MAXIMUM

BOLTING UP TENSION AND TORQUE VALUES

			BOLT TENSION	TENSION	BOLT TORQUE	MAXIMUM BOLT TORQUE
CLAMP SIZE	PIPE SIZE	BOLT SIZE	RESIDUAL (kN)	RESIDUAL (kN)	u=0,10 (Nm)	u=0,10 (Nm)
1	1"	1/2"	(kN) 8.3	12.4	20	29
1.5	1.5"	5/8"	22	33	59	87
2	2"	3/4"	24	36	57	83
В	2"	7/8"	47	69	163	241
3	3"	3/4"	34	49	79	116
C	3"	7/8"	47	69	163	241
4	4"	7/8"	47	69	163	241
D D	4"	1"	63	92	225	327
5	5"	1"	63	92	225	327
E	6"	1"	63	92	225	327
6	6"	1-1/8"	81	119	351	517
F	6"	1-1/8"	81	117	351	517
XF	6"	1-1/4"	103	152	486	716
ZX	6"	1-1/4"	103	152	486	716
G	6"	1-3/8"	129	189	652	961
XG	6"	1-3/8"	129	189	652	961
8	8"	1-3/6	103	152	486	716
Х8	8"	1-3/8"	129	189	652	961
12M	12"	1-3/4"	220	324	1376	2013
X12M	12"	2"	295	435	2054	3024
14	14"	1-5/8"	187	275	1089	1604
X14	14"	1-5/8"	187	275	1089	1604
R	14"	1-7/8"	248	367	1558	2279
A-P	14"	2"	295	435	2054	3024
5P	14"	2-1/2"	478	703	4048	5961
16	16"	1-3/4"	220	324	1376	2013
X16	16"	1-3/4"	220	324	1376	2013
18	18"	1-7/8"	248	367	1558	2279
X18	18"	1-7/8"	248	367	1558	2279
U	18"	2-1/2"	478	703	4048	5961
20	20"	2"	295	435	2054	3024
X20	20"	2"	295	435	2054	3024
V	20"	2-1/4"	398	583	2690	4328
3V	20"	2-1/4"	398	583	2690	4328
5V	20"	2-1/2"	478	703	4048	5961
W	22"	2-1/4"	398	583	2690	4328
3W	22"	2-1/2"	478	703	4048	5961
24	24"	2-1/4"	398	583	2690	4328
X24	24"	2-1/4"	398	583	2690	4328
Υ	24"	2-3/4"	505	802	4515	7182
3Y	24"	3-1/4"	833	1227	8963	12006
28	28"	3-1/4"	833	1227	8963	12006
30	30"	3-1/4"	833	1227	8963	12006
32	32"	3-1/4"	833	1227	8963	12006
34	34"	3-1/4"	833	1227	8963	12006
36	36"	3-1/4"	833	1227	8963	12006

RECOMMENDED MAXIMUM BOLT RECOMMENDED

Note

- Bolt material: ASTM A193 B7
- In case of friction coefficient different from 0,1 or different bolt material please contact our technical department

BOLTING UP TENSION AND TORQUE VALUES

CLAMP SIZE	PIPE SIZE	BOLT SIZE	RECOMMENDED BOLT TENSION RESIDUAL (kN)	MAXIMUM BOLT TENSION RESIDUAL (kN)	RECOMMENDED BOLT TORQUE u=0.10 (Nm)	MAXIMUM BOLT TORQUE u=0,10 (Nm)
1	1"	1/2"	1.87	2.79	14.8	21.4
1.5	1.5"	5/8"	4.95	7.42	43.5	64.2
2	2"	3/4"	5.40	8.09	42.1	61.3
В	2"	7/8"	10.6	15.5	120.3	177.9
3	3"	3/4"	7.64	11.02	58.3	85.6
C	3"	7/8"	10.6	15.5	120.3	177.9
4	3 4"	7/8"	10.6	15.5	120.3	177.9
D	4"	1"	14.2	20.7	166.1	241.3
5	5"	1"	14.2	20.7	166.1	241.3
E	6"	1"	14.2	20.7	166.1	241.3
6	6"	1-1/8"	18.2	26.8	259.0	381.5
F	6"	1-1/8"	18.2	26.8	259.0	381.5
XF	6"	1-1/4"	23.2	34.2	358.7	528.4
ZX	6"	1-1/4"	23.2	34.2	358.7	528.4
G	6"	1-3/8"	29.0	42.5	481.2	709.2
XG	6"	1-3/8"	29.0	42.5	481.2	709.2
8	8"	1-1/4"	23.2	34.2	358.7	528.4
X8	8"	1-3/8"	29.0	42.5	481.2	709.2
12M	12"	1-3/4"	49.5	72.8	1015.5	1485.6
X12M	12"	2"	66.3	97.8	1515.9	2231.7
14	14"	1-5/8"	42.0	61.8	803.7	1183.8
X14	14"	1-5/8"	42.0	61.8	803.7	1183.8
R	14"	1-7/8"	55.8	82.5	1149.8	1681.9
A-P	14"	2"	66.3	97.8	1515.9	2231.7
5P	14"	2-1/2"	107.5	158.0	2987.4	4399.2
16	16"	1-3/4"	49.5	72.8	1015.5	1485.6
X16	16"	1-3/4"	49.5	72.8	1015.5	1485.6
18	18"	1-7/8"	55.8	82.5	1149.8	1681.9
X18	18"	1-7/8"	55.8	82.5	1149.8	1681.9
U	18"	2-1/2"	107.5	158.0	2987.4	4399.2
20	20"	2"	66.3	97.8	1515.9	2231.7
X20	20"	2"	66.3	97.8	1515.9	2231.7
٧	20"	2-1/4"	89.5	131.1	1985.2	3194.1
3V	20"	2-1/4"	89.5	131.1	1985.2	3194.1
5V	20"	2-1/2"	107.5	158.0	2987.4	4399.2
W	22"	2-1/4"	89.5	131.1	1985.2	3194.1
3W	22"	2-1/2"	107.5	158.0	2987.4	4399.2
24	24"	2-1/4"	89.5	131.1	1985.2	3194.1
X24	24"	2-1/4"	89.5	131.1	1985.2	3194.1
Υ	24"	2-3/4"	113.5	180.3	3332.1	5300.3
3Y	24"	3-1/4"	187.3	275.8	6614.7	8860.4
28	28"	3-1/4"	187.3	275.8	6614.7	8860.4
30	30"	3-1/4"	187.3	275.8	6614.7	8860.4
32	32"	3-1/4"	187.3	275.8	6614.7	8860.4
34	34"	3-1/4"	187.3	275.8	6614.7	8860.4
36	36"	3-1/4"	187.3	275.8	6614.7	8860.4

Note

- Bolt material: ASTM A193 B7
- In case of friction coefficient different from 0,1 or different bolt material please contact our technical department