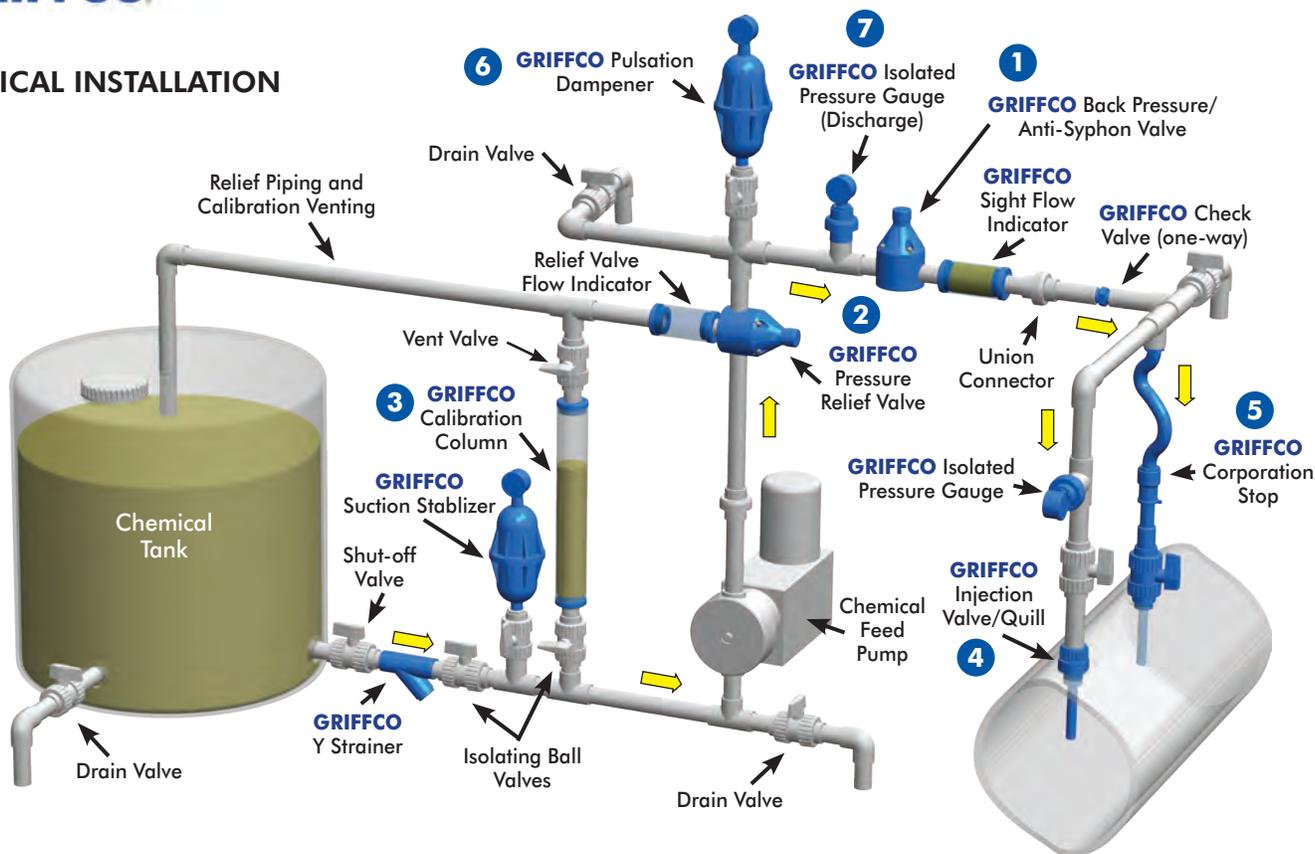




# Your Source for High-quality Chemical Feed Accessories

## TYPICAL INSTALLATION



**1 Back Pressure Valves**  
Help stabilize the downstream pressure and ensure that certain types of pumps deliver consistent flows or allow for high accuracy and stable operation. Also known as loading valves or anti-syphon valves.



**2 Pressure Relief Valves**  
Protect pumps, systems, or tanks from an upset condition (e.g. pressure spike, over pressurization, closed valve). Also known as safety valves or bypass valves.



**3 Calibration Columns**  
Measure flow and help calibrate metering and dosing pumps to ensure a high level of accuracy. Also known as calibration cylinders or calibration pots.



**4 Chemical Injection Valves**  
Enable passage of a liquid from a feed line into the center of a process line. Also known as injection quills.



**5 Corporation Stops**  
Allow for the injector quill to be removed without turning off the process flow. Can be fitted with an optional poppet to help minimize chemical build-up and improve chemical dispersion.



**6 Pulsation Dampeners**  
Reduce harmful shock waves and deliver continuous chemical dosage at the injection point. Also known as a suction stabilizer.



**7 Fusion Dampener**  
Combination of a pulsation dampener and a back pressure valve. Provides a smooth flow through the back pressure valve and reduces installation space.



**7 Gauge & Instrument Guards**  
Ensure optimal pressures are maintained in a chemical feed system and protect instruments against chemical attack. Also known as isolated pressure gauges

For complete, current specifications, download datasheets from our website

# Comprehensive Line of Chemical Feed Accessories

Featuring robust, machined and molded fabrication, Griffco chemical feed accessories provide high reliability at a low cost. They are available in a wide range of quality metallic and plastic materials.

