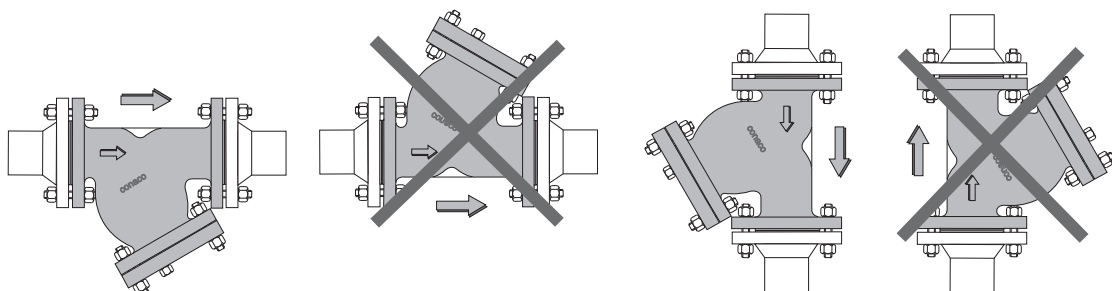


CONACO STRAINERS DIVISION™ Strainers 'Y' Type Strainers Installation Instructions

1. Make sure, checking the tag marking and the rating cast on the body, that the strainer is suitable for the required service.
2. The following hazards shall be considered by and are sole responsibility of the end user or installer of the strainer:
 - Extent of external loads, either applied to the body or the connections of the strainer;
 - Corrosion adequacy of the strainer material to the handled fluid;
 - Presence of uncontrolled chemical reactions;
 - Erosion due to environmental conditions.
3. Before installation carefully inspect the strainer for possible damage during transport or handling.
If the end protections are missing or broken, the inside of the strainer must be checked for foreign objects that may have fallen inside it. Refer to the appropriate Conaco Strainers Division™ 'Y' Strainers Maintenance Instructions I.02/... for the specific type of strainer.
4. Strainers should be installed as close as possible to the machinery or valve to be protected. The arrow cast or painted on the strainer body must point to the direction of the flow.
For installation on horizontal or inclined pipelines, screen housing must be below the pipeline.
Never install a 'Y' type strainer on vertical pipelines with flow directed upwards. Refer to the figures below.
5. Install strainers with flanged ends on the pipeline using companion flanges, gaskets and fasteners corresponding to the strainer flanged ends and suitable for the fluid to be filtered. Strainers with welding ends will have to be welded to the pipeline using the appropriate procedure. Strainers with female threaded ends shall be screwed on the corresponding male thread of the pipeline. Make sure that the strainer is properly supported to avoid stressing of the pipeline and strainer's nozzles.
6. Make sure that all bolts and plugs are properly tightened.
7. Slowly give pressure to the line, checking for leaks.
8. It is recommended to perform a complete maintenance check after the start-up or whenever the pressure drop is found in excess of normal figures. Refer to the appropriate Conaco Strainers Division™ 'Y' Strainers Maintenance Instructions I.02/... for the specific type of strainer.





conaco

a division of Inoxfucine S.p.A.

Via Polenghi, 5 – Loc. Belgiardino 26836 (LO) – Italy

Tel +39-0371-68518 .

DOC. No I.02/707

Rev. 7

Date 12/04/2018

Page 1 of 3

CONACO STRAINERS DIVISION™ Strainers Cast 'Y' Type Strainers Maintenance Instructions For all Type 777 and Type 707.1, 707.2, 707.3, 707.4, 707.5 & 707.6 (with flanged cover)

1. Strainer complete maintenance should be made at least once a year, or whenever the pressure drop is found to be in excess of the normal figures. As a general rule, a pressure drop in excess of 0.1 bar should alert for possible screen damage; unless otherwise stated in the design documents, the strainer shall be cleaned before the pressure drop reaches 0.5 bar.
2. A quick emergency clean-up is performed by blowing off small impurities through the drain hole if a blow-off valve is fitted instead of the drain plug (6). This operation is not an alternative to the complete maintenance procedure. For a complete maintenance procedure, go to step 3. For removal of the temporary start-up wire mesh (if fitted) go to step 4.

3. Complete maintenance procedure. Refer to the figure below.

3.1. Be sure that the line has been shut-off

3.2. Unscrew cover bolts and nuts (4) and remove the cover flange (3) and the gasket (5).

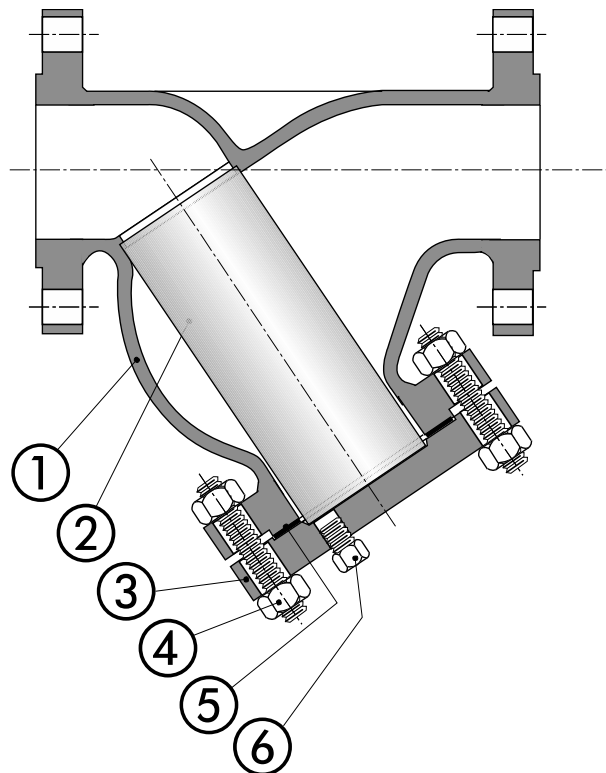
3.3. Some strainers designed for constrained areas are equipped with a two-piece filtering element. For these elements please refer to step 3.3.a at the end of this instructions.

3.4. Extract the filtering element (2) and carefully inspect it for damages. If any hole in the screen is found obstructed, clean it with compressed air and/or any suitable tool. If the screen is broken in any part or out of shape, replace it with a new spare one, verifying that it is of the correct filtration degree and material. **Never reinstall a broken or distorted filtering element!**

3.5. Carefully clean the inside of the strainer body.

3.6. Fit a new gasket (5).

3.7. Install the new filtering element or the old cleaned one (2). Be sure to properly align the filtering





conaco

a division of **Inoxfucine** S.p.A.

Via Polenghi, 5 – Loc. Belgiardino 26836 (LO) – Italy

Tel +39-0371-68518 .

