

# In-line pulsation dampeners for Bredel 25-100, APEX 28 and APEX 35 pumps

## ACCESSORIES

### FEATURES AND BENEFITS

- Increases process uptime and performance by reducing pulsation in pump and process
- Reduces discharge pulsation, lessens vibrations 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 25mm (1") to 100mm (4")
- Eliminates up to 90% of the pump discharge pulsation between 2 bar (29psi) and 16 bar (232psi) pressure
- Certified to meet directive 2014/68/EU by Lloyds register

Consult your Bredel sales representative for advice on selecting an appropriate in-line pulsation dampener for your application.

### Bredel Hose Pumps



### DIMENSIONS



Dampener Type	Pump Type	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
PD40	APEX 28	168	800	4	20	4 x 14	85	25	6.6	31.5	0.16	0.79	4 x 5/8	3 - 1/8	1
PD40	APEX 35	168	800	4	20	4 x 18	100	32	6.6	31.5	0.10	0.79	4 x 5/8	3 - 7/8	1 - 1/2
PD40	Bredel 25	168	800	4	20	4 x 14	85	25	6.6	31.5	0.16	0.79	4 x 5/8	3 - 1/8	1
PD40	Bredel 32	168	800	4	20	4 x 18	100	32	6.6	31.5	0.16	0.79	4 x 5/8	3 - 1/2	1 - 1/4
PD40	Bredel 40	168	800	2.5	20	4 x 18	110	40	6.6	31.5	0.10	0.79	4 x 5/8	3 - 7/8	1 - 1/2
PD65	Bredel 50	245	1056	6	20	4 x 18	125	50	9.6	41.6	0.24	0.79	4 x 3/4	4 - 3/4	2
PD65	Bredel 65	245	1058	3	20	4 x 18	145	65	9.6	41.7	0.12	0.79	4 x 3/4	5 - 1/2	2 - 1/2
PD65	Bredel 265	245	1058	3	20	4 x 18	145	65	9.6	41.7	0.12	0.79	4 x 3/4	5 - 1/2	2 - 1/2
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	8 x 3/4	7 - 1/2	4
PD100	Bredel 2100	324	1356	3	48	8 x 18	180	100	12.8	53.4	0.12	1.89	8 x 3/4	7 - 1/2	4

## TECHNICAL SPECIFICATIONS

Pulsation Dampener	PD/40	PD/65	PD/100
Estimated assembly weight	34.4kg, 75.8lbs	79.9kg, 176.1lbs	146kg, 321.9lbs
Maximum allowable pressure in vessel	1600 kPa (16 bar), 232.1psi		
Maximum working pressure discharge line	1600 kPa (16 bar), 232.1psi		
Ambient temperature of the pulsation dampener	-20C to 45C, -4.0F to 113.0F		
Product temperature for pulsation dampener	-10C to 80C, 14.0F to 176.0F		
Storage temperature of pulsation dampener	-40C to 70C, -40.0F to 158.0F		
Available hose materials	NR, NBR, EPDM, CSM		

Flanges and inserts	PD/40	PD/65	PD/100
Available inserts for flanges	SS, PVC, PP, PVDF	Steel, SS, PVC, PP, PVDF	Steel, SS, PVC, PP, PVDF
Available flanges	DIN, ANSI, JIS standard in galvanized steel, or AISI 316 SS option		

## MATERIALS OF CONSTRUCTION

	PD/40, PD/65, PD/100
Housing	Carbon steel, coated according to ISO 12944, class C4
O Rings	NBR
Flange	DIN, ANSI, JIS: galvanized steel, stainless steel 316
Inserts	Steel, SS, PP, PVC or PVDF

\* Please contact your Bredel representative for pulsation dampeners in Stainless Steel 316 configuration for increased corrosion resistance.

## ORDERING CODES AND SELECTION OPTIONS

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

Replacement hose element			Part number		
Hose Type	Material	Colour code	PD/40	PD/65	PD/100
NR	Natural rubber	Purple	28-P040020	28-P065020	28-P100020
NBR	Nitrile rubber	Yellow	28-P040040	28-P065040	28-P100040
EPDM	EPDM	Red	28-P040075	28-P065075	28-P100075
CSM	CSM	Blue	28-P040070	28-P065070	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.

The pulsation dampener hose liner material should be chemically resistant to the product to be pumped.

A matching hose should be selected relative to your application.

- A** Outer extruded layer made of natural rubber
- B** Four nylon reinforcement layers
- C** Inner extruded liner

