

LTR 43 TECHNICAL DETAILS

Valve Size	NPS 3 to NPS 84
Pressure Rating	ANSI Class 150 to 2500
End Connections	 Lugged Flanged Wafer Standard Butt-weld and Top Entry Butt-weld
Materials	 Carbon Steel (A216 WCB WCC) Stainless Steel (A351 CF8M) Low/High Temperature Steels (LCC/LC3/WC6/WC9) Special Alloys (Duplex, Monel, Titanium, etc.)
Temperature Range	-320 to 1292°F (-196 to 700°C)
Leakage Rate	Class VI according to ANSI/FCI 70-2 , API 598
Fire Safe	According to API 607, API 6FA and ISO 10947

GENERAL INDUSTRIES

Chemical/Petrochemical, Oil & Gas (upstream, midstream, & downstream), Refining, Power generation, Industrial gases, Steel production, Desalination plants, Renewable energy (solar, geothermal, and hydro), Shipyard, Aerospace, Cryogenic, etc.

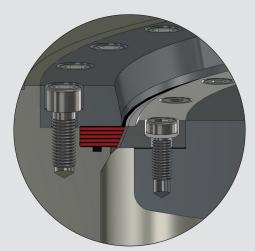
APPLICATIONS

Gas: Natural gas, Syngas, Oxygen, Hydrogen, Nitrogen, Air, Carbon dioxide, Flue gas, Coke oven gas, Flare gas, Sour gas, Acidic gas, Steam (saturated and superheated), Ethylene, Methane, Ammonia, etc.

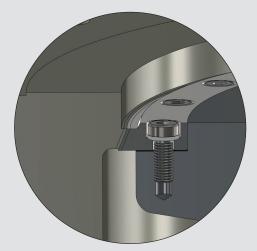
Liquid: Hydrocarbon (diesel, crude oil, naphtha, jet fuel, kerosene, gasoline etc.), Sea water, Waste water, Heat transfer fluid, Thermal oil, Molten salt, etc.

LTR 43 TRIM DESIGN

- Exchangeable and easy to replace seat & seal ring
- Non-rubbing, metal to metal with zero leckage
- Available with a hardfaced seat ring for special applications



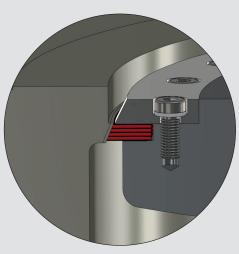
LTR 43-2



- Resilient metal seal ring ensures perfect tightness
- The standard solid and optionally hardfaced seal ring is easy to replace
- Suitable for controlling applications with critical medias

LTR 43-3

- High reliability with zero bidirectional leackage
- With a robust integral-to-body valve seat
- Hardfaced seat e.g. with Stellite® grade 21 overlays providing excellent durability.



LTR 43-4

LTR 43 TECHNICAL FEATURES

Excellent Controllability

Specially machined and polished shaft reduces friction, hysteresis, and torque requirement.

Replaceable Body Seat

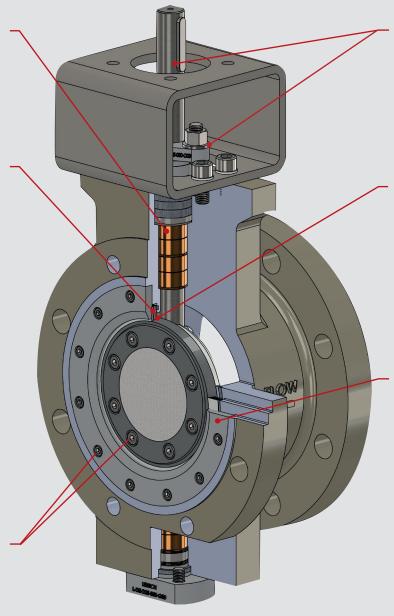
In addition to the disc seal, the body seat can be easily replaced in the field. Many competing triple offset butterfly valve designs utilize an integrated seat, requiring repairs to be done in a specialty machine shop.

Large Sealing Surface Area

The large sealing surface of the seat and disc seal ring guarantee bidirectional tight shutoff.

Secured Fasteners

Internal fasteners are secured with special washers. Ensuring that the sealing system is not compromised while maintaining a user friendly and serviceable design



Retained Shaft

An external shaft retainer located outside of the process medium increases product safety by preventing shaft blow-out.

