Active Pulsation Dampeners

CF-X15 Model

½” 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-X15A□
½” Aluminum Dampener

15 Pulsation Dampener Specifications		
Model / Material	**A□ S□**	**P□ V□ (D□)**
Liquid Port	Rc 1/2 [NPT 1/2]	
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	1 mm or less	
Ambient Temp. Range	0 - 70°C [32 - 158°F]	
Liquid Temp. Range	*2	0 - 60°C [32 - 140°F]

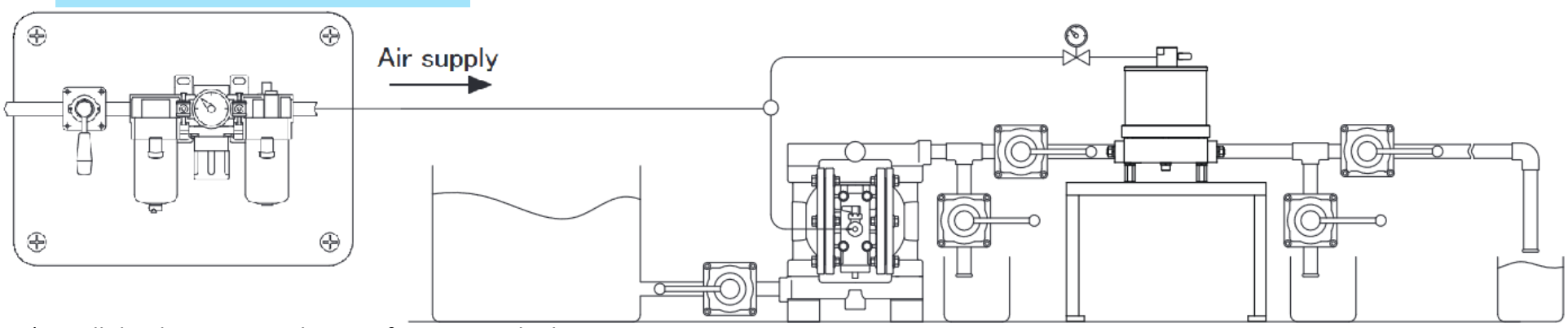
*1 Max. applied air pressure of the plastic dampener depends on the liquid temperature.
*2 Diaphragms NBR/CR 0 - 70°C [32 - 158°F] TPEE/EPDM 0 - 80°C [32 - 176°F] FKM/TPO/PTFE 0 - 100°C [32 - 212°F]

Wetted Materials Of Construction

CF-X15	AC	AN	AE	AT	AH	AS	AW	SC	SN	SE	ST	SH	SS	SW
Dampener wetted Parts	ADC12							SCS14						
Diaphragm	CR	NBR	EPDM	PTFE	TPEE	TPO	PTFE-EPDM	CR	NBR	EPDM	PTFE	TPEE	TPO	PTFE-EPDM
Valve Stopper	PA							SCS14						
O-ring	NBR	NBR	EPDM	PTFE	NBR	EPDM	PTFE	NBR	NBR	EPDM	PTFE	NBR	EPDM	PTFE
Valve Seat	A5056							SUS316						
Center Disk	A5056							SUS316						
Weight	5.2kg (11.5 lbs)							6.7kg (14.8 lbs)						

CF-X15	PC	PN	PE	PT	PH	PS	PW	VT	VS	VW	DT	DW
Dampener wetted Parts	PP							PVDF			POM	
Diaphragm	CR	NBR	EPDM	PTFE	TPEE	TPO	PTFE-EPDM	PTFE	TPO	PTFE-EPDM	PTFE	PTFE-EPDM
Valve Stopper	PP							PVDF			POM	
O-ring	NBR	NBR	EPDM	PTFE	NBR	EPDM	PTFE	PTFE			PTFE	
Valve Seat	PP							PVDF			POM	
Center Disk	PP							PVDF			POM	
Weight	5.0kg (11.0 lbs)							5.4kg (11.9 lbs)			4.8kg (10.6 lbs)	

