



تاریخ:

شماره:

پیوست:

شرکت مهندسی و پویش ساخت ذوب آهن (سهامی خاص)

شماره ثبت ۵۳۳۷۹

شناسه ملی ۱۴۰۰۴۶۴۸۸۴۵

تجدید سوم اعلام

شماره اعلام: ۱۴۰۴۰۰۵

موضوع: خرید لوله ، فلنج و تبدیل و ... مطابق لیست پیوست

این شرکت در نظر دارد موارد ذیل را از طریق تامین کنندگان واجد شرایط خریداری نماید. لذا تقاضا دارد حداقل قیمت پیشنهادی خود را تا روز دوشنبه ساعت ۱۶ بعد از ظهر مورخ ۱۴۰۴/۰۴/۳۰ به آدرس ذیل ایمیل فرمایید.

ردیف	شرح کالا	تعداد	قیمت واحد پیشنهادی	جمع قیمت پیشنهادی
۱	مطابق لیست پیوست			
	جمع قیمت های پیشنهادی			
	۱۰٪ مالیات بر ارزش افزوده			
	جمع کل			

در صورت داشتن هر سوالی با آقای مهندس ارجمند به شماره ۰۹۱۳۴۲۵۹۹۵۸ تماس حاصل فرمایید.

سایر شرایط:

آدرس:

تلفن ثابت:

تلفن همراه:

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آدرس ذوب آهن: اصفهان-۴۵ کیلومتری جاده اصفهان به شهرکرد- کارخانه ذوب آهن اصفهان- ساختمان نبوت- تلفن: ۰۳۱۵۲۵۷۶۱۹۱ و ۰۳۱۵۲۵۷۶۱۹۳

