

VALSER ENGINEERING & SERVICES SDN BHD

VALSER STOCK LIST (VALVES)

JUNE (2018)

KUKA VALVE

					MATERIAL							
NO	BRAND	ITEM CODE	SIZE	RATING	BODY MATERIAL	BALL/STEM	SEAT MATERIAL	ENP /NO ENP	END CONNECTION	BORE	MODEL	END JUNE BAL
1	KUKA	*KKV02-15-023	2"	150#	A216 WCB	A351 CF8M 630	PTFE	NO ENP	RF	REDUCE	CCA 15 BG BN	0
2	KUKA	TBA	2"	300#	WCB + ENP	F316 /F316	PTFE	WITH ENP	RF	REDUCE	CAA 30 SG LN	28
3	KUKA	TBA	2"	300#	WCB	CF8M / F316	PEEK	NO ENP	RF	REDUCE	CAA 30 BK 050	1
4	KUKA	*KKV02-60-017	2"	600#	A351 CF8M	A351 CF8M 630	DEVLON	NO ENP	RF	REDUCE	CGA 60 DV BN	2
5	KUKA	*KKV02-60-034	2"	600#	A351 CF8M	TBA	PTFE	NO ENP	RF	REDUCE	CGA 60 DG BN	1
6	KUKA	TBA	2"	900#	LF2 + ENP	A351 CF8M 630	DEVLON	WITH ENP	RF	FULL	CHA 90 LV 050	0
7	KUKA	*KKV02-90-005	2"	900#	A350 LF2 + NO ENP	F316 / 630	DEVLON	NO ENP	RF	REDUCE	CIA 90 LV BN	0
8	KUKA	*KKV03-15-001	3"	150#	A216 WCB + NO ENP	A351 CF8M 316	PTFE	NO ENP	RF	REDUCE	CAA 15 BG LN	2
9	KUKA	*KKV03-15-002	3"	150#	A216 WCB + NO ENP	A351 CF8M 316	PTFE	NO ENP	RF	REDUCE	CAA 15 BG BN	7
10	KUKA	*KKV03-15-008	3"	150#	A352 LCC + NO ENP	A351 CF8M 316	PTFE	NO ENP	RF	FULL	CBA 15 LG LN	5
11	KUKA	*KKV03-15-010	3"	150#	A351 CF8M + ENP	A351 CF8M 316	PTFE	NO ENP	RF	REDUCE	CCA 15 DG LN	1
12	KUKA	*KKV03-15-011	3"	150#	A216 WCB + NO ENP	A351 CF8M 316	PTFE	NO ENP	RF	REDUCE	CCA 15 BG BN	2
13	KUKA	*KKV03-30-004	3"	300#	A216 WCB + NO ENP	A351 CF8M 316	PTFE	NO ENP	RF	REDUCE	CGA 30 BG BN	1
14	KUKA	*KKV03-60-013	3"	600#	A352 LCC	316 SS 316	DEVLON	NO ENP	RF	FULL	CFA 60 LV LN	3
15	KUKA	*KKV03-60-014	3"	600#	A216 LCC + ENP	A351 CF8M 630	DEVLON	WITH ENP	RF	REDUCE	CGA 60 LV BN	1
16	KUKA	*KKV03-60-019	3"	600#	A351 CF8M	A182 F316	DEVLON	NO ENP	RF	FULL	CFA 60 DV LN	3
17	KUKA	*KKV03-60-001	3"	600#	A216 WCB	TBA	PEEK	NO ENP	RF	REDUCE	CGA 60 BK BN	1
18	KUKA	*KKV03-60-015	3"	600#	A216 WCB + NO ENP	A351 CF8M 316	DEVLON	NO ENP	RF	FULL	CFA 60 BV BN	1
