

Pulsation Damper Size Selection Tables for Low Pressure Dosing Pumps P26



Master license from W. Packard since 1965

1 Dampers listed below are from 1000s of "off the shelf" inventory dampers, for preventing pipe systems from converting dosing flow shots into pressure pulsation. Prices are tabulated for you at www.pulseguard.com. Call toll free 1-888-DAMPERS(326-7377) for discounts etc. Choose a damper matching your pump connection size, for standard damping. Or allow us to calculate for you, from your smoothness required and your system data.

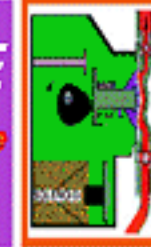


It is least expensive to use standard twin connection dampers, save a "T" - use the other connection for the system drain, R.V. or gauge; when not flowing through.

When you see a damper or a pump of particular interest, please request literature dedicated to that subject.

All Stainless Steel **Flexorber** / LP, With **FLEXFLON** PTFE

For LP Dosing Pump discharge, & suction of HP pumps where EPDM, Buna N, Hypalon, Fluoros. are NOT compatible
Twin connections are off the shelf inventory items. If you do not wish to intercept pressure pulsation, nor to flush before service save the cost of an extra "T", and use the second connection for your RV, Drain, or Gauge. For High pressures see PipeHugger /HP

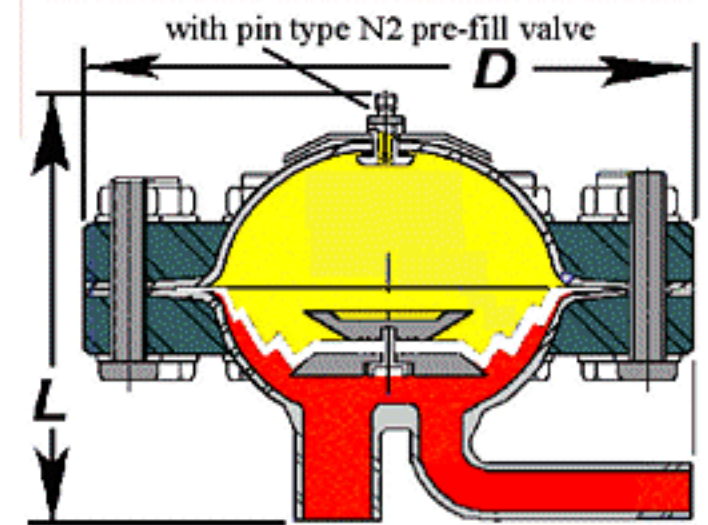


MODEL Nbr. For Purchasing.	/Connections Pmp Sys	/LGTH.DIA. L ins D ins	WGHT./In3/ Lbs. @200F	PSIG /Wetted/ Metal Pt. # SK-	Spares Kit
LpDos-Sog8	/1/4"x1/8" M npt	4.5 6.5	10 /7.5i /300p	/ 316/DW113BF	tfe
LpDos-Sog15	/3/8"x1/4" M npt	6.0 6.5	15 /15i /300p	/ 316/DW123BF	tfe
LpDos-Sog30	/1/2"x3/8" M npt	7.0 7.8	20 /30i /300p	/ 316/DW143BF	tfe
LpDos-Sog60	/3/4"x1/2" M npt	8.0 8.2	19 /60i /250p	/ 316/DW175BF	tfe

PVDF / TFE coated / lined liquid side shells are available. - these have an ANSI B16.5 face to accept your Kynar or other connection blocks

Flexorber LP

DAMPERS WITH CAPACITANCE + DIRECTION CHANGE IMPEDANCE



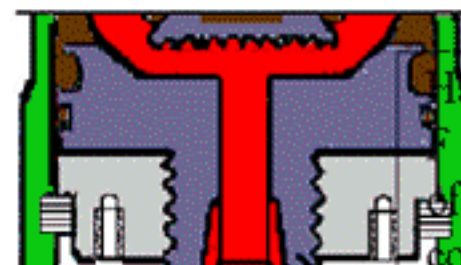
Liquid in elastomer bladder **PipeHugger** / LP, 316ss etc wetted.

For LP Dosing Pump discharge, & suction of HP pumps where EPDM, Buna N, Hypalon, or Fluoros. are compatible
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MODEL Nbr. For Purchasing.	/Connections Pmp Sys	LNGTH.DIA. L ins D ins	WGHT./In3/ Lbs. @200F	PSIG /Wetted/ Metal Pt. # SK- *	Spares Kit
LpDos-Peg10	/1/8" F x1/8" F npt	5.4 3.0	5 /10i /750p	/ 316/ D64L ?	
LpDos-Peg20	/3/8" F x3/8" F npt	5.4 4.0	10 /20i /650p	/ 316/ D85 L ?	
LpDos-Peg40	/1/2" F x3/8" F npt	6.3 4.0	12 /40i /600p	/ 316/ D115L ?	

