AUTOMATIC PULSATION DAMPERS

The EQUAFLUX dampers are used with fluids with a high apparent viscosity, also with large suspended solids..
They adapt automatically to the system conditions, without any manual adjustments or calibrations. **The high capacity of minimising pulsations, vibrations and water hammer renders this component ideal for protecting the system, providing a regular outlet flow**.
The vast range of construction materials allows us to select the best chemical compatibility with the fluid and/or the environment, without neglecting the correct temperature range. The dampers are also available for use in potentially explosive atmospheres (ATEX certification).

The EQUAFLUX is operated by the same compressed air that drives the pump. The compressed air, introduced in the counter-pressure chamber (behind the diaphragm), creates a self-adjusting pneumatic damping cushion based on the pressure exerted by the pump.

- **Product designed and constructed in Italy**
- **Operates with non-lubricated air**
- **High performance and strength**
- **Suitable for minimising pulsating flows**
- **Suitable for minimising vibrations during the operation of the pump**

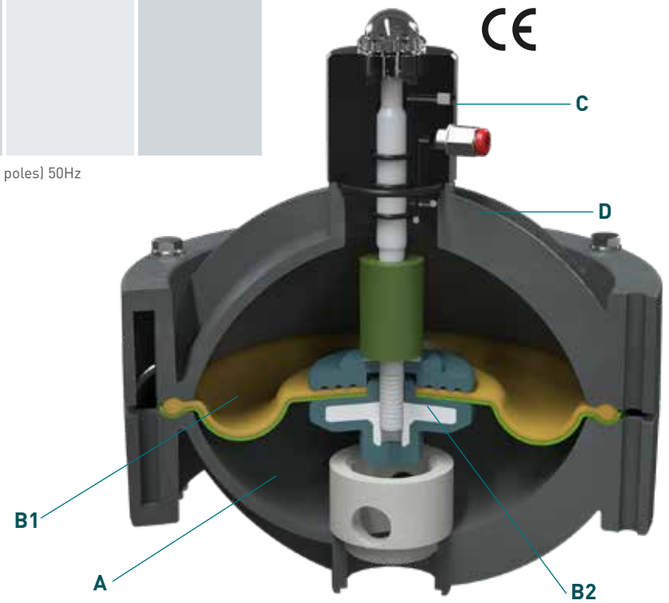
EQUAFLUX DAMPERS CODES ENCODING

ex. EQ100PCHTC
Equaflux 100 PP+CF, Hytrel®, air side diaphragm, PTFE product side diaphragm, conduct.

EQ100	PC	H	T	C
DAMPER MODEL	DAMPER CASING	AIR-SIDE DIAPHRAGM	PRODUCT-SIDE DIAPHRAGM	CONDUCT VERSION
EQ 51 - Equaflux 51 **EQ 100** - Equaflux 100 **EQ 200** - Equaflux 200 **EQ 302** - Equaflux 302 **EQ 303** - Equaflux 303	**P** - Polypropylene **FC** - PVDF+CF **R** - PPS-V **A** - AISI 316 (excluded EQ 303) **AL** - Aluminium **PC** - PP + CF	**H** - Hytrel® **M** - Santoprene® **D** - EPDM **N** - NBR	**T** - PTFE	(zone 1) II 2/2GD c IIB T135°C **C** - on request

* Three-phase asynchronous eurotension motor fitted as standard (2 poles) 50Hz
** Available only for IM 80/90 pumps

A = expansion chamber
B2 = air-side diaphragm
B2 = fluid-side diaphragm
C = automatic pneumatic valve
D = pneumatic chamber



Specifications and types

STANDARD: II 3G Ex h IIB T4 Gc, II 3D Ex h IIIB T135°C Dc (zone 2)
CONDUCT: II 2G Ex h IIb T4 Gb, II 2D Ex h IIIB T135°C Db (zone 1)









Fitting Product	Air fitting	Operating pressure	Application	Material* (half-casing in contact with the fluid)	Weight	Operating time	Dim. (mm)
G 3/4"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Midgetbox, Cubic15 Boxer7, Boxer15 Microboxer, Boxer35	Polypropylene	0.5 Kg	from +3°C to +65°C	121x117
G 3/4"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Midgetbox, Cubic15 Boxer7, Boxer15 Microboxer, Boxer35	PP + CF	0.5 Kg	from +3°C to +65°C	121x117
G 3/4"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Cubic15, Boxer7, Boxer15 Microboxer, Boxer35	PVDF	0.5 Kg	from +3°C to +95°C	121x117
G 3/4"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer7, Boxer15 Microboxer, Boxer35	PPS	0.6 Kg	from +3°C to +95°C	121x117
G 1/2"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer7, Boxer15 Microboxer, Boxer35	AISI 316 L steel	1.33 Kg	from +3°C to +95°C	133x117

*Material on request: • UHMWPE • POMc • DUPLEX/S.DUPLEX

AIR SIDE HALF-CASING MATERIAL

- PP
- PP+CF
- ALUMINIUM

DIAPHRAGM MATERIALS

- NBR
- EPDM
- Hytrel
- Santoprene
- PTFE

CAPS MATERIALS

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- PVDF
- PPS
- Natural ECTFE
- AISI 316 L

EQUAFLUX 100

Specifications and types

STANDARD: II 3G Ex h IIB T4 Gc, II 3D Ex h IIIB T135°C Dc (zone 2)
CONDUCT: II 2G Ex h IIb T4 Gb, II 2D Ex h IIIB T135°C Db (zone 1)