DOC. No I.02/707

Rev. 7

Date 12/04/2018

Page 2 of 3

- element on his upper seat. For the special two-piece element, reverse step 3.3.a instructions.
- 3.8. Put in place the cover flange (3) making sure that the drain plug or valve (6) is in the lower position and tighten the nuts and bolts (4). Refer to attached torque values.
 - 3.9. Slowly give pressure to the line, checking for any leak.
 - 3.10. Write on the strainer body or tag the date of this maintenance operation.
4. Some strainers may be fitted with a temporary wire mesh to be removed after start-up or whenever decided by the facility owner/manager. To remove the temporary wire mesh, follow the following steps, referring to the above and below figures:
- 4.1. Be sure that the line has been shut-off
 - 4.2. Unscrew cover bolts and nuts (4) and remove the cover flange (3) and the gasket (5).
 - 4.3. Slide off the filtering element (2) The temporary wire mesh (8) is spot welded to the perforated plate (7).
 - 4.4. Using heavy scissors, cut the wire mesh (8) around and as close as possible to the spot welded areas and extract it from the perforated plate (7). Grind the remaining wire mesh with a hand grinding tool, paying attention to not damaging the perforated plate (7). If some part of the wire mesh remains solidly attached to the welded spot, leave it there, since it will cause no damage or malfunction.
 - 4.5. Carefully inspect the perforated plate (7) for damages. If any hole in the screen is found obstructed, clean it with compressed air and/or any suitable tool. If the screen is broken in any part or out of shape, replace it with a new spare one, verifying that it is of the correct filtration degree and material.
Never reinstall a broken or distorted filtering element!
 - 4.6. Carefully clean the inside of the strainer body.
 - 4.7. Fit a new gasket (5).
 - 4.8. Install the new filtering element or the old cleaned one (7). Be sure to properly align the filtering element on his upper seat.
 - 4.9. Put in place the cover flange (3) making sure that the drain plug or valve (6) is in the lower position and tighten the nuts and bolts (4).
 - 4.10. Slowly give pressure to the line, checking for any leak.
 - 4.11. Write on the strainer body or tag the date of this maintenance operation.



conaco

a division of Inoxfucine S.p.A.

Via Polenghi, 5 – Loc. Belgiardino 26836 (LO) – Italy

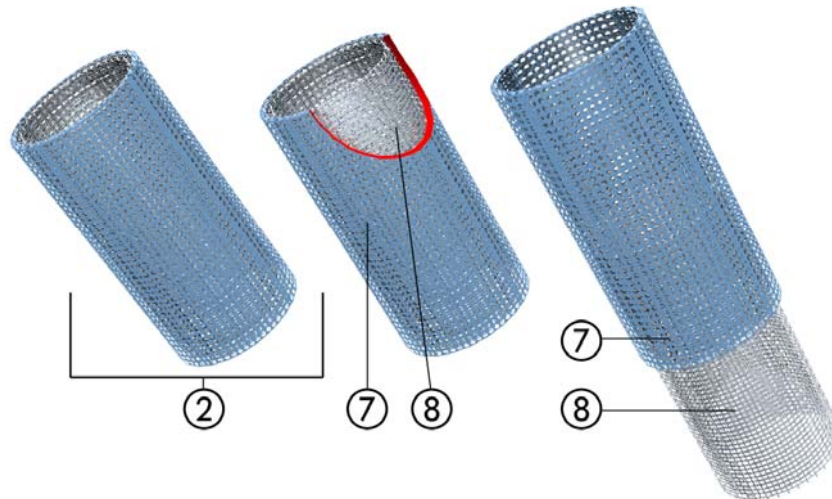
Tel +39-0371-68518 .

DOC. No I.02/707

Rev. 7

Date 12/04/2018

Page 3 of 3



3.3.a The two-piece element is made of two filtering cylinders (A) and (G) held together by a screwed hub (C-D) (see the figure below).

Slide out the element holding it by the handle (G). Midway from the extraction separate the two cylinders holding the handles (B) and twisting the handles (E) anticlockwise, thus unscrewing the hub (C-D). After the separation put aside the half element (F) and extract completely the other half (A).

Carefully inspect both parts for damages. If any hole in the screen is found obstructed, clean it with compressed air and/or any suitable tool. If the screen is broken in any part or out of shape, replace it with a new spare one, verifying that it is of the correct filtration degree and material. **Never reinstall a broken or distorted filtering element!**

