3/16	80	BUB-187-FC-80UR
TSHF-0375 X 2-FC-35UR	2	2	.143	.315	28	5/16	3/16	35	BUB-187-FC-35UR
TSHF-0375 X 2-FC-60UR	2	2	.143	.315	28	5/16	3/16	60	BUB-187-FC-60UR
TSHF-0375 X 2-FC-80UR	2	2	.143	.315	28	5/16	3/16	80	BUB-187-FC-80UR
TSH-0375 X 2.5-FC-35UR	2-1/2	1-1/2	.143	.315	28	5/16	3/16	35	BUB-187-FC-35UR
TSH-0375 X 2.5-FC-60UR	2-1/2	1-1/2	.143	.315	28	5/16	3/16	60	BUB-187-FC-60UR
TSH-0375 X 2.5-FC-80UR	2-1/2	1-1/2	.143	.315	28	5/16	3/16	80	BUB-187-FC-80UR
TSHF-0375 X 2.5-FC-35UR	2-1/2	2-1/2	.143	.315	28	5/16	3/16	35	BUB-187-FC-35UR
TSHF-0375 X 2.5-FC-60UR	2-1/2	2-1/2	.143	.315	28	5/16	3/16	60	BUB-187-FC-60UR
TSHF-0375 X 2.5-FC-80UR	2-1/2	2-1/2	.143	.315	28	5/16	3/16	80	BUB-187-FC-80UR
3/8-24 Threads									
TSH-0231-FC-35UR	1	1	.143	.315	28	5/16	3/16	35	BUB-187-FC-35UR
TSH-0231-FC-60UR	1	1	.143	.315	28	5/16	3/16	60	BUB-187-FC-60UR
TSH-0231-FC-80UR	1	1	.143	.315	28	5/16	3/16	80	BUB-187-FC-80UR
TSH-0231 X 1.5-FC-35UR	1-1/2	1-1/2	.143	.315	28	5/16	3/16	35	BUB-187-FC-35UR
TSH-0231 X 1.5-FC-60UR	1-1/2	1-1/2	.143	.315	28	5/16	3/16	60	BUB-187-FC-60UR
TSH-0231 X 1.5-FC-80UR	1-1/2	1-1/2	.143	.315	28	5/16	3/16	80	BUB-187-FC-80UR
TSH-0231 X 2-FC-35UR	2	1-3/8	.143	.315	28	5/16	3/16	35	BUB-187-FC-35UR
TSH-0231 X 2-FC-60UR	2	1-3/8	.143	.315	28	5/16	3/16	60	BUB-187-FC-60UR
TSH-0231 X 2-FC-80UR	2	1-3/8	.143	.315	28	5/16	3/16	80	BUB-187-FC-80UR
TSHF-0231 X 2-FC-35UR	2	2	.143	.315	28	5/16	3/16	35	BUB-187-FC-35UR
TSHF-0231 X 2-FC-60UR	2	2	.143	.315	28	5/16	3/16	60	BUB-187-FC-60UR
TSHF-0231 X 2-FC-80UR	2	2	.143	.315	28	5/16	3/16	80	BUB-187-FC-80UR
TSH-0231 X 2.5-FC-35UR	2-1/2	1-3/8	.143	.315	28	5/16	3/16	35	BUB-187-FC-35UR
TSH-0231 X 2.5-FC-60UR	2-1/2	1-3/8	.143	.315	28	5/16	3/16	60	BUB-187-FC-60UR
TSH-0231 X 2.5-FC-80UR	2-1/2	1-3/8	.143	.315	28	5/16	3/16	80	BUB-187-FC-80UR
TSHF-0231 X 2.5-FC-35UR	2-1/2	2-1/2	.143	.315	28	5/16	3/16	35	BUB-187-FC-35UR
TSHF-0231 X 2.5-FC-60UR	2-1/2	2-1/2	.143	.315	28	5/16	3/16	60	BUB-187-FC-60UR
TSHF-0231 X 2.5-FC-80UR	2-1/2	2-1/2	.143	.315	28	5/16	3/16	80	BUB-187-FC-80UR

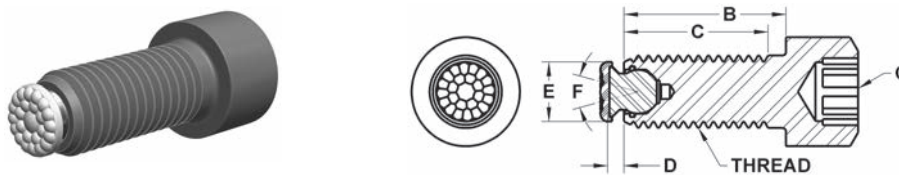
Socket Head Stainless Ball – Sof-Top Urethane Surface – Inch (continued)



INCH (CONTINUED)

