fluimac
pump solution







DAMPER

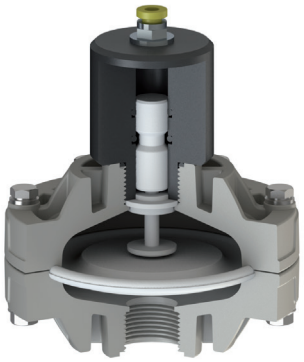
Pneumatic, automatic pulsation dampeners Realized in:
PP, PVDF, ALUMINIUM, SS AISI 316, POMc
Applicable to all size of pumps.
ATEX ZONE 2 AND ZONE 1 CERTIFICATION
Available also in FOOD version.

DAMPER

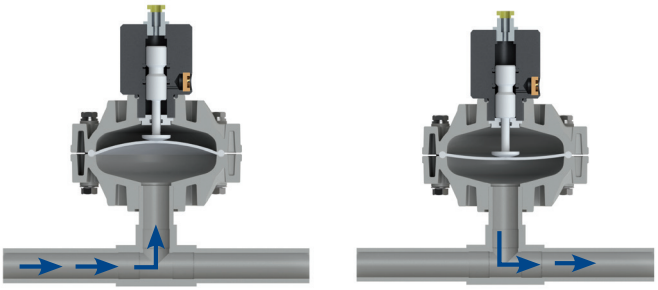
The active pulsation dampener is the most efficient way to remove pressure variations on the discharge of the pump. Fluimac pulsation dampener works actively with compressed air, setting automatically the correct pressure to minimize the pulsations. Pulsation dampeners require minimum maintenance and are, subject to the requirements of the application, available in the same housing and diaphragm materials as the pump.

HOW IT WORKS

The pulsating flow of the discharge forces the diaphragm upwards where it is cushioned by the air in the chamber.The flexing of the diaphragm absorbs the pulsation giving a smooth flow.



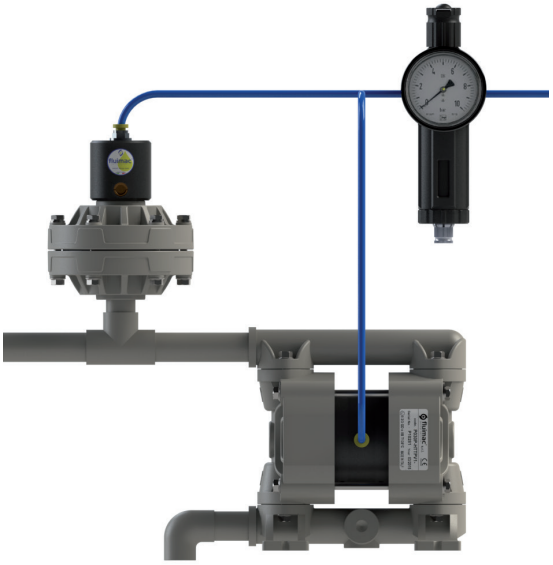
Significant Pulsation Reduction with an average 70% - 80% pulsation reduction in high back pressure applications.



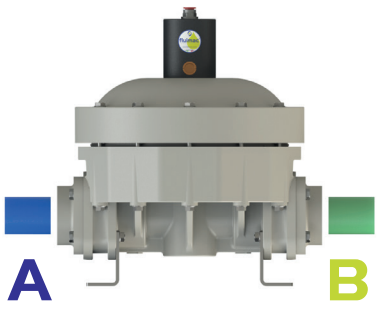
APPLICATION

- METERING/INJECTION/DOSING:
  Equalizes discharge pressure spikes, increasing accuracy;
- FILTER PRESS/INLINE FILTERS:
  Increases filter efficiency and life by providing a smooth flow;
- SPRAYING:
  Smooth, consistent spray pattern;
- FILLING:
  Eliminates inconsistent filling and splashing;
- TRANSFER:
  Eliminates harmful water hammer, preventing pipe and valve damage.

