

Safety Chuck

**CSB25P, CSB25F, CSB50P, CSB50F,
CSB75P, CSB75F, CSB125P, CSB125F
CSB150P, CSB150F, CSB175P, CSB175F**

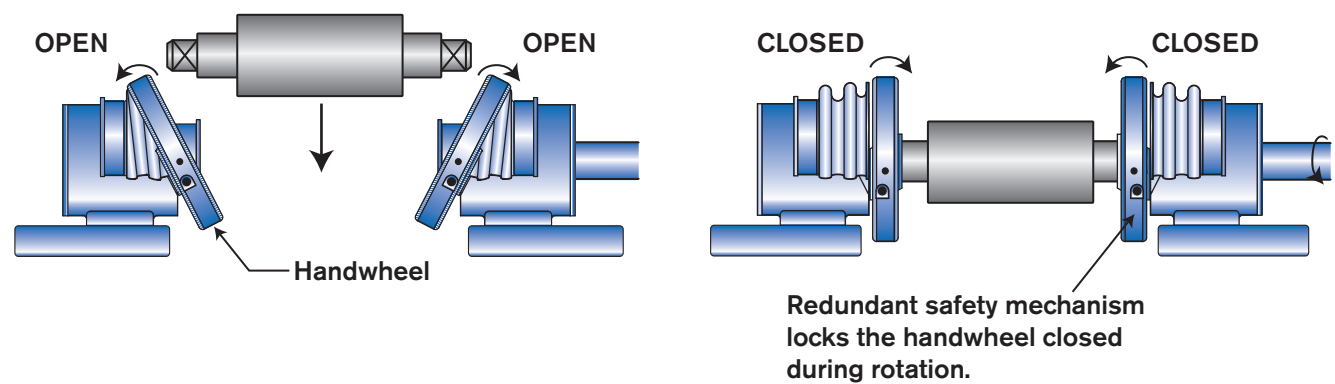
Nexen's line of rugged safety chucks provide roll shaft support and torque transmission at a low cost. The maintenance-free design ensures optimal performance throughout the life of each safety chuck. Nexen's units safe-guard your equipment by securing the roll shaft in place during any wind or unwind operation. Our safety chucks will only open with the socket in the upright position.

Available for either foot or flange mounting, these safety chucks complement Nexen's dependable line of tension control brakes, clutches and electronic tension control systems, offering you a complete package with seamless installation and operation.



- Redundant safety mechanisms securely lock shaft in place
- Long, maintenance-free life
 - Durable construction
 - Cast iron housing
 - Chrome plated, steel handwheel
 - Shaft socket hardened to Rockwell 56C
- Available in ready-to-assemble brake packages
- Manual unlock for most models
- Free turning precision ball bearings
- Finger guards on all models
- Shaft extensions with keyway
- Foot or flange mounting
- Metric size sockets available upon request

Nexen's easy to use safety chucks increase productivity by allowing for quick roll changes. Simply push the handwheel open to insert or remove a roll, then push closed to secure the roll in place. These quick couplings are an essential part of any web operation, adding ease and safety to your process with minimal cost and no maintenance required.



Safety Chuck Application Guide

General Information

Web Velocity	Mpm [fpm]	Roll Weight	Kg [lbs]
Maximum Roll Diameter	mm [inch]	Total Tension of Material (tissue, paper, plastic, etc.)	N [lbs]
Minimum Roll Diameter	mm [inch]	Maximum Torque Transmitted	Nm [in-lbs]
Roll Width	mm [inch]		

Air Shaft Information

Shaft Manufacturer	Shaft Type (lug, ledges, leaf)
Shaft End Type (square, other)	Shaft Material (steel, aluminum, carbon fiber)
Shaft End Size	mm [inch]
	Shaft Weight
	Kg [lbs]

The following data is required to select a safety chuck: maximum rpm, maximum roll weight, maximum torque, and socket size.

Machine Velocity Mpm [fpm]

0.00314 [0.262] x Minimum Roll Diameter mm [inch]

=

Maximum rpm

Maximum Roll Weight Kg [lbs] + Air Shaft Weight Kg [lbs]

=

Maximum Weight Roll and Shaft

Total Tension N [lbs] x Maximum Roll Diameter mm [inch]

2000 [2]

=

Maximum Torque Nm [in-lb]

Square Socket Size

=

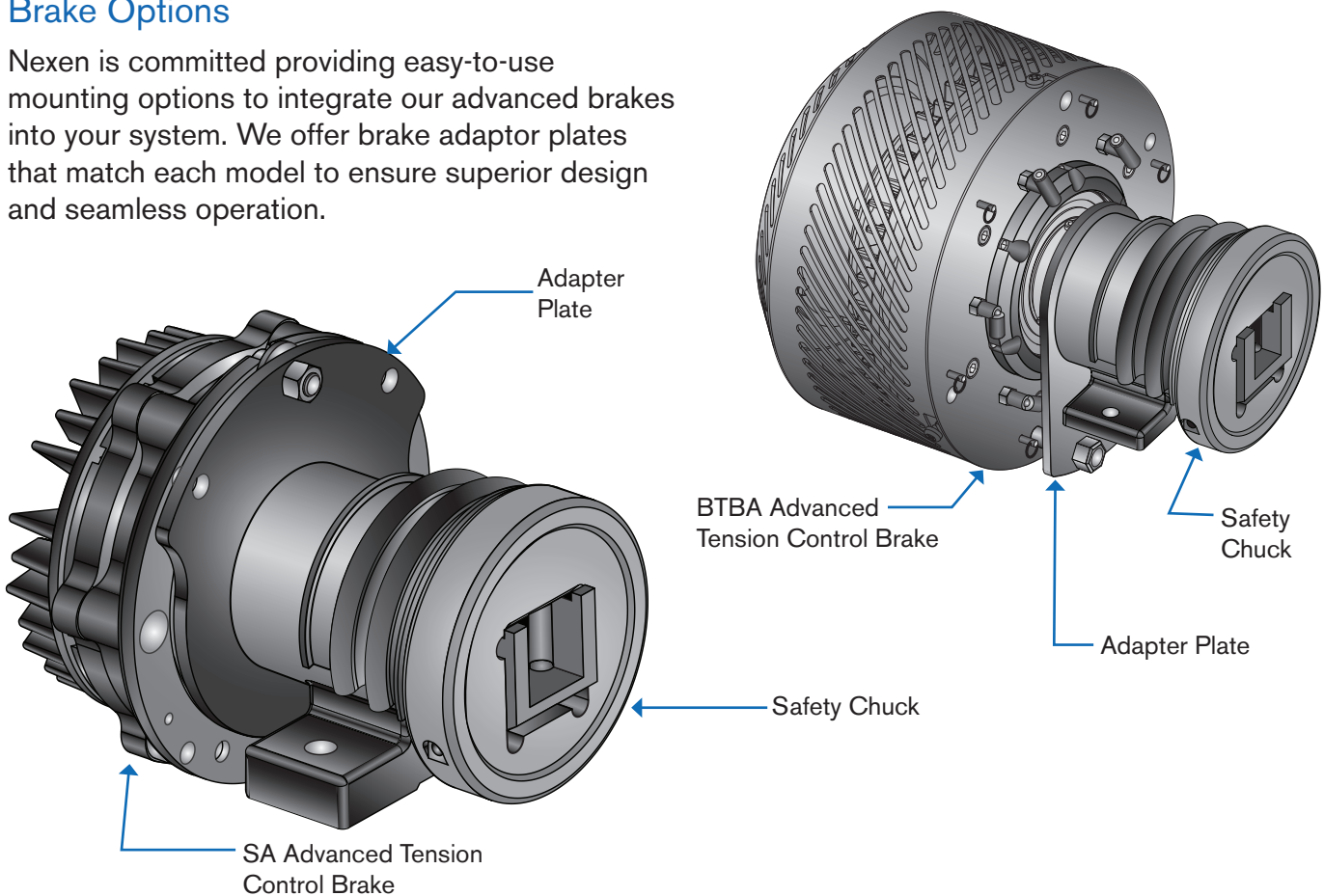
mm [inch]