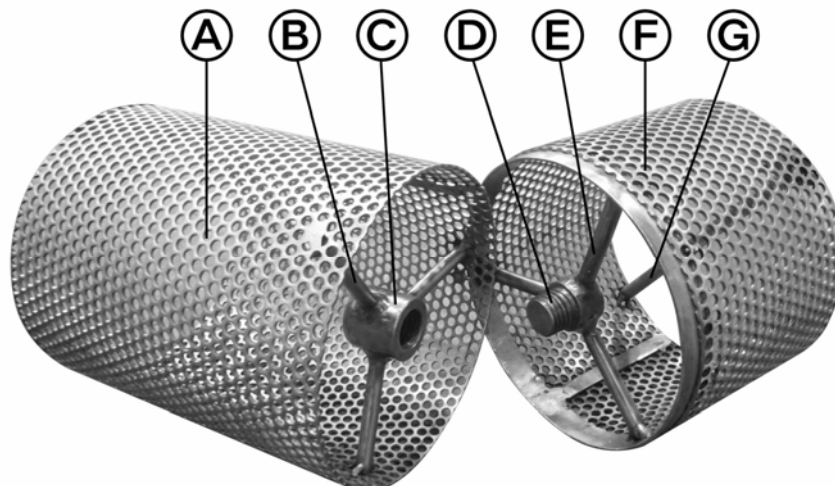


TABELLA VALORI PRECARICHI ASSIALI E COPPIE DI SERRAGGIO
AXIAL PRELOAD AND TIGHTENING TORQUE VALUES

Rev. 6-FV 13 July 2022

DIMENSIONE NOMINALE NOMINAL DIMENSION	DIAMETRO DIAMETER mm	PASSO PITCH mm	MATERIALE MATERIAL	ROTTURA (TENSILE) MPa	SNERVAMENTO (YIELD) MPa	COEFFICIENTE DI ATTRITO UNDERHEAD COEFFICIENT OF FRICTION k	COPPIA SERRAGGIO TIGHTENING TORQUE N-m	COPPIA SERRAGGIO TIGHTENING TORQUE kgf-cm	COPPIA SERRAGGIO TIGHTENING TORQUE kgf-m	COPPIA SERRAGGIO TIGHTENING TORQUE ft-lb	NOTE NOTES
M6	6,000	1,000	6.8	600,00	480,00	0,15	6,09	62,05	0,62	4,49	
M8	8,000	1,250	6.8	600,00	480,00	0,15	14,76	150,52	1,51	10,89	
M10	10,000	1,500	6.8	600,00	480,00	0,15	29,23	298,03	2,98	21,56	
M12	12,000	1,750	6.8	600,00	480,00	0,15	50,96	519,69	5,20	37,59	
M14	14,000	2,000	6.8	600,00	480,00	0,15	81,45	830,60	8,31	60,08	
M16	16,000	2,000	6.8	600,00	480,00	0,15	126,34	1288,28	12,88	93,18	
M18	18,000	2,500	6.8	600,00	480,00	0,15	174,61	1780,54	17,81	128,79	
M20	20,000	2,500	6.8	600,00	480,00	0,15	246,75	2516,18	25,16	182,00	
M22	22,000	2,500	6.8	600,00	480,00	0,15	336,41	3430,42	34,30	248,12	
M24	24,000	3,000	6.8	600,00	480,00	0,15	426,39	4347,95	43,48	314,49	
M30	30,000	3,500	6.8	600,00	480,00	0,15	847,61	8643,19	86,43	625,16	
M6	6,000	1,000	8.8	800,00	640,00	0,15	8,11	82,74	0,83	5,98	
M8	8,000	1,250	8.8	800,00	640,00	0,15	19,68	200,69	2,01	14,52	
M10	10,000	1,500	8.8	800,00	640,00	0,15	38,97	397,37	3,97	28,74	
M12	12,000	1,750	8.8	800,00	640,00	0,15	67,95	692,92	6,93	50,12	
M14	14,000	2,000	8.8	800,00	640,00	0,15	108,61	1107,47	11,07	80,10	
M16	16,000	2,000	8.8	800,00	640,00	0,15	168,45	1717,71	17,18	124,24	
M18	18,000	2,500	8.8	800,00	640,00	0,15	232,81	2374,05	23,74	171,72	
M20	20,000	2,500	8.8	800,00	640,00	0,15	329,00	3354,90	33,55	242,66	
M22	22,000	2,500	8.8	800,00	640,00	0,15	448,55	4573,89	45,74	330,83	
M24	24,000	3,000	8.8	800,00	640,00	0,15	568,52	5797,27	57,97	419,32	
M30	30,000	3,500	8.8	800,00	640,00	0,15	1130,14	11524,26	115,24	833,55	
M6	6,000	1,000	10.9	1000,00	900,00	0,15	11,41	116,35	1,16	8,42	
M8	8,000	1,250	10.9	1000,00	900,00	0,15	27,68	282,22	2,82	20,41	
M10	10,000	1,500	10.9	1000,00	900,00	0,15	54,80	558,81	5,59	40,42	
M12	12,000	1,750	10.9	1000,00	900,00	0,15	95,56	974,42	9,74	70,48	
M14	14,000	2,000	10.9	1000,00	900,00	0,15	152,73	1557,37	15,57	112,64	
M16	16,000	2,000	10.9	1000,00	900,00	0,15	236,88	2415,53	24,16	174,72	
M18	18,000	2,500	10.9	1000,00	900,00	0,15	327,40	3338,51	33,39	241,47	
M20	20,000	2,500	10.9	1000,00	900,00	0,15	462,66	4717,83	47,18	341,24	
M22	22,000	2,500	10.9	1000,00	900,00	0,15	630,77	6432,03	64,32	465,23	
M24	24,000	3,000	10.9	1000,00	900,00	0,15	799,48	8152,41	81,52	589,66	
M30	30,000	3,500	10.9	1000,00	900,00	0,15	1589,26	16205,99	162,06	1172,18	
M6	6,000	1,000	12.9	1200,00	1080,00	0,15	13,69	139,62	1,40	10,10	
M8	8,000	1,250	12.9	1200,00	1080,00	0,15	33,21	338,66	3,39	24,50	
M10	10,000	1,500	12.9	1200,00	1080,00	0,15	65,76	670,57	6,71	48,50	
M12	12,000	1,750	12.9	1200,00	1080,00	0,15	114,67	1169,31	11,69	84,58	
M14	14,000	2,000	12.9	1200,00	1080,00	0,15	183,27	1868,85	18,69	135,17	
M16	16,000	2,000	12.9	1200,00	1080,00	0,15	284,26	2898,64	28,99	209,66	
M18	18,000	2,500	12.9	1200,00	1080,00	0,15	392,88	4006,21	40,06	289,77	
M20	20,000	2,500	12.9	1200,00	1080,00	0,15	555,19	5661,40	56,61	409,49	
M22	22,000	2,500	12.9	1200,00	1080,00	0,15	756,92	7718,44	77,18	558,27	
M24	24,000	3,000	12.9	1200,00	1080,00	0,15	959,37	9782,90	97,83	707,60	
M30	30,000	3,500	12.9	1200,00	1080,00	0,15	1907,12	19447,18	194,47	1406,62	
1/4" - 20 UNC	6,350	1,270	A193 Gr. B7	860,00	725,00	0,15	9,92	101,20	1,01	7,32	(5)
5/16" - 18 UNC	7,938	1,411	A193 Gr. B7	860,00	725,00	0,15	20,44	208,43	2,08	15,08	(5)
3/8" - 16 UNC	9,525	1,588	A193 Gr. B7	860,00	725,00	0,15	36,25	369,64	3,70	26,74	(5)
7/16" - 14 UNC	11,113	1,814	A193 Gr. B7	860,00	725,00	0,15	58,02	591,66	5,92	42,79	(5)
1/2" - 13 UNC	12,700	1,954	A193 Gr. B7	860,00	725,00	0,15	88,51	902,52	9,03	65,28	(5)
9/16" - 12 UNC	14,288	2,117	A193 Gr. B7	860,00	725,00	0,15	127,67	1301,91	13,02	94,17	(5)
5/8" - 11 UNC	15,875	2,309	A193 Gr. B7	860,00	725,00	0,15	176,21	1796,80	17,97	129,96	(5)
3/4" - 10 UNC	19,050	2,540	A193 Gr. B7	860,00	725,00	0,15	312,92	3190,90	31,91	230,80	(5)
7/8" - 9 UNC	22,225	2,822	A193 Gr. B7	860,00	725,00	0,15	504,00	5139,34	51,39	371,73	(5)
1" - 8 UNC	25,400	3,175	A193 Gr. B7	860,00	725,00	0,15	755,64	7705,43	77,05	557,33	(5)
1_1/8" - 8 UN	28,575	3,175	A193 Gr. B7	860,00	725,00	0,15	1109,32	11311,91	113,12	818,19	(5)
1_1/4" - 8 UN	31,750	3,175	A193 Gr. B7	860,00	725,00	0,15	1558,87	15896,06	158,96	1149,76	(5)
1_3/8" - 8 UN	34,925	3,175	A193 Gr. B7	860,00	725,00	0,15	2115,78	21574,95	215,75	1560,52	(5)
1_1/2" - 8 UN	38,100	3,175	A193 Gr. B7	860,00	725,00	0,15	2791,53	28465,66	284,66	2058,92	(5)
1_5/8" - 8 UN	41,275	3,175	A193 Gr. B7	860,00	725,00	0,15	3597,60	36685,28	366,85	2653,45	(5)
1_3/4" - 8 UN	44,450	3,175	A193 Gr. B7	860,00	725,00	0,15	4545,47	46350,87	463,51	3352,56	(5)
1_7/8" - 8 UN	47,625	3,175	A193 Gr. B7	860,00	725,00	0,15	5646,62	57579,52	575,80	4164,73	(5)
2" - 8 UN	50,800	3,175	A193 Gr. B7	860,00	725,00	0,15	6912,54	70488,31	704,88	5098,42	(5)

