CoorsTek

FLOWGUARD
Pulsation Equipment

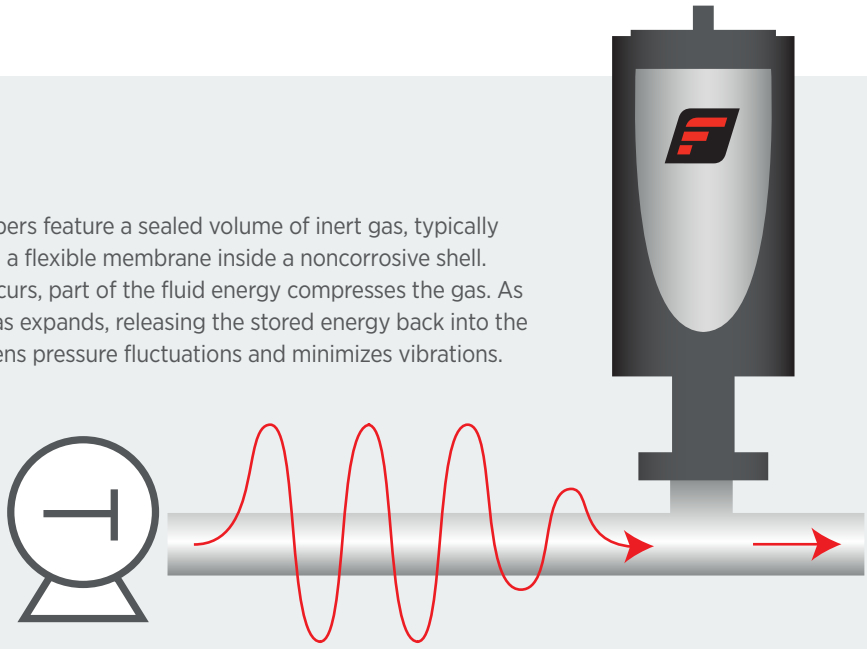
PromoTec

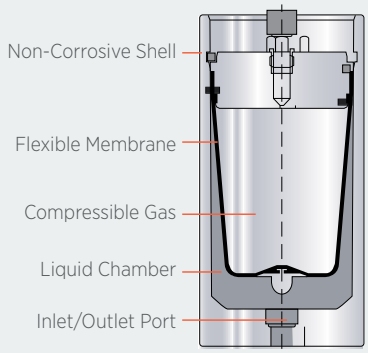
Flowguard™
PULSATION DAMPERS

Flowguard pulsation dampers (also known as dampeners) are hydro-pneumatic devices designed to eliminate pulsations, vibrations, and noise from positive displacement pumps. Using them in fluid systems improves instrument accuracy, extends pump life, and reduces maintenance and operational costs. They also prevent pipe fractures caused by vibration and protect personnel from leaks.

Principles of Operation

Flowguard pulsation dampers feature a sealed volume of inert gas, typically nitrogen, contained within a flexible membrane inside a noncorrosive shell. When a pressure pulse occurs, part of the fluid energy compresses the gas. As pressure decreases, the gas expands, releasing the stored energy back into the system. This action dampens pressure fluctuations and minimizes vibrations.





Design Efficiency

Flowguard dampers feature a simple yet highly efficient design, outperforming traditional hydraulic accumulators. Their rugged construction ensures reliability, affordability, and easy maintenance. Our standard housings are made from non-corrosive 316 stainless steel, polypropylene, or specialty alloys including Inconel, Titanium, Hastelloy, and Monel™. The membrane is available in a wide variety of elastomers, PTFE (Teflon®) diaphragms, and PTFE or stainless steel bellows.

KEY FEATURES

Broad Range to Fit Your Needs
CoorsTek provides a wide range of Flowguard pulsation dampers to accommodate pressures from 150 psi (10 bar) to 15,000 psi (1,000 bar) and may be custom made to meet any specification or a particular duty requirement.

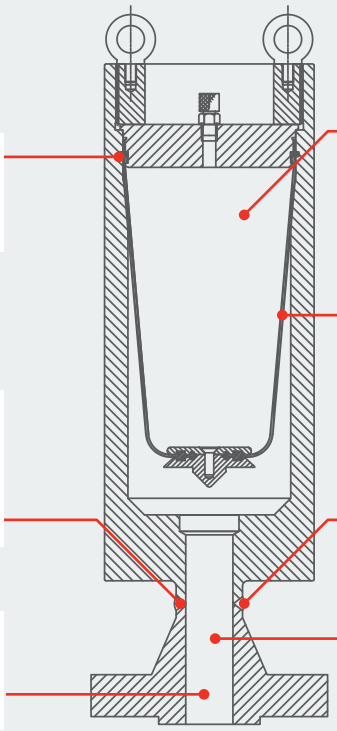
Certified High Quality
Designed and manufactured to the highest standards, Flowguard pulsation dampers are supplied to internationally recognized pressure vessel design codes and standards to satisfy customer requirements.

