

		PLANILHA GERAL DE IDENTIFICAÇÃO DE MATÉRIA PRIMA E COMPONENTES						DATA 08/06/2011
<b>CLIENTE :</b> COMASA <b>IDENT. DO EQUIP:</b> BGV-90.000 <b>ORDEM DE SERVIÇO :</b> 4570 2009								
COMPONENTE	PARTE	Nº DESENHO	POS.	QTD.	MATERIAL	DIMENSÕES	C.R.	Nº CERTIFICADO
FORNALHA	TUBO	023.216A.046-R0	3	8	ASTM A-106 B	8" SCH40 250	2134/08	50344874
FORNALHA	TUBO	023.216A.046-R0	3	8	ASTM A-106 B	8" SCH40 250	1195/08	50340456
FORNALHA	CHAPA	023.224A.030-R0	5	1	ASTM A-516 º70	5/8" X 0,130m²	1130/09	259194
FORNALHA	CHAPA	023.233A.030-R0	5	1	ASTM A-516 º70	5/8" X 0,130m²	1130/09	259194
FORNALHA	CHAPA	023.222A.030-R0	5	1	ASTM A-516 º70	5/8" X 0,130m²	1130/09	259194
FORNALHA	CHAPA	023.221A.030-R0	5	1	ASTM A-516 º70	5/8" X 0,130m²	1130/09	259194
FORNALHA	CHAPA	023.078A.030-R2	4	1	ASTM A-516 º70	3/4" X 0,150m²	1483/08	248917
FORNALHA	CHAPA	023.078A.030-R2	5	1	ASTM A-516 º70	3/4" X 0,340m²	1483/08	248917
FORNALHA	CHAPA	023.124B.030-R1	9	1	ASTM A-516 º70	1/4" X 0,090m²	1001/10	1791709
FORNALHA	CHAPA	023.124A.030-R1	9	1	ASTM A-516 º70	1/4" X 0,090m²	1001/10	1791709
FORNALHA	CHAPA	023.120A.030-R1	9	1	ASTM A-516 º70	1/4" X 0,180m²	1001/10	1791709
FORNALHA	CHAPA	023.119A.030-R1	9	1	ASTM A-516 º70	1/4" X 0,180m²	1001/10	1791709
FORNALHA	CHAPA	023.105A.030-R1	6	1	ASTM A-516 º70	1/4" X 0,070m²	1001/10	1791709
FORNALHA	CHAPA	023.103A.030-R1	6	1	ASTM A-516 º70	1/4" X 0,070m²	1001/10	1791709
FORNALHA	TUBO	DA4570.046.014-R0	18	5	ASTM A - 178	2.1/2" #4,50mm x 10326	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.014-R0	17	5	ASTM A - 178	2.1/2" #4,50mm x 9531	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.014-R0	16	5	ASTM A - 178	2.1/2" #4,50mm x 9674	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.014-R0	15	5	ASTM A - 178	2.1/2" #4,50mm x 9818	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.001-R0	14	5	ASTM A - 178	2.1/2" #4,50mm x 9961	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.001-R0	13	6	ASTM A - 178	2.1/2" #4,50mm x 10812	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.001-R0	12	6	ASTM A - 178	2.1/2" #4,50mm x 10726	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.001-R0	11	6	ASTM A - 178	2.1/2" #4,50mm x 10640	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.001-R0	10	2	ASTM A - 178	2.1/2" #4,50mm x 6382	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.001-R0	9	5	ASTM A - 178	2.1/2" #4,50mm x 11042	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.001-R0	8	6	ASTM A - 178	2.1/2" #4,50mm x 11976	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.001-R0	7	2	ASTM A - 178	2.1/2" #4,50mm x 11974	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.001-R0	6	2	ASTM A - 178	2.1/2" #4,50mm x 12000	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.001-R0	5	18	ASTM A - 178	2.1/2" #4,50mm x 12000	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.001-R0	4	12	ASTM A - 178	2.1/2" #4,50mm x 11360	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.001-R0	3	5	ASTM A - 178	2.1/2" #4,50mm x 11910	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.001-R0	2	20	ASTM A - 178	2.1/2" #4,50mm x 12000	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.001-R0	1	6	ASTM A - 178	2.1/2" #4,50mm x 12000	1083/10	15399/0072562
FORNALHA	TUBO	023.030A.046-R0	15	2	ASTM A - 178	2" #3,75mm x 3701	388/08	19462
FORNALHA	TUBO	023.030A.046-R0	3	44	ASTM A - 178	2" #3,75mm x 708	388/08	19462
FORNALHA	TUBO	023.030A.046-R0	3	44	ASTM A - 178	2" #3,75mm x 9200	388/08	19462
FORNALHA	TUBO	DA4570.046.028-R0	314	1	ASTM A - 178	2.1/2" #4,50mm x 888	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	313	1	ASTM A - 178	2.1/2" #4,50mm x 902	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	312	1	ASTM A - 178	2.1/2" #4,50mm x 917	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	311	1	ASTM A - 178	2.1/2" #4,50mm x 931	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	304	1	ASTM A - 178	2.1/2" #4,50mm x 702	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	303	1	ASTM A - 178	2.1/2" #4,50mm x 716	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	302	1	ASTM A - 178	2.1/2" #4,50mm x 730	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	301	1	ASTM A - 178	2.1/2" #4,50mm x 745	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	295	1	ASTM A - 178	2.1/2" #4,50mm x 874	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	294	1	ASTM A - 178	2.1/2" #4,50mm x 889	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	293	1	ASTM A - 178	2.1/2" #4,50mm x 903	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	292	1	ASTM A - 178	2.1/2" #4,50mm x 917	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	291	1	ASTM A - 178	2.1/2" #4,50mm x 932	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	287	1	ASTM A - 178	2.1/2" #4,50mm x 865	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	286	1	ASTM A - 178	2.1/2" #4,50mm x 880	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	285	1	ASTM A - 178	2.1/2" #4,50mm x 688	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	284	1	ASTM A - 178	2.1/2" #4,50mm x 702	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	283	1	ASTM A - 178	2.1/2" #4,50mm x 717	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	282	1	ASTM A - 178	2.1/2" #4,50mm x 731	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.028-R0	281	1	ASTM A - 178	2.1/2" #4,50mm x 745	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.023-R0	27	1	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.023-R0	26	2	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.023-R0	25	2	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.023-R0	24	4	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562
FORNALHA	TUBO	DA4570.046.023-R0	23	1	ASTM A - 178	2.1/2" #4,50mm x 2916	1083/10	15399/0072562
FORNALHA	TUBO	023.059A.046-R0	3	2	ASTM A - 178	2.1/2" #4,50mm x 1538	1083/10	15399/0072562
FORNALHA	TUBO	023.059A.046-R0	2	2	ASTM A - 178	2.1/2" #4,50mm x 1380	1083/10	15399/0072562
FORNALHA	TUBO	023.059A.046-R0	1	2	ASTM A - 178	2.1/2" #4,50mm x 1317	1083/10	15399/0072562
FORNALHA	TUBO	023.057A.046-R0	1	6	ASTM A - 178	2.1/2" #4,50mm x 1316	1083/10	15399/0072562
FORNALHA	TUBO	023.058A.046-R0	7	2	ASTM A - 178	2.1/2" #4,50mm x 1807	1083/10	15399/0072562
FORNALHA	TUBO	023.058A.046-R0	6	2	ASTM A - 178	2.1/2" #4,50mm x 1972	1083/10	15399/0072562
FORNALHA	TUBO	023.058A.046-R0	5	2	ASTM A - 178	2.1/2" #4,50mm x 1784	1083/10	15399/0072562
FORNALHA	TUBO	023.058A.046-R0	4	2	ASTM A - 178	2.1/2" #4,50mm x 2133	1083/10	15399/0072562


		PLANILHA GERAL DE IDENTIFICAÇÃO DE MATÉRIA PRIMA E COMPONENTES						DATA 08/06/2011	
<b>CLIENTE :</b> <b>IDENT. DO EQUIP:</b> <b>ORDEM DE SERVIÇO :</b>		<b>COMASA</b> <b>BGV-90.000</b> <b>4570 2009</b>							
COMPONENTE	PARTE	Nº DESENHO	POS.	QTD.	MATERIAL	DIMENSÕES	C.R.	Nº CERTIFICADO	
FORNALHA	TUBO	023.058A.046-R0	3	2	ASTM A - 178	2.1/2" #4,50mm x 1780	1083/10	15399/0072562	
FORNALHA	TUBO	023.058A.046-R0	2	2	ASTM A - 178	2.1/2" #4,50mm x 1719	1083/10	15399/0072562	
FORNALHA	TUBO	023.058A.046-R0	1	2	ASTM A - 178	2.1/2" #4,50mm x 1707	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.041-R0	48	2	ASTM A - 178	2.1/2" #4,50mm x 2779	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.041-R0	47	2	ASTM A - 178	2.1/2" #4,50mm x 2156	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.041-R0	46	2	ASTM A - 178	2.1/2" #4,50mm x 2367	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.041-R0	45	2	ASTM A - 178	2.1/2" #4,50mm x 2134	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.041-R0	44	2	ASTM A - 178	2.1/2" #4,50mm x 2550	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.041-R0	43	2	ASTM A - 178	2.1/2" #4,50mm x 2130	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.041-R0	42	2	ASTM A - 178	2.1/2" #4,50mm x 2068	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.041-R0	41	2	ASTM A - 178	2.1/2" #4,50mm x 2057	1083/10	15399/0072562	
FORNALHA	TUBO	023.051A.046-R0	1	16	ASTM A - 178	2.1/2" #4,50mm x 1031	1083/10	15399/0072562	
FORNALHA	TUBO	023.050A.046-R0	4	20	ASTM A - 178	2.1/2" #4,50mm x 1971	1083/10	15399/0072562	
FORNALHA	TUBO	023.050A.046-R0	3	20	ASTM A - 178	2.1/2" #4,50mm x 1710	1083/10	15399/0072562	
FORNALHA	TUBO	023.050A.046-R0	2	20	ASTM A - 178	2.1/2" #4,50mm x 1551	1083/10	15399/0072562	
FORNALHA	TUBO	023.050A.046-R0	1	20	ASTM A - 178	2.1/2" #4,50mm x 1485	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.107-R0	107	3	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562	
FORNALHA	TUBO	023.036A.046-R0	11	2	ASTM A - 178	2.1/2" #4,50mm x 8200	1080/10	15399/0027572	
FORNALHA	TUBO	023.036A.046-R0	7	4	ASTM A - 178	2.1/2" #4,50mm x 1172	1080/10	15399/0027572	
FORNALHA	TUBO	023.036A.046-R0	5	4	ASTM A - 178	2.1/2" #4,50mm x 1096	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.099-R0	104	15	ASTM A - 178	2.1/2" #4,50mm x 8669	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.099-R0	103	60	ASTM A - 178	2.1/2" #4,50mm x 8669	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.099-R0	102	12	ASTM A - 178	2.1/2" #4,50mm x 8669	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.099-R0	101	25	ASTM A - 178	2.1/2" #4,50mm x 12000	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.099-R0	100	48	ASTM A - 178	2.1/2" #4,50mm x 11360	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.099-R0	99	12	ASTM A - 178	2.1/2" #4,50mm x 12000	1083/10	15399/0072562	
FORNALHA	TUBO	023.037A.046-R0	3	1	ASTM A-106 B	6" SCH80 900	724/10	50421561	
FORNALHA	TUBO	023.037A.046-R0	1	1	ASTM A-106 B	8" SCH160 2975	226/08	5018724	
FORNALHA	TUBO	023.037A.046-R0	1	1	ASTM A-106 B	8" SCH160 2960	226/08	5018724	
FORNALHA	TUBO	023.037A.046-R0	1	1	ASTM A-106 B	8" SCH160 2975	535/08	50187524	
FORNALHA	TUBO	023.051C.046-R0	2	18	ASTM A - 178	2.1/2" #4,50mm x 650	331/08	77662	
FORNALHA	TUBO	023.051C.046-R0	1	18	ASTM A - 178	2.1/2" #4,50mm x 650	331/08	77662	
FORNALHA	TUBO	DA4570.046.115-R0	117	30	ASTM A - 178	2.1/2" #4,50mm x 3590	330/08	77660	
FORNALHA	TUBO	DA4570.046.115-R0	116	27	ASTM A - 178	2.1/2" #4,50mm x 3644	330/08	77660	
FORNALHA	TUBO	DA4570.046.115-R0	112	15	ASTM A - 178	2.1/2" #4,50mm x 12000	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.115-R0	111	60	ASTM A - 178	2.1/2" #4,50mm x 12000	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.115-R0	110	12	ASTM A - 178	2.1/2" #4,50mm x 12000	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.115-R0	117	1	ASTM A - 178	2.1/2" #4,50mm x 3590	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.115-R0	116	1	ASTM A - 178	2.1/2" #4,50mm x 3644	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.115-R0	115	1	ASTM A - 178	2.1/2" #4,50mm x 3745	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.127-R0	7	83	ASTM A - 178	2.1/2" #4,50mm x 255	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.127-R0	127	1	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.118-R0	118	4	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.115-R0	115	27	ASTM A - 178	2.1/2" #4,50mm x 3745	331/08	77662	
FORNALHA	TUBO	023.051B.046-R0	2	16	ASTM A - 178	2.1/2" #4,50mm x 650	331/08	77662	
FORNALHA	TUBO	023.051B.046-R0	1	16	ASTM A - 178	2.1/2" #4,50mm x 650	331/08	77662	
FORNALHA	TUBO	023.051D.046-R0	1	16	ASTM A - 178	2.1/2" #4,50mm x 895	330/08	77660	
FORNALHA	TUBO	023.034B.046-R0	1	82	ASTM A - 178	2.1/2" #4,50mm x 530	1081/10	15399/0027571	
FORNALHA	TUBO	SNF 553 2010	1	19	ASTM A - 178	2.1/2" #4,50mm x 1490	1083/10	15399/0072562	
FORNALHA	TUBO	SNF 553 2010	1	17	ASTM A - 178	2.1/2" #4,50mm x 1490	1083/10	15399/0072562	
FORNALHA	TUBO	023.050B.046-R0	3	4	ASTM A - 178	2.1/2" #4,50mm x 1576	1083/10	15399/0072562	
FORNALHA	TUBO	023.050B.046-R0	2	4	ASTM A - 178	2.1/2" #4,50mm x 1403	1083/10	15399/0072562	
FORNALHA	TUBO	023.050B.046-R0	1	4	ASTM A - 178	2.1/2" #4,50mm x 1328	1083/10	15399/0072562	
FORNALHA	TUBO	023.051A.046-R0	1	16	ASTM A - 178	2.1/2" #4,50mm x 1031	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.098-R0	98	8	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.087-R0	94	2	ASTM A - 178	2.1/2" #4,50mm x 10126	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.087-R0	93	48	ASTM A - 178	2.1/2" #4,50mm x 10126	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.087-R0	92	25	ASTM A - 178	2.1/2" #4,50mm x 10126	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.087-R0	91	12	ASTM A - 178	2.1/2" #4,50mm x 10126	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.087-R0	90	2	ASTM A - 178	2.1/2" #4,50mm x 12000	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.087-R0	89	48	ASTM A - 178	2.1/2" #4,50mm x 11360	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.087-R0	88	25	ASTM A - 178	2.1/2" #4,50mm x 12000	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.087-R0	87	12	ASTM A - 178	2.1/2" #4,50mm x 12000	1080/10	15399/0027572	
FORNALHA	TUBO	023.035A.046-R0	10	1	ASTM A-106 B	6" SCH160 4422	1047/10	50412964	
FORNALHA	TUBO	023.035A.046-R0	2	1	ASTM A-106 B	6" SCH80 900	724/10	50421561	
FORNALHA	TUBO	023.035A.046-R0	8	1	ASTM A-106 B	4" SCH80 900	1942/08	50341691	
FORNALHA	TUBO	023.035A.046-R0	6	1	ASTM A-106 B	8" SCH160 2362	225/08	50187524	
FORNALHA	TUBO	023.035A.046-R0	6	1	ASTM A-106 B	8" SCH160 2347	535/08	50187524	