دورنگار: ۰۳۱۵۲۵۷۶۰۷۰- کد پستی: ۸۴۷۷۱۵۳۱۱۱ - آدرس سایت: info@epesco.com

ROW	TYPE	SIZE 1	SIZE 2	SIZE 3	DESCRIPTION	MATERIAL	QUANTITY
1	TUBI	200	0	0	PIPE ASME B36.10 SCH.20 BE ERW	API 5L GR.B WELD	30
2	TUBI	300	0	0	PIPE ASME B36.10 SCH.20 BE ERW	API 5L GR.B WELD	18
3	TUBI	400	0	0	PIPE ASME B36.10 SCH.20 BE ERW	API 5L GR.B WELD	84
4	TUBI	50	0	0	PIPE ASME B36.10 SCH.40 BE	API 5L GR.B SMLS	720
5	TUBI	100	0	0	PIPE ASME B36.10 SCH.40 BE	API 5L GR.B SMLS	1980
6	TUBI	125	0	0	PIPE ASME B36.10 SCH.40 BE	API 5L GR.B SMLS	6
7	TUBI	15	0	0	PIPE ASME B36.10 SCH.80 PE	API 5L GR.B SMLS	300
8	TUBI	20	0	0	PIPE ASME B36.10 SCH.80 PE	API 5L GR.B SMLS	84
9	TUBI	40	0	0	PIPE ASME B36.10 SCH.80 PE	API 5L GR.B SMLS	24
10	TUBI	250	0	0	PIPE ASME B36.10 SCH.20 BE ERW	API 5L GR.B WELD	12
11	TUBI	80	0	0	PIPE ASME B36.10 SCH.40 BE	API 5L GR.B SMLS	30
12	TUBI	150	0	0	PIPE ASME B36.10 SCH.40 BE ERW	API 5L GR.B WELD	30
13	TUBI	25	0	0	PIPE ASME B36.10 SCH.80 PE	API 5L GR.B SMLS	280
14	TUBI	32	0	0	PIPE ASME B36.10 SCH.80 PE	API 5L GR.B SMLS	18
15	TUBI	80	0	0	PIPE ASME B36.19 SCH.10S BE	A312 GR.TP304 SMLS OR WELDED	12
16	TUBI	100	0	0	PIPE ASME B36.19 SCH.10S BE	A312 GR.TP304 SMLS OR WELDED	120
17	TUBI	25	0	0	PIPE ASME B36.19 SCH.10S PE	A312 GR.TP304 SMLS OR WELDED	18
18	TUBI	40	0	0	PIPE ASME B36.19 SCH.10S PE	A312 GR.TP304 SMLS OR WELDED	120
19	TUBI	15	0	0	PIPE ASME B36.19 SCH.40S PE	A312 GR.TP304 SMLS OR WELDED	30
20	TUBI	15	0	0	PIPE ASME B36.10 SCH.80 PE	A53 GR.B (HOT DEEP GALVANIZED)	18
21	TUBI	100	0	0	PIPE ASME B36.10 SCH.80 PE	A53 GR.B (HOT DEEP GALVANIZED)	6
22	TUBI	15	0	0	PIPE ASME B36.19 SCH.40S PE	A312 GR.TP316L SMLS OR WELDED	18
23	TUBI	25	0	0	PIPE ASME B36.19 SCH.10S PE	A312 GR.TP316L SMLS OR WELDED	84
24	TUBI	50	0	0	PIPE ASME B36.19 SCH.10S BE	A312 GR.TP316L SMLS OR WELDED	300
25	TUBI	65	0	0	PIPE ASME B36.19 SCH.10S BE	A312 GR.TP316L SMLS OR WELDED	6
26	TUBI	50	0	0	PIPE, BUTT FUSION, PLAIN END, DIN 8074, PN16, SDR11, PE100	HDPE	84
27	TUBI	75	0	0	PIPE, BUTT FUSION, PLAIN END, DIN 8074, PN16, SDR11, PE100	HDPE	6
28	TUBI	90	0	0	PIPE, BUTT FUSION, PLAIN END, DIN 8074, PN16, SDR11, PE100	HDPE	210
29	TUBI	110	0	0	PIPE, BUTT FUSION, PLAIN END, DIN 8074, PN16, SDR11, PE100	HDPE	930
30	TUBI	140	0	0	PIPE, BUTT FUSION, PLAIN END, DIN 8074, PN16, SDR11, PE100	HDPE	6
31	TUBI	160	0	0	PIPE, BUTT FUSION, PLAIN END, DIN 8074, PN16, SDR11, PE100	HDPE	900
32	TUBI	200	0	0	PIPE, BUTT FUSION, PLAIN END, DIN 8074, PN16, SDR11, PE100	HDPE	60
33	TUBI	250	0	0	PIPE, BUTT FUSION, PLAIN END, DIN 8074, PN16, SDR11, PE100	HDPE	270
34	TUBI	400	0	0	PIPE ASME B36.10 SCH.20 BE	A106 GR.B SMLS	18
35	TUBI	50	0	0	PIPE ASME B36.10 SCH.40 BE	A106 GR.B SMLS	18
36	TUBI	100	0	0	PIPE ASME B36.10 SCH.40 BE	A106 GR.B SMLS	84
37	TUBI	15	0	0	PIPE ASME B36.10 SCH.80 PE	A106 GR.B SMLS	280
38	TUBI	25	0	0	PIPE ASME B36.10 SCH.80 PE	A106 GR.B SMLS	84
ROW	TYPE	SIZE 1	SIZE 2	SIZE 3	DESCRIPTION	MATERIAL	QUANTITY
39	TRELLEX	250	250	0	Hose Bend 90 Degree, R=5 x D,Wear Tube of Trellex 40 Rubber, Reinforced, Manufacture Standard,WITH 2 MAINTENANCE FLANGE ASME16.5#150	Reinforced Rubber Hose	2
40	TRELLEX	250	250	0	Hose Bend 90 Degree, R=5 x D,Wear Tube of Trellex 40 Rubber, Reinforced, Manufacture Standard,WITH 2 MAINTENANCE FLANGE ASME16.5#150	Reinforced Rubber Hose	7
