

# Installation & Operating Manual



ART 20C
Pressure Independent
Control Valve (PICV)

Albion Valves (UK) Ltd

www.albionvalvesuk.com

Email: sales@albionvalvesuk.com

Tel: 01226 729900



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#### 1. Introduction

- Albion Valves (UK) Ltd ART 20C is a Pressure Independent Control Valve (PICV) which can be used to regulate the pressure differential in a circuit and to control the amount of fluid flowing through it.
- Thanks to their unique design, PICV's can perform flow regulation, differential pressure control and modulation for comfort control.

## Flow Regulation

When an electric actuator is not present or the plastic cap has been removed, the valve is normally open. But if the plastic cap is screwed on, or an electric actuator is installed, the spring forces the valve to close. The inlet water passes through a modulating control component whose geometry can be modified by turning the pre-setting dial to obtain the required flow rate for the branch of the system where the valve is installed.

#### **Differential Pressure Control**

PICV maintains steady flow rate even when there are pressure fluctuations. The DPC bonnet has two different pressures. The first one is in the passage connecting the valve inlet to the upper section of the valve (see hydraulic diagram); the second one is at the valve outlet near the "pa" flow rate selecting device. In order to maintain these pressure differences, the DPC bonnet obturator restricts the bore of the water outlet to achieve the pre-set flow rate, even if the pressures in the system fluctuate.

#### Modulation

Full authority" flow rate modulation for room temperature control; The actuator performs the modulating function changing the section of flow passage.

When continuous modulation is carried out, the temperature is kept under control. ART 20C keeps the same obturator stroke, regardless of the presetting dial position. With continuous modulation, control is excellent even with small flow openings and this eliminates the on/off effect.

Constant flow is obtained through the valve, despite pressure fluctuations. By simply measuring differential pressure across the valve, the flow through the cartridge is obtained as follows:



If measured differential pressure is above  $\Delta p$  min (start-up pressure), the flow rate is the same as the one stated on the valve table (function) of the pre-set;

If measured differential pressure is below minimum  $\Delta p$  min stated on valve table, flow rate is calculated using the following formula:

Q=Kvs 
$$\frac{\sqrt{\Delta p}}{r}$$

Where:

Q is the flow rate in m3/h, r is the relative density,  $\Delta p$  is the pressure drop across the valve; Kvs - Kv across the valve when it is fully open

The ART 20C has been classified in accordance with PED 2014/68/EU.

#### 2. Technical Data

| Valve Type   | Size Range    | Connection Type | Temperature<br>Rating | Pressure Rating (Max) |  |
|--------------|---------------|-----------------|-----------------------|-----------------------|--|
| ART 20C PN25 | DN 15 – DN 25 | ISO 228/1       | -10°C – 120°C         | 25 bar                |  |

| Size             | 10LF        | 10HF        | 15LF        | 15HF        | 20HF        | 25HF        |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Δp Range<br>KPa  | 16-400      | 16.5-400    | 16.5-400    | 19.5-400    | 26-400      | 37-400      |
| Flow Range (I/s) | 0.012-0.042 | 0.024-0.097 | 0.024-0.097 | 0.027-0.134 | 0.042-0.250 | 0.076-0.447 |
| Kvs              | 0.37        | 0.86        | 0.86        | 1.09        | 1.77        | 2.65        |

Albion Valves (UK) Ltd recommend that any ART 20C PICV are sized prior to installation to ensure the correct valve selection.

#### 3. Valve Features

- The ART 20C PICV can be used in conjunction with multiple actuators to open, close and modulate the valve.
- Motorised Actuators
  - o C21V 24V AC 3 position control
  - o C22V 230V 3 position control
  - o C23E 24V AC 0-10V DC control



| Model             | C23E           | C21V        | C22V        |
|-------------------|----------------|-------------|-------------|
| Technical Code    | ADPI20C23EN    | ADPI20C21VN | ADPI20C22VN |
| Voltage           | 24 V AC        | 24 V AC     | 230V Ac     |
| Control Signal    | 0-10Vdc/4-20mA | 3 position  | 3 position  |
| Frequency         | 50Hz           | 50Hz        | 50Hz        |
| Power             | 5 VA           | 5 VA        | 5 VA        |
| Open / Close Time | 18.5 sec/mm    | 18.5 sec/mm | 18.5 sec/mm |
| IP Rating         | IP54           | IP54        | IP54        |
| Actuator Stroke   | 6.5 mm         | 6.5 mm      | 6.5 mm      |
| Actuator Force    | 200 N          | 200 N       | 200 N       |
| Cable Length      | 1m             | 1m          | 1m          |
| Connection        | M30x1.5        | M30x1.5     | M30x1.5     |