19	KUKA	*KKV03-60-016	3"	600#	A216 WCB + NO ENP	A351 CF8M 630	DEVLON	NO ENP	RF	REDUCE	CGA 60 BV BN	1
20	KUKA	*KKV03-90-007	3"	900#	A105 + NO ENP	316 SS 630	DEVLON	NO ENP	RF	FULL	CHA 90 BV GN	2
21	KUKA	*KKV04-15-002	4"	150#	A352 LCC + NO ENP	A351 CF8M 316	PTFE	NO ENP	RF	FULL	CBA 15 LG LN	5
22	KUKA	*KKV04-15-002 (Baru)	4"	150#	A352 LCC + NO ENP	A351 CF8M 316	PTFE	NO ENP	RF	FULL	CBA 15 LG LN	2
23	KUKA	*KKV04-15-004	4"	150#	C95800 (AL-BRONZE) + NO ENP	C95800 (AL-BRONZE)	N04400	NO ENP	RF	REDUCE	CCA 15 RG LN	2
24	KUKA	*KKV04-15-010	4"	150#	A216 WCB + NO ENP	A351 CF8M 630	PTFE	NO ENP	RF	REDUCE	CCA 15 BG LN	1
25	KUKA	TBA	4"	150#	A351 CF8M	F316 / F316	PTFE	NO ENP	RF	FULL	CBA 15 DG 100	2
26	KUKA	TBA	4"	150#	WCB	CF8M / 316	PTFE	NO ENP	RF	REDUCE	CAA 15 BG 100	1
27	KUKA	*KKV04-30-004	4"	300#	A216 WCB + NO ENP	A351 CF8M 316	PTFE	NO ENP	RF	FULL	CBA 30 SG BN	3
28	KUKA	*KKV04-90-001	4"	900#	A350 LF2 + NO ENP	F316 / SS 630	DEVLON	NO ENP	RF	REDUCE	CIA 90 LV GN	2
29	KUKA	*KKV04-90-006	4"	900#	A105 + NO ENP	A351 CF8M 630	DEVLON	NO ENP	RF	REDUCE	CIA 90 BV GN	1
30	KUKA	*KKV06-30-004	6"	300#	A216 WCB + NO ENP	A351 CF8M 630	PTFE	NO ENP	RF	REDUCE	CGA30 BG BN	8
31	KUKA	*KKV06-60-007	6"	600#	A216 WCB + NO ENP	A351 CF8M 630	DEVLON	NO ENP	RF	REDUCE	CGA 60 BV BN	3
32	KUKA	*KKV08-15-003	8"	150#	A351 CF8M	TBA	PTFE	NO ENP	RF	FULL	CBA 15 DG GN	4
33	KUKA	*KKV08-30-003	8"	300#	A216 WCB + NO ENP	A351 CF8M 630	PTFE	NO ENP	RF	REDUCE	CGA 30 BG BN	2
34	KUKA	*KKV08-60-002	8"	600#	A216 WCB + NO ENP	A351 CF8M 630	DEVLON	NO ENP	RF	REDUCE	CGA 60 BV BN	1
35	KUKA	TBA	8"	600#	WCB	CF8M 316	DEVLON	NO ENP	RF	FULL	CFA 60 BV BN	1
36	KUKA	*KKV08-90-001	8"	900#	A105 + NO ENP	A351 CF8M 630	DEVLON	NO ENP	RF	FULL	CHA 90 BV BN	3
37	KUKA	TBA	8"	900#	A105 + NO ENP	A351 CF8M 630	DEVLON	NO ENP	RF	REDUCE	CIA 90 BV BN	1

