

ProFlow



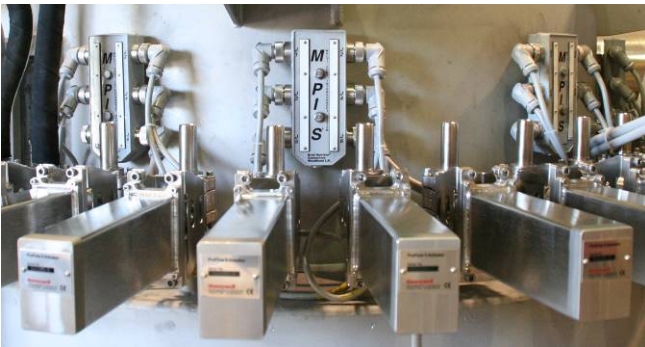
ProFlow dilution control actuator systems are custom engineered to perform on any consistency profiling headbox, with virtually any type of valve, providing great results for all paper grades. Customers planning to upgrade to dilution profiling in the future can obtain immediate benefits by installing a linear actuator on the slice lip now, transferring it to the dilution system with linear valves at upgrade time.

ProFlow is engineered to meet the needs of both the end user and the machinery maker. For the OEM, a ProFlow actuator system can be completely tested off-line with the headbox prior to delivery, integrating easily with the customer's QCS on-site.

Honeywell has been a leader in dilution headbox automation and control for over 15 years, with ProFlow systems installed in all applications. Features like the intelligent actuators and advanced CD control software, coupled with Honeywell's unparalleled reputation for providing increased profitability, make ProFlow the best choice for consistency profile control.

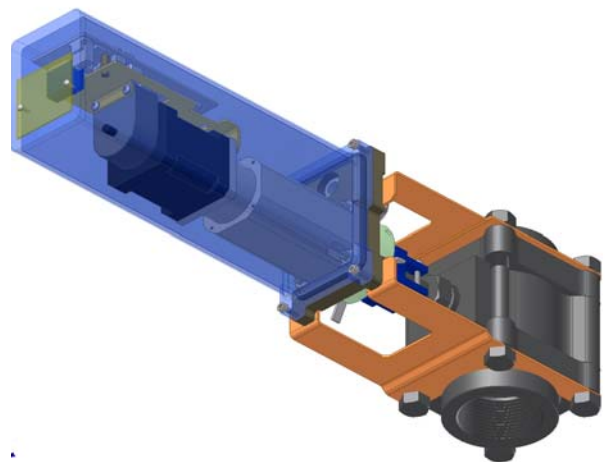
- Compact design for narrow zone spacing
- Adaptable to all dilution headbox configurations

ProFlow systems are offered in two configurations, with Models 9177 are used with rotational valves and Models 9174 are used with linear valves. The actuator consists of a high ratio gear, low voltage stepper motor and a built-in feedback device which provides precise valve position measurement for fast, accurate control. All actuators are available with either stainless steel or Zytel® housings.



Features and Benefits

- Improve CD basis weight profile
- Improve paper quality
- Reduce rejects
- Fast recovery at start-up and after grade changes or process upsets
- Fully sealed actuator for reliable operation in the harshest headbox environment



ProFlow Models 9177-10 and 9177-20 are suitable for rotational applications including standard ball valves up to 1" (25 mm) in size. Mounting adapters for circular headers and valve coupling are included. Models 9177-30 and 9177-40 are suitable for rotational applications requiring higher torque, such

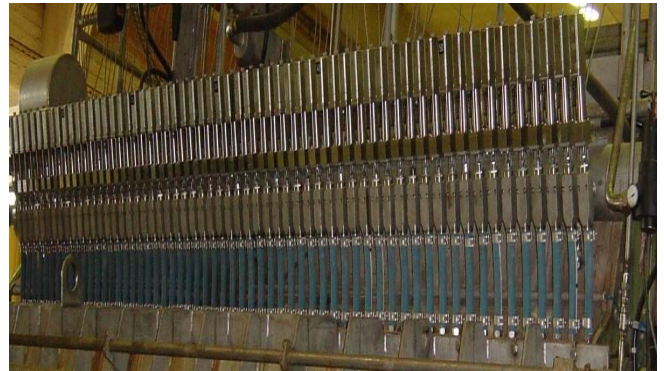
as larger ball valves and Metso dilution water valves. Mounting adapters for circular headers and valve coupling are included. Custom machined mounting adapters are available for straight header applications.



Model 9177-20 installed on a Mitsubishi Heavy Industries MJ Flo dilution header shown with optional cable support tray



Model 9174-30 installed on Voith ModuleJet valves



Model 9174-20 installed on a Vaahto headbox with Vaahto linear valves



Model 9177-20 installed on a GL&V BTF Universal Distributor

ProFlow Models 9174-20 and 9174-40 are designed for use with Vaahto linear displacement valves. No mounting adapters or valve couplings are required. Models 9174-30 and 9174-50 are designed for the long-stroke linear displacement valves supplied with Voith Paper ModuleJet headboxes. Mounting brackets and couplings are included.

All ProFlow actuator systems are supplied complete with the on-machine cabling and water-proof terminations to interconnect the actuators, making for easy off-line system testing and fast on-machine installations. Optional cable support trays are available for straight-line installations for environmental and mechanical protection of the wiring.

Each ProFlow system includes a CDWeb™ which provides the interface between the supervisory control system (QCS) and the actuators. The easy-to-use CDWeb Explorer software is used for actuator configuration, tuning, advanced diagnostics and troubleshooting.

Standard Options

- Actuator digital display (not available with Zytel® actuators)
- Machined adapters for straight header applications where required
- Valves (rotational, ½", ¾", 1")
- Cable support tray

Specifications

Category	Specification –Rotational ProFlow, Models 9177-10, 9177-20
Actuator Housing Material Model 9177-10 Model 9177-20	Zytel® 316 stainless steel
Motor Nominal Output Torque Minimum Output Shaft Rotation	24VDC 18 Nm (13.3 lbft) suitable for ball valves up to 1" (25 mm) 0.1°
Actuator Zone Spacing	60 mm minimum

Category	Specification – Rotational ProFlow, Models 9177-30, 9177-40
Actuator Housing Material Model 9177-30 Model 9177-40	Zytel® 316 stainless steel
Motor Nominal Output Torque Minimum Output Shaft Rotation	24VDC 30 Nm (22.1 lbft) suitable for ball valves up to 1 ¼" (32 mm) 0.1°
Actuator Zone Spacing	60 mm minimum

Category	Specification - Linear ProFlow, Models 9174-20, 9174-40
Actuator Housing Material Model 9174-20 Model 9174-40	316 stainless steel Zytel®
Motor Stroke Output Force Rating	24VDC 13 mm (.51 inches) 2.2 kN (500 lbf)
Actuator Zone Spacing	45 mm minimum

Category	Specification - Linear ProFlow, Models 9174-30, 9174-50
Actuator Housing Material Model 9174-30 Model 9174-50	316 stainless steel Zytel®
Motor Stroke Output Force Rating	24VDC 40 mm (1.57 inches) 2.2 kN (500 lbf)
Actuator Zone Spacing	45 mm minimum

Zytel® is a registered trademark of DuPont

More Information

For more information on ProFlow, visit
www.honeywell.com/ps or contact your
Honeywell account manager.

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