

P&ID Number	Tag Number	Valve Type	Valve Type Number	Commodity	Size (mm)	Valve Location	Maximum Working Pressure (kPa)	Actuator Service	Actuator Type	Voltage	Comments/ Control Features
									P - PNEUMATIC S - SOLENOID E - ELECTRIC		
<b>RWPS Area</b>											
<b>DAF Area</b>											
WP - P0001	FV - I014D	Butterfly	V500	RW	300	Exposed	115	Open/Close	E	575	Epoxy coated steel
WP - P0001	FV - I014E	Butterfly	V500	RW	300	Exposed	115	Open/Close	E	575	
WP - P0002	FCV - P100A	Butterfly	V501	RW	450	Exposed	98	Fully modulating	E	575	Normal flow range 26 to 52 ML/d
WP - P0002	FCV - P200A	Butterfly	V501	RW	450	Exposed	98	Fully modulating	E	575	Normal flow range 26 to 52 ML/d
WP - P0002	FCV - P300A	Butterfly	V501	RW	450	Exposed	98	Fully modulating	E	575	Normal flow range 26 to 52 ML/d
WP - P0002	FCV - P400A	Butterfly	V501	RW	450	Exposed	98	Fully modulating	E	575	Normal flow range 26 to 52 ML/d
WP - P0003	FCV - P500A	Butterfly	V501	RW	450	Exposed	98	Fully modulating	E	575	Normal flow range 26 to 52 ML/d
WP - P0003	FCV - P600A	Butterfly	V501	RW	450	Exposed	98	Fully modulating	E	575	Normal flow range 26 to 52 ML/d
WP - P0003	FCV - P700A	Butterfly	V501	RW	450	Exposed	98	Fully modulating	E	575	Normal flow range 26 to 52 ML/d
WP - P0003	FCV - P800A	Butterfly	V501	RW	450	Exposed	98	Fully modulating	E	575	Normal flow range 26 to 52 ML/d
WP - P0012	FV - P020D	Butterfly	V500	CRW	250	Exposed	98	Open/Close	E	575	SST
WP - P0012	FV - P020E	Butterfly	V500	CRW	250	Exposed	98	Open/Close	E	575	
WP - P0014	FV - P050D	Butterfly	V500	CRW	250	Exposed	98	Open/Close	E	575	
WP - P0014	FV - P050E	Butterfly	V500	CRW	250	Exposed	98	Open/Close	E	575	
<b>Ozone Area</b>											
<b>Filtration Area</b>											
WF - P0001	FV - F101A	Butterfly	V500	FIN	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0001	FV - F102A	Butterfly	V500	BWW	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0001	FCV - F103A	Butterfly	V501	FW	600	Exposed	170	Fully modulating	E	575	Normal flow range 29 to 58 ML/d
WF - P0001	FV - F104A	Butterfly	V500	FW	600	Exposed	170	Open/Close	E	575	
WF - P0001	FV - F105A	Butterfly	V500	FTR	600	Exposed	170	Open/Close	E	575	
WF - P0001	FV - F106A	Butterfly	V500	BWS	900	Exposed	170	Open/Close	E	575	
WF - P0001	FV - F107A	Butterfly	V511	AS	300	Exposed	170	Open/Close	E	575	
WF - P0002	FV - F201A	Butterfly	V500	FIN	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0002	FV - F202A	Butterfly	V500	BWW	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0002	FCV - F203A	Butterfly	V501	FW	600	Exposed	170	Fully modulating	E	575	Normal flow range 29 to 58 ML/d
WF - P0002	FV - F204A	Butterfly	V500	FW	600	Exposed	170	Open/Close	E	575	
WF - P0002	FV - F205A	Butterfly	V500	FTR	600	Exposed	170	Open/Close	E	575	
WF - P0002	FV - F206A	Butterfly	V500	BWS	900	Exposed	170	Open/Close	E	575	
WF - P0002	FV - F207A	Butterfly	V511	AS	300	Exposed	170	Open/Close	E	575	
WF - P0003	FV - F301A	Butterfly	V500	FIN	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0003	FV - F302A	Butterfly	V500	BWW	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0003	FCV - F303A	Butterfly	V501	FW	600	Exposed	170	Fully modulating	E	575	Normal flow range 29 to 58 ML/d
WF - P0003	FV - F304A	Butterfly	V500	FW	600	Exposed	170	Open/Close	E	575	
WF - P0003	FV - F305A	Butterfly	V500	FTR	600	Exposed	170	Open/Close	E	575	
WF - P0003	FV - F306A	Butterfly	V500	BWS	900	Exposed	170	Open/Close	E	575	
WF - P0003	FV - F307A	Butterfly	V511	AS	300	Exposed	170	Open/Close	E	575	
WF - P0004	FV - F401A	Butterfly	V500	FIN	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0004	FV - F402A	Butterfly	V500	BWW	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0004	FCV - F403A	Butterfly	V501	FW	600	Exposed	170	Fully modulating	E	575	Normal flow range 29 to 58 ML/d
WF - P0004	FV - F404A	Butterfly	V500	FW	600	Exposed	170	Open/Close	E	575	
WF - P0004	FV - F405A	Butterfly	V500	FTR	600	Exposed	170	Open/Close	E	575	
WF - P0004	FV - F406A	Butterfly	V500	BWS	900	Exposed	170	Open/Close	E	575	
WF - P0004	FV - F407A	Butterfly	V511	AS	300	Exposed	170	Open/Close	E	575	
WF - P0005	FV - F501A	Butterfly	V500	FIN	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.

