

Razavi Yeast Company Expansion Project
PHASE IV
شیرهای پروانه ای

ردیف	شرح	محل نصب	نوع شیر	نوع اتصال	Medium	فشار کاری (bar)	Body	Flap	Material	سایز	PN	Valve leakage class (ANSI)	نوع حرکت شیر	Control Mode	Normally Close/Open	توضیحات
1	Phosphate Solution Tank Main Inlet Valve	02-T-170	Butterfly Valve	Wafer Type	PS	1/5	GGG25	1/571	EPDM	DN80	PN10	DN80	IV	On/Off	Close	
2	Phosphate Solution Tank Main Consumption Valve High	02-T-170	Butterfly Valve	Wafer Type	PS	1	GGG25	1/571	EPDM	DN80	PN10	DN80	IV	On/Off	Close	
3	Phosphate Solution Tank Main consumption Valve Low	02-T-170	Butterfly Valve	Wafer Type	PS	1	GGG25	1/571	EPDM	DN80	PN10	DN80	IV	On/Off	Close	
4	Phosphate Solution Tank Drain Valve	02-T-170	Butterfly Valve	Wafer Type	PS	0/5	GGG25	1/571	EPDM	DN100	PN10	DN100	IV	None	N/A	
5	Raw Molasses	03-T-155	Butterfly Valve	Wafer Type	RM	2	GGG25	1/571	EPDM	DN150	PN10	DN150	IV	On/Off	Close	
6	Cleaning	03-T-155	Butterfly Valve	Wafer Type	CA	6	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
7	Cleaning	03-T-155	Butterfly Valve	Wafer Type	PW	6	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
8	Cleaning	03-T-155	Butterfly Valve	Wafer Type	HW	6	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
9	Molasses Solution Sludge	03-T-155	Butterfly Valve	Wafer Type	SL	1	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
10	Sugar recovery Solution to Molasses Tank	03-T-155	Butterfly Valve	Wafer Type	SL	2	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
11	Process Water	05-T-141	Butterfly Valve	Wafer Type	PW	3	GGG25	1/571	EPDM	DN40	PN10	DN40	IV	On/Off	Close	
12	Antifoam	05-T-141	Butterfly Valve	Wafer Type	AF	0/5	GGG25	1/571	EPDM	DN40	PN10	DN40	IV	On/Off	Close	
13	Antifoam Return	05-T-141	Butterfly Valve	Wafer Type	AF	0/5	GGG25	1/571	EPDM	DN25	PN10	DN25	IV	On/Off	Close	
14	Antifoam Cleaning	05-T-141	Butterfly Valve	Wafer Type	HW	3	GGG25	1/571	EPDM	DN25	PN10	DN25	IV	On/Off	Close	
15	Process Water	05-T-151	Butterfly Valve	Wafer Type	PW	3	GGG25	1/571	EPDM	DN40	PN10	DN40	IV	On/Off	Close	
16	Soda Ash Solution	05-T-151	Butterfly Valve	Wafer Type	PH	0/5	GGG25	1/571	EPDM	DN40	PN10	DN40	IV	On/Off	Close	
17	Soda Ash Solution Return	05-T-151	Butterfly Valve	Wafer Type	PH	0/5	GGG25	1/571	EPDM	DN25	PN10	DN25	IV	On/Off	Close	
18	Process Water	05-T-164	Butterfly Valve	Wafer Type	PW	3	GGG25	1/571	EPDM	DN40	PN10	DN40	IV	On/Off	Close	
19	Nitrogen Solution	05-T-164	Butterfly Valve	Wafer Type	NS	0/5	GGG25	1/571	EPDM	DN40	PN10	DN40	IV	On/Off	Close	
20	Nitrogen Solution Return	05-T-164	Butterfly Valve	Wafer Type	NS	0/5	GGG25	1/571	EPDM	DN25	PN10	DN25	IV	On/Off	Close	
21	Process Water	05-T-174	Butterfly Valve	Wafer Type	PW	3	GGG25	1/571	EPDM	DN40	PN10	DN40	IV	On/Off	Close	
22	Phosphat Solution	05-T-174	Butterfly Valve	Wafer Type	PS	0/5	GGG25	1/571	EPDM	DN40	PN10	DN40	IV	On/Off	Close	
23	Phosphat Solution Return	05-T-174	Butterfly Valve	Wafer Type	PS	0/5	GGG25	1/571	EPDM	DN25	PN10	DN25	IV	On/Off	Close	
24	Mulky (PW, HW, CA, ST)	05-T-124	Butterfly Valve	Wafer Type	PW, HW, ST	6	GGG25	1/571	EPDM	DN125	PN15	DN125	IV	On/Off	Close	
25	Fermentation Wort	05-T-124	Butterfly Valve	Wafer Type	FW	15	GGG25	1/571	EPDM	DN125	PN15	DN125	IV	None	N/A	
26	Process Air	05-T-124	Butterfly Valve	Flanged	PA	3	GGG25	1/571	EPDM	DN400	PN10	DN400	IV	None	N/A	
27	Yeast Cream (Mother Yeast)	05-T-124	Butterfly Valve	Wafer Type	YC	3	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	On/Off	Close	
28	Cleaning Outlet	05-D-724	Butterfly Valve	Wafer Type	CA, ST, PW	6	GGG25	1/571	EPDM	DN150	PN15	DN150	IV	On/Off	Close	