Certifications available:

ASME VIII	*ASME "U"*	*"NB" & "R"*	*CRN*	*PD5500*
PED/PESR	*ATEX*	*ISO9001*	*ISO14001*	

- Eliminates pressure fluctuations and surges
- Reduces pipe vibration and shaking
- Ensures steady, continuous flow
- Reduces system noise
- Protects pump motors and gear-boxes, especially in long pipe runs
- Prevents pump over delivery and cavitation caused by poor suction conditions

BENEFITS OF FLOWGUARD PULSATION DAMPERS



Easy membrane replacement without removing the damper

Welded flange connections, plus BSP, NPT, and alternative threaded options

Unrestricted inlet port (no poppet valve) for superior damping efficiency

Simple gas charging system

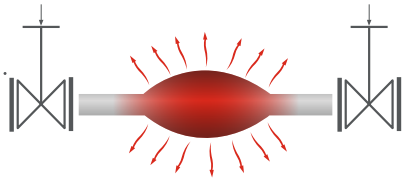
One-piece, molded membranes (no glued joints)

Fully coded and approved welding with 100% x-ray, if required

Optional in-line (2-port) models with customizable port orientation

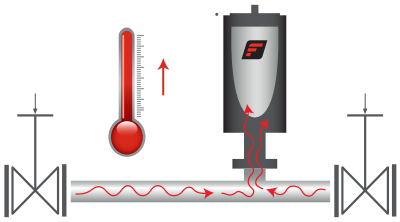
THERMAL EXPANSION COMPENSATORS

Internal flexible membrane reacts instantly to liquid expansion
Even a small temperature rise can cause static liquid to expand, generating dangerously high pressures. Without compensation, this pressure can rupture pipes, damage instruments, and lead to costly downtime. Leaks from flanges and fittings pose safety risks and may violate environmental regulations.



PROBLEMS

- Temperature increases
- Unwanted spillages
- Broken pipelines
- Leaks
- Contamination from relief valves
- Excess pressures
- Liquid expansion



SOLUTION

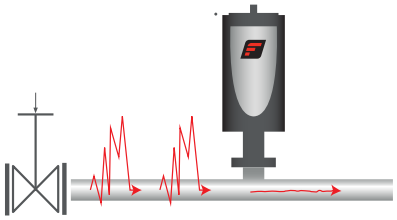
Flowguard Thermal Expansion Compensator absorbs expanding liquid into a pressure vessel chamber. Its gas-filled membrane contracts automatically, allowing fluid to enter. As temperatures drop, the membrane expands, returning the fluid to the pipeline—preventing ruptures, leaks, and system damage.

PIPELINE SURGE ABSORBERS

Internal flexible membrane reacts instantly to pressure surge
A sudden valve closure or pump stoppage will cause fluid to rebound, creating a shock wave that travels at the speed of sound. This surge carries the full energy of the preceding flow, often exceeding pipeline design pressures and leading to catastrophic failures at weak points.

PROBLEMS

- Frequent breakages
- Water hammer
- Cracked casings
- Pipe vibrations
- Ruptured flanges
- Leaks



SOLUTION

The Flowguard Surge Absorber, correctly sized, is located near the source of the problem. The internal gas-filled membrane will contract instantaneously to cushion the shock waves. Flowguard Surge Absorbers are designed to alleviate energy spikes and assists with difficult pump start-ups.

FG SERIES

BLADDER TYPE PULSATION DAMPERS

This damper series offers tailored solutions to meet client needs, with customizable shell and membrane materials.

Shell Material Options: 316 & 316L Stainless Steel, Duplex & Super Duplex, Carbon Steel, Hastelloy, Titanium, Monel, Alloy 20, Inconel 625.

Membrane Material Options: NBR, EPDM, Viton, Butyl, Neoprene, and hydrogenated, peroxide-cured, and food-grade versions.

Connection Types: BSP, NPT, Autoclave Threads, Flanges, Triclamps, Sanitary connections, Techloc & Graylock Hubs, and custom options.

Design Standards: Design Standards: Manufactured to ASME VIII or PD5500, with third-party design appraisal and inspection available, including ASME U marking and certification.

Documentation Provided: Includes a standard Data Book with 3.1 Material Certificates, GA Drawing with Parts List, Quality Plan, Material Schedule, Pressure Test Certificate, and IOM Data. Additional documentation—such as welding and NDE reports, calculations, and other relevant data—is available upon request.

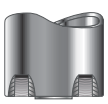
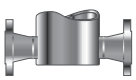
With thousands in operation worldwide, these dampers effectively smooth flow from reciprocating pumps, enabling precise metering and reduced vibration. The open-top design allows easy maintenance with quick, on-site bladder removal and replacement. Each unit is fully serviceable, with comprehensive spare kits and replacement parts readily available to support long-term performance.

Benefits

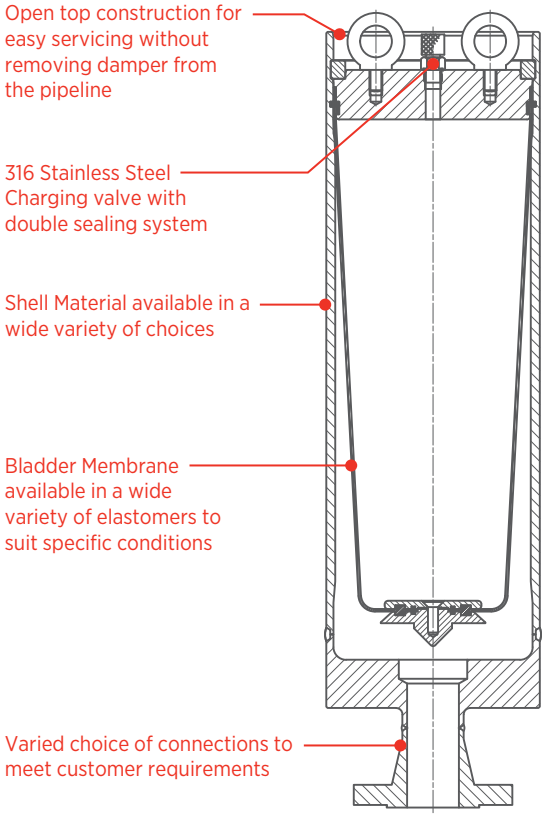
- Customizable design
- Easy maintenance and installation
- Proven performance
- Suitable for a wide range of processes
- Wide selection of shell and bladder materials
- Wide choice of process connection types
- Supplied with a data book and full documentation
- Additional NDE options available
- Optional surface coatings (painting) and finishes (polishing)