Installation Layout Sample

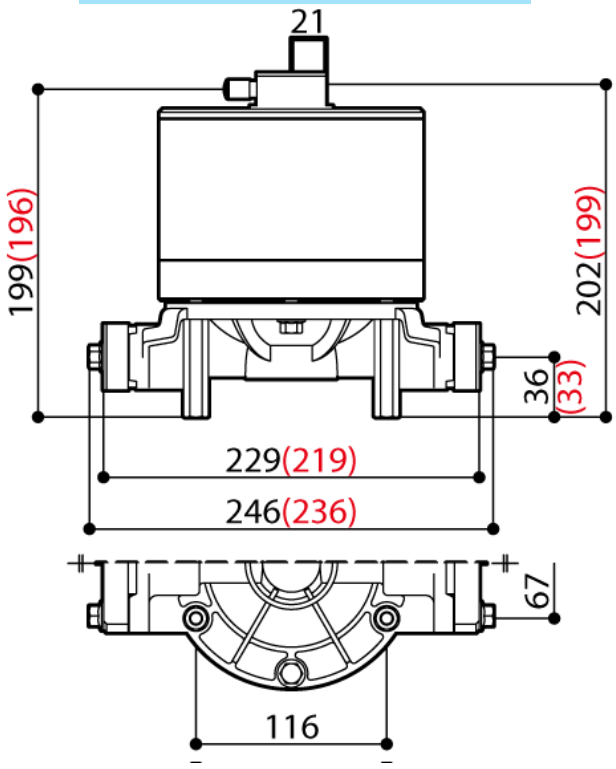


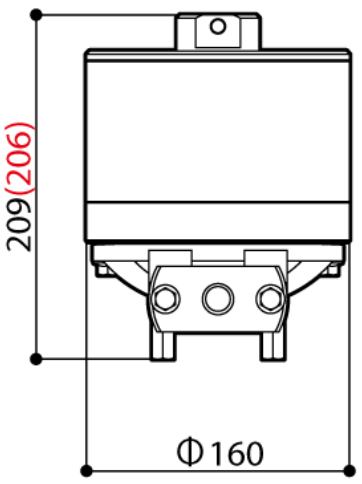
*Install the dampener within 1 m from pump discharge port.
*Required minimum pump discharge pressure of 0.1 MPa to make the dampener efficiency.
*Set the supply air pressure to the reference level of "pump discharge pressure x 1.1" by using the regulator connected to the dampener and make a fine adjustment 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
WWW.IWAKI.DE

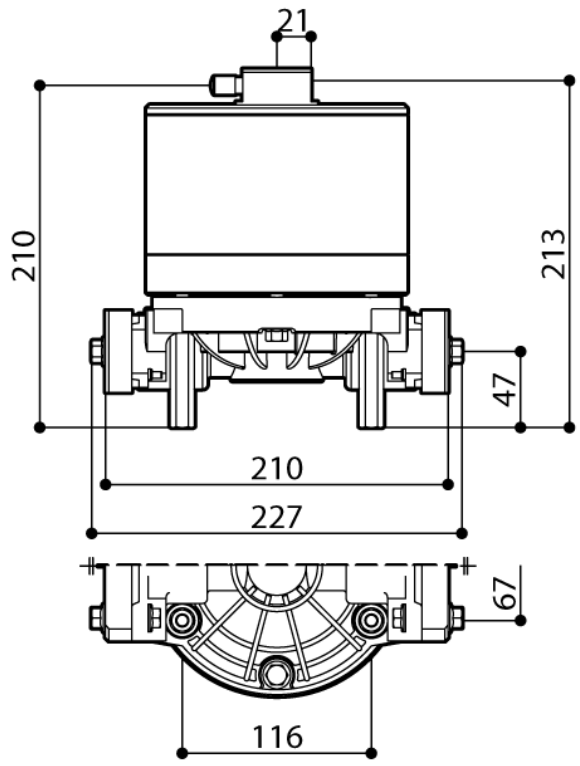
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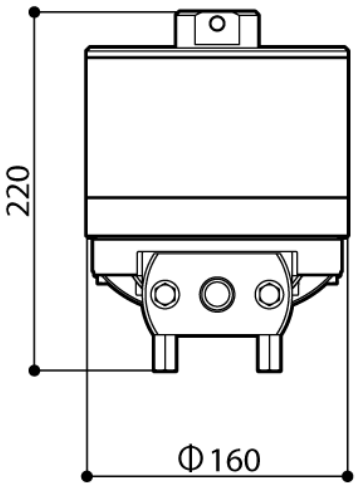
Dimensional Drawings





15A ☐ [15A ☐ N] · 15S ☐ [15S ☐ N]





15P ☐ [15P ☐ N] · 15V ☐ [15V ☐ N] · 15D ☐ [15D ☐ N]

Nomenclature

Series — CF-X | 15 | P | T | | - | X — Special Options

- 15: Connection Size 15 (½")
- P: Pump Body Material (Wetted)
  - A: Aluminum
  - S: Stainless Steel
  - P: PP
  - V: CFPVDF
- T: Diaphragm Material
  - W: PTFE-EPDM
  - C: CR
  - N: NBR
  - T: PTFE
  - H: TPEE
  - S: TPO
- Connection Type
  - ☐:Rc
  - N:NPT



CF-X15V☐
½" PVDF Dampener

Applicable Pumps



Series TC-X151



Series TC-X152

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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