Part #	B Shank Length	C Thread Length	D Stand Off	E Contact Dia.	F Degree Swivel	G Int. Hex	Ball Dia.	Durometer	Ball Only Part #
1/2-13 Threads									
TSH-0510 X 1.25-FC-35UR	1-1/4	1-1/4	.174	.394	28	3/8	9/32	35	BUB-200-FC-35UR
TSH-0510 X 1.25-FC-60UR	1-1/4	1-1/4	.174	.394	28	3/8	9/32	60	BUB-200-FC-60UR
TSH-0510 X 1.25-FC-80UR	1-1/4	1-1/4	.174	.394	28	3/8	9/32	80	BUB-200-FC-80UR
TSH-0510 X 1.5-FC-35UR	1-1/2	1-1/2	.174	.394	28	3/8	9/32	35	BUB-200-FC-35UR
TSH-0510 X 1.5-FC-60UR	1-1/2	1-1/2	.174	.394	28	3/8	9/32	60	BUB-200-FC-60UR
TSH-0510 X 1.5-FC-80UR	1-1/2	1-1/2	.174	.394	28	3/8	9/32	80	BUB-200-FC-80UR
TSH-0510 X 2-FC-35UR	2	2	.174	.394	28	3/8	9/32	35	BUB-200-FC-35UR
TSH-0510 X 2-FC-60UR	2	2	.174	.394	28	3/8	9/32	60	BUB-200-FC-60UR
TSH-0510 X 2-FC-80UR	2	2	.174	.394	28	3/8	9/32	80	BUB-200-FC-80UR
TSH-0510 X 2.5-FC-35UR	2-1/2	1-1/2	.174	.394	28	3/8	9/32	35	BUB-200-FC-35UR
TSH-0510 X 2.5-FC-60UR	2-1/2	1-1/2	.174	.394	28	3/8	9/32	60	BUB-200-FC-60UR
TSH-0510 X 2.5-FC-80UR	2-1/2	1-1/2	.174	.394	28	3/8	9/32	80	BUB-200-FC-80UR
TSHF-0510 X 2.5-FC-35UR	2-1/2	2-1/2	.174	.394	28	3/8	9/32	35	BUB-200-FC-35UR
TSHF-0510 X 2.5-FC-60UR	2-1/2	2-1/2	.174	.394	28	3/8	9/32	60	BUB-200-FC-60UR
TSHF-0510 X 2.5-FC-80UR	2-1/2	2-1/2	.174	.394	28	3/8	9/32	80	BUB-200-FC-80UR
TSH-0510 X 3-FC-35UR	3	1-1/2	.174	.394	28	3/8	9/32	35	BUB-200-FC-35UR
TSH-0510 X 3-FC-60UR	3	1-1/2	.174	.394	28	3/8	9/32	60	BUB-200-FC-60UR
TSH-0510 X 3-FC-80UR	3	1-1/2	.174	.394	28	3/8	9/32	80	BUB-200-FC-80UR
TSHF-0510 X 3-FC-35UR	3	3	.174	.394	28	3/8	9/32	35	BUB-200-FC-35UR
TSHF-0510 X 3-FC-60UR	3	3	.174	.394	28	3/8	9/32	60	BUB-200-FC-60UR
TSHF-0510 X 3-FC-80UR	3	3	.174	.394	28	3/8	9/32	80	BUB-200-FC-80UR
1/2-20 Threads									
TSH-0500 X 1.25-FC-35UR	1-1/4	1-1/4	.174	.394	28	3/8	9/32	35	BUB-200-FC-35UR
TSH-0500 X 1.25-FC-60UR	1-1/4	1-1/4	.174	.394	28	3/8	9/32	60	BUB-200-FC-60UR
TSH-0500 X 1.25-FC-80UR	1-1/4	1-1/4	.174	.394	28	3/8	9/32	80	BUB-200-FC-80UR
TSH-0500 X 1.5-FC-35UR	1-1/2	1-1/2	.174	.394	28	3/8	9/32	35	BUB-200-FC-35UR
TSH-0500 X 1.5-FC-60UR	1-1/2	1-1/2	.174	.394	28	3/8	9/32	60	BUB-200-FC-60UR
TSH-0500 X 1.5-FC-80UR	1-1/2	1-1/2	.174	.394	28	3/8	9/32	80	BUB-200-FC-80UR
TSH-0500 X 2-FC-35UR	2	2	.174	.394	28	3/8	9/32	35	BUB-200-FC-35UR
TSH-0500 X 2-FC-60UR	2	2	.174	.394	28	3/8	9/32	60	BUB-200-FC-60UR
TSH-0500 X 2-FC-80UR	2	2	.174	.394	28	3/8	9/32	80	BUB-200-FC-80UR
TSH-0500 X 2.5-FC-35UR	2-1/2	1-1/2	.174	.394	28	3/8	9/32	35	BUB-200-FC-35UR
TSH-0500 X 2.5-FC-60UR	2-1/2	1-1/2	.174	.394	28	3/8	9/32	60	BUB-200-FC-60UR
TSH-0500 X 2.5-FC-80UR	2-1/2	1-1/2	.174	.394	28	3/8	9/32	80	BUB-200-FC-80UR
TSHF-0500 X 2.5-FC-35UR	2-1/2	2-1/2	.174	.394	28	3/8	9/32	35	BUB-200-FC-35UR
TSHF-0500 X 2.5-FC-60UR	2-1/2	2-1/2	.174	.394	28	3/8	9/32	60	BUB-200-FC-60UR
TSHF-0500 X 2.5-FC-80UR	2-1/2	2-1/2	.174	.394	28	3/8	9/32	80	BUB-200-FC-80UR
TSH-0500 X 3-FC-35UR	3	1-1/2	.174	.394	28	3/8	9/32	35	BUB-200-FC-35UR
TSH-0500 X 3-FC-60UR	3	1-1/2	.174	.394	28	3/8	9/32	60	BUB-200-FC-60UR
TSH-0500 X 3-FC-80UR	3	1-1/2	.174	.394	28	3/8	9/32	80	BUB-200-FC-80UR
TSHF-0500 X 3-FC-35UR	3	3	.174	.394	28	3/8	9/32	35	BUB-200-FC-35UR
TSHF-0500 X 3-FC-60UR	3	3	.174	.394	28	3/8	9/32	60	BUB-200-FC-60UR
TSHF-0500 X 3-FC-80UR	3	3	.174	.394	28	3/8	9/32	80	BUB-200-FC-80UR

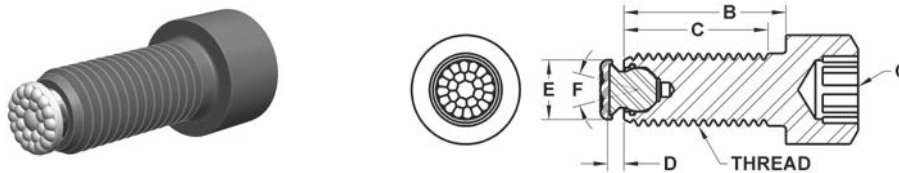
Socket Head Stainless Ball – Sof-Top Urethane Surface – Inch (continued)



INCH (CONTINUED)

