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PIPING VALVES

GENERAL GENERIC

BALL

BALL THREE WAY

BUTTERFLY

DIAPHRAGM

GATE

GLOBE

HOSE BIB

KNIFE GATE

NEEDLE

NON-RETURN

PLUG

THREE WAY

FOUR WAY

MANUAL BALANCING DAMPER

RPZD (REDUCED PRESSURE ZONE DEVICE)

VALVE NORMALLY OPEN

VALVE NORMALLY CLOSED

VALVE ACTUATORS

DIAPHRAGM, PRESSURE BALANCED

DIAPHRAGM

FLOAT

COUNTER WEIGHT

HANDWHEEL (HAND ACTUATED)

PISTON

PNEUMATIC

POSITIONER SHOWN ON UNSPECIFIED ACTUATOR

SOLENOID

SPRING

FC VALVE OPERATION - FAIL CLOSED

FO VALVE OPERATION - FAIL OPEN

MOTOR

HYDRAULIC

SELF ACTUATED REGULATORS AND VALVES

AIR RELEASE VALVE

PRESSURE RELIEF OR SAFETY VALVES

PRESSURE REGULATING (PRESSURE REDUCING)

BACK PRESSURE REGULATING (PRESSURE SUSTAINING)

PRESSURE REGULATING WITH EXTERNAL TAP (PRESSURE REDUCING)

BACK PRESSURE REGULATING WITH EXTERNAL TAP (PRESSURE SUSTAINING)

RESTRICTION ORIFICE OR CONSTANT FLOW FITTING

EQUIPMENT

AERATOR COARSE BUBBLE

AERATOR FINE BUBBLE

AIR BLOWER

AIR DRYER

AIR SILENCER

AIR RECIEVER

BELLMOUTH

BELTPRESS

BURSTING DISC

CALIBRATION CYLINDER

CLARIFIER

SCUM SKIMMER

CENTRIFUGE

COMPRESSOR

DAMPER

CONVEYOR (SCREW)

CONVEYOR (BELT)

CORPORATION COCK & LANCE

DECANTER

EJECTOR

EXPANSION CHAMBER

EXPANSION JOINT

EXPANSION BELLOWS / FLEXIBLE CONNECTION

EXPLOSION PROOF FLAME ARRESTOR

FAN

FLOATING DRAW OFF

EQUIPMENT.....CONT

FLANGE - SLIP ON

FLANGE - DISMANTLING (THREADED)

FLANGE - BLIND

FLANGE - WELD NECK

FLANGE - LAPPED (OR STUB)