Safety Chuck Specifications

Type	Model	Socket Type	Max Socket Size	Stocked Socket Size	Stocked Shaft Length	Safety Button	Maximum Weight per Pair	Max RPM	Max Torque	Shipping Weight
Light Duty Tilt Plate	CSB25 (foot or flange)	U [square]	30 mm [1.25 in]	1.00 in	114.4 mm [4.50 in]	no	430 kg [950 lbs]	1300	122 Nm [90 ft-lb]	Foot: 5 kg [12 lbs]
				1.25 in						Flange: 5 kg [10 lbs]
Medium Duty Tilt Plate	CSB50 (foot or flange)	U [square]	30 mm [1.25 in]	1.00 in	127.1 [5.00 in]	no	839 kg [1850 lbs]	1300	176 Nm [130 ft-lb]	Foot: 8 kg [16 lbs]
				1.25 in						Flange: 7 kg [15 lbs]
	CSB75 (foot or flange)	U [square]	50 mm [2.00 in]	1.25 in	142.9 mm [5.63 in]	yes	1633 kg [3600 lbs]	1300	339 Nm [250 ft-lb]	Foot: 14 kg [30 lbs]
				1.50 in						Flange: 13 kg [29 lbs]
	CSB125 (foot or flange)	V [square]	40 mm [1.50 in]	1.25 in	142.9 mm [5.63 in]	yes	1360 kg [3000 lbs]	1000	287 Nm [212 ft-lb]	Foot: 14 kg [31 lbs]
				1.50 in						Flange: 14 kg [30 lbs]
Heavy Duty Tilt Plate	CSB150 (foot or flange)	U [square]	50 mm [2.00 in]	1.25 in	143.0 mm [5.63 in]	yes	3300 kg [7275 lbs]	2000	1300 Nm [959 ft-lb]	Contact Factory
				1.50 in						
				2.00 in						
	CSB175 (foot or flange)	U [square]	80 mm [3.15 in]	2.00 in	143.0 mm [5.63 in]	yes	8400 kg [18500 lbs]	2000	2800 Nm [2065 ft-lb]	Contact Factory
				3.00 in						

Brake Options

Nexen is committed providing easy-to-use mounting options to integrate our advanced brakes into your system. We offer brake adaptor plates that match each model to ensure superior design and seamless operation.



For proper brake selection, please consult the Nexen Product Catalog and the following selection table.

Safety Chucks Designed for Nexen Brakes with Adapter Kits

NOTE: For brakes and adapters to be used with CSB150 and CSB175 Safety Chucks, please consult the factory.

Safety Chuck Model	Socket Size	Socket Type	Shaft Diameter	Safety Button Location	Safety Chuck Part Number	Compatible Brake(s)*	Adaptor Kit Part Number		
CSB25P (P= Foot Mount) □■	1.000 in	U (square)	28.56 mm [1.125 in]	N/A	970128	T&S-450A	960758		
	1.250 in				970130				
	1.000 in				970129	T&S-600A	960759		
	1.250 in				970131				
CSB25F (F= Flange Mount) □■	1.000 in	U (square)	28.56 mm [1.125 in]	N/A	970124	T&S-450A	Contact Nexen		
	1.250 in				970126				
	1.000 in				970125	T&S-600A	Contact Nexen		
	1.250 in				970127				
CSB50P (P= Foot Mount) □■	1.000 in	U (square)	31.75 mm [1.250 in]	N/A	970136	T&S-600A	960759		
	1.250 in				970138				
	1.000 in				970137	T&S-800A	960760		
	1.250 in				970139				
CSB50F (F= Flange Mount) □■	1.000 in	U (square)	31.75 mm [1.250 in]	N/A	970132	T&S-600A	Contact Nexen		
	1.250 in				970134				
	1.000 in				970133	T&S-800A	Contact Nexen		
	1.250 in				970135				
CSB75P (P= Foot Mount) ◆❖	1.250 in	U (square)	34.93 mm [1.375 in]	left side	970152	T&S-800A	960761		
				right side	970153				
	1.500 in			left side	970158			T&S-1000A	960762
				right side	970159				
	1.250 in			left side	970154	T&S-1000A	960762		
				right side	970155				
	1.500 in			left side	970160			T&S-1000A	960762
				right side	970161				
	1.250 in			left side	970156	BTBA-10	960763		
				right side	970157				
	1.500 in			left side	970162			BTBA-10	960763
				right side	970163				
	1.250 in			left side	960726	BTBA-12	960764		
				right side	960728				
	1.500 in			left side	960734			BTBA-12	960764
				right side	960736				
CSB75F (F= Flange Mount) ◆❖	1.250 in	U (square)	34.93 mm [1.375 in]	left side	970140	T&S-800A	960761		
				right side	970141				
	1.500 in			left side	970146			T&S-1000A	960762
				right side	970147				
	1.250 in			left side	970142	T&S-1000A	960762		
				right side	970143				
	1.500 in			left side	970148			T&S-1000A	960762
				right side	970149				

Safety Chuck Model	Socket Size	Socket Type	Shaft Diameter	Safety Button Location	Safety Chuck Part Number	Compatible Brake(s)*	Adaptor Kit Part Number
CSB75F (F= Flange Mount) ◆❖	1.250 in	U (square)	34.93 mm [1.375 in]	left side	970144	BTBA-10	960763
	1.500 in			right side	970145		
				left side	970150		
				right side	970151		
				left side	960730	BTBA-12	960764
	right side			960732			
	left side			960738			
	right side			960740			
CSB125P (P= Foot Mount) ◆❖	1.250 in	V (square)	34.93 mm [1.375 in]	left side	960765	T&S-800A	960761
	1.500 in			right side	970113		
				left side	970118		
				right side	970119		
				left side	970114	T&S-1000A	960762
	right side			970115			
	left side			970120			
	right side			970121			
	left side			970116	BTBA-10	960763	
	right side			970117			
	left side			970122			
	right side			970123			
	left side			960742	BTBA-12	960764	
	right side			960744			
	left side			960746			
	right side			960748			
CSB125F (F= Flange Mount) ◆❖	1.250 in	V (square)	34.93 mm [1.375 in]	left side	970100	T&S-800A	960761
	1.500 in			right side	970101		
				left side	970106		
				right side	970107		
				left side	970102	T&S-1000A	960762
	right side			970103			
	left side			970108			
	right side			970109			
	left side			970104	BTBA-10	960763	
	right side			970105			
	left side			970110			
	right side			970111			
	left side			960750	BTBA-12	960764	
	right side			960752			
	left side			960754			
	right side			960756			

* Brake bore must match safety chuck shaft diameter.

