



# BSPT Stainless Mixer SERIES

DATASHEET

In-Stock Static Mixers with **316/L Stainless Construction**

## Overview

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

Mixers feature a polished exterior and fixed, welded internal mixing elements that can withstand high velocity flows and elevated pressure requirements.



## Typical Applications

Stainless steel mixers are commonly used to blend fluids for the following applications:

- Municipal and industrial water treatment
- Industrial process fluid mixing (oils, lubricants, chemicals)
- Thermal homogeneity
- Process sampling
- pH control (acid / caustic mixing)
- Disinfection (ozonation)
- Polymer activation and dilution
- Coagulant and flocculant addition

## Mixer Selection

316/L stainless steel 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](mailto:sales@koflo.com) or by phone at +1 847 516 3700.

## TECHNICAL



### END CONNECTIONS

Male BSPT

### PIPE HOUSING

Schedule 40S 316/L Stainless Steel

### FEATURES

- Robust, stainless construction
- Welded internal 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 @ < 125°C) | TYPICAL FLOW RANGE (m3/h) |
|------------------|--------------|---------------|-------------|-------------|--|---------------------------|
| 1/2-40S-3-6-2B   | DN15 (1/2")  | 6             | 127         | 0.16        | 113  | 0.2 - 1.1                 |
| 1/2-40S-3-12-2B  | DN15 (1/2")  | 12            | 254         | 0.34        | 113  | 0.1 - 1.1                 |
| 3/4-40S-3-6-2B   | DN20 (3/4")  | 6             | 178         | 0.32        | 96   | 0.4 - 1.9                 |
| 3/4-40S-3-12-2B  | DN20 (3/4")  | 12            | 330         | 0.6         | 96   | 0.2 - 1.9                 |
| 1-40S-3-6-2B     | DN25 (1")    | 6             | 229         | 0.57        | 87   | 0.6 - 3.1                 |
| 1-40S-3-12-2B    | DN25 (1")    | 12            | 432         | 1.11        | 87   | 0.3 - 3.1                 |
| 1.25-40S-3-6-2B  | DN32 (1.25") | 6             | 305         | 1.27        | 75   | 1.1 - 5.3                 |
| 1.25-40S-3-12-2B | DN32 (1.25") | 12            | 559         | 2.59        | 75   | 0.5 - 5.3                 |
| 1.5-40S-3-6-2B   | DN40 (1.5")  | 6             | 330         | 1.45        | 72   | 1.4 - 7.2                 |
| 1.5-40S-3-12-2B  | DN40 (1.5")  | 12            | 660         | 2.77        | 72   | 0.7 - 7.2                 |
| 2-40S-3-6-2B     | DN50 (2")    | 6             | 432         | 2.52        | 63   | 2.4 - 11.9                |
| 2-40S-3-12-2B    | DN50 (2")    | 12            | 838         | 4.92        | 63   | 1.2 - 11.9                |