Part #	B Shank Length	C Thread Length	D Stand Off	E Contact Dia.	F Degree Swivel	G Int. Hex	Ball Dia.	Durometer	Ball Only Part #
5/8-11 Threads									
TSH-0625-FC-35UR	1-1/2	1-1/2	.205	.512	28	1/2	3/8	35	BUB-300-FC-35UR
TSH-0625-FC-60UR	1-1/2	1-1/2	.205	.512	28	1/2	3/8	60	BUB-300-FC-60UR
TSH-0625-FC-80UR	1-1/2	1-1/2	.205	.512	28	1/2	3/8	80	BUB-300-FC-80UR
TSH-0625 X 2-FC-35UR	2	2	.205	.512	28	1/2	3/8	35	BUB-300-FC-35UR
TSH-0625 X 2-FC-60UR	2	2	.205	.512	28	1/2	3/8	60	BUB-300-FC-60UR
TSH-0625 X 2-FC-80UR	2	2	.205	.512	28	1/2	3/8	80	BUB-300-FC-80UR
TSH-0625 X 2.5-FC-35UR	2-1/2	1-3/4	.205	.512	28	1/2	3/8	35	BUB-300-FC-35UR
TSH-0625 X 2.5-FC-60UR	2-1/2	1-3/4	.205	.512	28	1/2	3/8	60	BUB-300-FC-60UR
TSH-0625 X 2.5-FC-80UR	2-1/2	1-3/4	.205	.512	28	1/2	3/8	80	BUB-300-FC-80UR
TSHF-0625 X 2.5-FC-35UR	2-1/2	2-1/2	.205	.512	28	1/2	3/8	35	BUB-300-FC-35UR
TSHF-0625 X 2.5-FC-60UR	2-1/2	2-1/2	.205	.512	28	1/2	3/8	60	BUB-300-FC-60UR
TSHF-0625 X 2.5-FC-80UR	2-1/2	2-1/2	.205	.512	28	1/2	3/8	80	BUB-300-FC-80UR
TSH-0625 X 3-FC-35UR	3	1-3/4	.205	.512	28	1/2	3/8	35	BUB-300-FC-35UR
TSH-0625 X 3-FC-60UR	3	1-3/4	.205	.512	28	1/2	3/8	60	BUB-300-FC-60UR
TSH-0625 X 3-FC-80UR	3	1-3/4	.205	.512	28	1/2	3/8	80	BUB-300-FC-80UR
TSHF-0625 X 3-FC-35UR	3	3	.205	.512	28	1/2	3/8	35	BUB-300-FC-35UR
TSHF-0625 X 3-FC-60UR	3	3	.205	.512	28	1/2	3/8	60	BUB-300-FC-60UR
TSHF-0625 X 3-FC-80UR	3	3	.205	.512	28	1/2	3/8	80	BUB-300-FC-80UR
5/8-18 Threads									
TSH-0620-FC-35UR	1-1/2	1-1/2	.205	.512	28	1/2	3/8	35	BUB-300-FC-35UR
TSH-0620-FC-60UR	1-1/2	1-1/2	.205	.512	28	1/2	3/8	60	BUB-300-FC-60UR
TSH-0620-FC-80UR	1-1/2	1-1/2	.205	.512	28	1/2	3/8	80	BUB-300-FC-80UR
TSH-0620 X 2-FC-35UR	2	2	.205	.512	28	1/2	3/8	35	BUB-300-FC-35UR
TSH-0620 X 2-FC-60UR	2	2	.205	.512	28	1/2	3/8	60	BUB-300-FC-60UR
TSH-0620 X 2-FC-80UR	2	2	.205	.512	28	1/2	3/8	80	BUB-300-FC-80UR
TSH-0620 X 2.5-FC-35UR	2-1/2	1-3/4	.205	.512	28	1/2	3/8	35	BUB-300-FC-35UR
TSH-0620 X 2.5-FC-60UR	2-1/2	1-3/4	.205	.512	28	1/2	3/8	60	BUB-300-FC-60UR
TSH-0620 X 2.5-FC-80UR	2-1/2	1-3/4	.205	.512	28	1/2	3/8	80	BUB-300-FC-80UR
TSHF-0620 X 2.5-FC-35UR	2-1/2	2-1/2	.205	.512	28	1/2	3/8	35	BUB-300-FC-35UR
TSHF-0620 X 2.5-FC-60UR	2-1/2	2-1/2	.205	.512	28	1/2	3/8	60	BUB-300-FC-60UR
TSHF-0620 X 2.5-FC-80UR	2-1/2	2-1/2	.205	.512	28	1/2	3/8	80	BUB-300-FC-80UR
TSH-0620 X 3-FC-35UR	3	1-3/4	.205	.512	28	1/2	3/8	35	BUB-300-FC-35UR
TSH-0620 X 3-FC-60UR	3	1-3/4	.205	.512	28	1/2	3/8	60	BUB-300-FC-60UR
TSH-0620 X 3-FC-80UR	3	1-3/4	.205	.512	28	1/2	3/8	80	BUB-300-FC-80UR
TSHF-0620 X 3-FC-35UR	3	3	.205	.512	28	1/2	3/8	35	BUB-300-FC-35UR
TSHF-0620 X 3-FC-60UR	3	3	.205	.512	28	1/2	3/8	60	BUB-300-FC-60UR
TSHF-0620 X 3-FC-80UR	3	3	.205	.512	28	1/2	3/8	80	BUB-300-FC-80UR
3/4-10 Threads									
TSH-0755 X 2-FC-35UR	2	2	.205	.630	28	5/8	1/2	35	BUB-500-FC-35UR
TSH-0755 X 2-FC-60UR	2	2	.205	.630	28	5/8	1/2	60	BUB-500-FC-60UR
TSH-0755 X 2-FC-80UR	2	2	.205	.630	28	5/8	1/2	80	BUB-500-FC-80UR
TSH-0755 X 2.5-FC-35UR	2-1/2	2-1/2	.205	.630	28	5/8	1/2	35	BUB-500-FC-35UR
TSH-0755 X 2.5-FC-60UR	2-1/2	2-1/2	.205	.630	28	5/8	1/2	60	BUB-500-FC-60UR
TSH-0755 X 2.5-FC-80UR	2-1/2	2-1/2	.205	.630	28	5/8	1/2	80	BUB-500-FC-80UR
TSH-0755 X 3-FC-35UR	3	2	.205	.630	28	5/8	1/2	35	BUB-500-FC-35UR
TSH-0755 X 3-FC-60UR	3	2	.205	.630	28	5/8	1/2	60	BUB-500-FC-60UR
TSH-0755 X 3-FC-80UR	3	2	.205	.630	28	5/8	1/2	80	BUB-500-FC-80UR
TSHF-0755 X 3-FC-35UR	3	3	.205	.630	28	5/8	1/2	35	BUB-500-FC-35UR
TSHF-0755 X 3-FC-60UR	3	3	.205	.630	28	5/8	1/2	60	BUB-500-FC-60UR
TSHF-0755 X 3-FC-80UR	3	3	.205	.630	28	5/8	1/2	80	BUB-500-FC-80UR

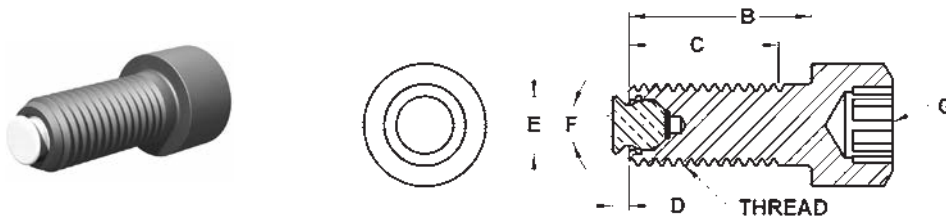
Socket Head Stainless Ball – Sof-Top Urethane Surface – Inch (continued)



INCH (CONTINUED)

