



BSPT Clear PVC Mixer SERIES

DATASHEET

In-Stock Static Mixers with **Clear PVC Construction**

Overview

Koflo's Clear PVC series of static mixers are an efficient and cost-effective solution for inline fluid blending. Utilizing Koflo's patented Blade™ mixing elements in 6 or 12 element configurations, the Clear PVC series can tackle all light viscosity mixing applications in nominal sizes ranging from 1/2" to 2" diameter.

Clear PVC mixers offer a unique opportunity to view the mixing process and can double as a sight glass for systems where flow visibility is beneficial. Additionally, Koflo's proprietary edge-sealing technology adds increased structural rigidity and prevents process fluids from "slip-streaming" around the edges of the internal mixing elements.



Typical Applications

Clear PVC mixers are commonly used to blend fluids for the following applications:

- Municipal, Industrial, and In-Home Water treatment
- pH control (acid / caustic mixing)
- Disinfection (chlorination / ozonation)
- Polymer activation and dilution
- Coagulant and flocculant addition
- Industrial process fluid mixing (oils, lubricants, chemicals)

Mixer Selection

Clear PVC units are designed for blending waterlike and light viscosity fluids at moderate flow velocities in the turbulent/transitional flow regimes. Mixers provide the most efficient blend in the middle of their typical flow range (ranges provided in the chart below).

6 element configurations will provide a completely homogeneous blend at the mixer outlet within the typical flow range for waterlike fluids.

For mixing viscous additives with a low viscosity process flow, 12 element configurations will offer better mixing at the expense of higher pressure drop.

Typical flow ranges for each mixer are listed in the below table. These can be viewed as general guidelines, however, many processes can operate effectively outside of these ranges,

If your application includes viscous components and/or operates outside of the mixer's typical flow range, contact your local distributor or Koflo's sales team at sales@koflo.com or by phone at +1 847 516 3700.

TECHNICAL



END CONNECTIONS

Male BSPT, Gray PVC

PIPE HOUSING

Schedule 40 Clear PVC

MAXIMUM WORKING TEMPERATURE

60°C

FEATURES

- Transparent construction
- Edge-sealed mixing elements
- NSF/ANSI 61 and NSF/ANSI 372 Certified for use in potable water systems

CE / PED (2014/68/EU) COMPLIANCE

All products referenced herein are considered "piping" per Article 4(1)(c)(ii), second indent, of the PED and are manufactured under sound engineering practice as required for compliance in Article 4(3). The referenced products do not bear a CE marking, per the Directive.

IN-STOCK MODELS

MODEL NUMBER	NOMINAL SIZE	# OF ELEMENTS	LENGTH (mm)	WEIGHT (kg)	MAXIMUM WORKING PRESSURE* (Barg @ 21°C)	TYPICAL FLOW RANGE (m3/h)
1/2-40C-4-6-2B	DN15 (1/2")	6	178	0.06	20.6	0.2 - 1.1
1/2-40C-4-12-2B	DN15 (1/2")	12	305	0.09	20.6	0.1 - 1.1
3/4-40C-4-6-2B	DN20 (3/4")	6	229	0.10	16.5	0.4 - 1.9
3/4-40C-4-12-2B	DN20 (3/4")	12	381	0.16	16.5	0.2 - 1.9
1-40C-4-6-2B	DN25 (1")	6	279	0.18	15.1	0.6 - 3.1
1-40C-4-12-2B	DN25 (1")	12	457	0.28	15.1	0.3 - 3.1
1.25-40C-4-6-2B	DN32 (1.25")	6	356	0.35	12.4	1.1 - 5.3
1.25-40C-4-12-2B	DN32 (1.25")	12	635	0.52	12.4	0.5 - 5.3
1.5-40C-4-6-2B	DN40 (1.5")	6	381	0.42	11.7	1.4 - 7.2
1.5-40C-4-12-2B	DN40 (1.5")	12	711	0.72	11.7	0.7 - 7.2
2-40C-4-6-2B	DN50 (2")	6	483	0.71	9.6	2.4 - 11.9
2-40C-4-12-2B	DN50 (2")	12	889	1.22	9.6	1.2 - 11.9

*Note: Maximum allowable working pressure decreases with increased temperatures. Use the Temperature De-Rating chart to determine the correct maximum working pressure at your design conditions

WORKING PRESSURE TEMPERATURE DE-RATING

To calculate maximum working pressure at elevated temperatures, multiply the mixer's maximum working pressure by the appropriate correction factor, below.

