

The background features several large, thin-outlined circles in pink, green, and blue, partially visible at the edges of the frame. A central black circle contains the 'samson' logo.

samson

AND
EVERYTHING
FLOWS

**Modular
Interlocking
Manifold**

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Modular Interlocking Manifold



Samson Starline Interlocking Manifolds are specifically developed for HIPPS applications in Safety Instrumented Systems.

The special design forces the user to follow pre-defined sequential operation to isolate and vent only one initiator at a time, in order to avoid spurious trips or other issues related to human error.

The highest standards of safety, reliability, and operational efficiency in the Oil & Gas industry are met.

Safety

Designed to meet the IEC 61508 / 61511 standards (up to SIL4), these devices are specifically engineered as a critical component within **High Integrity Pressure Protection Systems (HIPPS)**.

The special construction of the device prevents human errors and ensures the safe block & bleed operation of the initiators (pressure transmitters).

Reliability

Built to withstand extreme conditions and designed for long-term reliability, every detail is studied to minimize downtime and maintenance costs.

All the production phases, from engineering, mechanical processing to testing, are carried out with rigorous controls over every step, which guarantee to the final product the highest level of quality.

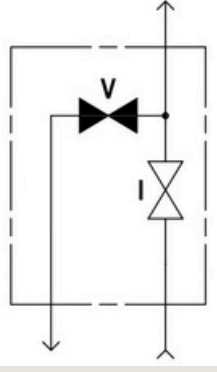
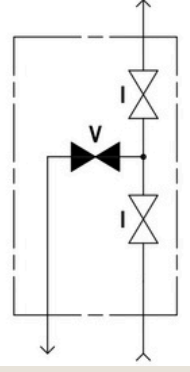
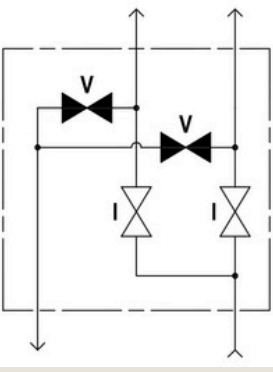
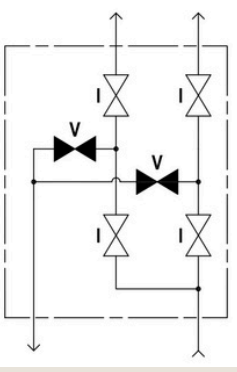
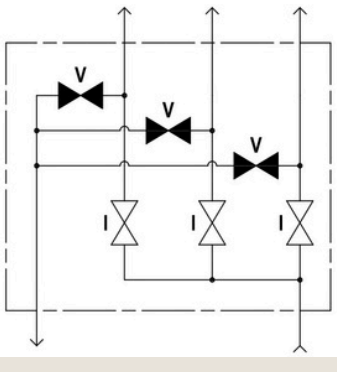
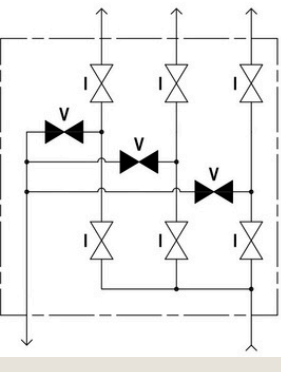
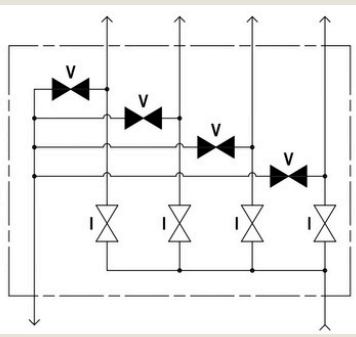
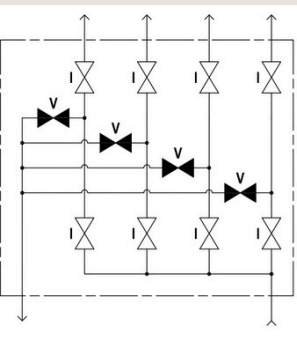
Efficiency

The intuitive design of Samson Starline Interlocking Manifolds ensures the correct block & bleed procedure through a sequence of easy and safe operations.

Configuration

Samson Starline Interlocking Manifold modular design covers a variety of configurations, according to the required architecture.

The standard versions are shown in the following table; additional configurations are available on request.

