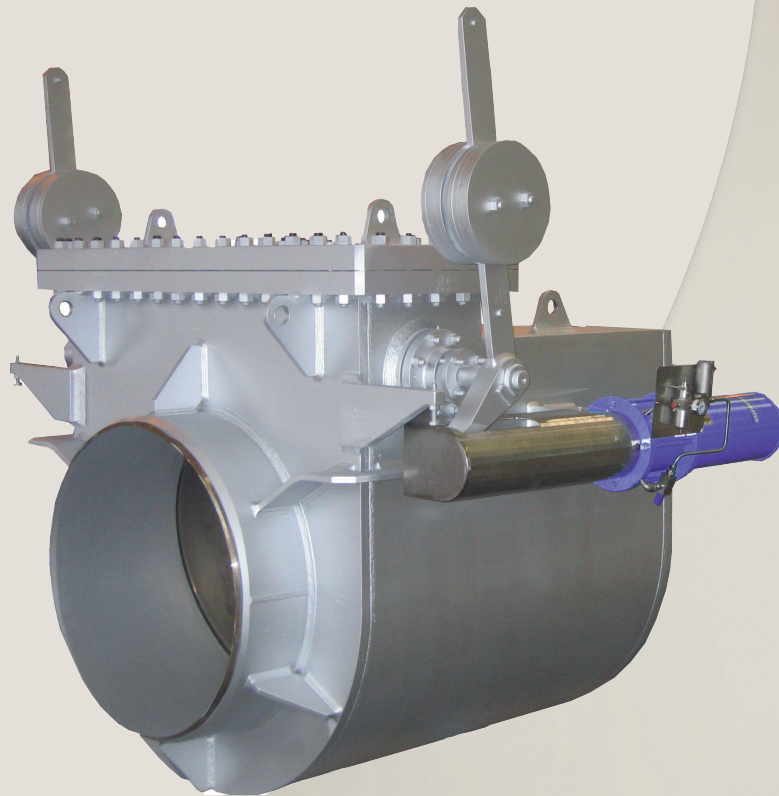




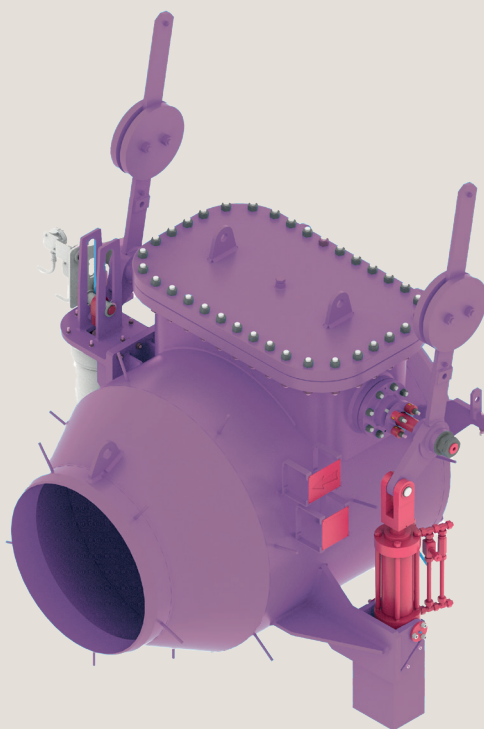
Process Automation

IMI Remosa

Special Check Valves



Breakthrough
engineering for
a better world



Fluid Catalytic Cracking Special Check Valves

IMI Special Check Valves prevent back flow (reverse flow), and are essential to protect critical equipment such as the main air blower (MAB) or the regenerator. Here are some key features:

Pneumatic Cylinder with Spring Return: Helps in smooth operation.

Oil Dashpot: Prevents undue swinging, chattering, and vibrations of the valve disc.

External Lever with Counter Weight: Balances the valve disc.

Stuffing Boxes with Self-Lubricated Bushings: Reduces friction and wear.

Self-Aligning Disc and Disc Arm: Ensures proper alignment and operation.

Free Swinging Disc: Allows for smooth movement.

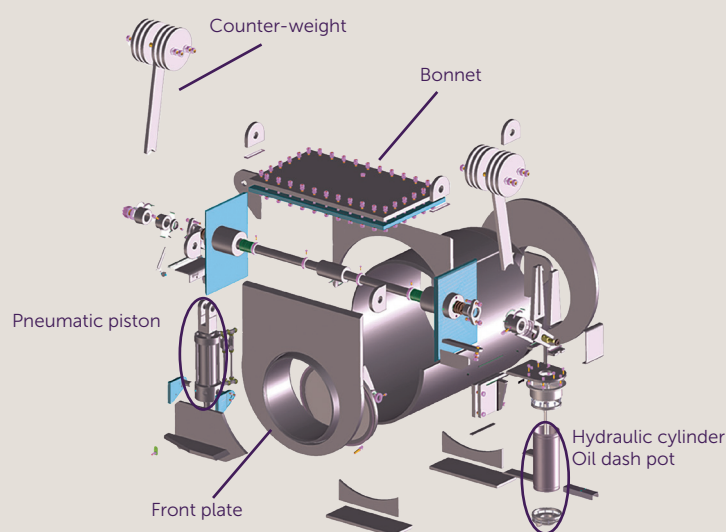
Bolted Bonnet Design: Facilitates maintenance without removing the valve from the line.

These features make IMI Check Valves highly reliable and customisable to fit specific plant requirements.

Product specifications

- Pneumatic cylinder with spring return
- Oil dashpot to prevent undue swinging, chattering or vibrating of the valve disc
- External lever with counter weight
- Self-aligning disc and disc arm
- Stuffing boxes with oilless bushing made of bronze with graphite insert.
- Seating area protected by hardfacing materials

Exploded view



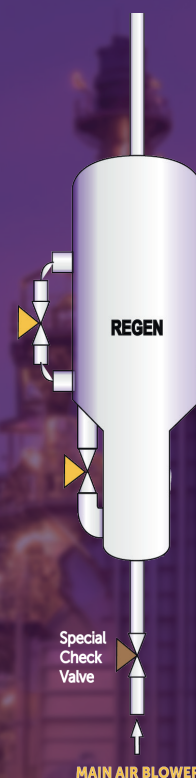
Benefits

IMI Special Check Valves (SCVs) are well known for their high reliability and special features, making them an excellent choice for preventing backflow in critical applications such as fluid catalytic cracking (FCC) processes.

SCVs are engineered to protect compressors from backflow, ensuring safe and efficient operation. One of the standout features of IMI's SCVs is their robust construction. The valve body is fabricated from durable materials (carbon steel or stainless steel), which ensures long-lasting performance even in demanding environments. This durability is further enhanced by the valve's design, which includes a pneumatic cylinder with spring return, an oil dashpot to prevent undue swinging or vibrating of the valve disc, and an external lever with a counterweight.

Maintenance is also made easy thanks to the bolted bonnet cover, allowing for straightforward access to the valve internals without the need to remove the valve from the line. This feature significantly reduces downtime and maintenance costs, making the valves more efficient and cost-effective over their lifespan. Additionally, IMI offers customisation options for valve body's and internals' materials, allowing the valves to be tailored to specific requirements and environmental conditions. This adaptability ensures that the valves can perform optimally in a wide range of industrial applications. Overall, IMI's SCVs combine reliability, durability, and ease of maintenance with customisable features, making them a versatile and dependable choice.

Application example



Process Automation

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