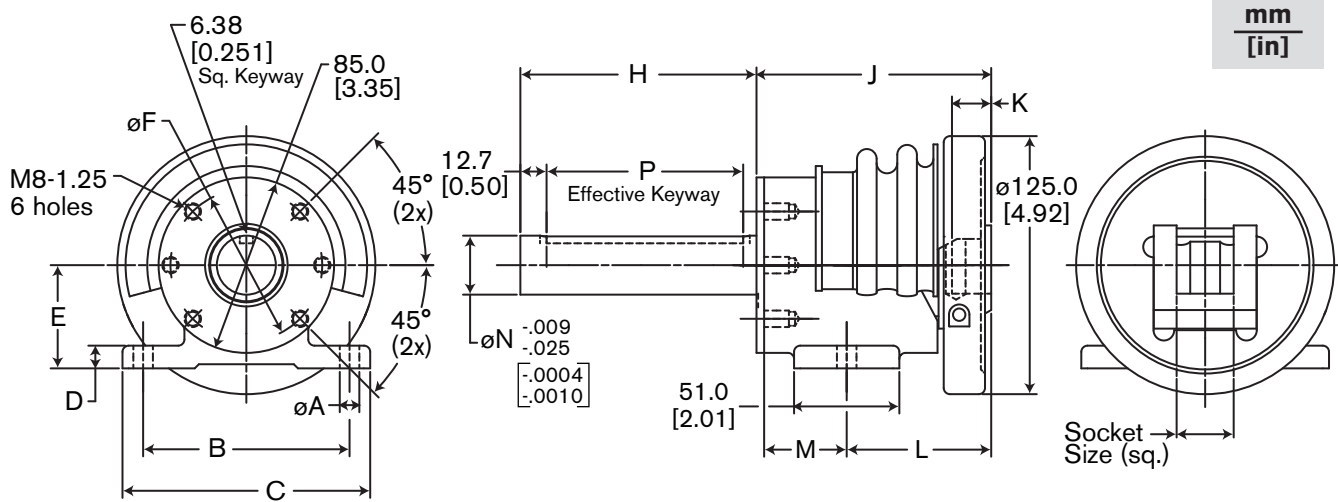
■ See pages 6 and 7 for safety chuck mounting dimensions.

NOTE: Dimension "H" may be less than the value shown based upon model of brake used.

◆❖ See pages 8-11 for safety chuck mounting dimensions.

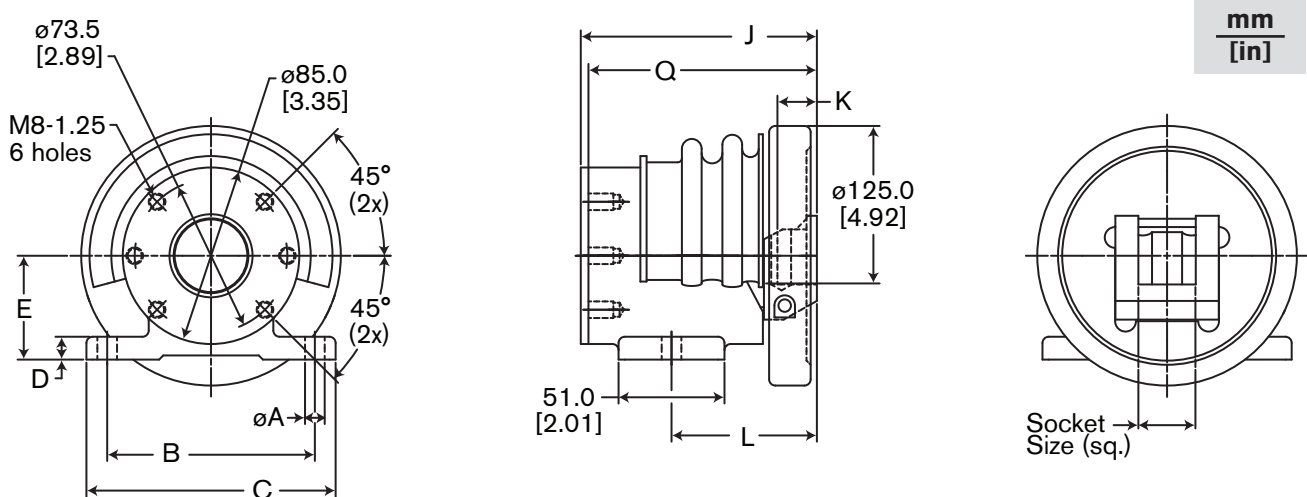
NOTE: Given shaft length of 142.9 mm [5.63 in] may be less based upon model of brake used.

Foot-Mount Safety Chuck with Shaft, Approximate Dimensions



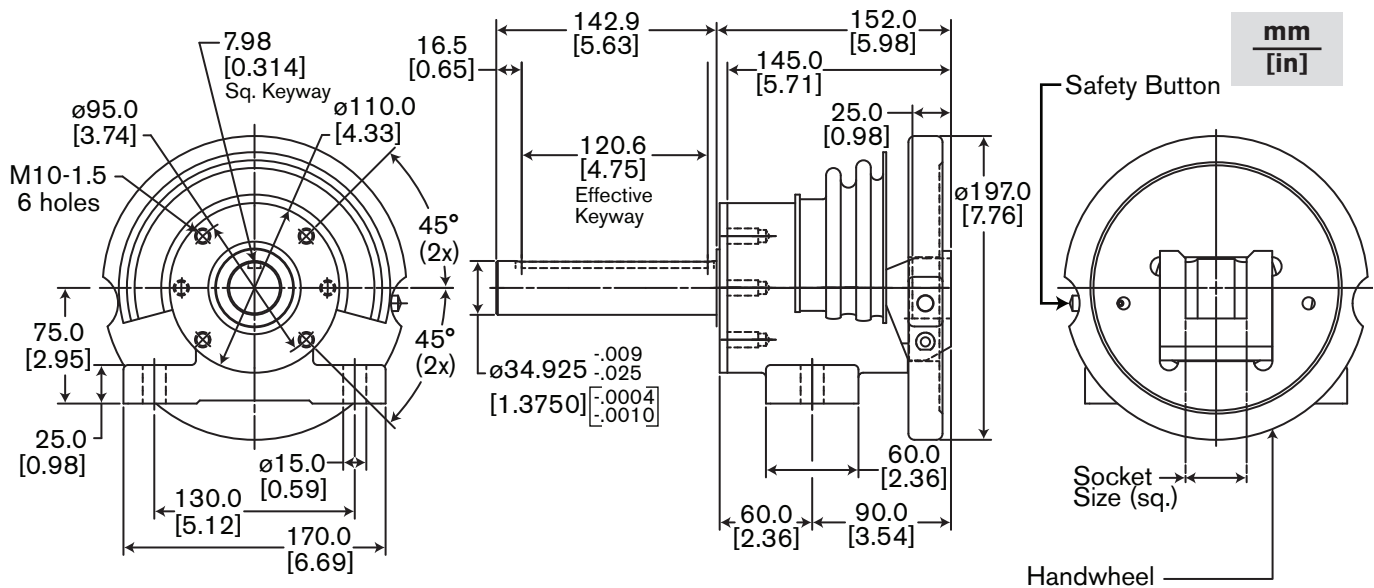
Model	Product Number	Socket Size	ϕA	B	C	D	E	ϕF	H	J	K	L	M	ϕN	P
CSB25P	960710	1.00" U	9.5	100.0	120.0	11.0	50.0	73.5	114.4	113.7	19.0	70.0	40.0	28.575	95.2
	960714	1.25" U	[0.37]	[3.94]	[4.72]	[0.43]	[1.97]	[2.89]	[4.50]	[4.48]	[0.75]	[2.76]	[1.57]	[1.1250]	[3.75]
CSB50P	960718	1.00" U	13.0	105.0	140.0	22.0	65.0	73.5	127.1	134.7	22.0	78.0	53.0	31.750	108.0
	960720	1.25" U	[0.51]	[4.13]	[5.51]	[0.87]	[2.56]	[2.89]	[5.00]	[5.30]	[0.87]	[3.07]	[2.09]	[1.2500]	[4.25]