Part #	B Shank Length	C Thread Length	D Stand Off	E Contact Dia.	F Degree Swivel	G Int. Hex	Ball Dia.	Durometer	Ball Only Part #
3/4-16 Threads									
TSH-0750 X 2-FC-35UR	2	2	.205	.630	28	5/8	1/2	35	BUB-500-FC-35UR
TSH-0750 X 2-FC-60UR	2	2	.205	.630	28	5/8	1/2	60	BUB-500-FC-60UR
TSH-0750 X 2-FC-80UR	2	2	.205	.630	28	5/8	1/2	80	BUB-500-FC-80UR
TSH-0750 X 2.5-FC-35UR	2-1/2	2-1/2	.205	.630	28	5/8	1/2	35	BUB-500-FC-35UR
TSH-0750 X 2.5-FC-60UR	2-1/2	2-1/2	.205	.630	28	5/8	1/2	60	BUB-500-FC-60UR
TSH-0750 X 2.5-FC-80UR	2-1/2	2-1/2	.205	.630	28	5/8	1/2	80	BUB-500-FC-80UR
TSH-0750 X 3-FC-35UR	3	2	.205	.630	28	5/8	1/2	35	BUB-500-FC-35UR
TSH-0750 X 3-FC-60UR	3	2	.205	.630	28	5/8	1/2	60	BUB-500-FC-60UR
TSH-0750 X 3-FC-80UR	3	2	.205	.630	28	5/8	1/2	80	BUB-500-FC-80UR
TSHF-0750 X 3-FC-35UR	3	3	.205	.630	28	5/8	1/2	35	BUB-500-FC-35UR
TSHF-0750 X 3-FC-60UR	3	3	.205	.630	28	5/8	1/2	60	BUB-500-FC-60UR
TSHF-0750 X 3-FC-80UR	3	3	.205	.630	28	5/8	1/2	80	BUB-500-FC-80UR
1"-8 Threads									
TSH-1108 X 2-FC-35UR	2	2	.236	.827	32	3/4	5/8	35	BUB-600-FC-35UR
TSH-1108 X 2-FC-60UR	2	2	.236	.827	32	3/4	5/8	60	BUB-600-FC-60UR
TSH-1108 X 2-FC-80UR	2	2	.236	.827	32	3/4	5/8	80	BUB-600-FC-80UR
TSH-1108 X 3-FC-35UR	3	3	.236	.827	32	3/4	5/8	35	BUB-600-FC-35UR
TSH-1108 X 3-FC-60UR	3	3	.236	.827	32	3/4	5/8	60	BUB-600-FC-60UR
TSH-1108 X 3-FC-80UR	3	3	.236	.827	32	3/4	5/8	80	BUB-600-FC-80UR
TSH-1108 X 4-FC-35UR	4	2-1/2	.236	.827	32	3/4	5/8	35	BUB-600-FC-35UR
TSH-1108 X 4-FC-60UR	4	2-1/2	.236	.827	32	3/4	5/8	60	BUB-600-FC-60UR
TSH-1108 X 4-FC-80UR	4	2-1/2	.236	.827	32	3/4	5/8	80	BUB-600-FC-80UR
TSHF-1108 X 4-FC-35UR	4	4	.236	.827	32	3/4	5/8	35	BUB-600-FC-35UR
TSHF-1108 X 4-FC-60UR	4	4	.236	.827	32	3/4	5/8	60	BUB-600-FC-60UR
TSHF-1108 X 4-FC-80UR	4	4	.236	.827	32	3/4	5/8	80	BUB-600-FC-80UR
1"-14 Threads									
TSH-1114 X 2-FC-35UR	2	2	.236	.906	32	3/4	3/4	35	BUB-700-FC-35UR
TSH-1114 X 2-FC-60UR	2	2	.236	.906	32	3/4	3/4	60	BUB-700-FC-60UR
TSH-1114 X 2-FC-80UR	2	2	.236	.906	32	3/4	3/4	80	BUB-700-FC-80UR
TSH-1114 X 3-FC-35UR	3	3	.236	.906	32	3/4	3/4	35	BUB-700-FC-35UR
TSH-1114 X 3-FC-60UR	3	3	.236	.906	32	3/4	3/4	60	BUB-700-FC-60UR
TSH-1114 X 3-FC-80UR	3	3	.236	.906	32	3/4	3/4	80	BUB-700-FC-80UR
TSH-1114 X 4-FC-35UR	4	2-1/2	.236	.906	32	3/4	3/4	35	BUB-700-FC-35UR
TSH-1114 X 4-FC-60UR	4	2-1/2	.236	.906	32	3/4	3/4	60	BUB-700-FC-60UR
TSH-1114 X 4-FC-80UR	4	2-1/2	.236	.906	32	3/4	3/4	80	BUB-700-FC-80UR
TSHF-1114 X 4-FC-35UR	4	4	.236	.906	32	3/4	3/4	35	BUB-700-FC-35UR
TSHF-1114 X 4-FC-60UR	4	4	.236	.906	32	3/4	3/4	60	BUB-700-FC-60UR
TSHF-1114 X 4-FC-80UR	4	4	.236	.906	32	3/4	3/4	80	BUB-700-FC-80UR

Socket Head Delrin Ball – Flat Cone – Inch

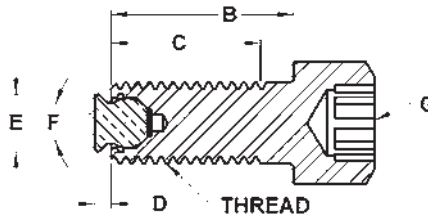


These thrust screw assemblies allow straight line static load thrust without transmitting torsional or radial force on to the contact area. The free floating ball design allows the thrust screw to continue to rotate while the ball remains stationary against the contact surface. Ideal for irregular shaped or contoured applications. The housing is made from alloy steel, heat treated to Rc 43/46 with a black oxide finish. The replaceable ball is held in place with a viton O-ring which keeps contaminants out and allows the ball to swivel. The flat ball is made from non-marring white delrin and ground flat. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Shank Length	C Thread Length	D Stand Off	E Contact Dia.	F Degree Swivel	G Int. Hex	Ball Dia.	Ball Only Part #
1/4-20 Threads								
TSH-0250-DC	3/4	3/4	1/16	9/64	30	3/16	1/8	BUB-125-DC
TSH-0251-DC	1	1	1/16	9/64	30	3/16	1/8	BUB-125-DC
TSH-0251 X 1.5-DC	1-1/2	1	1/16	9/64	30	3/16	1/8	BUB-125-DC
TSHF-0251 X 1.5-DC	1-1/2	1-1/2	1/16	9/64	30	3/16	1/8	BUB-125-DC
1/4-28 Threads								
TSH-0280-DC	3/4	3/4	1/16	9/64	30	3/16	1/8	BUB-125-DC
TSH-0281-DC	1	1	1/16	9/64	30	3/16	1/8	BUB-125-DC
TSH-0281 X 1.5-DC	1-1/2	1	1/16	9/64	30	3/16	1/8	BUB-125-DC
TSHF-0281 X 1.5-DC	1-1/2	1-1/2	1/16	9/64	30	3/16	1/8	BUB-125-DC
5/16-18 Threads								
TSH-0310-DC	3/4	3/4	1/16	13/64	30	1/4	5/32	BUB-156-DC
TSH-0312-DC	1	1	1/16	13/64	30	1/4	5/32	BUB-156-DC
TSH-0312 X 1.25-DC	1-1/4	1-1/4	1/16	13/64	30	1/4	5/32	BUB-156-DC
TSH-0312 X 1.75-DC	1-3/4	1-1/8	1/16	13/64	30	1/4	5/32	BUB-156-DC
TSHF-0312 X 1.75-DC	1-3/4	1-3/4	1/16	13/64	30	1/4	5/32	BUB-156-DC
TSH-0312 X 2-DC	2	1-1/8	1/16	13/64	30	1/4	5/32	BUB-156-DC
TSHF-0312 X 2-DC	2	2	1/16	13/64	30	1/4	5/32	BUB-156-DC
5/16-24 Threads								
TSH-0320-DC	3/4	3/4	1/16	13/64	30	1/4	5/32	BUB-156-DC
TSH-0321-DC	1	1	1/16	13/64	30	1/4	5/32	BUB-156-DC
TSH-0321 X 1.25-DC	1-1/4	1-1/4	1/16	13/64	30	1/4	5/32	BUB-156-DC
TSH-0321 X 1.75-DC	1-3/4	1-1/8	1/16	13/64	30	1/4	5/32	BUB-156-DC
TSHF-0321 X 1.75-DC	1-3/4	1-3/4	1/16	13/64	30	1/4	5/32	BUB-156-DC
TSH-0321 X 2-DC	2	1-1/8	1/16	13/64	30	1/4	5/32	BUB-156-DC
TSHF-0321 X 2-DC	2	2	1/16	13/64	30	1/4	5/32	BUB-156-DC
3/8-16 Threads								
TSH-0375-DC	1	1	3/32	1/4	28	5/16	3/16	BUB-187-DC
TSH-0375 X 1.5-DC	1-1/2	1-1/2	3/32	1/4	28	5/16	3/16	BUB-187-DC
TSH-0375 X 2-DC	2	1-1/2	3/32	1/4	28	5/16	3/16	BUB-187-DC
TSHF-0375 X 2-DC	2	2	3/32	1/4	28	5/16	3/16	BUB-187-DC
TSH-0375 X 2.5-DC	2-1/2	1-1/2	3/32	1/4	28	5/16	3/16	BUB-187-DC
TSHF-0375 X 2.5-DC	2-1/2	2-1/2	3/32	1/4	28	5/16	3/16	BUB-187-DC
3/8-24 Threads								
TSH-0231-DC	1	1	3/32	1/4	28	5/16	3/16	BUB-187-DC
TSH-0231 X 1.5-DC	1-1/2	1-1/2	3/32	1/4	28	5/16	3/16	BUB-187-DC
TSH-0231 X 2-DC	2	1-3/8	3/32	1/4	28	5/16	3/16	BUB-187-DC
TSHF-0231 X 2-DC	2	2	3/32	1/4	28	5/16	3/16	BUB-187-DC
TSH-0231 X 2.5-DC	2-1/2	1-3/8	3/32	1/4	28	5/16	3/16	BUB-187-DC
TSHF-0231 X 2.5-DC	2-1/2	2-1/2	3/32	1/4	28	5/16	3/16	BUB-187-DC

