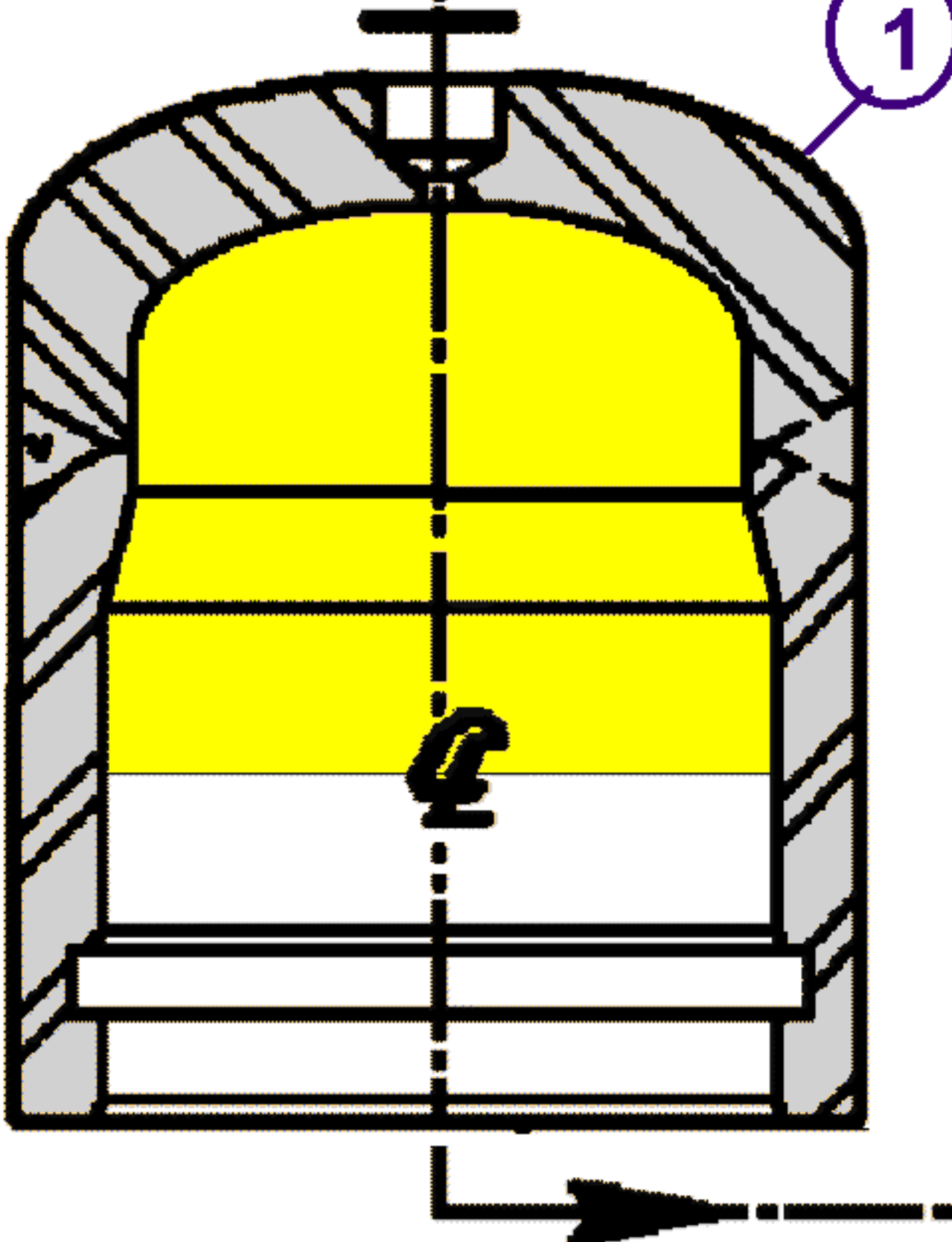


### CUSHION PREFILL DRIVE BONNET END

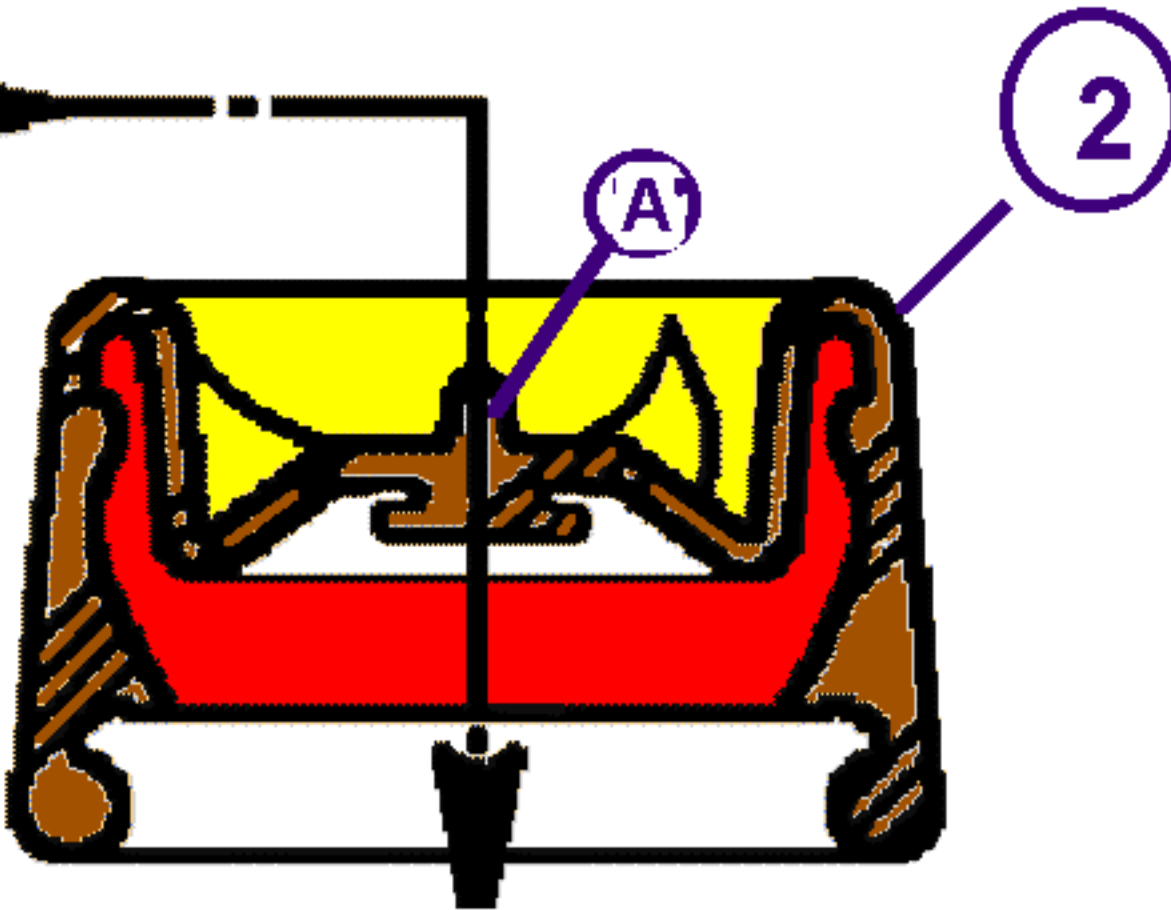
The 9019c Valve has been proven by more than 25 years use on the landing gear of every aircraft on which you have ever flown. **DO NOT REPLACE IT**

9019c N<sub>2</sub> Pre-Fill Valve 304 SS up to 6000 psi  
9919a N<sub>2</sub> Pre-Fill Valve Duplex SS up to 20,000 psi



