"CLEAR-FLOW" FLEXTUBE DAMPER FOR HIGH VIScosity SLUDGE AND SLURRY 3" UP PIPE SYSTEMS
PULSATION DAMPER, FROM SEAMLESS PIPE BODY AND NO WELDS. PUMPGUARD PULSE DAMPERS DESIGNED FOR HOSE PERISTALTIC PUMP SUCTION & DISCHARGE USE.

WARNING: DO NOT DISCONNECT MATING FLANGE BEFORE RELEASING PRESSURE AT 12 CUSHION GAS FILLING & VENTING VALVE

NOTE: For pipe line loading back onto the PUMPGUARD, there is a "Bolt-Ring" series of these Flow-Thru Pulsation Damper.

Stainless Steel Data Plate.
Girth Bands with lifting eyes, at ends.
Stud Bolt Holes for ANSI B16.5 or DN/PN may be between socket heads.
Preforated support tube for flex tube, Used with high Pre-Fill Pressures.
Pre-Fill Gas Cushion Valve and Vent Safety Overload Release
Socket Head Cap Screws hold flange/cvr.
3 Segments form a Lock Ring
End Plug "O" Seal
Push-in Tube "O" seal
FlexTube, with ends to prevent extrusion.
Raised Face on push-in tube with seal.
Corner filling ring.
End Plug with seal groove, (tamper-proof)
Pipe Body, ends bored & grooved
Tapped Stud Bolt Hole Flange / End Cvr.

We are able to warrant safety when following our own 30 year proven methods :-
We can not accept end user statement that design pressure is working pressure
Where Allowable Working Stress = S
E is 1.0 No Welds, or radiographed.
Design Pressure P = MAWP + 10% + 15%
E is 0.7 Welded but not radiographed.
Joint Efficiency = E
RV RVAcc
RV is for relief safety valve set pressure
RVacc for relief valve accumulation pressure
T = Design Pressure x Radius Internal
S(From Pt II D 1992) x E - (0.6P)

The ASME have increased allowable working stress, enabling cheaper less safe vessels, so "U"certification business can be expanded competitively, and hence ASME income.
Concurrently the European PED has no Safety Coefficients in its ESRs approved for cyclic duty snubber dampers, whilst allowing ductility as low as 14%. So no one is able to give a guarantee of suitability for purpose on "Coded" pulsation dampers.