

RAB Material ICA & PCA Piping Rev3

Project : Black Utility Mersi Biovac Proindo

SUPPORT MATERIAL - AIR COMPRESSOR ROOM - ICA & PCA MATERIAL - FILTER STERILE

No.	Description / Material	Total Qty	Satuan
A. Pipa			
1	Pipe Seamless 8" SCH 20 SS304	2	Btg
2	Pipe Seamless 2 1/2" SCH 20 SS304	13	Btg
3	Pipe Seamless 1 1/2" SCH 20 SS304	9	Btg
4	Pipe Seamless 1" SCH 20 SS304	22	Btg
5	Pipe Seamless 3/4" SCH 20 SS304	6	Btg
6	Pipa Seamless 1/2" SCH 20 SS304	26	Btg
7	Pipe Seamless 1 1/2" SCH 20 SS316	11	Btg
8	Pipe Seamless 1" SCH 20 SS316	13	Btg
9	Pipe Seamless 3/4" SCH 20 SS316	10	Btg
10	Pipe Seamless 1/2" SCH 20 SS316	8	Btg
11	Pipe Nepple Drat 1/2" 20cm SS304	14	Pc
12	Besi UNP 100 x 50 x 5 x 6 m	6	Btg
B. Fitting & Aksesoris			
1	Blind Flange 8" SCH 20 SS304 JIS10K	10	Pc
2	Blind Flange 1 1/2" JIS 10K SS304	1	Pc
3	Blind Flange 1" JIS 10K SS304	1	Pc
4	Blind Flange 1 1/2" JIS 10K SS316	1	Pc
5	Blind Flange 1" JIS 10K SS316	1	Pc
6	Flange 2 1/2" JIS 10K SS304	2	Pc
7	Flange 1 1/2" JIS 10K SS304	1	Pc
8	Flange 1" JIS 10K SS304	1	Pc
9	Flange 1 1/2" JIS 10K SS316	1	Pc
10	Flange 1" JIS 10K SS316	1	Pc
11	Ball valve 1/2" Thread SS304	33	Pc
12	Ball valve 2 1/2" Thread SS304 1000WOG	44	Pc
13	Ball valve 1 1/2" Thread SS304 1000WOG	5	Pc
14	Ball Valve 1" Thread SS304	10	Pc
15	Ball Valve 3/4" SS304	3	Pc
16	Ball Valve 1/2" SS304	4	Pc
17	Ball Valve 1.5" Thread SS316	1	Pc
18	Ball Valve 1" Thread SS316	22	Pc
19	Ball Valve 3/4" Thread SS316	2	Pc
20	Ball Valve 1/2" SS316	24	Pc
21	Reducer 4" x 2 1/2" SS304	6	Pc
22	Reducer 1.5" x 3/4" SCH 20 DRAT SS304	1	Pc
23	Reducer 1" x 1/2" SS304	8	Pc
24	Reducer 1.5" x 3/4" SCH 20 DRAT SS316	1	Pc
25	Tee reducer 2 1/2" x 1" x 2 1/2" SS304	8	Pc
26	Tee Reducer 1.5" x 3/4" DRAT SS304	3	Pc
27	Tee Reducer 1.5" x 1/2" DRAT SS304	4	Pc
28	Tee Reducer 1.5" x 1" DRAT SS304	3	Pc
29	Tee Reducer 1.5" x 3/4" DRAT SS316	2	Pc
30	Tee Reducer 1.5" x 1/2" DRAT SS316	2	Pc
31	Tee Reducer 1.5" x 1" DRAT SS316	5	Pc