Certifications

- ISO9001:2015 and ISO14001:2015 Approved
- Designed to PD5500 or ASME VIII
- Third Party Design Appraisal and Inspection
- PED (CE mark) / PESR (UKCA mark) Compliance
- ATEX Certification for equipment intended for use in potentially explosive atmospheres Directive 2014/24/EU
- ASME “U” Certificate of Authorization
- National Board “NB” & “R” Authorization
- Canadian Registration Number (CRN)

TYPE A (Thread)	TYPE E (Flange /Hub)	TYPE C (Integral Flange Face)	TYPE F (Twin Flange/Hub)
			

** Other connection arrangements available*



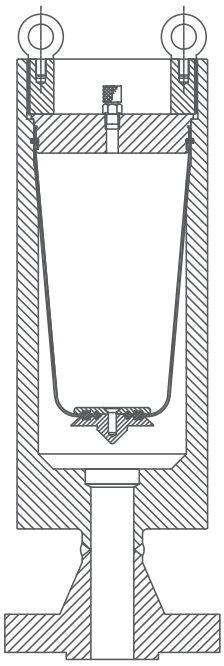
HG SERIES

BLADDER TYPE PULSATION DAMPERS

The HG Series of dampers is specifically designed for high-pressure applications, offering tailored solutions to meet client needs. It features bespoke options for both shell and membrane materials. Examples of shell materials include 316 & 316L Stainless Steel, Duplex & Super Duplex, Carbon Steel, Hastelloy, Titanium, Monel, Alloy 20, and Inconel 625. A wide range of membrane materials is available, including NBR, EPDM, Viton, Butyl, Neoprene, Hydrogenated, Peroxide-cured, and food-quality versions.

The damper offers various connection options to suit process line requirements, such as BSP, NPT, Autoclave Threads, Flange connections, and Techloc & Graylock Hubs. It is designed in accordance with ASME VIII or PD5500, with third-party design appraisal and inspection available, including ASME U marking and certification. The damper is supplied with a standard Data Book, which includes 3.1 Material Certificates, GA Drawing with Parts List, Quality Plan, Material Schedule, Pressure Test Certificate, and IOM Data. Additional documentation—such as welding and NDE reports, calculations, and other relevant data—is available upon request.

With thousands of units in operation worldwide, the HG Series effectively smooths the flow from reciprocating pumps, enabling accurate metering and reducing vibrations. The open-top construction allows for easy maintenance, providing top access for quick and simple bladder removal and replacement on-site. Spares kits and replacement parts ensure these units are fully serviceable.



Benefits

- Customizable design
- Easy maintenance and installation
- Proven performance
- Suitable for a wide range of processes
- Wide selection of shell and bladder materials
- Wide choice of process connection types
- Supplied with a data book and full documentation
- Additional NDE options available
- Optional surface coatings (painting) and finishes (polishing)

Certifications

- ISO9001:2015 and ISO14001:2015 Approved
- Designed to PD5500 or ASME VIII
- Third Party Design Appraisal and Inspection
- PED (CE mark) / PESR (UKCA mark) Compliance
- ATEX Certification for equipment intended for use in potentially explosive atmospheres Directive 2014/24/EU
- ASME “U” Certificate of Authorization
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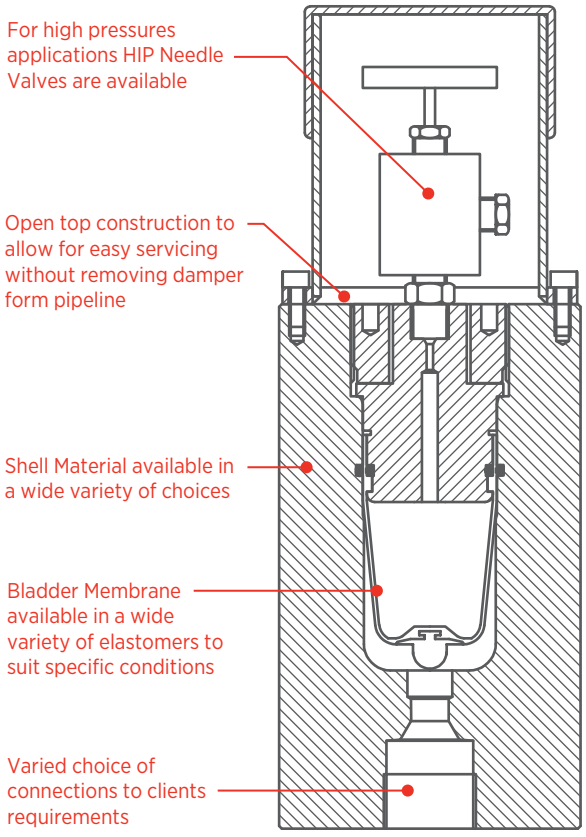
TYPE A (Thread)	TYPE E (Flange /Hub)	TYPE C (Integral Flange Face)

** Other connection arrangements available*



FD SERIES

PTFE DIAPHRAGM TYPE PULSATION DAMPERS

The FD range utilizes a robust PTFE membrane, specifically engineered for handling aggressive process fluids. It features a non-wetted sealing arrangement and offers a wide selection of O-ring materials—including NBR, EPDM, Viton, PTFE-encapsulated Viton, and Kalrez—to ensure compatibility with demanding chemical environments.

Bespoke combinations of shell and membrane materials are available to suit virtually any application. Shell materials include 316 and 316L stainless steel, Duplex and Super Duplex, Carbon Steel, Hastelloy, Titanium, Monel, Alloy 20, Inconel 625, Polypropylene, PVC, and PVDF.