41	TRELLEX	150	150	0	Hose Bend 90 Degree, R=5 x D,Wear Tube of Trellex 40 Rubber, Reinforced, Manufacture Standard,WITH 2 MAINTENANCE FLANGE ASME16.5#150	Reinforced Rubber Hose	22
42	TRELLEX	150	150	0	Hose Bend 90 Degree, R=5 x D,Wear Tube of Trellex 40 Rubber, Reinforced, Manufacture Standard,WITH 2 MAINTENANCE FLANGE ASME16.5#150	Reinforced Rubber Hose	12
43	TRELLEX	300	300	0	Hose Bend 90 Degree, R=5 x D,Wear Tube of Trellex 40 Rubber, Reinforced, Manufacture Standard,WITH 2 MAINTENANCE FLANGE ASME16.5#150	Reinforced Rubber Hose	6
43	TRELLEX	300	300	0	Hose Bend 90 Degree, R=5 x D,Wear Tube of Trellex 40 Rubber, Reinforced, Manufacture Standard,WITH 2 MAINTENANCE FLANGE ASME16.5#150	Reinforced Rubber Hose	2
ROW	TYPE	SIZE 1	SIZE 2	SIZE 3	DESCRIPTION	MATERIAL	QUANTITY
44	TEE	20	20	20	TEE.EQUAL ASME B16.11 #3000 SW	ASTM A105	32
45	TEE	200	200	200	TEE.EQUAL ASME B16.9 SCH.20 BW	ASTM A234 GR.WPBW	2
46	TEE	50	50	50	TEE.EQUAL ASME B16.9 SCH.40 BW	ASTM A234 GR.WPBW	1
47	TEE	100	100	100	TEE.EQUAL ASME B16.9 SCH.40 BW	ASTM A234 GR.WPB	2
48	TEE	125	125	125	TEE.EQUAL ASME B16.9 SCH.40 BW	ASTM A234 GR.WPB	3
49	TEE	100	100	50	TEE.REDUCE ASME 16.9 BW	ASTM A234 GR.WPB	1
50	TEE	100	100	80	TEE.REDUCE ASME 16.9 BW	ASTM A234 GR.WPB	7
51	TEE	20	20	15	TEE.REDUCE ASME B16.11 #3000 SW	ASTM A105	4
52	TEE	250	250	250	TEE.EQUAL ASME B16.9 SCH.20 BW	ASTM A234 GR.WPBW	1
53	TEE	150	150	150	TEE.EQUAL ASME B16.9 SCH.40 BW	ASTM A234 GR.WPBW	9
54	TEE	150	150	80	TEE.REDUCE ASME 16.9 BW	ASTM A234 GR.WPBW	4
55	TEE	250	250	100	TEE.REDUCE ASME 16.9 BW	ASTM A234 GR.WPBW	1
56	TEE	250	250	125	TEE.REDUCE ASME 16.9 BW	ASTM A234 GR.WPBW	1
57	TEE	250	250	150	TEE.REDUCE ASME 16.9 BW	ASTM A234 GR.WPBW	1
58	TEE	40	40	40	TEE.EQUAL ASME B16.9 SCH.10S BW	A403.GR.WP304	1
59	TEE	100	100	100	TEE.EQUAL ASME B16.9 SCH.10S BW	A403.GR.WP304	4
60	TEE	100	100	50	TEE.REDUCE.SCH.10S, ASME 16.9 BW	A403.GR.WP304	1
61	TEE	100	100	80	TEE.REDUCE.SCH.10S, ASME 16.9 BW	A403.GR.WP304	1
62	TEE	15	15	15	TEE.EQUAL ASME B16.11 #3000 ASME B1.20.1 FNPT	A105-HOT DEEP GALVANIZED	4
63	TEE	100	100	32	TEE REDUCE ASME B16.11 #3000 ASME B1.20.1 FNPT	A105-HOT DEEP GALVANIZED	4
64	TEE	15	15	15	TEE.EQUAL ASME B16.11 #3000 SW	A182.GR.F316	14
65	TEE	25	25	25	TEE.EQUAL ASME B16.11 #3000 SW	A182.GR.F316	2
66	TEE	65	65	65	TEE.EQUAL ASME B16.9 SCH.10S BW	A403.GR.WP316L	3
67	TEE	50	50	50	TEE.REDUCE.SCH.10S, ASME 16.9 BW	A403.GR.WP316L	12
68	TEE	15	15	15	TEE.EQUAL ASME B16.11 #3000 SW	ASTM A105	8
69	TEE	25	25	25	TEE.EQUAL ASME B16.11 #3000 SW	ASTM A105	7
70	TEE	25	25	15	TEE.REDUCE ASME B16.11 #3000 SW	ASTM A105	6
71	TEE	50	50	50	TEE EQUAL, BUTT FUSION, DIN 16963 PART 6, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	3
72	TEE	90	90	90	TEE EQUAL, BUTT FUSION, DIN 16963 PART 6, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	2
73	TEE	110	110	110	TEE EQUAL, BUTT FUSION, DIN 16963 PART 6, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	4
74	TEE	160	160	160	TEE EQUAL, BUTT FUSION, DIN 16963 PART 6, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	3
75	TEE	110	110	20	TEE REDUCING, BUTT FUSION, DIN 16963 PART 2, PREFABRICATED SEGMENTAL CONSTRUCTION, PN16, SDR11, PE100	HDPE	7
76	TEE	110	110	25	TEE REDUCING, BUTT FUSION, DIN 16963 PART 2, PREFABRICATED SEGMENTAL CONSTRUCTION, PN16, SDR11, PE100	HDPE	3
