

SYMBOL OPEN	SYMBOL CLOSE	ANAEERGIA CODE	VALVE
	--	ARV01	AIR ELIMINATOR VALVE
		BV01LEV + 07	BALL VALVE
		BL01LEV + 05	BUTTERFLY VALVE
	--	CV01 + 02 CV05 + 07	CHECK VALVE
	--	CV03 + 04	BALL CHECK VALVE
		--	DIAPHRAGM VALVE
	--	FL01	FLOAT VALVE
	--	--	FOOT VALVE
		--	GENERIC TWO-WAY VALVE GATE VALVE
		--	GLOBE VALVE
	--	--	INJECTION QUILL
		WB01HWH	KNIFE VALVE
	--	--	NEEDLE VALVE
	--	--	PINCH VALVE
	--	--	PLUG VALVE
	--	--	VACUUM BREAKER
	--	EJ01 + EJ02	RUBBER EXPANSION JOINT
	--	3V01	3 WAY VALVE

SYMBOL	ACTUATOR
	BACK PRESSURE CONTROL (EXTERNAL REGULATING)
	BACK PRESSURE CONTROL (INTERNAL REGULATING)
	ELECTRIC ACTUATED
	ELECTRIC WITH POSITIONER
	HYDRAULIC ACTUATED
	HYDRAULIC WITH POSITIONER
	INTEGRAL I/P CONVERTER
	PISTON ACTING
	PISTON SPRING TO CLOSE
	PISTON SPRING TO OPEN
	PISTON ACTING WITH POSITIONER
	PRESSURE REDUCING (EXTERNAL REGULATING) ANAEERGIA CODE: PRV03, PRV04
	PRESSURE REDUCING (INTERNAL REGULATING) ANAEERGIA CODE: PRV01, PRV02, PRV03
	ROTARY MOTOR - ANALOG
	ROTARY MOTOR - DIGITAL
	FLOW REGULATING ANAEERGIA CODE: FRV01
	SOLENOID ANAEERGIA CODE: SV01 ÷ SV03
	SOLENOID 3 WAY
	SOLENOID 4 WAY

SYMBOL	DESCRIPTION
	SCOPE BREAK
	MATERIAL BREAK
	PIPE INSULATION

SYMBOL	RELIEF
	PRESSURE RELIEF VALVE (PSV01)
	VACUUM SAFETY VALVE (PSV02)
	PRESSURE RUPTURE DISK
	VACUUM RUPTURE DISK
	GAGE GUARD
	PULSATION DAMPNER
	VENT
	GROUND
	DRAIN

SYMBOL	FLOW ELEMENT
	PADDLE WHEEL
	FLOW NOZZLE
	FLUME
	MAGNETIC FLOWMETER
	SONIC/ULTRASONIC
	TURBINE
	VENTURI TUBE
	VORTEX
	ROTAMETER
	FIXED ORIFICE

SYMBOL	MISCELLANEOUS
	CALIBRATION COLUMN
	COARSE BUBBLE DIFFUSER ELEVATION VIEW
	EJECTOR
	FLAME ARRESTOR
	FLASH ALARM LIGHT
	DIAPHRAGM SEAL
	ACCESS HATCH
	MOTOR
	SILENCER
	SPRAYER NOZZLE
	STATIC MIXER
	ALARM SIREN
	SUSPENDED ULTRASONIC LEVEL
	VIBRATION ISOLATOR

SYMBOL	DESCRIPTION
	COMPRESSED AIR
	RO PERMEATE
	ULTRAFILTRATION PERMEATE
	UTILITY WATER

SYMBOL	CONNECTIONS
	FLANGE
	FLANGE BLIND
	VICTAULIC
	VICTAULIC PLUG
	SANITARY
	SANITARY PLUG
	THREADED
	THREADED PLUG
	SOCKET
	UNION
	CAMLOCK
	CAMLOCK PLUG
	HOSE BARB
	WELDED PIPE CAP
	STRAUB
	REDUCER
	SPECTACLE BLIND CLOSED

SYMBOL	FILTERS
	CONE STRAINER
	FILTER
	FIXED SCREEN
	PUMP SCREEN
	RESIN TRAP
	STEAM TRAP
	Y STRAINER ANAEERGIA CODE: FY01 ÷ 03

SYMBOL	LINE TYPES
	CAPILLARY TUBING
	ELECTRICAL
	ELECTRICAL-TRACE
	EQUIPMENT
	EQUIPMENT LIMIT OR BOUNDARY LINE
	FLEX HOSE/TUBING
	FUTURE
	HEAT-TRACING
	HYDRAULIC SIGNAL
	PNEUMATIC
	PRIMARY PROCESS
	SECONDARY PROCESS SAMPLE/DRAINS/VENTS
	LINE BREAK
	SOFTWARE-LINK
	STEAM-TRACE