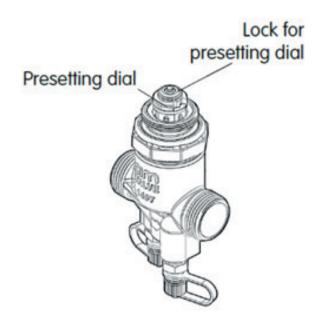
#### 4. Valve Installation

- The valve should be sited to ensure ease of access.
- It is the responsibility of the installer to ensure the valve is suitable for service conditions e.g., temperature, pressure, and service media.
- It is the responsibility of the installer to ensure that the required flow rate is within the valves operating range.
- Where fitted, remove flange protectors / dust caps and all other packaging material.
- Care should be taken to ensure the surface finish of the valve is protected during installation.
- The valves may be installed in horizontal or vertical pipework, but the actuator must never be sited underneath the valve.
- The valve is uni-directional and should only be used for flow in the direction shown on the valve.
- Suitable gaskets / sealing material should be used during installation.
- When setting the valve, the valve can be set by rotating the adjustment knob which sits underneath the cap.



### 5. Balancing

• Remove the plastic cap from the top of the valve. Turn the pre-set dial (see picture) so that the mark on the rotating part matches the value indicated on the fixed part of the device (1,2,3,etc.) which corresponds to the required flow rate. Do not exceed the set operating range (1-5).



- The relation between the setting dial, and flow rates can be found in the tables below.
- Using a differential manometer, check that the differential pressure is higher or the same
  as the minimum value reported in the tables. The differential manometer interfaces with the
  balancing valve through the two binder points of the valve. When balancing is achieved,
  lock the pre-setting dial by screwing it down completely, preventing it from
  being unintentionally rotated.



# ART 20C LF - 1/2" DN10 - Pre-set Values

| Pre          | -Set  | 1.0   | 1.2   | 1.4   | 1.6   | 1.8      | 2.0   |
|--------------|-------|-------|-------|-------|-------|----------|-------|
| <b>E</b> 1   | l/h   | 43    | 47    | 55    | 63    | 72       | 79    |
| Flow<br>Rate | l/s   | 0.012 | 0.013 | 0.015 | 0.018 | 0.020    | 0.022 |
| nate         | GPM   | 0.19  | 0.21  | 0.24  | 0.28  | 0.32     | 0.35  |
| Min ∆        | p kPa | 15    | 15    | 15    | 15    | 15       | 15    |
| K            | vs    | 0.11  | 0.12  | 0.14  | 0.16  | 0.18     | 0.20  |
|              |       | Υ     | 1     |       |       | <b>-</b> |       |
| Pre          | -Set  | 2.0   | 2.2   | 2.4   | 2.6   | 2.8      | 3.0   |
|              | l/h   | 79    | 85    | 90    | 93    | 96       | 99    |
| Flow<br>Rate | l/s   | 0.022 | 0.024 | 0.025 | 0.026 | 0.027    | 0.027 |
| nate         | GPM   | 0.35  | 0.37  | 0.40  | 0.41  | 0.42     | 0.43  |
| Min Δ        | p kPa | 15    | 15    | 15    | 15    | 15       | 16    |
| K            | vs    | 0.20  | 0.22  | 0.23  | 0.24  | 0.24     | 0.25  |
|              |       | ,     | ı     |       | ı     | T        | 1     |
| Pre          | -Set  | 3.0   | 3.2   | 3.4   | 3.6   | 3.8      | 4.0   |
| F1           | l/h   | 99    | 101   | 104   | 108   | 113      | 119   |
| Flow<br>Rate | l/s   | 0.027 | 0.028 | 0.029 | 0.030 | 0.031    | 0.033 |
| riate        | GPM   | 0.43  | 0.45  | 0.46  | 0.48  | 0.50     | 0.52  |
| Min Δ        | p kPa | 16    | 16    | 16    | 16    | 16       | 16    |
| K            | vs    | 0.25  | 0.25  | 0.26  | 0.27  | 0.28     | 0.30  |
|              |       | Υ     | 1     |       |       | Γ        | ,     |
| Pre          | -Set  | 4.0   | 4.2   | 4.4   | 4.6   | 4.8      | 5.0   |
| Flour        | l/h   | 119   | 126   | 133   | 140   | 146      | 150   |
| Flow<br>Rate | l/s   | 0.033 | 0.035 | 0.037 | 0.039 | 0.040    | 0.042 |
| nate         | GPM   | 0.52  | 0.55  | 0.59  | 0.62  | 0.64     | 0.66  |
| Min Δ        | p kPa | 16    | 16    | 16    | 16    | 16       | 16    |
| K            | vs    | 0.30  | 0.31  | 0.33  | 0.35  | 0.36     | 0.37  |



