Active Pulsation Dampeners

IWAKI AIR EUROPE

CF-X25 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-X25S□
1” Stainless Dampener

25 Pulsation Dampener Specifications		
Model / Material	**A□ S□ F□**	**G□ V□**
Liquid Port	Rc 1 [NPT 1]	
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	6.5 mm or less	3 mm or less
Ambient Temp. Range	0 - 70°C [32 - 158°F]	
Liquid Temp. Range	*2	0 - 60°C [32 - 140°F]

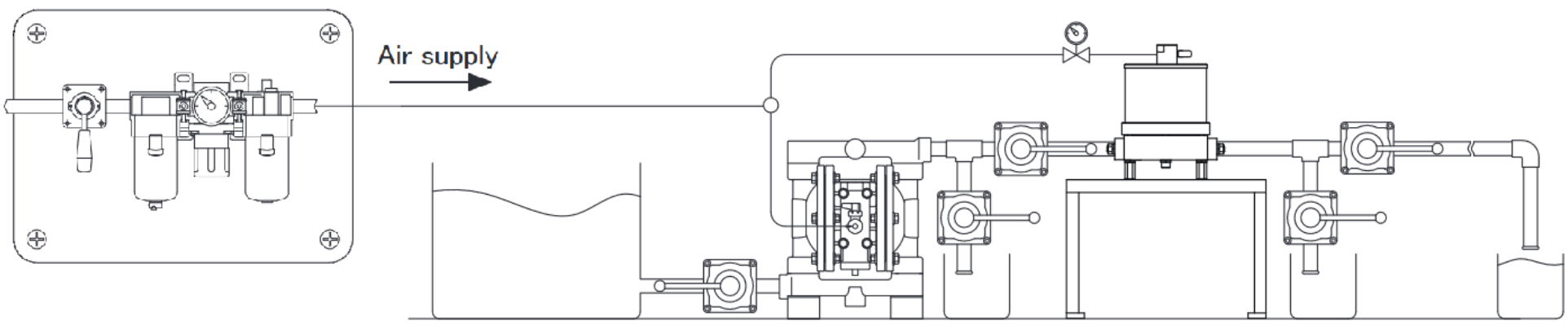
*1 Max. applied air pressure of the plastic dampener depends on the liquid temperature.
*2 Diaphragms NBR/CR 0 - 70°C [32 - 158°F] TPEE/EPDM 0 - 80°C [32 - 176°F] FKM/TPO/PTFE 0 - 100°C [32 - 212°F]

Wetted Materials Of Construction

CF-X25	AC	AN	AE	AV	AT	AH	AS	AW	SC	SN	SE	SV	ST	SH	SS	SW
Dampener wetted Parts	ADC12								SCS14							
Diaphragm	CR	NBR	EPDM	FKM	PTFE	TPEE	TPO	PTFE-EPDM	CR	NBR	EPDM	FKM	PTFE	TPEE	TPO	PTFE-EPDM
O-ring	NBR	NBR	EPDM	FKM	PTFE	NBR	EPDM	PTFE	NBR	NBR	EPDM	FKM	PTFE	NBR	EPDM	PTFE
Valve Seat	CR	NBR	EPDM	FKM	PTFE	NBR	EPDM	PTFE	CR	NBR	EPDM	FKM	PTFE	NBR	EPDM	PTFE
Center Disk	SUS316								SUS316							
Weight	10.0kg (22.1 lbs)								15.0kg (33.1 lbs)							

CF-X25	FC	FN	FE	FV	FT	FH	FS	FW	GC	GN	GE	GV	GT	GH	GS	GW	VT	VS	VW
Dampener wetted Parts	S45C								PPG								PVDF		
Diaphragm	CR	NBR	EPDM	FKM	PTFE	TPEE	TPO	PTFE-EPDM	CR	NBR	EPDM	FKM	PTFE	TPEE	TPO	PTFE-EPDM	PTFE	TPO	PTFE-EPDM
O-ring	NBR	NBR	EPDM	FKM	PTFE	NBR	EPDM	PTFE	NBR	NBR	EPDM	FKM	PTFE	NBR	EPDM	PTFE	PTFE	EPDM	PTFE
Valve Seat	CR	NBR	EPDM	FKM	PTFE	NBR	EPDM	PTFE	PPG								PVDF		
Center Disk	SUS316								PPG								PVDF		
Weight	15.0kg (33.1 lbs)								10.0kg (22.1 lbs)								11.0kg (24.5 lbs)		