77	TEE	160	160	20	TEE REDUCING, BUTT FUSION, DIN 16963 PART 2, PREFABRICATED SEGMENTAL CONSTRUCTION, PN16, SDR11, PE100	HDPE	3
78	TEE	160	160	25	TEE REDUCING, BUTT FUSION, DIN 16963 PART 2, PREFABRICATED SEGMENTAL CONSTRUCTION, PN16, SDR11, PE100	HDPE	1
79	TEE	250	250	110	TEE REDUCING, BUTT FUSION, DIN 16963 PART 2, PREFABRICATED SEGMENTAL CONSTRUCTION, PN16, SDR11, PE100	HDPE	3
ROW	TYPE	SIZE 1	SIZE 2	SIZE 3	DESCRIPTION	MATERIAL	QUANTITY
80	TAPPING SADDLE	200	200	50	SADDLE CLAMP, FEMALE THREADS BRANCH, NBR/EPDM WASHER, PN10		1
81	TAPPING SADDLE	200	200	100	SADDLE CLAMP, FEMALE THREADS BRANCH, NBR/EPDM WASHER, PN10		15
ROW	TYPE	SIZE 1	SIZE 2	SIZE 3	DESCRIPTION	MATERIAL	QUANTITY
82	REDU	200	100	0	REDUCER CONCENTRIC ASME B16.9 SCH.20 BW	ASTM A234 GR.WPBW	1
83	REDU	300	200	0	REDUCER CONCENTRIC ASME B16.9 SCH.20 BW	ASTM A234 GR.WPBW	1
84	REDU	400	300	0	REDUCER CONCENTRIC ASME B16.9 SCH.20 BW	ASTM A234 GR.WPBW	2
85	REDU	100	80	0	REDUCER ECCENTRIC ASME B16.9 SCH.40 BW	ASTM A234 GR.WPB	3
86	REDU	20	15	0	REDUCER BUSHING ASME B16.11 #3000 ASME B1.20.1 FNPT	A105-HOT DEEP GALVANIZED	4
87	REDU	32	15	0	REDUCER BUSHING ASME B16.11 #3000 ASME B1.20.1 FNPT	A105-HOT DEEP GALVANIZED	4
88	REDU	50	15	0	REDUCER BUSHING ASME B16.11 #3000 ASME B1.20.1 FNPT	A105-HOT DEEP GALVANIZED	2
89	REDU	50	20	0	REDUCER BUSHING ASME B16.11 #3000 ASME B1.20.1 FNPT	A105-HOT DEEP GALVANIZED	2
90	REDU	100	20	0	REDUCER ECCENTRIC ASME B16.11 #3000 ASME B1.20.1 FNPT	A105-HOT DEEP GALVANIZED	2
91	REDU	50	40	0	REDUCER CONCENTRIC ASME B16.9 SCH.10S BW	A403.GR.WP316L	1
92	REDU	110	75	0	CONCENTRIC REDUCER, BUTT FUSION, DIN 16963 PART 6, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	3
93	REDU	140	110	0	CONCENTRIC REDUCER, BUTT FUSION, DIN 16963 PART 6, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	6
94	REDU	160	110	0	CONCENTRIC REDUCER, BUTT FUSION, DIN 16963 PART 6, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	143
95	REDU	315	250	0	ECCENTRIC REDUCER, BUTT FUSION, DIN 16963 PART 6, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	115
ROW	TYPE	SIZE 1	SIZE 2	SIZE 3	DESCRIPTION	MATERIAL	QUANTITY
96	OLET	40	40	15	SOCKOLET FORGED ASME B16.11 #3000 MSS SP97, SW	ASTM A105	15
97	OLET	100	100	15	SOCKOLET FORGED ASME B16.11 #3000 MSS SP97, SW	ASTM A105	15
98	OLET	50	50	15	WELDOLET FORGED ASME B16.11 SCH.40 MSS SP97, BW	ASTM A105	10
99	OLET	50	50	15	WELDOLET FORGED ASME B16.11 SCH.10S MSS SP97, BW	A182.GR.F316	60
ROW	TYPE	SIZE 1	SIZE 2	SIZE 3	DESCRIPTION	MATERIAL	QUANTITY
100	GASK	40	40	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK<3.0mm,ASME B16.21	NBR/SBR	20
101	GASK	50	50	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK<3.0mm,ASME B16.21	NBR/SBR	17
102	GASK	100	100	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK<3.0mm,ASME B16.21	NBR/SBR	61
103	GASK	250	250	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK<3.0mm,ASME B16.21	NBR/SBR	12
104	GASK	125	125	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK<3.0mm,ASME B16.21	NBR/SBR	14
105	GASK	150	150	0	SPIRAL WOUND GASKET,ASME B16.5 #150,RF,THK<3.2mm,ASME B16.20	304SS/FLEXIBLE GRAPHITE FILLER	20
106	GASK	250	250	0	SPIRAL WOUND GASKET, ASME B16.5 #150, RF, THK<3.2mm, ASME B16.20, 304SS/FLEXIBLE GRAPHITE FILLER, CC	NBR/SBR	7
107	GASK	15	15	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK<1.5mm,ASME B16.21	PTFE	15

