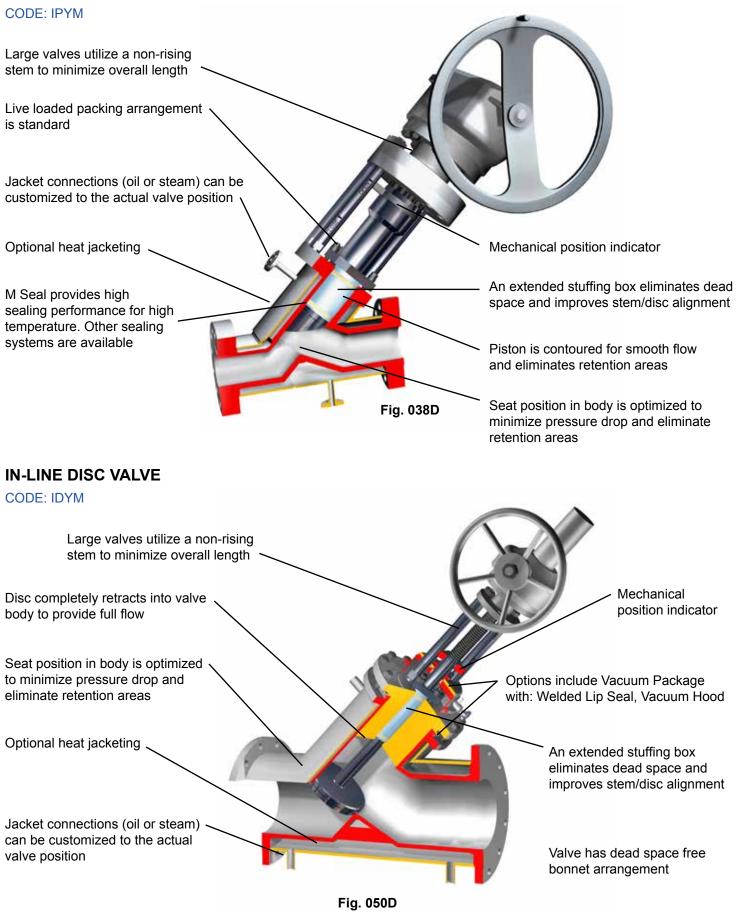
ID & IP SERIES

IN-LINE DISC AND PISTON VALVES



Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it **M SEAL IN-LINE PISTON VALVE**



Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

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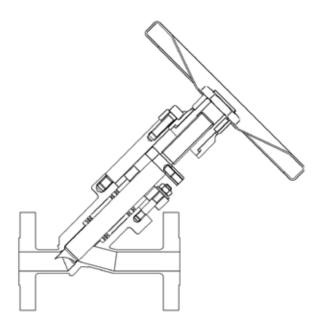
Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it range of positive sealing systems like M Seal, M Ring Seal and M Control, these valves provide superior in-line tightness. When opening the piston or disc, it retracts completely into the valve body providing an unrestricted full flow. In combination with our maximized port sizes, these designs offer maximum flow capacity. They are available in a wide choice of options including materials of construction, sealing systems to atmosphere, actuators, full jacketing and a vacuum package.

Typical applications for in-line piston valves is to provide a dead space free valve for high viscosity products or abrasive slurries, especially in combination with high pressures and high temperatures.

BODY ARRANGEMENTS

The Strahman In-Line valve has several styles available:

- Figure **037** for small sizes Y pattern piston valves with a rising stem design.
- Figure **038** for large sizes Y pattern piston valves with a non-rising stem design.
- Figure **050** for Y disc pattern disc valves with rising or non-rising stem.
- Figure 055 for angle pattern disc valves with rising or non-rising ster





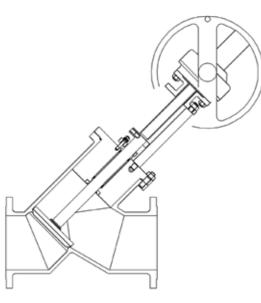
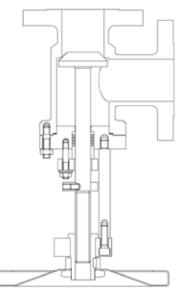
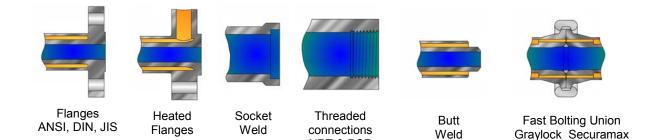