Installation Layout Sample

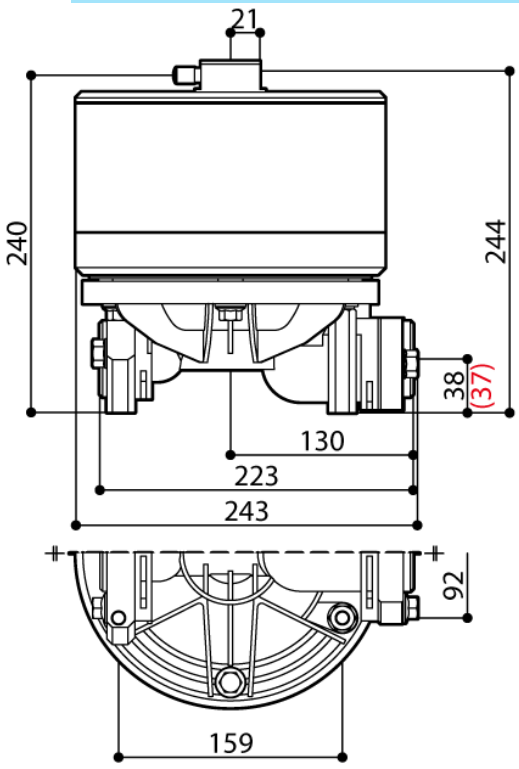


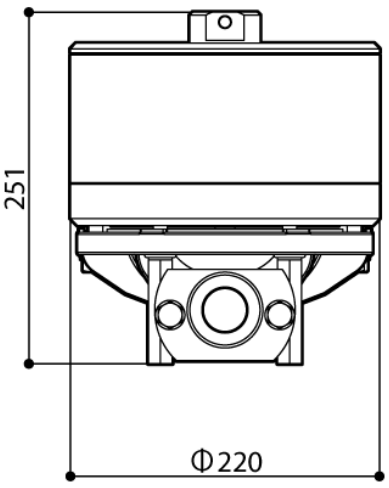
*Install the dampener within 1 m from pump discharge port.
*Required minimum pump discharge pressure of 0.1 MPa to make the dampener efficiency.
*Set the supply air pressure to the reference level of "pump discharge pressure x 1.1" by using the regulator connected to the dampener and make a fine adjustment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

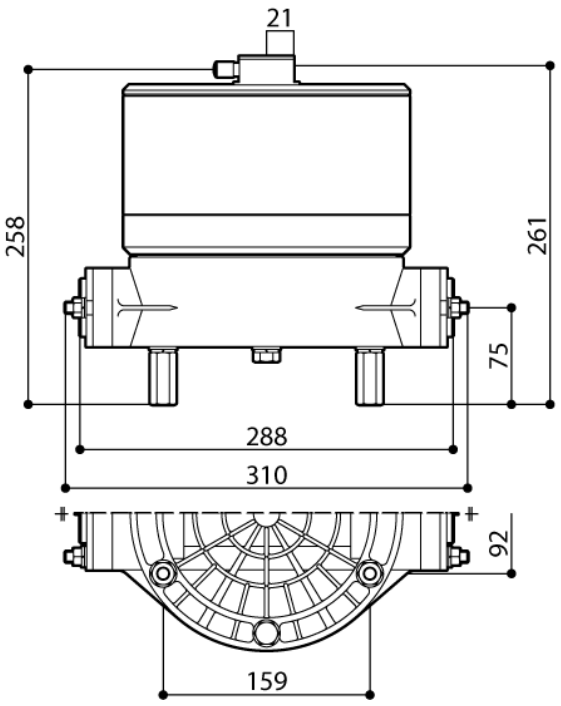
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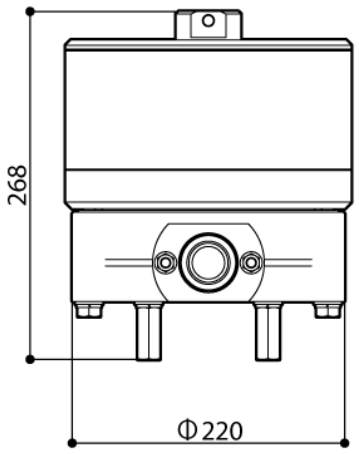
Dimensional Drawings





25A ☐ [25A ☐ N] • 25S ☐ [25S ☐ N]





25G ☐ [25G ☐ N] • 25V ☐ [25V ☐ N]

Nomenclature

Series: CF-X | 25 | V | T | | - | X : Special Options

- 25: Connection Size 25 (1”)
- V: Pump Body Material (Wetted)
  - A: Aluminum
  - S: Stainless Steel
  - F: Cast-Iron
  - G: Glass Filled PP
  - V: Carbon Filled PVDF
- T: Diaphragm Material
  - W: PTFE-EPDM
  - C: CR
  - N: NBR
  - E: EPDM
  - V: FKM
  - T: PTFE
  - H: TPEE
  - S: TPO
- Connection Type
  - ☐: Rc
  - N: NPT



CF-X25V☐
1” PVDF Dampener

Applicable Pumps





Series TC-X200





Series TC-X250

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

CE LoopedC

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

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