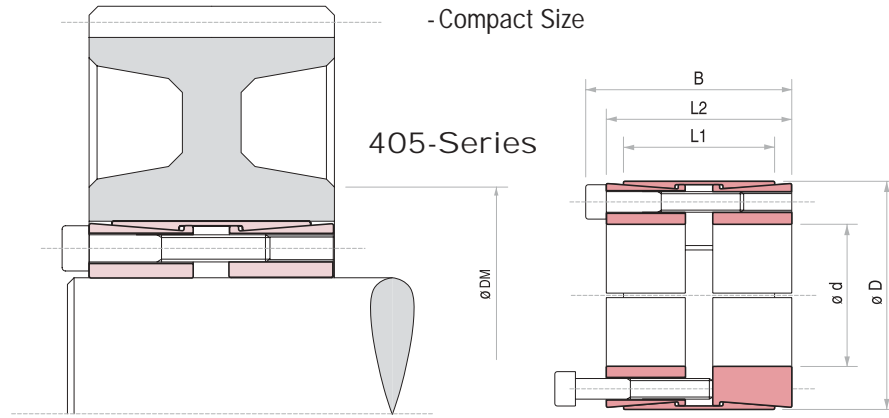


KEYLESS LOCKING ASSEMBLIES VERY-HIGH TORQUE 405-SERIES

- Capacity To Withstand Bending Movement
- Excellent For Bulk Handling Applications Such As Drum Pulleys.
- Compact Size