29	Cleaning Inlet	05-D-724	Butterfly Valve	Wafer Type	CA	6	GGG25	1/571	EPDM	DN125	PN15	DN125	IV	On/Off	Close	
30	Process Water Inlet	05-D-724	Butterfly Valve	Wafer Type	PW	3	GGG25	1/571	EPDM	DN125	PN15	DN125	IV	On/Off	Close	
31	Header Outlet	05-D-724	Butterfly Valve	Wafer Type	PW, HW, ST	6	GGG25	1/571	EPDM	DN125	PN15	DN125	IV	On/Off	Close	
32	Cleaning	05-T-124	Butterfly Valve	Wafer Type	CA, ST, PW	6	GGG25	1/571	EPDM	DN50	PN15	DN50	IV	On/Off	Close	
33	Cleaning	05-T-124	Butterfly Valve	Wafer Type	CA, ST, PW	6	GGG25	1/571	EPDM	DN50	PN15	DN50	IV	On/Off	Close	
34	Cooling Water	05-H-424	Butterfly Valve	Wafer Type	CW	3	GGG25	1/571	EPDM	DN150	PN10	DN150	IV	On/Off	Close	
35	Cooling Water Return	05-H-424	Butterfly Valve	Wafer Type	CW	3	GGG25	1/571	EPDM	DN250	PN10	DN250	IV	On/Off	Close	
36	Heat Exchanger Drain Valve, Service Side	05-H-424	Butterfly Valve	Wafer Type	CW, NA	3	GGG25	1/571	EPDM	DN25	PN10	DN25	IV	On/Off	Close	
37	Heat Exchanger Vent Valve, Service Side	05-H-424	Butterfly Valve	Wafer Type	CW, NA	3	GGG25	1/571	EPDM	DN15	PN10	DN15	IV	On/Off	Close	
38	Heat Exchanger Drain Valve, Process Side	05-H-424	Butterfly Valve	Wafer Type	CW, NA	2/5	GGG25	1/571	EPDM	DN15	PN10	DN15	IV	On/Off	Close	
39	Fermentation drain Valve	05-T-124	Butterfly Valve	Wafer Type	FW, PW, ST	2	GGG25	1/571	EPDM	DN100	PN15	DN100	IV	On/Off	Close	
40	Process Water to Molasses Solution line	05-T-124	Butterfly Valve	Wafer Type	FW, PW, ST	6	GGG25	1/571	EPDM	DN20	PN15	DN20	IV	On/Off	Close	
41	05-D-724 to Molasses Solution Line	05-T-124	Butterfly Valve	Wafer Type	PW, ST, CA	6	GGG25	1/571	EPDM	DN20	PN15	DN20	IV	On/Off	Close	
42	05 to 06 valve, 05-P-324 Discharge Side	05-T-124	Butterfly Valve	Wafer Type	FW, PW, ST, CA	6	GGG25	1/571	EPDM	DN150	PN10	DN150	IV	On/Off	Close	
43	05 to 06 valve, 05-P-324 Suction Side	05-T-124	Butterfly Valve	Wafer Type	FW, PW, ST, CA	6	GGG25	1/571	EPDM	DN150	PN10	DN150	IV	On/Off	Close	
44	05 to 06 valve, main line	05-T-124	Butterfly Valve	Wafer Type	FW, PW, ST, CA	6	GGG25	1/571	EPDM	DN150	PN10	DN150	IV	On/Off	Close	
45	05 to 06 valve, main line	05-T-124	Butterfly Valve	Wafer Type	FW, PW, ST, CA	6	GGG25	1/571	EPDM	DN150	PN10	DN150	IV	On/Off	Close	
46	05 to 06 drain valve	05-T-124	Butterfly Valve	Wafer Type	FW, PW, ST, CA	3	GGG25	1/571	EPDM	DN20	PN10	DN20	IV	On/Off	Close	
47	05 to 10 Return Valve	05-T-124	Butterfly Valve	Wafer Type	PW, CA	3	GGG25	1/571	EPDM	DN150	PN10	DN150	IV	On/Off	Close	
48	10-T-103 Return Valve	10-T-103	Butterfly Valve	Wafer Type	PW, CA	2	GGG25	1/571	EPDM	DN150	PN10	DN150	IV	On/Off	Close	
49	Yeast Cream Tank, Main Valve	07-T-115	Butterfly Valve	Wafer Type	YC, PW, CA, ST	1	GGG25	1/571	EPDM	DN80	PN10	DN80	IV	None	N/A	
50	Yeast Cream Tank, Consumption Valve	07-T-115	Butterfly Valve	Wafer Type	YC, PW, CA, ST	1	GGG25	1/571	EPDM	DN80	PN10	DN80	IV	None	N/A	
51	Cleaning	07-T-115	Butterfly Valve	Wafer Type	PW, CA	6	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
52	Hot Water Valve	07-T-115	Butterfly Valve	Wafer Type	HW	3	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
53	Process Water Valve	07-T-115	Butterfly Valve	Wafer Type	PW	6	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
54	IW, Jacket 1, Inlet	07-T-115	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	On/Off	Close	
55	IW, Jacket 1, Outlet	07-T-115	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	On/Off	Close	
56	IW, Jacket 1, Vent	07-T-115	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN15	PN10	DN15	IV	On/Off	Close	
57	IW, Jacket 1, Drain	07-T-115	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN25	PN10	DN25	IV	On/Off	Close	