A variety of connection types can be specified to match process line requirements, including BSP and NPT threads, flange connections, Tri-Clamp fittings, and sanitary connections. Designs are supplied in accordance with ASME VIII or PD5500, with optional third-party witnessing and design appraisal, including ASME U Stamp certification.

Each damper is delivered with a comprehensive data book containing 3.1 material certificates, general arrangement drawings with parts lists, quality plans, material schedules, pressure test certificates, and installation and operation manuals. Additional documentation—such as welder qualifications, NDE reports, and design calculations—can be provided upon request.

Thousands of these dampers are in operation worldwide, demonstrating the effectiveness of this proven design in smoothing flow from reciprocating pumps, enabling accurate metering, and reducing vibration.

Benefits

Customizable design
Easy maintenance and installation
Proven performance
Resistance to a wide range of chemicals
Wide selection of shell materials
Wide choice of process connection types
Supplied with a data book and full documentation
Additional NDE options available
Optional surface coatings (painting) and finishes (polishing)

Certifications

ISO9001:2015 and ISO14001:2015 Approved
Designed to PD5500 or ASME VIII
Third Party Design Appraisal and Inspection
PED (CE mark) / PESR (UKCA mark) Compliance
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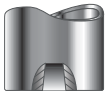
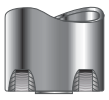
TYPE A (Thread)

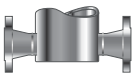


TYPE E (Flange /Hub)

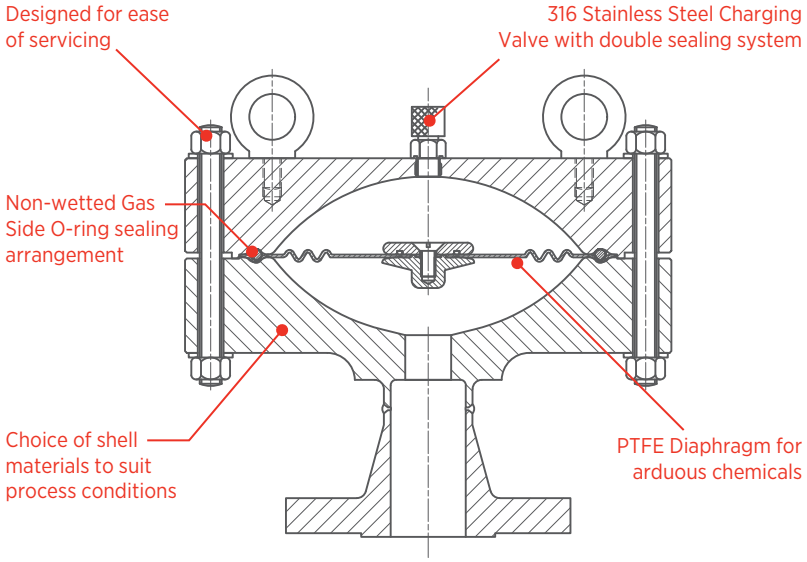
TYPE C (Integral Flange Face)



TYPE F (Twin Flange/Hub)



* *Other connection arrangements available*



FP SERIES

PISTON TYPE PULSATION DAMPERS

The FP Series is specifically engineered for high-pressure applications, offering a customizable solution to meet a wide range of process requirements. With options for various shell and piston materials -including 316/316L Stainless Steel, Duplex, and Super Duplex – these dampers deliver durability and reliability under demanding conditions.

A variety of process connections are available, including NPT and Autoclave Threads, with additional options upon request. Each unit is designed in accordance with ASME VIII standards, with third-party witnessing and design appraisal available, including the ASME “U” Stamp.

Every damper is supplied with a comprehensive Data Book, including 3.1 Material Certificates, General Arrangement (GA) Drawing with Parts List, Quality Plan, Material Schedule, Pressure Test Certificate, Pre-Charge Test Certificate, and Installation, Operation & Maintenance (IOM) Data. Additional documentation—such as NDE reports and engineering calculations—is available upon request.

The FP series effectively smooths the flow from reciprocation pumps, reducing pressure pulsations, protects equipment, improves process efficiency, reduces noise, enhances safety and enables better control.

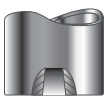
The open-ended construction top and bottom, allows for easy maintenance, providing access for quick and simple removal and replacement of the piston assembly. Spares kits and replacement parts ensure these units are fully serviceable.

Benefits

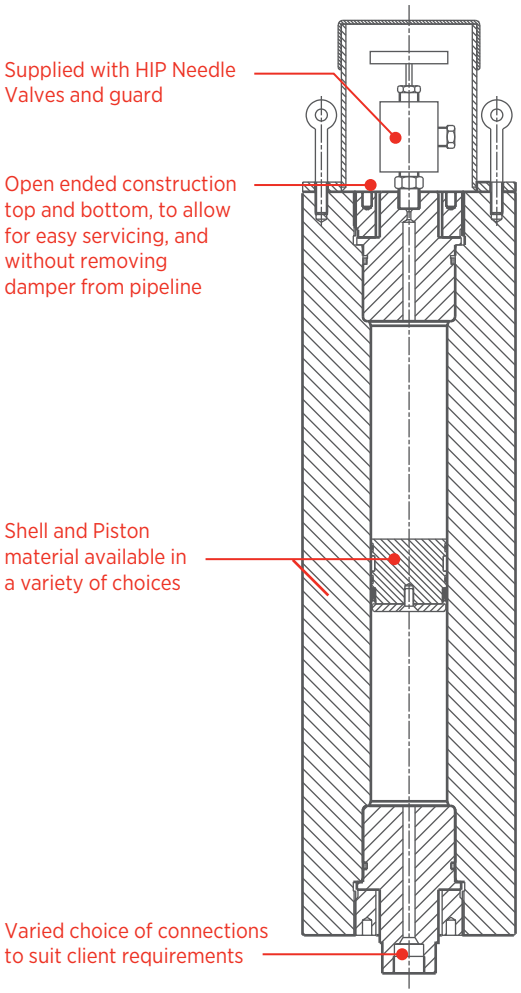
- Customizable design
- Easy maintenance and installation
- Proven performance
- Resistance to a wide range of chemicals
- Suitable for a wide range of processes
- Wide selection of shell and piston materials
- Wide choice of process connection types
- Supplied with a data book and full documentation
- Additional NDE options available
- Optional surface coatings (painting) and finishes (polishing)