Foot-Mount Safety Chuck without Shaft, Approximate Dimensions

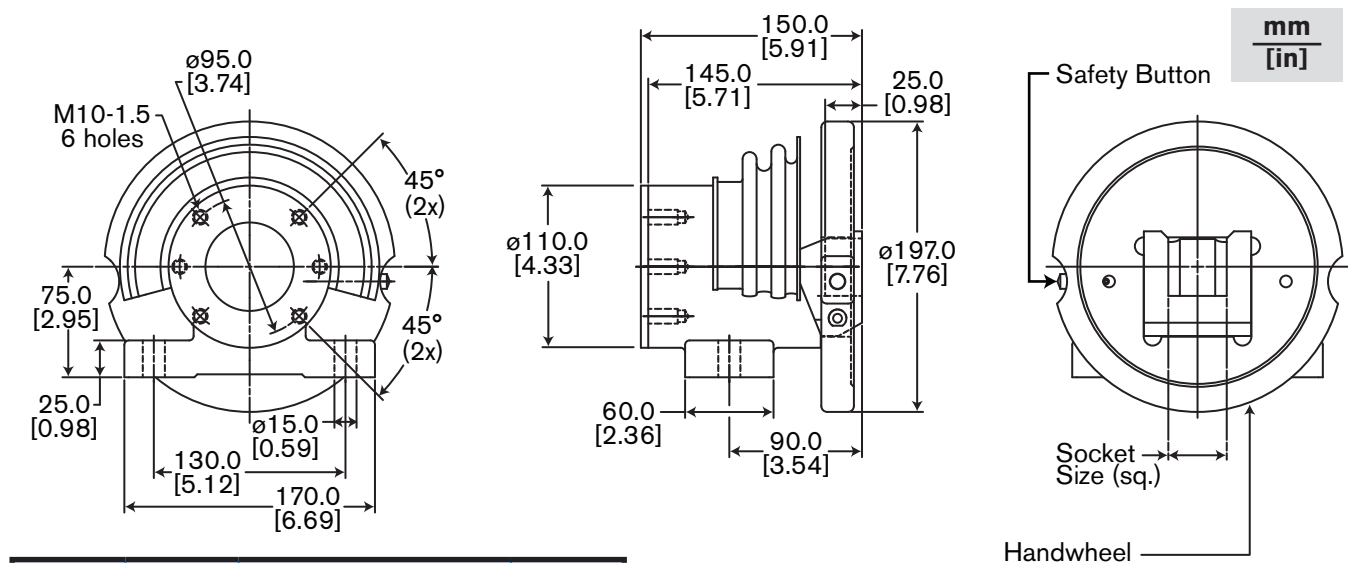


Model	Product Number	Socket Size	ϕA	B	C	D	E	J	Q	K	L
CSB25P	960711	1.00" U	9.5	100.0	120.0	11.0	50.0	113.7	110.0	19.0	70.0
	960715	1.25" U	[0.37]	[3.94]	[4.72]	[0.43]	[1.97]	[4.48]	[4.33]	[0.75]	[2.76]
CSB50P	960719	1.00" U	13.0	105.0	140.0	22.0	65.0	134.7	131.0	22.0	78.0
	960721	1.25" U	[0.51]	[4.13]	[5.51]	[0.87]	[2.56]	[5.30]	[5.16]	[0.87]	[3.07]

Foot-Mount Safety Chuck with Shaft¹, Approximate Dimensions



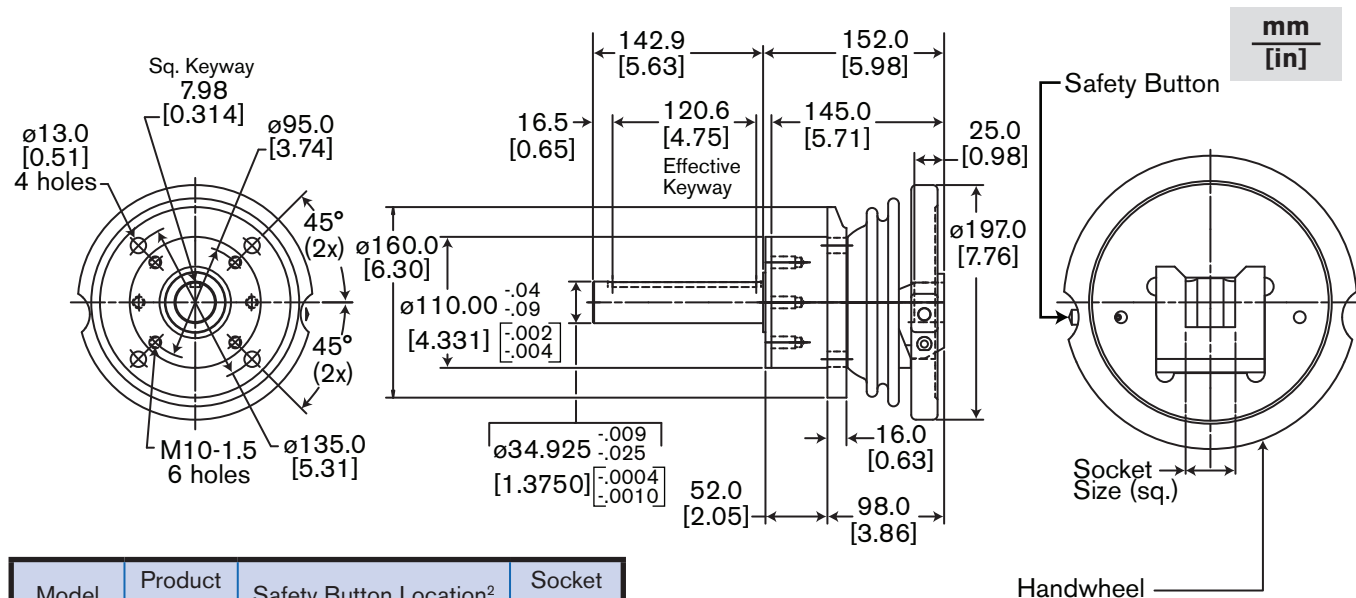
Foot-Mount Safety Chuck without Shaft¹, Approximate Dimensions



¹These models have safety buttons.

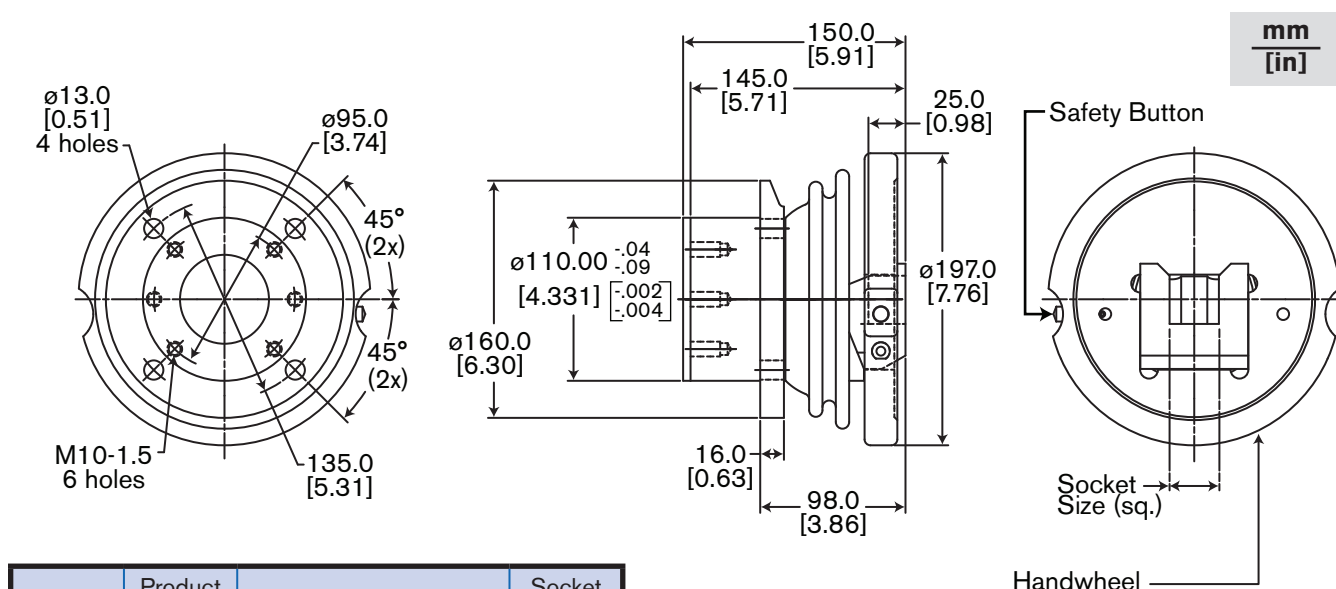
²Location of safety button when facing socket.