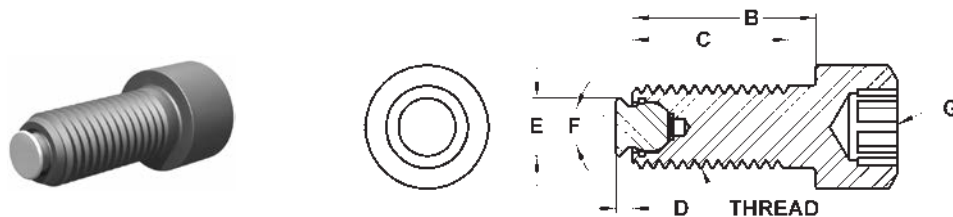
Socket Head Delrin Ball – Flat Cone – Inch (continued)



INCH (CONTINUED)

Part #	B Shank Length	C Thread Length	D Stand Off	E Contact Dia.	F Degree Swivel	G Int. Hex	Ball Dia.	Ball Only Part #
1/2-13 Threads								
TSH-0510 X 1.25-DC	1-1/4	1-1/4	3/32	11/32	28	3/8	9/32	BUB-200-DC
TSH-0510 X 1.5-DC	1-1/2	1-1/2	3/32	11/32	28	3/8	9/32	BUB-200-DC
TSH-0510 X 2-DC	2	2	3/32	11/32	28	3/8	9/32	BUB-200-DC
TSH-0510 X 2.5-DC	2-1/2	1-1/2	3/32	11/32	28	3/8	9/32	BUB-200-DC
TSHF-0510 X 2.5-DC	2-1/2	2-1/2	3/32	11/32	28	3/8	9/32	BUB-200-DC
TSH-0510 X 3-DC	3	1-1/2	3/32	11/32	28	3/8	9/32	BUB-200-DC
TSHF-0510 X 3-DC	3	3	3/32	11/32	28	3/8	9/32	BUB-200-DC
1/2-20 Threads								
TSH-0500 X 1.25-DC	1-1/4	1-1/4	3/32	11/32	28	3/8	9/32	BUB-200-DC
TSH-0500 X 1.5-DC	1-1/2	1-1/2	3/32	11/32	28	3/8	9/32	BUB-200-DC
TSH-0500 X 2-DC	2	2	3/32	11/32	28	3/8	9/32	BUB-200-DC
TSH-0500 X 2.5-DC	2-1/2	1-1/2	3/32	11/32	28	3/8	9/32	BUB-200-DC
TSHF-0500 X 2.5-DC	2-1/2	2-1/2	3/32	11/32	28	3/8	9/32	BUB-200-DC
TSH-0500 X 3-DC	3	1-1/2	3/32	11/32	28	3/8	9/32	BUB-200-DC
TSHF-0500 X 3-DC	3	3	3/32	11/32	28	3/8	9/32	BUB-200-DC
5/8-11 Threads								
TSH-0625-DC	1-1/2	1-1/2	1/8	7/16	28	1/2	3/8	BUB-300-DC
TSH-0625 X 2-DC	2	1-3/4	1/8	7/16	28	1/2	3/8	BUB-300-DC
TSH-0625 X 2.5-DC	2-1/2	1-3/4	1/8	7/16	28	1/2	3/8	BUB-300-DC
TSHF-0625 X 2.5-DC	2-1/2	2-1/2	1/8	7/16	28	1/2	3/8	BUB-300-DC
TSH-0625 X 3-DC	3	1-3/4	1/8	7/16	28	1/2	3/8	BUB-300-DC
TSHF-0625 X 3-DC	3	3	1/8	7/16	28	1/2	3/8	BUB-300-DC
5/8-18 Threads								
TSH-0620-DC	1-1/2	1-1/2	1/8	7/16	28	1/2	3/8	BUB-300-DC
TSH-0620 X 2-DC	2	2	1/8	7/16	28	1/2	3/8	BUB-300-DC
TSH-0620 X 2.5-DC	2-1/2	1-3/4	1/8	7/16	28	1/2	3/8	BUB-300-DC
TSHF-0620 X 2.5-DC	2-1/2	2-1/2	1/8	7/16	28	1/2	3/8	BUB-300-DC
TSH-0620 X 3-DC	3	1-3/4	1/8	7/16	28	1/2	3/8	BUB-300-DC
TSHF-0620 X 3-DC	3	3	1/8	7/16	28	1/2	3/8	BUB-300-DC
3/4-10 Threads								
TSH-0755 X 2-DC	2	2	1/8	33/64	28	5/8	1/2	BUB-500-DC
TSH-0755 X 2.5-DC	2-1/2	2-1/2	1/8	33/64	28	5/8	1/2	BUB-500-DC
TSH-0755 X 3-DC	3	2	1/8	33/64	28	5/8	1/2	BUB-500-DC
TSHF-0755 X 3-DC	3	3	1/8	33/64	28	5/8	1/2	BUB-500-DC
3/4-16 Threads								
TSH-0750 X 2-DC	2	2	1/8	33/64	28	5/8	1/2	BUB-500-DC
TSH-0750 X 2.5-DC	2-1/2	2-1/2	1/8	33/64	28	5/8	1/2	BUB-500-DC
TSH-0750 X 3-DC	3	2	1/8	33/64	28	5/8	1/2	BUB-500-DC
TSHF-0750 X 3-DC	3	3	1/8	33/64	28	5/8	1/2	BUB-500-DC
1"-8 Threads								
TSH-1108 X 2-DC	2	2	5/32	11/16	24	3/4	5/8	BUB-600-DC
TSH-1108 X 3-DC	3	3	5/32	11/16	24	3/4	5/8	BUB-600-DC
TSH-1108 X 4-DC	4	2-1/2	5/32	11/16	24	3/4	5/8	BUB-600-DC
TSHF-1108 X 4-DC	4	4	5/32	11/16	24	3/4	5/8	BUB-600-DC
1"-14 Threads								
TSH-1114 X 2-DC	2	2	5/32	49/64	32	3/4	3/4	BUB-700-DC
TSH-1114 X 3-DC	3	3	5/32	49/64	32	3/4	3/4	BUB-700-DC
TSH-1114 X 4-DC	4	2-1/2	5/32	49/64	32	3/4	3/4	BUB-700-DC
TSHF-1114 X 4-DC	4	4	5/32	49/64	32	3/4	3/4	BUB-700-DC