Certifications

- ISO9001:2015 and ISO14001:2015 Approved
- Designed to ASME VIII
- Third Party Design Appraisal and Inspection
- PED (CE mark) / PESR (UKCA mark) Compliance
- ATEX Certification for equipment intended for use in potentially explosive atmospheres Directive 2014/24/EU
- ASME “U” Certificate of Authorization
- National Board “NB” & “R” Authorization
- Canadian Registration Number (CRN)

TYPE A (Thread)	TYPE E (Flange /Hub)
	

** Other connection arrangements available*



FB SERIES

BELLOWS TYPE PULSATION DAMPERS

The FB Series of dampers offers PTFE bellows for exceptionally aggressive chemicals or alloy metals for high or low-temperature resistance. PTFE bellows are precision knife-cut using CNC machinery and are ideal for lower-pressure applications. The liquid header of the damper can be fitted with a PTFE envelope, providing a fully PTFE-wetted design.

For more demanding applications, metal bellows are formed and welded through a proprietary, tightly controlled process. These bellows are helium leak tested to ensure reliability. The damper can be configured with 1 or 2 seals, offering a wide range of O-ring materials, including NBR, EPDM, Viton, PTFE-encapsulated Viton, and Kalrez.

The FB Series offers a variety of connection options to meet process line requirements, including BSP, NPT threads, and flanged connections.

Designed in accordance with ASME VIII or PD5500, with third-party design appraisal and inspection available, including ASME U marking and certification. The damper comes with a standard Data Book, including 3.1 Material Certificates, GA Drawing with Parts List, Quality Plan & Material Schedule, Pressure Test Certificate, and IOM Data. Additional documentation—such as welding and NDE reports, calculations, and other relevant data—is available upon request.

With thousands of units in operation worldwide, the FB Series effectively smooths the flow from reciprocating pumps, enabling accurate metering and reduced vibrations.

Benefits

- Customizable design
- Easy maintenance and installation
- Proven performance
- Resistance to a wide range of chemicals
- Fully wetted PTFE design
- Fully wetted 316 stainless steel design
- Wide choice of process connection types
- Supplied with a data book and full documentation
- Additional NDE options available

Certifications

- ISO9001:2015 and ISO14001:2015 Approved
- Designed to PD5500 or ASME VIII
- Third Party Design Appraisal and Inspection
- PED (CE mark) / PESR (UKCA mark) Compliance
- ATEX Certification for equipment intended for use in potentially explosive atmospheres Directive 2014/24/EU
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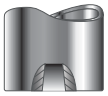
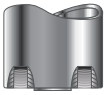
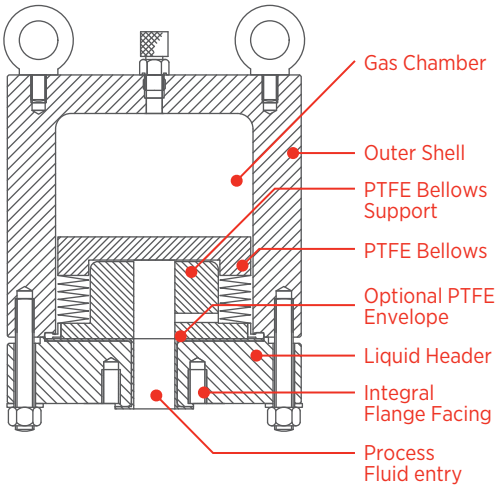
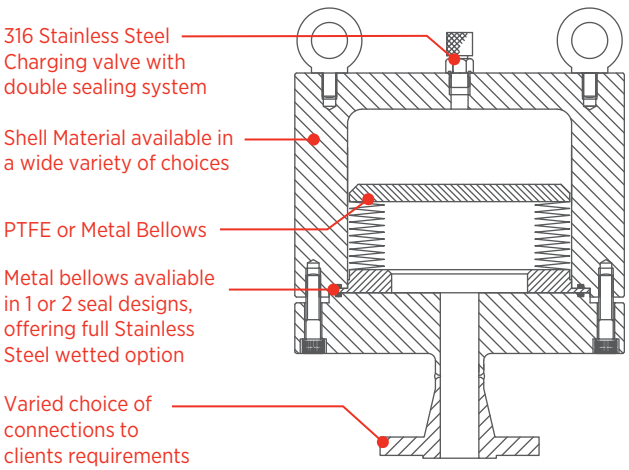
		

