Active Pulsation Dampeners

CF-X25SWFR Model

1” Pulsation Dampener Data Sheet

Fully automatic operation with self-adjusting speed & pressure control.
For improved flow, accuracy & surge control in metering, dosing, blending, mixing, spraying, filling or important process applications.
Reduces liquid pulsation, liquid surge, foaming & splashing.
Helps to protect the Pump, Pipes, Fittings and Process Machinery from problems caused by pulsation, vibration, thermal expansion, hydraulic shock, water-hammer & cavitation.



CF-X25SWFR
1” Electro Polished Stainless Dampener

25STFR Pulsation Dampener Specifications	
Model / Material	SWFR – Electro Polished SCS14
Air chamber	E-Nickel Aluminium
Diaphragm	PTFE/EPDM Easy clean
Liquid Port	Ferrule ISO 1.5s ≈ 3A 1½”
Air inlet	Rc ⅛
Operating Pressure *1	0 - 0.7 MPa [0 - 100 psi]
Max. Discharge Pressure	0.7 MPa [100 psi]
Max. Air Consumption	20 l/min (ANR) [0.70 SCFM]
Max. Solid Size	8 mm or less
Ambient Temp. Range	0 - 70°C [32 - 158°F]
Liquid Temp. Range	0 - 100°C [32 - 212°F]

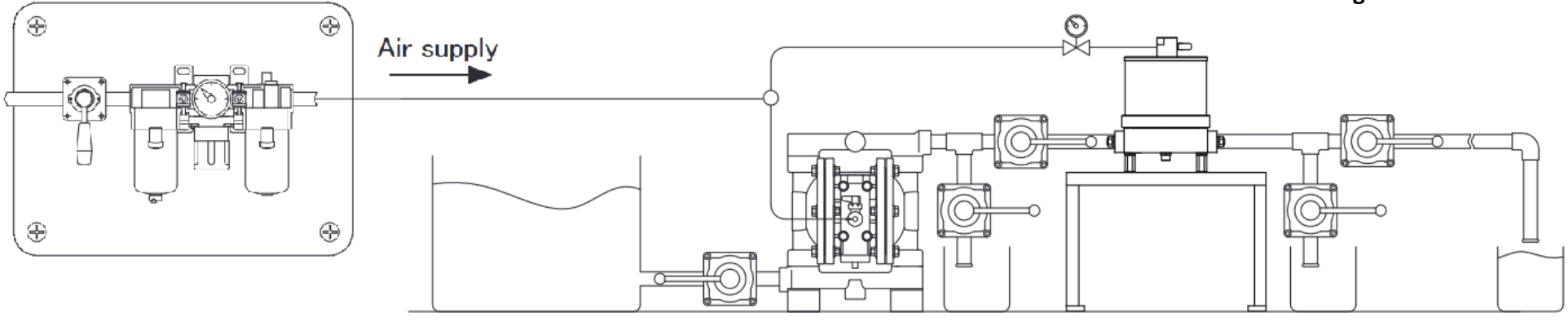
Wetted Materials Of Construction

CF-X25	SWFR
Dampener wetted Parts	SCS14 Electro polished
Diaphragm	PTFE/EPDM
O-ring	PTFE
Valve Seat	PTFE
Center Disk	SUS316
Weight	15.5kg (34.2lbs)



“W” Diaphragm
One piece easy clean PTFE sheet
With a bonded EPDM rubber backing

Installation Layout Sample

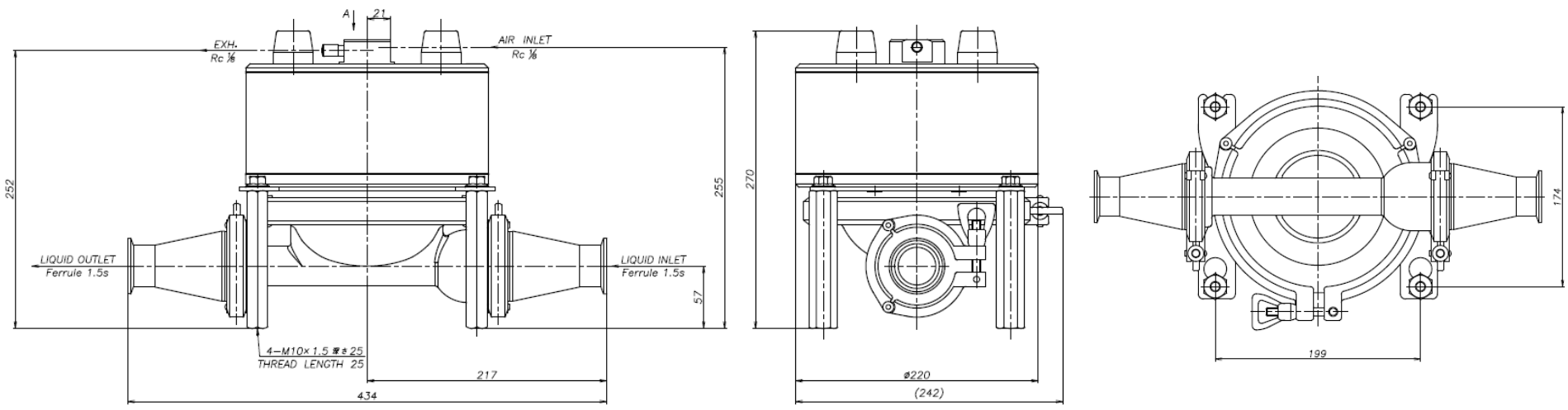


*Install the dampener within 1 m from pump discharge port.
*Required minimum pump discharge pressure of 0.1 MPa to make the dampener efficiency.
*Set the supply air pressure to the reference level of "pump discharge pressure x 1.1" by using the regulator connected to the dampener and make a fine adjustment in the range of ± 0.05 MPa while checking the pulsation as required.

For more information about TC-X Pumps please contact: sales@iwaki.de
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Active Pulsation Dampeners

Dimensional Drawings



Nomenclature

Series	CF-X	25	S	W	FR

Connection Size
25 (1”)

Pump Body Material (Wetted)
S: Stainless Steel E-Polished

Diaphragm Material
W: PTFE-EPDM

Connection Type
Ferrule(Tri-clamp)

Applicable Pumps



TC-X250SWFR-A
1” SUS 316 Sanitary Pump
180 l/min



AODD Pump Capabilities

Self Priming	Variable Discharge Pressures	Inherently Safe Design
Run Dry	Transfer Liquid Slurries	Portable & Easy to Use
Run up to Dead Head	Transfer Large Sized Solids	Transfer Viscous Fluids
Variable Flow Rates	Handle Abrasives	Frequent Start Stop Operation
Shear Sensitivity	Transfer Chemicals	Powered by Compressed Air

II2G ExhIIBT5Gb「0°C<Ta<70°C」
II2D ExhIIIBT100°CDb「0°C<Ta<70°C」

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