PIPING CLASS
50-PL-101-SAP10-IN
INSULATION
PRESSURE CODE
MATERIAL CODE
LINE NUMBER
FLUID
PIPE SIZE

XX	MATERIAL CODE	TYPE
CS	CARBON STEEL	METALLIC
GCS	GALVANIZED CARBON STEEL	METALLIC
PE	POLYETHYLENE	PLASTIC
PG	POLYPROPYLENE FOR BIOGAS	PLASTIC
PK	PE-XA PREINSULATED PIPE	PLASTIC
PV	PVC-U	PLASTIC
SA	304 SS	METALLIC
SS	316 SS	METALLIC
SM	ASIS 316L (1.4401)	METALLIC

PRESSURE CODE	CLASS	FABRICATION CODE
125	ANSI CLASS 125#	ANSI
150	ANSI CLASS 150#	ANSI
300	ANSI CLASS 300#	ANSI
400	ANSI CLASS 400#	ANSI
600	ANSI CLASS 600#	ANSI
900	ANSI CLASS 900#	ANSI
1500	ANSI CLASS 1500#	ANSI
2500	ANSI CLASS 2500#	ANSI
P06	PN6	METRIC
P10	PN10	METRIC
P16	PN16	METRIC
P25	PN25	METRIC
P40	PN40	METRIC
P64	PN64	METRIC
P100	PN100	METRIC
P160	PN160	METRIC
P250	PN250	METRIC

PIPING CLASS	MAIN FLUIDS	RATING	MATERIAL
SAP10	BIOGAS	PN10	ASIS304 (1.4301)
SSP10	BIOGAS PROCESS LINES	PN10	ASIS316 (1.4401)
PEP10	UNDERGROUND PROCESS LINE	PN10	POLYETHYLENE-HD PE100
PGP10	UNDERGROUND BIOGASS	PN10	POLYETHYLENE-HD PE100 GAS
PKP10	UNDERGROUND HEATING WATER	PN10	POLYETHYLENE-xa
PVP10	CHEMICALS DRAINAGE	PN10	PVC-U
CSP10	HEATING WATER	PN10	CARBON STEEL
CSP10	BIOMETHANE	PN10	CARBON STEEL
CSP10	BIOMETHANE	PN40	CARBON STEEL
SMF10	UTILITIES	PN10	ASIS316 (1.4401)
GCSP10	UTILITIES	PN10	GALVANIZED CARBON STEEL

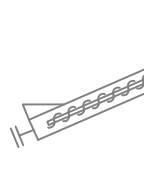
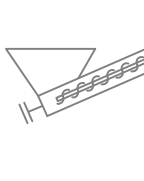
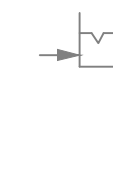
FLUID TAG	STREAM DESCRIPTION
ACC	ACTIVE CARBON
ACL	AIR CLEAN
AFO	AIR FOUL
AMS	AMMONIUM SULFATE
ANS	ANTI BACTERIA
ANF	ANTI FOAMING
ASC	ANTI SCALANT
BIG	BIOGAS
BCL	BIOGAS CONDENSATE
BIM	BIOMETHANE
BLO	BLOWDOWN
CKS	CAKE SOLID
CDI	CARBON DIOXIDE
CAS	CATALYST SODA
CIR	CITRIC ACID
ACP	COMPRESSED AIR
ECC	CONCENTRATE FROM EVAPORATOR
ECD	CONDENSATE FROM EVAPORATOR
DRE	DAF EFFLUENT
DFP	DAF FLOATED
DET	DETERGENT
DPL	DRY POLYMER
EPL	EMULSION POLYMER
ECS	EXTERNAL CARBON SOURCE
FEW	FERROUS WASTE
FCL	FERROUS/FERRIC CHLORIDE
FEF	FERTILIZER PRODUCT
FILTRATE	FLT
GRF	GRIT
HYA	HYDROCHLORIC ACID
INC	INCONDENSABLE
LCH	LEACHATE
LFS	LIQUID FEEDSTOCK
M/N	MICRONUTRIENT
MIL	MIXED LIQUOR
NAG	NATURAL GAS
NIA	NITRIC ACID
NFE	NON-FERROUS METALS
OIL	OIL (SERVICE)
ORF	ORGANIC FRACTION
PHA	PHOSPHORIC ACID
PRL	PROCESS LIQUOR
PROPANE	PROPANE
NIT	PURE NITROGEN
OXY	PURE OXYGEN
RJF	RECTIFY FRACTION
ROP	RO PERMEATE
ROF	RO RETENTATE
SAG	SCRUBBING AGENT
SLT	SLUDGE THICKENED
SOC	SODIUM CARBONATE
SHP	SODIUM HYPOCHLORITE
SOW	SOFTENED WATER
SFS	SOLID FEEDSTOCK
SUA	SULFAMIC ACID
SFA	SULFURIC ACID
TLS	TAIL GAS
LUP	ULTRAFILTRATION PERMEATE
URE	UREA
UTW	UTILITY WATER