38	KUKA	TBA	10"	600#	F316	F316 / 630	DEVLON	NO ENP	RF	REDUCE	CIA 60 DV BN	1
39	KUKA	*KKV10-90-001	10"	900#	A350 LF2 + ENP	CF8M / 630	DEVLON	WITH ENP	RF	FULL	CHA 90 LV BN	1
40	KUKA	*KKV6Q-30-001	1 1/2"	300#	A351 CF8M	CF3M / 630	PTFE	NO ENP	RF	FULL	CBA 30 DG BN	4
41	KUKA	*KKV6Q-15-004	1 1/2"	150#	A216 WCB	F316 / F316	PTFE	NO ENP	RF	REDUCE	CCA 15 BG LN	8
												118

DELLA VALVES

												JUNE.2017
												MATERIAL
NO	BRAND	ITEM CODE	SIZE	RATING	BODY MATERIAL	BALL/STEM	SEAT MATERIAL	ENP /NO ENP	END CONNECTION	BORE	TYPE	END JUNE BAL
1	DELLA	*DEV6Q-15-002	1 1/2"	150#	F316	F316	F316/PTFCG	NO ENP	RF	FULL	BALL	1
2	DELLA	*RPV06-15-001	6"	150#	A350 LF2 CL.1	F316/F51	F316/PTFCG	NO ENP	RF	FULL	BALL	1
3	DELLA	NILL	6"	600#	F316	F316/A564 TP630	F316/PTFCG	NO ENP	RF	FULL	BALL	1
4	DELLA	NILL	3"	1500#	A105N	F6A CL2 / 564 TP 630	F6A	NO ENP	RTJ	FULL	BALL	7
5	DELLA	NILL	3"	600#	A105N	F316 / A564 TP 630	F316/PTFCG	NO ENP	RF	REDUCE	BALL	2
6	DELLA	NILL	3"	150#	F316L	F316 / F316	F316/PTFCG	NO ENP	RF	FULL	BALL	1
7	DELLA	NILL	2"	1500#	A105N	F6A CL2 / 564 TP 630	DEVLON	NO ENP	RTJ	FULL	BALL	0
8	DELLA	NILL	2"	600#	A105N	A182/F316/XM 19	F316/RPTFE	NO ENP	RF	REDUCE	BALL	1
9	DELLA	NILL	2"	600#	F316	A182/F316/XM 19	F316/DEVLON	NO ENP	RF	REDUCE	BALL	1
10	DELLA	NILL	2"	150#	F316	F316/A564 TP630	F316/PTFCG	NO ENP	RF	FULL	BALL	1
11	DELLA	NILL	2"	300#	A105N	F316/INC 718	F316/PTFCG	NO ENP	RF	REDUCE	BALL	1
12	DELLA	NILL	8"	300#	F51	F51	F51/DEVLON	NO ENP	RF	REDUCE	BALL	1
												18

LCM VALVES

MATERIAL												JUNE.2018
NO	BRAND	ITEM CODE	SIZE	RATING	BODY MATERIAL	BALL/STEM	SEAT MATERIAL	ENP /NO ENP	END CONNECTION	BORE	MODEL	END JUNE BAL
1	LCM	*LCV06-51-001	6"	1500#	A105N	F51	F51+PEEK	NO ENP	RTJ	FB		2
2	LCM	TBA	4"	300#	A350 LF2	F51	DEVLON	NO ENP	RF	FB		1
3	LCM	TBA	3"	600#	A350 LF2	F316	DEVLON	NO ENP	RF	FB		1
4	LCM	TBA	6"	600#	A350 LF2	F51	F51+DEVLON	NO ENP	RF	FB		3
5	LCM	*LCV03-90-001	3"	900#	A351 CF8M F316L	F 316	PEEK	NO ENP	RTJ	FB		1
6	LCM	TBA	2"	300#	LF2 CL.1	F316/17-4-PH	F316 + DEVLON	NO ENP	RF	FB		1
7	LCM	*LCV01-15-001	1"	150#	A350 LF2	F316	DEVLON	NO ENP	RF	FB		3
8	LCM	*LCV08-60-001	8"	600#	A350 LF2	F51	F51+DEVLON	NO ENP	RF	FB		0
9	LCM	*LCV03-30-001	3"	300#	A350 LF2	F316	DEVLON	NO ENP	RF	FB		4
												16