108	GASK	25	25	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK=1.5mm,ASME B16.21		PTFE	18
109	GASK	40	40	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK=1.5mm,ASME B16.21		PTFE	5
110	GASK	80	80	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK=1.5mm,ASME B16.21		PTFE	10
111	GASK	100	100	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK=1.5mm,ASME B16.21		PTFE	220
112	GASK	50	50	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK=1.5mm,ASME B16.21		PTFE	40
113	GASK	65	65	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK=1.5mm,ASME B16.21		PTFE	3
114	GASK	15	15	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK=3.0mm,ASME B16.21		NBR/SBR	61
115	GASK	25	25	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK=3.0mm,ASME B16.21		NBR/SBR	1
116	GASK	80	80	0	FLAT RING GASKET C.A.F.ASME B16.5 #150,RF,THK=3.0mm,ASME B16.21		NBR/SBR	11
117	GASK	50	50	0	SPIRAL WOUND GASKET, ASME B16.5 #150, RF, THK=3.2mm, ASME B16.20, 304SS/FLEXIBLE GRAPHITE FILLER, CC		NBR/SBR	143
118	GASK	160	160	0	SPIRAL WOUND GASKET, ASME B16.5 #150, RF, THK=3.2mm, ASME B16.20, 304SS/FLEXIBLE GRAPHITE FILLER, CC		NBR/SBR	110
119	GASK	200	200	0	FLAT RING GASKET ASME B16.5 #150,RF,THK=3.0mm,ASME B16.21		NBR/SBR	14
120	GASK	75	75	0	SPIRAL WOUND GASKET, ASME B16.5 #150, RF, THK=3.2mm, ASME B16.20, 304SS/FLEXIBLE GRAPHITE FILLER, CC		NBR/SBR	6
121	GASK	110	110	0	SPIRAL WOUND GASKET, ASME B16.5 #150, RF, THK=3.2mm, ASME B16.20, 304SS/FLEXIBLE GRAPHITE FILLER, CC		NBR/SBR	3
122	GASK	400	400	0	SPIRAL WOUND GASKET,ASME B16.5 #150,RF,THK=3.2mm,ASME B16.20	304SS/FLEXIBLE GRAPHITE FILLER		5
123	GASK	140	140	0	SPIRAL WOUND GASKET, ASME B16.5 #150, RF, THK=3.2mm, ASME B16.20, 304SS/FLEXIBLE GRAPHITE FILLER, CC		NBR/SBR	1
124	GASK	315	315	0	SPIRAL WOUND GASKET, ASME B16.5 #150, RF, THK=3.2mm, ASME B16.20, 304SS/FLEXIBLE GRAPHITE FILLER, CC		NBR/SBR	5
125	GASK	90	90	0	SPIRAL WOUND GASKET, ASME B16.5 #150, RF, THK=3.2mm, ASME B16.20, 304SS/FLEXIBLE GRAPHITE FILLER, CC		NBR/SBR	10
ROW	TYPE	SIZE 1	SIZE 2	SIZE 3	DESCRIPTION		MATERIAL	QUANTITY
126	FLAN	200	200	0	FLANGE ASME B16.5 #150 SCH.20 WN RF		ASTM A105	12
127	FLAN	50	50	0	FLANGE ASME B16.5 #150 SCH.40 WN RF		ASTM A105	7
128	FLAN	100	100	0	FLANGE ASME B16.5 #150 SCH.40 WN RF		ASTM A105	2
129	FLAN	125	125	0	FLANGE ASME B16.5 #150 SCH.40 WN RF		ASTM A105	5
130	FLAN	40	40	0	FLANGE ASME B16.5 #150 SCH.80 WN RF		ASTM A105	12
131	FLAN	20	20	0	FLANGE ASME B16.5 #150 SW RF		ASTM A105	10
132	FLAN	100	100	0	FLANGE BLIND ASME B16.5 #150 RF		ASTM A105	11
133	FLAN	125	125	0	FLANGE BLIND ASME B16.5 #150 RF		ASTM A105	53
134	FLAN	250	250	0	FLANGE BLIND ASME B16.5 #150 RF		ASTM A105	4
135	FLAN	250	250	0	FLANGE ASME B16.5 #150 SCH.20 WN RF		ASTM A105	2
136	FLAN	80	80	0	FLANGE ASME B16.5 #150 SCH.40 WN RF		ASTM A105	16
