

Flowrox™ Expulse™

Pulsation dampener

Flowrox Expulse is a flexible inline pulsation dampener, which quiets noise while reduces pressure fluctuation and uneven flows. The design is based on a double hose structure with an expansive inner hose, reinforced outer hose and compressed air between the layers.

Up to 90% of pulsations are being absorbed by using Flowrox Expulse. It smooths the process medium flow, which significantly reduces the pulsation effect. It also saves energy up to 10% by temporarily storing it to the flexible inner hose and filler gas.

Flowrox Expulse provides a flexible connection to the pump and compensates for possible misalignments of the pipeline. The pulsation dampener can also be easily removed to allow simple access for pump maintenance. Flowrox Expulse is the perfect solution for any pulsating positive displacement pump. It can reduce hammering of the pipeline and pump to enable increased pump bearing and gearbox lifetime.

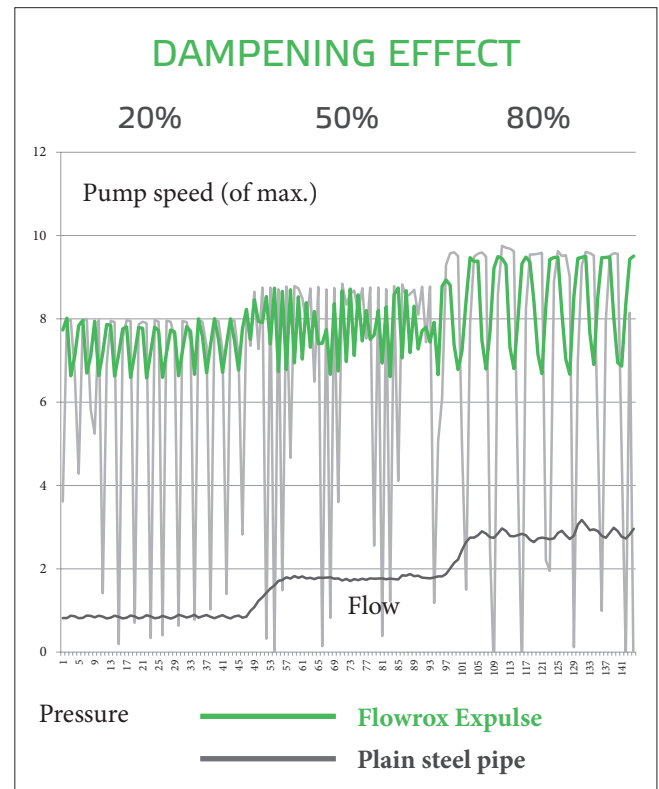


Benefits

- Reduces pressure fluctuations & reduces noise
- Saves up to 10% of energy by temporarily storing it to the flexible inner hose and filler gas
- Flexible design tolerates misalignments in the pipeline
- Reduces hammering of the pipeline and pump