# ART 20C HF - 1/2" DN10 - Pre-set Values

| Pre          | -Set  | 1.0   | 1.2   | 1.4   | 1.6   | 1.8   | 2.0   |
|--------------|-------|-------|-------|-------|-------|-------|-------|
| <b>F</b> 1   | l/h   | 86    | 102   | 122   | 143   | 172   | 194   |
| Flow<br>Rate | l/s   | 0.024 | 0.028 | 0.034 | 0.040 | 0.048 | 0.054 |
| nate         | GPM   | 0.38  | 0.45  | 0.54  | 0.63  | 0.76  | 0.85  |
| Min ∆        | p kPa | 13    | 13    | 13.5  | 13.5  | 14    | 14    |
| K            | vs    | 0.24  | 0.28  | 0.33  | 0.39  | 0.46  | 0.52  |
|              |       |       |       |       |       |       |       |
| Pre          | -Set  | 2.0   | 2.2   | 2.4   | 2.6   | 2.8   | 3.0   |
| <b>F</b> 1   | l/h   | 194   | 217   | 232   | 238   | 254   | 259   |
| Flow<br>Rate | l/s   | 0.054 | 0.060 | 0.064 | 0.066 | 0.071 | 0.072 |
| nate         | GPM   | 0.85  | 0.96  | 1.02  | 1.05  | 1.12  | 1.14  |
| Min ∆        | p kPa | 14    | 14    | 14    | 14.5  | 14.5  | 14.5  |
| K            | vs    | 0.52  | 0.58  | 0.62  | 0.62  | 0.67  | 0.68  |
|              |       | 1     | T     |       |       |       |       |
| Pre          | -Set  | 3.0   | 3.2   | 3.4   | 3.6   | 3.8   | 4.0   |
| <b>F</b> 1   | l/h   | 259   | 266   | 280   | 281   | 288   | 294   |
| Flow<br>Rate | l/s   | 0.072 | 0.074 | 0.078 | 0.078 | 0.080 | 0.082 |
| nate         | GPM   | 1.14  | 1.17  | 1.23  | 1.24  | 1.27  | 1.29  |
| Min ∆        | p kPa | 14.5  | 14.5  | 15    | 15    | 15    | 15    |
| K            | vs    | 0.68  | 0.70  | 0.72  | 0.73  | 0.74  | 0.76  |
|              |       | T     | T     |       |       |       | T     |
| Pre          | -Set  | 4.0   | 4.2   | 4.4   | 4.6   | 4.8   | 5.0   |
| Flour        | l/h   | 294   | 298   | 300   | 304   | 314   | 347   |
| Flow<br>Rate | l/s   | 0.082 | 0.083 | 0.083 | 0.084 | 0.087 | 0.097 |
| Hate         | GPM   | 1.29  | 1.31  | 1.32  | 1.34  | 1.38  | 1.53  |
| Min Δ        | p kPa | 15    | 15.5  | 15.5  | 15.5  | 16    | 16.5  |
| K            | vs    | 0.76  | 0.76  | 0.76  | 0.77  | 0.78  | 0.86  |



