

Media Release

Global Communications

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New diaphragm valve from Georg Fischer Piping Systems Twice the flow with optimized flow contours

Georg Fischer Piping Systems launched their new generation of diaphragm valves worldwide in 2010. The new diaphragm valves have decisive advantages in handling and safety, as well as efficiency. The flow in these new valves is twice that of conventional diaphragm valves. In addition, the central plastic thread, which is used in place of the usual four metal screws, guarantees a corrosion-resistant connection.

Not apparent at first glance, but equally important is the more homogenous thermal expansion behavior achieved by the central plastic thread, which eliminates the need for retightening the valve body. The central thread ensures a consistent seat pressure, guaranteeing leak-tightness up to an operating pressure of 16 bar.

New flow contour of the diaphragm valves

The real technological advances of the new generation of diaphragm valves are actually located on the inside. Thanks to the optimized, turbulence-free flow contour the KV value has been doubled. The rounded contours with soft transitions and radii mean less abrasion and noise transmission, which adds comfort to daily use. The modified geometry of the valve body results in linear control characteristics – and therefore also consistently stable processes.

How the design affects the flow rate of the diaphragm valves can be seen in an independent comparison in which the new diaphragm valves from GF Piping Systems were tested against conventional diaphragm valves. 100% more flow was achieved on average with the optimized, turbulence-free flow contour. And this of course contributes to the economic efficiency of the diaphragm valves with lower running costs and the lower overall cost for media transport.

Material diversity and guaranteed compatibility

A large variety of materials warrant that the valves are compatible with the processes they are used in, thus ensuring safety. Valve bodies can be made of PVC-U, PVC-C, ABS as well as PP-H, PP-n and PVDF, membranes of EPDM, PTFE, FPM and NBR. This range of materials covers nearly the entire spectrum of chemicals with which the diaphragm valves can come into contact. So it makes no difference what type of media needs to be conveyed: From extremely contaminated or solid-containing to highly pure media, from the chemical process industry to microelectronics or water treatment, from cooling to control applications, everything is now possible.

The large diversity of connection options means that the valves can be used universally. Compatibility to the global standards for connections, e.g. ISO, BS, ASTM, ANSI and JIS, as well as to prEN ISO 16138, ISO9393 or EN558 standards have all been taken into consideration.

Outer dimensions and connecting dimensions have not been changed from the preceding models. All the new valves are therefore backward compatible and can be built into existing pipelines.

Design diversity

Standard versions of the diaphragm valves are operated manually via an integrated lockable handwheel, which protects against inadvertent manipulation. An optional self-adjusting electrical feedback unit, installed in just a few simple steps, enables automatic control and regulation of piping systems, as well as reliable process monitoring.

Automation of the valves is possible with the Diastar pneumatic valve actuator. Thanks to the three different pressure categories – up to 6 bar, up to 10 bar and up

to 16 bar – the pneumatically actuated diaphragm valves are quickly and easily integrated into nearly all piping systems.

Integrating the valves into system control is no problem with the corresponding interfaces and the wide array of accessories, so individual solutions are always possible.



A cross-section of the new diaphragm valves from Georg Fischer Piping Systems.

(Photo: GF Piping Systems, 2010)

- 1) Two-colored position indicator
- 2) Lockable handwheel
- 3) Color of the housing nut indicates the pressure rating
- 4) Identical installation length
- 5) Optimized valve body
- 6) Double the flow rate
- 7) Optimized diaphragm geometry
- 8) Color indicates the diaphragm material
- 9) Central housing nut

Georg Fischer – Adding Quality to People’s Lives

GF Piping Systems is one of three companies within the Georg Fischer group and a leading supplier of plastic and metal pipe systems with a global market presence.

Our portfolio offers connection technology, fittings, fixtures, sensors and pipes for the treatment and distribution of water as well as the safe transport of industrial fluids and gases. GF Piping Systems supplies leading innovative technical solutions for domestic engineering applications, the chemical process industry, food & beverage, life sciences, the microelectronics, shipbuilding, water and gas supply industries as well as potable water treatment. Our distributors in more than 25 countries and representatives in a further 80 countries guarantee customer service around the clock. Production facilities in Europe, Asia and the US are customer focussed and comply with all local requirements. Georg Fischer’s registered offices have been located in Schaffhausen, Switzerland, since the company was founded in 1802.

Key figures - GF Piping Systems 2010

More than 4700 employees worldwide (as of 1 March 2011)
1176 million CHF turnover
137 million CHF EBIT (earnings before interest and taxes)

Further information is available from www.piping.georgfischer.com