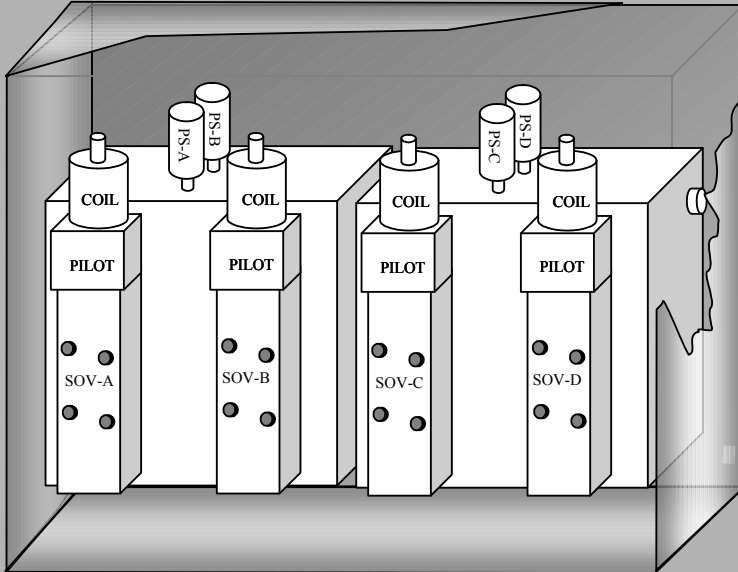


SILstroke-3B



The Only Fault-Tolerant, Fail-Safe Air Supply & Venting Design



ESDV APPLICATIONS

LOWEST COST - HIGHEST RELIABILITY

PATENTED 2004 SOV ARRANGEMENT

CLASS I, DIV 2, Grp A-D

FAULT TOLERANT & FAIL SAFE

POWER: 18 to 28VDC; 450ma

NO PROGRAMMING

SIL 3 CERTIFIED by TÜV

Got a ESD valve that has to work?
Does it have to stay open to make money, and
does it have to close to shutdown the process
and prevent an explosion?

SILstroke-3B has been certified to achieve 1×10^{-5} reliability by the TÜV. This 12" x 12" x 12" box with its series / parallel SOVs can experience any SOV failure and still operate the ESDV properly. No matter if the SOV fails stuck open or close, SILstroke-3B will operate the ESDV flawlessly.

Installation → Simple! Remove the old SOV and install SILstroke-3B. Use the same air supply and SIS ESD signal. Then connect the SILstroke-3B air output to the ESDV and you are done!

Good news! Because of the 1×10^{-5} reliability numbers, spurious trips and dangerous failures are virtually eliminated, and the proof test interval for the ESDV can be increased by 5X. So if you are proof testing the ESDV every six months, now it could be once every 2.5 year, without impacting the SIL.

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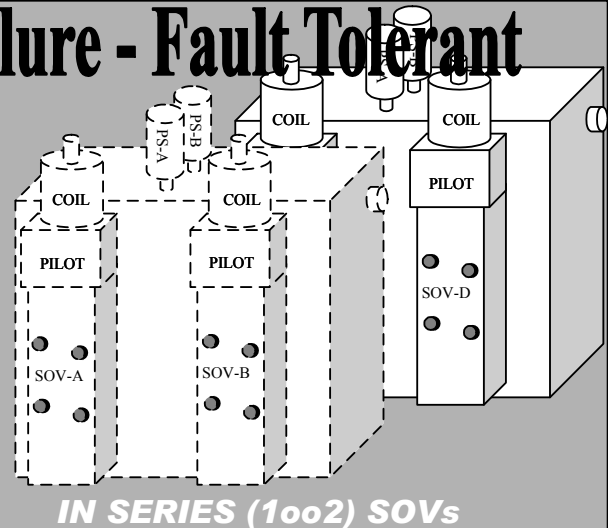
No Single Dangerous SOV Failure - Fault Tolerant

SILstroke-3B OPERATION

SOVs in a 2oo4 arrangement masks all single failures, both dangerous and spurious. The arrangement shown below illustrates how SILstroke-3B is both a fault-tolerant and fail safe design.

The parallel paths provide the fault-tolerance, and the series SOVs provide the fail safe aspect. Pressure switches are used to monitor the SOV's status.

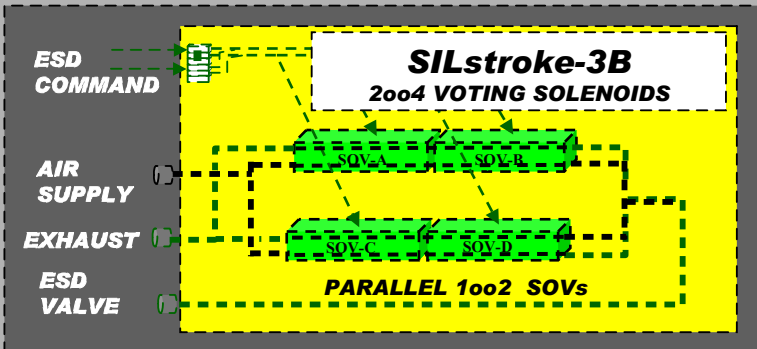
With its parallel 1.5 Cv air paths, the SILstroke-3B solution meets the process safety time for both small or large ESD valves.



OPTIONAL FEATURES

- 1) Individual SOV & Pressure Switches Termination Blocks
- 2) ESD Valve Position Termination Blocks
- 3) Local Reset Push Button
- 4) Dual ESD Signal Support

SILstroke-3B: DUAL AIR SUPPLY & VENTING



IMPORTANT NOTICE

SILstroke-3B SOVs has:
 - Dual Air Supply Paths
 - Dual Venting Paths

FAULT TOLERANT DESIGN!

ASCO 2oo2 SOV PACKAGES

IMPORTANT NOTICE

Whereas the ASCO 2oo2 SOVs package has:
 - a parallel supply path;
 - **BUT a single venting path!**