DIMENSIONE NOMINALE NOMINAL DIMENSION	DIAMETRO DIAMETER mm	PASSO PITCH mm	MATERIALE MATERIAL	ROTTURA (TENSILE) MPa	SNERVAMENTO (YIELD) MPa	COEFFICIENTE DI ATTRITO UNDERHEAD COEFFICIENT OF FRICTION k	COPPIA SERRAGGIO TIGHTENING TORQUE N-m	COPPIA SERRAGGIO TIGHTENING TORQUE kgf-cm	COPPIA SERRAGGIO TIGHTENING TORQUE kgf-m	COPPIA SERRAGGIO TIGHTENING TORQUE ft-lb	NOTE NOTES
2_1/4" - 8 UN	57,150	3,175	A193 Gr. B7	860,00	725,00	0,15	9984,60	101814,62	1018,15	7364,25	(5)
2_1/2" - 8 UN	63,500	3,175	A193 Gr. B7	860,00	725,00	0,15	13853,50	141266,43	1412,66	10217,80	(5)
2_3/4" - 8 UN	69,850	3,175	A193 Gr. B7	795,00	655,00	0,15	16814,16	171456,76	1714,57	12401,47	(6)
3" - 8 UN	76,200	3,175	A193 Gr. B7	795,00	655,00	0,15	21998,27	224319,96	2243,20	16225,07	(6)
3_1/4" - 8 UN	82,550	3,175	A193 Gr. B7	795,00	655,00	0,15	28151,24	287062,73	2870,63	20763,25	(6)
3_1/2" - 8 UN	88,900	3,175	A193 Gr. B7	795,00	655,00	0,15	35356,04	360531,26	3605,31	26077,24	(6)
3_3/4" - 8 UN	95,250	3,175	A193 Gr. B7	795,00	655,00	0,15	43695,66	445571,76	4455,72	32228,22	(6)
4" - 8 UN	101,600	3,175	A193 Gr. B7	690,00	515,00	0,15	41870,75	426962,84	4269,63	30882,23	(7)
1/4" - 20 UNC	6,350	1,270	A193 Gr. B7M	690,00	550,00	0,15	7,53	76,77	0,77	5,55	(5)
5/16" - 18 UNC	7,938	1,411	A193 Gr. B7M	690,00	550,00	0,15	15,51	158,12	1,58	11,44	(5)
3/8" - 16 UNC	9,525	1,588	A193 Gr. B7M	690,00	550,00	0,15	27,50	280,42	2,80	20,28	(5)
7/16" - 14 UNC	11,113	1,814	A193 Gr. B7M	690,00	550,00	0,15	44,02	448,84	4,49	32,46	(5)
1/2" - 13 UNC	12,700	1,954	A193 Gr. B7M	690,00	550,00	0,15	67,14	684,67	6,85	49,52	(5)
9/16" - 12 UNC	14,288	2,117	A193 Gr. B7M	690,00	550,00	0,15	96,86	987,66	9,88	71,44	(5)
5/8" - 11 UNC	15,875	2,309	A193 Gr. B7M	690,00	550,00	0,15	133,67	1363,09	13,63	98,59	(5)
3/4" - 10 UNC	19,050	2,540	A193 Gr. B7M	690,00	550,00	0,15	237,39	2420,68	24,21	175,09	(5)
7/8" - 9 UNC	22,225	2,822	A193 Gr. B7M	690,00	550,00	0,15	382,34	3898,81	38,99	282,00	(5)
1" - 8 UNC	25,400	3,175	A193 Gr. B7M	690,00	550,00	0,15	573,25	5845,50	58,45	422,81	(5)
1_1/8" - 8 UN	28,575	3,175	A193 Gr. B7M	690,00	550,00	0,15	841,55	8581,45	85,81	620,70	(5)
1_1/4" - 8 UN	31,750	3,175	A193 Gr. B7M	690,00	550,00	0,15	1182,59	12059,08	120,59	872,23	(5)
1_3/8" - 8 UN	34,925	3,175	A193 Gr. B7M	690,00	550,00	0,15	1605,07	16367,20	163,67	1183,84	(5)
1_1/2" - 8 UN	38,100	3,175	A193 Gr. B7M	690,00	550,00	0,15	2117,71	21594,64	215,95	1561,94	(5)
1_5/8" - 8 UN	41,275	3,175	A193 Gr. B7M	690,00	550,00	0,15	2729,21	27830,21	278,30	2012,96	(5)
1_3/4" - 8 UN	44,450	3,175	A193 Gr. B7M	690,00	550,00	0,15	3448,29	35162,73	351,63	2543,32	(5)
1_7/8" - 8 UN	47,625	3,175	A193 Gr. B7M	690,00	550,00	0,15	4283,64	43681,02	436,81	3159,45	(5)
2" - 8 UN	50,800	3,175	A193 Gr. B7M	690,00	550,00	0,15	5244,00	53473,89	534,74	3867,77	(5)
2_1/4" - 8 UN	57,150	3,175	A193 Gr. B7M	690,00	550,00	0,15	7574,53	77238,68	772,39	5586,68	(5)
2_1/2" - 8 UN	63,500	3,175	A193 Gr. B7M	690,00	550,00	0,15	10509,56	107167,64	1071,68	7751,44	(5)
1/4" - 20 UNC	6,350	1,270	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	2,81	28,61	0,29	2,07	(1)
5/16" - 18 UNC	7,938	1,411	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	5,78	58,94	0,59	4,26	(1)
3/8" - 16 UNC	9,525	1,588	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	10,25	104,52	1,05	7,56	(1)
7/16" - 14 UNC	11,113	1,814	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	16,41	167,30	1,67	12,10	(1)
1/2" - 13 UNC	12,700	1,954	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	25,03	255,19	2,55	18,46	(1)
9/16" - 12 UNC	14,288	2,117	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	36,10	368,13	3,68	26,63	(1)
5/8" - 11 UNC	15,875	2,309	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	49,82	508,06	5,08	36,75	(1)
3/4" - 10 UNC	19,050	2,540	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	88,48	902,25	9,02	65,26	(1)
7/8" - 9 UNC	22,225	2,822	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	142,51	1453,19	14,53	105,11	(1)
1" - 8 UNC	25,400	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	213,67	2178,78	21,79	157,59	(1)
1_1/8" - 8 UN	28,575	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	313,67	3198,54	31,99	231,35	(1)
1_1/4" - 8 UN	31,750	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	440,78	4494,75	44,95	325,11	(1)
1_3/8" - 8 UN	34,925	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	598,25	6100,50	61,01	441,25	(1)
1_1/2" - 8 UN	38,100	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	789,33	8048,91	80,49	582,18	(1)
1_5/8" - 8 UN	41,275	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	1017,25	10373,08	103,73	750,28	(1)
1_3/4" - 8 UN	44,450	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	1285,27	13106,11	131,06	947,97	(1)
1_7/8" - 8 UN	47,625	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	1596,63	16281,11	162,81	1177,61	(1)
2" - 8 UN	50,800	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	1954,58	19931,18	199,31	1441,62	(1)
2_1/4" - 8 UN	57,150	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	2823,23	28788,96	287,89	2082,31	(1)
2_1/2" - 8 UN	63,500	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	3917,20	39944,30	399,44	2889,17	(1)
2_3/4" - 8 UN	69,850	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	5262,45	53662,04	536,62	3881,38	(1)
3" - 8 UN	76,200	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	6884,96	70207,01	702,07	5078,07	(1)
3_1/4" - 8 UN	82,550	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	8810,69	89844,06	898,44	6498,42	(1)
3_1/2" - 8 UN	88,900	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	11065,63	112838,03	1128,38	8161,58	(1)
3_3/4" - 8 UN	95,250	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	13675,74	139453,76	1394,54	10086,69	(1)
4" - 8 UN	101,600	3,175	A193 Gr. B8 Cl. 1	515,00	205,00	0,15	16667,00	169956,08	1699,56	12292,93	(1)
1/4" - 20 UNC	6,350	1,270	A193 Gr. B8 Cl. 2	860,00	690,00	0,15	9,44	96,31	0,96	6,97	(1)
5/16" - 18 UNC	7,938	1,411	A193 Gr. B8 Cl. 2	860,00	690,00	0,15	19,45	198,37	1,98	14,35	(1)
3/8" - 16 UNC	9,525	1,588	A193 Gr. B8 Cl. 2	860,00	690,00	0,15	34,50	351,80	3,52	25,45	(1)
7/16" - 14 UNC	11,113	1,814	A193 Gr. B8 Cl. 2	860,00	690,00	0,15	55,22	563,10	5,63	40,73	(1)
1/2" - 13 UNC	12,700	1,954	A193 Gr. B8 Cl. 2	860,00	690,00	0,15	84,23	858,95	8,59	62,13	(1)
9/16" - 12 UNC	14,288	2,117	A193 Gr. B8 Cl. 2	860,00	690,00	0,15	121,51	1239,06	12,39	89,62	(1)
5/8" - 11 UNC	15,875	2,309	A193 Gr. B8 Cl. 2	860,00	690,00	0,15	167,70	1710,06	17,10	123,69	(1)
3/4" - 10 UNC	19,050	2,540	A193 Gr. B8 Cl. 2	795,00	550,00	0,15	237,39	2420,68	24,21	175,09	(2)
7/8" - 9 UNC	22,225	2,822	A193 Gr. B8 Cl. 2	795,00	550,00	0,15	382,34	3898,81	38,99	282,00	(2)

