PD100

Discharge pulsation dampener

Features and benefits

- Increases process uptime and performance by reducing pulsation in pump and process
- Decreases vibration in your system and eliminates pipe hammer to improve pump performance
- In-line, low maintenance set-up, suitable for any Bredel and APEX pump with hose size from 25 mm (1”) to 100 mm (4”)
- Eliminates up to 90% of the pump discharge pulsation between 2 bar (29 psi) and 16 bar (232 psi) pressure
- Certified to meet directive 2014/68/EU by LRQA

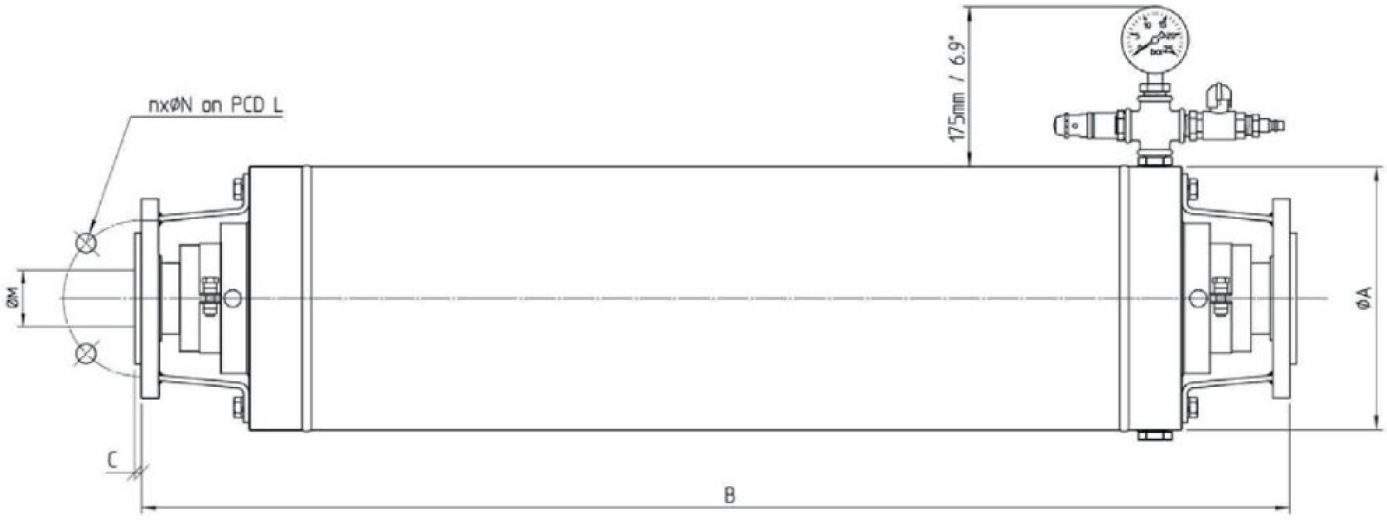
Technical specifications

	PD100
Max. operating pressure	16 bar (232.1 psi)
Storage temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Product temperature	-10 °C to 80 °C (14 °F to 176 °F)
Assembly weight	146 kg (321.9 lbs)

Materials of construction

	PD100
Hose material	CSM, EPDM, Natural rubber (NR), NBR
Housing assemblies	Carbon steel
O-ring	NBR
Flange materials	Galvanised steel, Stainless steel 316
Inserts	PP (polypropylene), PVC, PVDF, Stainless steel

PD100 dimensions



Dimensions in mm (for DIN flanges)							Dimensions in inches (for 150# ANSI flanges)							
A	B	C	C	n x N	L	M	A	B	C	C	n x N	L	M	
Dampener Type	Pump Type			SS	PVC PVDF PP			DIN flange size			SS			ANSI flange size
PD100	Bredel 80	324	1356	8	48	8 x 18	160	80	12.8	53.4	0.31	1.89	4 x 3/4	6	3
PD100	Bredel 280	324	1356	8	48	8 x 18	160	80	12.8	53.4	0.31	1.89	4 x 3/4	6	3
PD100	Bredel 100	324	1356	3	48	8 x 18	180	100	12.8	53.4	0.12	1.89	8x3/4	7 - 1/2	4
PD100	Bredel 2100	324	1356	3	48	8 x 18	180	100	12.8	53.4	0.12	1.89	8x3/4	7 - 1/2	4

Product codes

Replacement hose element			Part number
Hose Type	Material	Colour code	PD/100
NR	Natural rubber	Purple	28-P100020
NBR	Nitrile rubber	Yellow	28-P100040
EPDM	EPDM	Red	28-P100075
CSM	CSM	Blue	28-P100070

The material of the inner liner of the hose determines the hose type. Each hose type is marked by a unique colour code.

For ordering codes and information on pulsation dampeners and inserts please contact your Bredel representative.

Disclaimer: The information contained in this document is believed to be correct at the time of publication, but Watson-Marlow Bredel BV accepts no liability for any error it contains, and reserves the right to alter specifications without prior notice. All mentioned values in this document are values under controlled circumstances at our test bed. Actual flow rates achieved may vary because of changes in temperature, viscosity, inlet and discharge pressures and/or system configuration. APEX, DuCoNite, Bioprene and Bredel are registered trademarks.

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