

PULSATION DAMPENER

TECHNICAL FEATURES

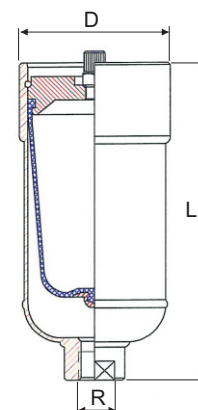
Dampener with **FPM / EPDM** bladder and **PP** body

Code (FPM)	Code (EPDM)	Flow (l/h)	Capacity (litre)	Pressure (bar)	R (BSP)	D (mm)	L (mm)	Weight (Kg)
18343	18394	2,5-100	0,15	10	1/2"	80	135	0,5
18344	18395	100-300	0,35	10	3/4"	90	170	0,8
18345	18396	200-500	0,65	10	3/4"	100	230	1,2
18346	18397	400-2000	1,4	10	3/4"	130	295	2,4

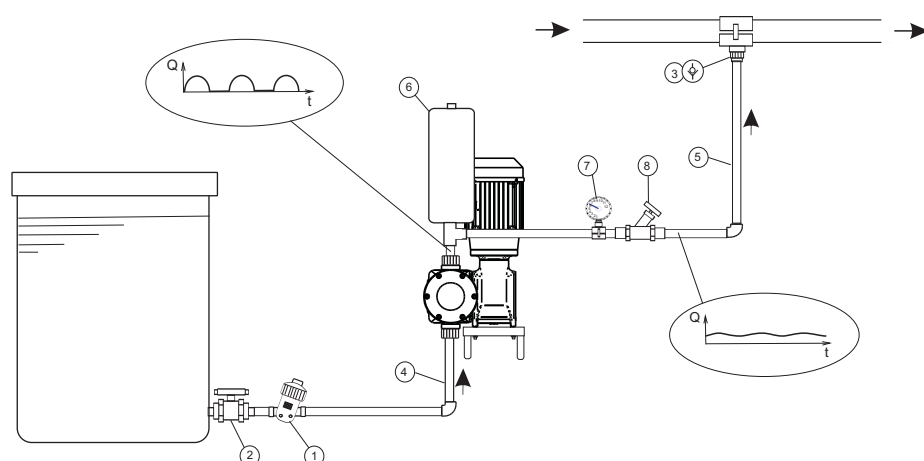
Dampener with **FPM / EPDM** bladder and **AISI316** body

Code (FPM)	Code (EPDM)	Flow (l/h)	Capacity (litre)	Pressure (bar)	R (BSP)	D (mm)	L (mm)	Weight (Kg)
18339	18390	2,5-100	0,15	180	1/2"	70	118	1,8
18340	18391	100-300	0,35	130	3/4"	80	162	2,6
18341	18392	200-500	0,65	50	3/4"	90	205	2,5
18342	18393	400-2000	1,4	40	3/4"	110	245	4,6

Note: Bladders available in others materials (EPDM,Nitril,Butil,Silicone)



INSTALATION

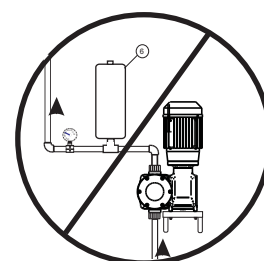


- 1. FILTER
- 2. VALVES
- 3. CHECK VALVES

- 4. SUCTION LINE
- 5. INJECTION LINE
- 6. PULSATION DAMPENER

- 7. MANOMETER
- 8. THROTTLE VALVE

WRONG INSTALLATION



DAMPENER VOLUME CALCULATION

V_a = Dampener volume (L)

Q = Dosing pumps flow (L/h)

F = Dosing frequency (cycles/min.)

Residual pulsation 3%

$$V_a \approx \frac{Q}{3 F}$$

Residual pulsation 6%

$$V_a \approx \frac{Q}{8 F}$$

DAMPENER INFLATION PRESSURE CALCULATION

P_a = Dampener pressure

P_i = Line pressure

$$P_a \approx 0,75 \times P_i$$

Nota: The dampener can be set at needed pressure if the customer ask for it.