

# DELLMECO®

AODD DIAPHRAGM PUMPS

## Air Operated Double Diaphragm Pumps

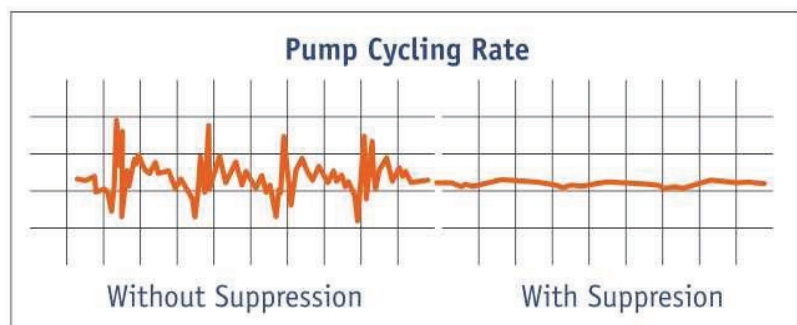


## PULSATION DAMPERS



An air cushion established by liquid pressure pushing the diaphragm upward. This allows air to enter the chamber. The balancing air cushion keeps the diaphragm center at mid stroke. During operation, the diaphragm flexes within the mid-range position, absorbing and equalizing discharge surge.

If pressure changes in the system, the air cushion pressure compensates automatical increasing or decreasing. If liquid pressure is released, air in the suppressor chamber exhausts into the atmosphere. Property sized and installed, dampers provide virtually surge-free discharge flow.



- Simple installation
- Virtually surge-free flows
- Less vibration and noise
- Steadier pressures
- Automatically self-charging and self-venting
- Variety of sizes and materials



### Example of the damper type code:

DM	15	P	E	P	
					Material of damper head: P - PE R - PE conductive
					Diaphragm material: E - EPDM T - TFM/PTFE N - NBR
					Material of damper housing: P - PE R - PE conductive A - Aluminium S - AISI 316 Industrial H - AISI 316L Hygienic T - PTFE Z - PTFE conductive
					Size, nominal connection size: 08: 3/8"; 10, 15: 1/2", 20: 3/4", 25: 1", 40: 1 1/2", 50: 2", 65: 2 1/2", 80: 3"
DELLMECO pulsation damper					

Air supply connection:	DM 08/10: R 1/8" DM 15/20/25: R 1/8" DM 40/50/65: R 1/4" DM 80: R 1/2"
Max. operating pressure:	8 bar
Max. operating temperature:	PE damper housing 70 °C ; PTFE damper housing 120 °C; Metal damper housing 120 °C

### Plastic dampers

For inflammable liquids as well as for applications in explosion protected areas, only dampers made of conductive polymer materials (code Z resp. R) may be used. It is not necessary to ground the damper separately, as the damper is connected conductively to the pump, which is conductive and has to be grounded itself.

In general, pump and damper are dispatched completely mounted. Still, they can be packed in separate boxes, for client wish. If so, the damper has to be screwed into the thread at the top of discharge port carefully, but only until the damper is in contact with the pump. Exceeded tightening may damage the thread. Besides, a correct positioning of the O-ring within the groove has to be ensured.

