



Pulsation Dampers Stainless Steel

0 to 690 bar range

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



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Features and Dimensions

Design Features and Benefits

1 Shell

CE certified in accordance with the PED (97/23/EC) where applicable. Manufactured from high grade 316 Stainless Steel, other materials available.

- Nominal capacities 0.1 litre to 5 litres.
- Working pressures of up to 690 bar, higher pressures available on request.
- Wide range of separator materials available
- Designed to PD5500 or ASME VIII Div 1.
- U Stamp is available as an option.

2 Label

Vessel information is stamped directly on shell. Stainless Steel nameplates are available at an extra cost.

3 Material Certification

Material certifications are available to EN10204 3.1 NACE MR0175 compliance is available on request.

4 Finish

Not painted as standard. Special paints available.

5 Fluid Port

A large variation of threaded or flanged options are available. For connection options please see page 3.

6 Safety

All gas-loaded pulsation dampers are pressurised vessels and it is recommended that safety consideration be given to the application in which they are used. A relief valve should always be fitted to the hydraulic system with the option of a burst disc to protect the pulsation dampers. See Installation and Servicing data sheet for information regarding installation of pulsation dampers.

7 Pressure Testing

A hydro static pressure test is carried out on all our pulsation dampers shells during the manufacturing process. We can carry out additional pressure testing witnessed by a specified Inspection Authority and/or customer as an optional extra if required.

We can also carry out a hydro-pneumatic pressure test on the complete assembly as an optional extra if required. Again this can be witnessed by a specified inspection authority and/or customer.

8 Accessories

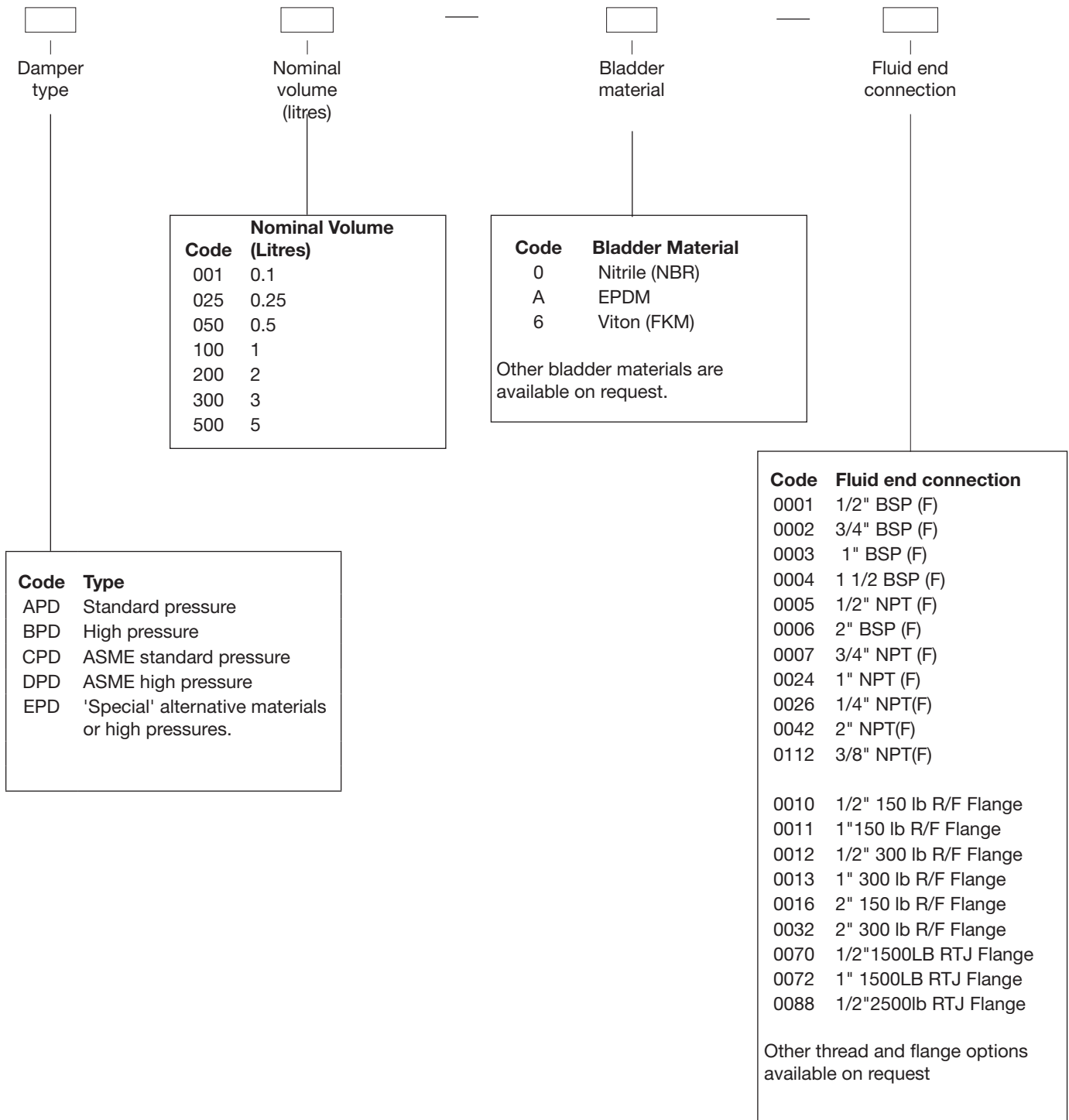
A complete range of damper charging equipment is available from Parker Olaer.