		PLANILHA GERAL DE IDENTIFICAÇÃO DE MATÉRIA PRIMA E COMPONENTES						DATA 08/06/2011	
CLIENTE :		COMASA							
IDENT. DO EQUIP:		BGV-90.000							
ORDEM DE SERVIÇO :		4570 2009							
COMPONENTE	PARTE	N° DESENHO	POS.	QTD.	MATERIAL	DIMENSÕES	C.R.	Nº CERTIFICADO	
FORNALHA	TUBO	023.035A.046-R0	6	1	ASTM A-106 B	8" SCH160 1939	535/08	50187524	
FORNALHA	TUBO	023.035A.046-R0	6	1	ASTM A-106 B	8" SCH160 2260	225/08	50187524	
FORNALHA	TUBO	023.035A.046-R0	1	1	ASTM A-106 B	8" SCH160 2362	535/08	50187524	
FORNALHA	TUBO	023.035A.046-R0	1	1	ASTM A-106 B	8" SCH160 2347	535/08	50187524	
FORNALHA	TUBO	023.035A.046-R0	1	1	ASTM A-106 B	8" SCH160 1939	535/08	50187524	
FORNALHA	TUBO	023.035A.046-R0	1	1	ASTM A-106 B	8" SCH160 2260	535/08	50187524	
FORNALHA	TUBO	023.035A.046-R0	13	2	ASTM A-106 B	8" SCH160 3972	225/08	50187524	
FORNALHA	TUBO	023.035A.046-R0	11	2	ASTM A-106 B	6" SCH160 931	1047/10	50412964	
FORNALHA	TUBO	023.035A.046-R0	10	1	ASTM A-106 B	6" SCH160 4422	1047/10	50412964	
FORNALHA	TUBO	023.035A.046-R0	9	1	ASTM A-106 B	6" SCH160 1561	1047/10	50412964	
FORNALHA	TUBO	DA4570.046.071-R0	725	1	ASTM A - 178	2.1/2" #4.50mm x 874	331/08	77662	
FORNALHA	TUBO	DA4570.046.071-R0	724	1	ASTM A - 178	2.1/2" #4.50mm x 889	331/08	77662	
FORNALHA	TUBO	DA4570.046.071-R0	723	1	ASTM A - 178	2.1/2" #4.50mm x 903	331/08	77662	
FORNALHA	TUBO	DA4570.046.071-R0	722	1	ASTM A - 178	2.1/2" #4.50mm x 917	331/08	77662	
FORNALHA	TUBO	DA4570.046.071-R0	721	1	ASTM A - 178	2.1/2" #4.50mm x 932	331/08	77662	
FORNALHA	TUBO	DA4570.046.071-R0	717	1	ASTM A - 178	2.1/2" #4.50mm x 865	331/08	77662	
FORNALHA	TUBO	DA4570.046.071-R0	716	1	ASTM A - 178	2.1/2" #4.50mm x 880	331/08	77662	
FORNALHA	TUBO	DA4570.046.069-R0	715	1	ASTM A - 178	2.1/2" #4.50mm x 688	330/08	77660	
FORNALHA	TUBO	DA4570.046.069-R0	714	1	ASTM A - 178	2.1/2" #4.50mm x 702	330/08	77660	
FORNALHA	TUBO	DA4570.046.069-R0	713	1	ASTM A - 178	2.1/2" #4.50mm x 717	330/08	77660	
FORNALHA	TUBO	DA4570.046.069-R0	712	1	ASTM A - 178	2.1/2" #4.50mm x 731	330/08	77660	
FORNALHA	TUBO	DA4570.046.069-R0	711	1	ASTM A - 178	2.1/2" #4.50mm x 745	330/08	77660	
FORNALHA	TUBO	DA4570.046.069-R0	705	1	ASTM A - 178	2.1/2" #4.50mm x 874	330/08	77660	
FORNALHA	TUBO	DA4570.046.069-R0	704	1	ASTM A - 178	2.1/2" #4.50mm x 888	330/08	77660	
FORNALHA	TUBO	DA4570.046.069-R0	703	1	ASTM A - 178	2.1/2" #4.50mm x 902	330/08	77660	
FORNALHA	TUBO	DA4570.046.069-R0	702	1	ASTM A - 178	2.1/2" #4.50mm x 917	330/08	77660	
FORNALHA	TUBO	DA4570.046.069-R0	701	1	ASTM A - 178	2.1/2" #4.50mm x 931	330/08	77660	
FORNALHA	TUBO	DA4570.046.069-R0	694	1	ASTM A - 178	2.1/2" #4.50mm x 702	330/08	77660	
FORNALHA	TUBO	DA4570.046.069-R0	693	1	ASTM A - 178	2.1/2" #4.50mm x 716	330/08	77660	
FORNALHA	TUBO	DA4570.046.069-R0	692	1	ASTM A - 178	2.1/2" #4.50mm x 730	330/08	77660	
FORNALHA	TUBO	DA4570.046.069-R0	691	1	ASTM A - 178	2.1/2" #4.50mm x 745	330/08	77660	
FORNALHA	TUBO	023.032A.046-R0	24	1	ASTM A - 178	2" #3,75mm x 3551	743/08	21143	
FORNALHA	TUBO	023.032A.046-R0	3	44	ASTM A - 178	2" #3,75mm x 708	743/08	21143	
FORNALHA	TUBO	023.032A.046-R0	3	44	ASTM A - 178	2" #3,75mm x 9200	743/08	21143	
FORNALHA	TUBO	DA4570.046.073-R0	77	4	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.073-R0	76	2	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.073-R0	75	2	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.073-R0	74	1	ASTM A - 178	2.1/2" #4,50mm x 2917	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.073-R0	73	1	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562	
FORNALHA	TUBO	023.057A.046-R0	1	6	ASTM A - 178	2.1/2" #4,50mm x 1316	1083/10	15399/0072562	
FORNALHA	TUBO	023.058A.046-R0	7	2	ASTM A - 178	2.1/2" #4,50mm x 1807	1083/10	15399/0072562	
FORNALHA	TUBO	023.058A.046-R0	6	2	ASTM A - 178	2.1/2" #4,50mm x 1972	1083/10	15399/0072562	
FORNALHA	TUBO	023.058A.046-R0	5	2	ASTM A - 178	2.1/2" #4,50mm x 1784	1083/10	15399/0072562	
FORNALHA	TUBO	023.058A.046-R0	4	2	ASTM A - 178	2.1/2" #4,50mm x 2133	1083/10	15399/0072562	
FORNALHA	TUBO	023.058A.046-R0	3	2	ASTM A - 178	2.1/2" #4,50mm x 1780	1083/10	15399/0072562	
FORNALHA	TUBO	023.058A.046-R0	2	2	ASTM A - 178	2.1/2" #4,50mm x 1719	1083/10	15399/0072562	
FORNALHA	TUBO	023.058A.046-R0	1	2	ASTM A - 178	2.1/2" #4,50mm x 1707	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.062-R0	64	5	ASTM A - 178	2.1/2" #4,50mm x 9748	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.062-R0	63	5	ASTM A - 178	2.1/2" #4,50mm x 10813	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.049-R0	62	5	ASTM A - 178	2.1/2" #4,50mm x 5955	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.049-R0	61	6	ASTM A - 178	2.1/2" #4,50mm x 9074	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.049-R0	60	5	ASTM A - 178	2.1/2" #4,50mm x 11562	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.049-R0	59	6	ASTM A - 178	2.1/2" #4,50mm x 11057	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.049-R0	58	6	ASTM A - 178	2.1/2" #4,50mm x 11602	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.049-R0	57	6	ASTM A - 178	2.1/2" #4,50mm x 11938	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.049-R0	56	6	ASTM A - 178	2.1/2" #4,50mm x 11938	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.049-R0	55	6	ASTM A - 178	2.1/2" #4,50mm x 11969	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.049-R0	54	2	ASTM A - 178	2.1/2" #4,50mm x 11974	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.049-R0	53	2	ASTM A - 178	2.1/2" #4,50mm x 12000	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.049-R0	52	30	ASTM A - 178	2.1/2" #4,50mm x 12000	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.049-R0	51	5	ASTM A - 178	2.1/2" #4,50mm x 11909	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.049-R0	50	20	ASTM A - 178	2.1/2" #4,50mm x 12000	1080/10	15399/0027572	
FORNALHA	TUBO	DA4570.046.049-R0	49	6	ASTM A - 178	2.1/2" #4,50mm x 12000	1080/10	15399/0027572	
FORNALHA	BARRA REDONDA TREFILADA	023.226A.046-R0	2	197	VIDE CERTIF.	Ø 30 X 310	1582/10	399480	
FORNALHA	TUBO	023.070A.046-R1	1	1	ASTM A-106 B	14" SCH80 1200	1033/10	50404508	
FORNALHA	TUBO	023.070A.046-R1	4	1	ASTM A-106 B	1" SCH80 200	432/10	50249173	
FORNALHA	TUBO	023.070A.046-R1	7	1	ASTM A-106 B	10" SCH160 900	006/08	50304863	
FORNALHA	TUBO	023.070B.046-R1	1	1	ASTM A-106 B	14" SCH80 1200	611/08	50107741	