P&ID Number	Tag Number	Valve Type	Valve Type Number	Commodity	Size (mm)	Valve Location	Maximum Working Pressure (kPa)	Actuator Service	Actuator Type	Voltage	Comments/ Control Features
									P - PNEUMATIC S - SOLENOID E - ELECTRIC		
WF - P0005	FV - F502A	Butterfly	V500	BWW	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0005	FCV - F503A	Butterfly	V501	FW	600	Exposed	170	Fully modulating	E	575	Normal flow range 29 to 58 ML/d
WF - P0005	FV - F504A	Butterfly	V500	FW	600	Exposed	170	Open/Close	E	575	
WF - P0005	FV - F505A	Butterfly	V500	FTR	600	Exposed	170	Open/Close	E	575	
WF - P0005	FV - F506A	Butterfly	V500	BWS	900	Exposed	170	Open/Close	E	575	
WF - P0005	FV - F507A	Butterfly	V511	AS	300	Exposed	170	Open/Close	E	575	
WF - P0006	FV - F601A	Butterfly	V500	FIN	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0006	FV - F602A	Butterfly	V500	BWW	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0006	FCV - F603A	Butterfly	V501	FW	600	Exposed	170	Fully modulating	E	575	Normal flow range 29 to 58 ML/d
WF - P0006	FV - F604A	Butterfly	V500	FW	600	Exposed	170	Open/Close	E	575	
WF - P0006	FV - F605A	Butterfly	V500	FTR	600	Exposed	170	Open/Close	E	575	
WF - P0006	FV - F606A	Butterfly	V500	BWS	900	Exposed	170	Open/Close	E	575	
WF - P0006	FV - F607A	Butterfly	V511	AS	300	Exposed	170	Open/Close	E	575	
WF - P0007	FV - F701A	Butterfly	V500	FIN	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0007	FV - F702A	Butterfly	V500	BWW	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0007	FCV - F703A	Butterfly	V501	FW	600	Exposed	170	Fully modulating	E	575	Normal flow range 29 to 58 ML/d
WF - P0007	FV - F704A	Butterfly	V500	FW	600	Exposed	170	Open/Close	E	575	
WF - P0007	FV - F705A	Butterfly	V500	FTR	600	Exposed	170	Open/Close	E	575	
WF - P0007	FV - F706A	Butterfly	V500	BWS	900	Exposed	170	Open/Close	E	575	
WF - P0007	FV - F707A	Butterfly	V511	AS	300	Exposed	170	Open/Close	E	575	
WF - P0008	FV - F801A	Butterfly	V500	FIN	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0008	FV - F802A	Butterfly	V500	BWW	900	Submerged	170	Open/Close	E	575	Side Submerged Gearbox.