Flange-Mount Safety Chuck with Shaft¹, Approximate Dimensions



Model	Product Number	Safety Button Location ²	Socket Size
CSB75F	960730	Left side of handwheel	1.25" U
	960732	Right side of handwheel	
	960738	Left side of handwheel	1.50" U
	960740	Right side of handwheel	

Flange-Mount Safety Chuck without Shaft¹, Approximate Dimensions

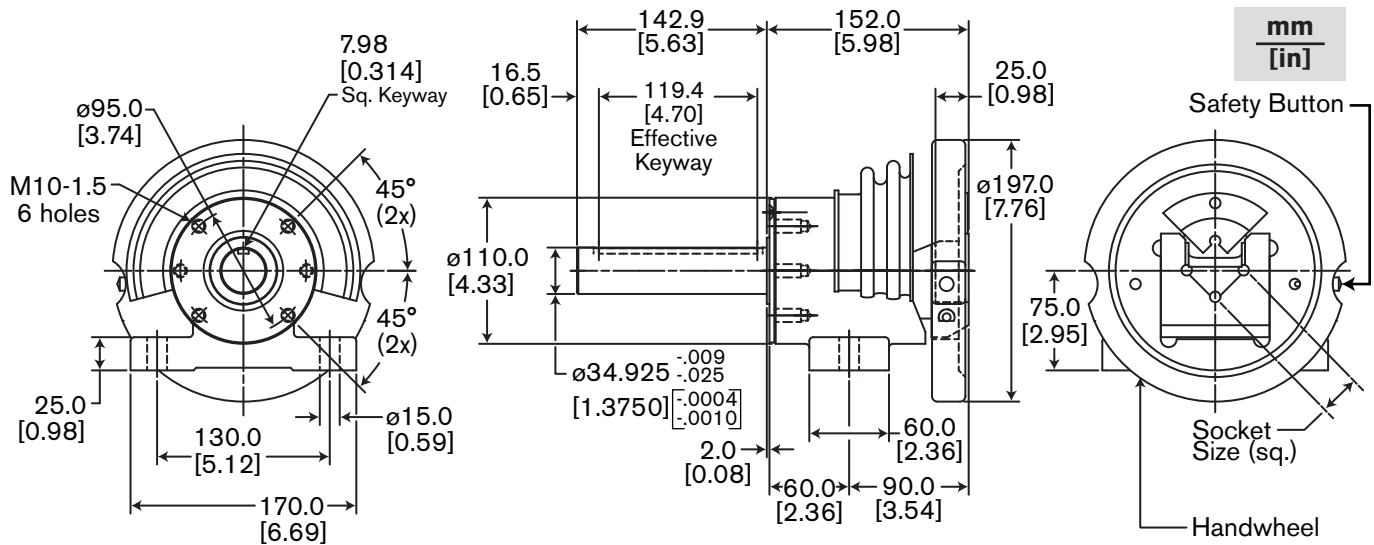


Model	Product Number	Safety Button Location ²	Socket Size
CSB75F	960731	Left side of handwheel	1.25" U
	960733	Right side of handwheel	
	960739	Left side of handwheel	1.50" U
	960741	Right side of handwheel	

¹These models have safety buttons.

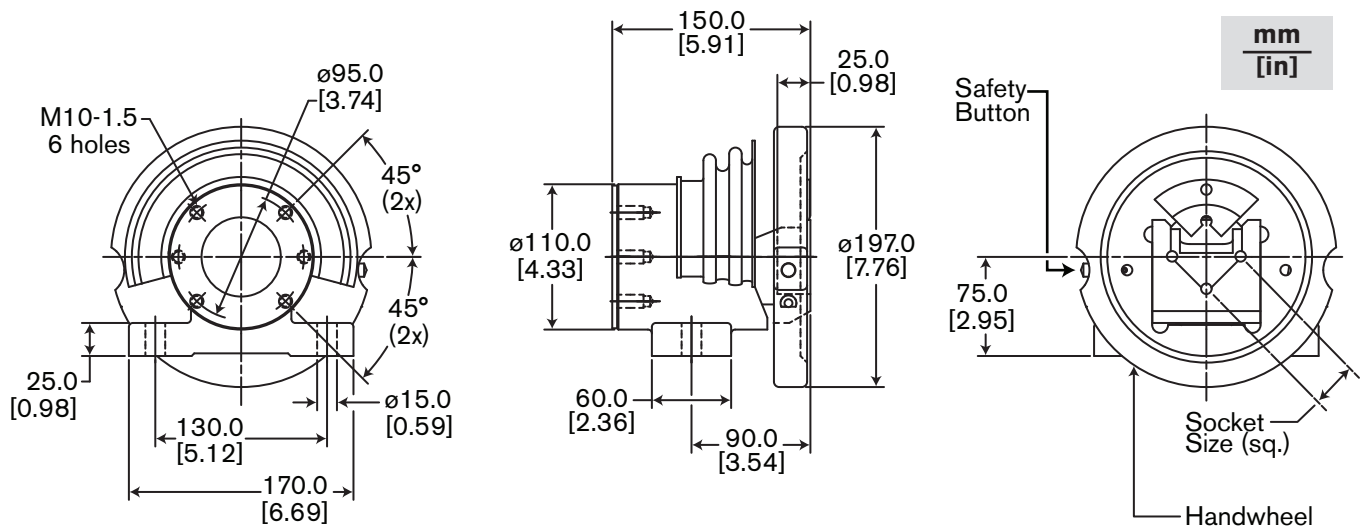
²Location of safety button when facing socket.

Foot-Mount Safety Chuck with Shaft¹, Approximate Dimensions



Model	Product Number	Safety Button Location	Socket Size
CSB125P	960742	Left side of handwheel	1.25" V
	960744	Right side of handwheel	
	960746	Left side of handwheel	1.50" V
	960748	Right side of handwheel	