TAG	EQUIPMENT ABBREVIATIONS
ACH	ACCESS HATCH
ACP	ACTIVATED CARBON POLISHING SYSTEM
ACT	AIR CONDITIONER
AOT	AUTO DRAIN TRAP
ALO	AIR LOCK
AMR	AMMONIA RECOVERY
AMS	AMMONIUM SCRUBBER
APA	ALARM PANEL
ARV	AIR RELIEF VALVE
ASE	ANNULAR SEAL
AUG	AUGER
AVE	AIR VENT
BAH	BAGHOUSE
BAL	BALER
BAG	BAG OPENER/BREAKER
BCO	BELT CONVEYOR
BGS	BATCH GRIT SEPARATOR
BGU	BIO-GAS UPGRADING
BIA	BIO-GAS ANALYZER
BIC	BIO CELL
BIF	BIOFILTER
BIN	BIN
BLE	BLENDER
BLO	BLOWER (ANY TYPE)
BOI	BOILER
BRN	BURNER
CAC	CALIBRATION COLUMN
CAM	CAMERA
CBF	CARBON FILTER
CDR	CONDENSER
CEH	CENTRIFUGE
CHI	CHILLER/DEHUMIDIFICATION
CHP	CHP
CHT	CHUTE
CLP	CLEANPRESS
CMP	COMPACTOR
COM	AIR COMPRESSOR
COS	CONTROL STATION
CPI	CONTROL PANEL
CPR	COMPRESSOR
CSA	CRANE
CTO	COOLING TOWER
CV	CHECK VALVE
CVV	CONVEYOR
CYL	CYLINDER
DAF	DAF
DCV	DYNAMIC CYCLONE
DEA	DEAERATOR
DEM	DEMISTER
DES	DESULPHURIZATION SYSTEM
DIB	DIESEL BOLLER
DIF	DIFFUSER
DIS	DIAPHRAGM SEAL
DRN	DRAIN
DRT	DRAIN TRAP
DRY	DRYER
DSP	DESULPHURIZATION PACKAGE
EDC	EDDY CURRENT
EPH	EMERGENCY FLARE
EIT	EJECTOR
EPB	EMERGENCY PUSH BUTTON
EV	ELECTRICAL VALVE
EVA	EVAPORATOR
EXP	EXPANSION TANK
FAL	FLASH ALARM LIGHT
FAN	FAN
FDR	FEEDER
FES	FEEDSTOCK STORAGE
FHO	FEEDING HOPPER
FHV	FLASHING VESSEL
FLA	FLAME ARRESTOR
FLC	FLASH COUPLING
FLP	FILTER PRESS
FLT	FILTER
FLV	FLOAT VALVE
FRV	FLOW REGULATION INDICATOR VALVE
FRM	FRAME BOGCAT
FSP	FUS separator
FTK	FLOCCULENT MIX TANK
FV	AUTOMATED VALVE
GAT	GATE
GEN	GENERATOR
GMU	GAS MINING UNIT
GRN	GRINDER
GSR	GAS BLENDING
GWS	GRIT WASHING SYSTEM
HOU	HYDRAULIC DRIVE UNIT
HEA	HEATER
HEX	HEAT EXCHANGER
HMI	HAMMER MILL
HPU	HYDRAULIC POWER UNIT
HSP	HYDRAULIC SEPARATOR
HSS	H2S SCRUBBER
HTR	HEAT TRACING
HV	HAND VALVE
HXC	AFTER COOLER
HYD	HYDROCYCLONE
HYL	HYDRAULIC LID
HYP	HYDRO-PNEUMATIC
ITC	INTERCONNECTING TERMINATION CABINET
LAM	LAMP
LBB	LIVE BOTTOM BIN
LCP	LOCAL CONTROL PANEL
LDC	LOAD CELL
LPB	LOCAL PUSH BUTTON
LSH	LATERAL SCREW
M	MOTOR
MAC	MACERATOR
MAD	MAGNETIC DRUM
MBR	MEMBRANE (PERACAST)
MED	METERING DRUM
MIC	MICROFILTRATION
MIS	MATURATION BIE
MTC	MEMBRANE TANK COVER
MTS	METAL SEPARATOR
MUD	MULTIPLE DESTINATIONS
MXP	MIXING PUMP
MXP	MIXER
NAN	NANO FILTRATION
NGG	NATURAL GAS GRID
OPE	OPERATOR
OPS	ORGANIC POLISHING SYSTEM
ORE	ORE PRESS
OSM	ORGANIC SEPARATION MILL
P	PUMP (ANY TYPE)
PAO	PASTE/URIZER (POST)
PAP	PASTE/URIZER (PRE)
PMI	PADDLE MILL
PPS	PULP FLOW SCREEN
PIT	LEACHATE/DRAIN COLLECTION PIT
PKG	PACKAGE
PLD	POLYMER DILUTOR/DISPERSION UNIT
PMU	POLYMER MAKE UP UNIT
PSV	PRESSURE REGULATING VALVE
PSS	SSO PRESS
PSV	PRESSURE SAFETY VALVE
PUD	PULSATION DAMPENER
PUP	PUSH FLOOR
PWS	PRESSURE WASHER

