

DAMPER

Pneumatic, automatic pulsation dampeners

MATERIAL OF CONSTRUCTION:

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 and a diaphragm, 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 WORK

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



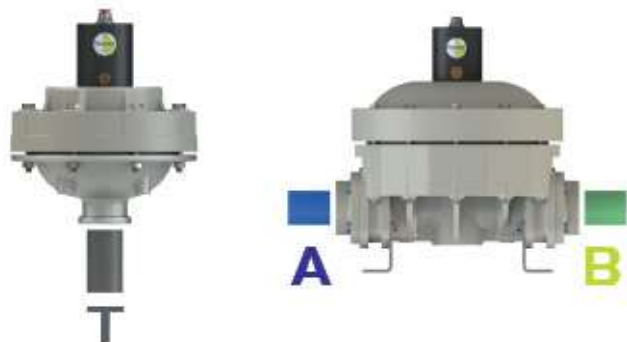
APPLICATION

- **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 **8 bar**
 Capacity Volume **80 CC ~**

II 3/3 G Ex h IIC T4 Gc
 II 3 D Ex h IIIB T135°C Dc X

APPLY TO:
4 - 8 - 20 - 35



PVDF+CF



POMc

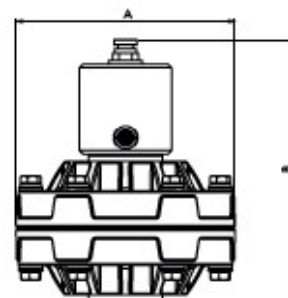


SS



SS
(DF020)

	PP	PVDF	POMc	SS
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



MODEL	CASING	DIAPHRAGM	CONNECTIONS	PORTS
D020	P = PP KC = PVDF+CF O = POMc S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W = SANTOPRENE H.R.	1 = BSP 2 = FLANGE 5 = NPT	T = STANDARD
DF020	S = SS	HT = HYTREL+PTFE	3 = TRI-CLAMP	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 ~**

II 3/3 G Ex h IIC T4 Gc
 II 3 D Ex h IIIB T135°C Dc X

APPLY TO:
55 - 60 - 90 - 120



PVDF+CF



POMc

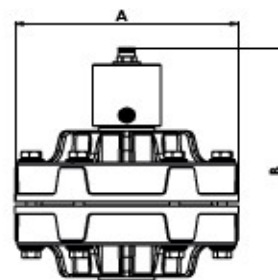


SS



SS
(DF025)

	PP	PVDF	POMc	SS
A (mm)	181	181	181	181
B (mm)	195	195	195	195
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



MODEL	CASING	DIAPHRAGM	CONNECTIONS	PORTS
D025	P = PP KC = PVDF+CF O = POMc S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W = SANTOPRENE H.R. D = EPDM N = NBR	1 = BSP 2 = FLANGE 3 = TRI-CLAMP 5 = NPT	T = STANDARD
DF025	S = SS	HT = HYTREL+PTFE	3 = TRI-CLAMP	T = STANDARD

DAMPER 40

TECHNICAL DATA

DIMENSIONS

D40



PP



PVDF+CF



POMc



SS



SS
(DF040)

Fluid connections

1" 1/2 BSP

Air connection

10 mm

Max air pressure

8 bar

Capacity Volume

700 CC ~

II 3/3 G Ex h IIB T4 Gc

II 3 D Ex h IIB T135°C Dc X

APPLY TO:
170 - 252 - 400

A (mm)

PP	PVDF	POMc	SS
231	231	231	231

B (mm)

270	270	270	267
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Net Weight Kg

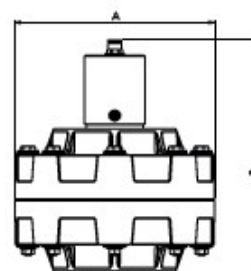
4	4,6	4,2	5,6
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Max Temperature

+65°C	+95°C	+80°C	+95°C
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Min Temperature

-4°C	-20°C	-5°C	-20°C
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MODEL	CASING	DIAPHRAGM	CONNECTIONS	PORTS
D040	P = PP KC = PVDF+CF O = POMc S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W = SANTOPRENE H.R. D = EPDM N = NBR	1 = BSP 2 = FLANGE 5 = NPT	T = STANDARD
DF040	S = SS	HT = HYTREL+PTFE	3 = TRI-CLAMP	T = STANDARD

DAMPER 50

TECHNICAL DATA

DIMENSIONS

D50



PP



PVDF+CF



ALU



SS



SS
(DF050)

Fluid connections

2" BSP

Air connection

12 mm

Max air pressure

8 bar

Capacity Volume

2900 CC ~

II 3/3 G Ex h IIB T4 Gc

II 3 D Ex h IIB T135°C Dc X

APPLY TO:
700 - 1000

A (mm)

PP	PVDF	POMc	SS
404	404	400	402

B (mm)

425	425	425	408
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Net Weight Kg

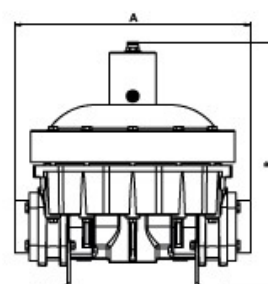
14	17	14,5	21,6
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Max Temperature

+65°C	+95°C	+80°C	+95°C
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Min Temperature

-4°C	-20°C	-5°C	-20°C
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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 W = SANTOPRENE H.R. D = EPDM N = NBR	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGE 5 = NPT	AB = STANDARD
DF050	S = SS	HT = HYTREL+PTFE	T = PTFE	3 = TRI-CLAMP	AB = STANDARD