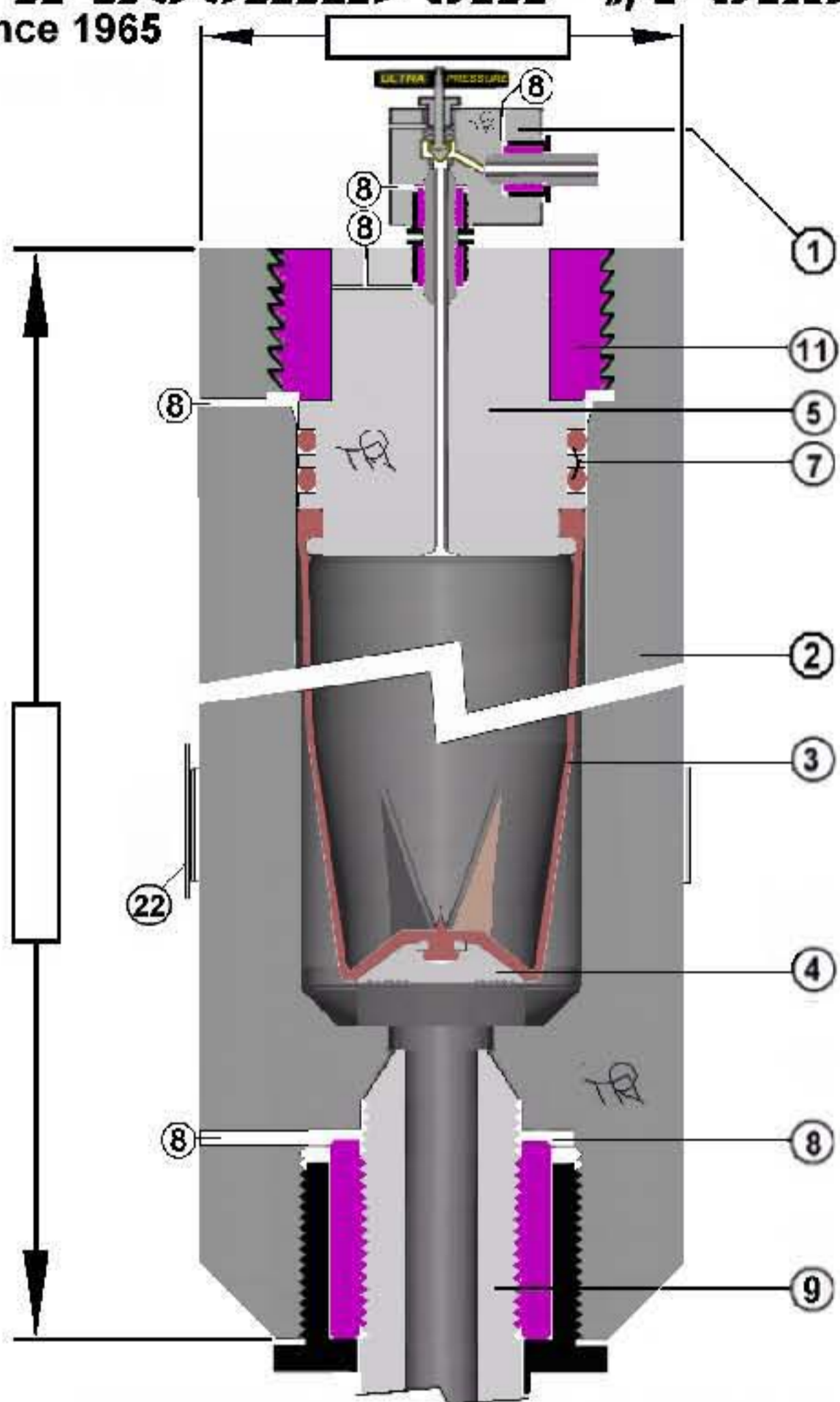


"PIPEGUARD UHP" by PULSEGUARD "Pig/UHP" Pulsation Dampner, ULTRA PRESSURE Series, & Options

Since 1965



Duplex & Super Duplex Stainless Steel wetted metal parts + EP, Nitrile, Hypalon, Fluorel etc gas bags.