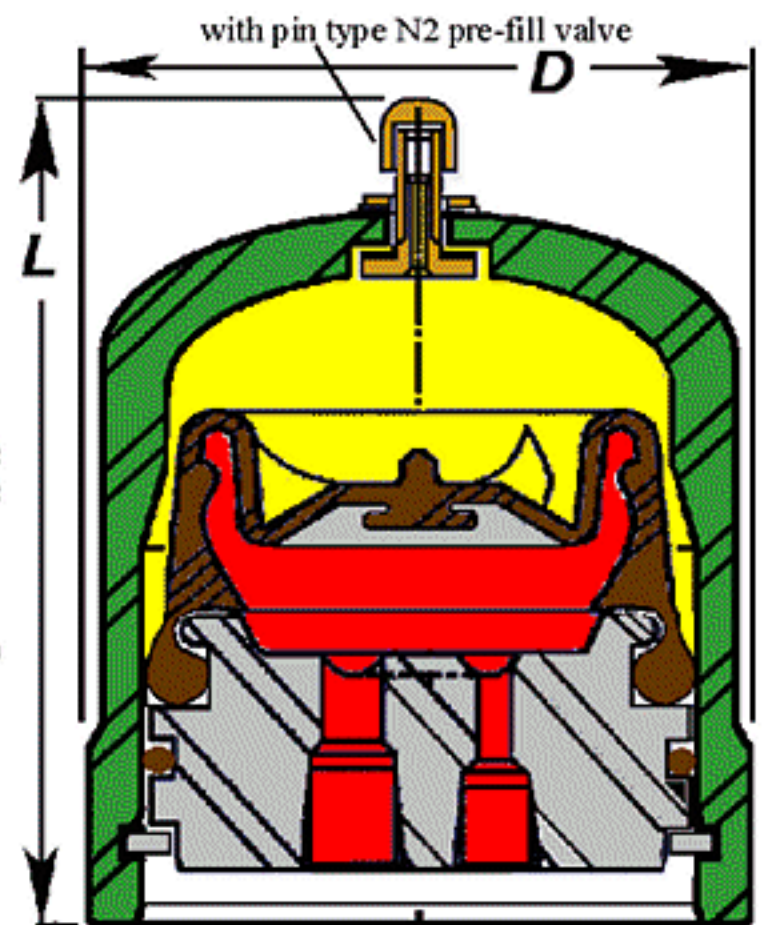


Elastomer lining same grade as bladder + special metal connection



Has both Flg RF & F NPT. + The Strength of metal with the compatibility of plastic.

PipeHugger LP



Peg / "LND." = Lined limited to 225psi **Peg** / Plas = PP, PVC etc. connection 250psi max.

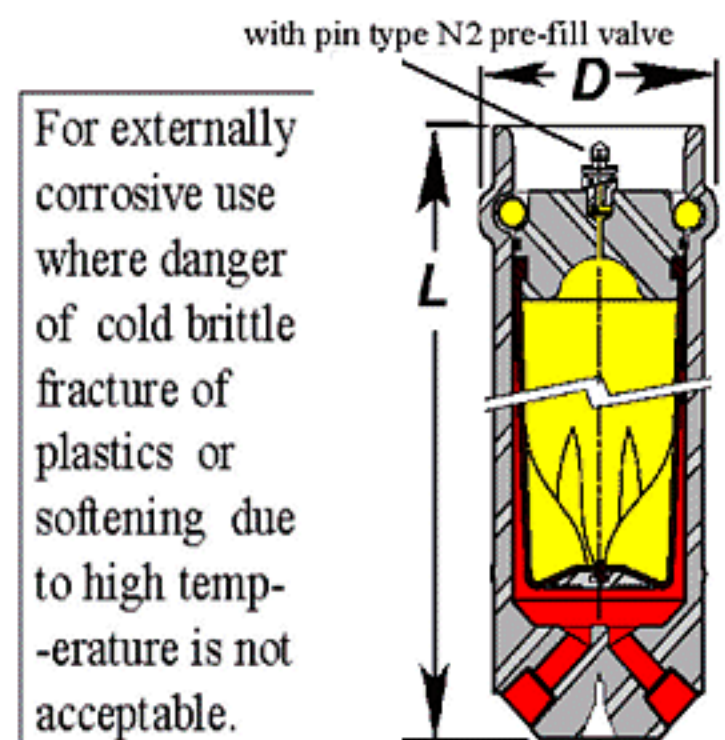
Gas in elastomer Bag **PipeGuard** / LP Liquid in 316ss shell

The 1965 Original, no poppet, one piece molded - no glue or bond in the gas bag, pulsation interceptor.
If you do not want in place flushability, or to intercept pressure spikes, Then save a "T" and use the second connection for your RV, Drain or a FI

MODEL Nbr. For Purchasing.	Connections Pmp Sys	LNGTH. DIA. L ins D ins	WGHT. In3 / Lbs. @200F	PSIG /Wetted / Metal Pt. # SK- *	Spares Kit
LpDos-Pig1	1/4" F x1/8" F npt	4.1 1.4	2.6 /1.0i /1000p	/ 316/ B25x50 ?	
LpDos-Pig6	3/8" F x1/4" F npt	6.0 2.0	3.0 /6.0i /700p	/ 316/ B44x75 ?	
LpDos-Pig15	1/2" F x3/8" F npt	7.5 2.5	5.5 /15i /600p	/ 316/ B57x98 ?	
LpDos-Pig40	3/4" F x1/2" F npt	12.75 2.8	7.0 /40i /600p	/ 316/ B63x207?	