405 INCH	ID	ID	OD	Length		Length Incl.cap	MS Screw	Torque Seating	Torque (max.)	Axial Load (max.)	Shaft Pressure	Hub Pressure	Weight (approx.)
				L1	L2								
Climax Part #	d inch	d inch	D inch	L1 inch	L2 inch	B inch	n x type	Lb-ft	Lb-ft	Lbf	psi	psi	Lb
C405E-100	1	1.0000	2.165	1.535	1.772	2.008	8 x M6	13	826	20239	34965	16147	1
C405E-118	1 3/16	1.1875	2.165	1.535	1.772	2.008	8 x M6	13	981	20239	29444	16147	1
C405E-125	1 1/4	1.2500	2.362	1.535	1.772	2.008	8 x M6	13	1033	20239	27972	14802	2
C405E-137	1 3/8	1.3750	2.362	1.535	1.772	2.008	8 x M6	13	1137	20239	25429	14802	2
C405E-143	1 7/16	1.4375	2.362	1.535	1.772	2.008	8 x M6	13	1188	20239	24323	14802	2
C405E-150	1 1/2	1.5000	2.953	2.205	2.520	2.835	8 x M8	30	2290	37394	29994	15237	2
C405E-162	1 5/8	1.6250	2.953	2.205	2.520	2.835	8 x M8	30	2481	37394	27687	15237	2
C405E-175	1 3/4	1.7500	2.953	2.205	2.520	2.835	8 x M8	30	2672	37394	25709	15237	2
C405E-187	1 7/8	1.8750	3.150	2.205	2.520	2.835	8 x M8	30	2863	37394	23996	14285	3
C405E-193	1 15/16	1.9375	3.150	2.205	2.520	2.835	8 x M8	30	2959	37394	23221	14285	3
C405E-200	2	2.0000	3.150	2.205	2.520	2.835	8 x M8	30	3054	37394	22496	14285	3
C405E-212	2 1/8	2.1250	3.346	2.205	2.520	2.835	8 x M8	30	3245	37394	21173	13445	3
C405E-218	2 3/16	2.1875	3.346	2.205	2.520	2.835	8 x M8	30	3340	37394	20568	13445	3
C405E-225	2 1/4	2.2500	3.543	2.205	2.520	2.835	10 x M8	30	4294	46743	24995	15872	4
C405E-237	2 3/8	2.3750	3.543	2.205	2.520	2.835	10 x M8	30	4533	46743	23680	15872	4
C405E-243	2 7/16	2.4375	3.740	2.205	2.520	2.835	10 x M8	30	4652	46743	23073	15037	4
C405E-250	2 1/2	2.5000	3.740	2.205	2.520	2.835	10 x M8	30	4772	46743	22496	15037	4
C405E-256	2 9/16	2.5625	3.740	2.205	2.520	2.835	10 x M8	30	4891	46743	21947	15037	4
C405E-262	2 5/8	2.6250	4.331	2.756	3.071	3.465	10 x M10	61	7956	74219	27215	16496	7
C405E-268	2 11/16	2.6875	4.331	2.756	3.071	3.465	10 x M10	61	8145	74219	26582	16496	7
C405E-275	2 3/4	2.7500	4.331	2.756	3.071	3.465	10 x M10	61	8334	74219	25978	16496	7
C405E-287	2 7/8	2.8750	4.331	2.756	3.071	3.465	10 x M10	61	8713	74219	24848	16496	7
C405E-293	2 15/16	2.9375	4.724	2.756	3.071	3.465	12 x M10	61	10683	89063	29183	18145	8
C405E-300	3	3.0000	4.724	2.756	3.071	3.465	12 x M10	61	10910	89063	28575	18145	8
C405E-312	3 1/8	3.1250	4.724	2.756	3.071	3.465	12 x M10	61	11365	89063	27432	18145	8
C405E-325	3 1/4	3.2500	4.724	2.756	3.071	3.465	12 x M10	61	11820	89063	26377	18145	8
C405E-337	3 3/8	3.3750	5.118	2.756	3.071	3.465	12 x M10	61	12274	89063	25400	16750	8
C405E-343	3 7/16	3.4375	5.118	2.756	3.071	3.465	12 x M10	61	12501	89063	24938	16750	8
C405E-300	3 1/2	3.5000	5.118	2.756	3.071	3.465	12 x M10	61	12728	89063	24493	16750	8
C405E-362	3 5/8	3.6250	5.118	2.756	3.071	3.465	12 x M10	61	13183	89063	23649	16750	8
C405E-375	3 3/4	3.7500	5.709	3.543	3.937	4.409	12 x M12	107	19857	129674	25888	17006	13
C405E-387	3 7/8	3.8750	5.709	3.543	3.937	4.409	12 x M12	107	20518	129674	25053	17006	13
C405E-393	3 15/16	3.9375	5.709	3.543	3.937	4.409	12 x M12	107	20850	129674	24655	17006	13
C405E-400	4	4.0000	5.709	3.543	3.937	4.409	12 x M12	107	21180	129674	24270	17006	13

NOTE: Stocked sizes available through 8" diameter.

It is possible to reduce the screws tightening torque down to 60% of the values indicated in the above table; as a result the Mt, Fax, Ps, Ph are reduced proportionally.

KEYLESS LOCKING ASSEMBLIES VERY-HIGH TORQUE 405-SERIES

- Capacity To Withstand Bending Movement
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Installation

Carefully clean the hub and shaft contact surfaces and apply a thin film of lightweight oil. Slide the locking assembly into the hub bore and insert the shaft. Tighten gradually and regularly in crossed sequence all screws up to 50% of the Ms value indicated in the rating table. Repeat the same operation by tightening all screws at the Ms torque indicated in the rating table.

Starting from the last tightened screw, check, in continuous sequence, that all the screws are tightened at the tightening torque Ms indicated. Repeat this procedure maximum twice. Do not use any oil with molybdenum bisulphide, high pressure additives or grease. Above substances notably reduce the coefficient of friction.

Dismantling

Loosen the clamping screws. Insert the screws into the dismantling threads of the front cone and tighten them gradually in crossed sequence up to 50% of the Ms value indicated in the rating table. Repeat the same operation by tightening the screws at the tightening torque Ms indicated in the rating table. When the front cone is loose, to release the rear cone keep tightening the screws and repeat the sequence above.

