

KEY

(SYMBOLS COMPLY WITH BS1553-1)

VALVES	INSTRUMENTS	HEAT EXCHANGE	PIPELINE FEATURES	PUMPS/COMPRESSORS	VESSELS
IN-LINE (ANY TYPE)	PRESSURE GAUGE	HEATER/COOLER UNIT	DISCHARGE TO ATMOSPHERE	PUMP/COMPRESSOR	REACTION OR ABSORPTION VESSEL
RELIEF (IN-LINE)	LIQUID LEVEL	COOLER UNIT	JUNCTION	AXIAL FLOW FAN	
CHECK (NON-RETURN)	MEASURING INSTRUMENT	HEAT EXCHANGER	FLAME ARRESTER	TURBO PUMP	DRUM OR SIMPLE PRESSURE VESSEL
BURSTING DISC	METER (ANY TYPE)	HEAT EXCHANGER (ALTERNATIVE)	PIPE BORE CHANGE	SCROLL PUMP	
DIAPHRAGM ACTUATED PNEUMATIC VALVE (CLOSES ON FAILURE)	TEMPERATURE SENSOR	ELECTRICAL HEATER	DIRECTION OF FLOW	ROTARY PUMP	GAS BOTTLE
DIAPHRAGM ACTUATED PNEUMATIC VALVE (OPENS ON FAILURE)	FLOW METER	HEATING/COOLING LINE	SCREWED JOINT		
DIAPHRAGM ACTUATED CONTROL VALVE (CLOSES ON FAILURE)	HYDROGEN DETECTOR		QUICK RELEASE CONNECTION		
DIAPHRAGM ACTUATED CONTROL VALVE (OPENS ON FAILURE)	VACUUM GAUGE		EXPANSION JOINT		
MANUAL ACTING VALVE	METER (ANY TYPE, TWO POINTS OF MEASUREMENT)		EXTRACTOR HOOD		
PRESSURE REGULATOR			NITROGEN JACKETING		
SCREW DOWN VALVE			FLANGED AND BOLTED CONNECTION		
ELECTRICALLY ACTUATED CONTROL VALVE (CLOSES ON POWER FAILURE)			FILTER		
			BUBBLER		

LINE TYPES

PHYSICAL BOUNDARIES	
GROUPING OF COMPONENTS	
WORKING LINE	
HYDROGEN LINE	
HELIUM LINE	
NITROGEN LINE	

ELECTRICAL LINE

ISSUE	DATE	MOD. NO.	DRN. BY	CHKD.	APPD.	STATUS
TOLERANCES UNLESS STATED			FINISH		DO NOT SCALE	
MATERIAL & SPEC.			REMOVE ALL BURRS		SURFACE TEXTURE µm	
			✓ UNLESS STATED			
USED ON					STFC 2015	
CCLRC			RUTHERFORD APPLETON LABORATORY, CHELTON, GLOUCESTERSHIRE, GL51 9EQ			
TITLE						
A0-TD-1085-100-02						

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