**CLIENTE :** COMASA  
**IDENT. DO EQUIP:** BGV-90.000  
**ORDEM DE SERVIÇO :** 4570 2009


COMPONENTE	PARTE	Nº DESENHO	POS.	QTD.	MATERIAL	DIMENSÕES	C.R.	Nº CERTIFICADO
FORNALHA	TUBO	023.070B.046-R1	3	1	ASTM A-106 B	1" SCH80 200	432/10	50249173
FORNALHA	TUBO	023.070B.046-R1	6	1	ASTM A-106 B	10" SCH160 900	006/08	50304863
FORNALHA	CHAPA	023.070B.046-R1	2	1	ASTM A-516 70	2" X 0,140m²	603/10	358118
FORNALHA	CHAPA	023.070A.046-R1	2	1	ASTM A-516 70	2" X 0,140m²	603/10	358118
FORNALHA	CHAPA	023.070B.046-R1	8	1	ASTM A-516 70	5/8" X 1,060m²	1130/09	259194
FORNALHA	CHAPA	023.070A.046-R1	8	1	ASTM A-516 70	5/8" X 0,670m²	1130/09	259194
FORNALHA	CHAPA	023.210A.046-R0	6	1	ASTM A-516 70	2.1/2" X 0,400m²	292/07	405370
FORNALHA	CHAPA	023.070A.046-R1	9	1	ASTM A-516 70	3/8" X 0,130m²	2059/08	813849
FORNALHA	CHAPA	023.070B.046-R1	9	1	ASTM A-516 70	3/8" X 0,210m²	2059/08	813849
FORNALHA	CHAPA	023.095A.046-R1	7	1	ASTM A-516 70	1/4" X 0,190m²	1003/10	1791709
FORNALHA	CHAPA	023.092A.046-R1	7	1	ASTM A-516 70	1/4" X 0,190m²	1003/10	1791709
FORNALHA	CHAPA	023.089A.046-R1	10	1	ASTM A-516 70	1/4" X 0,100m²	1003/10	1791709
FORNALHA	CHAPA	023.088A.046-R1	10	1	ASTM A-516 70	1/4" X 0,100m²	1003/10	1791709
FORNALHA	CHAPA	023.070B.046-R1	4	1	ASTM A-516 70	1" X 0,220m²	604/10	2196492
FORNALHA	CHAPA	023.070A.046-R1	3	1	ASTM A-516 70	1" X 0,220m²	604/10	2196492
FORNALHA	TUBO	023.070A.046-R0	1	1	ASTM A-106 B	14" SCH80 9661	1033/10	50404508
FORNALHA	TUBO	023.070A.046-R0	1	1	ASTM A-106 B	14" SCH80 11600	1033/10	50404508
FORNALHA	TUBO	023.070A.046-R0	7	1	ASTM A-106 B	10" SCH80 900	1061/10	50397987
FORNALHA	TUBO	023.070A.046-R0	5	1	ASTM A-106 B	8" SCH80 900	1031/10	50429772
FORNALHA	TUBO	023.070A.046-R0	4	1	ASTM A-106 B	1" SCH80 200	432/10	50249173
FORNALHA	TUBO	023.070B.046-R0	1	1	ASTM A-106 B	14" SCH80 9607	1033/10	50404508
FORNALHA	TUBO	023.070B.046-R0	1	1	ASTM A-106 B	14" SCH80 11600	1033/10	50404508
FORNALHA	TUBO	023.070B.046-R0	6	1	ASTM A-106 B	8" SCH80 900	1031/10	50429772
FORNALHA	TUBO	023.070B.046-R0	5	1	ASTM A-106 B	8" SCH80 900	1031/10	50429772
FORNALHA	TUBO	023.070B.046-R0	3	1	ASTM A-106 B	1" SCH80 200	432/10	50249173
FORNALHA	CHAPA	023.070B.046-R0	2	1	ASTM A-516 70	1.3/4" X 0,140m²	442/06	828236
FORNALHA	CHAPA	023.070A.046-R0	6	1	ASTM A-516 70	1.1/2" X 0,400m²	1311/09	232015
FORNALHA	CHAPA	023.070B.046-R0	3	1	ASTM A-516 70	1" X 0,260m²	567/09	2034196
FORNALHA	CHAPA	023.070A.046-R0	2	1	ASTM A-516 70	1.3/4" X 0,140m²	442/06	828236
FORNALHA	CHAPA	023.070A.046-R0	4	1	ASTM A-516 70	2.1/2" X 0,260m²	567/09	2034196
FORNALHA	CHAPA	023.210A.046-R0	2	1	ASTM A-516 70	2.1/2" X 0,060m²	292/07	405370
FORNALHA	CHAPA	023.210A.046-R0	1	1	ASTM A-516 70	2.1/2" X 0,070m²	292/07	405370
FORNALHA	TUBO	023.130A.046-R1	1	1	ASTM A-106 B	10" SCH160 9682	534/08	50328050
FORNALHA	TUBO	023.130A.046-R1	1	1	ASTM A-106 B	10" SCH160 9682	066/08	1698
FORNALHA	TUBO	023.119A.046-R0	1	4	ASTM A-106 B	8" SCH80 500	1031/10	50429772
FORNALHA	TUBO	023.093A.046-R1	1	2	ASTM A-106 B	8" SCH80 1030	856/08	50185780
FORNALHA	TUBO	023.092A.046-R1	1	2	ASTM A-106 B	8" SCH80 1030	856/08	50185780
FORNALHA	TUBO	023.169B.046-R0	3	1	ASTM A-106 B	4" SCH80 1376	715/10	50317300
FORNALHA	TUBO	023.169B.046-R0	1	1	ASTM A-106 B	4" SCH80 735	715/10	50317300
FORNALHA	CURVA 45º	023.169B.046-R0	2	1	ASTM A-234 WPE	4" SCH80	1909/08	22245201
FORNALHA	CURVA 90º	023.119A.046-R0	11	1	ASTM A-234 WPE	8" SCH80	1357/10	2010/10411
FORNALHA	CURVA 90º	023.119A.046-R0	6	4	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.119A.046-R0	4	1	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.169B.046-R0	4	2	ASTM A-234 WPE	4" SCH80	223/10	24055216
FORNALHA	TUBO	023.175B.046-R1	3	2	ASTM A-106 B	6" SCH80 9577	1543/10	50412422
FORNALHA	TUBO	023.175B.046-R1	3	2	ASTM A-106 B	6" SCH80 9577	307/09	50365745
FORNALHA	TUBO	023.175B.046-R1	1	4	ASTM A-106 B	6" SCH80 730	723/10	50421561
FORNALHA	CURVA 90º	023.124A.046-R0	2	1	ASTM A-234 WPE	8" SCH80	1357/10	2010/10411
FORNALHA	CURVA 90º	023.124A.046-R0	7	1	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.153A.046-R0	3	2	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.153A.046-R0	2	1	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.167B.046-R0	5	1	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.167B.046-R0	2	2	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.168A.046-R0	5	1	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.168A.046-R0	2	2	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.168B.046-R0	5	1	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.168B.046-R0	2	2	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.152B.046-R0	3	2	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.152B.046-R0	2	1	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.167A.046-R0	5	1	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.167A.046-R0	2	2	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.166B.046-R0	5	2	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.166B.046-R0	1	1	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.166A.046-R0	5	2	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.166A.046-R0	2	1	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.165B.046-R0	3	1	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.165B.046-R0	1	1	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.165A.046-R0	3	1	ASTM A-234 WPE	6" SCH80	1356/10	2010/10411




		PLANILHA GERAL DE IDENTIFICAÇÃO DE MATÉRIA PRIMA E COMPONENTES						DATA 08/06/2011	
CLIENTE :		COMASA							
IDENT. DO EQUIP:		BGV-90.000							
ORDEM DE SERVIÇO :		4570 2009							
COMPONENTE	PARTE	N° DESENHO	POS.	QTD.	MATERIAL	DIMENSÕES	C.R.	Nº CERTIFICADO	
FORNALHA	CURVA 90º	023.165A.046-R0	1	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411	
FORNALHA	CURVA 90º	023.154B.046-R0	3	2	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411	
FORNALHA	CURVA 90º	023.154B.046-R0	2	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411	
FORNALHA	CURVA 90º	023.153B.046-R0	3	2	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411	
FORNALHA	CURVA 90º	023.153B.046-R0	2	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411	
FORNALHA	CURVA 90º	023.154A.046-R0	3	2	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411	
FORNALHA	CURVA 90º	023.154A.046-R0	2	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411	
FORNALHA	CURVA 90º	023.130A.046-R0	8	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411	
FORNALHA	CURVA 90º	023.130A.046-R0	3	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411	
FORNALHA	CURVA 90º	023.124B.046-R0	2	1	ASTM A-234 WPB	8" SCH80	1357/10	2010/10411	
FORNALHA	CURVA 90º	023.124B.046-R0	6	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411	
FORNALHA	CURVA 90º	023.175B.046-R1	2	8	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411	
FORNALHA	REDUÇÃO CONCENTRICA	023.119A.046-R0	2	1	ASTM A-234 WPB	8" X 6" SCH80	191/07	19484601	
FORNALHA	REDUÇÃO CONCENTRICA	023.130A.046-R0	6	1	ASTM A-234 WPB	8" X 6" SCH80	375/06	17769501	
FORNALHA	REDUÇÃO CONCENTRICA	023.124B.046-R0	4	1	ASTM A-234 WPB	8" X 6" SCH80	191/07	19484601	
FORNALHA	REDUÇÃO CONCENTRICA	023.124A.046-R0	4	1	ASTM A-234 WPB	8" X 6" SCH80	375/06	17769501	
FORNALHA	CURVA 90º	023.089A.046-R0	2	1	ASTM A-234 WPB	8" SCH80	1357/10	2010/10411	
FORNALHA	CURVA 90º	023.089A.046-R0	6	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411	
FORNALHA	CURVA 45º	023.089A.046-R0	8	2	ASTM A-234 WPB	6" SCH80	1349/10	2010/10408	
FORNALHA	CURVA 45º	023.088A.046-R0	8	2	ASTM A-234 WPB	6" SCH80	1349/10	2010/10408	
FORNALHA	CURVA 90º	023.175A.046-R0	2	8	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411	
FORNALHA	CURVA 90º	023.088A.046-R0	2	1	ASTM A-234 WPB	8" SCH80	1357/10	2010/10411	
FORNALHA	CURVA 90º	023.088A.046-R0	6	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411	
FORNALHA	REDUÇÃO CONCENTRICA	023.088A.046-R0	4	1	ASTM A-234 WPB	8" X 6" SCH80	191/07	19484601	
FORNALHA	REDUÇÃO CONCENTRICA	023.089A.046-R0	4	1	ASTM A-234 WPB	8" X 6" SCH80	191/07	19484601	
FORNALHA	TUBO	023.184A.046-R0	1	10	ASTM A-106 B	4" SCH80 518	1614/08	50317300	
FORNALHA	TUBO	023.119A.046-R0	10	1	ASTM A-106 B	6" SCH80 900	181/10	50412422	
FORNALHA	TUBO	023.119A.046-R0	8	1	ASTM A-106 B	6" SCH80 900	181/10	50412422	
FORNALHA	TUBO	023.090A.046-R0	5	3	ASTM A-106 B	6" SCH80 1134	292/10	50421561	
FORNALHA	TUBO	023.171A.046-R0	1	1	ASTM A-106 B	4" SCH80 735	715/10	50317300	
FORNALHA	TUBO	023.170A.046-R0	3	1	ASTM A-106 B	4" SCH80 2906	715/10	50317300	
FORNALHA	TUBO	023.170A.046-R0	1	1	ASTM A-106 B	4" SCH80 735	715/10	50317300	
FORNALHA	TUBO	023.170B.046-R0	3	1	ASTM A-106 B	4" SCH80 2906	715/10	50317300	
FORNALHA	TUBO	023.170B.046-R0	1	1	ASTM A-106 B	4" SCH80 735	715/10	50317300	
FORNALHA	TUBO	023.169A.046-R0	3	1	ASTM A-106 B	4" SCH80 1376	715/10	50317300	
FORNALHA	TUBO	023.169A.046-R0	1	1	ASTM A-106 B	4" SCH80 735	715/10	50317300	
FORNALHA	CURVA 90º	023.185A.046-R0	2	10	ASTM A-234 WPB	4" SCH80	1355/10	2010/10411	
FORNALHA	TUBO	023.090A.046-R0	3	1	ASTM A-106 B	8" SCH80 4068	1031/10	50429772	
FORNALHA	TUBO	023.090A.046-R0	1	1	ASTM A-106 B	8" SCH80 4231	1031/10	50429772	
FORNALHA	TUBO	023.090A.046-R0	1	1	ASTM A-106 B	8" SCH80 2569	1031/10	50429772	
FORNALHA	TUBO	023.090A.046-R0	15	1	ASTM A-106 B	8" SCH80 4099	1068/10	50407608	
FORNALHA	TUBO	023.090A.046-R0	14	1	ASTM A-106 B	8" SCH80 1030	1068/10	50407608	
FORNALHA	TUBO	023.090A.046-R0	11	1	ASTM A-106 B	6" SCH80 900	724/10	50421561	
FORNALHA	TUBO	023.090A.046-R0	10	1	ASTM A-106 B	6" SCH80 900	724/10	50421561	
FORNALHA	TUBO	023.090A.046-R0	9	1	ASTM A-106 B	6" SCH80 900	724/10	50421561	
FORNALHA	TUBO	023.090A.046-R0	8	1	ASTM A-106 B	6" SCH80 900	724/10	50421561	
FORNALHA	TUBO	023.090A.046-R0	5	3	ASTM A-106 B	6" SCH80 1104	724/10	50421561	
FORNALHA	TUBO	023.091A.046-R0	3	1	ASTM A-106 B	8" SCH80 4068	1068/10	50407608	
FORNALHA	TUBO	023.091A.046-R0	1	1	ASTM A-106 B	8" SCH80 4231	1031/10	50429772	
FORNALHA	TUBO	023.091A.046-R0	1	1	ASTM A-106 B	8" SCH80 2569	1068/10	50407608	
FORNALHA	TUBO	023.091A.046-R0	15	1	ASTM A-106 B	8" SCH80 4099	1031/10	50429772	
FORNALHA	TUBO	023.091A.046-R0	13	1	ASTM A-106 B	8" SCH80 1030	1031/10	50429772	
FORNALHA	TUBO	023.091A.046-R0	12	1	ASTM A-106 B	6" SCH80 900	724/10	50421561	
FORNALHA	TUBO	023.091A.046-R0	10	1	ASTM A-106 B	6" SCH80 900	724/10	50421561	
FORNALHA	TUBO	023.091A.046-R0	9	1	ASTM A-106 B	6" SCH80 1134	724/10	50421561	
FORNALHA	TUBO	023.091A.046-R0	6	1	ASTM A-106 B	6" SCH80 900	724/10	50421561	
FORNALHA	TUBO	023.091A.046-R0	5	1	ASTM A-106 B	6" SCH80 900	724/10	50421561	
FORNALHA	TUBO	023.185A.046-R0	1	10	ASTM A-106 B	4" SCH80 900	1538/08	50319498	
FORNALHA	TUBO	023.167B.046-R0	4	1	ASTM A-106 B	6" SCH80 1399	723/10	50421561	
FORNALHA	TUBO	023.167B.046-R0	3	1	ASTM A-106 B	6" SCH80 1465	724/10	50421561	
FORNALHA	TUBO	023.167B.046-R0	1	1	ASTM A-106 B	6" SCH80 1093	723/10	50421561	
FORNALHA	TUBO	023.168A.046-R0	4	1	ASTM A-106 B	6" SCH80 2220	724/10	50421561	
FORNALHA	TUBO	023.168A.046-R0	3	1	ASTM A-106 B	6" SCH80 2185	724/10	50421561	
FORNALHA	TUBO	023.168A.046-R0	1	1	ASTM A-106 B	6" SCH80 1093	724/10	50421561	
FORNALHA	TUBO	023.168B.046-R0	4	1	ASTM A-106 B	6" SCH80 2220	724/10	50421561	
FORNALHA	TUBO	023.168B.046-R0	3	1	ASTM A-106 B	6" SCH80 2185	724/10	50421561	
FORNALHA	TUBO	023.168B.046-R0	1	1	ASTM A-106 B	6" SCH80 1093	724/10	50421561	
FORNALHA	TUBO	023.124A.046-R0	3	1	ASTM A-106 B	8" SCH80 7040	029/04	50126432	