Foot-Mount Safety Chuck without Shaft¹, Approximate Dimensions

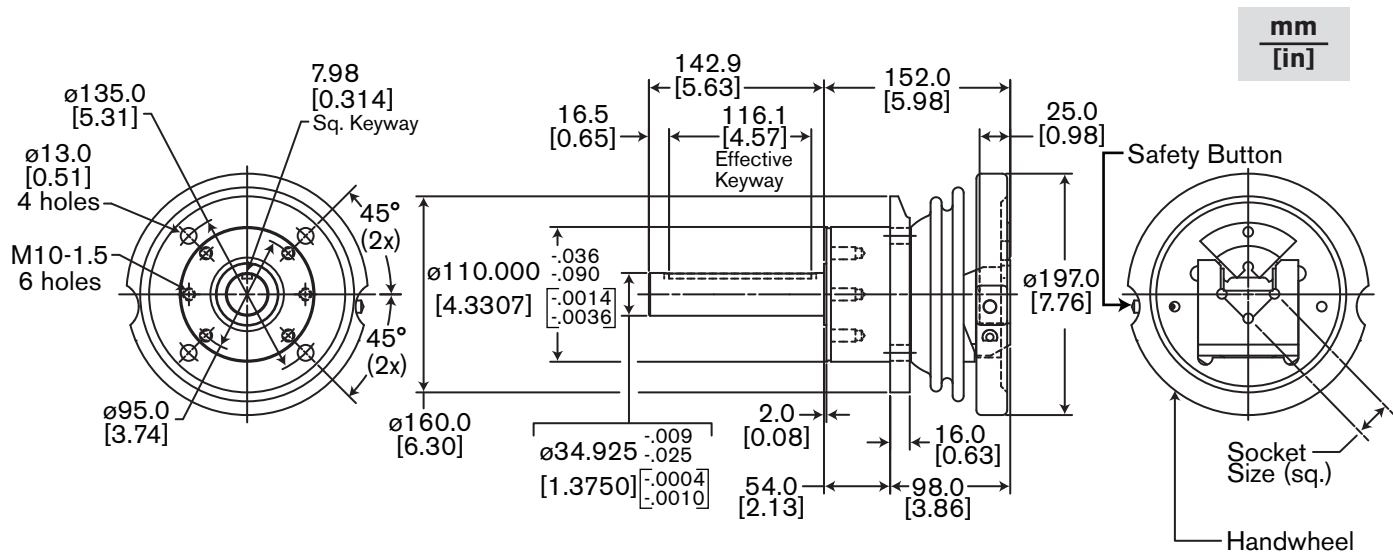


Model	Product Number	Safety Button Location ²	Socket Size
CSB125P	960743	Left side of handwheel	1.25" V
	960745	Right side of handwheel	
	960747	Left side of handwheel	1.50" V
	960749	Right side of handwheel	

¹These models have safety buttons.

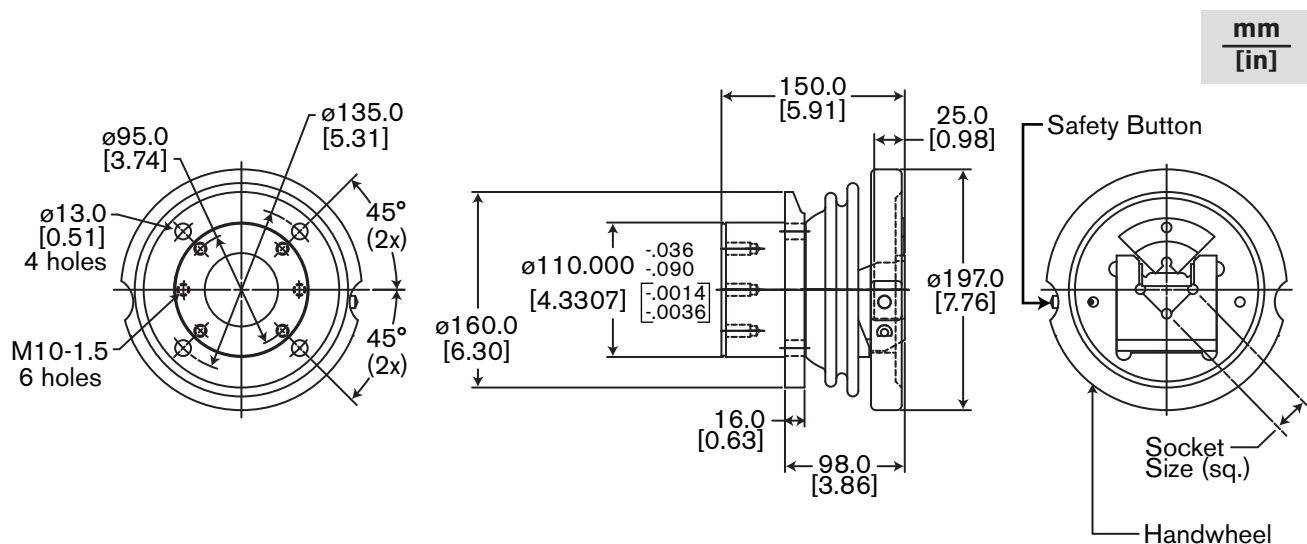
²Location of safety button when facing socket.

Flange-Mount Safety Chuck with Shaft¹, Approximate Dimensions



Model	Product Number	Safety Button Location	Socket Size
CSB125F	960750	Left side of handwheel	1.25" V
	960752	Right side of handwheel	
	960754	Left side of handwheel	1.50" V
	960756	Right side of handwheel	

Flange-Mount Safety Chuck without Shaft¹, Approximate Dimensions

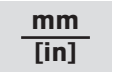


Model	Product Number	Safety Button Location ²	Socket Size
CSB125F	960751	Left side of handwheel	1.25" V
	960753	Right side of handwheel	
	960755	Left side of handwheel	1.50" V
	960757	Right side of handwheel	

¹These models have safety buttons.

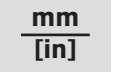
²Location of safety button when facing socket.

Foot-Mount Safety Chuck with Shaft¹, Approximate Dimensions



Model	Product Number	Safety Button Location ²	Socket Size
CSB150P	970176	Left side of handwheel	1.25" U
	970184	Right side of handwheel	
	970192	Left side of handwheel	1.50" U
	970200	Right side of handwheel	
	970208	Left side of handwheel	2.00" U
	970216	Right side of handwheel	

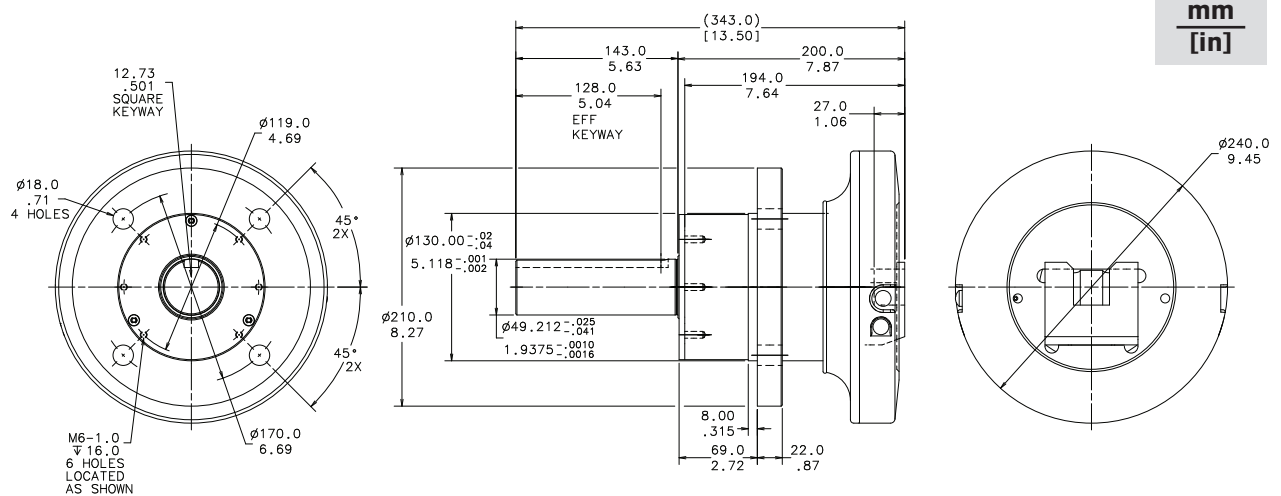
Foot-Mount Safety Chuck without Shaft¹, Approximate Dimensions



Model	Product Number	Safety Button Location ²	Socket Size
CSB150P	970180	Left side of handwheel	1.25" U
	970188	Right side of handwheel	
	970196	Left side of handwheel	1.50" U
	970204	Right side of handwheel	
	970212	Left side of handwheel	2.00" U
	970220	Right side of handwheel	

