

VALVE SIZING / SAMPLE BATCH

Illustrative records for the Impossible Zone automation prototype

RECORD 01 / 03

PROJECT: North Line / PRV-204

SERVICE: Steam header protection

MEDIUM: Saturated steam

VALVE TYPE: Pressure relief

INLET SIZE: 80 mm

OUTLET SIZE: 100 mm

SET PRESSURE: 12.4 bar

REQUIRED FLOW: 8200 kg/h

TEMPERATURE: 210 deg C

BODY MATERIAL: Carbon steel

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RECORD 02 / 03

PROJECT: **Cooling Loop / CV-118**

SERVICE: **Cooling water flow control**

MEDIUM: **Cooling water**

VALVE TYPE: **Globe control**

INLET SIZE: **125 mm**

OUTLET SIZE: **150 mm**

SET PRESSURE: **8.2 bar**

REQUIRED FLOW: **6300 kg/h**

TEMPERATURE: **72 deg C**

BODY MATERIAL: **Stainless steel**

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RECORD 03 / 03

PROJECT: **Air Header / PRV-316**

SERVICE: **Compressed air protection**

MEDIUM: **Compressed air**

VALVE TYPE: **Pressure relief**

INLET SIZE: **50 mm**

OUTLET SIZE: **65 mm**

SET PRESSURE: **18 bar**

REQUIRED FLOW: **2400 kg/h**

TEMPERATURE: **35 deg C**

BODY MATERIAL: **Alloy steel**