TEMPERATURE (°C)	CORRECTION FACTOR
21	1.00
27	0.90
32	0.75
38	0.62
43	0.50
46	0.45
49	0.40
52	0.35
54	0.30
60	0.22

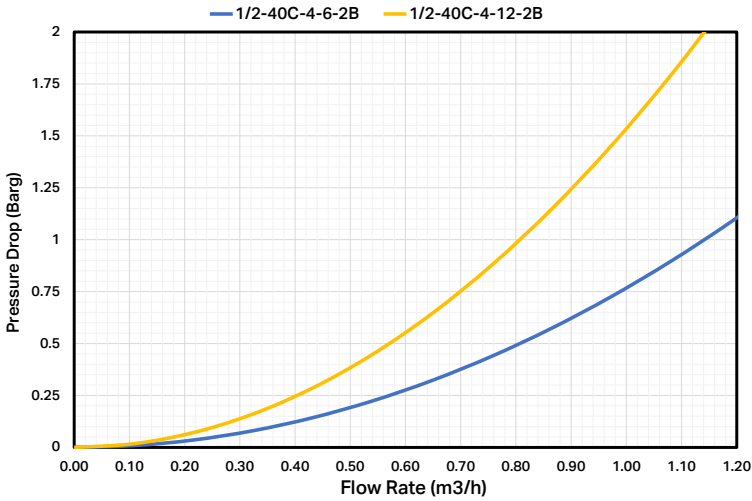


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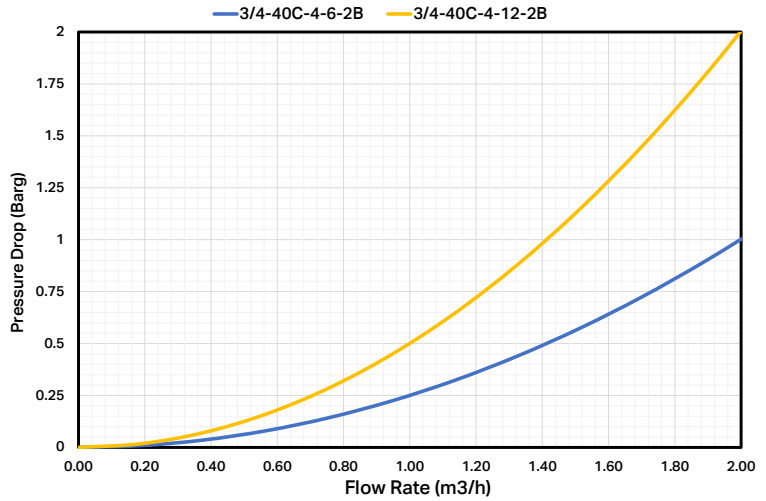
Pressure Drop Curves

All pressure drop curves assume water at 1 cP viscosity, 1 SG density. Pressure drop is not an indication of mixing performance. Consult Koflo or your local distributor for a recommendation on appropriate mixer sizing for your process

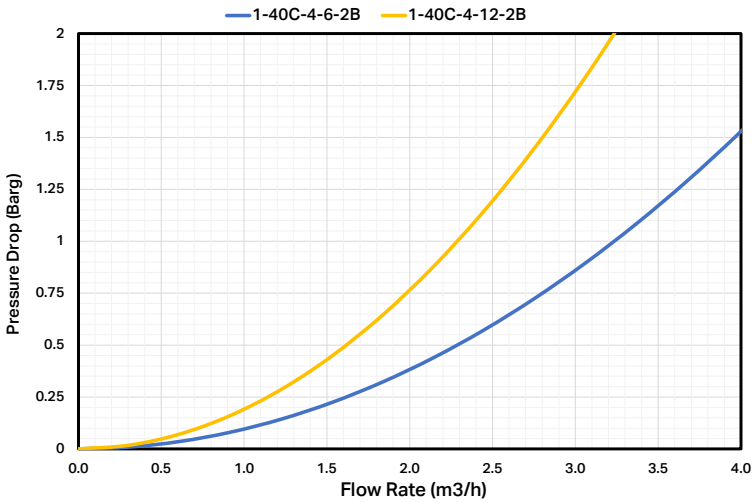
DN15 (1/2")



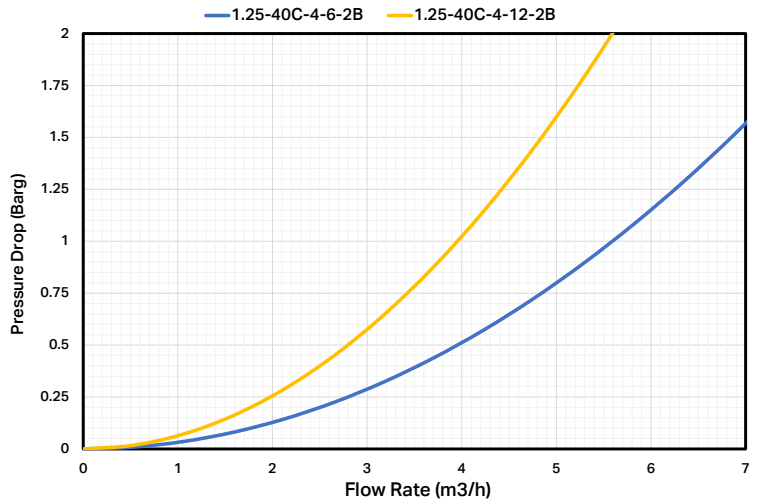
DN20 (3/4")



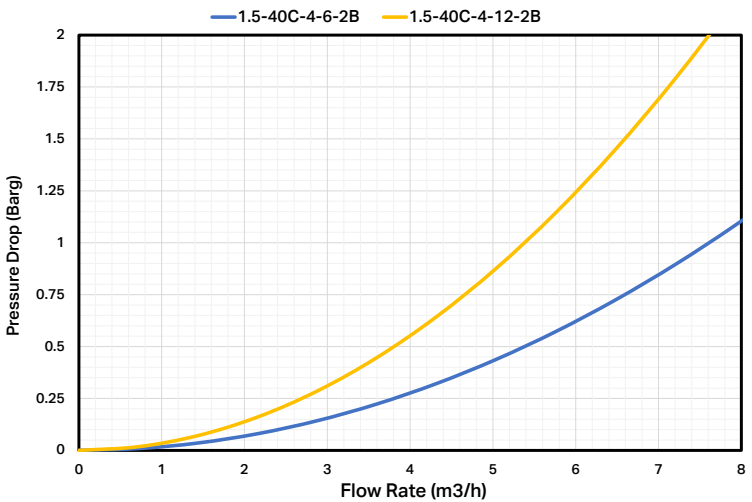
DN25 (1")



DN32 (1.25")



DN40 (1.5")



DN50 (2")

