

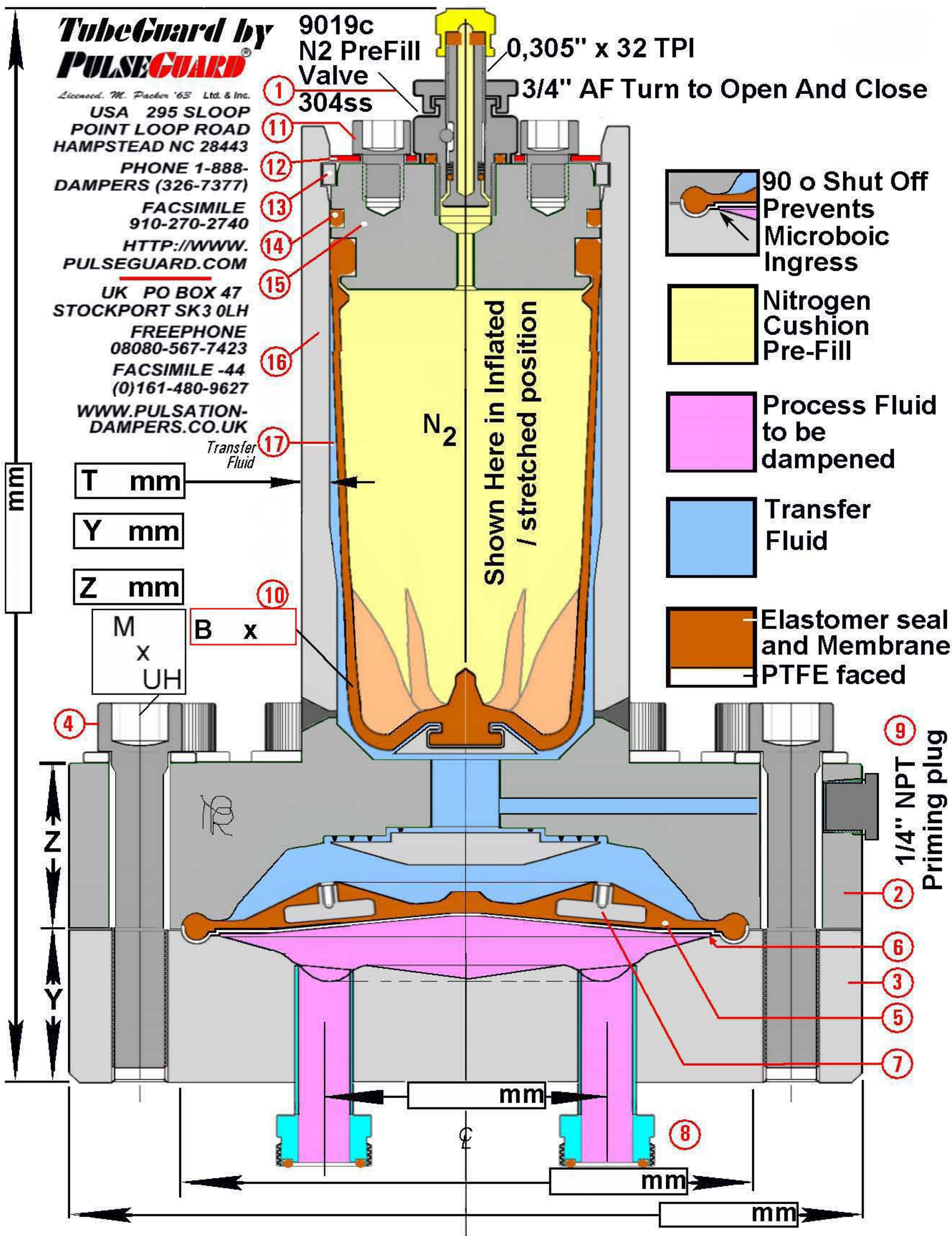
Pulsation Damper CIP, HPLC piggy-back PTFE and Polished stainless with Low Pressure CIP flushing

TuG-HPLC-TW TUBE GUARD "PiggyBack"
 Cleanable in place below pre-fill pressure. Pulse Damper



SANITARY / C.I.P. & HPLC DAMPER

CONNECTIONS "CB" OR "TRI-CLOVER" OR NATIONAL OR INTERNATIONAL DIARY FITTINGS UP TO 2" TUBING.



TubeGuard by PULSEGUARD
 Licensed M. Packer '63 Ltd. & Inc.
 USA 295 SLOOP
 POINT LOOP ROAD
 HAMPSTEAD NC 28443
 PHONE 1-888-
 DAMPERS (326-7377)
 FACSIMILE
 910-270-2740
 HTTP://WWW.
 PULSEGUARD.COM
 UK PO BOX 47
 STOCKPORT SK3 0LH
 FREEPHONE
 08080-567-7423
 FACSIMILE -44
 (0)161-480-9627
 WWW.PULSATION-
 DAMPERS.CO.UK

- 90 o Shut Off Prevents Microboic Ingress
- Nitrogen Cushion Pre-Fill
- Process Fluid to be dampened
- Transfer Fluid
- Elastomer seal and Membrane PTFE faced

Item	Pt #	DESCRIPTION	Mtrl.	Ht./Cast/PO #	CUSTOMER
1	9019c	Type N2 Valve , Metal to Metal Seat	304ss		CUSTOMER Ref.
2	Gas Cap	Stainless PVQ Plant	SA240		3 Rd. Party QA \$s Extra
3	Liquid Chamber	Stainless PVQ Plant	SA240		DOCUMENTATION LEVEL \$s Extra
4	12 Boltings, Reduced to threat root Diameter		B8Mss		WELDING, W Nbr. 100% GTAW
5	Composite Diaphragm, PTFE + Elastomer		TFE-EPDM		SHOP / JOB Nbr.
6	Sealing, 90° shut-off	PTFE on to polished ss			WEIGHT Est.
7	Anti-Extrusion Stiffener encapsulated in diaphragm				ISSUED By TR Date: / /
8	Connections, Tri-Clover, IDF, etc.				CHECKED By Date: / /
9	Transfer Fluid Set-Up port				FILE NAME
10	Cushion Chamber Gas Bag		Nitrile		SCALE NOT TO SCALE
11	Cover Plate Retaining Bolts		C.S.		REVISION Nbr. Date: / /
12	Cover Plate		316		DIMENSIONS: mm, Unless Otherwise Stated
13	Tamper-Proof Segmental Lock Ring		316		
14	Diametral Seal		Nitrile		
15	Cushion Gas End Plug		316L		
16	Piggy-Back Dampner Body		316L		Sheet 1 of 1

PulseGuard "Y-T" Block Connection Options
 Provides an "O" ring and bolts interface between a pipe system and the dampner capsule, ensures flo-thru pressure wave interception, in place flushability, saves flange and "T", 37.5° butt weld to system.

Called - Weld connection angles to this system fitting C/L

The PulseGuard "Top Hat" allows flushing of pipe crud, and pipe hydro-test before the dampner capsule is bolted on, may also be used to replace the dampner during service.

PulseGuard <http://www.PulseGuard.com>
<http://www.PulseGuard.co.uk>
PulseGuard für Deutschland www.pulsationdaempfer.com
PulseGuard, de langue Francaise amortisseurs-de-pulsations.com
PulseGuard, en Espanol / sud Amerique amortiguador-de-pulsaciones.com
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 For Americas & Pacific 01(1)910-270-2737
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VIEW NUMBER

Associate licensees:

- Shock Alleviators
- Flow Fuses
- Product Design
- Accumulators
- Analysis