** Other connection arrangements available*

PTFE Bellows & Envelope Design



Metal Bellows Design



DS SERIES

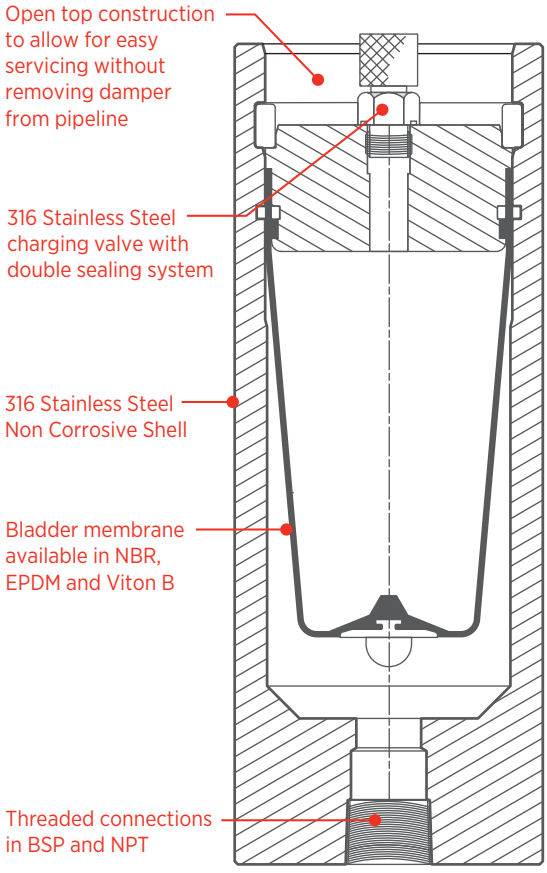
316 STAINLESS STEEL / BLADDER TYPE PULSATION DAMPERS

The DS Series is specifically designed as a bladder-type pulsation damper with a maintenance-friendly top-access design, allowing for easy bladder removal and in-situ replacement.

These dampers are constructed from 316 stainless steel as standard, with bladder options in NBR, EPDM, or Viton to suit various applications.

Process connections are available in BSP or NPT female threads.

With thousands of units in operation worldwide, the DS Series provides a proven solution for smoothing flow from reciprocating pumps, ensuring accurate metering and reduced vibrations.



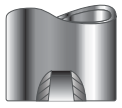
Benefits

- Ex-Stock availability
- Easy maintenance and installation
- Proven performance
- Suitable for a wide range of processes
- Bladder membranes available in NBR, EPDM and Viton B
- 316 stainless steel non-corrosive shell
- ISO9001:2015 and ISO14001:2015 Approved

Documentation

- Hydrostatic Pressure Test Certificate
- Installation, Operating and Maintenance Data

TYPE A (Thread)



MODEL REF	VOLUME (liters)	PRESSURE (Bar)	STANDARD CONNECTION	DIAMETER (mm)	LENGTH (mm)	WEIGHT (Kg)
DS10	0.10 L	332	½" NPT/BSP	66.3 mm	157 mm	3 kg
DS20	0.25 L	325	½" NPT/BSP	82.2 mm	196 mm	5.5 kg
DS30	0.50 L	278	1" NPT/BSP	95.0 mm	253 mm	8.5 kg
DS40	1.0 L	230	1½" NPT/BSP	120.0 mm	258 mm	13 kg
DS50	2.0 L	111	1½" NPT/BSP	114.3 mm	400 mm	14 kg
DS52	2.75 L	111	1½" NPT/BSP	114.3 mm	519 mm	16.5 kg
DS57	3.5 L	92	1½" NPT/BSP	141.3 mm	447 mm	22.5 kg
DS60	5.0 L	56	2" NPT/BSP	168.3 mm	438 mm	26 kg
DS70	7.5 L	56	2" NPT/BSP	168.3 mm	548 mm	29.5 kg
DS77	10.0 L	56	2" NPT/BSP	168.3 mm	687 mm	33.5 kg
DS80	15.0 L	53	2" NPT/BSP	219.1 mm	696 mm	57.5 kg

** Pressure are calculated in accordance with PD5500 and are based on 316 stainless steel at a design temperature of 100°C. PED Restrictions will apply.*

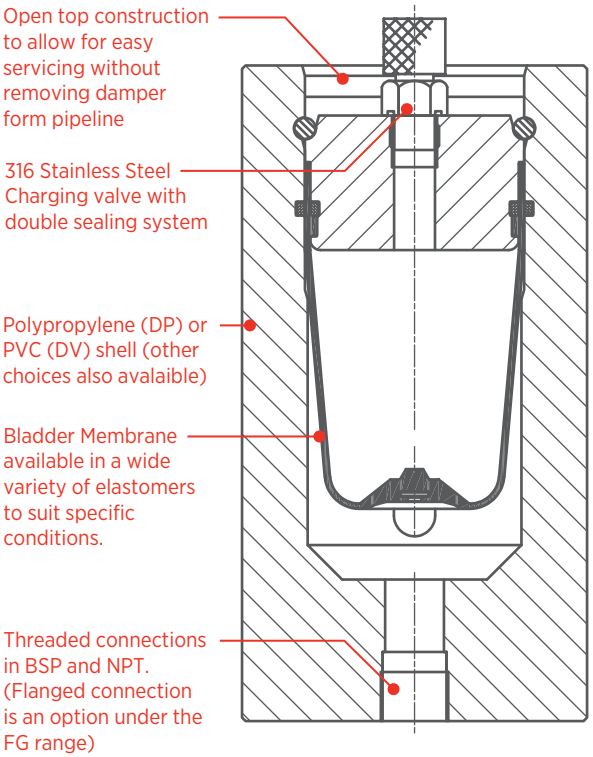
DP/DV SERIES

BLADDER TYPE PULSATION DAMPERS

The DP/DV Series features Polypropylene (DP) or PVC (DV) shell materials, offering excellent chemical resistance for various applications. Bespoke alternatives, such as Nylon and PVDF, are also available.

These dampers support a wide range of membrane materials, including NBR, EPDM, Viton, Butyl, Neoprene, and Hydrogenated Peroxide-cured options, along with food-grade versions. Designed as bladder-type units, they allow for easy maintenance with a top-access design, enabling bladder removal and in-situ replacement.

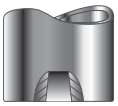
Process connections are available as BSP or NPT female threads, with flanged connections as an option under the FG range. With thousands of units in operation worldwide, this simple yet effective design concept ensures smooth flow from reciprocating pumps, allowing for accurate metering and reduced vibrations.