Ideal for Component to Shaft Connections
Due to their ability to transmit large amounts of torque, our Keyless Locking Assemblies are the ideal way to connect components to a shaft, such as pulleys, gears and sprockets. They offer a superior alternative to a shaft/hub connection such as key, splined, press fit, QD bushing or Taper Lock Bushing.

Tolerances, surface finish

A good machined surface finish is sufficient.
Maximum allowable surface finish:

Rt max 16 μm (Ra 3 μm - Rz 13 μm)

Maximum permissible tolerances:

h8 for shaft (\varnothing d)

H8 for hub (\varnothing D)

For exact tolerance values and DM hub calculation see page 3.

405 METRIC	ID	ID	OD	Length				Length Incl.cap	Screw Size	MS Screw Seating Torque	Torque (max.)	Axial Load (max.)	Shaft Pressure	Hub Pressure	Weight (approx.)
				L1	L2	B	Size								
Climax Part #	d x D mm	d inch	D inch	L1 inch	L2 inch	B inch	n x type								
C405M-25x50	25 x 50	0.984	1.969	1.535	1.772	2.008	8 x M6	13	701	17086	35534	17695	1		
C405M-28x55	28 x 55	1.102	2.165	1.535	1.772	2.008	8 x M6	13	789	17086	31763	16099	1		
C405M-30x55	30 x 55	1.181	2.165	1.535	1.772	2.008	8 x M6	13	848	17086	29588	16099	1		
C405M-35x60	35 x 60	1.378	2.362	1.535	1.772	2.008	8 x M6	13	988	17086	25382	14794	2		
C405M-38x65	38 x 65	1.496	2.559	1.535	1.772	2.008	8 x M6	13	1069	17086	23351	13634	2		
C405M-40x65	40 x 65	1.575	2.559	1.535	1.772	2.008	8 x M6	13	1128	17086	22191	13634	2		
C405M-42x75	42 x 75	1.654	2.953	2.205	2.520	2.835	8 x M8	30	2191	31698	27267	15229	2		
C405M-45x75	45 x 75	1.772	2.953	2.205	2.520	2.835	8 x M8	30	2323	31698	25382	15229	2		
C405M-48x80	48 x 80	1.890	3.150	2.205	2.520	2.835	8 x M8	30	2950	37318	23786	14214	3		
C405M-50x80	50 x 80	1.969	3.150	2.205	2.520	2.835	8 x M8	30	3061	37318	22916	14214	3		
C405M-55x85	55 x 85	2.165	3.346	2.205	2.520	2.835	8 x M8	30	3356	37318	20740	13489	3		
C405M-60x90	60 x 90	2.362	3.543	2.205	2.520	2.835	10 x M8	30	4573	46536	23786	15809	4		
C405M-65x95	65 x 95	2.559	3.740	2.205	2.520	2.835	10 x M8	30	4979	46536	22046	15084	4		
C405M-70x110	70 x 110	2.756	4.331	2.756	3.071	3.465	10 x M10	61	8519	74187	25962	16534	7		
C405M-75x115	75 x 115	2.953	4.528	2.756	3.071	3.465	10 x M10	61	9109	74187	24221	15809	7		
C405M-80x120	80 x 120	3.150	4.724	2.756	3.071	3.465	12 x M10	61	11653	89025	27267	18130	8		
C405M-85x125	85 x 125	3.346	4.921	2.756	3.071	3.465	12 x M10	61	12391	89025	25672	17405	8		
C405M-90x130	90 x 130	3.543	5.118	2.756	3.071	3.465	12 x M10	61	13129	89025	24221	16679	8		
C405M-95x135	95 x 135	3.740	5.315	2.756	3.071	3.465	12 x M10	61	13866	89025	22916	16099	11		

NOTE: Stocked sizes available in larger diameters.

It is possible to reduce the screws tightening torque down to 60% of the values indicated in the above table; as a result the Mt, Fax, Ps, Ph are reduced proportionally.