WF - P0008	FCV - F803A	Butterfly	V501	FW	600	Exposed	170	Fully modulating	E	575	Normal flow range 29 to 58 ML/d
WF - P0008	FV - F804A	Butterfly	V500	FW	600	Exposed	170	Open/Close	E	575	
WF - P0008	FV - F805A	Butterfly	V500	FTR	600	Exposed	170	Open/Close	E	575	
WF - P0008	FV - F806A	Butterfly	V500	BWS	900	Exposed	170	Open/Close	E	575	
WF - P0008	FV - F807A	Butterfly	V511	AS	300	Exposed	170	Open/Close	E	575	
WF - P0009	FV - F910A	Butterfly	V500	BWS	900	Exposed	170	Open/Close	E	575	
WF - P0009	FCV - F911A	Butterfly	V501	BWS	750	Exposed	170	Fully modulating	E	575	Normal flow range 19 to 102 ML/d, normally fully open.
WF - P0009	FV - F912A	Butterfly	V500	FTR	750	Exposed	170	Open/Close	E	575	
WF - P0009	FV - F920A	Butterfly	V500	BWS	900	Exposed	170	Open/Close	E	575	
WF - P0009	FCV - F921A	Butterfly	V501	BWS	750	Exposed	170	Fully modulating	E	575	Normal flow range 19 to 102 ML/d, normally fully open.
WF - P0009	FV - F922A	Butterfly	V500	FTR	750	Exposed	170	Open/Close	E	575	
WF - P0009	FV - F931A	Butterfly	V500	FTR	750	Exposed	170	Open/Close	E	575	Remote Swith (handswitch mounted remotely from valve actuator)
WF - P0009	FV - F932A	Butterfly	V500	BWS	900	Exposed	170	Open/Close	E	575	
WF - P0009	FV - F933A	Butterfly	V500	BWS	900	Exposed	170	Open/Close	E	575	Provide with torque tube 914 mm above FL EL
WF - P0009	FV - J991A	Solenoid	V942	HYP	25	Exposed	350	Open/Close	S	120	Materials to be compatible with 10% sodium hypochlorite
WF - P0009	FV - J992A	Solenoid	V942	HYP	25	Exposed	350	Open/Close	S	120	Materials to be compatible with 10% sodium hypochlorite
WF - P0010	FV - F010A	Butterfly	V511	AS	350	Exposed	170	Open/Close	E	575	
WF - P0010	FV - F020A	Butterfly	V511	AS	350	Exposed	170	Open/Close	E	575	
WF - P0011	FV - F051A	Butterfly	n/a	FW	1350	Exposed	170	Open/Close	E	575	City Supplied Equipment
WF - P0011	FV - F052A	Butterfly	n/a	FW	1350	Exposed	170	Open/Close	E	575	City Supplied Equipment
WF - P0014	FV - J701C	Butterfly	V500	FW	100	Exposed	170	Open/Close	E	575	
WF - P0014	FV - J702C	Butterfly	V500	FW	100	Exposed	170	Open/Close	E	575	
WF - P0014	FV - J703C	Butterfly	V500	FW	100	Exposed	170	Open/Close	E	575	
<b>Chemical Area</b>											
WC - P0001	FV - C810B	Butterfly	V514	HP	75	Exposed	170	Open/Close	E	120	
WC - P0001	FV - C820	Butterfly	V514	HP	75	Exposed	170	Open/Close	E	120	
WC - P0002	FV - C840A	Solenoid	-	PSW	12	Exposed	560	Open/Close	S	120	Vendor Package
WC - P0002	FV - C850A	Solenoid	-	PSW	12	Exposed	560	Open/Close	S	120	Vendor Package

Automated Valve Schedule (all sizes)

P&ID Number	Tag Number	Valve Type	Valve Type Number	Commodity	Size (mm)	Valve Location	Maximum Working Pressure (kPa)	Actuator Service	Actuator Type	Voltage	Comments/ Control Features
									P - PNEUMATIC S - SOLENOID E - ELECTRIC		
WC - P0002	FV - C860A	Solenoid	-	PSW	12	Exposed	560	Open/Close	S	120	Vendor Package
WC - P0002	FV - C860C	Ball	-	HP	25	Exposed	560	Open/Close	E	120	Vendor Package
WC - P0002	FV - C860D	Ball	-	HP	25	Exposed	560	Open/Close	E	120	Vendor Package
