

Subject: PEFS LOP Valve Actuation Bypass – Design Change

Product: PEFS F3 and PEFS C6 LOP systems

Parts: 28059 LOP Valve Actuation Bypass

The LOP Valve Actuation Bypass Kit is an optional modification for a PEFS LOP System.

It was released on the 23rd of March 2020. Refer to Technical Bulletin No: [TB202001](#)



Figure 1

The maximum number of PEFS LOP cylinders that can be used in a single system is ten (x10) but the initial design of LOP Valve Actuation Bypass was limited for use on a maximum of eight (x8) cylinders. At the time of testing the Bypass was only able to pass one of the performance tests in AS5062-2016 by reducing the quantity of cylinder assemblies. The test requires that multiple valve assemblies operate within a one (1) second maximum time interval between operation of the first valve and the last.

The Bypass has been redesigned and successfully tested to the requirements of AS5062-2016. It can now be used on a maximum of ten (10) cylinders in a PEFS LOP system. Pressurising a system will take slightly longer now due to the design change.

There is no change to any part numbers and all stock has been updated;

Item	Part Number
LOP Valve Bypass Kit (complete)	28059
Piston Assembly Bypass	24003
Filler Plug Assembly Bypass	23104
S/S Braided Hose	46032
Tee 7/16" JIC m/f/m	72025
Nipple 1/8" NPT x 7/16" JIC	72018

Table 1

Identification

A quantity of the initial design is still in service. The initial design can be identified according to the size of the hole in the retaining screw cap. The hole is smaller with the new design. See figure 2 below.

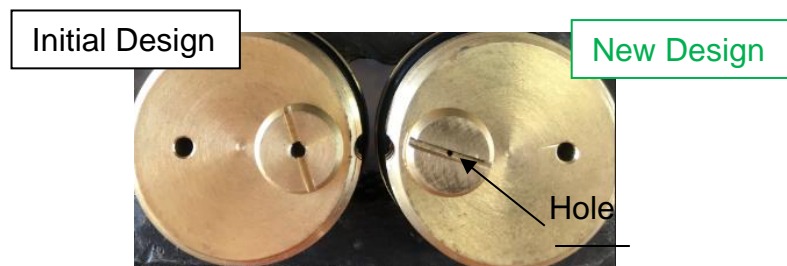


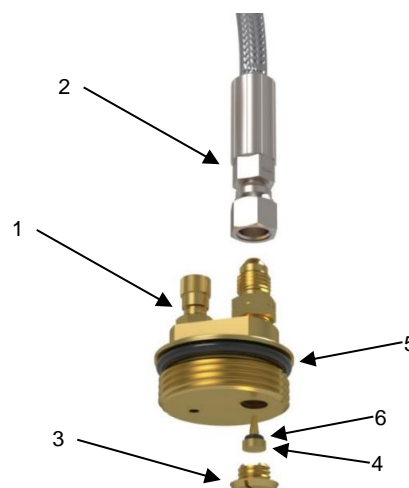
Figure 2

Installation Note: Ensure the actuation system is clear passage tested and clean from foam residue and or other contaminates.

Maintenance

The following task is to be carried out at the yearly service schedule:

1. Ensure the cylinder is de-pressurised
2. Remove hose assembly (2) from filler plug assembly (1)
3. Remove filler plug assembly (1) from cylinder
4. Unscrew retainer (3) and remove check valve (4)
5. Inspect and clean o-ring (5) and check valve o-ring (6). Replace if they show signs of wear or damage. **Do not** lubricate check valve o-ring (6).
6. Re-fit retainer (3) using Loctite 569 or Loctite 577 on thread
7. Check free movement of check valve after re-assembly.



Effective Date: Immediately

Issue Date: 1st February 2021