

DT series - Active pulsation dampener

Automatically setting the correct pressure to minimise the pulsations



The active pulsation dampener is the most efficient way to remove pressure variations on the discharge of the pump.

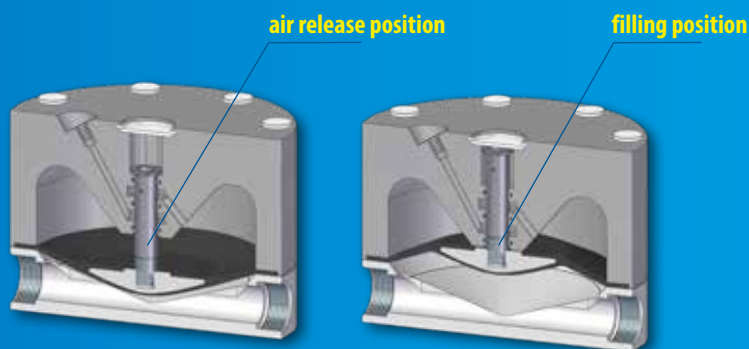
The pulsation dampener works actively with compressed air and a diaphragm, automatically adjusting to the current pressure to minimise the pulsations.

Explosion proof models are available

Certified according to directive 2014/34/EC (ATEX), group II, cat 2, for use in EX-zone 1.

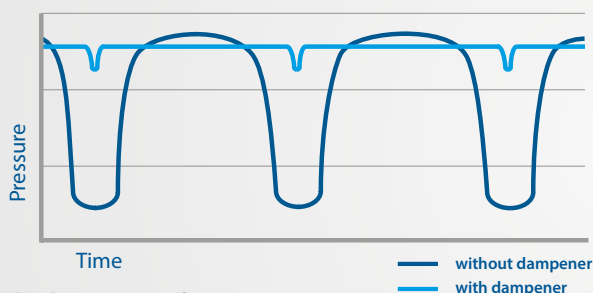


Working principle



When the pressure in the piping system decreases, due to the pulsating nature of the pump operation, the pulsation dampener eliminates pressure peak to the discharge between the pump strokes, therefore supplying a steady flow of pumped medium. This pumping action created by the dampener, decreases the pressure variations and pulsations.

Features

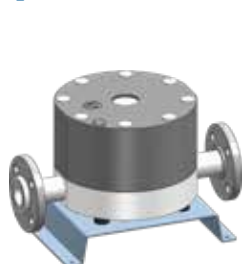


The dampening effect

The pressure variation in a discharge line with and without a pulsation dampener.

- ✓ Minimized vibrations and water hammer effects
- ✓ Protection of all kinds of instruments in your pipe system
- ✓ Optimized pump performance and reduced maintenance costs
- ✓ Minimum air consumption
- ✓ Reduced pressure peaks

Options & accessories



Pulsation dampener with stand



Pulsation dampener with pump



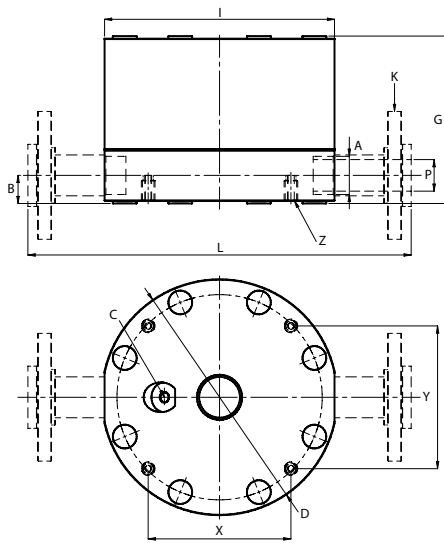
Pulsation dampener with guardian



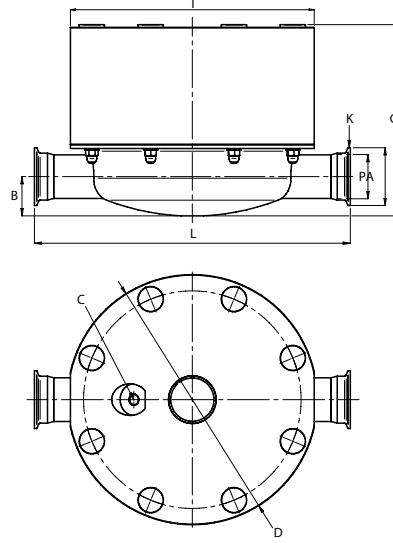
DTK – dampener designed to be built on pump

Dimensions

PE , PTFE & aluminium dampeners



Stainless steel and sanitary dampener



Dimensions in mm (where other is not indicated)

Dimensions in inch (where other is not indicated)