## ART 20C LF - 3/4" DN15 - Pre-set Values

| Pre          | -Set  | 1.0   | 1.2   | 1.4   | 1.6   | 1.8      | 2.0      |
|--------------|-------|-------|-------|-------|-------|----------|----------|
|              | l/h   | 86    | 102   | 122   | 143   | 172      | 194      |
| Flow<br>Rate | l/s   | 0.024 | 0.028 | 0.034 | 0.040 | 0.048    | 0.054    |
| nate         | GPM   | 0.38  | 0.45  | 0.54  | 0.63  | 0.76     | 0.85     |
| Min ∆        | p kPa | 13    | 13    | 13.5  | 13.5  | 14       | 14       |
| K            | vs    | 0.24  | 0.28  | 0.33  | 0.39  | 0.46     | 0.52     |
|              |       | 1     |       |       |       | <b>-</b> |          |
| Pre          | -Set  | 2.0   | 2.2   | 2.4   | 2.6   | 2.8      | 3.0      |
| <b>F</b> 1   | l/h   | 194   | 217   | 232   | 238   | 254      | 259      |
| Flow<br>Rate | l/s   | 0.054 | 0.060 | 0.064 | 0.066 | 0.071    | 0.072    |
| nate         | GPM   | 0.85  | 0.96  | 1.02  | 1.05  | 1.12     | 1.14     |
| Min ∆        | p kPa | 14    | 14    | 14    | 14.5  | 14.5     | 14.5     |
| K            | vs    | 0.52  | 0.58  | 0.62  | 0.62  | 0.67     | 0.68     |
|              |       | 1     |       |       |       |          |          |
| Pre          | -Set  | 3.0   | 3.2   | 3.4   | 3.6   | 3.8      | 4.0      |
| <b>F</b> la  | l/h   | 259   | 266   | 280   | 281   | 288      | 294      |
| Flow<br>Rate | l/s   | 0.072 | 0.074 | 0.078 | 0.078 | 0.080    | 0.082    |
| riate        | GPM   | 1.14  | 1.17  | 1.23  | 1.24  | 1.27     | 1.29     |
| Min ∆        | p kPa | 14.5  | 14.5  | 15    | 15    | 15       | 15       |
| K            | vs    | 0.68  | 0.70  | 0.72  | 0.73  | 0.74     | 0.76     |
|              |       | 1     |       |       |       | Г        | <u> </u> |
| Pre          | -Set  | 4.0   | 4.2   | 4.4   | 4.6   | 4.8      | 5.0      |
| Flour        | l/h   | 294   | 298   | 300   | 304   | 314      | 347      |
| Flow<br>Rate | l/s   | 0.082 | 0.083 | 0.083 | 0.084 | 0.087    | 0.097    |
|              | GPM   | 1.29  | 1.31  | 1.32  | 1.34  | 1.38     | 1.53     |
| Min ∆        | p kPa | 15    | 15.5  | 15.5  | 15.5  | 16       | 16.5     |
| K            | vs    | 0.76  | 0.76  | 0.76  | 0.77  | 0.78     | 0.86     |



# ART 20C HF - 3/4" DN15 - Pre-set Values

| Pre          | -Set  | 1.0      | 1.2      | 1.4   | 1.6   | 1.8   | 2.0   |
|--------------|-------|----------|----------|-------|-------|-------|-------|
| Flow<br>Rate | l/h   | 96       | 112      | 135   | 155   | 179   | 192   |
|              | l/s   | 0.027    | 0.031    | 0.037 | 0.043 | 0.050 | 0.053 |
| nate         | GPM   | 0.42     | 0.49     | 0.59  | 0.68  | 0.79  | 0.85  |
| Min ∆        | p kPa | 12.5     | 12.5     | 12.5  | 13    | 13    | 13    |
| K            | vs    | 0.27     | 0.32     | 0.38  | 0.43  | 0.50  | 0.53  |
|              |       | Г        |          |       |       |       |       |
| Pre          | -Set  | 2.0      | 2.2      | 2.4   | 2.6   | 2.8   | 3.0   |
| <b>-</b> 1   | l/h   | 192      | 210      | 234   | 235   | 260   | 261   |
| Flow<br>Rate | l/s   | 0.053    | 0.058    | 0.065 | 0.065 | 0.072 | 0.072 |
| nate         | GPM   | 0.85     | 0.92     | 1.03  | 1.03  | 1.14  | 1.15  |
| Min ∆        | p kPa | 13       | 13       | 13.5  | 13.5  | 14    | 14    |
| K            | vs    | 0.53     | 0.58     | 0.64  | 0.64  | 0.69  | 0.70  |
|              |       | <b>T</b> | <u> </u> |       |       |       |       |
| Pre          | -Set  | 3.0      | 3.2      | 3.4   | 3.6   | 3.8   | 4.0   |
| <b>-</b>     | l/h   | 261      | 262      | 271   | 284   | 318   | 343   |
| Flow<br>Rate | l/s   | 0.072    | 0.073    | 0.075 | 0.079 | 0.088 | 0.095 |
| riate        | GPM   | 1.15     | 1.15     | 1.19  | 1.25  | 1.40  | 1.51  |
| Min ∆        | p kPa | 14       | 14       | 15    | 16    | 17    | 17.5  |
| K            | vs    | 0.70     | 0.70     | 0.70  | 0.71  | 0.77  | 0.82  |
|              |       | T        |          |       |       |       |       |
| Pre          | -Set  | 4.0      | 4.2      | 4.4   | 4.6   | 4.8   | 5.0   |
| Flore        | l/h   | 343      | 409      | 440   | 456   | 476   | 483   |
| Flow<br>Rate | l/s   | 0.095    | 0.114    | 0.122 | 0.127 | 0.132 | 0.134 |
|              | GPM   | 1.51     | 1.80     | 1.94  | 2.01  | 2.10  | 2.13  |
| Min Δ        | p kPa | 17.5     | 18       | 18.5  | 19    | 19.5  | 19.5  |
| K            | vs    | 0.82     | 0.96     | 1.02  | 1.05  | 1.08  | 1.09  |