OTHER BRANDS

MATERIAL												JUNE.2018
NO	BRAND	ITEM CODE	SIZE	RATING	BODY MATERIAL	BALL/STEM	SEAT MATERIAL	ENP /NO ENP	END CONNECTION	BORE	TYPE	END JUNE BAL
1	PBV USA	*RPV10-60-001	10"	600#	A350 LF2	A351 CF8M	NYLON	NO ENP	RF	FULL	BALL	1
2	VALVOLE	NILL	14"	900#	LF2	LF2	LF2	NO ENP	RTJ	REDUCE	BALL	1
3	SHIPHAM	NILL	1"	150#	ASTM B148 C95800	ASTM B150 C63200	GLASS FILLED PTFE	NO ENP	RF	REDUCE	BALL	0
4	SHIPHAM	NILL	1.5"	150#	ASTM B148 C95400	ASTM B150 C63200	INTEGRAL SEAT	NO ENP	FF	FULL	GATE	4
5	SHIPHAM	NILL	4"	150#	ASTM B148 C95800	DISC / ASTM B150 C63200	RPTFE	NO ENP	FF	FULL	BUTTERFLY	0
6	SHIPHAM	NILL	4"	150#	ASTM B148 C95800	DISC / ASTM B150 C63200	INTEGRAL SEAT	NO ENP	FF	FULL	GLOBE	1
7	SHIPHAM	NILL	2"	150#	UNC C95800	UNC C95800	DEVLON	NO ENP	RF	REDUCE	BALL	1
8	SHIPHAM	NILL	2"	150#	ASTM B148 C95400	ASTM B150 C63200	INTEGRAL SEAT	NO ENP	FF	FULL	GATE	20
9	SHIPHAM	NILL	2"	150#	ASTM B148 C95800	DISC / ASTM B150 C63200	INTEGRAL SEAT	NO ENP	FF	FULL	GLOBE	1
10	SHIPHAM	*SHV03-15-001	3"	150#	UNC C95800	UNC C95800	DEVLON	NO ENP	RF	REDUCE	BALL	1
11	VELAN	*ATV3Q-15-001	3/4"	150#	A351 CF8M	A182 SS316	PTFE	NO ENP	RF	FULL	BALL	14
12	KITZ	NILL	1/2"	150#	CF8M	F316 / 316	H-PTFE	NO ENP	RF	REDUCE	BALL	3
13	KITZ	NILL	1"	150#	WCB	SS316 / SS 316	H-PTFE	NO ENP	RF	FULL	BALL	1
14	KITZ	NILL	3"	150#	WCB	SS 316	H-PTFE	NO ENP	RF	FULL	BALL	1
15	KITZ	NILL	4"	150#	ASTM A216 GR WCB	ASTM A276TYPE 316	PTFE	NO ENP	RF	REDUCE	BALL	1
16	KEAMY QUICK VALVE	NILL	12"	900#	ASTM A350 LF2+INCONEL 625	F51+ENP	F51+DEVLON	WITH ENP	RTJ	FULL	BALL	1
17	ZA.VE.RO	*ZRV18-90-001	18"	900#	A350 LF2 + ENP	F316 / 17-4PH	DEVLON	WITH ENP	RF	REDUCE	BALL	1
18	ZA.VE.RO	*ZRV18-90-001	18"	900#	A350 LF2 + ENP	F316 / 17-4PH	DEVLON	WITH ENP	RF	REDUCE	BALL	1
19	VIAR VALVOLE	NILL	8"	150#	ASTM A105	ASTM A182 F316/ASTM A479 S31803	ASTM A182 F316+RPTFE	NO ENP	FF	REDUCE	BALL	0
20	VIAR VALVOLE	NILL	1/2"	150#	A105N	F316L + TCC / XM 19	F316L + TCC	NO ENP	RF	FULL	BALL	3
21	VIAR VALVOLE	NILL	1/2"	150#	LF2	F316L / XM 19	RPTFE	NO ENP	RF	FULL	BALL	4
22	VIAR VALVOLE	NILL	1/2"	1500#	A105N	F51 / F51	PEEK	NO ENP	RF	FULL	BALL	1133