TABELLA VALORI PRECARICHI ASSIALI E COPPIE DI SERRAGGIO
AXIAL PRELOAD AND TIGHTENING TORQUE VALUES

Rev. 6-FV 13 July 2022

DIMENSIONE NOMINALE NOMINAL DIMENSION	DIAMETRO DIAMETER mm	PASSO PITCH mm	MATERIALE MATERIAL	ROTTURA (TENSILE) MPa	SNERVAMENTO (YIELD) MPa	COEFFICIENTE DI ATTRITO UNDERHEAD COEFFICIENT OF FRICTION k	<i>COPPIA SERRAGGIO TIGHTENING TORQUE N-m</i>	<i>COPPIA SERRAGGIO TIGHTENING TORQUE kgf-cm</i>	<i>COPPIA SERRAGGIO TIGHTENING TORQUE kgf-m</i>	<i>COPPIA SERRAGGIO TIGHTENING TORQUE ft-lb</i>	NOTE NOTES
1" - 8 UNC	25,400	3,175	A193 Gr. B8 Cl. 2	725,00	450,00	0,15	469,02	4782,68	47,83	345,93	(3)
1_1/8" - 8 UN	28,575	3,175	A193 Gr. B8 Cl. 2	725,00	450,00	0,15	688,54	7021,19	70,21	507,84	(3)
1_1/4" - 8 UN	31,750	3,175	A193 Gr. B8 Cl. 2	725,00	450,00	0,15	967,58	9866,52	98,67	713,65	(3)
1_3/8" - 8 UN	34,925	3,175	A193 Gr. B8 Cl. 2	690,00	345,00	0,15	1006,82	10266,70	102,67	742,59	(4)
1/4" - 20 UNC	6,350	1,270	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	2,81	28,61	0,29	2,07	
5/16" - 18 UNC	7,938	1,411	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	5,78	58,94	0,59	4,26	
3/8" - 16 UNC	9,525	1,588	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	10,25	104,52	1,05	7,56	
7/16" - 14 UNC	11,113	1,814	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	16,41	167,30	1,67	12,10	
1/2" - 13 UNC	12,700	1,954	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	25,03	255,19	2,55	18,46	
9/16" - 12 UNC	14,288	2,117	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	36,10	368,13	3,68	26,63	
5/8" - 11 UNC	15,875	2,309	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	49,82	508,06	5,08	36,75	
3/4" - 10 UNC	19,050	2,540	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	88,48	902,25	9,02	65,26	
7/8" - 9 UNC	22,225	2,822	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	142,51	1453,19	14,53	105,11	
1" - 8 UNC	25,400	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	213,67	2178,78	21,79	157,59	
1_1/8" - 8 UN	28,575	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	313,67	3198,54	31,99	231,35	
1_1/4" - 8 UN	31,750	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	440,78	4494,75	44,95	325,11	
1_3/8" - 8 UN	34,925	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	598,25	6100,50	61,01	441,25	
1_1/2" - 8 UN	38,100	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	789,33	8048,91	80,49	582,18	
1_5/8" - 8 UN	41,275	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	1017,25	10373,08	103,73	750,28	
1_3/4" - 8 UN	44,450	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	1285,27	13106,11	131,06	947,97	
1_7/8" - 8 UN	47,625	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	1596,63	16281,11	162,81	1177,61	
2" - 8 UN	50,800	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	1954,58	19931,18	199,31	1441,62	
2_1/4" - 8 UN	57,150	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	2823,23	28788,96	287,89	2082,31	
2_1/2" - 8 UN	63,500	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	3917,20	39944,30	399,44	2889,17	
2_3/4" - 8 UN	69,850	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	5262,45	53662,04	536,62	3881,38	
3" - 8 UN	76,200	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	6884,96	70207,01	702,07	5078,07	
3_1/4" - 8 UN	82,550	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	8810,69	89844,06	898,44	6498,42	
3_1/2" - 8 UN	88,900	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	11065,63	112838,03	1128,38	8161,58	
3_3/4" - 8 UN	95,250	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	13675,74	139453,76	1394,54	10086,69	
4" - 8 UN	101,600	3,175	A193 Gr. B8M Cl. 1	515,00	205,00	0,15	16667,00	169956,08	1699,56	12292,93	
1/4" - 20 UNC	6,350	1,270	A193 Gr. B8M Cl. 2	760,00	655,00	0,15	8,97	91,42	0,91	6,61	(1)
5/16" - 18 UNC	7,938	1,411	A193 Gr. B8M Cl. 2	760,00	655,00	0,15	18,47	188,31	1,88	13,62	(1)
3/8" - 16 UNC	9,525	1,588	A193 Gr. B8M Cl. 2	760,00	655,00	0,15	32,75	333,95	3,34	24,15	(1)
7/16" - 14 UNC	11,113	1,814	A193 Gr. B8M Cl. 2	760,00	655,00	0,15	52,42	534,53	5,35	38,66	(1)
1/2" - 13 UNC	12,700	1,954	A193 Gr. B8M Cl. 2	760,00	655,00	0,15	79,96	815,38	8,15	58,98	(1)
9/16" - 12 UNC	14,288	2,117	A193 Gr. B8M Cl. 2	760,00	655,00	0,15	115,35	1176,21	11,76	85,08	(1)
5/8" - 11 UNC	15,875	2,309	A193 Gr. B8M Cl. 2	760,00	655,00	0,15	159,19	1623,31	16,23	117,41	(1)
3/4" - 10 UNC	19,050	2,540	A193 Gr. B8M Cl. 2	690,00	550,00	0,15	237,39	2420,68	24,21	175,09	(2)
7/8" - 9 UNC	22,225	2,822	A193 Gr. B8M Cl. 2	690,00	550,00	0,15	382,34	3898,81	38,99	282,00	(2)
1" - 8 UNC	25,400	3,175	A193 Gr. B8M Cl. 2	655,00	450,00	0,15	469,02	4782,68	47,83	345,93	(3)
1_1/8" - 8 UN	28,575	3,175	A193 Gr. B8M Cl. 2	655,00	450,00	0,15	688,54	7021,19	70,21	507,84	(3)
1_1/4" - 8 UN	31,750	3,175	A193 Gr. B8M Cl. 2	655,00	450,00	0,15	967,58	9866,52	98,67	713,65	(3)
1_3/8" - 8 UN	34,925	3,175	A193 Gr. B8M Cl. 2	620,00	345,00	0,15	1006,82	10266,70	102,67	742,59	(4)
1/4" - 20 UNC	6,350	1,270	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	7,05	71,88	0,72	5,20	
5/16" - 18 UNC	7,938	1,411	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	14,52	148,06	1,48	10,71	
3/8" - 16 UNC	9,525	1,588	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	25,75	262,57	2,63	18,99	
7/16" - 14 UNC	11,113	1,814	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	41,22	420,28	4,20	30,40	
1/2" - 13 UNC	12,700	1,954	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	62,87	641,10	6,41	46,37	
9/16" - 12 UNC	14,288	2,117	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	90,69	924,81	9,25	66,89	
5/8" - 11 UNC	15,875	2,309	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	125,17	1276,35	12,76	92,32	
3/4" - 10 UNC	19,050	2,540	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	222,28	2266,64	22,67	163,95	
7/8" - 9 UNC	22,225	2,822	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	358,01	3650,70	36,51	264,06	
1" - 8 UNC	25,400	3,175	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	536,77	5473,51	54,74	395,90	
1_1/8" - 8 UN	28,575	3,175	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	788,00	8035,36	80,35	581,20	
1_1/4" - 8 UN	31,750	3,175	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	1107,34	11291,68	112,92	816,73	
1_3/8" - 8 UN	34,925	3,175	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	1502,93	15325,65	153,26	1108,50	
1_1/2" - 8 UN	38,100	3,175	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	1982,95	20220,44	202,20	1462,54	
1_5/8" - 8 UN	41,275	3,175	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	2555,53	26059,20	260,59	1884,86	
1_3/4" - 8 UN	44,450	3,175	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	3228,85	32925,10	329,25	2381,47	
1_7/8" - 8 UN	47,625	3,175	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	4011,05	40901,32	409,01	2958,39	
2" - 8 UN	50,800	3,175	A193 Gr. B8M2 Cl. 2B	655,00	515,00	0,15	4910,29	50071,01	500,71	3621,64	
2_1/4" - 8 UN	57,150	3,175	A193 Gr. B8M2 Cl. 2B	620,00	450,00	0,15	6197,34	63195,28	631,95	4570,92	
2_1/2" - 8 UN	63,500	3,175	A193 Gr. B8M2 Cl. 2B	620,00	450,00	0,15	8598,73	87682,61	876,83	6342,09	