### LIQUID-IN BLADDER

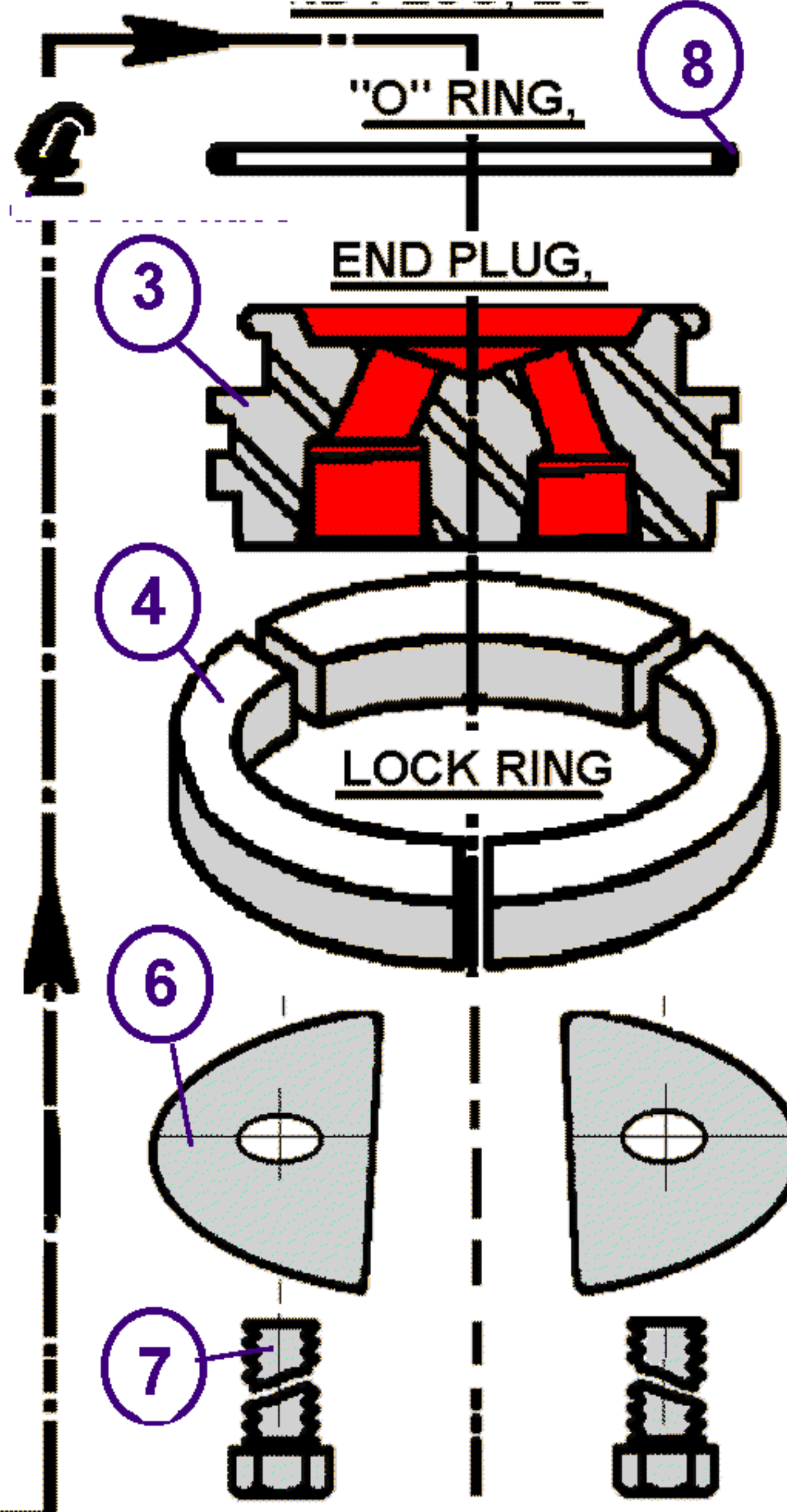
When liquid is inside a membrane we say "bladder", as opposed to a balloon, or "gas bag". With **liquid** inside, **Nitrogen** in the drive bonnet or "vessel", the vessel does not have to be from exotic material



The pip of incompressible elastomer inside center of the rolling diaphragm shown above, is located within the undercut of the anti-extrusion plate 5 below. A blunted & smoothed prodder & hollow ended pusher are used to push at "A" and feed pip into "B"



### WET END



Separator Membrane	Nitrogen
Metal or plastic	Process Liquid

- 1 Vessel shell, with 4:1 safety factor .
- 2 Seamless one piece molded/moulded bladder, no bonds or glue
- 3 Thru-flow flushable intercepts pulses
- 4 Tamperproof lock ring Segmental needs no tools
- 5 Same material as 3
- 6 For "minus" pressure and transportation
- 7 Keeper bolts, holes used for extracting 3 and or mounting
- 8 Diametral "O" seal prevents ingress of corrosion.
- 9

## FOR THE SAME PRICE AS A SPARES KIT



we will supply and fit a spares kit and recertify your damper for you  
This way, you allow us to see as many of our products back as possible, and we learn the improvements that you need.  
It is part of our ISO 9001 continuous improvement policy.

As a manufacturer of vessels to ASME VIII Div. 1 "U" stamp, we believe in regular corrosion inspection and re hydro testing.

To return an item for service, first call to ask for a RGA / RMA (Return Goods/Mtl Authorization) Nbr.

Item 2, Bladder part numbers are the outside diameter mm at the sealing bead followed by S=Short, M=Medium, L=Long  
D = Bladder Example: | D450L`-? where?=the bag material. N=ButadieneAcryloNitrile, E=EthylenePropyleneTerPolymer  
V=FluoroCarbonElastomer, B=Butyl, H=ChloroSulphonated Polyethylene "Hypalon", S=Silicone Rubber, Nat=Natural Rub.

To order spares : SK=Spares Kit Example SK- D450L-E includes the Bladder and the necessary seals also.

## Dampers That Do - FLOW goes Through - Pressure pulses do not

**PulseGuard Inc. & Ltd.** In USA Call 1-888-DAMPERS, FAX 1-888-TALK-DLR,  
in UK Freephone 08080-LO-PRICE, Faxfree 0800-174088