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

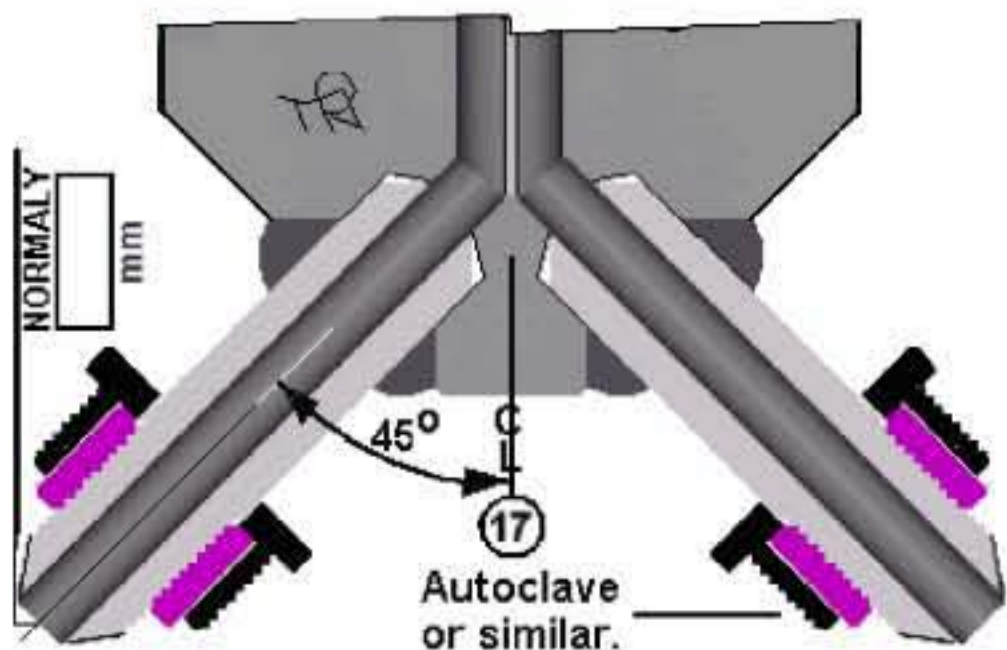
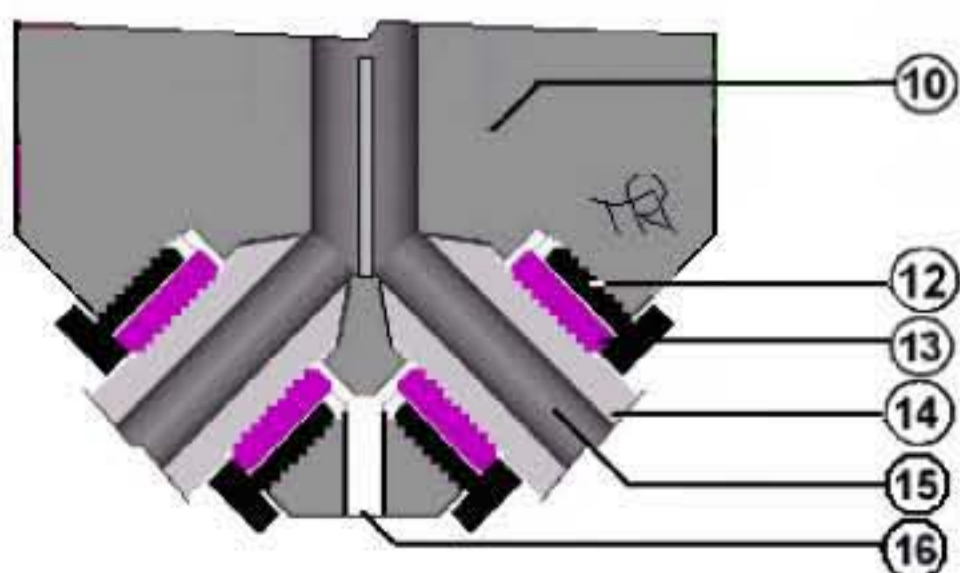
Where Allowable Working Stress = S
Design Pressure P = MAWP + 10% + 15%
Joint Efficiency = E RV RVacc
RV is for relief safety valve set pressure
RVacc for relief valve accumulation pressure
E is 1.0 No Welds, or radiographed.
E is 0.7 Welded but not radiographed.
 $T = \frac{\text{Design Pressure} \times \text{Radius Internal}}{S(\text{From Pt. II D 1992}) \times E - (0.6P)}$

The ASME have increased allowable working stresses, enabling cheaper less safe vessels, so that their "U" certification business can be expanded against international competition, and the income of ASME International increased.
In any event Div. 1 is for up to 3000 psi service.