FILTER IN-LINE

FILTER CROSSFLOW

FLEXIBLE HOSE

FLOW CONTROL REGULATOR

GAUGE VARIOUS

GAUGE DIAPHRAGM / CHEMICAL SEAL

HEATING ELEMENT

HOSE COUPLING

HOSE CAMLOCK COUPLING

HOSE CAMLOCK COUPLING CAPPED

HOSE REEL

INJECTION QUILL

INJECTION QUILL, WITHDRAWABLE

WIQ

LOAD CELL

LEVEL TRANSMITTER ULTRASONIC

LUBRICATOR

MOTOR

MIXER

MIXER STATIC IN-LINE

PIPE - PLUG

PIPE - CAP

PULSATION DAMPER

PUMP - CENTRIFUGAL DRY WELL

PUMP - CENTRIFUGAL WET WELL

PUMP - CENTRIFUGAL SCREW

PUMP - AIR DRIVEN DIAPHRAGM

PUMP - PROPORTIONAL

PUMP - ROTARY POSITIVE DISPLACEMENT

PUMP - HELICAL

PUMP - MACERATED

PUMP - PROGRESSIVE CAVITY

REDUCER-ECCENTRIC

REDUCER-CONCENTRIC

SAFETY SHOWER & EYEWASH

SCREEN

EQUIPMENT.....CONT

SLIDE GATE

SIGHT GLASS

SIREN

SPACER

SPADE BLIND

SPARGE PIPE

SPECTACLE BLIND NORMALLY CLOSED

SPECTACLE BLIND NORMALLY OPEN

SPRAY NOZZLE

STOP / PENSTOCK / STOP BOARD

STRAINER GENERAL

STRAINER Y TYPE

TRAP OR AIR VALVE

TERMINATION POINT

THICKENER

TUNDISH DRAIN

TURBIDITY METER

UNION

UNION REDUCING

VENT

VARIABLE SPEED DRIVE

WATER TRAP

FLOW METERING

FLUME

FLOW METER VARIABLE AREA

VENTURI TUBE

FLOW METER GENERAL

FLOW METER MAGNETIC

ROTAMETER WITH FLOW PULSE OUTPUT

TURBINE OR PROPELLER METER

FLOW METER ULTRASONIC

VORTEX METER

FLOW ELEMENT, ORIFICE PLATE

PITOT TUBE OR ANNUBAR

WEIR

EXAMPLE OF VARIOUS ACTUATORS ON A BUTTERFLY VALVE

BUTTERFLY VALVE WITH PNEUMATIC ACTUATOR (DOUBLE ACTING)

BUTTERFLY VALVE WITH PNEUMATIC ACTUATOR (SINGLE ACTING)

BUTTERFLY VALVE WITH PNEUMATIC ACTUATOR/POSITIONER & IP CONVERTER

LINE SYMBOLS

PRIMARY PROCESS

SECONDARY PROCESS

ELECTRICAL

PNEUMATIC

INSTRUMENT CAPILLARY

INSTRUMENT HYDRAULIC

SOFTWARE LINK/SIGNAL

INSTRUMENT SIGNAL

ABOVE GROUND / UNDER GROUND

CONCRETE STRUCTURE

FLOW ARROW

DOUBLE CONTAINED PIPING

CHANNEL OUTLINE / LAUNDER

PIPE SLOPE

PIPE - LAGGED

PIPE - HEAT TRACED (STEAM)

PIPE - HEAT TRACED (ELECTRICAL)

PIPE - JACKETED

LINE SEPERATOR

OUT LEFT / IN RIGHT

IN LEFT / OUT RIGHT

XXX = SCADA I.D.

(XXX) = WATERSHED I.D.

EQUIPMENT NOT INCLUDED IN LEGEND TO BE FULLY DESCRIBED ON PID

NOTES:

1. FOR CONTROL TABLE AND CODES REFER SEWC. STD.0000.P.002

2. FOR AREA NUMBERS ON TREATMENT PLANTS REFER SEWC. STD.0000.P.003

3. FOR AREA NUMBERS OF WATER SUPPLY DISTRIBUTION ZONES REFER SEWC. STD.0000.P.004

4. FOR SEWERAGE CATCHMENT AREA NUMBERS REFER SEWC. STD.0000.P.004

5. FOR ALL EQUIPMENT AND VALVE TYPE CODES REFER SEWC. STD.0000.P.005

6. PROCESS AND INSTRUMENTATION DIAGRAMS SHALL BE DRAFTED IN ACCORDANCE WITH SOUTH EAST WATER DRAFTING STANDARD (AM2488)

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SCALE IN METRES (1:500 AT A1)

DESIGNER

DRAFTER

SEW PROJECT MANAGER

DESIGN REVIEW

DRAFT CHECK

ASSET/ENG. MANAGER

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South East Water

101 Wells Street, Frankston, VIC 3199 W : www.sew.com.au
T : 61 3 9552 3000 F : 61 3 9552 3001 E : info@sew.com.au

SOUTH EAST WATER

PROCESS AND INSTRUMENTATION DIAGRAM

SYMBOLS AND LEGEND SHEET 1

DATUM:

MELWAY REF:

SCALE:

SHEET SIZE: A1

SEW DRAWING NUMBER

STD.0000.P.001

SEW JOB No: AM2996

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A	MATERIAL CODES					FLUID CODES		LETTER CODE FOR IDENTIFICATION OF INSTRUMENT FUNCTION (based on ISA 5.1)					A
B													B
C													C
D													D
E													E
F													F
G													G
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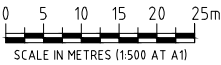
TREATMENT PLANT AREA NUMBERS