## ART 20C HF - 1" DN20 - Pre-set Values

| Pre          | -Set  | 1.0   | 1.2   | 1.4   | 1.6   | 1.8      | 2.0      |
|--------------|-------|-------|-------|-------|-------|----------|----------|
| <b></b>      | l/h   | 150   | 200   | 244   | 259   | 273      | 315      |
| Flow<br>Rate | l/s   | 0.042 | 0.056 | 0.068 | 0.072 | 0.076    | 0.088    |
| nate         | GPM   | 0.66  | 0.88  | 1.07  | 1.14  | 1.20     | 1.39     |
| Min Δ        | p kPa | 18    | 18    | 18.5  | 18.5  | 19       | 19       |
| K            | vs    | 0.35  | 0.47  | 0.57  | 0.60  | 0.63     | 0.72     |
|              |       | 1     |       |       |       | <b>-</b> |          |
| Pre          | -Set  | 2.0   | 2.2   | 2.4   | 2.6   | 2.8      | 3.0      |
| <b>F</b> 1   | l/h   | 315   | 350   | 370   | 380   | 390      | 425      |
| Flow<br>Rate | l/s   | 0.088 | 0.097 | 0.103 | 0.106 | 0.108    | 0.118    |
| nate         | GPM   | 1.39  | 1.54  | 1.63  | 1.67  | 1.72     | 1.87     |
| Min ∆        | p kPa | 19    | 19    | 19    | 19    | 19       | 19       |
| K            | vs    | 0.72  | 0.80  | 0.85  | 0.87  | 0.89     | 0.98     |
|              |       | ·     |       |       |       | <b>.</b> |          |
| Pre          | -Set  | 3.0   | 3.2   | 3.4   | 3.6   | 3.8      | 4.0      |
| F1           | l/h   | 425   | 456   | 475   | 502   | 545      | 590      |
| Flow<br>Rate | l/s   | 0.118 | 0.127 | 0.132 | 0.139 | 0.151    | 0.164    |
| nate         | GPM   | 1.87  | 2.01  | 2.09  | 2.21  | 2.40     | 2.62     |
| Min Δ        | p kPa | 19    | 20    | 20    | 21    | 21       | 23       |
| K            | vs    | 0.98  | 1.02  | 1.06  | 1.10  | 1.19     | 1.23     |
|              |       | ·     |       |       |       | Γ        | <b>-</b> |
| Pre          | -Set  | 4.0   | 4.2   | 4.4   | 4.6   | 4.8      | 5.0      |
| Flour        | l/h   | 590   | 610   | 690   | 812   | 885      | 900      |
| Flow<br>Rate | l/s   | 0.164 | 0.169 | 0.192 | 0.226 | 0.246    | 0.250    |
| nate         | GPM   | 2.62  | 2.69  | 3.04  | 3.58  | 3.90     | 3.96     |
| Min Δ        | p kPa | 23    | 23    | 24    | 25    | 26       | 26       |
| K            | vs    | 1.23  | 1.27  | 1.41  | 1.62  | 1.74     | 1.77     |



