

11. Technical and Qualitative Specifications of the Goods

Nº	Title & Specifications	Standard	Unit	Quantity	Note
DN 1200 Bends without Coating, Steel X65M PSL2, Wall Thickness 17,5 mm, Ends to be Welded 15,9 mm, ANSI Class 600					
1	Bend 90° OD 1219; R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	4	Can be produced based on similar standards or technical conditions acceptable to GOGC (for example Газ TY 102-488/2-05, EN 14870-1, ISO 15590-1). GOGC. Inspection according EN 10204:2004 (3.2)
DN 1200 Bends with Factory Coating, Steel X65M PSL2, Wall Thickness 17,5 mm, Ends to be Welded 15,9 mm, ANSI Class 600					
2	Bend 90° OD 1219; R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	2	Can be produced based on similar standards or technical conditions acceptable to GOGC (for example Газ TY 102-488/2-05, EN 14870-1, ISO15590-1). External Coating - Fusion-bonded epoxy (EN 21809-2, FBE) minimum 500 µm or polyurethane (EN 10290, PUR, classB, Type 1) minimum 1000 µm or other standard acceptable for GOGC. Inspection according EN 10204:2004 (3.2)
3	Bend 45° OD 1219; R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	2	
4	Bend 15° OD 1219 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	4	
DN700 Bends with Factory Coating, Steel X60M PSL2, Wall Thickness 10.3 mm, Ends to be Welded 8.7 mm, ANSI Class 600					
5	Bend 15° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	2	Can be produced based on similar standards or technical conditions acceptable to GOGC (for example Газ TY 102-488/2-05, EN 14870-1, ISO15590-1). External Coating - Fusion-bonded epoxy (EN 21809-2, FBE) minimum 500 µm or polyurethane (EN 10290, PUR, classB, Type 1) minimum 1000 µm or other standard acceptable for GOGC. Inspection according EN 10204:2004 (3.2)
6	Bend 17° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	1	
7	Bend 18° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	2	
8	Bend 22° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	1	
9	Bend 25° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	1	
10	Bend 27° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	1	
11	Bend 32° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	1	
12	Bend 38° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	2	
13	Bend 42° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	1	
14	Bend 45° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	3	
15	Bend 50° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	2	
16	Bend 53° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	1	
17	Bend 54° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	2	
18	Bend 56° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	2	
19	Bend 57° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	1	
20	Bend 63° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	1	
21	Bend 83° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	1	
22	Bend 84° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	1	
23	Bend 86° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	1	
24	Bend 88° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	1	
25	Bend 90° OD 711.2 R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	3	
DN500 Bends without Coating, Steel X52M PSL2, Wall Thickness 14.3 mm, Ends to be Welded 11,9 mm, ANSI Class 600					
26	Bend 90° OD 508; R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	16	Can be produced based on similar standards or technical conditions acceptable to GOGC (for example Газ TY 102-488/2-05, EN 14870-1, ISO 15590-1). GOGC. Inspection according EN 10204:2004 (3.2)
27	Bend 45° OD 508; R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	6	
DN500 Bends with Factory Coating, Steel X52M PSL2, Wall Thickness 14.3 mm, Ends to be Welded 11,9 mm, ANSI Class 600					
28	Bend 45° OD 508; R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	6	Can be produced based on similar standards or technical conditions acceptable to GOGC (for example Газ TY 102-488/2-05, EN 14870-1, ISO15590-1). External Coating - Fusion-bonded epoxy (EN 21809-2, FBE) minimum 500 µm or polyurethane (EN 10290, PUR, classB, Type 1) minimum 1000 µm or other standard acceptable for GOGC. Inspection according EN 10204:2004 (3.2)