9 Spare Parts

Available on request.



How to Order Pulsation Dampers



Example: APD001-0-0001

Damper Type	Standard Pressure (see page 4 for design pressure)
Nominal Volume (litres)	0.1 litre
Bladder Material	Nitrile
Fluid End Connection	1/2" BSP (F)

Features and Dimensions

Capacities and Dimensions

APD Range (PD5500)

	Volume (litres)						
	0.1	0.25	0.5	1	2	3	5
Height (mm)	200	220	242	270	405	425	437
Outside Diameter (mm)	60	76	94	127	127	153	170
Weight (kg)	2.7	4.5	7.4	15	20	31	33
Design Pressure (bar)	350	300	250	180	180	250	120

BPD Range (PD5500)

	Volume (litres)						
	0.1	0.25	0.5	1	2	3	5
Height (mm)	215	236	272	290	426	448	472
Outside Diameter (mm)	76	102	127	146	146	170	190
Weight (kg)	5.4	12	21	27	37	52	55
Design Pressure (bar)	690	690	690	450	450	430	300

CPD Range (ASME VIII Div 1)*

	Volume (litres)						
	0.1	0.25	0.5	1	2	3	5
Height (mm)	200	220	242	270	405	425	437
Outside Diameter (mm)	60	76	90	127	127	153	170
Weight (kg)	2.7	4.5	6	15	20	31	33
Design Pressure (bar)	300	250	170	140	140	120	95

DPD Range (ASME VIII Div 1)*

	Volume (litres)						
	0.1	0.25	0.5	1	2	3	5
Height (mm)	215	236	272	290	426	448	472
Outside Diameter (mm)	76	102	127	146	146	170	190
Weight (kg)	5.4	12	21	27	37	52	55
Design Pressure (bar)	460	420	400	350	350	300	207



Note: Dimensions are based on current stock and are subject to change without prior notice.

- *'U' Stamp options are also available at extra cost. Request price if required.
- APD/CPD models have brass gas valves
- BPD/DPD models have stainless steel gas valves