AREA NUMBERS	
0100 General	
0110 Site	
0120 Workshop/spares shed	
0130 Admin	
0140 Control room	
0150 Services (potable, gas, power, comms, fire fighting etc)	
0160 Plant Control (PLC/UPS)	
0170 Generator	
0200 Preliminary/Primary Treatment	
0210 Screening	
0220 Grit	
0230 Odour control	
0240 Primary solids removal	
0250 Chemicals	
0300 Secondary Treatment	
0310 Bioreactor	
0320 Clarification,	
0330 Aeration	
0340 Chemicals	
0400 Tertiary Treatment	
0410 UF	
0420 UV	
0430 RO	
0440 Chlorination	
0450 Chemicals	
0500 Sludge Processing	
0510 Thickening	
0520 Digestion	
0530 Biogas	
0540 Chemicals	
0600 Sludge Drying	
0610 Dewatering	
0620 Drying (solar dryers/drying pans)	
0630 Chemicals	
0700 Effluent	
0710 Onsite re-use	(A class and C class)
0720 Offsite re-use	(A class to Outfall)
0730 Effluent disposal	
0800 Lagoons	
0810 Emergency storage lagoons	
0820 Sludge lagoons	
0830 Treatment lagoons	
0840 Effluent storage lagoons	

STP IDENTIFICATION NUMBER	
TREATMENT PLANT	NUMBER
PAKENHAM	SRP32
MT MARTHA	SRP33
BONEO	SRP34
SOMERS	SRP35
BLIND BIGHT	SRP37
KOO WEE RUP	SRP 38
LANG LANG	SRP39
LONGWARRY	SRP41

TYPICAL IDENTIFICATION LABELS UTILIZING AREA NUMBERS	
EQUIPMENT IDENTIFICATION	
[Symbol] [Symbol] - [0][2][1][0] - [Symbol] [Symbol]	
AREA	
PIPELINE IDENTIFICATION	
[Symbol] [Symbol] [Symbol] - [Symbol] [Symbol] [Symbol] [Symbol] - [Symbol] [Symbol] [Symbol] [Symbol] - [0][2][1][0] - [Symbol] [Symbol]	
AREA	
VALVE IDENTIFICATION	
[Symbol] [Symbol] - [0][2][1][0] - [Symbol] [Symbol]	
AREA	
FOR FULL IDENTIFICATION LABELS PLEASE REFER TO SEWC. STD.0000.P.002	

- NOTES :
- 1. FOR PROCESS AND INSTRUMENTATION DIAGRAM SYMBOLS (P&ID) REFER SEWC. STD.0000.P.001
 - 2. FOR CONTROL TABLE AND CODES REFER SEWC. STD.0000.P.002
 - 3. FOR AREA NUMBERS OF WATER SUPPLY DISTRIBUTION ZONES REFER SEWC. STD.0000.P.004
 - 4. FOR ALL EQUIPMENT AND VALVE TYPE CODES REFER SEWC. STD.0000.P.005
 - 5. USE THE CONFIGURATION OF "0000" FOR AREA CODE WHERE NO AREA IS APPLICABLE
 - 6. PROCESS AND INSTRUMENTATION DIAGRAMS SHALL BE DRAFTED IN ACCORDANCE WITH SOUTH EAST WATER DRAFTING STANDARD (AM2488)



								DESIGNER	DRAFTER	SEW PROJECT MANAGER	South East Water 101 Wells Street, Frankston, VIC 3199 W : www.sew.com.au T : 61 3 9552 3000 F : 61 3 9552 3001 E : info@sew.com.au	SOUTH EAST WATER PROCESS AND INSTRUMENTATION DIAGRAM WRP AREA NUMBERS SHEET 3		DATUM:			
								MELWAY REF:									
								DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER				SCALE: .	SHEET SIZE: A1		
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REV	DESCRIPTION	JOB No	DRAFTER	DES. REVIEW	APP'D	DATE								SEW JOB No: AM2996		REV	

CAD FILE NAME: P:\Shared\GIH\SEW\Standard drawings\IPD\STP STD. STD.0000.P.003_9 IPD_WRP AREA NUMBERS SEW Standard sheet 3.dwg
Plotted @ 15/7/2024 8:41am by ghaskins