23	VIAR VALVOLE	NILL	1/2"	300#	F316L	F316L / XM 19	RPTFE	NO ENP	RF	FULL	BALL	2
24	VIAR VALVOLE	NILL	3/4"	150#	A105N A6641	F316L / F51	F316L + RPTFE	NO ENP	RF	REDUCE	BALL	2
25	VIAR VALVOLE	NILL	3/4"	150#	A105N	F316L / XM 19	RPTFE	NO ENP	RF	REDUCE	BALL	1
26	VIAR VALVOLE	NILL	3/4"	150#	F316L	F316L / XM 19	RPTFE	NO ENP	RF	REDUCE	BALL	1
27	VIAR VALVOLE	NILL	3/4"	150#	F316L	F316L / XM 19	KEL-F	NO ENP	RF	REDUCE	BALL	1
28	VIAR VALVOLE	NILL	3/4"	600#	LF2	F316L / XM 19	RPTFE	NO ENP	RF	REDUCE	BALL	6
29	VIAR VALVOLE	NILL	3/4"	600#	A105N	F316L / XM 19	RPTFE	NO ENP	RF	REDUCE	BALL	7
30	VIAR VALVOLE	NILL	3/4"	600#	F316L	F316L / XM 19	KEL-F	NO ENP	RF	REDUCE	BALL	26
31	VIAR VALVOLE	NILL	1"	150#	A105N	F316L / XM 19	RPTFE	NO ENP	RF	REDUCE	BALL	1
32	VIAR VALVOLE	NILL	1 1/2"	150#	F316L	F316L / XM 19	RPTFE	NO ENP	RF	FULL	BALL	1
33	VIAR VALVOLE	NILL	1 1/2"	150#	F316L	F316L + TCC/XM 19	F316L + TCC	NO ENP	RF	REDUCE	BALL	1
34	VIAR VALVOLE	NILL	2"	1500#	LF2	F51 / 17-4 PH	F51	NO ENP	RTJ	REDUCE	BALL	0
35	VIAR VALVOLE	NILL	2"	1500#	A105N	F51 / F51	NYLON PA 12	NO ENP	RF	FULL	BALL	306
36	VIAR VALVOLE	NILL	2"	2500#	A105N	F51 / F51	NYLON PA 12	NO ENP	RF	REDUCE	BALL	0
37	VIAR VALVOLE	NILL	4"	1500#	LF2	F51 / 17-4 PH	F51	NO ENP	RTJ	REDUCE	BALL	1
38	VIAR VALVOLE	NILL	6"	1500#	LF2	F51 / 17-4 PH	F51	NO ENP	RTJ	REDUCE	BALL	1
39	VIAR VALVOLE	NILL	12"	600#	A105N	F316 / 17-4PH	DEVLON	NO ENP	RF	REDUCE	BALL	0
40	VIAR VALVOLE	NILL	12"	150#	A105N	F316 / 17-4PH	PEEK	NO ENP	RF	REDUCE	BALL	3
41	SFEROVA	NILL	6"	300#	ASTM A350 LF2 LOW TEMP C/STEEL	ASTM A182 F316/AISI A182 316 SS	DELIRIN (POM)	NO ENP	RF	FULL	BALL	1