58	IW, Jacket 2, Inlet	07-T-115	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	On/Off	Close	
59	IW, Jacket 2, Outlet	07-T-115	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	On/Off	Close	
60	IW, Jacket 2, Vent	07-T-115	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN15	PN10	DN15	IV	On/Off	Close	
61	IW, Jacket 2, Drain	07-T-115	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN25	PN10	DN25	IV	On/Off	Close	
62	Yeast Cream Tank drain	07-T-115	Butterfly Valve	Wafer Type	YC, PW, CA	1	GGG25	1/571	EPDM	DN50	PN10	DN50	IV	None	N/A	
63	Yeast Cream Tank, Main Valve	07-T-115	Butterfly Valve	Wafer Type	YC, PW, CA, ST	1	GGG25	1/571	EPDM	DN80	PN10	DN80	IV	None	N/A	
64	Yeast Cream Tank, Consumption Valve	07-T-115	Butterfly Valve	Wafer Type	YC, PW, CA, ST	1	GGG25	1/571	EPDM	DN80	PN10	DN80	IV	None	N/A	
65	Cleaning	07-T-116	Butterfly Valve	Wafer Type	PW, CA	6	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
66	Hot Water Valve	07-T-116	Butterfly Valve	Wafer Type	HW	3	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
67	Process Water Valve	07-T-116	Butterfly Valve	Wafer Type	PW	6	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
68	IW, Jacket 1, Inlet	07-T-116	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	On/Off	Close	
69	IW, Jacket 1, Outlet	07-T-116	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	On/Off	Close	
70	IW, Jacket 1, Vent	07-T-116	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN15	PN10	DN15	IV	On/Off	Close	
71	IW, Jacket 1, Drain	07-T-116	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN25	PN10	DN25	IV	On/Off	Close	
72	IW, Jacket 2, Inlet	07-T-116	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	On/Off	Close	
73	IW, Jacket 2, Outlet	07-T-116	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	On/Off	Close	
74	IW, Jacket 2, Vent	07-T-116	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN15	PN10	DN15	IV	On/Off	Close	
75	IW, Jacket 2, Drain	07-T-116	Butterfly Valve	Wafer Type	IW	3	GGG25	1/571	EPDM	DN25	PN10	DN25	IV	On/Off	Close	
76	Yeast Cream Tank drain	07-T-116	Butterfly Valve	Wafer Type	YC, PW, CA	1	GGG25	1/571	EPDM	DN50	PN10	DN50	IV	None	N/A	
77	Process Water for rinsing	07-T-135	Butterfly Valve	Wafer Type	PW	3	GGG25	1/571	EPDM	DN50	PN10	DN50	IV	None	N/A	
78	OP	07-T-135	Butterfly Valve	Wafer Type	CA	6	GGG25	1/571	EPDM	DN50	PN15	DN50	IV	None	N/A	
79	Nitric Acid Valve	07-T-135	Butterfly Valve	Wafer Type	CA	3	GGG25	1/571	EPDM	DN50	PN15	DN50	IV	None	N/A	
80	Main Consumption Valve	07-T-135	Butterfly Valve	Wafer Type	PW	6	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
81	Tank Main Drain Valve	07-T-135	Butterfly Valve	Wafer Type	PW	1	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
82	Pump Inlet Valve	07-P-335	Butterfly Valve	Wafer Type	PW	1	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
83	Pump Outlet Valve	07-P-335	Butterfly Valve	Wafer Type	PW	3	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
84	Valve Toward Circulation	07-P-335	Butterfly Valve	Wafer Type	PW	3	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
85	Valve Toward Fermenters	07-P-335	Butterfly Valve	Wafer Type	PW	3	GGG25	1/571	EPDM	DN65	PN15	DN65	IV	None	N/A	
86	Moder Yeast Drain Valve, Suction Side	07-P-335	Butterfly Valve	Wafer Type	PW	1	GGG25	1/571	EPDM	DN15	PN10	DN15	IV	None	N/A	
87	Moder Yeast Drain Valve, Pressure Side	07-P-335	Butterfly Valve	Wafer Type	PW	3	GGG25	1/571	EPDM	DN15	PN10	DN15	IV	None	N/A	
88	Caustic Soda	10-T-103	Butterfly Valve	Wafer Type												