DIMENSIONE NOMINALE NOMINAL DIMENSION	DIAMETRO DIAMETER mm	PASSO PITCH mm	MATERIALE MATERIAL	ROTTURA (TENSILE) MPa	SNERVAMENTO (YIELD) MPa	COEFFICIENTE DI ATTRITO UNDERHEAD COEFFICIENT OF FRICTION k	<i>COPPIA SERRAGGIO TIGHTENING TORQUE N-m</i>	<i>COPPIA SERRAGGIO TIGHTENING TORQUE kgf-cm</i>	<i>COPPIA SERRAGGIO TIGHTENING TORQUE kgf-m</i>	<i>COPPIA SERRAGGIO TIGHTENING TORQUE ft-lb</i>	NOTE NOTES
2_3/4" - 8 UN	69,850	3,175	A193 Gr. B8M2 Cl. 2B	550,00	380,00	0,15	9754,78	99471,09	994,71	7194,75	
3" - 8 UN	76,200	3,175	A193 Gr. B8M2 Cl. 2B	550,00	380,00	0,15	12762,36	130139,82	1301,40	9413,02	
1/4" - 20 UNC	6,350	1,270	A320 Gr. L7	860,00	725,00	0,15	9,92	101,20	1,01	7,32	(5)
5/16" - 18 UNC	7,938	1,411	A320 Gr. L7	860,00	725,00	0,15	20,44	208,43	2,08	15,08	(5)
3/8" - 16 UNC	9,525	1,588	A320 Gr. L7	860,00	725,00	0,15	36,25	369,64	3,70	26,74	(5)
7/16" - 14 UNC	11,113	1,814	A320 Gr. L7	860,00	725,00	0,15	58,02	591,66	5,92	42,79	(5)
1/2" - 13 UNC	12,700	1,954	A320 Gr. L7	860,00	725,00	0,15	88,51	902,52	9,03	65,28	(5)
9/16" - 12 UNC	14,288	2,117	A320 Gr. L7	860,00	725,00	0,15	127,67	1301,91	13,02	94,17	(5)
5/8" - 11 UNC	15,875	2,309	A320 Gr. L7	860,00	725,00	0,15	176,21	1796,80	17,97	129,96	(5)
3/4" - 10 UNC	19,050	2,540	A320 Gr. L7	860,00	725,00	0,15	312,92	3190,90	31,91	230,80	(5)
7/8" - 9 UNC	22,225	2,822	A320 Gr. L7	860,00	725,00	0,15	504,00	5139,34	51,39	371,73	(5)
1" - 8 UNC	25,400	3,175	A320 Gr. L7	860,00	725,00	0,15	755,64	7705,43	77,05	557,33	(5)
1_1/8" - 8 UN	28,575	3,175	A320 Gr. L7	860,00	725,00	0,15	1109,32	11311,91	113,12	818,19	(5)
1_1/4" - 8 UN	31,750	3,175	A320 Gr. L7	860,00	725,00	0,15	1558,87	15896,06	158,96	1149,76	(5)
1_3/8" - 8 UN	34,925	3,175	A320 Gr. L7	860,00	725,00	0,15	2115,78	21574,95	215,75	1560,52	(5)
1_1/2" - 8 UN	38,100	3,175	A320 Gr. L7	860,00	725,00	0,15	2791,53	28465,66	284,66	2058,92	(5)
1_5/8" - 8 UN	41,275	3,175	A320 Gr. L7	860,00	725,00	0,15	3597,60	36685,28	366,85	2653,45	(5)
1_3/4" - 8 UN	44,450	3,175	A320 Gr. L7	860,00	725,00	0,15	4545,47	46350,87	463,51	3352,56	(5)
1_7/8" - 8 UN	47,625	3,175	A320 Gr. L7	860,00	725,00	0,15	5646,62	57579,52	575,80	4164,73	(5)
2" - 8 UN	50,800	3,175	A320 Gr. L7	860,00	725,00	0,15	6912,54	70488,31	704,88	5098,42	(5)
2_1/4" - 8 UN	57,150	3,175	A320 Gr. L7	860,00	725,00	0,15	9984,60	101814,62	1018,15	7364,25	(5)
2_1/2" - 8 UN	63,500	3,175	A320 Gr. L7	860,00	725,00	0,15	13853,50	141266,43	1412,66	10217,80	(5)
1/4" - 20 UNC	6,350	1,270	A320 Gr. L7M	690,00	550,00	0,15	7,53	76,77	0,77	5,55	
5/16" - 18 UNC	7,938	1,411	A320 Gr. L7M	690,00	550,00	0,15	15,51	158,12	1,58	11,44	
3/8" - 16 UNC	9,525	1,588	A320 Gr. L7M	690,00	550,00	0,15	27,50	280,42	2,80	20,28	
7/16" - 14 UNC	11,113	1,814	A320 Gr. L7M	690,00	550,00	0,15	44,02	448,84	4,49	32,46	
1/2" - 13 UNC	12,700	1,954	A320 Gr. L7M	690,00	550,00	0,15	67,14	684,67	6,85	49,52	
9/16" - 12 UNC	14,288	2,117	A320 Gr. L7M	690,00	550,00	0,15	96,86	987,66	9,88	71,44	
5/8" - 11 UNC	15,875	2,309	A320 Gr. L7M	690,00	550,00	0,15	133,67	1363,09	13,63	98,59	
3/4" - 10 UNC	19,050	2,540	A320 Gr. L7M	690,00	550,00	0,15	237,39	2420,68	24,21	175,09	
7/8" - 9 UNC	22,225	2,822	A320 Gr. L7M	690,00	550,00	0,15	382,34	3898,81	38,99	282,00	
1" - 8 UNC	25,400	3,175	A320 Gr. L7M	690,00	550,00	0,15	573,25	5845,50	58,45	422,81	
1_1/8" - 8 UN	28,575	3,175	A320 Gr. L7M	690,00	550,00	0,15	841,55	8581,45	85,81	620,70	
1_1/4" - 8 UN	31,750	3,175	A320 Gr. L7M	690,00	550,00	0,15	1182,59	12059,08	120,59	872,23	
1_3/8" - 8 UN	34,925	3,175	A320 Gr. L7M	690,00	550,00	0,15	1605,07	16367,20	163,67	1183,84	
1_1/2" - 8 UN	38,100	3,175	A320 Gr. L7M	690,00	550,00	0,15	2117,71	21594,64	215,95	1561,94	
1_5/8" - 8 UN	41,275	3,175	A320 Gr. L7M	690,00	550,00	0,15	2729,21	27830,21	278,30	2012,96	
1_3/4" - 8 UN	44,450	3,175	A320 Gr. L7M	690,00	550,00	0,15	3448,29	35162,73	351,63	2543,32	
1_7/8" - 8 UN	47,625	3,175	A320 Gr. L7M	690,00	550,00	0,15	4283,64	43681,02	436,81	3159,45	
2" - 8 UN	50,800	3,175	A320 Gr. L7M	690,00	550,00	0,15	5244,00	53473,89	534,74	3867,77	
2_1/4" - 8 UN	57,150	3,175	A320 Gr. L7M	690,00	550,00	0,15	7574,53	77238,68	772,39	5586,68	
2_1/2" - 8 UN	63,500	3,175	A320 Gr. L7M	690,00	550,00	0,15	10509,56	107167,64	1071,68	7751,44	
2_3/4" - 8 UN	69,850	3,175	A320 Gr. L7M	690,00	550,00	0,15	14118,76	143971,32	1439,71	10413,45	
3" - 8 UN	76,200	3,175	A320 Gr. L7M	690,00	550,00	0,15	18471,83	188360,27	1883,60	13624,10	
1/4" - 20 UNC	6,350	1,270	A320 Gr. L43	860,00	725,00	0,15	9,92	101,20	1,01	7,32	
5/16" - 18 UNC	7,938	1,411	A320 Gr. L43	860,00	725,00	0,15	20,44	208,43	2,08	15,08	
3/8" - 16 UNC	9,525	1,588	A320 Gr. L43	860,00	725,00	0,15	36,25	369,64	3,70	26,74	
7/16" - 14 UNC	11,113	1,814	A320 Gr. L43	860,00	725,00	0,15	58,02	591,66	5,92	42,79	
1/2" - 13 UNC	12,700	1,954	A320 Gr. L43	860,00	725,00	0,15	88,51	902,52	9,03	65,28	
9/16" - 12 UNC	14,288	2,117	A320 Gr. L43	860,00	725,00	0,15	127,67	1301,91	13,02	94,17	
5/8" - 11 UNC	15,875	2,309	A320 Gr. L43	860,00	725,00	0,15	176,21	1796,80	17,97	129,96	
3/4" - 10 UNC	19,050	2,540	A320 Gr. L43	860,00	725,00	0,15	312,92	3190,90	31,91	230,80	
7/8" - 9 UNC	22,225	2,822	A320 Gr. L43	860,00	725,00	0,15	504,00	5139,34	51,39	371,73	
1" - 8 UNC	25,400	3,175	A320 Gr. L43	860,00	725,00	0,15	755,64	7705,43	77,05	557,33	
1_1/8" - 8 UN	28,575	3,175	A320 Gr. L43	860,00	725,00	0,15	1109,32	11311,91	113,12	818,19	
1_1/4" - 8 UN	31,750	3,175	A320 Gr. L43	860,00	725,00	0,15	1558,87	15896,06	158,96	1149,76	
1_3/8" - 8 UN	34,925	3,175	A320 Gr. L43	860,00	725,00	0,15	2115,78	21574,95	215,75	1560,52	
1_1/2" - 8 UN	38,100	3,175	A320 Gr. L43	860,00	725,00	0,15	2791,53	28465,66	284,66	2058,92	
1_5/8" - 8 UN	41,275	3,175	A320 Gr. L43	860,00	725,00	0,15	3597,60	36685,28	366,85	2653,45	
1_3/4" - 8 UN	44,450	3,175	A320 Gr. L43	860,00	725,00	0,15	4545,47	46350,87	463,51	3352,56	
1_7/8" - 8 UN	47,625	3,175	A320 Gr. L43	860,00	725,00	0,15	5646,62	57579,52	575,80	4164,73	
2" - 8 UN	50,800	3,175	A320 Gr. L43	860,00	725,00	0,15	6912,54	70488,31	704,88	5098,42	
2_1/4" - 8 UN	57,150	3,175	A320 Gr. L43	860,00	725,00	0,15	9984,60	101814,62	1018,15	7364,25	