Benefits

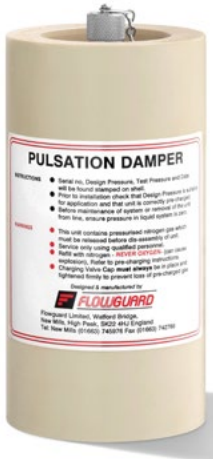
- Polypropylene (DP) or PVC (DV) shell
- Ex-Stock availability
- Easy maintenance and installation
- Proven performance
- Resistance to a wide range of chemicals
- Wide selection of bladder materials
- ISO9001:2015 and ISO14001:2015 Approved

TYPE A (Thread)



Documentation

- Hydrostatic Pressure Test Certificate
- Installation, Operating and Maintenance Data



MODEL REF	VOLUME (liters)	PRESSURE (Bar)	STANDARD CONNECTION	DIAMETER (mm)	LENGTH (mm)	WEIGHT (Kg)
DP10	0.10 L	10	½" NPT/BSP	75 mm	155 mm	0.5 kg
DP20	0.25 L	10	½" NPT/BSP	100 mm	190 mm	1.0 kg
DP30	0.50 L	10	1" NPT/BSP	100 mm	248 mm	1.3 kg
DP40	1.0 L	10	1½" NPT/BSP	125 mm	250 mm	1.9 kg
DP50	2.0 L	10	1½" NPT/BSP	125 mm	395 mm	2.6 kg
DP57	3.5 L	10	1½" NPT/BSP	160 mm	432 mm	5.0 kg
DP60	5.0 L	10	2" NPT/BSP	190 mm	440 mm	6.6 kg
DP70	7.5 L	10	2" NPT/BSP	190 mm	550 mm	9.4 kg

** Pressure are based on Polypropylene and design temperature of +5°C to +30°C, PED Restrictions will apply*

CIP HYGIENIC SERIES

HYGIENIC TRANSFER PULSATION DAMPERS

FG/TD Series

This series of dampers is designed specifically for hygienic applications in the food, beverage, pharmaceutical, and toiletry industries, the FG/TD Series ensures clean, efficient operation. Featuring a twin-port design for flow-through use, it eliminates product stagnation and is fully CIP-compatible. A tangentially mounted inlet port promotes a scouring action during cleaning, enhancing hygiene. As made-to-order units, the elastomer type, connection size and type, and polishing requirements are tailored to customer specifications.

How It Works

The damper contains a transfer fluid between a nitrogen pre-charged upper bladder and a lower process-fluid-wetted bladder. Pulsations in the process fluid impact the lower bladder, transmitting pressure through the transfer fluid to the upper bladder, where gas absorption dampens the pressure fluctuations. To prevent contamination, the transfer fluid is carefully selected for compatibility with the pumped product in case of bladder rupture.

Customization & Materials

A variety of elastomer compounds are available based on process fluid and cleaning requirements. The upper membrane is typically a standard elastomer grade, while the lower membrane (process-wetted) is available in black or white, standard or food-grade compounds, with FDA certification.

Process connection size typically matches the line diameter to maintain flow velocity. Connection types include RTJ, DIN 11851, and Tri-Clamp, among others. Surface finish options for internal (process-wetted) and external parts include:

- Satin (0.4 to 0.2 Ra)
- Dull Mirror (0.1 to 0.05 Ra)
- Mirror (0.025 to 0.0125 Ra)
- Additional finishes: Electropolishing and bead blasting

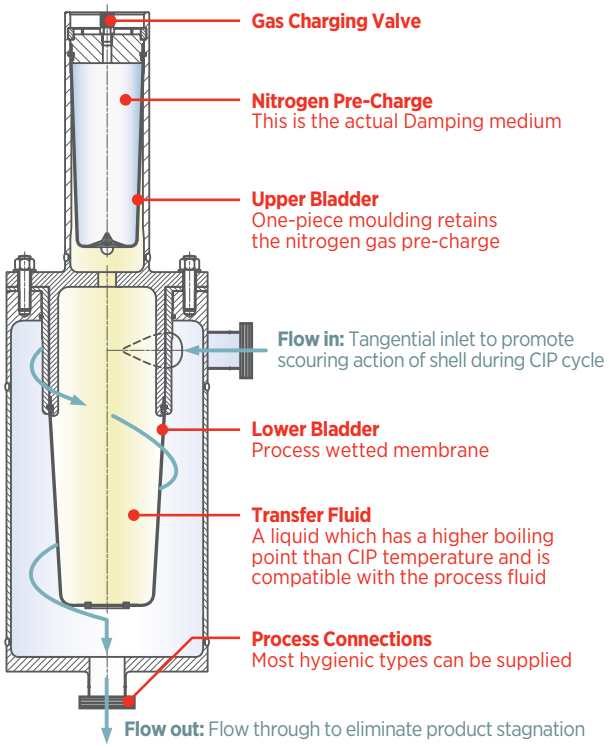
Compliance & Documentation

Designed to PD5500 or ASME VIII. Third-party witnessing and design appraisal is available, including ASME U Stamp certification.

Supplied with a full Data Book:

- 3.1 Material Certificates
- GA Drawing with Parts List
- Quality Plan & Material Schedule
- Pressure Test Certificate
- IOM Data

Additional documentation (Welding & NDE documentation, calculations) is available upon request.



