

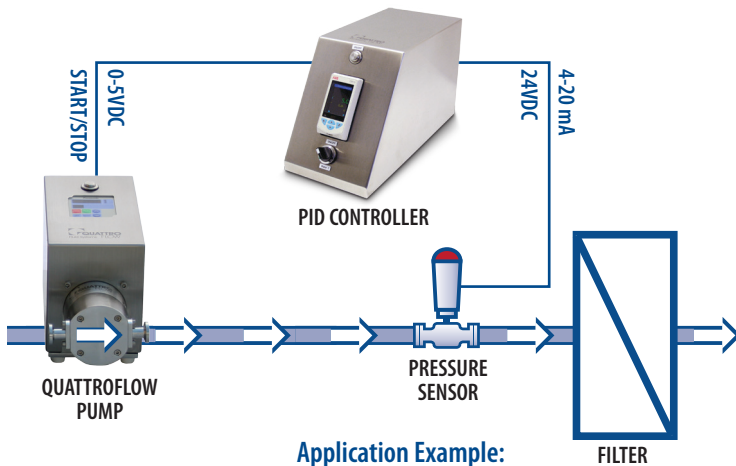
# QFPID01 Quattroflow PID Controller

## Features

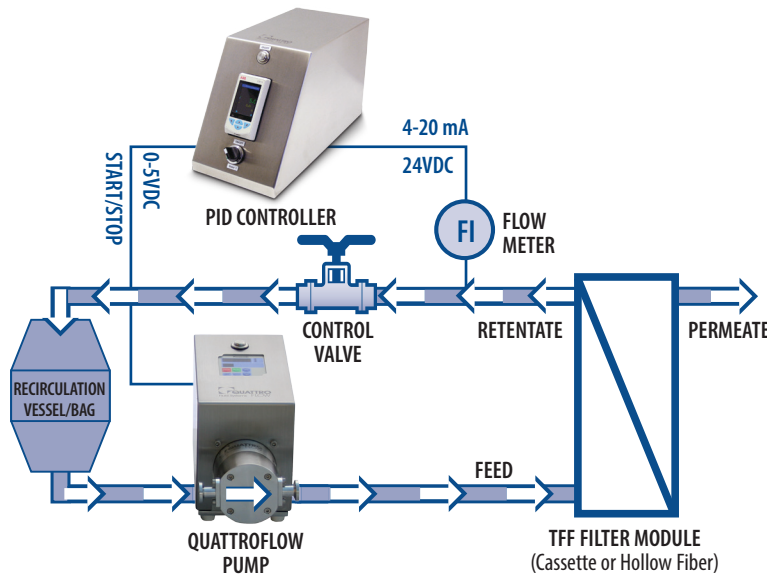
- Ideal for processes, where the Quattroflow pump should be controlled to a defined pressure or flow rate
- 4–20 mA input for separate pressure or flow sensor
- Autotune function for self optimization of controller settings
- Selectable alarm setpoints for automatic pump stop
- 0-5VDC output for QF150 or QF1200CV (4-20mA or 0-10VDC as option)

## Applications

- Pressure control in filtration processes
- Cross flow control in TFF systems
- Level control in vessels



**Application Example:**  
Pressure Control in Direct Flow Filtration



**Application Example:**  
Cross Flow Control in Tangential Flow Filtration

### I/O:

|                 |   |
|-----------------|---|
| Analogue Input  | 1 x 4 – 20 mA                               |
| Analogue Output | 1 x 0-5 VDC (0-10VDC or 4-20 mA on request) |

### Supply:

|                         |                         |
|-------------------------|-------------------------|
| Power Supply            | 230V 50Hz (110V option) |
| Power Supply for sensor | 24VDC, max. 500 mA      |

### Connectors:

|                 |               |
|-----------------|---------------|
| Analogue Input  | M12x1, 4 pole |
| Analogue Output | M12x1, 5 pole |

### Cables included:

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| Analogue output (to Quattroflow pump) | 5 m to QF150S(U) or QF1200S(U)-CV |
| Analogue input (to pressure sensor)   | 5 m to Labom pressure sensor      |
|                                       | 1 spare connector M12x1, 4 pole   |

### Housing:

|           |                                |
|-----------|--------------------------------|
| Material  | 1.4301 (304)                   |
| Dimension | 350 x 159 x 212 mm (L x W x H) |

### Order Code:

|                                |          |
|--------------------------------|----------|
| European Version 230V, 1 Phase | QFPID01E |
| US Version, 110V, 1 Phase      | QFPID01A |
| UK Version, 230V, 1 Phase      | QFPID01U |

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