Cryogenic & High Temperature

The laminated seat design provides for slight flexibility, this maintains a tight shut-off even in extremely low or high temperatures.

Replaceable Disc Seal ring

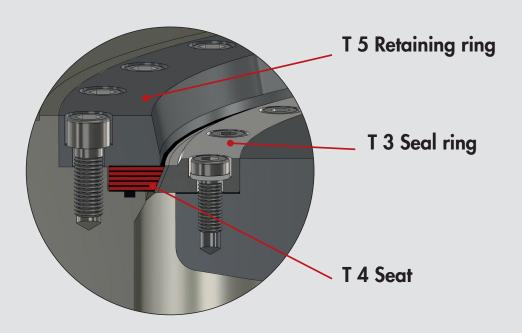
Like the body seat, the disc seal ring is also field replaceable. This allows for a dependable tight seal and a longer service life.

Large Shaft and Shaft Bearings

A large shaft and replaceable shaft bearings provide long term reliability and reduced torque requirements.

LTR 43 ADVANTAGES





LTR 43-2 the standard solution

- Seat (T4) is protected and covered against particels of the flow in the valve body
- Seat and seatring can easily be removed and replaced, sealing area of the solid seal ring (T3) can be stellited
- Valve disc can be thinner (higher CV value)
- Machining of both sealing elements (seat and seal ring) can be easely controlled and monitored
- Sealing combination (T3&4) can be shipped around the world at low costs
- No expensive transport, shut down time and remachining of body seat at manufacturer location is not necessary

SAMSON AT A GLANCE



STAFF

- Worldwide 4,500
- Europe 3,700
- Asia 600
- Americas 200
- Frankfurt am Main, Germany 2,000

INDUSTRIES AND APPLICATIONS

- Chemicals and petrochemicals
- Food and beverages
- Pharmaceuticals and biotechnology
- Oil and gas
- Liquefied Natural Gas (LNG)
- Marine equipment
- Power and energy
- Industrial gases
- Cryogenic applications
- District energy and building automation
- Metallurgy and mining
- Pulp and paper
- Water technology
- Other industries

PRODUCTS

- Valves
- Self-operated regulators
- Actuators
- Positioners and valve accessories
- Signal converters
- Controllers and automation systems
- Sensors and thermostats
- Digital solutions

SALES SITES

- More than 50 subsidiaries in over 40 countries
- More than 200 representatives

PRODUCTION SITES

- SAMSON Germany, Frankfurt, established in 1916
 Total plot and production area: 150,000 m²
- SAMSON France, Lyon, established in 1962 Total plot and production area: 23,400 m²
- SAMSON Turkey, Istanbul established in 1984
- Total plot and production area: 11,100 m²
- SAMSON USA, Baytown, TX, established in 1992
 Total plot and production area: 20,000 m²
- SAMSON China, Beijing, established in 1998
- Total plot and production area: 47,000 m²
- SAMSON India, Pune district, established in 1999 Total plot and production area: 28,000 m²
- SAMSON Russia, Rostov-on-Don, established in 2015
 Total plot and production area: 24,000 m²
- SAMSON AIR TORQUE, Bergamo, Italy
- Total plot and production area: 27,000 m²
- SAMSON CERA SYSTEM, Hermsdorf, Germany Total plot and production area: 14,700 m²
- SAMSON KT-ELEKTRONIK, Berlin, Germany
- Total plot and production area: 1,100 m²
- SAMSON LEUSCH, Neuss, Germany
- Total plot and production area: 18,400 m²
- SAMSON PFEIFFER, Kempen, Germany
- Total plot and production area: 20,300 m²
- SAMSON RINGO, Zaragoza, Spain
- Total plot and production area: 19,000 m²
- SAMSON SED, Bad Rappenau, Germany Total plot and production area: 10,400 m² SAMSON STARLINE, Bergamo, Italy Total plot and production area: 27,000 m²
- SAMSON VDH PRODUCTS, the Netherlands Total plot and production area: 12,000 m²
- SAMSON VETEC, Speyer, Germany Total plot and production area: 27,100 m²

Internet: www.samloop.com

E-Mail: samloop@samsongroup.com



© All rights reserved LTR43FLY-6 Nov. 22

All data subject to change without notice