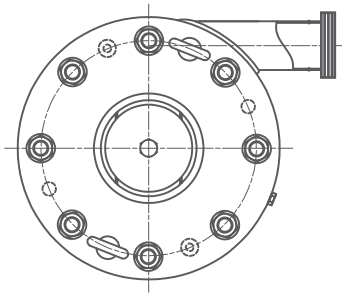
Benefits

- Custom-designed for hygienic applications
- Easy maintenance and installation
- Resistance to a wide range of chemicals
- Wide choice of process connection types
- Supplied with a data book and full documentation
- Additional NDE options available

Certifications

- ISO9001:2015 and ISO14001:2015 Approved
- Designed to PD5500 or ASME VIII
- Third Party Design Appraisal and Inspection
- PED (CE mark) / PESR (UKCA mark) Compliance
- ATEX Certification for equipment intended for use in potentially explosive atmospheres Directive 2014/24/EU
- ASME “U” Certificate of Authorization
- National Board “NB” & “R” Authorization
- Canadian Registration Number (CRN)

PLAN VIEW



BENEFITS / CERTIFICATIONS / DOCUMENTATION MATRIX

Benefits	FG	HG	FD	FB	DS	DP/DV	CIP	FP
Polypropylene (DP) or PVC (DV) shell						●		
Ex-Stock availability					●	●		
Customizable design	●	●	●	●				●
Custom-designed for hygienic applications							●	
Easy maintenance and installation	●	●	●	●	●	●	●	●
Proven performance	●	●	●	●	●	●		●
Resistance to a wide range of chemicals			●	●		●	●	●
Fully wetted PTFE design				●				
Fully wetted 316 stainless steel design				●				
Suitable for a wide range of processes	●	●			●			●
Wide selection of shell and bladder materials	●	●						
Wide selection of bladder materials						●		
Bladder membranes available in NBR, EPDM and Viton B					●			
Wide selection of shell materials			●					
Wide selection of shell and piston materials								●
316 stainless steel non-corrosive shell					●			
Wide choice of process connection types	●	●	●	●			●	●
Supplied with a data book and full documentation	●	●	●	●			●	●
Additional NDE options available	●	●	●	●			●	●
Optional surface coatings (painting) and finishes (polishing)	●	●	●					●
ISO9001:2015 and ISO14001:2015 Approved					●	●		

Certifications	FG	HG	FD	FB	DS	DP/DV	CIP	FP
ISO9001:2015 and ISO14001:2015 Approved	●	●	●	●			●	●
Designed to PD5500 or ASME VIII	●	●	●	●			●	
Designed to ASME VIII								●
Third Party Design Appraisal and Inspection	●	●	●	●			●	●
PED (CE mark) / PESR (UKCA mark) Compliance	●	●	●	●			●	●
ATEX Certification for equipment intended for use in potentially explosive atmospheres Directive 2014/24/EU	●	●	●	●			●	●
ASME “U” Certificate of Authorization	●	●	●	●			●	●
National Board “NB” & “R” Authorization	●	●	●	●			●	●
Canadian Registration Number (CRN)	●	●	●	●			●	●

Documentation	FG	HG	FD	FB	DS	DP/DV	CIP	FP
Hydrostatic Pressure Test Certificate					●	●		
Installation, Operating and Maintenance Data					●	●		

COMMON APPLICATIONS

Oil & Gas
Used widely in the industry for:
- Corrosion/scale inhibitors
- Oxygen scavengers
- Biocides
- Pour point depressants
- Polyelectrolyte pumps
- Chemical injection pumps
- Methanol injection pumps
- Multi-plunger pumps for glycol regeneration and condensate recovery

Chemical & Petrochemical
For effectively handling slurries, solvents, acids, alkalies, olefins, amines, several other difficult materials as well as water and non aggressive fluids – pump applications include:
- Metering pumps
- Air-driven diaphragm pumps
- Muitiplunger pumps
- Peristaltic pumps
- Boiler feed
- Low/high pressure metering and transfer duties

Detergents and Toiletries
Fitted to blending pumps for perfumes, colorings, and other additives. Also used for air-operated-diaphragm pumps for bulk transport of base products and inlets of filling machines.

Food Dairy and Beverage
Used on metering pumps for blending, spray drying, mixing applications, and to remove high-frequency-pressure pulsations from homogenizers.

Paper & Textiles
Used for spraying applications with both air-operated-diaphragm pumps and proportioning pumps – also useful on blending and bulk transfer duties.

Paints & Varnishes
Found on peristaltic pumps, filling machines, air-operated-diaphragm, and blending pumps for a variety of applications.

Confectionery & Chocolate
Used on blending and spraying applications and on filling machines.

Water and Effluent Treatment
Used on dosing pumps, peristaltic pumps, and air-operated-diaphragm pumps for the metering of treatment chemicals and for the transfer of industrial and domestic effluent.

Water Jetting
Our In-line pulsation dampers are fitted to high-speed, multi-plunger pumps on mobile sewer cleaning rigs, rodding pumps, jet cutting, and cleaning applications to stop hose wear due to snaking and pipe vibration – and to reduce damage to valves.

Reverse Osmosis
Used in plants for desalination, dewatering of foodstuffs, and concentration of pharmaceutical products – they reduce the noise and vibration from high-speed multi-plunger pumps and protect the RO membranes

Internal flexible membrane reacts instantly to liquid expansion
Even a small temperature rise can cause static liquid to expand, generating dangerously high pressures. Without compensation, this pressure can rupture pipes, damage instruments, and lead to costly downtime. Leaks from flanges and fittings pose safety risks and may violate environmental regulations.

ABOUT COORSTEK

Founded in 1910, CoorsTek is a leading global manufacturer of technical ceramics. By leveraging expertise in engineering and materials science, CoorsTek provides solutions to complex technical challenges in the semiconductor, medical, aerospace and other industries. With over 400 proprietary material formulations, vertically integrated systems, and unparalleled process capabilities, CoorsTek partners with its customers to make the world measurably better.

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