Fig. 038



LINE AND BRANCH OPTIONS



NPT & BSP

ACTUATION OPTIONS



Hand Wheel



Double or single acting Air Cylinder



Bevel Gear

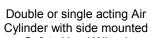


Double or single acting Air Cylinder with Safety Hand Wheel



Electric Actuator







Air Motor



Hydraulic Cylinder

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DESIGN CODE AND CONSTRUCTION

- Design standard compliant with ASME B16.34
- International standards include ANSI, DIN, JIS, API etc.
- · Wide range of material selections including carbon steel / stainless steel / Titanium / Hastelloy / Duplex / Monel / Tantalum / Zirconium
- · Fabricated, cast, forged and bar stock designs
- · Combinations of fabricated, sand and investment castings, and bar stock available

SURFACE FINISH

 For polymer applications, Strahman recommends a surface finish of 300 (Ra 0.4) for all parts are in contact with the medium

QUALITY ASSURANCE AND TESTING

ISO 9001 compliant

• CU TR 010

- PED / ATEX / CE marking
- CU TR 032

- TUV / HPO / TA Luft
- Standard testing procedures

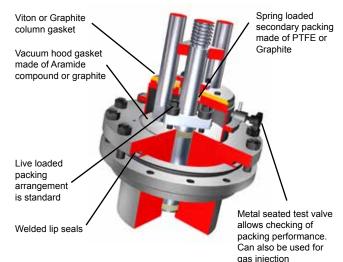
RANGE DEFINITION

ID Manufacturing Range	PN 10	PN 16	PN 20-150 lbs.	PN 25	PN 40	PN 50 300 lbs.	PN 64 400 lbs.	PN 100 600 lbs.	PN 150/160-900 lbs.	PN 250 - 1500 lbs.	PN 320	PN 420 - 2500 lbs.	PN 630 - 4500 lbs.	IP Manufacturing Range	PN 10	PN 16	PN 20-150 lbs.	PN 25	PN 40	PN 50 300 lbs.	PN 64 400 lbs.	PN 100 600 lbs.	PN 150/160-900 lbs.	PN 250 - 1500 lbs.	PN 320	PN 420 - 2500 lbs.	DN 630 - 4500 lhe
3∕8" - DIN10														³∕₀" - DIN10													
½" - DIN15														½" - DIN15													
¾" - DIN20														3⁄4" - DIN20													
1" - DIN25														1" - DIN25						Î							
1 ¼" - DIN32														1 ¼" - DIN32													
1 ½" - DIN40														1 ½" - DIN40													
2" - DIN50														2" - DIN50													
2 ½" - DIN65														2 ½" - DIN65													
3" - DIN80														3" - DIN80													
4" - DIN100														4" - DIN100													
5" - DIN125														5" - DIN125													
6" - DIN150														6" - DIN150													
8" - DIN200														8" - DIN200													
10" - DIN250														10" - DIN250													
12" - DIN300														12" - DIN300													
14" - DIN350														14" - DIN350													
16" - DIN400														16" - DIN400													
18" - DIN450														18" - DIN450													
20" - DIN500														20" - DIN500													
24" - DIN600														24" - DIN600													
28" - DIN600																											
32" - DIN600																											
36" - DIN600																											
40" - DIN600																											
44" - DIN600																											

Typical Packing Materials:

 PTFE Bottom ring material is selected with a PTFE / Aramide Braid differential hardness · Carbon / Graphite Braid from the piston to prevent piston damage Graphite Braid PTFE / Aramide Braid + Graphite Lamellar + Expanded Graphite Pure Graphite Live loaded packing arrangement minimizes maintenance Back seat arrangement is standard on this valve Optional 1/4 inch NPTF can be used for leak detection or inert gas injection to avoid leakage to atmosphere by All packing arrangements creating an over pressure use a lantern to improve piston guiding and avoid

For valves on full vacuum service, Strahman offers a special **vacuum package** that maintains tightness to atmosphere. Valves with this package are usually equipped with an **M Ring Seal** design as process sealing. The system uses a replaceable aluminum or nickel seal ring and provides high vacuum performance. This special **vacuum package** provides zero leakage between atmosphere and process.



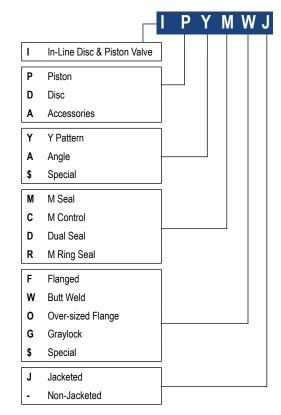
STANDARD BODY GASKET RANGE

- PTFE
- · Aramide / Nitrile
- · Carbon / Nitrile
- · Laminated Graphite
- · Laminated Graphite / 316

dead space in body cavities

- Spiral Wound 316L / PTFE
- Spiral Wound 316L / Graphite
- · Spiral Wound 321 / Graphite
- · Spiral Wound Inconel / Graphite
- · Spiral Wound Titanium / Graphite
- · Welded Lip Seals

VALVE CODING SYSTEM



Valve body

M SEAL

This sealing system offers a wide range of material combinations selected to create a differential hardness between body and plunger seat. The maintenance friendly design of the **M Seal** system provides long and reliable valve performance and is suitable for almost all process conditions.