NEW KUKA VALVE

					MATERIAL								JUNE.2018
NO	BRAND	ITEM CODE	SIZE	RATING	BODY MATERIAL	BALL/STEM	SEAT MATERIAL	ENP /NO ENP	END CONNECTION	BORE	MODEL	END JUNE BAL	
1	NEW KUKA	*KKV01-15-013	1"	150#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CBA 15 LE 025 LN	13	
2	NEW KUKA	TBA	1"	300#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CBA 30 LE 025 LN	17	
3	NEW KUKA	TBA	1"	600#	A890-4A	A182 F51	DEVLON	NO ENP	RF	FULL	CBA 60 HV 025 LN	3	
4	NEW KUKA	TBA	1"	900#	F51	F51	DEVLON	NO ENP	UNMACHINED	FULL	CBA 90 HV 025 LN	4	
5	NEW KUKA	*KKV02-15-027	2"	150#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CFA 15 LE 050 BN	0	
6	NEW KUKA	*KKV02-60-011	2"	600#	A890-4A	A182 F51	DEVLON	NO ENP	RF	FULL	CFA 60 HV 050 BN	3	
7	NEW KUKA	TBA	2"	900#	F51	F51	DEVLON	NO ENP	UNMACHINED	FULL	CHA 90 HV 050 BN	3	
8	NEW KUKA	*KKV03-15-015	3"	150#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CFA 15 LE 080 BN	7	
9	NEW KUKA	*KKV03-30-008	3"	300#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CFA 30 LE 080 BN	2	
10	NEW KUKA	*KKV03-60-008	3"	600#	A890-4A	A182 F51	DEVLON	NO ENP	RF	FULL	CFA 60 HV 080 BN	3	
11	NEW KUKA	*KKV03-90-003	3"	900#	F51	F51	DEVLON	NO ENP	UNMACHINED	FULL	CHA 90 HV 080 BN	1	
12	NEW KUKA	*KKV03-90-012	3"	900#	A350 LF2	A351 CF8M	DEVLON	NO ENP	UNMACHINED	FULL	CHA 90 LV 080 BN	3	
13	NEW KUKA	*KKV04-15-014	4"	150#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CFA 15 LE 100 BN	5	
14	NEW KUKA	*KKV04-60-014	4"	600#	A890-4A	A182 F51	DEVLON	NO ENP	RF	FULL	CFA 60 HV 100 BN	5	
15	NEW KUKA	*KKV04-90-004	4"	900#	F51	F51	DEVLON	NO ENP	UNMACHINED	FULL	CHA 90 HV 100 BN	1	
16	NEW KUKA	*KKV04-90-007	4"	900#	A350 LF2	A351 CF8M	DEVLON	NO ENP	UNMACHINED	FULL	CHA 90 LV 100 BN	3	
17	NEW KUKA	*KKV06-15-009	6"	150#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CFA 15 LE 150 BN	5	
18	NEW KUKA	*KKV06-30-005	6"	300#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CFA 30 LE 150 BN	5	
19	NEW KUKA	*KKV06-60-013	6"	600#	A352 LCC	A351 CF8M / A564-630	DEVLON	NO ENP	RF	FULL	CFA 60 LV 150 BN	0	
20	NEW KUKA	*KKV08-15-004	8"	150#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CFA 15 LE 200 BN	6	
21	NEW KUKA	*KKV08-30-004	8"	300#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CFA 30 LE 200 BN	9	
22	NEW KUKA	*KKV08-60-001	8"	600#	A352 LCC	A351 CF8M / A564-630	DEVLON	NO ENP	RF	FULL	CFA 60 LV 200 BN	5	
23	NEW KUKA	*KKV10-15-003	10"	150#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CFA 15 LE 250 BN	0	
24	NEW KUKA	*KKV10-30-004	10"	300#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CFA 30 LE 250 BN	9	
25	NEW KUKA	*KKV12-15-002	12"	150#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CFA 15 LE 300 BN	8	
26	NEW KUKA	TBA	1 1/2"	150#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CBA 15 LE 040 LN	4	
27	NEW KUKA	TBA	1 1/2"	300#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CBA 30 LE 040 LN	10	
28	NEW KUKA	*KKV6Q-60-001	1 1/2"	600#	A352 LCC	A351 CF8M / A564-630	DEVLON	NO ENP	RF	FULL	CBA 60 LV 040 LN	10	
29	NEW KUKA	TBA	1 1/2"	600#	A890-4A	A182 F51	DEVLON	NO ENP	RF	FULL	CBA 60 HV 040 LN	5	
30	NEW KUKA	TBA	1 1/2"	900#	F51	F51	DEVLON	NO ENP	UNMACHINED	FULL	CBA 90 HV 040 LN	5	
31	NEW KUKA	*KKV3Q-15-013	3/4"	150#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CBA 15 LE 020 LN	4	
32	NEW KUKA	TBA	3/4"	300#	A352 LCC	A351 CF8M / A564-630	RTFE	NO ENP	RF	FULL	CBA 30 LE 020 LN	18	
33	NEW KUKA	*KKV3Q-60-003	3/4"	600#	A352 LCC	A351 CF8M / A564-630	DEVLON	NO ENP	RF	FULL	CBA 60 LV 020 LN	20	
34	NEW KUKA	*KKV3Q-60-002	3/4"	600#	A890-4A	A182 F51	DEVLON	NO ENP	RF	FULL	CBA 60 HV 020 LN	4	
35	NEW KUKA	TBA	3/4"	900#	F51	F51	DEVLON	NO ENP	UNMACHINED	FULL	CBA 90 HV 020 LN	5	

PREPARED BY :

APPROVED BY :