Socket Head Stainless Ball – Flat Cone – Inch

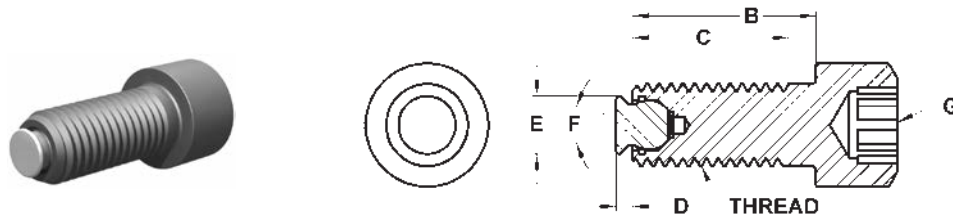


These thrust screw assemblies allow straight line static load thrust without transmitting torsional or radial force on to the contact area. The free floating ball design allows the thrust screw to continue to rotate while the ball remains stationary against the contact surface. Ideal for irregular shaped or contoured applications. The housing is made from alloy steel, heat treated to Rc 43/46 with a black oxide finish. The replaceable ball is held in place with a viton O-ring which keeps contaminants out and allows the ball to swivel. The flat ball is made from 303 stainless steel. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Shank Length	C Thread Length	D Stand Off	E Contact Dia.	F Degree Swivel	G Int. Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs.
1/4-20 Threads									
TSH-0250-FC	3/4	3/4	1/16	9/64	30	3/16	1/8	BUB-125-FC	—
TSH-0251-FC	1	1	1/16	9/64	30	3/16	1/8	BUB-125-FC	—
TSH-0251 X 1.5-FC	1-1/2	1	1/16	9/64	30	3/16	1/8	BUB-125-FC	—
TSHF-0251 X 1.5-FC	1-1/2	1-1/2	1/16	9/64	30	3/16	1/8	BUB-125-FC	—
1/4-28 Threads									
TSH-0280-FC	3/4	3/4	1/16	9/64	30	3/16	1/8	BUB-125-FC	—
TSH-0281-FC	1	1	1/16	9/64	30	3/16	1/8	BUB-125-FC	—
TSH-0281 X 1.5-FC	1-1/2	1	1/16	9/64	30	3/16	1/8	BUB-125-FC	—
TSHF-0281 X 1.5-FC	1-1/2	1-1/2	1/16	9/64	30	3/16	1/8	BUB-125-FC	—
5/16-18 Threads									
TSH-0310-FC	3/4	3/4	1/16	13/64	30	1/4	5/32	BUB-156-FC	—
TSH-0312-FC	1	1	1/16	13/64	30	1/4	5/32	BUB-156-FC	—
TSH-0312 X 1.25-FC	1-1/4	1-1/4	1/16	13/64	30	1/4	5/32	BUB-156-FC	—
TSH-0312 X 1.75-FC	1-3/4	1-1/8	1/16	13/64	30	1/4	5/32	BUB-156-FC	—
TSHF-0312 X 1.75-FC	1-3/4	1-3/4	1/16	13/64	30	1/4	5/32	BUB-156-FC	—
TSH-0312 X 2-FC	2	1-1/8	1/16	13/64	30	1/4	5/32	BUB-156-FC	—
TSHF-0312 X 2-FC	2	2	1/16	13/64	30	1/4	5/32	BUB-156-FC	—
5/16-24 Threads									
TSH-0320-FC	3/4	3/4	1/16	13/64	30	1/4	5/32	BUB-156-FC	—
TSH-0321-FC	1	1	1/16	13/64	30	1/4	5/32	BUB-156-FC	—
TSH-0321 X 1.25-FC	1-1/4	1-1/4	1/16	13/64	30	1/4	5/32	BUB-156-FC	—
TSH-0321 X 1.75-FC	1-3/4	1-1/8	1/16	13/64	30	1/4	5/32	BUB-156-FC	—
TSHF-0321 X 1.75-FC	1-3/4	1-3/4	1/16	13/64	30	1/4	5/32	BUB-156-FC	—
TSH-0321 X 2-FC	2	1-1/8	1/16	13/64	30	1/4	5/32	BUB-156-FC	—
TSHF-0321 X 2-FC	2	2	1/16	13/64	30	1/4	5/32	BUB-156-FC	—
3/8-16 Threads									
TSH-0375-FC	1	1	3/32	1/4	28	5/16	3/16	BUB-187-FC	1,763
TSH-0375 X 1.5-FC	1-1/2	1-1/2	3/32	1/4	28	5/16	3/16	BUB-187-FC	1,763
TSH-0375 X 2-FC	2	1-1/2	3/32	1/4	28	5/16	3/16	BUB-187-FC	1,763
TSHF-0375 X 2-FC	2	2	3/32	1/4	28	5/16	3/16	BUB-187-FC	1,763
TSH-0375 X 2.5-FC	2-1/2	1-1/2	3/32	1/4	28	5/16	3/16	BUB-187-FC	1,763
TSHF-0375 X 2.5-FC	2-1/2	2-1/2	3/32	1/4	28	5/16	3/16	BUB-187-FC	1,763
3/8-24 Threads									
TSH-0231-FC	1	1	3/32	1/4	28	5/16	3/16	BUB-187-FC	1,763
TSH-0231 X 1.5-FC	1-1/2	1-1/2	3/32	1/4	28	5/16	3/16	BUB-187-FC	1,763
TSH-0231 X 2-FC	2	1-3/8	3/32	1/4	28	5/16	3/16	BUB-187-FC	1,763
TSHF-0231 X 2-FC	2	2	3/32	1/4	28	5/16	3/16	BUB-187-FC	1,763
TSH-0231 X 2.5-FC	2-1/2	1-3/8	3/32	1/4	28	5/16	3/16	BUB-187-FC	1,763
TSHF-0231 X 2.5-FC	2-1/2	2-1/2	3/32	1/4	28	5/16	3/16	BUB-187-FC	1,763

Socket Head Stainless Ball – Flat Cone – Inch (continued)



INCH (CONTINUED)