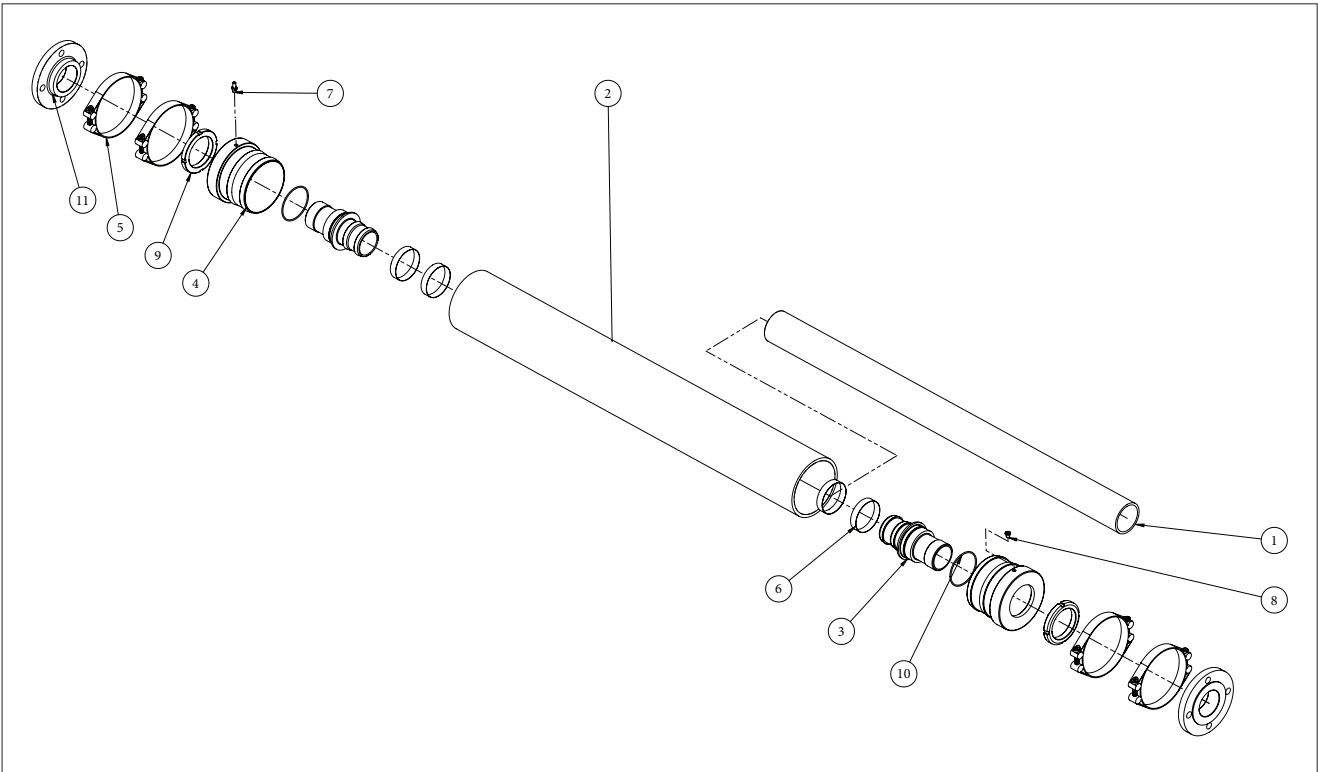
Features

- Absorbs up to 90% of pulsations
- Non-clogging & self-cleaning dampener
- Inner hose and hose connectors are the only parts in contact with medium
- Inline & full-bore dampener structure
- Combined pulsation dampener and a connection hose



Technical Data	DN32	DN40	DN50	DN65	DN80	DN100
Weight	12 kg / 27 lbs	18 kg / 40 lbs	22 kg / 49 lbs	28 kg / 62 lbs	54 kg / 119 lbs	77 kg / 170 lbs
Maximum pressure	10 bar / 150 psi					
Maximum filling air pressure	6 bar / 90 psi					
Maximum fluid temperature	95° C / 130° F					

Exploded view of Flowrox Expulse, pulsation dampener



ITEM NO.	DESCRIPTION	QTY.
1	DAMPING HOSE	1
2	COVER HOSE	1
3	PULSATION HOSE CONNECTOR	2
4	PULSATION HOSE FLANGE	2
5	HOSE CLAMP	4
6	PREFORMED CLAMP	4
7	TANK VALVE	1
8	PLUG	1
9	LOCK NUT	2
10	O-RING	2
11	THREADED FLANGE	2

Note: Item 5 - Hose clamp quantity 6 pcs in sizes DN80 & 100

Technical specifications

Sizes:

DN 32, 40, 50, 65, 80, 100

Connections:

Connection flange drillings: DIN PN10 or ANSI 150.

Other drillings by request.

Temperature range:

Maximum fluid temperature: 95°C / 203°F

Minimum & maximum ambient operating temperature: 0°C to 46°C / 32 °F to 115 °F

Construction materials:

Outer hose: EPDM

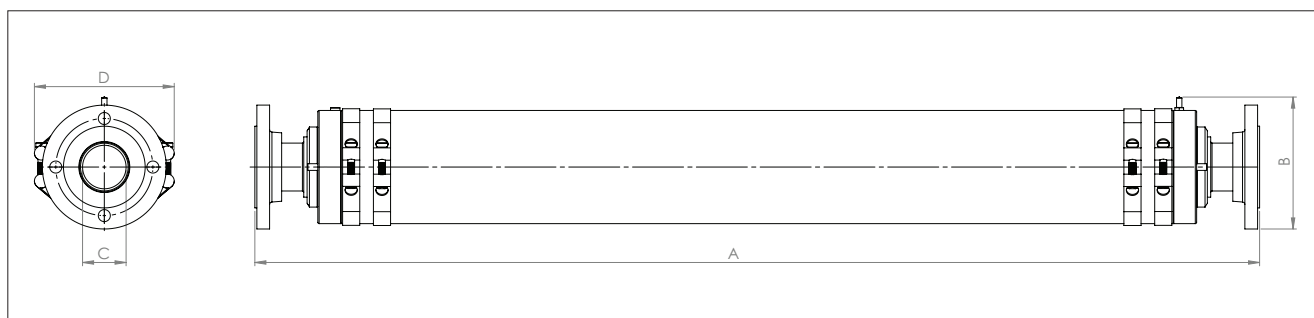
Inner hose: NR

Pulsation hose connectors: Stainless steel

Pulsation hose flanges: Black-nitrated steel

Connection flanges: Stainless or zinc-plated steel

Dimensions



EXPULSE SIZE, DN	A	B	C	D	FLANGE CONNECTION
32	1100	*140	32	*140	DIN PN10, ANSI 150
40	1100	155	40	150	DIN PN10, ANSI 150
50	1400	*165	50	*165	DIN PN10, ANSI 150
65	1500	209	65	197	DIN PN10, ANSI 150
80	1500	248	80	257	DIN PN10, ANSI 150
100	2000	248	100	257	DIN PN10, ANSI 150

Other drillings by request

*Flange diameter. Tank valve & clamp heights below flange diameter

Pulsation dampener selection guide

1	2	3	4	5	6
EXPULSE	DN65	10	2	2	NR

1. sign	TYPE
EXPULSE	PULSATION DAMPENER

2. sign	SIZE
DN32	1- 1/4"
DN40	1- 1/2"
DN50	2"
DN65	2- 1/2"
DN80	3"
DN100	4"

3. sign	PRESSURE RATING
10	10 bar

4. sign	CONNECTION
2	DIN PN10 flanges
6	ANSI 150 flanges

5. sign	CONNECTION MATERIAL
0	FeZn
2	EN 1.4404 (AISI 316L)

6. sign	DAMPING HOSE MATERIAL
NR	Natural rubber

Subject to change without prior notice.

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