**CLIENTE :** COMASA  
**IDENT. DO EQUIP:** BGV-90.000  
**ORDEM DE SERVIÇO :** 4570 2009


COMPONENTE	PARTE	N° DESENHO	POS.	QTD.	MATERIAL	DIMENSÕES	C.R.	Nº CERTIFICADO
FORNALHA	TUBO	023.124A.046-R0	1	1	ASTM A-106 B	8" SCH80 1665	029/04	50126432
FORNALHA	TUBO	023.124A.046-R0	6	1	ASTM A-106 B	6" SCH80 900	724/10	50421561
FORNALHA	TUBO	023.124A.046-R0	5	1	ASTM A-106 B	6" SCH80 1628	724/10	50421561
FORNALHA	TUBO	023.093A.046-R0	5	1	ASTM A-106 B	8" SCH80 1725	029/04	50126432
FORNALHA	TUBO	023.093A.046-R0	3	1	ASTM A-106 B	8" SCH80 230	029/04	50126432
FORNALHA	TUBO	023.093A.046-R0	1	2	ASTM A-106 B	8" SCH80 1000	357/08	WXTG-071292
FORNALHA	TUBO	023.093A.046-R0	1	2	ASTM A-106 B	8" SCH80 1000	029/04	50126432
FORNALHA	TUBO	023.092A.046-R0	5	1	ASTM A-106 B	8" SCH80 1725	1031/10	50429772
FORNALHA	TUBO	023.092A.046-R0	4	1	ASTM A-106 B	8" SCH80 230	1031/10	50429772
FORNALHA	TUBO	023.092A.046-R0	1	2	ASTM A-106 B	8" SCH80 1000	357/08	WXTG-071292
FORNALHA	CHAPA	023.091A.046-R0	4	1	ASTM A-516 °70	1.1/4" X 0,070m²	740/09	286650
FORNALHA	CHAPA	023.119A.046-R0	4	1	ASTM A-516 °70	1.1/4" X 0,070m²	740/09	286650
FORNALHA	CHAPA	023.119A.046-R0	14	1	ASTM A-516 °70	1.1/4" X 0,040m²	740/09	286650
FORNALHA	CHAPA	023.120A.046-R0	11	1	ASTM A-516 °70	1.1/4" X 0,040m²	740/09	286650
FORNALHA	CHAPA	023.091A.046-R0	12	1	ASTM A-516 °70	1/4" X 0,630m²	1001/10	1791709
FORNALHA	CHAPA	023.090A.046-R0	12	1	ASTM A-516 °70	1/4" X 0,630m²	1001/10	1791709
FORNALHA	CHAPA	023.119A.046-R0	9	1	ASTM A-516 °70	1/4" X 0,270m²	1001/10	1791709
FORNALHA	CHAPA	023.120A.046-R0	9	1	ASTM A-516 °70	1/4" X 0,270m²	1001/10	1791709
FORNALHA	CHAPA	023.031A.046-R0	8	1	ASTM A-516 °70	1/4" X 0,090m²	1001/10	1791709
FORNALHA	CHAPA	023.090A.046-R0	8	1	ASTM A-516 °70	1/4" X 0,090m²	1001/10	1791709
FORNALHA	CHAPA	023.035A.046-R0	6	1	ASTM A-516 °70	1.1/4" X 0,070m²	740/09	286650
FORNALHA	CHAPA	023.035A.046-R0	6	1	ASTM A-516 °70	1.1/4" X 0,070m²	740/09	286650
FORNALHA	TUBO	023.152A.046-R0	5	1	ASTM A-106 B	6" SCH80 825	723/10	50421561
FORNALHA	TUBO	023.152A.046-R0	4	1	ASTM A-106 B	6" SCH80 583	723/10	50421561
FORNALHA	TUBO	023.152A.046-R0	1	1	ASTM A-106 B	6" SCH80 1068	723/10	50421561
FORNALHA	TUBO	023.151B.046-R0	1	1	ASTM A-106 B	6" SCH80 1068	723/10	50421561
FORNALHA	TUBO	023.151A.046-R0	1	1	ASTM A-106 B	6" SCH80 1068	723/10	50421561
FORNALHA	TUBO	023.152B.046-R0	5	1	ASTM A-106 B	6" SCH80 825	723/10	50421561
FORNALHA	TUBO	023.152B.046-R0	4	1	ASTM A-106 B	6" SCH80 583	723/10	50421561
FORNALHA	TUBO	023.152B.046-R0	1	1	ASTM A-106 B	6" SCH80 1068	723/10	50421561
FORNALHA	TUBO	023.153A.046-R0	5	1	ASTM A-106 B	6" SCH80 1625	723/10	50421561
FORNALHA	TUBO	023.153A.046-R0	4	1	ASTM A-106 B	6" SCH80 1908	723/10	50421561
FORNALHA	TUBO	023.153A.046-R0	1	1	ASTM A-106 B	6" SCH80 1068	723/10	50421561
FORNALHA	TUBO	023.153B.046-R0	5	1	ASTM A-106 B	6" SCH80 1625	723/10	50421561
FORNALHA	TUBO	023.153B.046-R0	4	1	ASTM A-106 B	6" SCH80 1908	723/10	50421561
FORNALHA	TUBO	023.153B.046-R0	1	1	ASTM A-106 B	6" SCH80 1068	723/10	50421561
FORNALHA	TUBO	023.124B.046-R0	3	1	ASTM A-106 B	8" SCH80 7040	1031/10	50429772
FORNALHA	TUBO	023.124B.046-R0	1	1	ASTM A-106 B	8" SCH80 1665	1031/10	50429772
FORNALHA	TUBO	023.124B.046-R0	7	1	ASTM A-106 B	6" SCH80 900	724/10	50421561
FORNALHA	TUBO	023.124B.046-R0	5	1	ASTM A-106 B	6" SCH80 1678	724/10	50421561
FORNALHA	TUBO	023.166A.046-R0	4	1	ASTM A-106 B	6" SCH80 1093	723/10	50421561
FORNALHA	TUBO	023.166A.046-R0	3	1	ASTM A-106 B	6" SCH80 583	723/10	50421561
FORNALHA	TUBO	023.166A.046-R0	1	1	ASTM A-106 B	6" SCH80 745	723/10	50421561
FORNALHA	TUBO	023.165A.046-R0	2	1	ASTM A-106 B	6" SCH80 1093	723/10	50421561
FORNALHA	TUBO	023.165B.046-R0	2	1	ASTM A-106 B	6" SCH80 1093	723/10	50421561
FORNALHA	TUBO	023.154A.046-R0	5	1	ASTM A-106 B	6" SCH80 2425	723/10	50421561
FORNALHA	TUBO	023.154A.046-R0	4	1	ASTM A-106 B	6" SCH80 3132	723/10	50421561
FORNALHA	TUBO	023.154A.046-R0	1	1	ASTM A-106 B	6" SCH80 1068	723/10	50421561
FORNALHA	TUBO	023.154B.046-R0	5	1	ASTM A-106 B	6" SCH80 2425	723/10	50421561
FORNALHA	TUBO	023.154B.046-R0	4	1	ASTM A-106 B	6" SCH80 3132	723/10	50421561
FORNALHA	TUBO	023.154B.046-R0	1	1	ASTM A-106 B	6" SCH80 1068	723/10	50421561
FORNALHA	TUBO	023.129A.046-R0	1	6	ASTM A-106 B	3" SCH80 4101	1055/10	50431053
FORNALHA	TUBO	023.119A.046-R0	1	1	ASTM A-106 B	8" SCH80 2102	1219/10	50440039
FORNALHA	TUBO	023.119A.046-R0	1	1	ASTM A-106 B	8" SCH80 1156	1219/10	50440039
FORNALHA	TUBO	023.119A.046-R0	15	1	ASTM A-106 B	8" SCH80 2127	1031/10	50429772
FORNALHA	TUBO	023.119A.046-R0	12	1	ASTM A-106 B	8" SCH80 515	1031/10	50429772
FORNALHA	TUBO	023.119A.046-R0	10	1	ASTM A-106 B	6" SCH80 463	723/10	50421561
FORNALHA	TUBO	023.119A.046-R0	8	1	ASTM A-106 B	6" SCH80 674	723/10	50421561
FORNALHA	TUBO	023.119A.046-R0	7	1	ASTM A-106 B	6" SCH80 900	723/10	50421561
FORNALHA	TUBO	023.119A.046-R0	5	1	ASTM A-106 B	6" SCH80 130	723/10	50421561
FORNALHA	TUBO	023.119A.046-R0	3	1	ASTM A-106 B	6" SCH80 830	723/10	50421561
FORNALHA	TUBO	023.120A.046-R0	1	1	ASTM A-106 B	8" SCH80 2102	1068/10	50407608
FORNALHA	TUBO	023.120A.046-R0	1	1	ASTM A-106 B	8" SCH80 1156	1068/10	50407608
FORNALHA	TUBO	023.120A.046-R0	15	1	ASTM A-106 B	8" SCH80 2027	1068/10	50407608
FORNALHA	TUBO	023.120A.046-R0	13	1	ASTM A-106 B	8" SCH80 515	1068/10	50407608
FORNALHA	TUBO	023.120A.046-R0	10	1	ASTM A-106 B	6" SCH80 463	723/10	50421561
FORNALHA	TUBO	023.120A.046-R0	8	1	ASTM A-106 B	6" SCH80 674	723/10	50421561
FORNALHA	TUBO	023.120A.046-R0	7	1	ASTM A-106 B	6" SCH80 900	723/10	50421561