Part #	B Shank Length	C Thread Length	D Stand Off	E Contact Dia.	F Degree Swivel	G Int. Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs.
1/2-13 Threads									
TSH-0510 X 1.25-FC	1-1/4	1-1/4	3/32	11/32	28	3/8	9/32	BUB-200-FC	4,527
TSH-0510 X 1.5-FC	1-1/2	1-1/2	3/32	11/32	28	3/8	9/32	BUB-200-FC	4,527
TSH-0510 X 2-FC	2	2	3/32	11/32	28	3/8	9/32	BUB-200-FC	4,527
TSH-0510 X 2.5-FC	2-1/2	1-1/2	3/32	11/32	28	3/8	9/32	BUB-200-FC	4,527
TSHF-0510 X 2.5-FC	2-1/2	2-1/2	3/32	11/32	28	3/8	9/32	BUB-200-FC	4,527
TSH-0510 X 3-FC	3	1-1/2	3/32	11/32	28	3/8	9/32	BUB-200-FC	4,527
TSHF-0510 X 3-FC	3	3	3/32	11/32	28	3/8	9/32	BUB-200-FC	4,527
1/2-20 Threads									
TSH-0500 X 1.25-FC	1-1/4	1-1/4	3/32	11/32	28	3/8	9/32	BUB-200-FC	4,527
TSH-0500 X 1.5-FC	1-1/2	1-1/2	3/32	11/32	28	3/8	9/32	BUB-200-FC	4,527
TSH-0500 X 2-FC	2	2	3/32	11/32	28	3/8	9/32	BUB-200-FC	4,527
TSH-0500 X 2.5-FC	2-1/2	1-1/2	3/32	11/32	28	3/8	9/32	BUB-200-FC	4,527
TSHF-0500 X 2.5-FC	2-1/2	2-1/2	3/32	11/32	28	3/8	9/32	BUB-200-FC	4,527
TSH-0500 X 3-FC	3	1-1/2	3/32	11/32	28	3/8	9/32	BUB-200-FC	4,527
TSHF-0500 X 3-FC	3	3	3/32	11/32	28	3/8	9/32	BUB-200-FC	4,527
5/8-11 Threads									
TSH-0625-FC	1-1/2	1-1/2	1/8	7/16	28	1/2	3/8	BUB-300-FC	6,131
TSH-0625 X 2-FC	2	2	1/8	7/16	28	1/2	3/8	BUB-300-FC	6,131
TSH-0625 X 2.5-FC	2-1/2	1-3/4	1/8	7/16	28	1/2	3/8	BUB-300-FC	6,131
TSHF-0625 X 2.5-FC	2-1/2	2-1/2	1/8	7/16	28	1/2	3/8	BUB-300-FC	6,131
TSH-0625 X 3-FC	3	1-3/4	1/8	7/16	28	1/2	3/8	BUB-300-FC	6,131
TSHF-0625 X 3-FC	3	3	1/8	7/16	28	1/2	3/8	BUB-300-FC	6,131
5/8-18 Threads									
TSH-0620-FC	1 1/2	1-1/2	1/8	7/16	28	1/2	3/8	BUB-300-FC	6,131
TSH-0620 X 2-FC	2	2	1/8	7/16	28	1/2	3/8	BUB-300-FC	6,131
TSH-0620 X 2.5-FC	2-1/2	1-3/4	1/8	7/16	28	1/2	3/8	BUB-300-FC	6,131
TSHF-0620 X 2.5-FC	2-1/2	2-1/2	1/8	7/16	28	1/2	3/8	BUB-300-FC	6,131
TSH-0620 X 3-FC	3	1-3/4	1/8	7/16	28	1/2	3/8	BUB-300-FC	6,131
TSHF-0620 X 3-FC	3	3	1/8	7/16	28	1/2	3/8	BUB-300-FC	6,131
3/4-10 Threads									
TSH-0755 X 2-FC	2	2	1/8	33/64	28	5/8	1/2	BUB-500-FC	8,150
TSH-0755 X 2.5-FC	2-1/2	2-1/2	1/8	33/64	28	5/8	1/2	BUB-500-FC	8,150
TSH-0755 X 3-FC	3	2	1/8	33/64	28	5/8	1/2	BUB-500-FC	8,150
TSHF-0755 X 3-FC	3	3	1/8	33/64	28	5/8	1/2	BUB-500-FC	8,150
3/4-16 Threads									
TSH-0750 X 2-FC	2	2	1/8	33/64	28	5/8	1/2	BUB-500-FC	8,150
TSH-0750 X 2.5-FC	2-1/2	2-1/2	1/8	33/64	28	5/8	1/2	BUB-500-FC	8,150
TSH-0750 X 3-FC	3	2	1/8	33/64	28	5/8	1/2	BUB-500-FC	8,150
TSHF-0750 X 3-FC	3	3	1/8	33/64	28	5/8	1/2	BUB-500-FC	8,150
1"-8 Threads									
TSH-1108 X 2-FC	2	2	5/32	11/16	32	3/4	5/8	BUB-600-FC	14,757
TSH-1108 X 3-FC	3	3	5/32	11/16	32	3/4	5/8	BUB-600-FC	14,757
TSH-1108 X 4-FC	4	2-1/2	5/32	11/16	32	3/4	5/8	BUB-600-FC	14,757
TSHF-1108 X 4-FC	4	4	5/32	11/16	32	3/4	5/8	BUB-600-FC	14,757
1"-14 Threads									
TSH-1114 X 2-FC	2	2	5/32	49/64	32	3/4	3/4	BUB-700-FC	17,210
TSH-1114 X 3-FC	3	3	5/32	49/64	32	3/4	3/4	BUB-700-FC	17,210
TSH-1114 X 4-FC	4	2-1/2	5/32	49/64	32	3/4	3/4	BUB-700-FC	17,210
TSHF-1114 X 4-FC	4	4	5/32	49/64	32	3/4	3/4	BUB-700-FC	17,210

Socket Head Stainless Ball – Abrasive Diamond Surface – Inch

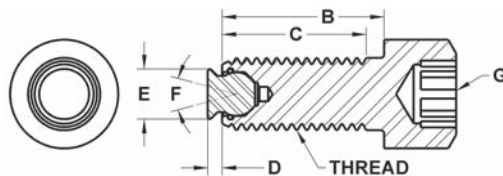


These thrust screw assemblies allow straight line static load thrust without transmitting torsional or radial force on to the contact area. The free floating ball design allows the thrust screw to continue to rotate while the ball remains stationary against the contact surface. Ideal for irregular shaped or contoured applications. The housing is made from alloy steel, heat treated to Rc 43/46 with a black oxide finish. The replaceable ball is held in place with a viton O-ring which keeps contaminants out and allows the ball to swivel. The abrasive surface is permanently fused to a 300 series stainless steel pad. The surface texture is comparable to a 100 grit abrasive. They are ideal for holding smooth or slippery applications with a minimum of clamping pressure. Individual diamond particles transfer holding pressure to a very small and well distributed area, providing superior holding with minimal surface marking. The diamond surface provides unparalleled wear resistance. Replacement balls and O-rings can be ordered separately.