137	FLAN	150	150	0	FLANGE ASME B16.5 #150 SCH.40 WN RF		ASTM A105	7
138	FLAN	150	150	0	FLANGE BLIND ASME B16.5 #150 RF		ASTM A105	7
139	FLAN	80	80	0	FLANGE ASME B16.5 #150 SCH.10S WN RF	A182.GR.F304		5
140	FLAN	100	100	0	FLANGE ASME B16.5 #150 SCH.10S WN RF	A182.GR.F304		2
141	FLAN	15	15	0	FLANGE ASME B16.5 #150 SW RF	A182.GR.F304		3
142	FLAN	25	25	0	FLANGE ASME B16.5 #150 SW RF	A182.GR.F304		10
143	FLAN	40	40	0	FLANGE ASME B16.5 #150 SW RF	A182.GR.F304		18
144	FLAN	40	40	0	FLANGE BLIND ASME B16.5 #150 RF	A182.GR.F304		10
145	FLAN	100	100	0	FLANGE BLIND ASME B16.5 #150 RF	A182.GR.F304		3
146	FLAN	50	50	0	FLANGE ASME B16.5 #150 SCH.10S WN RF	A182.GR.F316		24
147	FLAN	65	65	0	FLANGE ASME B16.5 #150 SCH.10S WN RF	A182.GR.F316		61
148	FLAN	15	15	0	FLANGE ASME B16.5 #150 SW RF	A182.GR.F316		13
149	FLAN	25	25	0	FLANGE ASME B16.5 #150 SW RF	A182.GR.F316		13
150	FLAN	15	15	0	FLANGE BLIND ASME B16.5 #150 RF	A182.GR.F316		218
151	FLAN	50	50	0	FLANGE BLIND ASME B16.5 #150 RF	A182.GR.F316		29
152	FLAN	15	15	0	FLANGE BLIND ASME B16.5 #150 RF	ASTM A105		60
153	FLAN	25	25	0	FLANGE BLIND ASME B16.5 #150 RF	ASTM A105		2
ROW	TYPE	SIZE 1	SIZE 2	SIZE 3	DESCRIPTION		MATERIAL	QUANTITY
154	FLAN	50	50	0	FLANGE ADAPTOR & BACK RING/FLANGE A: SEPRATED FACE, BUTT FUSION, DIN 16963 PART 4, INJECTION MOLDED TYPE A, PN16, SDR11, PE100/BACKING R-BACKING FLANGE RINGS ID: ACC. TO DIN 16943-4, OD: ACC. TO ASME B16.5, CLASS150, THICK. ACCORDING TO DIN 2501, DRILLING ACCORDING TO ASME B16.5, CALSS #150, CARBON STEEL	HDPE		2
155	FLAN	75	75	0	FLANGE ADAPTOR & BACK RING/FLANGE A: SEPRATED FACE, BUTT FUSION, DIN 16963 PART 4, INJECTION MOLDED TYPE A, PN16, SDR11, PE100/BACKING R-BACKING FLANGE RINGS ID: ACC. TO DIN 16943-4, OD: ACC. TO ASME B16.5, CLASS150, THICK. ACCORDING TO DIN 2501, DRILLING ACCORDING TO ASME B16.5, CALSS #150, CARBON STEEL	HDPE		1
156	FLAN	90	90	0	FLANGE ADAPTOR & BACK RING/FLANGE A: SEPRATED FACE, BUTT FUSION, DIN 16963 PART 4, INJECTION MOLDED TYPE A, PN16, SDR11, PE100/BACKING R-BACKING FLANGE RINGS ID: ACC. TO DIN 16943-4, OD: ACC. TO ASME B16.5, CLASS150, THICK. ACCORDING TO DIN 2501, DRILLING ACCORDING TO ASME B16.5, CALSS #150, CARBON STEEL	HDPE		5
157	FLAN	110	110	0	FLANGE ADAPTOR & BACK RING/FLANGE A: SEPRATED FACE, BUTT FUSION, DIN 16963 PART 4, INJECTION MOLDED TYPE A, PN16, SDR11, PE100/BACKING R-BACKING FLANGE RINGS ID: ACC. TO DIN 16943-4, OD: ACC. TO ASME B16.5, CLASS150, THICK. ACCORDING TO DIN 2501, DRILLING ACCORDING TO ASME B16.5, CALSS #150, CARBON STEEL	HDPE		5
158	FLAN	140	140	0	FLANGE ADAPTOR & BACK RING/FLANGE A: SEPRATED FACE, BUTT FUSION, DIN 16963 PART 4, INJECTION MOLDED TYPE A, PN16, SDR11, PE100/BACKING R-BACKING FLANGE RINGS ID: ACC. TO DIN 16943-4, OD: ACC. TO ASME B16.5, CLASS150, THICK. ACCORDING TO DIN 2501, DRILLING ACCORDING TO ASME B16.5, CALSS #150, CARBON STEEL	HDPE		4