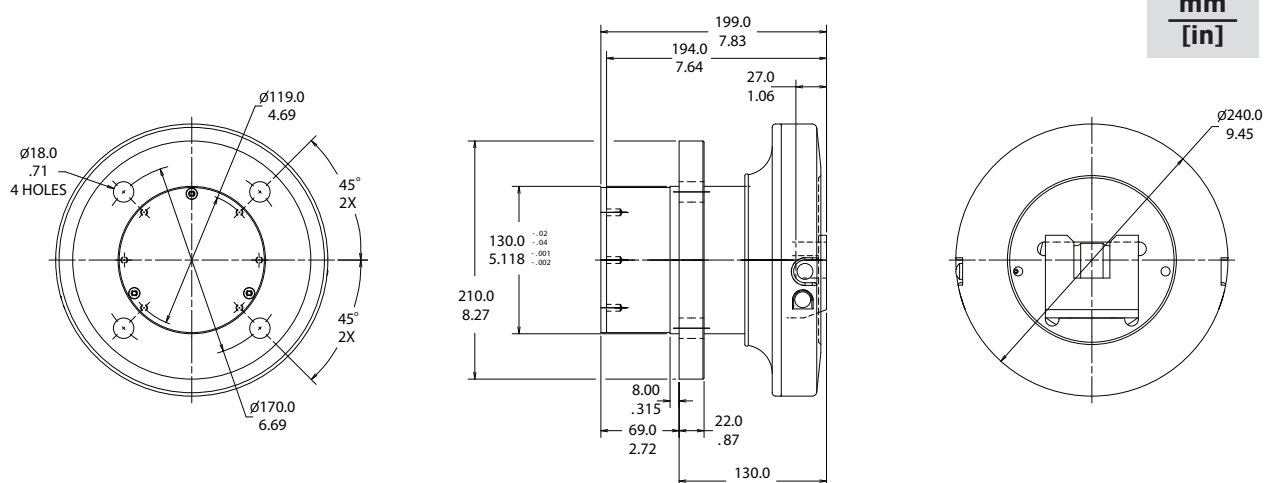
²Location of safety button when facing socket.

Flange-Mount Safety Chuck with Shaft¹, Approximate Dimensions



Model	Product Number	Safety Button Location ²	Socket Size
CSB150F	970174	Left side of handwheel	1.25" U
	970182	Right side of handwheel	
	970190	Left side of handwheel	1.50" U
	970198	Right side of handwheel	
	970206	Left side of handwheel	2.00" U
	970214	Right side of handwheel	

Flange-Mount Safety Chuck without Shaft¹, Approximate Dimensions

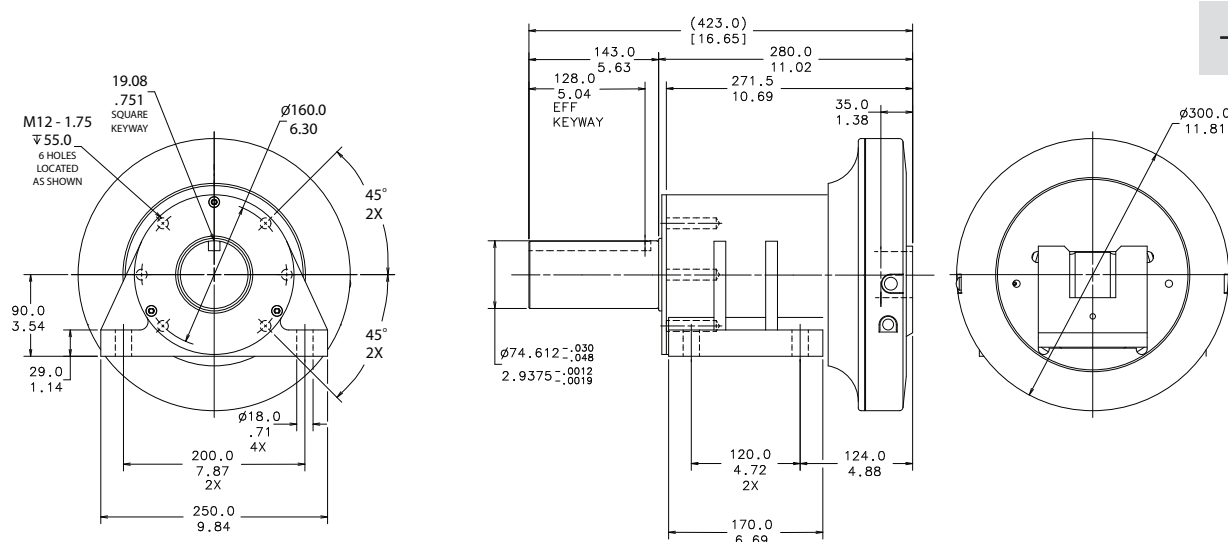


Model	Product Number	Safety Button Location ²	Socket Size
CSB150F	970178	Left side of handwheel	1.25" U
	970186	Right side of handwheel	
	970194	Left side of handwheel	1.50" U
	970202	Right side of handwheel	
	970210	Left side of handwheel	2.00" U
	970218	Right side of handwheel	

¹These models have safety buttons.

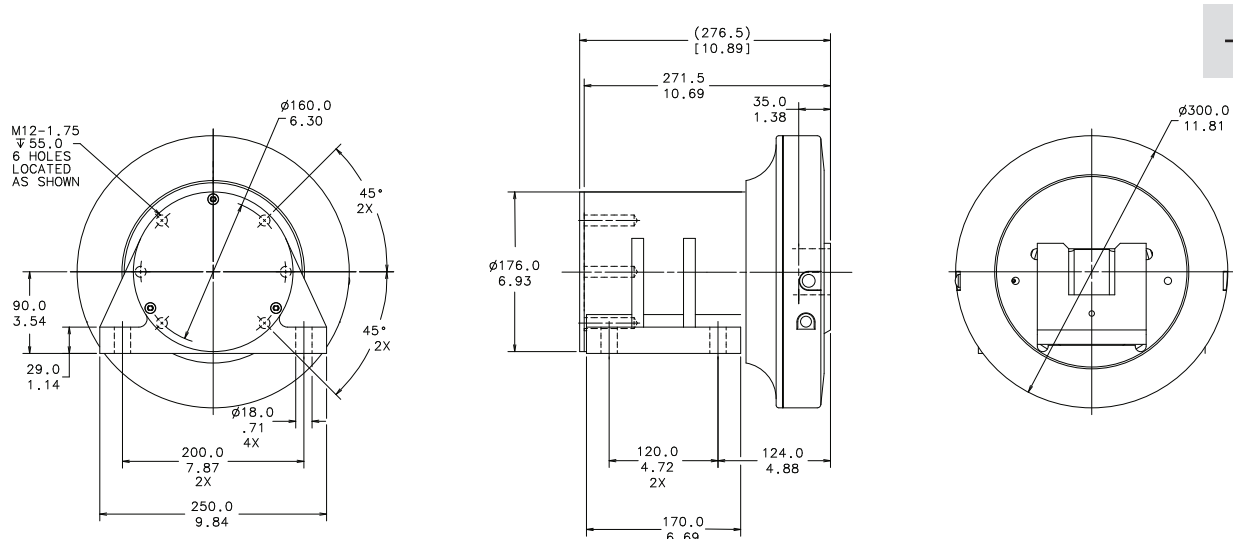
²Location of safety button when facing socket.