		PLANILHA GERAL DE IDENTIFICAÇÃO DE MATÉRIA PRIMA E COMPONENTES						DATA 08/06/2011
<b>CLIENTE :</b> <b>IDENT. DO EQUIP:</b> <b>ORDEM DE SERVIÇO :</b>		<b>COMASA</b> <b>BGV-90.000</b> <b>4570 2009</b>						
COMPONENTE	PARTE	Nº DESENHO	POS.	QTD.	MATERIAL	DIMENSÕES	C.R.	Nº CERTIFICADO
FORNALHA	TUBO	023.120A.046-R0	5	1	ASTM A-106 B	6" SCH80 130	723/10	50421561
FORNALHA	TUBO	023.120A.046-R0	3	1	ASTM A-106 B	6" SCH80 830	723/10	50421561
FORNALHA	TUBO	023.166B.046-R0	3	1	ASTM A-106 B	6" SCH80 583	723/10	50421561
FORNALHA	TUBO	023.166B.046-R0	4	1	ASTM A-106 B	6" SCH80 1093	723/10	50421561
FORNALHA	TUBO	023.166B.046-R0	1	1	ASTM A-106 B	6" SCH80 745	723/10	50421561
FORNALHA	TUBO	023.167A.046-R0	4	1	ASTM A-106 B	6" SCH80 1399	723/10	50421561
FORNALHA	TUBO	023.167A.046-R0	3	1	ASTM A-106 B	6" SCH80 1465	723/10	50421561
FORNALHA	TUBO	023.167A.046-R0	1	1	ASTM A-106 B	6" SCH80 1093	723/10	50421561
FORNALHA	TUBO	023.130A.046-R0	1	1	ASTM A-106 B	10" SCH80 9682	434/10	50305980
FORNALHA	TUBO	023.130A.046-R0	5	1	ASTM A-106 B	8" SCH80 2980	1219/10	50440039
FORNALHA	TUBO	023.130A.046-R0	4	1	ASTM A-106 B	6" SCH80 219	723/10	50421561
FORNALHA	TUBO	023.130A.046-R0	2	1	ASTM A-106 B	6" SCH80 3380	723/10	50421561
FORNALHA	TUBO	023.130A.046-R0	11	1	ASTM A-106 B	6" SCH80 900	724/10	50421561
FORNALHA	TUBO	023.130A.046-R0	10	4	ASTM A-106 B	6" SCH80 663	724/10	50421561
FORNALHA	TUBO	023.130A.046-R0	9	1	ASTM A-106 B	6" SCH80 900	723/10	50421561
FORNALHA	TUBO	023.130A.046-R0	7	1	ASTM A-106 B	6" SCH80 780	723/10	50421561
FORNALHA	TUBO	023.094A.046-R1	14	1	ASTM A-106 B	8" SCH80 230	1031/10	50429772
FORNALHA	TUBO	023.094A.046-R1	13	1	ASTM A-106 B	8" SCH80 390	1068/10	50407608
FORNALHA	TUBO	023.094A.046-R1	12	1	ASTM A-106 B	8" SCH80 3501	1031/10	50429772
FORNALHA	TUBO	023.094A.046-R1	10	1	ASTM A-106 B	8" SCH80 230	1031/10	50429772
FORNALHA	TUBO	023.094A.046-R1	9	1	ASTM A-106 B	8" SCH80 921	1031/10	50429772
FORNALHA	TUBO	023.094A.046-R1	8	1	ASTM A-106 B	8" SCH80 330	1031/10	50429772
FORNALHA	TUBO	023.094A.046-R1	7	1	ASTM A-106 B	8" SCH80 10096	1031/10	50429772
FORNALHA	TUBO	023.094A.046-R1	6	1	ASTM A-106 B	8" SCH80 2699	1031/10	50429772
FORNALHA	TUBO	023.094A.046-R1	5	1	ASTM A-106 B	8" SCH80 2395	1068/10	50407608
FORNALHA	TUBO	023.094A.046-R1	4	1	ASTM A-106 B	8" SCH80 2630	1068/10	50407608
FORNALHA	TUBO	023.094A.046-R1	2	1	ASTM A-106 B	8" SCH80 230	1031/10	50429772
FORNALHA	CURVA 90º	023.097A.046-R1	1	4	ASTM A-234 WPB	10" SCH80	1232/10	24558304
FORNALHA	CURVA 90º	023.184A.046-R0	2	10	ASTM A-234 WPB	4" SCH80	1355/10	2010/10411
FORNALHA	CURVA 90º	023.170B.046-R0	4	2	ASTM A-234 WPB	4" SCH80	1355/10	2010/10411
FORNALHA	CURVA 90º	023.170A.046-R0	4	2	ASTM A-234 WPB	4" SCH80	1355/10	2010/10411
FORNALHA	CURVA 90º	023.169A.046-R0	4	2	ASTM A-234 WPB	4" SCH80	1355/10	2010/10411
FORNALHA	CURVA 90º	023.151B.046-R0	3	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.151B.046-R0	2	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 45º	023.171A.046-R0	2	1	ASTM A-234 WPB	4" SCH80	1123/10	2010/8130
FORNALHA	CURVA 45º	023.170B.046-R0	2	1	ASTM A-234 WPB	4" SCH80	1123/10	2010/8130
FORNALHA	CURVA 45º	023.170A.046-R0	2	1	ASTM A-234 WPB	4" SCH80	1123/10	2010/8130
FORNALHA	CURVA 45º	023.169A.046-R0	2	1	ASTM A-234 WPB	4" SCH80	1123/10	2010/8130
FORNALHA	TUBO	023.088A.046-R0	3	1	ASTM A-106 B	8" SCH80 1665	357/08	WXTG-071292
FORNALHA	TUBO	023.088A.046-R0	1	1	ASTM A-106 B	8" SCH80 6782	1219/10	50440039
FORNALHA	TUBO	023.088A.046-R0	9	1	ASTM A-106 B	6" SCH80 900	724/10	50421561
FORNALHA	TUBO	023.088A.046-R0	7	1	ASTM A-106 B	6" SCH80 130	724/10	50421561
FORNALHA	TUBO	023.088A.046-R0	5	1	ASTM A-106 B	6" SCH80 1678	724/10	50421561
FORNALHA	TUBO	023.097A.046-R1	4	1	ASTM A-335 P11	10" SCH80 1270	1053/10	50352872
FORNALHA	TUBO	023.097A.046-R1	2	1	ASTM A-335 P11	10" SCH80 3105	1053/10	50352872
FORNALHA	CURVA 90º	023.152A.046-R0	3	2	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.152B.046-R0	2	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.151A.046-R0	3	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.151A.046-R0	2	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.092A.046-R0	3	1	ASTM A-234 WPB	8" SCH80	1357/10	2010/10411
FORNALHA	CURVA 90º	023.093A.046-R0	4	1	ASTM A-234 WPB	8" SCH80	1357/10	2010/10411
FORNALHA	CURVA 90º	023.090A.046-R0	2	2	ASTM A-234 WPB	8" SCH80	1357/10	2010/10411
FORNALHA	CURVA 90º	023.090A.046-R0	7	3	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.090A.046-R0	6	4	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411
FORNALHA	TEE	023.092A.046-R0	2	1	ASTM A-234 WPB	8" SCH80	2074/10	25016301
FORNALHA	TEE	023.093A.046-R0	2	1	ASTM A-234 WPB	8" SCH80	2074/10	25016301
FORNALHA	TEE	023.090A.046-R0	13	1	ASTM A-234 WPB	8" SCH80	2074/10	25016301
FORNALHA	TEE	023.119A.046-R0	13	1	ASTM A-234 WPB	8" SCH80	2074/10	25016301
FORNALHA	CURVA 45º	023.094A.046-R1	3	2	ASTM A-234 WPB	8" SCH80	1350/10	2010/10408
FORNALHA	CURVA 90º	023.094A.046-R1	1	8	ASTM A-234 WPB	8" SCH80	1357/10	2010/10411
FORNALHA	CURVA 90º	023.120A.046-R0	14	1	ASTM A-234 WPB	8" SCH80	1357/10	2010/10411
FORNALHA	CURVA 90º	023.120A.046-R0	6	4	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411
FORNALHA	CURVA 90º	023.120A.046-R0	4	1	ASTM A-234 WPB	6" SCH80	1356/10	2010/10411
FORNALHA	REDUÇÃO CONCENTRICA	023.120A.046-R0	2	1	ASTM A-234 WPB	8" X 6" SCH80	476/05	2005/4687
FORNALHA	TEE	023.120A.046-R0	12	1	ASTM A-234 WPB	8" SCH80	2074/10	25016301
FORNALHA	TEE	023.094A.046-R1	11	1	ASTM A-234 WPB	8" SCH80	2074/10	25016301
FORNALHA	TUBO	023.175A.046-R0	3	2	ASTM A-106 B	6" SCH80 9577	724/10	50421561
FORNALHA	TUBO	023.175A.046-R0	3	2	ASTM A-106 B	6" SCH80 9577	723/10	50421561


		PLANILHA GERAL DE IDENTIFICAÇÃO DE MATÉRIA PRIMA E COMPONENTES						DATA 08/06/2011	
CLIENTE :		COMASA							
IDENT. DO EQUIP:		BGV-90.000							
ORDEM DE SERVIÇO :		4570 2009							
COMPONENTE	PARTE	N° DESENHO	POS.	QTD.	MATERIAL	DIMENSÕES	C.R.	Nº CERTIFICADO	
FORNALHA	TUBO	023.175A.046-R0	1	4	ASTM A-106 B	6" SCH80 1030	723/10	50421561	
FORNALHA	TUBO	023.094A.046-R2	13	1	ASTM A-106 B	8" SCH80 200	1031/10	50429772	
FORNALHA	TUBO	023.094A.046-R2	6	1	ASTM A-106 B	8" SCH80 2730	1031/10	50429772	
FORNALHA	TUBO	023.094A.046-R2	2	1	ASTM A-106 B	8" SCH80 363	1031/10	50429772	
FORNALHA	TUBO	023.094A.046-R2	15	1	ASTM A-106 B	3/4" SCH80 400	1049/10	50433637	
FORNALHA	CHAPA	023.093A.046-R0	6	1	ASTM A-516 70	1.1/4" X 0,160m²	1556/10	227944	
FORNALHA	TUBO	023.040A.046-R0	122	43	ASTM A - 178	2" #3,75mm x 9200	732/08	21081	
FORNALHA	TUBO	023.040A.046-R0	1	43	ASTM A - 178	2" #3,75mm x 1721	675/08	20725	
FORNALHA	TUBO	023.040B.046-R0	126	43	ASTM A - 178	2" #3,75mm x 9200	675/08	20725	
FORNALHA	TUBO	023.040B.046-R0	1	43	ASTM A - 178	2" #3,75mm x 1882	675/08	20725	
FORNALHA	TUBO	023.040C.046-R0	1	43	ASTM A - 178	2" #3,75mm x 4031	675/08	20725	
FORNALHA	TUBO	023.060A.046-R0	15	1	ASTM A - 178	2.1/2" #4,50mm x 1419	1083/10	15399/0072562	
FORNALHA	TUBO	023.060A.046-R0	4	1	ASTM A - 178	2.1/2" #4,50mm x 1730	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.137-R0	23	1	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.137-R0	138	1	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562	
FORNALHA	TUBO	DA4570.046.137-R0	137	1	ASTM A - 178	2.1/2" #4,50mm x 700	1083/10	15399/0072562	
FORNALHA	CHAPA	023.033A.046-R0	15	1	ASTM A-516 70	1.1/4" X 0,230m²	740/09	286650	
FORNALHA	CHAPA	023.031A.046-R0	12	1	ASTM A-516 70	1.1/4" X 0,030m²	740/09	286650	
FORNALHA	CHAPA	023.033A.046-R0	2	1	ASTM A-516 70	1.1/2" X 0,100m²	1311/09	232015	
FORNALHA	CHAPA	023.031A.046-R0	2	1	ASTM A-516 70	1.1/2" X 0,100m²	1311/09	232015	
FORNALHA	TUBO	023.061A.046-R0	11	1	ASTM A-106 B	6" SCH160 2087	1047/10	50412964	
FORNALHA	CAPS	023.061A.046-R0	4	2	ASTM A-234 WPB	3" SCH160	1231/10	24558303	
FORNALHA	TUBO	023.061A.046-R0	5	1	ASTM A-106 B	6" SCH80 900	181/10	50412422	
FORNALHA	TUBO	023.061A.046-R0	13	6	ASTM A-106 B	3" SCH80 68	1834/08	2008/15608	
FORNALHA	TUBO	023.061A.046-R0	6	1	ASTM A-106 B	1" SCH80 150	1125/09	50400050	
FORNALHA	TUBO	023.061A.046-R0	1	1	ASTM A-106 B	10" SCH160 7914	1032/10	50342472	
FORNALHA	TUBO	023.061A.046-R0	1	1	ASTM A-106 B	10" SCH160 2483	006/08	50304863	
FORNALHA	TUBO	023.061A.046-R0	1	1	ASTM A-106 B	10" SCH160 2679	418/08	50249913	
FORNALHA	TUBO	023.061A.046-R0	1	1	ASTM A-106 B	10" SCH160 2487	1032/10	50342472	
FORNALHA	TUBO	023.061A.046-R0	11	1	ASTM A-106 B	8" SCH160 2087	1054/10	50434598	
FORNALHA	TUBO	023.061A.046-R0	10	1	ASTM A-106 B	8" SCH160 900	1054/10	50434598	
FORNALHA	TUBO	023.061A.046-R0	9	1	ASTM A-106 B	8" SCH160 900	1054/10	50434598	
FORNALHA	TUBO	023.061A.046-R0	8	1	ASTM A-106 B	8" SCH160 900	1054/10	50434598	
FORNALHA	TUBO	023.061A.046-R0	7	1	ASTM A-106 B	8" SCH160 900	1054/10	50434598	
FORNALHA	TUBO	023.061A.046-R0	14	1	ASTM A-106 B	8" SCH160 2306	1054/10	50434598	
FORNALHA	TUBO	023.061A.046-R0	14	1	ASTM A-106 B	8" SCH160 2672	1054/10	50434598	
FORNALHA	TUBO	023.061A.046-R0	3	2	ASTM A-106 B	3" SCH160 200	1071/07	50304926	
FORNALHA	TUBO	023.043A.046-R0	6	16	ASTM A - 178	2.1/2" #4.50mm x 8399	330/08	77660	
FORNALHA	TUBO	023.043A.046-R0	5	2	ASTM A - 178	2.1/2" #4.50mm x 8947	330/08	77660	
FORNALHA	TUBO	023.043A.046-R0	4	2	ASTM A - 178	2.1/2" #4.50mm x 700	330/08	77660	
FORNALHA	TUBO	023.043A.046-R0	3	8	ASTM A - 178	2.1/2" #4.50mm x 1148	330/08	77660	
FORNALHA	TUBO	023.043A.046-R0	1	48	ASTM A - 178	2.1/2" #4.50mm x 9445	330/08	77660	
FORNALHA	TUBO	023.043A.046-R0	2	8	ASTM A - 178	2.1/2" #4.50mm x 1260	330/08	77660	
FORNALHA	TUBO	023.044A.046-R0	3	1	ASTM A-106 B	6" SCH80 900	723/10	50421561	
FORNALHA	TUBO	023.044A.046-R0	2	1	ASTM A-106 B	8" SCH160 3930	535/08	50187524	
FORNALHA	TUBO	023.044A.046-R0	1	1	ASTM A-106 B	8" SCH160 3930	1054/10	50434598	
ECONOMIZADOR	TUBO	027.002C.027-R0	6	36	ASTM A - 178	2" #4.25mm x 719	1110/09	259027	
ECONOMIZADOR	TUBO	027.002C.027-R0	5	18	ASTM A - 178	2" #4.25mm x 602	1110/09	259027	
ECONOMIZADOR	TUBO	027.002C.027-R0	4	396	ASTM A - 178	2" #4.25mm x 390	1110/09	259027	
ECONOMIZADOR	TUBO	027.012A.027-R0	3	6	ASTM A-106 B	6" SCH80 239,5	723/10	50421561	
ECONOMIZADOR	TUBO	027.010A.027-R0	1	2	ASTM A-106 B	6" SCH120 2351	479/08	MV7162B	
ECONOMIZADOR	TUBO	027.009A.027-R0	1	2	ASTM A-106 B	6" SCH120 2351	479/08	MV7162B	
ECONOMIZADOR	TUBO	027.003A.027-R0	1	343	ASTM A - 178	2" #3,75mm x 9200	745/08	21140	
ECONOMIZADOR	TUBO	027.003A.027-R0	1	343	ASTM A - 178	2" #3,75mm x 9200	743/08	21143	
SILO DOSADOR	BARRA REDONDA TREFILADA	032.017A.026-R0	2	24	VIDE CERTIF.	Ø 40 X 80	225/06	47927/07	
SILO DOSADOR	CAPS	032.004A.026-R0	46	1	ASTM A-234 WPB	2" SCH80	1596/10	920	
SILO DOSADOR	TUBO	032.112A.026-R0	4	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.130A.026-R0	7	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.130A.026-R0	4	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.170A.026-R0	5	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.170A.026-R0	4	2	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.135A.026-R0	7	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.135A.026-R0	4	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.155A.026-R0	5	3	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.150A.026-R0	10	2	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.150A.026-R0	4	2	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.174A.026-R0	4	2	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.172A.026-R0	5	3	ASTM A-106 B	1" SCH40 100	1042/10	50355026	