- Temperature: Min.: -200°C / -330°F Max.: 815°C / 1500°F
- Pressure: 630 bar / 9000 PSIG

M-CONTROL

The **M-Control** system provides customized flow characteristics to regulate a specific laminar flow with high viscosity. The system uses a piston with a specific shape to control flow and/or pressure. The **M-Control** uses the **M Seal** system.

- Temperature: Min.: -200°C / -330°F Max.: 815°C / 1500°F
- Pressure: 630 bar / 9000 PSIG

DUAL SEAL

The **Dual Seal** is a unique double sealing system that works as a piston operating within a cylindrical seat. Unlike other designs, the secondary resilient seal ring is mounted on the piston and will expand after metal to metal contact of the primary seat ring. The design provides a true metal to metal seal in case of resilient seat failure.

- Temperature: Min.: -50°C / -60°F Max.: 200°C / 390°F
- Pressure: 250 bar / 3550 PSIG & full vacuum

SEALING SYSTEMS DISC VALVES

M SEAL

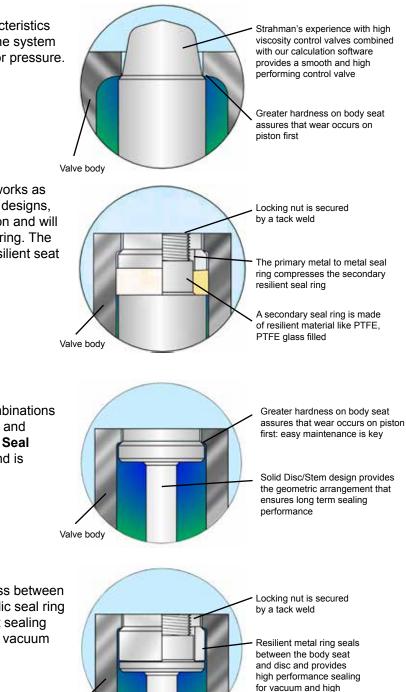
This sealing system offers a wide range of material combinations selected to create a differential hardness between body and plunger seat. The maintenance friendly design of the **M Seal** system provides long and reliable valve performance and is suitable for almost all process conditions.

- Temperature: Min.: -200°C / -330°F Max.: 815°C / 1500°F
- Pressure: 630 bar / 9000 PSIG

M RING SEAL

The **M Ring Seal** is also based on a differential hardness between the body and the piston surface. The replaceable metallic seal ring made of aluminum, nickel or titanium provides excellent sealing performance especially in applications that combine full vacuum and temperatures above 200°C.

- Temperature: Min.: -200°C / -330°F Max.: 450°C / 840°F
- Pressure: 250 bar / 3550 PSIG & full vacuum



Greater hardness on body seat

assures wear on piston first:

easy maintenance is key

One piece piston design

minimizes dead area

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Valve body

temperature applications

SAMPLING VALVES

Strahman has a full line of sampling valves that produce live samples without exception. Our sampling valves unique designs prevent failure caused by sediment or clogging.

DRAIN VALVES

Strahman Drain Valves are designed to prevent clogging. They are ideal for use in liquid and gas service or with slurries, polymers, and high viscosity fluids that tend to solidify at room temperature.

LINE BLINDS

Strahman Line Blinds provide zero leakage down stream and total isolation on process pipelines, vessels and maritime applications. No pipeline movement is required when blind position is changed.

AUTOMATED VALVES & FIRE SAFE PRODUCTS

Strahman automated valve packages with floating ball valves and resilient seated butterfly valves come complete with electric or pneumatic actuators for a wide array of industrial applications. Additionally, a full suite of API 607 fire safe valve products are offered as actuated units or to be used in conjunction with our FM approved thermal shut-off assemblies. Resettable Emergency Block Valves (R-EBV) are also available for the oil & gas and chemical industries.

WASH DOWN EQUIPMENT

Strahman offers a full line of mixing units, hose stations, hoses, nozzles and wash down accessories. Our wash down line is designed for industrial use and is used in a wide variety of industries including food, beverage, pharmaceutical, chemical and other applications.

> Please contact your local Strahman representative for further details or visit our website: www.strahmanvalves.com

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