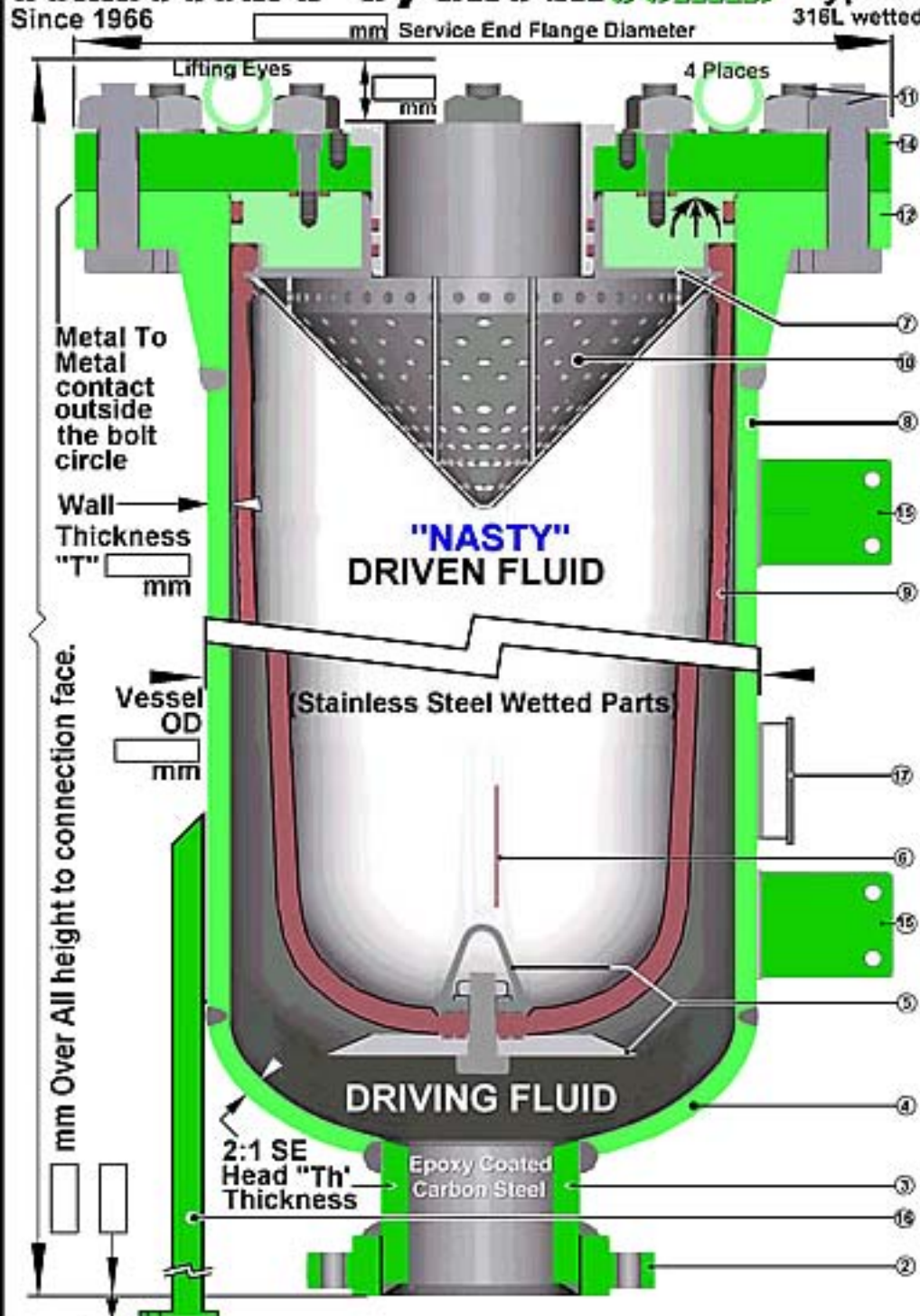


"JumboGuard" by SHOCKGUARD Typical "Jug" Series "Transfer Barrier" between 2 fluids.



316L wetted, carbon steel housing + EP, NBR, Hypalon, Fluorel Transfer Barrier Bag.
 Enables a "nasty fluid" to be pumped by an easily pumpable fluid,

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

E is 1.0 No Welds, or radiographed.
 E is 0.7 Welded but not radiographed.

RV is for relief safety valve set pressure
 RVacc for relief valve accumulation pressure

$T = \frac{\text{Design Pressure} \times \text{Radius Internal}}{S(\text{From Pt. II D 1992}) \times E} - (0.6P)$

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

Item Nbr	Description / function	IDENTIFICATION / TRACEABILITY
17	Stainless Steel Data Plate	
16	3 or 4 Legs & foot bolt holes, Optional	
15	Mounting Lugs Optional	
14	Closure / manway, Transfer Barrier bag	
12	Vessel open end flange loading	
11	Closure bolting	
10	Anti-Extrusion Cone for barrier bag.	
9	Transfer Barrier bag,	
8	Vessel shell cylinder	
7	Stainless Plate Cladding, end plug.	
6	Anti extrusion plate weight suspension	
5	Anti-Extrusion Plate with tension strap connection hoop (Large units only)	
4	2:1 S.E. Head	
3	Driving Fluid Connection nozzle Max D 0.3 x Vessel Diameter (Sch XXH smfs)	
2	Driving Fluid Connection	
1	Driven Fluid Connection	

Item Nbr	Description / function	Internal "Heat/Cast No" PURCHASE No
BILL OF MATERIALS		

Scale : Please do not print without "MAINTAIN ASPECT RATIO" on Use A3 paper on A3 paper. (indicated 20mm wide)

Part Nbr. / Drawing Ref : , Date th 200_ Rev Nbr 1

Jug /cs-ssl Lt./ bar/ v / SA 106 / (eg. EX: DN300 PN 16 or 12" 150#)

SHOCKGUARD <http://www.shockguard.co.uk>

SHOCKGUARD <http://www.shock-guard.com>

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SHOCKGUARD www.shockabsorber.com

SHOCKGUARD www.shock-alleviators.co.uk

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