DIMENSIONE NOMINALE NOMINAL DIMENSION	DIAMETRO DIAMETER mm	PASSO PITCH mm	MATERIALE MATERIAL	ROTTURA (TENSILE) MPa	SNERVAMENTO (YIELD) MPa	COEFFICIENTE DI ATTRITO UNDERHEAD COEFFICIENT OF FRICTION k	COPPIA SERRAGGIO TIGHTENING TORQUE N-m	COPPIA SERRAGGIO TIGHTENING TORQUE kgf-cm	COPPIA SERRAGGIO TIGHTENING TORQUE kgf-m	COPPIA SERRAGGIO TIGHTENING TORQUE ft-lb	NOTE NOTES
2_1/2" - 8 UN	63,500	3,175	A320 Gr. L43	860,00	725,00	0,15	13853,50	141266,43	1412,66	10217,80	
2_3/4" - 8 UN	69,850	3,175	A320 Gr. L43	860,00	725,00	0,15	18611,10	189780,38	1897,80	13726,82	
3" - 8 UN	76,200	3,175	A320 Gr. L43	860,00	725,00	0,15	24349,23	248293,09	2482,93	17959,05	
1/4" - 20 UNC	6,350	1,270	B446 - N06625 Cl. 1	825,00	415,00	0,15	5,68	57,93	0,58	4,19	(8)(9)
5/16" - 18 UNC	7,938	1,411	B446 - N06625 Cl. 1	825,00	415,00	0,15	11,70	119,31	1,19	8,63	(8)(9)
3/8" - 16 UNC	9,525	1,588	B446 - N06625 Cl. 1	825,00	415,00	0,15	20,75	211,59	2,12	15,30	(8)(9)
7/16" - 14 UNC	11,113	1,814	B446 - N06625 Cl. 1	825,00	415,00	0,15	33,21	338,67	3,39	24,50	(8)(9)
1/2" - 13 UNC	12,700	1,954	B446 - N06625 Cl. 1	825,00	415,00	0,15	50,66	516,61	5,17	37,37	(8)(9)
9/16" - 12 UNC	14,288	2,117	B446 - N06625 Cl. 1	825,00	415,00	0,15	73,08	745,23	7,45	53,90	(8)(9)
5/8" - 11 UNC	15,875	2,309	B446 - N06625 Cl. 1	825,00	415,00	0,15	100,86	1028,51	10,29	74,39	(8)(9)
3/4" - 10 UNC	19,050	2,540	B446 - N06625 Cl. 1	825,00	415,00	0,15	179,12	1826,51	18,27	132,11	(8)(9)
7/8" - 9 UNC	22,225	2,822	B446 - N06625 Cl. 1	825,00	415,00	0,15	288,49	2941,83	29,42	212,78	(8)(9)
1" - 8 UNC	25,400	3,175	B446 - N06625 Cl. 1	825,00	415,00	0,15	432,54	4410,69	44,11	319,03	(8)(9)
1_1/8" - 8 UN	28,575	3,175	B446 - N06625 Cl. 1	825,00	415,00	0,15	634,99	6475,09	64,75	468,34	(8)(9)
1_1/4" - 8 UN	31,750	3,175	B446 - N06625 Cl. 1	825,00	415,00	0,15	892,32	9099,12	90,99	658,14	(8)(9)
1_3/8" - 8 UN	34,925	3,175	B446 - N06625 Cl. 1	825,00	415,00	0,15	1211,10	12349,80	123,50	893,26	(8)(9)
1_1/2" - 8 UN	38,100	3,175	B446 - N06625 Cl. 1	825,00	415,00	0,15	1597,91	16294,14	162,94	1178,56	(8)(9)
1_5/8" - 8 UN	41,275	3,175	B446 - N06625 Cl. 1	825,00	415,00	0,15	2059,31	20999,16	209,99	1518,87	(8)
1_3/4" - 8 UN	44,450	3,175	B446 - N06625 Cl. 1	825,00	415,00	0,15	2601,89	26531,88	265,32	1919,05	(8)
1_7/8" - 8 UN	47,625	3,175	B446 - N06625 Cl. 1	825,00	415,00	0,15	3232,20	32959,31	329,59	2383,95	(8)
2" - 8 UN	50,800	3,175	B446 - N06625 Cl. 1	825,00	415,00	0,15	3956,83	40348,48	403,48	2918,41	(8)
2_1/4" - 8 UN	57,150	3,175	B446 - N06625 Cl. 1	825,00	415,00	0,15	5715,32	58280,09	582,80	4215,40	(8)
2_1/2" - 8 UN	63,500	3,175	B446 - N06625 Cl. 1	825,00	415,00	0,15	7929,94	80862,86	808,63	5848,81	(8)
2_3/4" - 8 UN	69,850	3,175	B446 - N06625 Cl. 1	825,00	415,00	0,15	10653,25	108632,91	1086,33	7857,42	(8)
3" - 8 UN	76,200	3,175	B446 - N06625 Cl. 1	825,00	415,00	0,15	13937,84	142126,39	1421,26	10280,01	(8)
1/4" - 20 UNC	6,350	1,270	B150 - C63000 HR50	690,00	345,00	0,15	4,72	48,16	0,48	3,48	(10)(11)
5/16" - 18 UNC	7,938	1,411	B150 - C63000 HR50	690,00	345,00	0,15	9,73	99,19	0,99	7,17	(10)(11)
3/8" - 16 UNC	9,525	1,588	B150 - C63000 HR50	690,00	345,00	0,15	17,25	175,90	1,76	12,72	(10)(11)
7/16" - 14 UNC	11,113	1,814	B150 - C63000 HR50	690,00	345,00	0,15	27,61	281,55	2,82	20,36	(10)(11)
1/2" - 13 UNC	12,700	1,954	B150 - C63000 HR50	690,00	345,00	0,15	42,12	429,47	4,29	31,06	(10)(11)
9/16" - 12 UNC	14,288	2,117	B150 - C63000 HR50	690,00	345,00	0,15	60,76	619,53	6,20	44,81	(10)(11)