№	Title & Specifications	Standard	Unit	Quantity	Note
DN500 Bends with Factory Coating, Steel X52M PSL2, Wall Thickness 10.3 mm, Ends to be Welded 8.7 mm, ANSI Class 600					
29	Bend 90° OD 508; R=5DN; T.L = 650 mm	ASME/ANSI B16.49	Pcs	3	Can be produced based on similar standards or technical conditions acceptable to GOGC (for example Газ TY 102-488/2-05, EN 14870-1, ISO15590-1). External Coating - Fusion-bonded epoxy (EN 21809-2, FBE) minimum 500 µm or polyurethane (EN 10290, PUR, classB, Type 1) minimum 1000 µm or other standard acceptable for GOGC. Inspection according EN 10204:2004 (3.2)
DN300 Bends with Factory Coating, Steel X52M PSL2, Wall Thickness 8,4 mm, Ends to be Welded 7,1 mm, ANSI Class 600					
30	Bend 90° OD 323,9; R=1,5D	ASME B16.9 / MSS SP-75	Pcs	8	Can be produced based on similar standards or technical conditions acceptable to GOGC (for example Газ TY 102-488/2-05, EN 14870-2, ISO15590-2). External Coating - Fusion-bonded epoxy (EN 21809-2, FBE) minimum 500 µm or polyurethane (EN 10290, PUR, classB, Type 1) minimum 1000 µm or other standard acceptable for GOGC. Inspection according EN 10204:2004 (3.2)
DN150 Bends with Factory Coating, Steel X52 PSL2, Wall Thickness 7.1 mm, Ends to be Welded 5.6 mm, ANSI Class 600					
31	Bend 90° OD 168,3; R=1,5D	ASME B16.9 / MSS SP-75	Pcs	2	Can be produced based on similar standards or technical conditions acceptable to GOGC (for example Газ TY 102-488/2-05, EN 14870-2, ISO 15590-2). External Coating - Fusion-bonded epoxy (EN 21809-2, FBE) minimum 500 µm or polyurethane (EN 10290, PUR, classB, Type 1) minimum 1000 µm or other standard acceptable for GOGC. Inspection according EN 10204:2004 (3.2)
Tees with Factory Coating, ANSI Class 600					
32	Equal Tee 1219 (w.t. 15.9) X65M PSL2	ASME B16.9 / MSS SP-75	Pcs	2	Can be produced based on similar standards or technical conditions acceptable to GOGC (for example Газ TY 102-488/2-05, EN 14870-2, ISO15590-2). External Coating - Fusion-bonded epoxy (EN 21809-2, FBE) minimum 500 µm or polyurethane (EN 10290, PUR, classB, Type 1) minimum 1000 µm or other standard acceptable for GOGC. Inspection according EN 10204:2004 (3.2)
33	Reducing Tee (Barred) 1219 (w.t. 15.9) X65M PSL2 - 323,9 (w.t.7,1) X52M PSL2	ASME B16.9 / MSS SP-75	Pcs	6	
34	Reducing Tee (Barred) 711.2 (w.t.11,9) X60M PSL2 – 508 (w.t.11.1) X52M PSL2	ASME B16.9 / MSS SP-75	Pcs	3	
35	Reducing Tee 530 (w.t.11) X52M PSL2 – 508 (w.t. 11.1) X52M PSL2	ASME B16.9 / MSS SP-75	Pcs	1	
36	Reducing Tee 508 (w.t.11.1) X52M PSL2 - 168.3 (w.t. 6.4) X52M PSL2	ASME B16.9 / MSS SP-75	Pcs	2	
37	Equal Tee 323,9 (w.t.12) X52M PSL2	ASME B16.9 / MSS SP-75	Pcs	2	
38	Equal Tee 168.3 (w.t.7,1) X52M PSL2	ASME B16.9 / MSS SP-75	Pcs	2	
End cap, Steel X60 PSL2, ANSI Class 600					
39	End cap 1219	ASME B16.9 / MSS SP-75	Pcs	4	Can be produced based on similar standards or technical conditions acceptable to GOGC (for example EN 14870-2, ISO 15590-2). Inspection according EN 10204:2004 (3.2)
40	End cap 323,9	ASME B16.9 / MSS SP-75	Pcs	6	

a) Induction Bends. Typical steel bend for main gas and oil pipelines:

- Actual thickness of bend walls on the outer arc of the bended area – no less than required;
- Climatic conditions – minimum temperature of pipeline wall during the operation -20°C.

b) Tees. Typical stamp welded steel tee for main gas and oil pipelines:

- Climatic conditions – minimum temperature of pipeline wall during the operation -20°C

c) End cap. Typical stamp welded ellipse steel end-cap for main gas and oil pipelines:

- Climatic conditions – minimum temperature of pipeline wall during the operation -20°C

Note:

1. Inspection according EN 10204:2004 3.2. Document prepared by both the manufacturer's authorized inspection representative, independent of the manufacturing department and inspector designated by the official regulations and in which they declare that the Goods are in compliance with the requirements of the order and in which test results are supplied.

2. In case, the bidder offers Goods manufactured based on other similar standards and/or technical specifications than it is defined in the tender documentation, the bidder shall submit information about the exact version of the standard(s) and/or technical specification(s) that is used during the manufacturing of the Goods (including coating).