PVR	PYROLYZER
RAD	RADIATOR
RCB	REVERSIBLE CONVEYOR BELT
RDS	ROTARY DRUM SIEVE
RCM	RE MI CABIN
RLI	RED LIGHTS
ROS	REVERSE OSMOSIS
RSC	REVERSIBLE SCREW CONVEYOR
RTO	REGENERATIVE THERMAL OXIDIZER
RUN	RUN
RVM	RECEIVING HOPPER
SBR	SBR
SBR	SERVICE BOX
SCA	AIR SCRUBBER
SCB	SCRUBBER
SCN	SCREEN
SCP	SCREW PRESS
SCW	SCREW CONVEYOR
SEP	SEPARATOR
SPD	SOLIDS FEEDER
SFR	STEEL FRAME
SGL	SIGHT GLASS
SHD	SAFETY SHOWER
SHR	SHREDDER
SLO	SLIDE GATE
SLS	SILDS
SMX	STATIC MIXER
SOS	SOS SCRUBBER
SSD	SLUDGE SCREW DEVATERER
SSP	SLUDGE SCREW PRESS
SST	SLUDGE SCREW THICKENER
STB	STRAUB
STA	STACK
STP	STRIPPER
STR	STRAINER
STZ	STERILIZER
SWP	SINGLE SCREW PRESS
TCO	TANK COVER
THK	THICKENER
TK	TANK (CLOSED/OPEN)
TK	DIGESTATE STORAGE TANK
TK	EQUALIZATION TANK (CLOSED/OPEN)
TK	GENERAL TANK
TK	PRIMARY DIGESTER
TK	SECONDARY DIGESTER
TK	TERTIARY DIGESTER
TK	UASB
TKA	WWTP AEROBIC TANK
TKC	TANK FOR CHEMICALS
TKE	EVA-CONCENTRATE TANK
TKF	FILTRATE STORAGE TANK
TNP	RO PERMEATE TANK
TKR	RO RETENTATE TANK
TKX	WWTP ANOXIC TANK
TRF	TRANSFORMER
TRM	TRUCK WASH
TWL	THERMAL WELD
TWS	TWISTER
VBL	VOLUMETRIC BLOWER
VFD	VARIABLE FREQUENCY DRIVE
VSL	VESSEL
WAW	WATER WELL
WDR	WASHING DRUM
WHP	WEIGHTENING HOPPER
WSC	SCALE
WSH	WINDSIFTER
WSO	WATER SOFTENER
XSF	SULOXANE REMOVAL FILTER

MAIN EQUIPMENT SYMBOL

	TANKER TRUCK
	OFF LOADING DUMP TRUCK
	LOADING DUMP TRUCK
	FRONT END LOADER
	SOLID FEEDER
	LIVE BOTTOM BIN
	HYDRAULIC COVER
	BELT CONVEYOR
	CONVEYOR BELT
	LATERAL SCREW

	SCREW CONVEYOR
	SCREW CONVEYOR WITH FEEDING HOPPER
	CRANE
	BAG OPENER
	METAL SEPARATOR
	METERING DRUM
	FAN
	SUBMERSIBLE PUMP
	CENTRIFUGAL PUMP
	ROTARY LOBE PUMP
	PERISTALTIC PUMP
	PROGRESSIVE CAVITY PUMP
	SINGLE SCREW PUMP
	CENTRIFUGAL BLOWER
	SHREDDER
	CHEMICAL FEED PUMP
	MIXING PUMP
	DIAPHRAGM PUMP
	ZPS PUMP
	RPM PUMP