BUTTERFLY GAS VALVE
COMPACT VERSION

Series ITGR

ITALPUMP
OIL BURNER PUMPS

CHARACTERISTICS

Applications:

- Suitable gas hot air, natural gas, town gas, LPG and other non aggressive fuels.
- Low leakage rate and pressure loss.
- Possibility to mount any actuator chosen by the customer.
- Possibility to mount our suggested actuator.
- Low maintenance requirements.
- **COMPACT VERSION**

FUNCTION

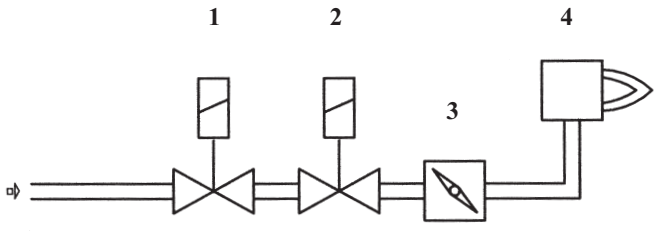
The butterfly valves series ITGR are designed for controlling the volume of gas to supply a modulating or two stage (progressive) burner. The actuating time depends on the type of actuator.

INSTALLANTION NOTES

The butterfly valve must be installed between two flanges according to EN-1092. The length of the inlet and outlet section should be 2 × DN.

When built into a vertical pipe, dirt may accumulate on the stop bar, which may prevent the valve from closing properly.

Check for leak and function after installation.



Legend:

1 - Gas valve
2 - Gas valve
3 - ITG butterfly valve
4 - Burner

TECHNICAL DATA

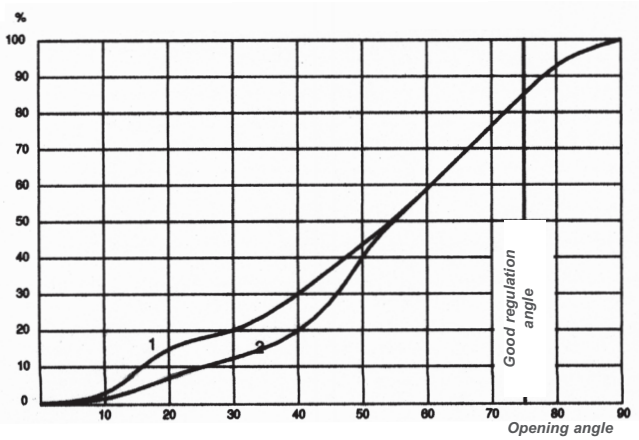
ITGR

Max operation pressure	2000 mbar (200 kPa)
Ambient temperature	-20°C to +70°C
Adjusting angle	max.90°
Housing material	alluminium
Shaft material	stainless steal
Seals material	NBR *(viton on request)*

Legend:

***1** - Standard butterfly valve*
***2** - ITALPUMP butterfly valve*

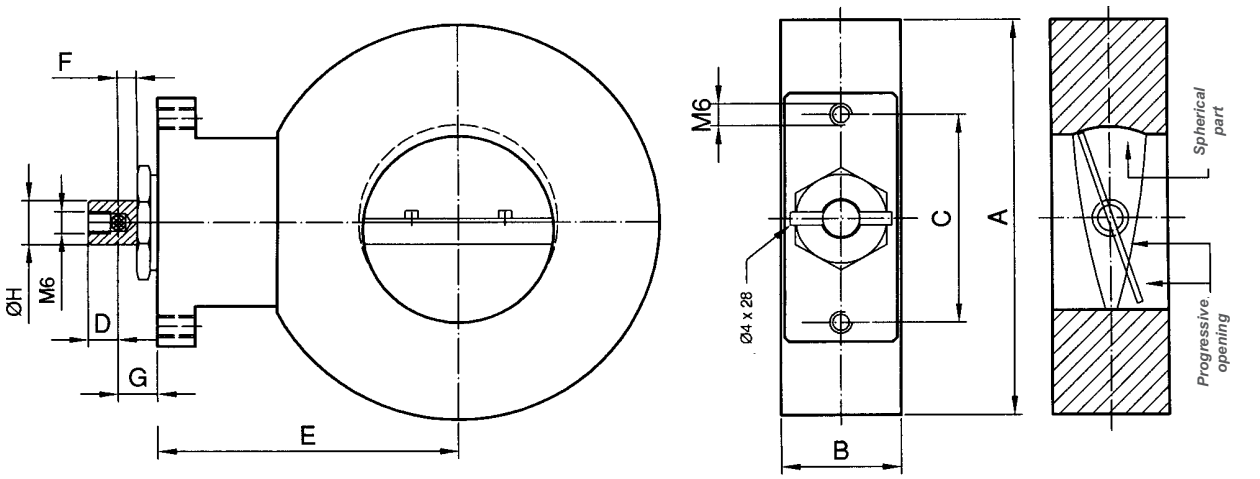
SECTION-OPENING ANGLE



The diagram shows that the curve 2, up to 40°, has a smaller section.
The smaller section make easier the calibration of the burner with high modulating ratio, especially with LPG.

NOTE: In the selection of the correct butterfly valve size you have to consider higher pressure losses grant a better regulation, so according with the line pressure avoid to select butterfly valves with pressure losses 1 - 2 mbar.