INCH

Part #	B Shank Length	C Thread Length	D Stand Off	E Contact Dia.	F Degree Swivel	G Int. Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs.
3/8-16 Threads									
TSH-0375-FC-DS	1	1	.063	.236	28	5/16	3/16	BUB-187-FC-DS	1,763
TSH-0375 X 1.5-FC-DS	1-1/2	1-1/2	.063	.236	28	5/16	3/16	BUB-187-FC-DS	1,763
TSH-0375 X 2-FC-DS	2	1-1/2	.063	.236	28	5/16	3/16	BUB-187-FC-DS	1,763
TSHF-0375 X 2-FC-DS	2	2	.063	.236	28	5/16	3/16	BUB-187-FC-DS	1,763
TSH-0375 X 2.5-FC-DS	2-1/2	1-1/2	.063	.236	28	5/16	3/16	BUB-187-FC-DS	1,763
TSHF-0375 X 2.5-FC-DS	2-1/2	2-1/2	.063	.236	28	5/16	3/16	BUB-187-FC-DS	1,763
3/8-24 Threads									
TSH-0231-FC-DS	1	1	.063	.236	28	5/16	3/16	BUB-187-FC-DS	1,763
TSH-0231 X 1.5-FC-DS	1-1/2	1-1/2	.063	.236	28	5/16	3/16	BUB-187-FC-DS	1,763
TSH-0231 X 2-FC-DS	2	1-3/8	.063	.236	28	5/16	3/16	BUB-187-FC-DS	1,763
TSHF-0231 X 2-FC-DS	2	2	.063	.236	28	5/16	3/16	BUB-187-FC-DS	1,763
TSH-0231 X 2.5-FC-DS	2-1/2	1-3/8	.063	.236	28	5/16	3/16	BUB-187-FC-DS	1,763
TSHF-0231 X 2.5-FC-DS	2-1/2	2-1/2	.063	.236	28	5/16	3/16	BUB-187-FC-DS	1,763
1/2-13 Threads									
TSH-0510 X 1.25-FC-DS	1-1/4	1-1/4	.094	.315	28	3/8	9/32	BUB-200-FC-DS	4,527
TSH-0510 X 1.5-FC-DS	1-1/2	1-1/2	.094	.315	28	3/8	9/32	BUB-200-FC-DS	4,527
TSH-0510 X 2-FC-DS	2	2	.094	.315	28	3/8	9/32	BUB-200-FC-DS	4,527
TSH-0510 X 2.5-FC-DS	2-1/2	1-1/2	.094	.315	28	3/8	9/32	BUB-200-FC-DS	4,527
TSHF-0510 X 2.5-FC-DS	2-1/2	2-1/2	.094	.315	28	3/8	9/32	BUB-200-FC-DS	4,527
TSH-0510 X 3-FC-DS	3	1-1/2	.094	.315	28	3/8	9/32	BUB-200-FC-DS	4,527
TSHF-0510 X 3-FC-DS	3	3	.094	.315	28	3/8	9/32	BUB-200-FC-DS	4,527
1/2-20 Threads									
TSH-0500 X 1.25-FC-DS	1-1/4	1-1/4	.094	.315	28	3/8	9/32	BUB-200-FC-DS	4,527
TSH-0500 X 1.5-FC-DS	1-1/2	1-1/2	.094	.315	28	3/8	9/32	BUB-200-FC-DS	4,527
TSH-0500 X 2-FC-DS	2	2	.094	.315	28	3/8	9/32	BUB-200-FC-DS	4,527
TSH-0500 X 2.5-FC-DS	2-1/2	1-1/2	.094	.315	28	3/8	9/32	BUB-200-FC-DS	4,527
TSHF-0500 X 2.5-FC-DS	2-1/2	2-1/2	.094	.315	28	3/8	9/32	BUB-200-FC-DS	4,527
TSH-0500 X 3-FC-DS	3	1-1/2	.094	.315	28	3/8	9/32	BUB-200-FC-DS	4,527
TSHF-0500 X 3-FC-DS	3	3	.094	.315	28	3/8	9/32	BUB-200-FC-DS	4,527
5/8-11 Threads									
TSH-0625-FC-DS	1-1/2	1-1/2	.125	.433	28	1/2	3/8	BUB-300-FC-DS	6,131
TSH-0625 X 2-FC-DS	2	2	.125	.433	28	1/2	3/8	BUB-300-FC-DS	6,131
TSH-0625 X 2.5-FC-DS	2-1/2	1-3/4	.125	.433	28	1/2	3/8	BUB-300-FC-DS	6,131
TSHF-0625 X 2.5-FC-DS	2-1/2	2-1/2	.125	.433	28	1/2	3/8	BUB-300-FC-DS	6,131
TSH-0625 X 3-FC-DS	3	1-3/4	.125	.433	28	1/2	3/8	BUB-300-FC-DS	6,131
TSHF-0625 X 3-FC-DS	3	3	.125	.433	28	1/2	3/8	BUB-300-FC-DS	6,131
5/8-18 Threads									
TSH-0620-FC-DS	1-1/2	1-1/2	.125	.433	28	1/2	3/8	BUB-300-FC-DS	6,131
TSH-0620 X 2-FC-DS	2	2	.125	.433	28	1/2	3/8	BUB-300-FC-DS	6,131
TSH-0620 X 2.5-FC-DS	2-1/2	1-3/4	.125	.433	28	1/2	3/8	BUB-300-FC-DS	6,131
TSHF-0620 X 2.5-FC-DS	2-1/2	2-1/2	.125	.433	28	1/2	3/8	BUB-300-FC-DS	6,131
TSH-0620 X 3-FC-DS	3	1-3/4	.125	.433	28	1/2	3/8	BUB-300-FC-DS	6,131
TSHF-0620 X 3-FC-DS	3	3	.125	.433	28	1/2	3/8	BUB-300-FC-DS	6,131

Socket Head Stainless Ball – Abrasive Diamond Surface – Inch (continued)



INCH (CONTINUED)

Part #	B Shank Length	C Thread Length	D Stand Off	E Contact Dia.	F Degree Swivel	G Int. Hex	Ball Dia.	Ball Only Part #	Load Rating Lbs.
3/4-10 Threads									
TSH-0755 X 2-FC-DS	2	2	.125	.551	28	5/8	1/2	BUB-500-FC-DS	8,150
TSH-0755 X 2.5-FC-DS	2-1/2	2-1/2	.125	.551	28	5/8	1/2	BUB-500-FC-DS	8,150
TSH-0755 X 3-FC-DS	3	2	.125	.551	28	5/8	1/2	BUB-500-FC-DS	8,150
TSHF-0755 X 3-FC-DS	3	3	.125	.551	28	5/8	1/2	BUB-500-FC-DS	8,150
3/4-16 Threads									
TSH-0750 X 2-FC-DS	2	2	.125	.551	28	5/8	1/2	BUB-500-FC-DS	8,150
TSH-0750 X 2.5-FC-DS	2-1/2	2-1/2	.125	.551	28	5/8	1/2	BUB-500-FC-DS	8,150
TSH-0750 X 3-FC-DS	3	2	.125	.551	28	5/8	1/2	BUB-500-FC-DS	8,150
TSHF-0750 X 3-FC-DS	3	3	.125	.551	28	5/8	1/2	BUB-500-FC-DS	8,150
1"-8 Threads									
TSH-1108 X 2-FC-DS	2	2	.156	.748	32	3/4	5/8	BUB-600-FC-DS	14,757
TSH-1108 X 3-FC-DS	3	3	.156	.748	32	3/4	5/8	BUB-600-FC-DS	14,757
TSH-1108 X 4-FC-DS	4	2-1/2	.156	.748	32	3/4	5/8	BUB-600-FC-DS	14,757
TSHF-1108 X 4-FC-DS	4	4	.156	.748	32	3/4	5/8	BUB-600-FC-DS	14,757
1"-14 Threads									
TSH-1114 X 2-FC-DS	2	2	.156	.827	32	3/4	3/4	BUB-700-FC-DS	17,210
TSH-1114 X 3-FC-DS	3	3	.156	.827	32	3/4	3/4	BUB-700-FC-DS	17,210
TSH-1114 X 4-FC-DS	4	2-1/2	.156	.827	32	3/4	3/4	BUB-700-FC-DS	17,210
TSHF-1114 X 4-FC-DS	4	4	.156	.827	32	3/4	3/4	BUB-700-FC-DS	17,210

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