WC - P0003	HV C940J	Butterfly	V514	SBS	75	Exposed	170	Open/Close	E	575	
WC - P0004	FV - C950A	Solenoid	-	PSW	12	Exposed	560	Open/Close	S	120	Vendor Package
WC - P0004	FV - C960A	Solenoid	-	PSW	12	Exposed	560	Open/Close	S	120	Vendor Package
WC - P0004	FV - C970A	Solenoid	-	PSW	12	Exposed	560	Open/Close	S	120	Vendor Package
WC - P0004	FV - C970C	Ball	-	SBS	25	Exposed	560	Open/Close	E	120	Vendor Package
WC - P0004	FV - C970D	Ball	-	SBS	25	Exposed	560	Open/Close	E	120	Vendor Package
WC - P0006	FV - C021A	Ball	-	PLS	50	Exposed	560	Open/Close	E	120	Vendor Package
WC - P0006	SOL - C021B	Solenoid	-	PSW	25	Exposed	560	Open/Close	S	120	Vendor Package
WC - P0007	FV - C031A	Ball	-	PLS	50	Exposed	560	Open/Close	E	120	Vendor Package
WC - P0007	SOL - C031B	Solenoid	-	PSW	25	Exposed	560	Open/Close	S	120	Vendor Package
WC - P0014	FV - C061A	Ball	-	PSW	12	Exposed	560	Open/Close	E	120	Vendor Package
WC - P0014	FV - C062A	Ball	-	PSW	12	Exposed	560	Open/Close	E	120	Vendor Package
WC - P0014	FV - C063A	Ball	-	PSW	12	Exposed	560	Open/Close	E	120	Vendor Package
WC - P0014	FV - C064B	Ball	-	PLS	25	Exposed	560	Open/Close	E	120	Vendor Package
WC - P0014	FV - C065B	Ball	-	PLS	25	Exposed	560	Open/Close	E	120	Vendor Package
WC - P0015	FV - C071A	Ball	-	PSW	12	Exposed	560	Open/Close	E	120	Vendor Package
WC - P0015	FV - C071B	Ball	-	PLS	25	Exposed	560	Open/Close	E	120	Vendor Package
WC - P0015	FV - C072A	Ball	-	PSW	12	Exposed	560	Open/Close	E	120	Vendor Package
<b>Residuals Area</b>											
WR - P0002	FV - R100A	Plug	V407	SUP	750	Submerged	1305	Open/Close	E	575	Sub. gearbox, pedestal,electric actuator,mounting access.,epoxy in/out
WR - P0003	FV - R200A	Plug	V407	SUP	750	Submerged	1305	Open/Close	E	575	Sub. gearbox, pedestal,electric actuator,mounting access.,epoxy in/out
WR - P0004	FV - R300A	Plug	V407	SUP	750	Submerged	1305	Open/Close	E	575	Sub. gearbox, pedestal,electric actuator,mounting access.,epoxy in/out
WR - P0005	FV - R400A	Plug	V407	SUP	750	Submerged	1305	Open/Close	E	575	Sub. gearbox, pedestal,electric actuator,mounting access.,epoxy in/out
WR - P0007	FV - R021B	PCV	V771	SUP	300	Exposed	1208	Open/Close	Self Contained	120	Solenoid control
WR - P0007	FV - R022B	PCV	V771	SUP	300	Exposed	1208	Open/Close	Self Contained	120	Solenoid control
WR - P0007	FV - R023B	PCV	V771	SUP	300	Exposed	1208	Open/Close	Self Contained	120	Solenoid control
WR - P0007	FV - R024B	PCV	V773	SUP	600	Exposed	1208	Open/Close	Self Contained	120	Solenoid control
WR - P0007	PRV - R024A	Globe	V772	SUP	300	Exposed	1208	Open/Close	-	-	Reduced port,hydraulic
WR - P0009	FV - R730A	Globe	V774	SLU	100	Exposed	1208	Open/Close	Self Contained	120	Hydraulic, Solenoid control
WR - P0009	PRV - R730A	Globe	V775	SLU	100	Exposed	1208	Open/Close	-	-	Reduced port, Hydraulic
WR - P0009	FV - R710A	Plug	V405	SLU	200	Submerged	150	Modulating	E	575	Internal and external epoxy coating
WR - P0009	FV - R720A	Plug	V405	SLU	200	Submerged	150	Modulating	E	575	Internal and external epoxy coating

Note 1. All valves within vendor packages shall be supplied and installed by the Contractor