INSTALLATION



PORT POSITION

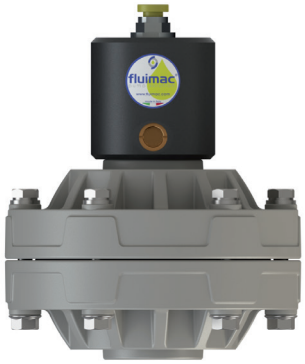


DAMPER 20

TECHNICAL DATA

DIMENSIONS

D20



PP

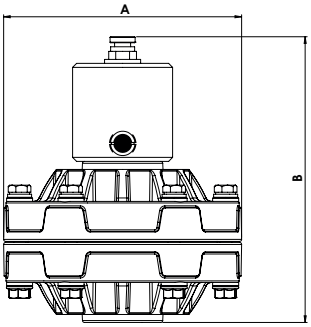
Fluid connections	**3/4" BSP**
Air connection	**6 mm**
Max air pressure	**7 bar**
Capacity Volume	**80 CC ~**

EX II 3/3 GD h IIB T4 (STD. zone 2)

EX II 2/2 GD h IIB T4 (zone 1)

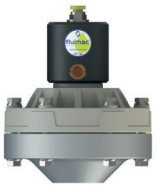
APPLY TO:
7 - 18 - 30

	PP	PVDF	POMc	AISI
A (mm)	119	119	119	119
B (mm)	143	143	143	143
Net Weight Kg	0,65	0,7	0,65	2
Max Temperature	+65°C	+95°C	+80°C	+95°C
Min Temperature	-4°C	-20°C	-5°C	-20°C



PVDF+CF

POMc



AISI

MODEL	CASING	DIAPHRAGM	CONNECTIONS	PORTS
D020	**P =** PP **KC =** PVDF+CF **O =** POMc **S =** SS	**HT =** HYTREL+PTFE **MT =** SANTOPRENE+PTFE **H =** HYTREL **M =** SANTOPRENE	**1 =** BSP **2 =** FLANGE **5 =** NPT	**T =** STANDARD

DAMPER 25

TECHNICAL DATA

DIMENSIONS

D25

PP

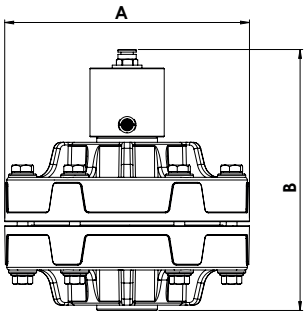
Fluid connections	**1" BSP**
Air connection	**8 mm**
Max air pressure	**8 bar**
Capacity Volume	**200 CC ~**

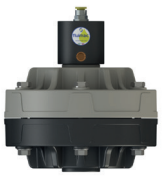
EX II 3/3 GD h IIB T4 (STD. zone 2)

EX II 2/2 GD h IIB T4 (zone 1)

APPLY TO:
55 - 60 - 90 - 120

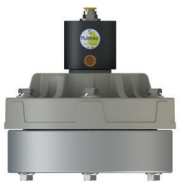
	PP	PVDF	POMc	AISI
A (mm)	181	181	181	181
B (mm)	195	195	195	182
Net Weight Kg	1,75	2	1,9	6,7
Max Temperature	+65°C	+95°C	+80°C	+95°C
Min Temperature	-4°C	-20°C	-5°C	-20°C





PVDF+CF

POMc



AISI

MODEL	CASING	DIAPHRAGM	CONNECTIONS	PORTS
D025	**P =** PP **KC =** PVDF+CF **O =** POMc **S =** SS	**HT =** HYTREL+PTFE **MT =** SANTOPRENE+PTFE **H =** HYTREL **M =** SANTOPRENE **D =** EPDM **N =** NBR	**1 =** BSP **2 =** FLANGE **5 =** NPT	**T =** STANDARD **AB =** SS