		PLANILHA GERAL DE IDENTIFICAÇÃO DE MATÉRIA PRIMA E COMPONENTES						DATA 08/06/2011	
CLIENTE : IDENT. DO EQUIP: ORDEM DE SERVIÇO :		COMASA BGV-90.000 4570 2009							
COMPONENTE	PARTE	N° DESENHO	POS.	QTD.	MATERIAL	DIMENSÕES	C.R.	Nº CERTIFICADO	
SILO DOSADOR	TUBO	032.111A.026-R0	4	4	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.137A.026-R0	4	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.156A.026-R0	5	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.156A.026-R0	4	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.131A.026-R0	10	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.131A.026-R0	9	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.151A.026-R0	5	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.151A.026-R0	4	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.171A.026-R0	10	7	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.171A.026-R0	9	2	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.153A.026-R0	5	3	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.132A.026-R0	5	4	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.173A.026-R0	5	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.173A.026-R0	4	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.110A.026-R0	7	2	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.110A.026-R0	6	6	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.152A.026-R0	10	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.152A.026-R0	9	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.133A.026-R0	9	8	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.133A.026-R0	8	2	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.134A.026-R0	5	6	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.112B.026-R0	4	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.136A.026-R0	5	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.136A.026-R0	4	1	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.154A.026-R0	9	8	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.154A.026-R0	8	2	ASTM A-106 B	1" SCH40 100	1042/10	50355026	
SILO DOSADOR	TUBO	032.021A.026-R0	7	8	ASTM A-106 B	8" SCH80 250	1031/10	50429772	
SILO DOSADOR	TUBO	032.021A.026-R0	7	8	ASTM A-106 B	8" SCH80 250	1219/10	50440039	
SILO DOSADOR	TUBO	032.050A.026-R0	15	1	ASTM A-106 B	1/4" SCH80 1150	464/06	50057228	
SILO DOSADOR	TUBO	032.050A.026-R0	11	1	ASTM A-106 B	1/4" SCH80 206	464/06	50057228	
SILO DOSADOR	TUBO	032.004A.026-R0	10	2	ASTM A-106 B	2" SCH80 8310	1189/10	50399419	
SILO DOSADOR	TUBO	032.004A.026-R0	25	1	ASTM A-106 B	2" SCH80 8457	1189/10	50399419	
SILO DOSADOR	TUBO	032.004A.026-R0	41	23	ASTM A-106 B	1" SCH40 215	1042/10	50355026	
SILO DOSADOR	TUBO	032.045A.026-R0	1	1	ASTM A-106 B	5" SCH80 7835	803/10	50429709	
SILO DOSADOR	TUBO	032.044A.026-R0	1	2	ASTM A-106 B	6" SCH120 29	1815/08	50312943	
SILO DOSADOR	TUBO	032.014A.026-R0	3	6	ASTM A-106 B	6" SCH80 650	723/10	50421561	
DUTOS DE AR E GASES	TUBO	023.089A.046-R0	9	1	ASTM A-106 B	6" SCH80 900	723/10	50421561	
DUTOS DE AR E GASES	TUBO	023.089A.046-R0	7	1	ASTM A-106 B	6" SCH80 130	723/10	50421561	
DUTOS DE AR E GASES	TUBO	023.089A.046-R0	5	1	ASTM A-106 B	6" SCH80 1678	723/10	50421561	
DUTOS DE AR E GASES	TUBO	033.422A.044-R0	10	8	ASTM A-106 B	1.1/2" SCH80 788	1188/10	50384091	
DUTOS DE AR E GASES	TUBO	033.430A.044-R0	2	8	ASTM A-106 B	6" SCH40 1250	726/10	50423692	
DUTOS DE AR E GASES	TUBO	033.430A.044-R0	2	8	ASTM A-106 B	6" SCH40 1250	1190/10	50347158	
DUTOS DE AR E GASES	TUBO	023.089A.046-R0	3	1	ASTM A-106 B	8" SCH80 1678	2130/10	50440006	
DUTOS DE AR E GASES	TUBO	023.089A.046-R0	1	1	ASTM A-106 B	8" SCH80 6782	2131/10	50440008	
DESAERADOR	TUBO	034.003A.022-R0	7	1	ASTM A-106 B	2" SCH80 200	2083/10	50432323	
DESAERADOR	TUBO	034.002A.022-R0	11	1	ASTM A-106 B	2" SCH80 250	2083/10	50432323	
DESAERADOR	TUBO	034.002A.022-R0	7	1	ASTM A-106 B	2" SCH80 200	2083/10	50432323	
DESAERADOR	TUBO	034.170A.022-R0	5	2	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.131A.022-R0	7	10	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.131A.022-R0	6	4	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.132A.022-R0	8	4	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.132A.022-R0	5	4	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.113A.022-R0	4	2	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	MEIA LUVA	034.002A.022-R0	31	2	ASTM A-105	1.1/2" 3000LBS NPT	1244/10	24558316	
DESAERADOR	FLANGE SO	034.002A.022-R0	19	1	ASTM A-105	10" 150LBS	489/09	4696/2	
DESAERADOR	FLANGE SO	034.002A.022-R0	23	1	ASTM A-105	6" 150LBS	1443/10	860	
DESAERADOR	FLANGE SO	034.002A.022-R0	33	1	ASTM A-105	4" 150LBS	1022/10	0526/10	
DESAERADOR	FLANGE SO	034.002A.022-R0	20	1	ASTM A-105	3" 150LBS	1021/10	0526/10	
DESAERADOR	FLANGE SO	034.002A.022-R0	22	1	ASTM A-105	2" 150LBS	1020/10	0526/10	
DESAERADOR	FLANGE SO	034.002A.022-R0	21	4	ASTM A-105	1" 150LBS	052/05	5010381	
DESAERADOR	FLANGE SO	034.002A.022-R0	21	4	ASTM A-105	1" 150LBS	915/08	2411/2	
DESAERADOR	FLANGE SO	034.003A.022-R0	18	1	ASTM A-105	12" 150LBS	1019/10	0526/10	
DESAERADOR	FLANGE SO	034.003A.022-R0	8	3	ASTM A-105	6" 150LBS	1023/10	0526/10	
DESAERADOR	FLANGE SO	034.003A.022-R0	8	3	ASTM A-105	6" 150LBS	1024/10	0526/10	
DESAERADOR	FLANGE SO	034.003A.022-R0	8	3	ASTM A-105	6" 150LBS	1443/10	860	
DESAERADOR	CHAPA	034.251A.022-R0	1	1	ASTM A-516 °70	3/8" X 3,990M²	1012/10	508279	
DESAERADOR	CHAPA	034.251A.022-R0	1	2	ASTM A-516 °70	3/8" X 48,260M²	1012/10	508279	
DESAERADOR	CHAPA	034.251B.022-R0	1	1	ASTM A-516 °70	5/16" X 6,610M²	1004/10	1854722	

		PLANILHA GERAL DE IDENTIFICAÇÃO DE MATÉRIA PRIMA E COMPONENTES						DATA 08/06/2011	
CLIENTE :		COMASA							
IDENT. DO EQUIP:		BGV-90.000							
ORDEM DE SERVIÇO :		4570 2009							
COMPONENTE	PARTE	N° DESENHO	POS.	QTD.	MATERIAL	DIMENSÕES	C.R.	Nº CERTIFICADO	
DESAERADOR	CHAPA	034.251B.022-R0	1	1	ASTM A-516 °70	5/16" X 14,480M²	1004/10	1854722	
DESAERADOR	TAMPO	034.252A.022-R0	2	2	A - 516 °70	Ø 1815,8EXT X 1800INT X 5/16"	1007/10	263395	
DESAERADOR	TAMPO	034.252A.022-R0	1	2	A - 516 °70	Ø 3019EXT X 3000INT X 3/8"	1012/10	508279	
DESAERADOR	TUBO INOX	034.015A.022-R0	17	1	A-312	6" X SCH80s 2100	2010/08	76377	
DESAERADOR	TUBO INOX	034.015A.022-R0	14	6	A-312	3/4" X SCH40s 20	2010/08	76377	
DESAERADOR	BARRA REDONDA TREFILADA	034.009A.022-R0	4	8	AISI - 304	Ø 16 X 140	984/10	234108	
DESAERADOR	BARRA REDONDA TREFILADA	034.009A.022-R0	3	8	AISI - 304	Ø 60 X 22	982/10	234106	
DESAERADOR	TUBO AÇO INOX	034.009A.022-R0	1	8	ASTM A-312	2.1/2" X 70 SCH80s	2013/08	76377	
DESAERADOR	TUBO AÇO INOX	034.009A.022-R0	10	8	ASTM A-312	3" X 40 SCH10s	139/09	80038	
DESAERADOR	CHAPA		1	1	ASTM A-516 °70	5/16" X 9,590m²	1007/10	263395	
DESAERADOR	CHAPA		1	1	ASTM A-516 °70	3/8" X 16,320m²	965/09	405933	
DESAERADOR	CHAPA		1	1	ASTM A-516 °70	3/8" X 9,490m²	965/09	405933	
DESAERADOR	TUBO	034.153A.022-R0	8	2	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.153A.022-R0	7	2	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.173A.022-R0	8	2	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.173A.022-R0	7	2	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.110A.022-R0	5	4	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.112A.022-R0	5	4	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.111A.022-R0	6	4	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.150A.022-R0	5	2	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.174A.022-R0	7	1	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.174A.022-R0	6	1	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.172A.022-R0	8	1	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.172A.022-R0	7	1	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.171A.022-R0	8	1	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.171A.022-R0	7	1	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.133A.022-R0	5	10	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.133A.022-R0	4	4	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.151A.022-R0	8	2	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.151A.022-R0	7	2	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.130A.022-R0	5	10	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.114A.022-R0	4	2	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.152A.022-R0	4	1	ASTM A-106 B	1" SCH40 100	1184/10	50370253	
DESAERADOR	TUBO	034.003A.022-R0	6	1	ASTM A-106 B	12" SCH80 280	470/08	50329687	
DESAERADOR	TUBO	034.003A.022-R0	10	2	ASTM A-106 B	10" SCH80 630	1061/10	50397987	
DESAERADOR	TUBO	034.003A.022-R0	17	1	ASTM A-106 B	6" SCH80 900	1536/08	50344507	
DESAERADOR	TUBO	034.003A.022-R0	16	1	ASTM A-106 B	6" SCH80 250	724/10	50421561	
DESAERADOR	TUBO	034.003A.022-R0	15	2	ASTM A-106 B	1/2" SCH80 200	2380/08	50372523	
DESAERADOR	TUBO	034.002A.022-R0	13	1	ASTM A-106 B	10" SCH80 250	1061/10	50397987	
DESAERADOR	TUBO	034.002A.022-R0	15	1	ASTM A-106 B	6" SCH80 984	724/10	50421561	
DESAERADOR	TUBO	034.002A.022-R0	14	1	ASTM A-106 B	6" SCH80 750	724/10	50421561	
DESAERADOR	TUBO	034.002A.022-R0	32	1	ASTM A-106 B	4" SCH80 250	008/08	50208720	
DESAERADOR	TUBO	034.002A.022-R0	30	1	ASTM A-106 B	3" SCH80 250	1083/08	50331708	
DESAERADOR	TUBO	034.002A.022-R0	12	2	ASTM A-106 B	1.1/2" SCH80 250	1046/10	50433084	
DESAERADOR	TUBO	034.002A.022-R0	27	2	ASTM A-106 B	1" SCH80 504	432/10	50249173	
DESAERADOR	TUBO	034.002A.022-R0	8	2	ASTM A-106 B	1" SCH80 650	432/10	50249173	
DESAERADOR	TUBO	034.002A.022-R0	10	1	ASTM A-106 B	3/4" SCH80 200	1049/10	50433637	
DESAERADOR	TUBO	034.002A.022-R0	29	1	ASTM A-106 B	1/2" SCH80 200	2380/08	50372523	
DESAERADOR	TUBO	034.002A.022-R0	28	2	ASTM A-106 B	1/2" SCH80 200	2380/08	50372523	
DESAERADOR	TUBO	034.002A.022-R0	9	2	ASTM A-106 B	1/2" SCH80 650	2380/08	50372523	
TANQUE DESCARGA DE FUNDO	CURVA 90º	036.002A.017-R0	4	2	ASTM A-234 WPE	2" SCH80	222/10	24055213	
TANQUE DESCARGA DE FUNDO	CURVA 90º	036.002A.017-R0	7	1	ASTM A-234 WPE	1.1/2" SCH80	583/10	24195106	
TANQUE DESCARGA DE FUNDO	REDUÇÃO CONCENTRICA	036.002A.017-R0	11	1	ASTM A-234 WPE	3" X 1.1/2" SCH80	351/10	24115523	
TANQUE DESCARGA DE FUNDO	LUVA	036.002A.017-R0	37	1	ASTM A-105	1/2" X 50mm 3000LBS SW/NPT	1427/08	2904/1	
TANQUE DESCARGA DE FUNDO	TEE	036.002A.017-R0	14	1	ASTM A-234 WPE	3" SCH80	1996/08	22319302	
TANQUE DESCARGA DE FUNDO	REDUÇÃO EXCENTRICA	036.002A.017-R0	6	1	ASTM A-234 WPE	3" X 2" SCH80	592/10	24195115	
TANQUE DESCARGA DE FUNDO	TEE REDUÇÃO	036.002A.017-R0	15	1	ASTM A-234 WPE	3" x 2" SCH80	312/10	24115561	
TANQUE DESCARGA DE FUNDO	FLANGE SO	036.002A.017-R0	36	1	ASTM A-105	4" 150LBS	358/10	24115534	
TANQUE DESCARGA DE FUNDO	FLANGE SO	036.002A.017-R0	41	1	ASTM A-105	3" 150LBS	357/10	24115533	
TANQUE DESCARGA DE FUNDO	FLANGE SO	036.002A.017-R0	32	3	ASTM A-105	2" 150LBS	160/10	24028021	
TANQUE DESCARGA DE FUNDO	FLANGE SO	036.002A.017-R0	32	3	ASTM A-105	2" 150LBS	356/10	24115532	
TANQUE DESCARGA DE FUNDO	TUBO	036.002A.017-R0	20	1	ASTM A-106 B	4" SCH80 435	437/10	50296786	
TANQUE DESCARGA DE FUNDO	TUBO	036.002A.017-R0	18	1	ASTM A-106 B	3" SCH80 82	732/10	50397003	
TANQUE DESCARGA DE FUNDO	TUBO	036.002A.017-R0	17	1	ASTM A-106 B	3" SCH80 679	732/10	50397003	
TANQUE DESCARGA DE FUNDO	TUBO	036.002A.017-R0	3	1	ASTM A-106 B	3" SCH80 710	1629/08	50349678	
TANQUE DESCARGA DE FUNDO	TUBO	036.002A.017-R0	39	2	ASTM A-106 B	2.1/2" SCH80 100	338/05	50126531	
TANQUE DESCARGA DE FUNDO	TUBO	036.002A.017-R0	21	1	ASTM A-106 B	2" SCH80 422	440/07	50257525	
TANQUE DESCARGA DE FUNDO	TUBO	036.002A.017-R0	5	1	ASTM A-106 B	2" SCH80 115	440/07	50257525	