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32	Tee Reducer 3/4" x 1/2" SCH 20 DRAT SS304	4	Pc
33	Tee Reducer 1" x 3/4" SCH 20 DRAT SS304	4	Pc
34	Tee Reducer 1" x 1/2" SCH 20 DRAT SS304	5	Pc
35	Tee Reducer 3/4" x 1/2" SCH 20 DRAT SS316	4	Pc
36	Tee Reducer 1" x 3/4" SCH 20 DRAT SS316	3	Pc
37	Tee Reducer 1" x 1/2" SCH 20 DRAT SS316	8	Pc
38	Tee 1/2" Thread SS304	14	Pc
39	Tee 2 1/2" SCH20 SS304	2	Pc
40	Tee 1/2" SCH 20 SS04	1	Pc
41	Tee 1/2" SS316	16	
42	Tee 1" SS316	14	
43	Tee Drat 1/2" SS304	4	Pc
44	Tee Drat 3/4" SS304	2	Pc
45	Tee Drat 1" SS304	7	Pc
46	Equal Tee 1.5" SCH 20 SS304	4	Pc
47	Equal Tee 1" SCH 20 SS304	3	Pc
48	Equal Tee 3/4" DRAT SS304	3	Pc
49	Equal Tee 1/2" DRAT SS304	3	Pc
50	Equal Tee 1.5" SCH 20 SS316	2	Pc
51	Equal Tee 3/4" DRAT SS316	3	Pc
52	Equal Tee 1/2" DRAT SS316	3	Pc
53	Elbow 1/2" SCH 20 SS304	3	Pc
54	Elbow 2" SCH 20 SS304	6	Pc
55	Elbow 1.5" SCH 20 SS304	19	Pc
56	Elbow 1" SCH 20 SS304	10	Pc
57	Elbow 3/4" DRAT SS304	7	Pc
58	Elbow 1/2" DRAT SS304	25	Pc
59	Elbow 1.5" SCH 20 SS316	5	Pc
60	Elbow 1" SCH 20 SS316	10	Pc
61	Elbow 3/4" DRAT SS316	7	Pc
62	Elbow 1/2" DRAT SS316	15	Pc
63	Elbow 1/2" Thread SS304	8	Pc
64	Elbow 2 1/2" SCH20 SS304	33	Pc
65	Sock Drat Dalam 1/2" SS304	23	Pc
66	Vlok Ring 3/4" x 1/2" SS304	2	Pc
67	Vlok Ring 1" x 1/2" SS304	7	Pc
68	Pressure Regulator 3 Bar	5	Pc
69	Pressure Gauge Connection 1/2" Wiebrock 0 - 10 Bar	47	Pc
70	Temperature Gauge Connection 1/2" Wiebrock	5	Pc
71	FERRULE SANITARY SS304L 1" x 1" DRAT DALAM	4	Pc
72	FERRULE SANITARY SS304L 1" x 3/4" DRAT DALAM	1	Pc
73	FERRULE SANITARY SS304L 1" x 1/2" DRAT DALAM	12	Pc
74	FERRULE SANITARY SS316L 1" x 1" DRAT DALAM	4	Pc
75	FERRULE SANITARY SS316L 1" x 3/4" DRAT DALAM	1	Pc
76	FERRULE SANITARY SS316L 1" x 1/2" DRAT DALAM	12	Pc

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No.	Description / Material	Total Qty	Satuan
77	Clamp Ferrule SS304 1 - 1 1/2"	30	Pc
78	Clamp Ferrule SS316 1 - 1 1/2"	30	Pc
79	Clamp Ferrule 1"	20	Pc
80	Clamp Ferrule 2 1/2" SS304	12	Pc
81	Clamp Pipa Holder Sanitary SS 304 1"	10	Pc
82	Clamp Pipa Holder Sanitary SS 304 3/4"	4	Pc
83	Clamp Pipa Holder Sanitary SS 304 1/2"	24	Pc
84	Seal Gasket Teflon Tri Clamp Ferrule 1"	120	Pc
85	Long Drat M10 x 3 meter Galvanis	400	Pc
86	Klem gantung pipa 1 1/2"	200	Pc
87	Klem gantung pipa 1"	100	Pc
88	Klem gantung pipa 3/4"	100	Pc
89	Dynaset M10	400	Pc
90	Dynabolt M10	20	Pc
91	Baut M16 x 100 mm + Mur + Ring 2 SS304	80	Pc
92	Gasket Packing Flange 4" EPDM	12	Pc
93	Gasket Packing Flange 1,5" EPDM	10	Pc
94	U-Bolt 2 1/2" x M8 SS 304	30	Pc
95	Siku 50 x 50 x 2,3 mm Galvanis	5	Btg

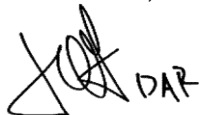
C. Filter Steril 0,22 um

1	Sanitary Air Filter 10" Element 0,22 um sterile grade	13	Pc
2	Sanitary Air Filter Housing 10" SS316 Clamp Ferrule 1" Connection	13	Pc

D. Consumable alat kerja

1	Mata Gerinda Potong 14"	7	pcs
2	Mata Gerinda Batu 4"	5	Kotak
3	Kawat Las SS304 E308 2mm nikko steel	5	Kg
4	Kawat Las SS316 NSN-316 2mm nikko steel	5	Kg
5	Kawat las TIG / filler rod ER304	3	kg
6	Kawat las TIG / filler rod ER316L	3	kg
7	Amplas 150	1	Roll
8	Mata Bor Beton 10 mm	3	Pc
9	Gas Argon	2	Tabung
10	Sealtape 1/2"	2	kotak

Dibuat oleh,



Diki Alamsyah
SPV Civil & Project

Diperiksa oleh,



Bayu Seto Respati
Engineering Manager

Disetujui oleh,



Dyah Arum M.
Site Head