3D CAD drawings can be downloaded from our website for most of our product line, and for convenience and accuracy, you can also use our online Pulsation Dampener Sizing Calculator.

## Back Pressure and Pressure Relief Valves

- Flanged, Union, Threaded, Socket, and Griffflare connections
- Molded Noryl® or machined 316 SS top with locking hardware
- Integral instrument guard with alarm switch or gauge available



- PVC, CPVC & PVDF Griffflare fittings for connection to PFA tubing
- PTFE/EPDM diaphragm standard; other materials optional
- Medium-pressure version adjustable up to 800 psi (56 bar)
- High-pressure version (relief valves only) up to 4000 psi (276 bar)

Series	Sizes		Maximum Flow (Pulsating)		Maximum Flow (Continuous)		Maximum Pressure	
	Inch	Metric	GPH	LPH	GPM	LPM	PSI	BAR
M-Series	1/4" - 1/2"	DN 8 - DN 15	100 - 260	375 - 984	5 - 15	19 - 57	350	24
Unibody	1/2" - 1"	DN 15 - DN 25	260 - 500	984 - 1,890	15 - 26	57 - 98	250	17
G-Series	1/2" - 4"	DN 15 - DN 100	300 - 5,200	1,135 - 19,600	21 - 270	80 - 1,020	800*	56*
High-Flow	1/2" - 1"	DN 15 - DN 25	600 - 1,000	2,271 - 3,785	30 - 54	114 - 204	250	17
High-Pressure	1/4" - 1"	DN 8 - DN 25	700 - 1,650	2,650 - 6,245	35 - 86	132 - 325	4000	276

\* 250 psi (17 bar) for 1-1/2" to 4" (DN 40 to DN 100) sizes

## Calibration Columns

- PVC plastic in sizes from 100mL to 40,000mL
- Borosilicate glass in sizes from 30mL to 20,000mL
- High-contrast graduated markings in mL and GPH

- Threaded standard; Socket, Flanged, Union, and Flanged with ball valve connections optional
- Plastic and metal end cap materials and dust cover, sealed, and EZ-Clean configurations

## Chemical Injection Valves and Quills

- Serviceable (ICV) models offer pressures up to 350 psi; metal construction with 1/2" to 2" MNPT or male BSPT threaded and 1/2" to 2" Socket (plastic) connections
- Features integral Hastelloy® C spring-loaded check valve

- Multiple tip configurations and custom quill lengths available
- High-pressure (IVQ) models offer pressures up to 3000 psi; metal construction with 1/2", 3/4" and 1" MNPT or male BSPT threaded connections

## Corporation Stops

- Features integral Hastelloy C spring-loaded check valve
- Optional poppet also acts like a check valve to minimize chemical build-up and improve chemical dispersion

- Metal and plastic ball valve materials (please inquire)
- Variable length quill chain (316 SS) lock
- Tip configurations: flat, bevel cut, and poppet tip
- Sizes from 1/2" to 1" (DN 15 to DN 25) in plastic (Union socket) and metal (male threads) and pressures up to 150 psi (10 bar)

## Pulsation Dampeners

- 11 volumetric sizes available from 6 to 350 cubic inches
- Dampening effect  $\pm 2.5\%$
- Available in PVC, CPVC, Noryl, PP, PVDF and 316 SS construction

- Bladder in EPDM (standard); Viton®, Hapalon®, PTFE (optional)
- Maximum operating pressure @70°F (21°C) 150 psi (10 bar) with peak of 250 psi (17 bar) for plastic models; 250 psi (17 bar) with peak of 350 psi (24 bar) for metallic models
- Sizes of 1/2", 3/4", 1" and 2" with NPT, BPST, Union, or Flange process connections

## Fusion Dampeners

- The combination of two proven Griffco products, a back pressure valve and a pulsation dampener with no flow or fluid restrictions
- 2 volumetric sizes available, 6 and 10 cubic inches

- Bladder in EPDM (standard); Viton, Hapalon, PTFE (optional)
- Maximum operating pressure @70°F (21°C) 150 psi
- Space saving design available in PVC, CPVC, and PVDF
- NPT connection sizes of 1/4", 3/8" and 1/2"

## Gauge and Instrument Guards

- Gauge accuracy of  $\pm 2\%$  (can be ordered with or without gauge)
- Features molded Noryl top, 316 SS gauge connection, and Viton O-ring material
- Will perform in any position and includes calibration screw for zeroing

- Sizes of 1/4", 3/8", 1/2" (DN 8, DN 10, DN 15) in NPT, BPST, Socket, Union, or Flange process connections
- Gauge port sizes of 1/4" standard; 1/8" and 1/2" optional

## Y-Strainers

- Horizontal or vertical installation with 2:1 open area ratio and hex cap for easy access
- Construction materials include PVC, clear PVC, CPVC, PVDF or 316 SS

- Standard screen perforation 1/32" (plastic or metal); 1/16", 1/8", 3/16" also available
- Metal mesh sizes from 20 to 325
- Maximum operating pressure @70°F (21°C) 150 psi (10 bar)
- NPT, BSPT, and Socket connections standard; True Union, Flanged, and European connections optional



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