DAMPER 40

TECHNICAL DATA

DIMENSIONS

D40

PP

Fluid connections	**1”1/2 BSP**
Air connection	**10 mm**
Max air pressure	**8 bar**
Capacity Volume	**700 CC ~**

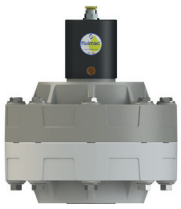
EX II 3/3 GD h IIB T4 (STD. zone 2)

EX II 2/2 GD h IIB T4 (zone 1)

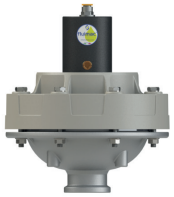
APPLY TO:
170 - 252 - 400

	PP	PVDF	POMc	AISI
A (mm)	231	231	231	231
B (mm)	270	270	270	267
Net Weight Kg	4	4,6	4,2	5,6
Max Temperature	+65°C	+95°C	+80°C	+95°C
Min Temperature	-4°C	-20°C	-5°C	-20°C

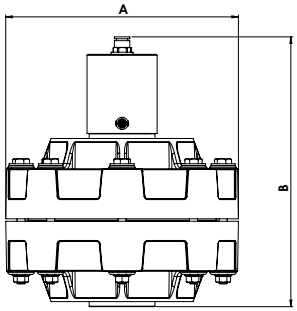
PVDF+CF



POMc



AISI



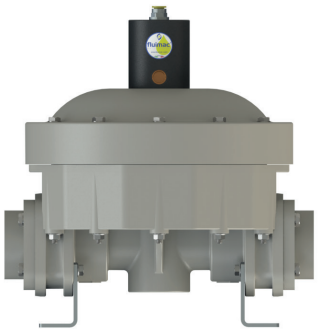
MODEL	CASING	DIAPHRAGM	CONNECTIONS	PORTS
D040	**P =** PP **KC =** PVDF+CF **O =** POMc **S =** SS	**HT =** HYTREL+PTFE **MT =** SANTOPRENE+PTFE **H =** HYTREL **M =** SANTOPRENE	**1 =** BSP **2 =** FLANGE **5 =** NPT	**T =** STANDARD

DAMPER 50

TECHNICAL DATA

DIMENSIONS

D50



PP

Fluid connections	**2” BSP**
Air connection	**12 mm**
Max air pressure	**8 bar**
Capacity Volume	**2900 CC ~**

EX II 3/3 GD h IIB T4 (STD. zone 2)

EX II 2/2 GD h IIB T4 (zone 1)

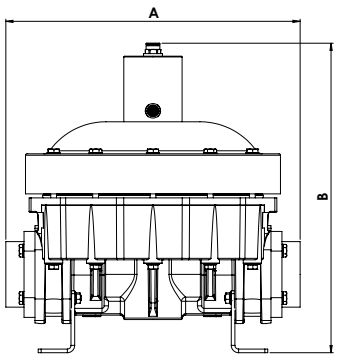
APPLY TO:
700 - 1000

	PP	PVDF	ALU	AISI
A (mm)	404	404	400	402
B (mm)	425	425	425	408
Net Weight Kg	14	17	14,5	21,6
Max Temperature	+65°C	+95°C	+80°C	+95°C
Min Temperature	-4°C	-20°C	-5°C	-20°C

PVDF+CF

ALU

AISI



MODEL	CASING	DIAPHRAGM	O-RING	CONNECTIONS	PORTS
D050	**P =** PP **KC =** PVDF+CF **A =** ALU **S =** SS	**HT =** HYTREL+PTFE **MT =** SANTOPRENE+PTFE **H =** HYTREL **M =** SANTOPRENE **D =** EPDM **N =** NBR	**D =** EPDM **V =** VITON **N =** NBR **T =** PTFE	**1 =** BSP **2 =** FLANGE **5 =** NPT	**AB =** STANDARD