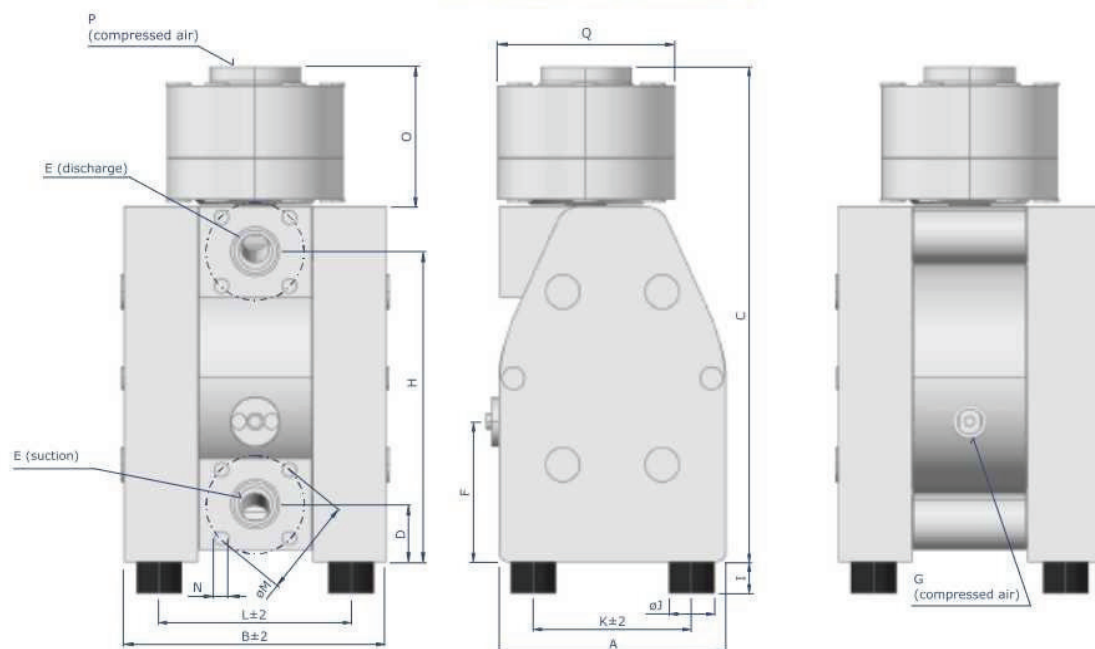
### Metal dampers

For inflammable liquids as well as for applications in explosion protected areas, only dampers made of PE conductive (code R) may be used. It is necessary to ground the damper separately, as the damper is not connected to the pump, which is conductive and has to be grounded itself. In general, pump and damper are dispatched separately.

## PLASTIC DAMPERS INTEGRATED WITH PUMPS



### DIMENSIONAL DRAWING

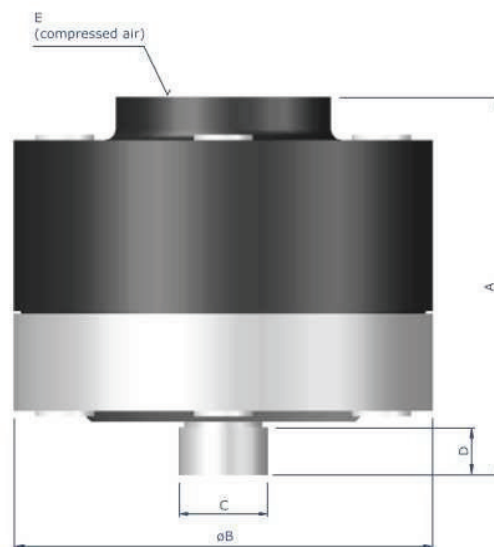


DIMENSIONS	A	B	C	D	E	F	G	H	I	ØJ	K	L	M	N	O	P	Q
DM 08/10	70	111	193	15	G 1/4"	58	R 1/8"	107	10	15	50	86	-	-	74	R 1/8"	73
DM 10/25	105	128	238	18	G 3/8"	84	R 1/8"	150	10	15	75	93	-	-	81	R 1/8"	104
DM 15/55	153	177	325	40	G 1/2"	87	R 1/4"	202	18	30	112	136	65	M12	81	R 1/8"	104
DM 25/125	200	232	435	50	G 1"	123	R 1/4"	272	28	40	140	170	85	M12	119	R 1/8"	156
DM 40/315	270	312	581	57	G 1 1/2"	109	R 1/2"	373	30	60	190	227	110	M16	151	R 1/4"	204
DM 50/565	350	385	726	52	G 2"	158	R 1/2"	478	30	60	270	282	125	M16	183	R 1/4"	273
DM 80/800	480	580	800	100	G 3"	388	R 3/4"	690	40	75	395	495	160	M16	261	R 1/2"	360



## METAL

Material	Aluminium					
Type	DM 15	DM 20	DM 25	DM 40	DM 50	DM 80
A	99	99	139	170	215	282
ØB	108	108	156	204	273	360
C	G 1/2"	G 3/4"	G 1"	G 1 1/2"	G 2"	G 3"
D	12	15	20	19	32	30
E	R 1/8"	R 1/8"	R 1/8"	R 1/4"	R 1/4"	R 1/2"



Material	AISI 316L (for Industrial series)			
Type	DM 20	DM 25	DM 40	DM 50
A	141	141	171	230
ØB	150	150	204	273
C	G 3/4"	G 1"	G 1 1/2"	G 2"
D	18	18	20	32
E	R 1/8"	R 1/8"	R 1/4"	R 1/4"

## HYGIENIC AISI 316L - POLISHED

AISI 316L					
Type	DM 15	DM 25	DM 40	DM 50	DM 65
A	104	149	148	178	220
ØB	104	150	156	204	273
C	80	123	123	150	198
D	TC	1/2"	1"	1 1/2"	2"
	DIN	15	25	40	50
	SMS	-	25.00	38.00	51.00
E	R 1/8"	R 1/8"	R 1/8"	R 1/4"	R 1/4"