\*Note: Consult factory for elevated temperature pressure ratings

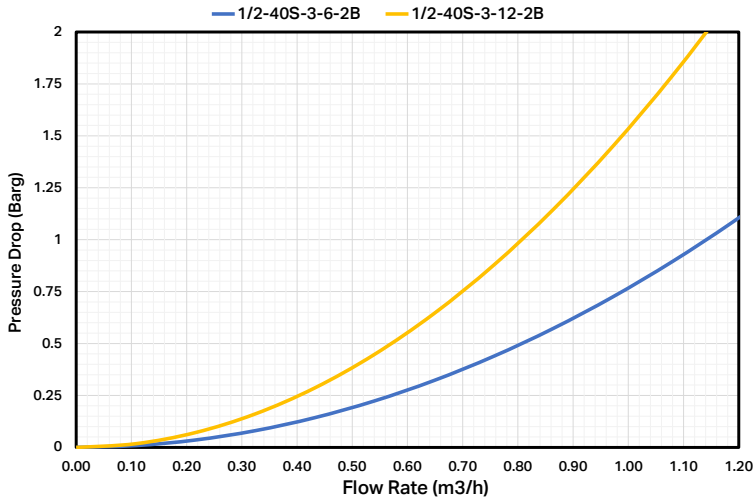


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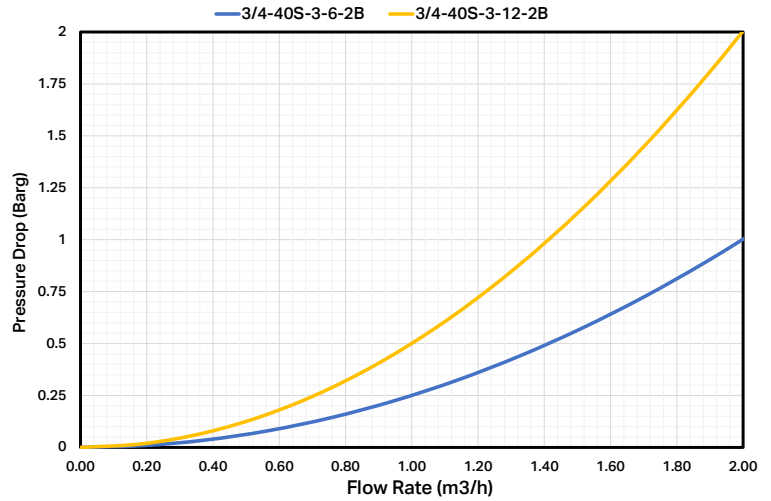
## Pressure Drop Curves

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

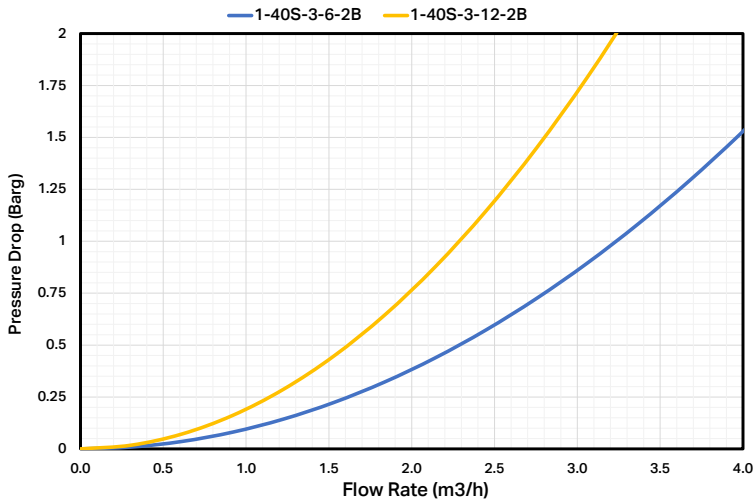
### DN15 (1/2")



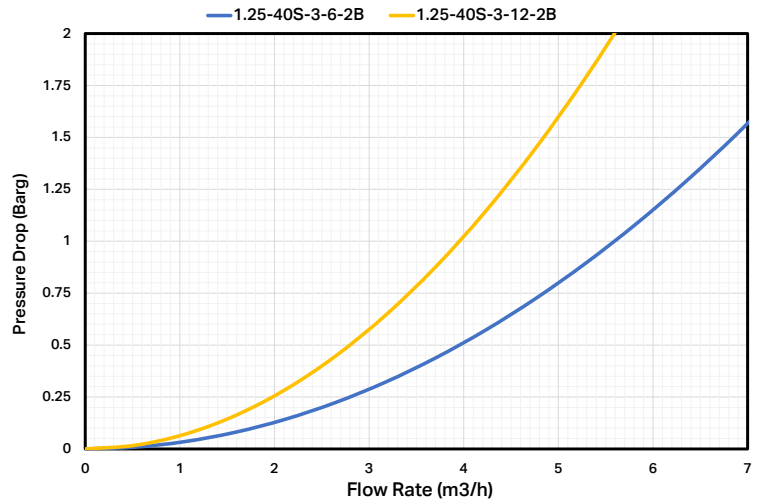
### DN20 (3/4")



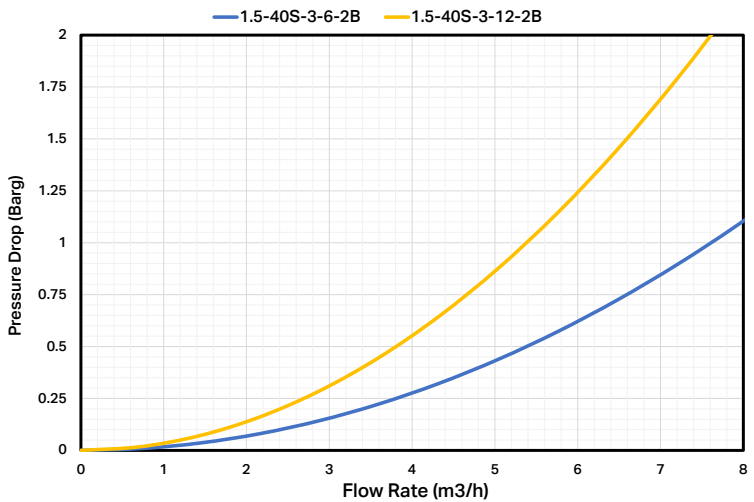
### DN25 (1")



### DN32 (1.25")



### DN40 (1.5")



### DN50 (2")