		PLANILHA GERAL DE IDENTIFICAÇÃO DE MATÉRIA PRIMA E COMPONENTES						DATA 08/06/2011	
CLIENTE :		COMASA							
IDENT. DO EQUIP:		BGV-90.000							
ORDEM DE SERVIÇO :		4570 2009							
COMPONENTE	PARTE	N° DESENHO	POS.	QTD.	MATERIAL	DIMENSÕES	C.R.	Nº CERTIFICADO	
TANQUE DESCARGA DE FUNDO	TUBO	036.002A.017-R0	19	2	ASTM A-106 B	2" SCH80 426	440/07	50257525	
TANQUE DESCARGA DE FUNDO	TUBO	036.002A.017-R0	2	1	ASTM A-106 B	2" SCH80 136	440/07	50257525	
TANQUE DESCARGA DE FUNDO	TUBO	036.002A.017-R0	16	1	ASTM A-106 B	2" SCH80 261	440/07	50257525	
TANQUE DESCARGA DE FUNDO	TUBO	036.002A.017-R0	13	1	ASTM A-106 B	2" SCH80 412	440/07	50257525	
TANQUE DESCARGA DE FUNDO	TUBO	036.002A.017-R0	12	1	ASTM A-106 B	2" SCH80 130	440/07	50257525	
TANQUE DESCARGA DE FUNDO	TUBO	036.002A.017-R0	9	1	ASTM A-106 B	1.1/2" SCH80 1060	713/10	50417756	
TANQUE DESCARGA DE FUNDO	TUBO	036.002A.017-R0	8	1	ASTM A-106 B	1.1/2" SCH80 583	713/10	50417756	
TANQUE DESCARGA DE FUNDO	TAMPO	036.002A.017-R0	29	1	A - 285-C	Ø 913EXT X 900INT X 1/4"	1053/07	1654691	
TANQUE DESCARGA DE FUNDO	TAMPO	036.002A.017-R0	23	1	A - 285-C	Ø 913EXT X 900INT X 1/4"	1053/07	1654691	
TANQUE DESCARGA DE FUNDO	CHAPA ASTM	036.052A.017-R0	1	1	VIDE CERTIF.	1/4" A-285 6,35mm	1053/07	1654691	
TANQUE DESCARGA CONTÍNUA	TUBO	037.002A.00-R0	20	1	ASTM A-106 B	4" SCH80 181	1942/08	50341691	
TANQUE DESCARGA CONTÍNUA	TUBO	037.002A.00-R0	15	1	ASTM A-106 B	2" SCH80 140	440/07	50257525	
TANQUE DESCARGA CONTÍNUA	TUBO	037.002A.00-R0	28	1	ASTM A-106 B	2" SCH80 80	440/07	50257525	
TANQUE DESCARGA CONTÍNUA	TUBO	037.002A.00-R0	18	1	ASTM A-106 B	2" SCH80 136	440/07	50257525	
TANQUE DESCARGA CONTÍNUA	TUBO	037.002A.00-R0	16	1	ASTM A-106 B	1" SCH80 220	1099/09	50397022	
TANQUE DESCARGA CONTÍNUA	TUBO	037.002A.00-R0	7	3	ASTM A-106 B	1" SCH80 220	1099/09	50397022	
TANQUE DESCARGA CONTÍNUA	FLANGE SO	037.006A.010-R0	2	1	ASTM A-105	2" 150LBS	355/10	24115531	
TANQUE DESCARGA CONTÍNUA	FLANGE SO	037.004A.010-R0	6	2	ASTM A-105	3/4" 150LBS	519/06	2006/7164	
TANQUE DESCARGA CONTÍNUA	FLANGE SO	037.004A.010-R0	6	2	ASTM A-105	3/4" 150LBS	212/07	2007/1935	
TANQUE DESCARGA CONTÍNUA	FLANGE SO	037.004A.010-R0	8	2	ASTM A-105	1" 150LBS	052/05	5010381	
TANQUE DESCARGA CONTÍNUA	FLANGE SO	037.004A.010-R0	8	2	ASTM A-105	1" 150LBS	2086/08	3627/2	
TANQUE DESCARGA CONTÍNUA	FLANGE SO	037.002A.010-R0	21	1	ASTM A-105	4" 150LBS	358/10	24115534	
TANQUE DESCARGA CONTÍNUA	FLANGE SO	037.002A.010-R0	17	1	ASTM A-105	2" 150LBS	355/10	24115531	
TANQUE DESCARGA CONTÍNUA	LUVA	037.002A.010-R0	30	1	ASTM A-105	1/2" X 50mm 3000LBS SW NP1	1427/08	2904/1	
TANQUE DESCARGA CONTÍNUA	CAPS	037.004A.010-R0	3	2	ASTM A-234 WPE	3" SCH40	1681/08	3152	
TANQUE DESCARGA CONTÍNUA	LUVA	037.004A.010-R0	4	2	ASTM A-105	3/4" X 50mm 3000LBS SW NP1	911/08	2430/1	
TANQUE DESCARGA CONTÍNUA	TAMPO	037.002A.010-R0	4	1	A - 285-C	Ø 913EXT X 900INT X 1/4"	1053/07	1654691	
TANQUE DESCARGA CONTÍNUA	TAMPO	037.002A.010-R0	2	1	A - 285-C	Ø 913EXT X 900INT X 1/4"	1053/07	1654691	
TANQUE DESCARGA CONTÍNUA	TUBO	037.004A.010-R0	7	4	ASTM A-106 B	1" SCH80 130	273/09	MV7039	
TANQUE DESCARGA CONTÍNUA	TUBO	037.004A.010-R0	1	2	ASTM A-106 B	3/4" SCH80 170	135/10	50375410	
TANQUE DESCARGA CONTÍNUA	TUBO	037.004A.010-R0	2	1	ASTM A-106 B	3" SCH40 780	179/10	50416394	
TANQUE DESCARGA CONTÍNUA	CHAPA ASTM	037.052A.010-R0	1	1	VIDE CERTIF.	1/4" A-285 6,35mm	1053/07	1654691	
TANQUE DESCARGA CONTÍNUA	TUBO	037.006A.010-R0	1	1	ASTM A-106 B	2" SCH80 114	291/10	50413897	
CONDENSADOR	TUBO	058.002A.003-R0	11		ASTM A-106	5" SCH 160	251/11	50418888	
CONDENSADOR	TUBO	058.002A.003-R0	19	1	ASTM A-106	2" SCH 80	415/05	206/05	
CONDENSADOR	TUBO	058.002A.003-R0	7	1	ASTM A-106	20" SCH 80	1220/10	1804/09	
CONDENSADOR	TUBO	058.002A.003-R0	9	2	ASTM A-106	20" SCH 80	1220/10	1804/09	
CONDENSADOR	CHAPA		1		ASTM A-516 70	3.1/2" #E 88,9mm	965/10	12322576/30	
CONDENSADOR	CAP	058.002A.003-R0	8	2	ASTM A-234	20" SCH 80	311/11	14183	
CONDENSADOR	REDUÇÃO CONCENTRICA	058.002A.003-R0	26	1	ASTM A-234	4" X 3" SCH 160	1615/10	916	
CONDENSADOR	FLANGE	058.002A.003-R0	28	2	ASTM A-105	20" SCH 80	2084/10	25020805	
CONDENSADOR	FLANGE	058.002A.003-R0	12	2	ASTM A-105	5" SCH 160	310/11	14183	
SUPER AQUECEDOR PRIMÁRIO	CAPS	023.095A.046-R0	2	1	ASTM A-234 WPE	8" SCH120	1405/10	853	
SUPER AQUECEDOR PRIMÁRIO	TUBO	023.095A.046-R0	1	1	ASTM A-106 B	8" SCH120 4920	1371/08	50348939	
SUPER AQUECEDOR PRIMÁRIO	TUBO	DA4570.023.004-R0	6	42	ASTM A-192	2" #4,25 X 486	1063/10	50436879	
SUPER AQUECEDOR PRIMÁRIO	TUBO	DA4570.023.004-R0	5	42	ASTM A-192	2" #4,25 X 9885	1063/10	50436879	
SUPER AQUECEDOR PRIMÁRIO	TUBO	DA4570.023.004-R0	4	210	ASTM A-192	2" #4,25 X 9665	1063/10	50436879	
SUPER AQUECEDOR PRIMÁRIO	TUBO	DA4570.023.004-R0	3	42	ASTM A-213 T11	2" #3,75 X 865	1525/08	50355689	
SUPER AQUECEDOR PRIMÁRIO	TUBO	DA4570.023.004-R0	3	42	ASTM A-213 T11	2" #3,75 X 8798	1525/08	50355689	
SUPER AQUECEDOR PRIMÁRIO	TUBO	DA4570.023.004-R0	2	168	ASTM A-213 T11	2" #3,75 X 867	1525/08	50355689	
SUPER AQUECEDOR PRIMÁRIO	TUBO	DA4570.023.004-R0	2	168	ASTM A-213 T11	2" #3,75 X 8798	1525/08	50355689	
SUPER AQUECEDOR PRIMÁRIO	TUBO	DA4570.023.004-R0	1	42	ASTM A-213 T11	2" #3,75 X 1487	1525/08	50355689	
SUPER AQUECEDOR PRIMÁRIO	TUBO	DA4570.023.004-R0	1	42	ASTM A-213 T11	2" #3,75 X 8796	1525/08	50355689	
SUPER AQUECEDOR PRIMÁRIO	TUBO	023.096A.046-R0	1	1	ASTM A-335 P11	10" SCH120 5775	1221/10	50408693	
SUPER AQUECEDOR SECUNDÁRIO	CAPS	023.099A.046-R0	2	1	STM A-234 WP 2	10" SCH160	1609/10	917	
SUPER AQUECEDOR SECUNDÁRIO	TUBO	023.099A.046-R0	1	1	ASTM A-335 P11	10" SCH 160	150/11	WYYK7993	
SUPER AQUECEDOR SECUNDÁRIO	TUBO	DA4570.023.010-R0	9	42	ASTM A-213 T22	2" #4,75 X 533	1154/10	50439786	
SUPER AQUECEDOR SECUNDÁRIO	TUBO	DA4570.023.010-R0	8	42	ASTM A-213 T22	2" #4,75 X 9850	1154/10	50439786	
SUPER AQUECEDOR SECUNDÁRIO	TUBO	DA4570.023.010-R0	7	42	ASTM A-213 T22	2" #4,75 X 9665	1154/10	50439786	
SUPER AQUECEDOR SECUNDÁRIO	TUBO	DA4570.023.010-R0	12	42	ASTM A-213 T11	2" #3,75 X 9665	695/08	50335233	
SUPER AQUECEDOR SECUNDÁRIO	TUBO	DA4570.023.010-R0	11	252	ASTM A-213 T11	2" #3,75 X 867	695/08	50335233	
SUPER AQUECEDOR SECUNDÁRIO	TUBO	DA4570.023.010-R0	11	252	ASTM A-213 T11	2" #3,75 X 8798	695/08	50335233	
SUPER AQUECEDOR SECUNDÁRIO	TUBO	DA4570.023.010-R0	10	42	ASTM A-213 T11	2" #3,75 X 1097	695/08	50335233	
SUPER AQUECEDOR SECUNDÁRIO	TUBO	DA4570.023.010-R0	10	42	ASTM A-213 T11	2" #3,75 X 8657	695/08	50335233	
SUPER AQUECEDOR SECUNDÁRIO	TUBO	023.098A.046-R0	1	1	ASTM A-335 P11	10" SCH120 5775	1221/10	50408693	
DESSUPERAQUECEDOR	TUBO	061.001A.019-R1	3	1	ASTM A-106 B	3.1/2" SCH80 168	304/09	50313328	
DESSUPERAQUECEDOR	LUVA	061.001A.019-R0	15	4	ASTM A-105	1/2" X 50mm 6000LBS SW NP1	1618/10	916	
DESSUPERAQUECEDOR	TARUGO	061.003A.019-R0	1	1	ASTM A-182 F11	4" x 2"	1701/10	952	