Concurrently European Pressure Equipment Directive, the "DEP" enforced by criminal law, has no "SAFETY COEFFICIENTS" in its "ESRs" -Essential Safety Requirements- approved for soft cyclic duty snubber dampers, whilst also allowing ductility as low as 14%.
These codes prevent code dampers being warranted safely suitable for purpose.

CONNECTION OPTION "45-45 MALE"
TechLock / GL / SL / etc HUBS also available

CONNECTION OPTION "45-45 FEMALE"



Typical UHP Duplex Stainless and Elastomer Gas Bag Damper.bmp

● Diametral Static "O" Seals
90 IRH / Shore "A"
"B" diam, mm

"y" is gas bag length, mm

Spares Kit
Pt Nbr. SK/
B.....y.....

Enter *
Letters
Denoting
Elastomer
Typer
Required
E = EPT/EPDM
N=Nitrile
H=Hypalon
B=Butyl
V=Fluoro Elastomer
etc.

DECLARATION
as required by
PED Mandatory Essential
Safety Requirement "ESR"
state under design 2 at 2.1
the use of:
"SAFETY COEFFICIENTS"
this can not be complied with
because neither EN 5500
nor EN 13445 have
any Safety Coefficients.
Accordingly:
It must be a fraud for any
notified body to issue a
certificate of conformity
to ISO9001-2000 holders
claiming any suitability
for purpose from their
quality system.
M. Packer, designer and
"responsible party".

22	Stainless Data Plate on stainless banding.	IDENTIFICATION / TRACEABILITY
18	60° Male Connections Coned are easier to refurbish, but make seal & bag service harder.	
17	60° Cone Ended Heavy Wall tube	
16	Escape hole, leakage overload prevention.	
15	45°x45° to Center Line - Connection Orientation	
14	Left Hand Threaded Tube Ring	
13	Hollow Nut	
12	Buttress Thread Ring	
11	Twin Port Thru-Flow "Interceptor" with weir plate	
10	Single Connection, Autoclave Type.	
9	Escape hole, leakage overload prevention.	
8	"Header Plug" - static diametral seals "O" ring	
7	End Closure "Header Plug" Prefill Gas charge point.	
6	Anti Extrusion Plate	
5	Gas Bag "Bladder" "B---y---" (mm Dia x mm high)	
4	Body From Solid Billet	
3	Nitrogen Pre-Fill Valve - Customer choice.	
2		
1		

Item Nbr	Description / function	Internal "Heat/Cast No"
↑ BILL OF MATERIALS ↓		
Scale : Please do not print without "MAINTAIN ASPECT RATIO" on, Use A3 paper on A3 paper, Landscape 420mm wide		
Part Nbr. / Drawing Ref :	Date	th 200_ Rev Nbr
Pig/Dss/___i/___p/B___y___/		or 45°x45° ___x___ Duplex

PulseGuard <http://www.PulseGuard.com>
PulseGuard für Deutschland <http://www.PulseGuard.co.uk>
PulseGuard, de langue Francaise www.pulsationdaempfer.com
PulseGuard, en Espanol/ sud Amerique [amortisseurs-de-pulsations.com](http://www.amortisseurs-de-pulsations.com)
PulseGuard, dlya Russkogovoryaschih [amortiguador-de-pulsaciones.com](http://www.amortiguador-de-pulsaciones.com)
PulseGuard [pulsations-dampfer.com](http://www.pulsations-dampfer.com)

PulseGuard is the USA registered trade mark of PulseGuard Inc.
 PulseGuard is the UK registered trade mark of PulseGuard Ltd.
UK --44(0)161-480-9625 USA ---1910-270-2737