159	FLAN	160	160	0	FLANGE ADAPTOR & BACK RING/FLANGE A: SEPRATED FACE, BUTT FUSION, DIN 16963 PART 4, INJECTION MOLDED TYPE A, PN16, SDR11, PE100/BACKING R-BACKING FLANGE RINGS ID: ACC. TO DIN 16943-4, OD: ACC. TO ASME B16.5, CLASS150, THICK. ACCORDING TO DIN 2501, DRILLING ACCORDING TO ASME B16.5, CALSS #150, CARBON STEEL	HDPE		3
160	FLAN	200	200	0	FLANGE ADAPTOR & BACK RING, SEPRATED FACE, BUTT FUSION, DIN 16963 PART 4, INJECTION MOLDED TYPE A	HDPE		6
161	FLAN	250	250	0	FLANGE ADAPTOR & BACK RING/FLANGE A: SEPRATED FACE, BUTT FUSION, DIN 16963 PART 4, INJECTION MOLDED TYPE A, PN16, SDR11, PE100/BACKING R-BACKING FLANGE RINGS ID: ACC. TO DIN 16943-4, OD: ACC. TO ASME B16.5, CLASS150, THICK. ACCORDING TO DIN 2501, DRILLING ACCORDING TO ASME B16.5, CALSS #150, CARBON STEEL	HDPE		103
162	FLAN	315	315	0	FLANGE ADAPTOR & BACK RING/FLANGE A: SEPRATED FACE, BUTT FUSION, DIN 16963 PART 4, INJECTION MOLDED TYPE A, PN16, SDR11, PE100/BACKING R-BACKING FLANGE RINGS ID: ACC. TO DIN 16943-4, OD: ACC. TO ASME B16.5, CLASS150, THICK. ACCORDING TO DIN 2501, DRILLING ACCORDING TO ASME B16.5, CALSS #150, CARBON STEEL	HDPE		161
163	FLAN	400	400	0	FLANGE ASME B16.5 #150 SCH.20 WN RF	ASTM A105		56
164	FLAN	15	15	0	FLANGE ASME B16.5 #150 SW RF	ASTM A105		9
ROW	TYPE	SIZE 1	SIZE 2	SIZE 3	DESCRIPTION		MATERIAL	QUANTITY
165	ELBO	100	100	0	ELBOW 45(LR) ASME B16.9 SCH.40 BW	ASTM A234 GR WPB		4
166	ELBO	200	200	0	ELBOW 90(LR) ASME B16.9 SCH.20 BW	ASTM A234 GR WPB		5
167	ELBO	300	300	0	ELBOW 90(LR) ASME B16.9 SCH.20 BW	ASTM A234 GR WPB		4
168	ELBO	400	400	0	ELBOW 90(LR) ASME B16.9 SCH.20 BW	ASTM A234 GR WPB		1
169	ELBO	50	50	0	ELBOW 90(LR) ASME B16.9 SCH.40 BW	ASTM A234 GR WPB		36
170	ELBO	100	100	0	ELBOW 90(LR) ASME B16.9 SCH.40 BW	ASTM A234 GR WPB		168
171	ELBO	15	15	0	ELBOW 90(SR) ASME B16.11 #3000 SW	ASTM A105		6
172	ELBO	20	20	0	ELBOW 90(SR) ASME B16.11 #3000 SW	ASTM A105		62
173	ELBO	40	40	0	ELBOW 90(SR) ASME B16.11 #3000 SW	ASTM A105		2
174	ELBO	100	100	0	ELBOW 45(LR) ASME B16.9 SCH.40 BW	ASTM A234 GR WPB		6
175	ELBO	125	125	0	ELBOW 45(LR) ASME B16.9 SCH.40 BW	ASTM A234 GR WPB		6
176	ELBO	150	150	0	ELBOW 45(LR) ASME B16.9 SCH.40 BW	ASTM A234 GR.WPBW		19
177	ELBO	50	50	0	ELBOW 90(LR) ASME B16.9 SCH.40 BW	ASTM A234 GR WPB		1
178	ELBO	100	100	0	ELBOW 90(LR) ASME B16.9 SCH.40 BW	ASTM A234 GR WPB		12
179	ELBO	150	150	0	ELBOW 90(LR) ASME B16.9 SCH.40 BW	ASTM A234 GR.WPBW		3
180	ELBO	25	25	0	ELBOW 90(SR) ASME B16.11 #3000 SW	ASTM A105		1
181	ELBO	25	25	0	ELBOW 45(LR) ASME B16.9 SCH.10S BW	A403.GR.WP304		28
182	ELBO	15	15	0	ELBOW 90(LR) ASME B16.9 SCH.10S BW	A403.GR.WP304		1
183	ELBO	25	25	0	ELBOW 90(LR) ASME B16.9 SCH.10S BW	A403.GR.WP304		5
184	ELBO	40	40	0	ELBOW 90(LR) ASME B16.9 SCH.10S BW	A403.GR.WP304		9
