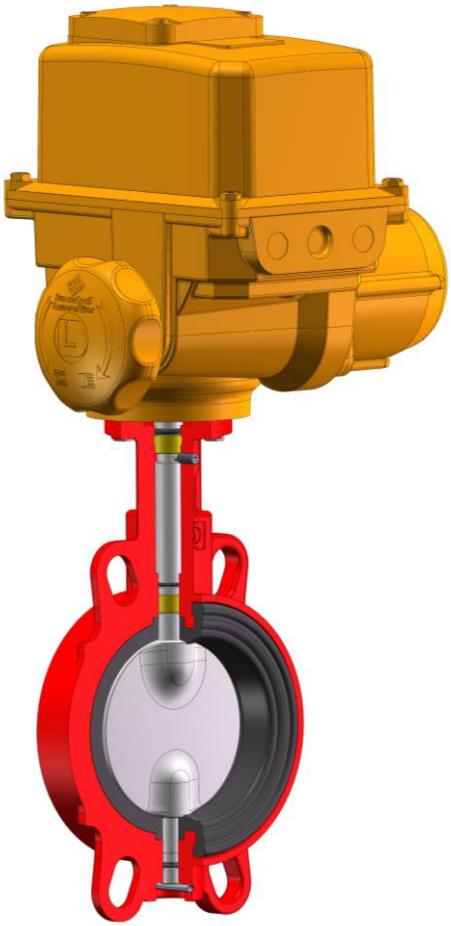
THERMO-LINE

HIGH TEMPERATURE VALVE

THERMO-LINE butterfly valves are specially designed for high temperature applications. With 130 years experience in this field, and with our continuous development efforts, Buracco guarantees reliability, perfect shut-off, durability as well as significant energy savings.

TECHNOLOGY

- ✓ **Notched** aluminium hand lever, can be **locked out, ergonomic** design
- ✓ Plate **standardised** in accordance with EN-ISO 5211
- ✓ **Epoxy** coated body for an **excellent corrosion resistance**
- ✓ Non-ejectable stem for **optimum security**
- ✓ High collar for insulation
- ✓ Hollow neck to **prevent seizing**
- ✓ **Self-lubricating bearings** for an **ideal shaft coaxiality** and **optimized torque**
- ✓ Seat anchored in the body and self-centering disc guarantee a **low and constant torque** and a **durable seal**
- ✓ Moulding and spherical machining of the seat / valve body contact zone for a **perfect seal**
- ✓ Seat bossed at valve stems to eliminate the risk of external leaks
- ✓ Secondary O-rings for **additional safety**



Profiled disc for an **increased flow rate coefficient (Kv)** (*)

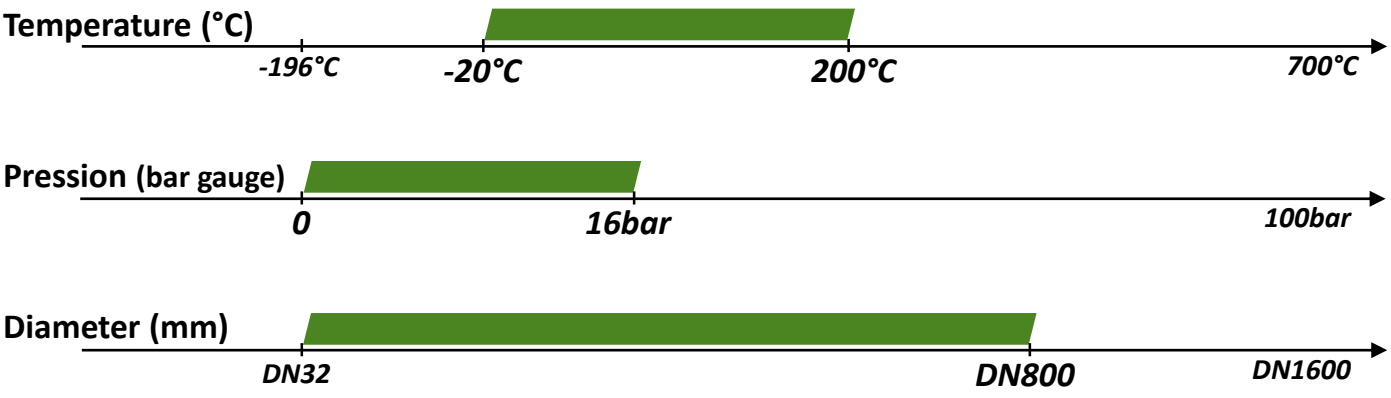
Ductile iron body as standard for **increased resistance**

100% product testing to **guarantee performance**

A **premium service** through customer liaison and technical assistance

(*) Depending on operating conditions, the annual energy savings can be ***higher than the cost of the valve.***

PERFORMANCE



The maximum pressures and temperatures depend on the pressure/temperature relationship and type of fluid.

CONSTRUCTION

Body	DUCTILE IRON ENJS1030 + EPOXY					
Liner	VITON®		SILICONE		STEAM SILICONE	
Disc	INOX A351 CF8M		INOX A351 CF8M		INOX A351 CF8M	
Body type	Wafer	Lug	Wafer	Lug	Wafer	Lug
Operation type	Aluminium hand lever, manual gear box, pneumatic and electric actuators					

Design

- Designed in accordance with standard EN 593
- Face-to-face in accordance with standard EN 558+A1 base 20

Seal

- In accordance with standard EN 12266-1 Rate A

Approvals

- PED 2014/68/UE

Main options

- ATEX construction
- Order conformity certificate / material certificate / pressure test certificate in accordance with standard EN 10204 types 2.1, 2.2 and 3.1
- ...

Wafer

Lug

Aluminium hand lever operation

Electric actuator

Manual gear box unit operation

Pneumatic actuator

CHARACTERISTICS

Components	Material	Description	Benefit
Body	DUCTILE IRON ENJS1030	Spheroidal graphite ductile iron has a **superior mechanical strength** than lamellar graphite cast iron.	**Increased safety for personnel and equipment**
Coating	EPOXY	The EPOXY coating guarantees **excellent corrosion resistance**.	**Maintains product integrity and facilitates cleaning**
Liner	VITON ®	This FPM elastomer has **strong resistance to high temperatures**.	**Optimized liner selection for durable performance**
	SILICONE	SILICONE elastomer **has good characteristics for « hot air » applications**.	
	STEAM SILICONE	This variant of SILICONE is specially formulated for **low pressure steam** working condistions.	
Disc	ASTM A351 CF8M	This grade of stainless steel has **excellent corrosion resistance.**	**Uncoated stainless steel**
Stem and Pivot	1.4021 / 1.4028 (Inox 13% Cr)	The shafts have **excellent mechanical strength** and benefit from corrosion resistance of 13% Cr stainless steel.	**Lasting integrity of the shaft line**
Bearings	COMPOSITE THERMOPLASTIQUE	**Corrosion resistant, self-lubricating** bearings with **excellent mechanical characteristics**	**Torque stability and lasting of the shaft line**

Energy savings **33%** Average increase in Kv coefficient compared to one-piece shaft design.