ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L75522 – FLOW CONTROL DEVICE

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1 Introduction

Not Applicable

1.1 Asset Details

Class Code:	L75522
Class Name:	Flow Control Device
Class Lineage:	Construction Products>Services>Climate Control Plant and Equipment (HVAC)>Measuring, Detection and Control Devices>Plant and Services Control>Flow Control Device

1.2 Description

A Flow Control Device is a form of valve that allows the flow of liquid to be controlled in terms of amount, velocity and direction. The flow device may stop the flow altogether, reduce/increase the amount of passing liquid, control velocity and the direction of flow. A flow control device is different to a flow control switch as a switch only allows the flow to be turned on or off and not the direction. Flow Control devices may be used in, water supply and heating & cooling systems.

1.3 Related Functions

All information on the configuration of asset classes (L-Class) to functions is contained within the latest revision of the Asset Data Dictionary Master Configuration document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

2 Asset Tag Identification Rules

Assets will be identified as required by the Asset Identification Standard (CRL1-XRL-O6-STD-CR001-00031), in the following format:

<LCS Code>-<Function Code>-<Incremental number to ensure uniqueness>

e.g. C125-TSP-12345

Information and guidance on the standard naming convention for all asset classes is contained within the latest revision of the Asset Naming Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

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2.1 Example Images

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3 Attributes

3.1 Generic Attributes

All Classes of assets will have a set of Generic Attributes for which data is collected without exception. Full details relating to these assets can be found at:

AD4 – Generic Attributes CRL1-XRL-Z3-ADDSD-CR001-50069

3.2 Class Specific Attributes

Below is a table of the further specific attributes which are associated with this asset class.

Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
System Use		CH			Primary use of device e.g. water supply, heating, flow regulation etc.
Duty Flow (litres/Sec)	Litres/Sec	NU	2		Maximum flow capacity of device
Coupling Connection Method		PD		Push Fit Glued Welded Brazed Soldered Threaded	Connection method of device to pipe work.
Pipe Diameter (Millimetres)	Millimetres	NU	0		Internal diameter of pipe; determines the volumetric flow rate and heat exchange rates.
Pressure Drop (Kilopascals)	Kilopascals	NU	2		The difference in pressure between two points of a fluid carrying network.

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Back Pressure Protection		PD		N/A 1 2 3 4 5	Pressure opposing the desired flow of a fluid in a pipe caused by the pressure of the supply being less than that within the system. Category 1: No risk. Potable water Category 2: Aesthetic quality affected, e.g. water which may have been heated Category 3: Slight hazard from substances of low toxicity, e.g. cold water storage tanks Category 4: Significant hazard, e.g. pesticides Category 5: Serious health risk, e.g. human waste
Back Siphonage Protection		PD		N/A 1 2 3 4 5	Occurs as a result of low supply pressure, often the result of pipework being physically lower than a storage tank or caused by break in flow or negative pressure of flow. Category 1: No risk. Potable water Category 2: Aesthetic quality affected, e.g. water which may have been heated Category 3: Slight hazard from substances of low toxicity, e.g. cold water storage tanks Category 4: Significant hazard, e.g. pesticides Category 5: Serious health risk, e.g. human waste

pd = Predefined List (Listed Values Only)

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nu = Numeric (dp and number format can be stipulated)
ch = Free text (Max 255 Characters)
da = Date (dd-mm-yyyy)
me = Memo (Free text 1GB Limit)

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4 Performance Data

This section is to be used to specify the performance data to be gathered from this Class of asset when in operation. To be populated once the performance measures have been agreed with the Infrastructure Managers.

5 Labelling

Information and guidance on the standard labelling convention for all asset classes is contained within the latest revision of the Asset Naming and Labelling Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

6 Other Information

Not Applicable

7 Reference Material

- Asset Data Dictionary Master Configuration document - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard - CRL1-XRL-O6-STD-CR001-00031
- AD4 – Generic Attributes - CRL1-XRL-Z3-ADDSD-CR001-50069
- <ADD OTHER REFERENCE DOCUMENTS HERE>

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8 Crossrail Technical Approvals

Name	Role	Date
[redacted]	Lead Mechanical & Electrical Plant (MEP) Engineer	17-Oct-2014

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