"Pigs" not available in special metal. For A20, Hastelloy, Monel, Titanium2, see "Peg" above

PipeGuard LP

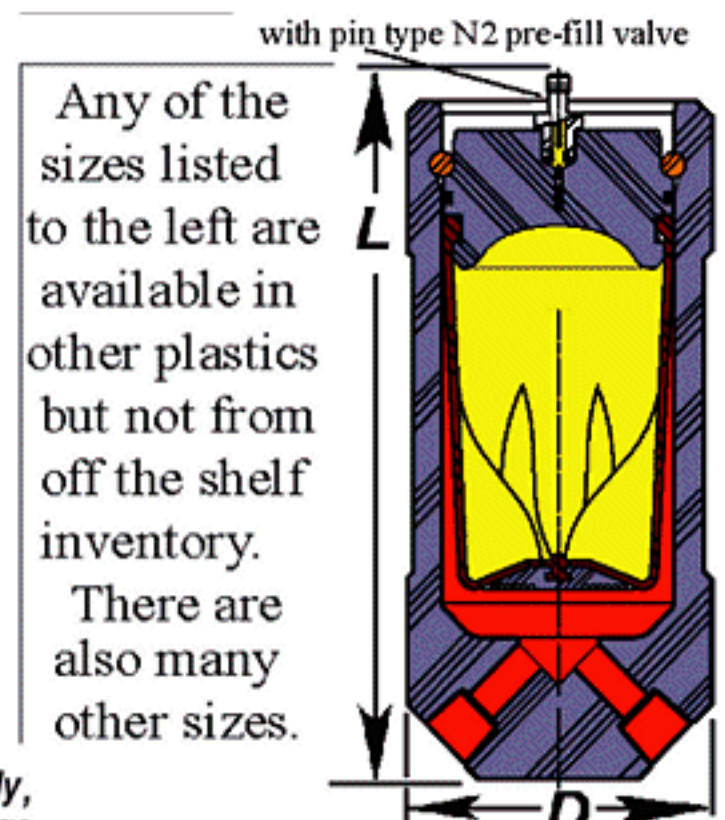


Gas in elastomer Bag **PipeGuard Plas.** Liquid in plastic body

The 1965 Original, no poppet, one piece molded - no glue or bond in the gas bag, pulsation interceptor.
If you do not want in place flushability, or to intercept pressure spikes, Then save a "T" and use the second connection for your RV, Drain or a FI

MODEL Nbr. For Purchasing.	/Connections Pmp Sys	/LNGTH. DIA. L ins D ins	WGHT./In3/ Lbs. @120F	PSIG /Wetted / Plastic Pt. # SK- *	Spares Kit
LpDos-Pig1	/1/8"x1/8" F npt	4.125 1.75	1.0 /1i /225p	/ PVC / B25x50 ?	
LpDos-Pig6	/1/4"x1/4" F npt	6.25 2.56	2.0 /6i /200p	/ PVC / B44x75 ?	
LpDos-Pig15	/1/2"x3/8" F npt	8.125 3.45	5.0 /15i /175p	/ PVC / B57x98 ?	
LpDos-Pig15	/ " " F npt	" "	4.0 /15i /175p	/ PP / B57x98 ?	
LpDos-Pig60	/3/4"x1/2" F npt	12.0 3.45	6.0 /60i /150p	/ PVC / B63x214?	

PipeGuard Plas



3. * The question mark "?" = Letters, showing your choice of compatible elastomer, add the letter to ordering Pt. Nbr. - N=Buna N, E=EP, H=Hypalon, x V=Fluoro-Carbon, x x = addition to cost
A20 = Alloy 20, H22 = Hastelloy 22, Ti2 = Titanium 2, Tan = Tantalum, Zr = Zirconium, DSS = Duplex Stainless, SDSS = Super Duplex.

The ratio of cross sectional areas inside the pipes for best pressure stability is 2:6:3:1 Where 2 is a suitable area for constant velocity suction supply, an area of 6 accommodates the peak velocity of the suction stroke. 3 will takes the peak velocity of the discharge stroke, 1 will be ideal for the discharge.

PUMPS make FLOW, SYSTEMS cause PRESSURE, pressure pulsation is a system response, AND a system responsibility NOT a pump manufacturers liability.