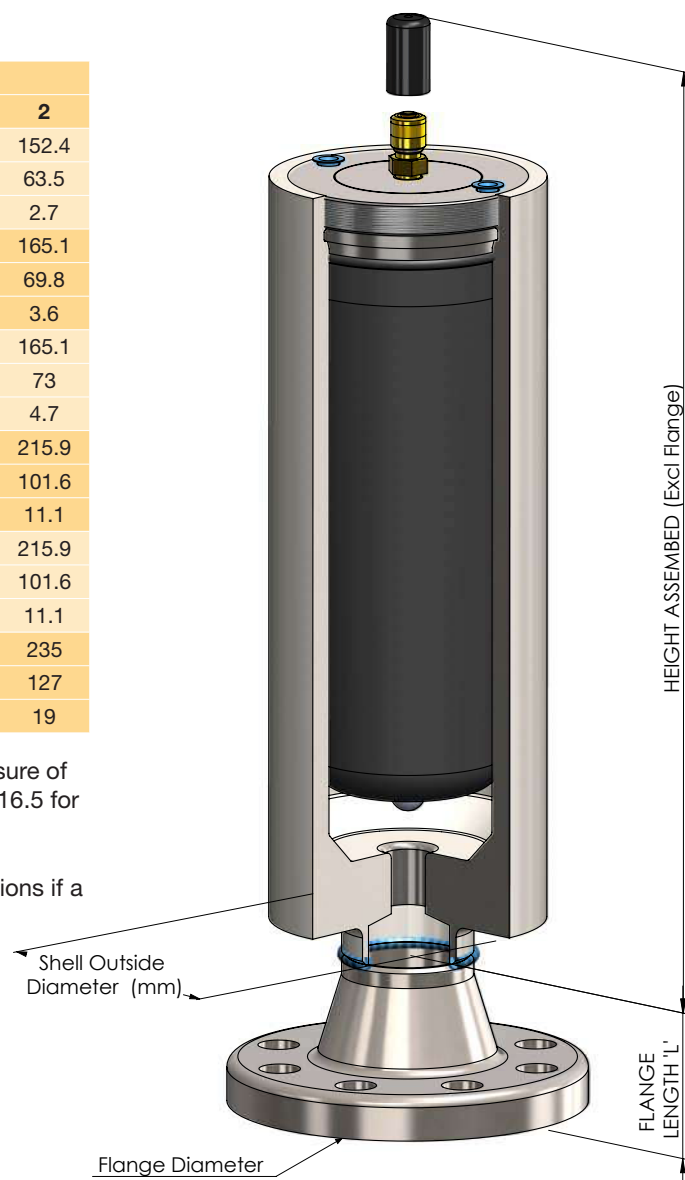
Features and Dimensions

Flanged Fluid End Options

Dimensions (mm)		Nominal Flange Sizes					
		½"	¾"	1"	1 ¼"	1 ½"	2"
150lb	Diameter	88.9	98.4	107.9	117.5	127	152.4
	Length "L"	47.6	52.4	55.6	57.1	61.9	63.5
	Weight (kg)	0.5	0.7	1.1	1.5	1.8	2.7
300lb	Diameter	95.2	117.5	123.8	133.4	155.6	165.1
	Length "L"	52.4	57.1	61.9	65.1	68.3	69.8
	Weight (kg)	0.8	1.3	1.7	2.2	3.2	3.6
600lb	Diameter	95.2	117.5	123.8	133.4	155.6	165.1
	Length "L"	52.4	57.1	61.9	66.7	69.8	73
	Weight (kg)	0.9	1.5	1.9	2.6	3.3	4.7
900lb	Diameter	120.6	130.2	149.2	158.7	177.8	215.9
	Length "L"	60.3	69.8	73	73	82.5	101.6
	Weight (kg)	1.9	2.6	3.8	4.4	6.1	11.1
1500lb	Diameter	120.6	130.2	149.2	158.7	177.8	215.9
	Length "L"	60.3	69.8	73	73	82.5	101.6
	Weight (kg)	1.9	2.6	3.8	4.4	6.1	11.1
2500lb	Diameter	133.3	139.7	158.8	184.2	203.2	235
	Length "L"	73	79	89	95	111	127
	Weight (kg)	3.6	4.1	5.9	9	13	19

Note: In most cases the fitting of a flange will de-rate the design pressure of the damper if in any doubt please refer to flange specification ANSI B16.5 for the maximum working pressures.

These dimensions and weights are to be added to the damper dimensions if a flange is required.



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