 <p>1oo1 - SBB (can be combined for redundancy)</p>	 <p>1oo1 - DBB (can be combined for redundancy)</p>
 <p>1oo2 - SBB</p>	 <p>1oo2 - DBB</p>
 <p>2oo3 - SBB</p>	 <p>2oo3 - DBB</p>
 <p>1oo4 - SBB</p>	 <p>1oo4 - DBB</p>

Ordering Information (Key Features)

VERSION

- **SBB:** Single Block & Bleed
- **DBB:** Double Block & Bleed

INSTRUMENTS CONFIGURATION

- **1oo1:** Qty.1x PT always available (can be combined for redundancy)
- **1oo2:** Qty.1x PT available / Qty.1x PT redundant
- **2oo3:** Qty.2x PT available / Qty.1x PT redundant
- **1oo4:** Qty.3x PT available / Qty.1x PT redundant
- **[*]:** Special configurations available on request

INLET CONNECTIONS / FLANGES

- **2" (ASME B16.5):** 150 RF / RTJ
300 RF / RTJ
600 RF / RTJ
900/1500 RF / RTJ
2500 RF / RTJ
- **2.1/16" (API6A):** 5.000 psi
10.000 psi
- **Threaded:** ASME B1.20.1
- **[*]:** Additional configurations available on request

OUTPUT CONNECTIONS FOR PRESSURE TRANSMITTERS

- **NPT:** 1/4"
1/2"
- **OVAL FLANGE:** DIN 61518
- **[*]:** Additional configurations available on request

VENT CONNECTION

- **NPT:** 1/2"
- **[*]:** Additional configurations available on request

SEALS

- **PTFE:** For standard temperature
- **GRAPHITE:** For High temperature
- **[*]:** Additional seal materials available on request

BODY MATERIAL

- **17.4 PH:** ASTM A564 UNS S17400
- **904L:** ASTM A479 UNS N08904
- **A105:** ASTM A105N
- **ALLOY 625:** ASTM B446 UNS N06625
- **ALLOY 718:** API 6A 718 (UNS N07718)
- **ALLOY 825:** ASTM B425 UNS N08825
- **ALLOY C.276:** ASTM B574 UNS N10276
- **F316/316L:** ASTM A479 316/316L Dual Certified
- **F44:** ASTM A479 UNS S31254
- **F51:** ASTM A479 UNS S31803
- **F53:** ASTM A479 UNS S32750
- **F55:** ASTM A479 UNS S32760
- **LF2:** ASTM A350 LF2 Cl.1
- **Monel 400:** ASTM B164 UNS N04400
- **MK500:** ASTM B865 UNS N05500
- **XM-19:** ASTM A479 XM-19
- **TIT. GR.2:** ASTM B348 Grade 2
- **TIT. GR.5:** ASTM B348 Grade 5
- **[*]:** Additional materials available on request

OPTIONS

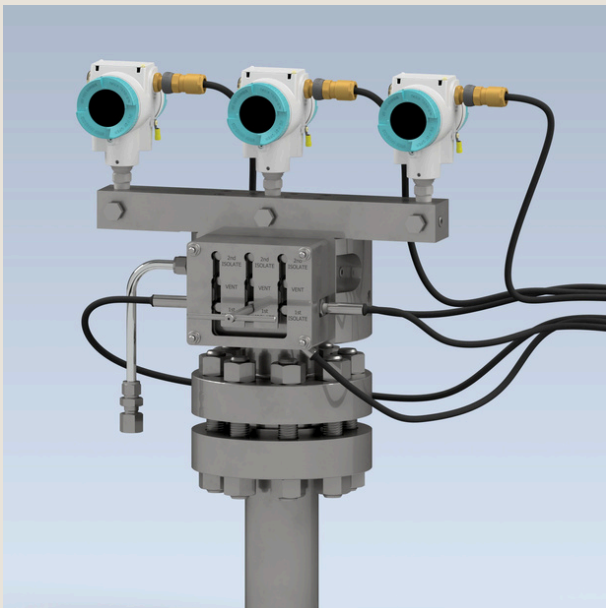
- **Proximity Switches:** SS316, Exd or Exia cert., to detect the status of the block and bleed valves
- **Test Check Valve:** Check Valves for testing / calibration
- **Sunshade:** SS316 Canopy
- **Enclosure:** SS316, IP66 std. configuration
- **Wiring Terminal Box:** SS316, Exd or Exia cert. JB for the wiring of electrical devices
- **Heater:** Self regulating with in-line thermostat
- **[*]:** Additional or special configurations available on request

ENCLOSURE

The Interlocking Manifold can be supplied installed in a protective enclosure, suitable for applications in extreme environments. This solution is essential to keep the instrumentation protected from external atmospheric events and to avoid tampering.

TAILOR MADE

Depending on the application and project specification, the Manifold can be engineered according to the Customer requirements, in order to achieve the full compliant solution with the highest level of quality and technological content.





KNOW
EVERYTHING
ABOUT YOUR
VALVES:



AND
EVERYTHING
FLOWS

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