Dimension		Dampener size																		
		9/20	25	30	50	70	80	100	120	125	200	220	225	400	420	425	800	820 A	820 S	825
		G 3/8"	G 1/2"	G 3/8"	G 1/2"	G 3/4"		G 1"			G 1 1/2"			G 2"			-	G 3"	-	-
A	BSP																			
	DIN Flange	95	-	95	95	105	-	115	115	-	150	150	-	165	165	-	202	-	202	-
	ANSI Flange	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SMS3017/ISO2037	-	-	50,5	-	-	50,5	-	-	50,5	-	-	64	-	-	91	-	-	-	-
	DIN 118513	-	-	Rd 44x1/6"	-	-	Rd 52 x 1/6"	-	-	Rd 65 x 1/6"	-	-	Rd 78 x 1/6"	-	-	Rd 95 x 1/6"	-	-	-	Rd 110 x 1/4"
B		15/33 ¹	15	10,6	17/32,4 ¹	16,5	16,5	25,5/45 ¹	25	16,5	33/50 ¹	41	41	41/61	41	46	92	92	19,3	19,3
		0,59/1,3 ¹	0,59	0,42	0,67/ 1,27 ¹	0,65	0,65	1/ 1,77 ¹	0,98	0,65	1,29/1,97 ¹	1,61	1,61	1,61/2,40 ¹	1,61	1,81	3,62	3,62	0,76	0,76
	C	G 1/4"			G 1/4"			G 1/4"			G 1/4"			G 1/4"			G 1/4"			
	D	110				158			208		277			360				470		
		4,33				6,22			8,19		10,91			14,17				18,50		
G		85 / 103 ¹	85	79	109/132 ¹	117/109 ²	116,5	148/161,5 ¹	135/144,5 ²	135	200/217,5 ¹	213/200,5 ²	209	244/261 ¹	256/243,5 ²	255	394	392	330	330
		3,35/ 4,06 ¹	3,35	3,11	4,29/5,20 ¹	4,61/4,29 ²	4,59	5,83/6,36 ¹	5,31/5,69 ²	5,31	7,87/8,56 ¹	8,39/7,89 ²	8,23	9,61/10,28 ¹	10,08/9,59 ²	10,04	15,51	15,43	12,99	12,99
	I	107				155			203		270			352			470	450		470
		4,21				6,10			7,99		10,63			13,86			18,50	17,72		18,50
K	BSP	G 3/8"	G 1/2"	-	G 1/2"	G 3/4"	-	G 1"	G 1"	-	G 1 1/2"	G 1 1/2"	-	G 2"	G 2"	-	-	G 3"	-	-
	DIN Flange ⁴	DN15	-	DN 15	DN15	DN 20	-	DN25	DN 25	-	DN40	DN 40	-	DN50	DN 50	-	DN80	-	DN80	-
	ANSI Flange ⁴	1/2"	-	1/2"	1/2"	1/2"	-	1"	1"	-	1 1/2"	1 1/2"	-	2"	2"	-	3"	-	3"	-
	SMS3017/ISO2037 ⁵	-	-	DN 25	-	-	DN 25	-	-	DN 38	-	-	DN 50	-	-	DN 70	-	-	-	-
	DIN 118513 ⁵	-	-	DN25	-	-	DN 25	-	-	DN 40	-	-	DN 50	-	-	DN 65	-	-	-	DN 80
L	DIN & ANSI Flange	235	-		285			375			450			550			700	-	700	-
		9,25	-		11,22	-		14,76	-		17,72	-		21,65	-		27,56	-	27,56	-
	BSP	107	-		155	-		203	-		270	-		352	-		-	450	-	-
		4,21	-		6,10	-		7,99	-		10,63	-		13,86	-		-	17,72	-	-
	Other Connections ³	-	180	-		210	-		300	-		350	-		450	-		-	-	600
P		-	7,09	-		8,27	-		11,81	-		13,78	-		17,72	-		-	-	23,62
	DIN Flange ⁴	14	-	17,3	14	22,9	-	26	29,7	-	45,4	44,3	-	51,4	56,3	-	80	-	80	-
		0,55	-	0,68	0,55	0,90	-	1,02	1,17	-	1,79	1,74	-	2,02	2,22	-	3,15	-	3,15	-
	ANSI Flange ⁴	14	-	17,3	14	22,7	-	26	30,1	-	45,4	42,8	-	51,4	54,8	-	80	-	80	-
		0,55	-	0,68	0,55	0,89	-	1,02	1,19	-	1,79	1,69	-	2,02	2,16	-	3,15	-	3,15	-
SMS3017/ISO2037 ⁵		-	-	22,6	-	-	22,6	-	-	35,6	-	-	49	-	-	66,8	-	-	-	-
		-	-	0,89	-	-	0,89	-	-	1,40	-	-	1,93	-	-	2,63	-	-	-	-
	DIN 118513 ⁵	-	-	20	-	-	26	-	-	38	-	-	50	-	-	66	-	-	-	81
		-	-	0,79	-	-	1,02	-	-	1,50	-	-	1,97	-	-	2,60	-	-	-	3,19
X		36	-		90,3	-		113,8	-		167,6	-		226,3	-			297	-	-
		1,42	-		3,56	-		4,48	-		6,60	-		8,91	-			11,69	-	-
	Y	86,8	-		100,3	-		135,6	-		167,6	-		226,3	-			297	-	-
Z		3,42	-		3,95	-		5,34	-		6,60	-		8,91	-			11,69	-	-
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1 = PE / PTFE
2 = SS / ALU

3 = SMS3017/ISO2037, DIN 11851, SMS1145, BS 4825 (RJT)
4 = Only plastic and metal pumps

5 = Only sanitary pumps
* = Dimensions for other connections in IOM Manual