NOTE - NOTES :

- (1) FINO A 19 compreso - TILL 19 included
 - (2) > 19 FINO A 25 compreso - MORE THAN 19 TILL 25 included
 - (3) > 25 FINO A 32 compreso - MORE THAN 25 TILL 32 included
 - (4) > 32 FINO A 38 compreso - MORE THAN 32 TILL 38 included
 - (5) FINO A 64 compreso - TILL 64 included
 - (6) > 64 FINO A 100 compreso - MORE THAN 64 TILL 100 included
 - (7) > 100 FINO A 175 compreso - MORE THAN 100 TILL 175 included
 - (8) Classe 1 : STATO RICOTTO - Class 1 : ANNEALED CONDITION
 - (9) UGUALE A ASTM F-468 N06625 Fino a diametro nominale 1,5" (compreso) - Equal to ASTM F-468 N06625 till to size dia. 1,5" (included).
 - (10) Definizione trattamento - Temper condition HR50 : TRAFILATO E DISTENSIONE ALLA TRAZIONE - DRAWN AND STRESS RELIEVED.
 - (11) MASSIMA DIMENSIONE APPLICABILE PER TONDI O BARRE ESAGONALI FINO A 1" (25 mm) - MAXIMUM VALUE FOR BAR AND ROD SIZE 1"(25 mm).
- FILETTATURA METRICA IN ACCORDO ISO - METRIC THREADS ACCORDING TO ISO
- FILETTATURA IN POLLICI IN ACCORDO ASME B1.1 - INCHES THREADS ACCORDING ASME B1.1
- COEFFICIENTE ATTRITO TRA LE SUPERFICI (k) VALIDO PER SUPERFICI OLiate - COEFFICIENT OF FRICTION (k) VALID FOR LUBRICATED SURFACES.
- PER BULLONERIA SU SUPERFICI A SECCO AUMENTARE IL VALORE DELLA COPPIA DI SERRAGGIO DEL 20%
- BOLTINGS ON DRY SURFACES INCREASE TIGHTENING TORQUE VALUE OF 20%.
- PER BULLONERIA ZINCATA RIDURRE IL VALORE DELLA COPPIA DI SERRAGGIO DEL 10%
- FOR GALVANIZING BOLTINGS REDUCE TIGHTENING TORQUE VALUE OF 10%.
- PER BULLONERIA CADMIATA RIDURRE IL VALORE DELLA COPPIA DI SERRAGGIO DEL 20%
- FOR CADMIUM PLATED BOLTINGS REDUCE TIGHTENING TORQUE VALUE OF 20%.
- PER BULLONERIA RIVESTITA IN TEFLON RIDURRE IL VALORE DELLA COPPIA DI SERRAGGIO DEL 35%
- FOR PTFE COATED BOLTINGS REDUCE TIGHTENING TORQUE VALUE OF 35%.
- CONVERSIONE - CONVERSION : MPa = N/mm²