Foot-Mount Safety Chuck with Shaft¹, Approximate Dimensions



Model	Product Number	Safety Button Location ²	Socket Size
CSB175P	970224	Left side of handwheel	2.00" U
	970232	Right side of handwheel	
	970240	Left side of handwheel	3.00" U
	970248	Right side of handwheel	

Foot-Mount Safety Chuck without Shaft¹, Approximate Dimensions

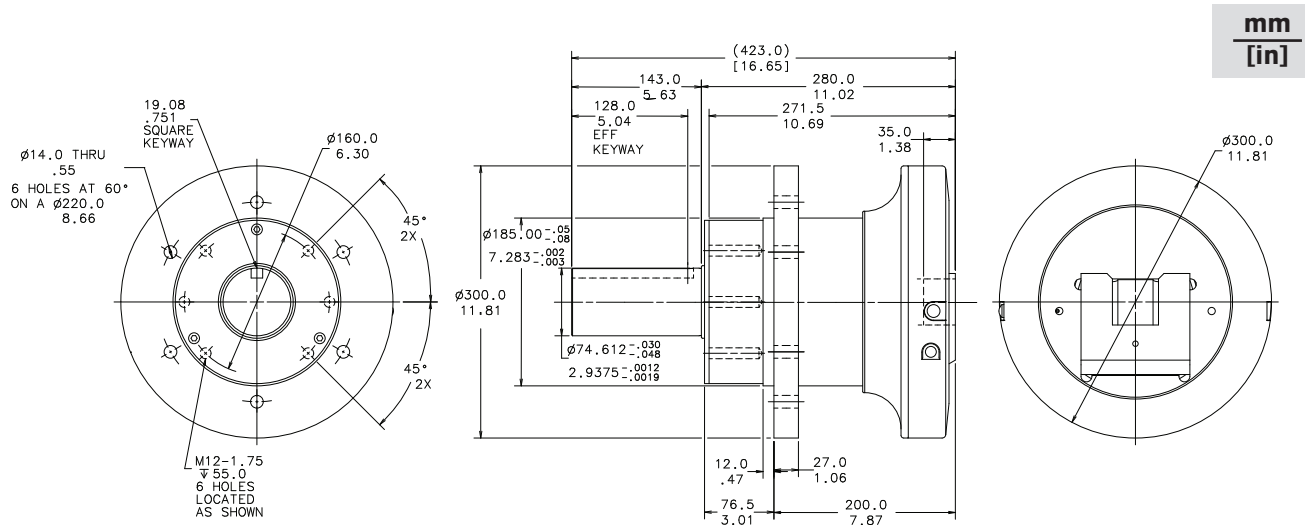


Model	Product Number	Safety Button Location ²	Socket Size
CSB175P	970228	Left side of handwheel	2.00" U
	970236	Right side of handwheel	
	970244	Left side of handwheel	3.00" U
	970252	Right side of handwheel	

¹These models have safety buttons.

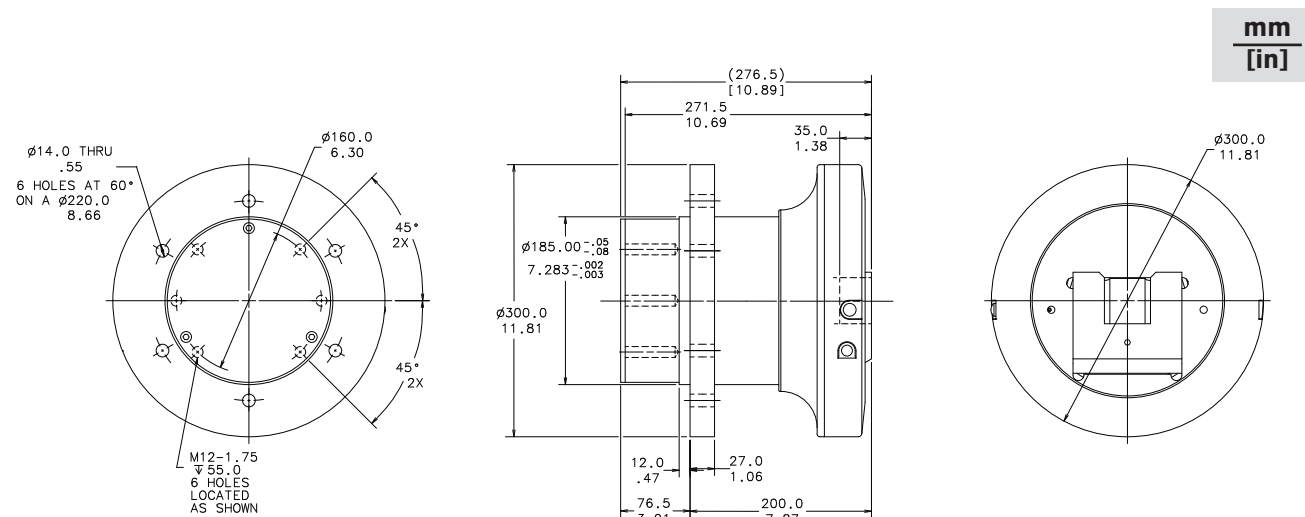
²Location of safety button when facing socket.

Flange-Mount Safety Chuck with Shaft¹, Approximate Dimensions



Model	Product Number	Safety Button Location ²	Socket Size
CSB175F	970222	Left side of handwheel	2.00" U
	970230	Right side of handwheel	
	970238	Left side of handwheel	3.00" U
	970246	Right side of handwheel	

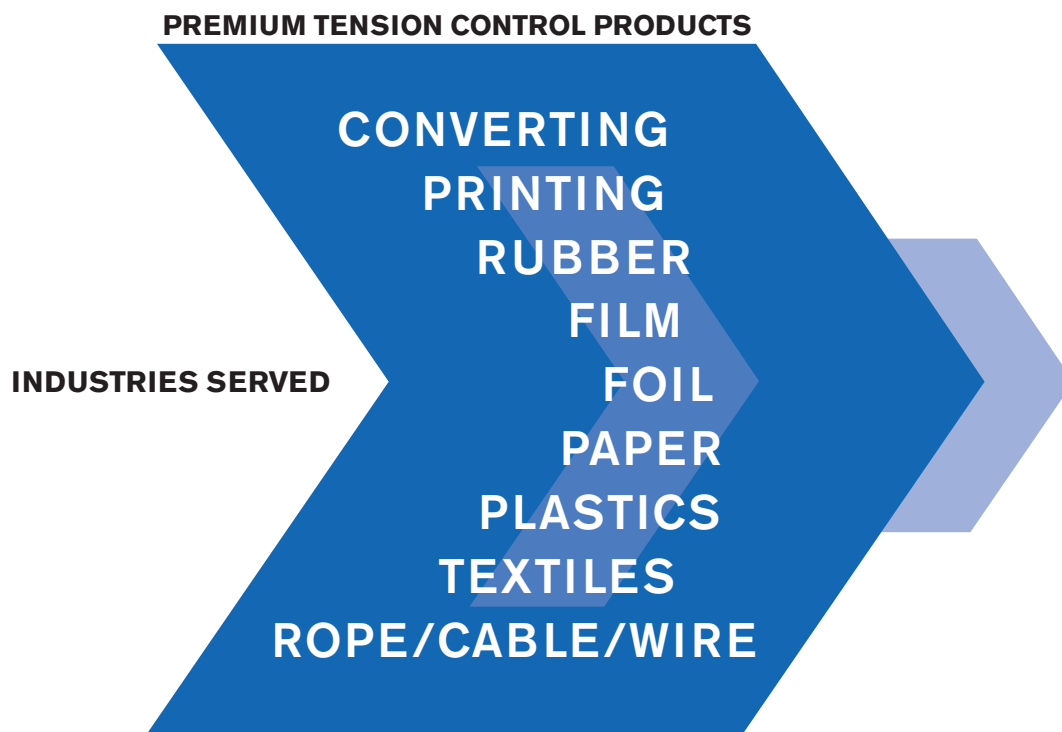
Flange-Mount Safety Chuck without Shaft¹, Approximate Dimensions



Model	Product Number	Safety Button Location ²	Socket Size
CSB175F	970226	Left side of handwheel	2.00" U
	970234	Right side of handwheel	
	970242	Left side of handwheel	3.00" U
	970250	Right side of handwheel	

¹These models have safety buttons.

²Location of safety button when facing socket.



In accordance with Nexen's established policy of constant product improvement, the specifications contained in this document are subject to change without notice. Technical data listed in this document are based on the latest information available at the time of printing and are also subject to change without notice. For current information, please consult www.nexengroup.com

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