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## FlowCon Topic Letter

### The High-Performance World is Composite

#### Why Use Composite?

All new and exciting products including anything ranging from super cars to spaceships are nowadays including composite materials to reach new heights in **performance** and at the same time keep **weight** low.

#### Composite in FlowCon valves

At FlowCon we have for years offered similar high-performance with our HVAC valves:

- Pressure Independent Control Valves (PICVs)
- Pressure Independent  $\Delta T$  Control Valves (PITCVs) also known as energy valves in the market
- Differential Pressure Control Valves (DPCVs)
- Temperature Control Valves (TCVs)
- Dynamic / Automatic Balancing Valves (ABVs)
- Thermostatic valves

They all include composite material which is proven **stable** and **durable** in HVAC systems as well and ensures **long life** expectancy.

On page 2, we have gathered the information in a simple overview. For more details we refer to the product technical literature.

#### Need more Information?

We hope that this Topic Letter has given useful insight to the topic. A good supplement could be FlowCon's Topic Letter on 'Composite Perks in PICVs'. Or feel free to contact FlowCon for further assistance or any clarification here:

<https://flowcon.com/about-flowcon/contact-us>

| Model  | ABS<br><i>Acrylonitrile<br/>Butadiene<br/>Styrene</i> | PA<br><i>Polyamide</i> | PC<br><i>Poly-<br/>Carbonate</i> | POM<br><i>Polyoxy-<br/>Methylene</i> | PE<br><i>Poly-<br/>Ethylene</i> | PPE<br><i>Poly-<br/>Phenylene<br/>Ether</i> | PPS<br><i>Poly-<br/>Phenylene<br/>Sulfide</i> | PSU<br><i>Poly-<br/>Sulfone</i> |
|--|---|------------------------|----------------------------------|--------------------------------------|---------------------------------|---|---|---------------------------------|
| <b>• Pressure Independent Control Valves, PICVs</b>                        |   |                        |                                  |                                      |                                 |   |   |                                 |
| FlowCon Green.0/1/1HF/2  | X   |                        | X                                | X                                    |                                 |   | X   |                                 |
| FlowCon Green.3  |   |                        | X                                | X                                    |                                 |   | X   | X                               |
| FlowCon GreEQ  | X   |                        | X                                | X                                    |                                 |   | X   |                                 |
| FlowCon SM   |   | X                      | X                                | X                                    | X                               |   | X   |                                 |
| FlowCon Essentia   |   |                        | X                                | X                                    |                                 |   | X   |                                 |
| <b>• Pressure Independent <math>\Delta T</math> Control Valves, PITCVs</b> |   |                        |                                  |                                      |                                 |   |   |                                 |
| FlowCon FIT-G.0/1/2  | X   |                        | X                                | X                                    |                                 |   | X   |                                 |
| FlowCon FIT-G.3  |   |                        | X                                | X                                    |                                 |   | X   | X                               |
| FlowCon FIT  |   | X                      | X                                | X                                    | X                               |   | X   |                                 |
| <b>• Differential Pressure Control Valves, DPCVs</b>                       |   |                        |                                  |                                      |                                 |   |   |                                 |
| FlowCon EDP  | X   |                        |                                  | X                                    |                                 |   | X   |                                 |
| FlowCon SDP  |   |                        |                                  | X                                    |                                 |   | X   |                                 |
| FlowCon ADP  | X   |                        | X                                | X                                    |                                 |   | X   |                                 |
| FlowCon S-JUST   | X   |                        |                                  | X                                    |                                 | X   |   |                                 |
| <b>• Temperature Control Valves, TCVs</b>                                  |   |                        |                                  |                                      |                                 |   |   |                                 |
| FlowCon EVS  |   |                        |                                  | X                                    |                                 |   |   |                                 |
| <b>• Dynamic Balancing Valves, ABVs</b>                                    |   |                        |                                  |                                      |                                 |   |   |                                 |
| FlowCon E-JUST   | X   |                        |                                  | X                                    |                                 |   | X   | X                               |
| FlowCon Composite  |   |                        |                                  | X                                    |                                 |   | X   |                                 |
| FlowCon SH   |   | X                      | X                                | X                                    |                                 |   | X   |                                 |
| <b>• Thermostatic valves</b>   |   |                        |                                  |                                      |                                 |   |   |                                 |
| FlowCon T-JUST   | X   | X                      |                                  | X                                    |                                 |   | X   |                                 |

Table 1: Composite Material in FlowCon valves  
Source: FlowCon Data