



VALVES		FITTINGS		SPECIALITY ITEMS		DRAWING CONNECTION		MISCELLANEOUS IDENTIFICATIONS		NOTES:
△ GATE VALVE		X''X'' CONCENTRIC REDUCER		FLAME ARRESTOR	○ CONE STRAINER	OFF-DRAWING CONNECTORS		REVISION CLOUD WITH REVISION TRIANGLE		1. THE FENCE LINE INDICATES THE BOUNDARIES OF THE PLANT.
△ 3-WAY GATE VALVE		□ ECCENTRIC REDUCER		PULSATION DAMPENER	○ DUPLEX BASKET STRAINER	SERVICE DESCRIPTION → XXXX	EQUIPMENT NUMBERS OR UNIT NUMBER, → YYYY	SUPPLIER PACKAGE		2. HOSE MATERIAL : SYNTHETIC RUBBER WITH BRAID REINFORCEMENT SUITABLE FOR PLANT AIR, SERVICE WATER AND NITROGEN.
△ ANGLE GATE VALVE		□ CAP		EXPANSION JOINT	○ FLAT PLATE STRAINER	SOURCE/DESTINATION	CONNECTION DRAWING NUMBER	NON SUPPLIER PACKAGE OR MODULE PACKAGE		3. HOSE DESIGN PRESSURE AND TEMPERATURE : 12 barg @ 85°C TEST PRESSURE : 18 barg.
△ GLOBE VALVE		□ HOSE CONNECTION		HINGED EXPANSION JOINT	○ BASKET STRAINER	OFF-DRAWING CONNECTORS (BI-DIRECTIONAL)		FENCE (NOTE-1)		4. HOSE LENGTH : 15 m.
△ 3-WAY GLOBE VALVE		I FLANGE		SWIVEL JOINT	○ T STRAINER	SERVICE DESCRIPTION → XXXX	EQUIPMENT NUMBERS OR UNIT NUMBER, → YYYY	BATTERY LIMIT		5. HOSE SHALL BE CAPABLE OF BENDING WITH A RADIUS OF 300 mm.
△ CHECK VALVE		II BLIND FLANGE		AIR ELIMINATOR VALVE	○ TEMPORARY STRAINER	SOURCE/DESTINATION	CONNECTION DRAWING NUMBER			6. HOSE SHALL BE KINK PROOF AND RESISTANT TO OIL AND WEATHERING.
△ WAFER CHECK VALVE		III EXPANDER FLANGE		AIR VACUUM RELEASE VALVE	Y STRAINER	OILY WATER SYSTEM DETAILS				7. HOSE COUPLING MATERIAL : BRASS OR CS.
△ PLUG VALVE		IV REDUCING FLANGE		CALIBRATION COLUMN	FILTER	SHOWN ON P&ID	DETAIL			8. TYPE (1) FOR AIR AND WATER : HALF UNIVERSAL QUICK RELEASE COUPLING - CLAW COUPLING. (2) FOR NITROGEN : DIX-LOCK QUICK COUPLING - LEVER COUPLING.
△ 3-WAY PLUG VALVE		V CLOSED SPECTACLE BLIND		VENT	STEAM TRAP	OFF-DRAWING CONNECTORS				9. EACH UTILITY STATION WILL SERVE FACILITIES WITHIN 30 m IN ALL DIRECTIONS (AT GRADE AND EVERY PLATFORM).
△ NEEDLE VALVE		VI OPEN SPECTACLE BLIND		DISTRIBUTOR	INLET AIR FILTER	SERVICE DESCRIPTION → XXXX	EQUIPMENT NUMBERS OR UNIT NUMBER, → YYYY			10. ALL SP ITEM & VALVE TAG NUMBERS IN UTILITY STATION SHALL BE PREFIXED BY PROJECT BREAK DOWN ID CODE (PP01). SYSTEM NO. IS AS BELOW;
△ BALL VALVE		VII BLIND SPACER		EJECTOR	BREATHER VENT	SOURCE/DESTINATION	CONNECTION DRAWING NUMBER			SERVICE WATER : 553 PLANT AIR : 563 NITROGEN : 567
△ BUTTERFLY VALVE		VIII OPEN SPACER		IN-LINE MIXER	EXHAUST HEAD	OILY WATER SYSTEM DETAILS				
△ ANGLE BLOWDOWN VALVE		IX TUNDISH/FUNNEL		BARRED TEE	FREE VENT W/O SCREEN	SHOWN ON P&ID	DETAIL			
△ BACK FLOW PREVENTER		X DIAPHRAGM SEAL		^ SPRAY NOZZLE	FREE VENT W/SCREEN	OFF-DRAWING CONNECTORS				
△ DELUGE VALVE		FIRE AND SAFETY		~ FLEXIBLE HOSE	IN-LINE SILENCER	OILY WATER SYSTEM DETAILS				
△ FOOT VALVE		FIRE HYDRANT W/MONITOR NOZZLE		□ MECHANICAL COUPLING	VENT SILENCER	SHOWN ON P&ID		FENCE (NOTE-1)		
△ HOSE VALVE		FIRE HYDRANT		RS REMOVABLE SPOOL	SIGHT GLASS	DETAIL		BATTERY LIMIT		
△ SPRING LOADED VALVE		3-WAY FIRE HYDRANT		SC SAMPLE CONNECTION	RING HEADER	OFF-DRAWING CONNECTORS				
△ DOUBLE BLOCK AND BLEED MONOFLANGE		FOAM CHAMBER		BIRD SCREEN	SAMPLE COOLER	OILY WATER SYSTEM DETAILS				
△ SINGLE BLOCK AND BLEED MONOFLANGE		FOAM HOSE REEL		INSULATION JOINT	INJECTION QUILL	SHOWN ON P&ID				
△ POST INDICATING TYPE GATE VALVE		HOSE RACK STATION		IG INSULATION GASKET	INSULATION GASKET	DETAIL				
LINE DESIGNATION		MAJOR PIPING (NEW)		TAG NOS.		OFF-DRAWING CONNECTORS				
— Secondary piping (new)		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
--- Heat tracing		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
.... Jacketed pipe		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
- Existing piping		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
- Future piping		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
PIPING INDICATORS		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
SLOPE		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
NO POCKET		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
A DIRECTION OF FLOW		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
B FLOW BOTH DIRECTIONS		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
UG AG POINT OF CHANGE IN LINE CLASS OR OTHER SPECIFICATION (e.g. INSULATION TYPE OR AG/UG TRANSITION)		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
ELEVATED FIRE MONITOR		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
REMOTELY OPERATED FIRE MONITOR		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
FOAM MONITOR		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
ELEVATED FOAM MONITOR		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
REMOTELY OPERATED FOAM MONITOR		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
FOAM POURER		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
SAFETY SHOWER AND EYE WASH		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
SAFETY SHOWER		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
EYE WASH		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
PRE-ACTION SPRINKLER		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
SPRAY SPRINKLER		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
WET SPRINKLER		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
INJECTION QUILL DETAILED ASSEMBLY		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
QUILL MOC VENDOR		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
CHEMICAL PIPING CLASS		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
0.75°		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
2° BLFG.		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
FLOW		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
SPG TXTP		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
REVISION CLOUD WITH REVISION TRIANGLE		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				
SUPPLIER PACKAGE		TAG NOS.		TAG NOS.		OFF-DRAWING CONNECTORS				