

DIABOLO BUFFERS TYPE D



Rigid buffers used as end stops or to limit the stroke of moving parts give rise to high impact stresses to structures often causing visible deterioration. This is normally accompanied by unacceptably high noise levels to the human ear, particularly when these impacts are repeated periodically. Rubber buffers eliminate these drawbacks considerably, as they dampen sound and absorb energy. The simple buffer has a flat surface of rubber and therefore responds immediately to impact, without over-extending the stroke of the moving part. The progressive buffer has a conical form and therefore makes contact on a progressive basis, increased deflection with increased load. This action is much more gradual and is particularly good for a considerable absorption of energy, without causing instant stress.

TECHNICAL CHARACTERISTICS

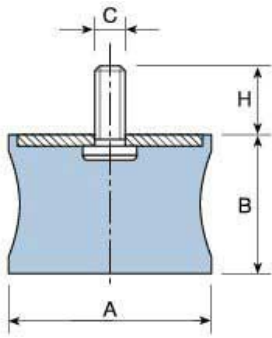
The elastic buffers are made with a compound of rubber which permits major deformations with notable absorptions of energy. They can be made with high-damping rubber to order. The absorption of energy is performed thus, irreversibly and opposes the rebound phenomenon.

APPLICATIONS

As buffers: In any case for limiting a flexible element. • End of stroke of spring or damper. • End of stroke of cranes and hoists. • Setting of fragile material in packings.



DRAWINGS



DIMENSIONS

Type	A (mm)	B (mm)	C (mm)	H (mm)	Weight (kg)	Static Load max. daN	Maximum Total Load	Dynamic Deflection mm	Static Deflection mm	Code
F.3	30	23	M-8	20	0,032	40	900	9	5	114001
F.7	44	42	M-8	20	0,07	50	1000	10	6	114002
F.1	60	44	M-8	20	0,116	40	1000	10	4	114003
F.2	60	44	M-8	20	0,127	75	2000	12	5,5	114004
F.4	60	60	M-10	25	0,213	150	3500	15	8	114005
F.8	60	31	M-10	25	0,135	100	2750	14	7	114006
F.5	80	65	M-14	35	0,508	300	8000	16	9,5	114007
F.6	95	70	M-16	45	0,724	400	10000	18	9,5	114008

OPERATION AND ASSEMBLY



The elastic buffers can be used in these two possibilities:

- As ActuaI buffers: The impact takes place as an end of stroke, taking into account the maximum deflection the stop may give.
- As elastic mounts. When installed as elastic mounts, the buffers may be screwed to the base of the machine so that its flat surface rests directly on the floor or ground.

ADVANTAGES



- Easy to install in all cases.
- Great efficacy when used as mount or as buffer.
- Possibility of moving the machines, which are not secured to the floor or ground, or of moving the buffers to different points where ends of stroke may be made.