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EQUIPMENT TYPE CODES													
A	Air Conditioner	ACR	DC Power Supply	DCP	Heater	HTR	Odour Control Media	OCM	Router	ROU	Thermal Detector	THD	A
	Acoustic Sensor	ACS	Decanter	DEC	Hot Water System	HWS	Operator Interface	OIF	RECYCLED WATER PUMP STATION	RP	Thickener	THK	
	Actuator	ACU	Fire Prevention Deluge System	DEL	Heat Exchange Unit	HXC	Oil Separator	OLS	Back Flow Prevention Device	RPZ	Temperature Controller	TMC	
	Air Dryer	ADR	Detector	DET	Hydro Mini	HYD	Recirculating Pump	PCL	RECYCLED WATER FACILITY	RR, RT	Temperature Probe	TMP	
	Aerator	AER	DETENTION TANK	DET	Injection Lance	IJL	Pump Dosing System	PDS	Rain Sensor	RSR	Tank	TNK	
	Air Filter	AIF	Dewatering Equipment	DEW	IQ Sensor	IQS	Power Factor Correction	PF	RTU	RTU	TRC Meter	TRM	
	Analysar	ANA	Generator	DGS	Irrigator	IRG	Phase Fail Relay	PR	Site Access Road	SAR	Water Trap	TRP	
	Anchor Point	ANP	Diffuser	DIF	Isolator -Main Isolator & Motor Starter Isolator	ISO	pH Analyser	PHA	Screw Feeder	SCF	Turret Top	TRT	
	Antenna	ANT	DO Probe	DOP	BALL	ISV	pH probe	PHP	Screen	SCR	Tank Static Line	TSL	
	AIR (Air Valve)	ARV	Decanter Position Indicator	DPI	BUTTERFLY	ISV	Pipe	PIP	SCADA Control	SCS	Temperature Switch	TSW	
	Air Valve	ARV	Damper	DRP	FERRULE	ISV	Pit	PIT	Scum Trap	SC	Turbine	TUR	
	Auto Sampler	ASR	Drain	DRN	FERRULE	ISV	Penstock	PKV	Supply Changeover Unit	SCU	Tank Water Pump	TWP	
	AIR (Air Valve)	AV	Dosing Skid	DSK	FLOAT	ISV	PLC	PLC	Sludge Density Meter	SDM	UF Skid	UFS	
	Superstructure	BDG	Automatic Drum Shutdown Control Unit	DSU	FOOT	ISV	Pulsation Dampner	PLD	Sludge Drying Pan	SDS	UPS	UPS	
	Beam	BEA	Evacuation Emergency Light	EEL	GATE	ISV	Power Monitoring Device	PMD	Speed Sensor	SDS	UV Analyser	UVA	
	Bellow	BEW	Evacuation Emergency Siren	EES	GATE	ISV	Polymer Make Up Unit	PMU	Sludge Turner	SDT	UV Bank	UVB	
	Baffle	BFL	Export Limiting Meter	ELM	INFR	ISV	Protocol Converter	PRC	Sewer Equipment Access	SEA	UV Controller	UVC	
	Bin	BIN	Evacuation Emergency Light/Siren	ELS	Isolation Valve	ISV	Pressure Relief Valve	PRF	Sensor	SEN	Waste Water UV Disinfection	UVD	
	Blanket	BLT	Emergency Lighting	EML	NEEDLE	ISV	Pressure Regulator	PRG	SEWER MONITORING SITE	SF	UV Reactor Intensity Measurement	UVM	
	Blower	BLW	ELECTRONIC METERED STANDPIPE	EMS	SLUICE	ISV	Probe	PRO	Surge Filter	SGF	Power Conditioner	UVP	
	Barometer	BMR	EMERGENCY RELIEF STRUCTURE	ERS	SLUICE	ISV	Pressure Gauge	PSG	Sludge Heater	SHR	UV Sensor	UVR	
	Burner	BNR	Emergency Shower	ESH	STOP	ISV	Pressure Switch	PSH	Sprinkler	SKL	UV System Control	UVS	
	Bio Tower Vent Stack	BOT	Ethernet Switch	ETS	STOPCOCK	ISV	Sump Pump	PSP	Silencer	SLC	UV Unit	UVU	
	Barge	BRG	Fan	FAN	SLUICE (Isolation Valve)	IV	RECYCLED WATER NETWORK PUMPS	PSR	Sludge Plate	SLP	ALTITUDE	VAL	
	Camera	CAM	Fire Indicator Panel	FIP	Lagoon	LAG	Rotable Sewer Pump	PSS	Smoke Detector	SMD	Control Valve	VAL	
