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PLAN 53B | Rotating \u0026amp; Static

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Static Equipments

MECHANICAL SEAL API PLAN 62 |  
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Dual Seals - Plan 52 vs. Plan 53 for

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SGL Series Sliding Vane Pumps -  
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Mechanical seal theory Part 1-



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*Plans and Supply Systems in*

*accordance with API 682 4th Ed*

~~MECHANICAL SEAL API PLAN 03 |~~

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~~Matt Ridley on How Innovation Works~~

~~8/31/20~~

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Piping Plan Description Plan 01 Single

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## Mechanical Seal Piping

Plans John Crane  
Seals - Internal Flush Plan 02 Single  
Seals - No Flush, Large Open Bore  
Plan 11 Single Seals - By-Pass From  
Discharge With Ori?ce Plan 12 Single  
Seals - By-Pass From Discharge With  
Filter & Ori?ce Plan 13 Single Seals -  
Flush Thru Seal Chamber Thru Ori?ce  
To Suction

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## Mechanical Seal Piping Plans Companion Booklet

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

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Special features to enhance circulation or venting in the machinery. Plan 55 is an externally circulated buffer (unpressurized) fluid for Arrangement 2 seals.

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plans 52, 53A, 53B, 53C, 54, 55.

Quench Seals. plans 62, 65A, 65B, 66A, 66B. Gas Seals. plans 72, 74, 75, 76. Flowserve recognizes that one of the most effective ways to achieve long, uninterrupted mechanical seal life is to create a healthy environment

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

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Mechanical Seal Piping Plans -  
Flowserve

Mechanical Seal Piping Plans. Plan 23  
Plan 53B Plan 02 Plan 31 Plan 53C  
Plan 11 Plan 14 Plan 54 & 55 Plan 13  
Plan 52 Plan 21 Plan 32 Plan 53A  
Plan 41. Mechanical Seal Piping  
Plans. Single Seals Dual Seals. Plan



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## Mechanical Seal Piping

Plan 62 Plan 65A Plan 72 Plan 74 Plan 75  
Plan 76. FTA157eng REV 12-14.

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Mechanical Seal Piping Plans -  
Flowserve Corporation

API Plans for Mechanical Seals Since  
they were first formulated, seal piping

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Plans have been maintained and remodeled by the American Petroleum Institute (API). Current plans are based on API 682 and are sorted numerically. In some cases, designated letters are also used to differentiate between plans.

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API Seal Piping Plans for Mechanical Seals | Momentum Systems  
or solidifying in external piping .  
Advantages: Same concept as Plan 11, without the external piping . Raises the seal chamber pressure . Vents the seal chamber during flooding of

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## Mechanical Seal Piping

horizontal pumps . Disadvantages:

The seal chamber is not self-venting in vertical applications . May only be used with clean fluids .

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MECHANICAL SEAL PIPING PLANS

A few simple principles can guide you

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## Mechanical Seal Piping

to 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 ...

The exact requirements of clean, cool  
and lubricating vary with the design  
and materials of the mechanical seal.  
For non-optimum conditions, piping

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## Mechanical Seal Piping

Plans provide a means of adjusting the seal environment. Since seal piping plans were developed, maintained and revised by the API, it would seem appropriate to include piping plans under the API 682 menu. However, piping plans are so important that having a dedicated menu seems more

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appropriate. Piping plans and their names/labels date back to ...

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Piping Plans | Seal FAQs

API Piping plans help to ensure good conditions for mechanical seal operation as well as improving safety



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

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API Piping Plans - Page 1 | AESSEAL  
Most common Plans and Sealing  
Systems Plan 53B Plan 53C Plan 52  
Used where the pumped product is  
harmful / hazardous and / or buffer  
fluid may not contaminate the product.  
External reservoir at pressure below

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## Mechanical Seal Piping

Plans John Crane seal chamber pressure providing buffer liquid forced circulation.

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API 682 Most common Plans and Sealing Systems

John Crane is an American company, now a subsidiary of Smiths Group and

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Provider of engineered products and services including mechanical seals, couplings, hydro-dynamic bearings, seal support systems, filtration systems and artificial lift.

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Plan 21 Single seals – by-pass from discharge through orifice & heat exchanger. Plan 22 Single seals – by-pass from discharge through strainer, orifice & heat exchanger. Plan 23 Single seals – closed loop circulation through heat exchanger. Plan 31 Single seals – by-pass from

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discharge through abrasive separator.

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## Mechanical Seal Piping

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 ... Mechanical Seal ...

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Session 3: Mechanical Seal Piping  
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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

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“To check out mechanical seal flushing arrangements and piping plans, I have consistently found this to be the most useful and permanent

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Heinz P. Bloch P.E. Independent  
Professional Engineer

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## Mechanical Seal Piping

API Piping Plan Booklet | AESSEAL

Different types of pumps mechanical seal piping plans are detailed in API 682 or ISO 21049 standards. Pump seal piping plans for single seals Most common types of pump seal piping plans for single seals are discussed in following paragraphs. Common types

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Plans of dual seals are addressed in another article.

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Common types of pumps mechanical seal piping plans ...

Piping plans help keep mechanical seals running cool and clean, promote

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Plans for safe handling of dangerous fluids, and extend the operational availability of rotating equipment. This reference book provides a concise summary of the most essential piping plans used successfully in today's process plants.

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Mechanical Seal Piping Plans - A.R. Thomson

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.

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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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