# ART 20C HF - 1 1/4" DN25 - Pre-set Values

| Pre          | -Set  | 1.0   | 1.2   | 1.4   | 1.6   | 1.8   | 2.0   |
|--------------|-------|-------|-------|-------|-------|-------|-------|
| F.           | l/h   | 272   | 352   | 400   | 428   | 490   | 592   |
| Flow<br>Rate | l/s   | 0.076 | 0.098 | 0.111 | 0.119 | 0.136 | 0.164 |
| nate         | GPM   | 1.20  | 1.55  | 1.76  | 1.88  | 2.16  | 2.61  |
| Min ∆        | p kPa | 18    | 18    | 19    | 19    | 20    | 20    |
| K            | vs    | 0.64  | 0.83  | 0.92  | 0.98  | 1.10  | 1.32  |
|              |       | Υ     | ,     |       |       |       |       |
| Pre          | -Set  | 2.0   | 2.2   | 2.4   | 2.6   | 2.8   | 3.0   |
| FL           | l/h   | 592   | 645   | 700   | 740   | 770   | 882   |
| Flow<br>Rate | l/s   | 0.164 | 0.179 | 0.194 | 0.206 | 0.214 | 0.245 |
| nate         | GPM   | 2.61  | 2.84  | 3.08  | 3.26  | 3.39  | 3.88  |
| Min ∆        | p kPa | 20    | 21    | 22    | 23    | 24    | 25    |
| K            | vs    | 1.32  | 1.41  | 1.49  | 1.54  | 1.57  | 1.76  |
|              |       |       |       |       |       |       |       |
| Pre          | -Set  | 3.0   | 3.2   | 3.4   | 3.6   | 3.8   | 4.0   |
|              | l/h   | 882   | 920   | 950   | 1046  | 1160  | 1200  |
| Flow<br>Rate | l/s   | 0.245 | 0.256 | 0.264 | 0.291 | 0.322 | 0.333 |
| nate         | GPM   | 3.88  | 4.05  | 4.18  | 4.61  | 5.11  | 5.28  |
| Min ∆        | p kPa | 25    | 25    | 26    | 26    | 27    | 27    |
| K            | vs    | 1.76  | 1.84  | 1.86  | 2.05  | 2.23  | 2.31  |
|              |       |       |       |       |       |       |       |
| Pre          | -Set  | 4.0   | 4.2   | 4.4   | 4.6   | 4.8   | 5.0   |
|              | l/h   | 1200  | 1260  | 1345  | 1400  | 1540  | 1610  |
| Flow<br>Rate | l/s   | 0.333 | 0.350 | 0.374 | 0.389 | 0.428 | 0.447 |
| nate         | GPM   | 5.28  | 5.55  | 5.92  | 6.16  | 6.78  | 7.09  |
| Min ∆        | p kPa | 27    | 28    | 31    | 32    | 35    | 37    |
| K            | vs    | 2.31  | 2.38  | 2.42  | 2.47  | 2.60  | 2.65  |



### 6. Approvals Classification

• The valve is classified in accordance with PED 2014/68/EU as Sound Engineering Practice (SEP).

## 7. Troubleshooting

- If any maintenance is to be undertaken on the valve it is the responsibility of the installer to ensure the system is adequately drained and depressurized.
- A full risk assessment should be undertaken prior to any works taking place.

## 8. Warranty

• For further details of Albion Valves (UK) Ltd warranty period, please refer to Albion Valves (UK) Ltd 'Conditions of Sale' available on our website.



# **About Albion Valves (UK) Ltd**

Albion has been supplying valves and fittings to the building services and industrial markets for the past 40 years.

Albion was created with the sole purpose of providing quality products at an affordable price. With a growing reputation for quality and reliability, Albion is now an established brand providing the industry with a trusted alternative to premium-priced products.

Our commitment to setting the highest standards in all areas of our business means, if you're looking for quality, service, delivery and choice — you'll find it's all at Albion.

## Quality

Whatever you need, you can rest assured that if it comes from Albion it has been designed and manufactured to deliver optimum performance and is accredited with the necessary approvals. Our inhouse quality department are always on hand too!

## **Service**

We pride ourselves on our customer service – we have even won awards for it! Our cradle to grave approach means you will never be on your own!

# **Delivery**

We know that time is money, and when a priority project depends on a part you can trust Albion to deliver – next day for all orders placed before 4:00PM.

#### Choice

We may have started out with a single brass ball valve, but our range has grown substantially since and we now consider ourselves to be a 'One Stop Shop' with our comprehensive range. It is becoming more and more apparent to the industry, that it really is all at Albion.