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Plan 01 Single Seals Description: Plan 01

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is an internal recirculation from the pump discharge area of the pump into the seal chamber, similar to a Plan 11 but with no exposed piping. Advantages: No product contamination and no external piping.

### **Mechanical Seal Piping Plans Companion Booklet**

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Mechanical Seal Piping Plans Mechanical  
Seal Piping Plans Single Seals Dual Seals  
Plan 62 Plan 65A Plan 72 Plan 74 Plan 75  
Plan 76 Dead-ended seal chamber with  
Recirculation from seal chamber no flush  
to pump suction through orifice Good  
Piping Practices outlet inlet vent,  
normally closed ...

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## **Mechanical Seal Piping Plans John Crane - Legacy | pdf ...**

Standard Piping Plans and Auxiliary Hardware Annex G of the 4th edition is generally reorganized and includes six new piping plans: Plan 03 gives purchasers the option of using the seal chamber's special features to enhance

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circulation or venting in the machinery.

### **Prepare for the 4th Edition of API 682 | John Crane**

PLAN 11 Application Notes: Default seal flush plan for all Arrangement 1 and 2 seals . Fluid flows from the seal chamber back into the process stream . Important to determine the required flush flow rate



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(especially for high-head applications)  
and select proper orifice and throat  
bushing dimensions to assure adequate  
flow .

### **MECHANICAL SEAL PIPING PLANS**

Gas seal piping plans include Plans 72,  
74, 75 and 76. Plan 72 This plan uses an  
externally supplied, low-pressure buffer

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gas (usually nitrogen) that is injected into the outer seal cavity.

### **API Seal Piping Plans for Mechanical Seals | Momentum Systems**

Piping plans help keep mechanical seals running cool and clean, promote safe handling of dangerous fluids, and extend the operational availability of rotating

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equipment.

## **Mechanical Seal Piping Plans - Flowserve**

Plan 65B Plan 66A Plan 66B What Seal flush from pump discharge through orifice. Default single seal flush plan. Why Seal chamber heat removal. Seal chamber venting on horizontal pumps.

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Increase seal chamber pressure and fluid vapor margin. Where General applications with clean fluids. Clean, non-polymerizing fluids. What Dead-ended seal chamber with Recirculation from seal chamber

### **Mechanical Seal Piping Plans - Flowserve Corporation**

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Session 3: Mechanical Seal Piping Plans of the Pump & Seal Reliability Webinar Series Stay in Touch: Website: <https://www.cummins-wagner.com/state/new-york/> ...

### **Mechanical Seal Piping Plans | Webinar Session 3 | Siewert ...**

A few simple principles can guide you to

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the best seal flush plan for your installed mechanical seal, allowing the seal to operate in an environment that generates optimal seal life yet minimizes costs from water usage and product dilution. Today, we'll identify 4 flush piping plans for single mechanical seals and how they work.

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## **Selecting a Seal Flush Piping Plan for Your Single ...**

API Piping plans help to ensure good conditions for mechanical seal operation as well as improving safety and pump reliability. Please contact AESSEAL Systems Division for further details. Tel: +44 (0)28 9266 9966 Email: [systems@aes seal.com](mailto:systems@aes seal.com) For more

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information, and a video demonstrating the piping plan in operation, select a plan below

**API Piping Plans - Page 1 | AESSEAL**  
Wet Seal Systems. With over 100 years' experience in developing technologies that optimize rotating equipment performance, John Crane understands



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mechanical seals. We know that you need reliable seal performance to maximize process efficiencies while meeting production targets and constantly evolving, stringent operational requirements.

### **Mechanical Seal Support Systems | John Crane**

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PIPING PLAN PIPING PLAN Plan 01 Single seals - internal flush Plan 02 Single seals - no flush Plan 03 Single seals - circulation between seal chamber and pump created by design of the seal chamber Plan 11 Single seals - by-pass from discharge with orifice Plan 12 Single seals - by-pass from discharge with strainer & orifice

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## **MECHANICAL SEAL PIPING PLANS - OGIPCo**

API Plan 54 Pressurized external barrier fluid system supplying clean liquid for an arrangement 3 pressurized dual seal.

The barrier liquid is maintained at a pressure greater than seal chamber pressure and is circulated by an external

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pump or pressure system. A From external source B To external source

### **API Plan 54 - EN**

Simple plans can use the suction or discharge pressure of the pump to move fluid across the seal faces – these plans will simply have piping with orifices leading from a port to the seal chamber.

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Connecting to the discharge port will allow for the high pressure discharge fluid to travel to the seal chamber and re-enter the process.

### **What's a Flush Plan, And Why Should I Care?**

Piping Plans A mechanical seal performs best when used in a clean environment

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of cool lubricating fluid. The exact requirements of clean, cool and lubricating vary with the design and materials of the mechanical seal. For non-optimum conditions, piping plans provide a means of adjusting the seal environment.

### **Piping Plans | Seal FAQs**

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In LIDERING we have an extensive range of mechanical seals for all types of pumps: from seals for domestic pumps to seals for process pumps, specific in complex applications in the chemical and petrochemical industry. In addition, we offer a wide range of spare parts compatible with the originals of the main manufacturers of pumps (RMS).

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## **API Plans - Lidering Safe Industry**

John Crane is a part of. bringing technology to life. At Smiths we enable modern life. We make the world safer, healthier and more efficient. If you look closer, you will see us.

## **John Crane Brochures**



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A Plan 23 is also a “closed” system. Fluid circulates around from the seal chamber to the seal cooler and back without a natural means for venting gases or vapor from the system. All Plan 23 s must be designed with a high point vent (or vents) to fully remove all vapor from the seal chamber, piping, and seal cooler prior to operation ...

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## **Pros & Cons of Mechanical Seal Piping Plans: Plan 21 and ...**

Standard flush plans for mechanical seal  
PLAN 01 See Figure 1. Integral (internal)  
recirculation is from pump discharge to  
seal. Recommended for clean pumpage

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