PP



PPS



PVDF



Electropolished AISI 316 steel



Fitting Product	Air fitting	Operating pressure	Application	Material* (half-casing in contact with the fluid)	Weight	Operating time	Dim. (mm)
G 1"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer50, Boxer81	Polypropylene	1.5 Kg	from +3°C to +65°C	177x170
G 1"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer50, Boxer81	PP+CF	1.5 Kg	from +3°C to +65°C	177x170
G 1"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer50, Boxer81	PVDF	1.7 Kg	from +3°C to +95°C	177x170
G 1"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer50, Boxer90	PPS	1.7 Kg	from +3°C to +95°C	177x170
G 1"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Miniboxer, Boxer81	Electropolished AISI 316 steel	2.56 Kg	from +3°C to +95°C	183.2x151

*Material on request: • UHMWPE • POMc • DUPLEX/S.DUPLEX

AIR SIDE HALF-CASING MATERIAL

- PP
- PP+CF

DIAPHRAGM MATERIALS

- NBR
- EPDM
- Hytrel
- Santoprene
- PTFE

CAPS MATERIALS

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- PVDF
- PPS
- Natural ECTFE
- AISI 316 L

EQUAFLUX 200

Specifications and types

STANDARD: II 3G Ex h IIB T4 Gc, II 3D Ex h IIIB T135°C Dc (zone 2)
CONDUCT: II 2G Ex h IIb T4 Gb, II 2D Ex h IIIB T135°C Db (zone 1)

PP



PPS



PVDF



Electropolished AISI 316 steel



Fitting Product	Air fitting	Operating pressure	Application	Material* (half-casing in contact with the fluid)	Weight	Operating time	Dim. (mm)
G 1"1/2	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer100, Boxer150 Boxer251	Polypropylene	3.8 Kg	from +3°C to +65°C	283.2x254
G 1"1/2	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer100, Boxer150 Boxer251	PP+CF	3.8 Kg	from +3°C to +65°C	283.2x254
G 1"1/2	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer100, Boxer150 Boxer251	PVDF	4.5 Kg	from +3°C to +95°C	283.2x254
G 1"1/2	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer100, Boxer150 Boxer251	PPS	4.5 Kg	from +3°C to +95°C	283.2x254
G 1"1/2	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer100, Boxer150 Boxer252	Electropolished AISI 316 steel	7.45 Kg	from +3°C to +95°C	264.7x254

*Material on request: • UHMWPE • POMc • DUPLEX/S.DUPLEX

AIR SIDE HALF-CASING MATERIAL

- PP
- PP+CF

DIAPHRAGM MATERIALS

- NBR
- EPDM
- Hytrel
- Santoprene
- PTFE

CAPS MATERIALS

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- PVDF
- Natural ECTFE
- AISI 316 L
- Alluminio

EQUAFLUX 302

Specifications and types

STANDARD: II 3G Ex h IIB T4 Gc, II 3D Ex h IIIB T135°C Dc (zone 2)
CONDUCT: II 2G Ex h IIb T4 Gb, II 2D Ex h IIIB T135°C Db (zone 1)









Fitting Product	Air fitting	Operating pressure	Application	Material* (half-casing in contact with the fluid)	Weight	Operating time	Dim. (mm)
G 2"	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer522	Polypropylene	23 Kg	from +3°C to +65°C	398x516
G 2"	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer522	PP + CF	23 Kg	from +3°C to +65°C	398x516
G 2"	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer522	PVDF	28.5 Kg	from +3°C to +95°C	398x516
G 2"	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer502	ALU	26 Kg	from +3°C to +95°C	356x352
G 2"	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer502	Electropolished AISI 316 steel	32 Kg	from +3°C to +95°C	356x352

*Material on request: • DUPLEX/S.DUPLEX

AIR SIDE HALF-CASING MATERIAL

• Central boxer 502/503 (PP)

DIAPHRAGM MATERIALS

• NBR
• EPDM
• Hytrel
• Santoprene
• PTFE

CAPS MATERIALS

• Polypropylene (with glass additive)
• Conductive polypropylene (with carbon additive)
• PVDF
• Aluminium
• AISI 316 L

EQUAFLUX 303

Specifications and types

STANDARD: II 3G Ex h IIB T4 Gc, II 3D Ex h IIIB T135°C Dc (zone 2)
CONDUCT: II 2G Ex h IIb T4 Gb, II 2D Ex h IIIB T135°C Db (zone 1)







Fitting Product	Air fitting	Operating pressure	Application	Material* (half-casing in contact with the fluid)	Weight	Operating time	Dim. (mm)
G 3"	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer503	Polypropylene	23 Kg	from +3°C to +65°C	398x516
G 3"	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer503	PP + CF	23 Kg	from +3°C to +65°C	398x516
G 3"	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer503	PVDF	28.5 Kg	from +3°C to +95°C	398x516
G 3"	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer503	ALU	29 Kg	from +3°C to +95°C	356X352

*Material on request: • DUPLEX/S.DUPLEX

AIR SIDE HALF-CASING MATERIAL

• Central boxer 502/503 (PP)

DIAPHRAGM MATERIALS

• NBR
• EPDM
• Hytrel
• Santoprene
• PTFE

CAPS MATERIALS

• Polypropylene (with glass additive)
• Conductive polypropylene (with carbon additive)
• PVDF
• AISI 316 L
• Alluminio