185	ELBO	80	80	0	ELBOW 90(LR) ASME B16.9 SCH.10S BW	A403.GR.WP304		4
186	ELBO	100	100	0	ELBOW 90(LR) ASME B16.9 SCH.10S BW	A403.GR.WP304		4
187	ELBO	15	15	0	ELBOW 90 ASME B16.11 #3000 ASME B1.20.1 FNPT	ASTM A105 (HOT DEEP GALVANIZED)		1
188	ELBO	15	15	0	ELBOW 45(SR) ASME B16.11 #3000 SW	A182.GR.F316		7
189	ELBO	50	50	0	ELBOW 90(LR) ASME B16.9 SCH.10S BW	A403.GR.WP316L		1
190	ELBO	65	65	0	ELBOW 90(LR) ASME B16.9 SCH.10S BW	A403.GR.WP316L		2
191	ELBO	15	15	0	ELBOW 90(SR) ASME B16.11 #3000 SW	A182.GR.F316		1
192	ELBO	25	25	0	ELBOW 90(SR) ASME B16.11 #3000 SW	A182.GR.F316		6
193	ELBO	25	25	0	ELBOW 45(SR) ASME B16.11 #3000 SW	ASTM A105		4
194	ELBO	80	80	0	ELBOW 90(LR) ASME B16.9 SCH.40 BW	ASTM A234 GR.WPB		15
195	ELBO	400	400	0	ELBOW 90(LR) ASME B16.9 SCH.20 BW	ASTM A234 GR.WPBW		4
ROW	TYPE	SIZE 1	SIZE 2	SIZE 3	DESCRIPTION		MATERIAL	QUANTITY
196	BEND	110	110	0	BEND 30, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE		3
197	BEND	160	160	0	BEND 30, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE		3
198	BEND	200	200	0	BEND 30, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE		10
199	BEND	250	250	0	BEND 30, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE		1
200	BEND	110	110	0	BEND 45, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE		1
201	BEND	140	140	0	BEND 45, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE		11
202	BEND	160	160	0	BEND 45, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE		47
203	BEND	200	200	0	BEND 45, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE		116
204	BEND	250	250	0	BEND 45, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE		144
205	BEND	110	110	0	BEND 60, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE		5

206	BEND	160	160	0	BEND 60, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	13
207	BEND	200	200	0	BEND 60, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	23
208	BEND	250	250	0	BEND 60, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	22
209	BEND	50	50	0	BEND 90, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	2
210	BEND	90	90	0	BEND 90, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	22
211	BEND	110	110	0	BEND 90, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	10
212	BEND	160	160	0	BEND 90, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	5
213	BEND	200	200	0	BEND 90, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	6
214	BEND	250	250	0	BEND 90, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	24
215	BEND	110	110	0	BEND 90, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	10
216	BEND	160	160	0	BEND 90, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	10
217	BEND	200	200	0	BEND 45, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	4
218	BEND	250	250	0	BEND 45, BUTT FUSION, DIN 16963 PART 1 TYPE A, INJECTION MOLDED, PN16, SDR11, PE100	HDPE	4