		PLANILHA GERAL DE IDENTIFICAÇÃO DE MATÉRIA PRIMA E COMPONENTES						DATA 08/06/2011	
CLIENTE :		COMASA							
IDENT. DO EQUIP:		BGV-90.000							
ORDEM DE SERVIÇO :		4570 2009							
COMPONENTE	PARTE	N° DESENHO	POS.	QTD.	MATERIAL	DIMENSÕES	C.R.	Nº CERTIFICADO	
DESSUPERAQUECEDOR	TUBO	061.001A.019-R0	3	1	ASTM A-106 B	3.1/2" SCH80 161	1816/08	50356125	
DESSUPERAQUECEDOR	TUBO	061.001A.019-R0	9	1	ASTM A-106 B	2" SCH80 175	1052/10	50432323	
DESSUPERAQUECEDOR	TUBO	061.001A.019-R0	16	1	ASTM A-106 B	3/4" SCH80 200	733/10	50369127	
DESSUPERAQUECEDOR	TUBO	061.001A.019-R0	12	2	ASTM A-106 B	1/2" SCH80 200	2380/08	50372523	
DESSUPERAQUECEDOR	TUBO	061.001A.019-R0	11	1	ASTM A-335 P11	10" SCH80 7427	1605/08	50357836	
DESSUPERAQUECEDOR	TUBO	061.001A.019-R0	1	1	ASTM A-335 P11	10" SCH80 2000	1605/08	50357836	
DESSUPERAQUECEDOR	CHAPA	061.001A.019-R1	17	1	ASTM A-516 70	5/8" X 0,030M²	1130/09	259194	
REDLER	BARRA REDONDA LAMINADA	095.012A.009-R0	14	5	VIDE CERTIF.	Ø 101,6 X 678	1969/10	1387190	
REDLER	BARRA REDONDA TREFILADA	095.056A.009-R0	5	9	SAE 1045	Ø65mm x 200mm	1968/10	71686	
REDLER	BARRA REDONDA TREFILADA	095.056A.009-R0	6	14	SAE 1045	# E Ø20mm	1828/10	498274	
REDLER	BARRA REDONDA TREFILADA	095.056A.009-R0	9	5	SAE 1045	Ø 65mm	2035/10	418441	
REDLER	BARRA REDONDA TREFILADA	095.056A.009-R0	9	1	SAE 1045	Ø 65mm	2035/10	418441	
REDLER	BARRA REDONDA LAMINADA	095.051B.009-R0	11	1	VIDE CERTIF.	Ø 101,6 X 920	1969/10	1387190	
REDLER	BARRA REDONDA LAMINADA	095.051A.009-R0	11	1	VIDE CERTIF.	Ø 101,6 X 920	1969/10	1387190	
REDLER	BARRA REDONDA LAMINADA	095.101A.009-R0	7	1	VIDE CERTIF.	Ø 101,6 X 820	1969/10	1387190	
REDLER	BARRA REDONDA TREFILADA	095.016A.009-R0	9	15	VIDE CERTIF.	SAE 1045 Ø65mm	2035/10	418441	
REDLER	BARRA REDONDA TREFILADA	095.016A.009-R0	5	25	VIDE CERTIF.	SAE 1045 Ø30mm	1968/10	71686	
REDLER	BARRA REDONDA TREFILADA	095.016A.009-R0	6	45	VIDE CERTIF.	SAE 1045 Ø20mm	1828/10	498274	
REDLER	BARRA REDONDA LAMINADA	095.105A.009-R0	2	3	VIDE CERTIF.	Ø 127,0 X 60	1712/10	526693	
REDLER	BARRA REDONDA LAMINADA	095.065B.009-R0	2	1	VIDE CERTIF.	Ø 127,0 X 60	1712/10	526693	
REDLER	BARRA REDONDA LAMINADA	095.025A.009-R0	2	2	VIDE CERTIF.	Ø 127,0 X 60	1712/10	526693	
REDLER	BARRA REDONDA LAMINADA	095.011A.009	7	2	VIDE CERTIF.	SAE 1045 Ø101.60mm 4"	1968/10	71686	
REDLER	BARRA REDONDA LAMINADA	095.065A.009-R0	2	1	VIDE CERTIF.	Ø 127,0 X 60	1712/10	526693	
REDLER	BARRA REDONDA LAMINADA	095.106A.009-R0	2	3	VIDE CERTIF.	Ø 139,7 X 65	1829/10	2934241/2010	
REDLER	BARRA REDONDA LAMINADA	095.026A.009-R0	2	2	VIDE CERTIF.	Ø 139,7 X 65	1829/10	2934241/2010	
REDLER	BARRA REDONDA LAMINADA	095.066B.009-R0	2	1	VIDE CERTIF.	Ø 139,7 X 65	1829/10	2934241/2010	
REDLER	BARRA REDONDA LAMINADA	095.066A.009-R0	2	1	VIDE CERTIF.	Ø 139,7 X 65	1829/10	2934241/2010	
REDLER	BARRA REDONDA LAMINADA	095.052A.009-R1	23	2	VIDE CERTIF.	SAE 1045 157101.60mm	1968/10	71686	
TUBOLÃO DE VAPOR	FLANGE SO	097.031A.025-R2	35	1	ASTM A-105	2.1/2" 900LBS RF	1728/10	40410-A	
TUBOLÃO DE VAPOR	FLANGE SO	097.031A.025-R2	36	1	ASTM A-105	2" 900LBS RF	1727/10	40410-A	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	17	1	ASTM A-106 B	12" SCH80 250	858/08	50323713	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	16	1	ASTM A-106 B	12" SCH80 250	858/08	50323713	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	7	8	ASTM A-106 B	6" SCH80 433	181/10	50412422	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	28	1	ASTM A-106 B	4" SCH80 500	655/10	50424867	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	25	2	ASTM A-106 B	4" SCH80 500	655/10	50424867	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	10	10	ASTM A-106 B	4" SCH80 517	655/10	50424867	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	9	10	ASTM A-106 B	4" SCH80 312	655/10	50424867	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	12	2	ASTM A-106 B	2" SCH80 580	653/10	50425638	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	18	2	ASTM A-106 B	1.1/2" SCH80 200	1046/10	50433084	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	13	4	ASTM A-106 B	1" SCH80 580	432/10	50249173	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	5	2	ASTM A-106 B	20" SCH160 305	2137/08	201904	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	4	2	ASTM A-106 B	14" SCH160 657	356/08	WXTG-071288	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	8	8	ASTM A-106 B	6" SCH120 288	654/06	50204555	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	8	8	ASTM A-106 B	6" SCH120 288	479/08	MV7162B	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	27	6	ASTM A-106 B	4" SCH120 312	610/08	50265401	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	6	2	ASTM A-106 B	8" SCH100 405	478/08	50272796	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R1	11	1	ASTM A-106 B	3" SCH80 500	1764/10	50415130	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R3	39	1	ASTM A-106 B	3" SCH80 400	1764/10	50415130	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R3	37	2	ASTM A-106 B	2" SCH80 400	653/10	50425638	
TUBOLÃO DE VAPOR	TUBO	097.035A.025-R1	16	2	ASTM A-106 B	2" SCH80 400	1052/10	50432323	
TUBOLÃO DE VAPOR	TUBO	097.035A.025-R1	2	1	ASTM A-106 B	3/4" SCH80 12034	1217/10	50433637	
TUBOLÃO DE VAPOR	TUBO	097.035A.025-R1	19	1	ASTM A-106 B	6" SCH160 500	1047/10	50412964	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R2	34	1	ASTM A-106 B	2.1/2" SCH80 500	428/05	50147065	
TUBOLÃO DE VAPOR	TUBO	097.031A.025-R2	33	1	ASTM A-106 B	2" SCH80 500	1052/10	50432323	
TUBOLÃO DE VAPOR	CAPS	097.031A.025-R3	38	2	ASTM A-234 WPB	2" SCH80	1854/10	2010/15351	
TUBOLÃO DE VAPOR	CAPS	097.031A.025-R1	31	1	ASTM A-234 WPB	2" SCH160	1646/10	912	
TUBOLÃO DE VAPOR	TUBO	097.034A.025-R0	3	4	ASTM A-106 B	3" SCH80 30	732/10	50397003	
TUBOLÃO DE VAPOR	TUBO	097.035A.025-R0	1	1	ASTM A-106 B	4" SCH80 12034	655/10	50424867	
TUBOLÃO DE VAPOR	TUBO	097.035A.025-R0	3	1	ASTM A-106 B	1" SCH80 12034	432/10	50249173	
TUBOLÃO DE VAPOR	TUBO	097.035A.025-R0	2	1	ASTM A-106 B	3/4" SCH80 12034	1049/10	50433637	
TUBOLÃO DE VAPOR	CAPS	097.041A.025-R1	3	1	ASTM A-234 WPB	8" SCH80	615/10	2010/3992	
TUBOLÃO DE VAPOR	CHAPA	097.052A.025-R0	1	2	ASTM A-516 70	2.1/2" X 8,400m²	996/10	458352	
TUBOLÃO DE VAPOR	CHAPA	097.052A.025-R0	1	2	ASTM A-516 70	2.1/2" X 8,400m²	995/10	395959	
TUBOLÃO DE VAPOR	CHAPA	097.051A.025-R0	1	5	ASTM A-516 70	2.1/2" X 76,200m²	996/10	458352	
TUBOLÃO DE VAPOR	CHAPA	097.051A.025-R0	1	5	ASTM A-516 70	2.1/2" X 76,200m²	995/10	395959	
TUBOLÃO DE VAPOR	CHAPA	097.051A.025-R0	1	5	ASTM A-516 70	2.1/2" X 76,200m²	994/10	395959	
TUBOLÃO DE VAPOR	CHAPA	097.051A.025-R0	1	5	ASTM A-516 70	2.1/2" X 76,200m²	993/10	395984	
TUBOLÃO DE VAPOR	CHAPA	097.031A.025-R3	25	1	ASTM A-516 70	3/4" X 0,520M²	1483/08	248917	



CLIENTE : COMASA  
IDENT. DO EQUIP: BGV-90.000  
ORDEM DE SERVIÇO : 4570 2009

COMPONENTE	PARTE	Nº DESENHO	POS.	QTD.	MATERIAL	DIMENSÕES	C.R.	Nº CERTIFICADO
TUBOLÃO DE VAPOR	CHAPA	097.031A.025-R3	22	1	ASTM A-516 570	1.1/4" X 0,340M²	966/09	1887690
GRELHADO	BARRA REDONDA TREFILADA	098.071A.022-R0	3	36	VIDE CERTIF.	Ø 60 X 180	1941/10	405059
GRELHADO	TUBO	098.021A.022-R0	28	2	ASTM A-106 B	12" SCH80 260	340/08	50124266
GRELHADO	TUBO	098.021A.022-R0	59	10	ASTM A-106 B	10" SCH80 260	434/10	50305980
GRELHADO	TUBO	098.021A.022-R0	17	2	ASTM A-106 B	6" SCH80 4073	723/10	50421561
GRELHADO	EIXO	098.040J.022-R0	4	4	VIDE CERTIF.	Ø 60mm X 233 Retif.1045	939/10	7929
GRELHADO	EIXO	098.040I.022-R0	4	4	VIDE CERTIF.	Ø 60mm X 233 Retif.1045	939/10	7929
GRELHADO	EIXO	098.040H.022-R0	4	4	VIDE CERTIF.	Ø 60mm X 233 Retif.1045	939/10	7929
GRELHADO	EIXO	098.040F.022-R0	4	4	VIDE CERTIF.	Ø 60mm X 233 Retif.1045	939/10	7929