	Conductivity Meter	CDV	Floodgate	FLG	Leakage Detector	LDR	Sewer Pump	PSS	Security Monitoring	SME	PRESSURE REDUCING	VAL	
	Centrifuge	CFG	Filter	FLT	Lifting Equipment	LIF	Pressure Transmitter	PST	Sample Pump	SMP	PRESSURE REDUCING	VAL	
	Constant Flow Relay	CFR	Flame Arrestor	FMA	Lining	LIN	PUMP	PSW	ODOUR CONTROL STATION	SO	PRESSURE RELIEF	VAL	
	Chlorination Plant	CHL	Flow Meter	FMR	Level Monitor	LMR	Water Pump (PUMP)	PSW	Solenoid	SOL	PRESSURE SUSTAINING	VAL	
	CHP Unit	CHP	Frame	FRM	Limit Switch	LMT	Remote Control Sewer Valve (GATE)	PV	Safety Shut off valve	SOV	SCOUR	VAL	
	Chemscan Unit	CHU	Flow Switch	FSW	Lime Silo Equipment	LSE	Pressure Vessel	PVL	SEWER PUMP STATION	SP	Vibration Sensor	VBS	
	Chlorine Analyser	CLA	Flow Controller	FWC	Level Switch	LSW	DC Supply renamed to Power Supply	PWS	Spark Arrestor	SPA	Vacuum Unit	VMU	
	Chlorine Leak Detector	CLD	Flow Orifice	FWO	Macerator	MAC	Power Supply (Extra Low Voltage)	PWS	Security PC	SPC	Vent Stack	VSK	
	Chiller	CLL	Access Gate	GAT	Module	MDL	Polymer Dosing Skid	PYD	Slip Ring	SPR	Wall	WAL	
	Chlorine Sensor	CLS	Gearbox	GBX	Modem	MDM	Piezometer	PZM	Solar Power	SPW	WATER PRESSURE REDUCING STATION	WB	
	Compressor	CMP	Gas Cooler	GCL	Pipework Manifold	MPD	Process Pump	PZS	Solar Inverter	SRI	Washdown Bay	WBY	
	Channel	CNL	Grass Filtration Area	GFA	Mixer	MIX	Radio	RAD	Solar Module Panel	SRM	WATER CHLORINATION PLANT	WC	
	Contactor	CON	Gas Flare	GFL	Monitor	MON	RECYCLED WATER PRESSURE RED. STAT.	RB	Strainer	SRN	WATER DISINFECTION SITE	WC	
	Capacitor Bank	CPB	Gas Feed Unit	GFU	Low Pressure Sewer Control Box	MONO or EONE	RECYCLED CHLORINATION PLANT	RC	SEWER TREATMENT PLANT	SRP	Water Equipment Access	WEA	
	Control Panel Power Meter	CPM	Gas Pilot	GPL	Low Pressure Sewer Pump	MONO or EONE	RECYCLED DISINFECTION SITE	RC	Sludge Storage Area	SSA	Weir	WER	
	ELECTROLYSIS UNIT	CPU	Gas Pressure Relief Valve	GPR	Mobile Plant and Equipment	MPE	Remote Communications Logger	RCL	Starter	STR	Weather Station	WES	
	ELECTROLYSIS UNIT (ICCU)	CPW	Grit Washer	GRW	Mobile Sewer Pump	MPZ	CHART RECORDER	RG	SCOUR (Scour Valve)	SV	WATER MONITORING SITE	WG	
	Condensate Trap	CST	Gas Detector	GSD	Motor	MTR	DEPTH	RG	Switchboard	SWB	WATER PUMP STATION	WP	
	Controller	CTR	Amperometric Gateway	GTY	Motion Sensor	MTS	EVAPORATION	RG	Sludge Withdrawal System	SWS	WATER QUALITY MONITORING SITE	WQ	
	Cover	CVR	Hatch	HCH	Motorised Weir	MTW	FLOW	RG	Turbidity Meter	TBM	WATER STORAGE FACILITY	WR,WT	
	Converter	CVT	High Level Pump Operate System	HLP	NON RETURN	NRV	GENERAL	RG	Time Clock	TCL	Weight Scale	WSC	
	Cylinder	CYL	Harmonic Filter	HMF	Non Return Valve	NRV	GENERAL	RG	Time Converter	TCV	Wind Sensor	WSR	
	Davit Arm Base	DAB	H2S Meter	HSM	REFLUX	NRV	RECYCLED WATER MONITORING SITE	RG	Pressure Transducer	TRD	Well Washer	WWS	
	Rescue Davit Arm	DAR	Hose Reel	HSR	Network Switch	NTS	STARLOGGER	RG	Tank Fall Prevention System	TFP			
			Heat Detector	HTD	Odour Control Facility	OCF	RO Controller	ROC	Ignition Transformer	TFR			