DIMENSIONS OF THE VALVE



Type	Spherical	A	B	C	D	E	F	G	H
DN 50 R	20°	105	32	60	8	77.5	4.5	9.5	12
DN 65 R	20°	125	35	60	8	87	4.5	9.5	12
DN 80 R	20°	140	40	60	8	93	4.5	9.5	12
DN100 R	20°	130	46	60	8	104	4.5	9.5	12
DN125 R	20°	190	50	60	8	118	4.5	9.5	12

IDENTIFICATION OF THE VALVE

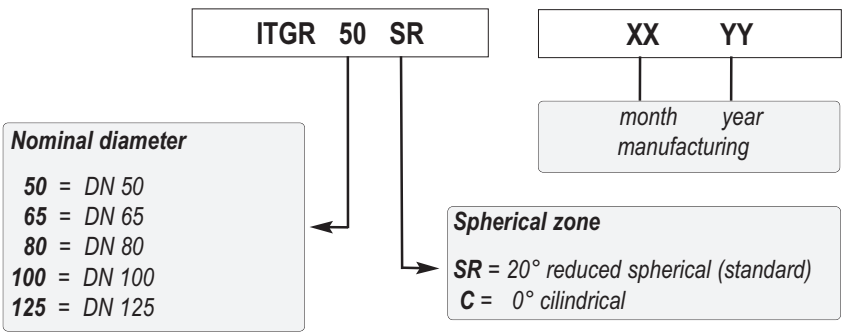
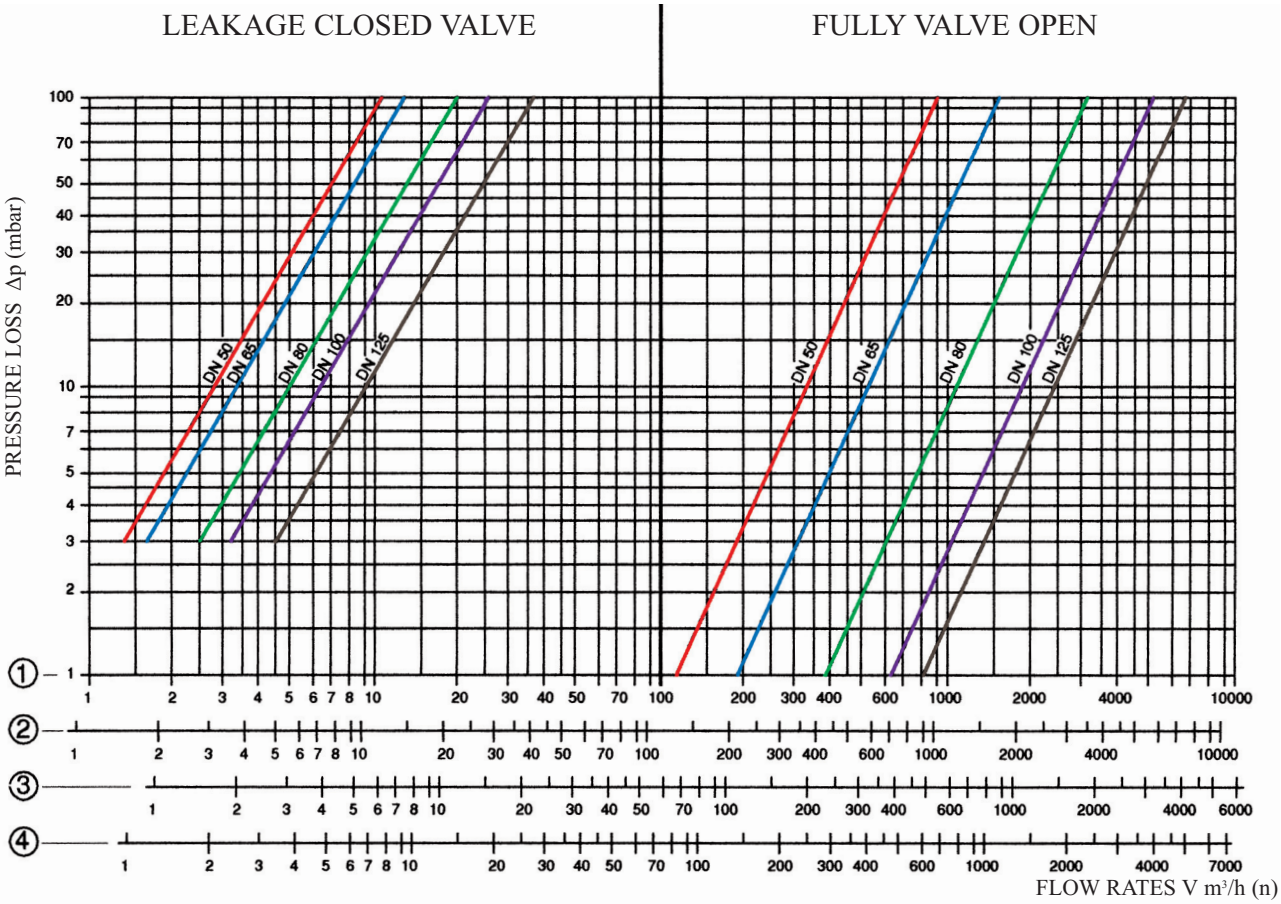
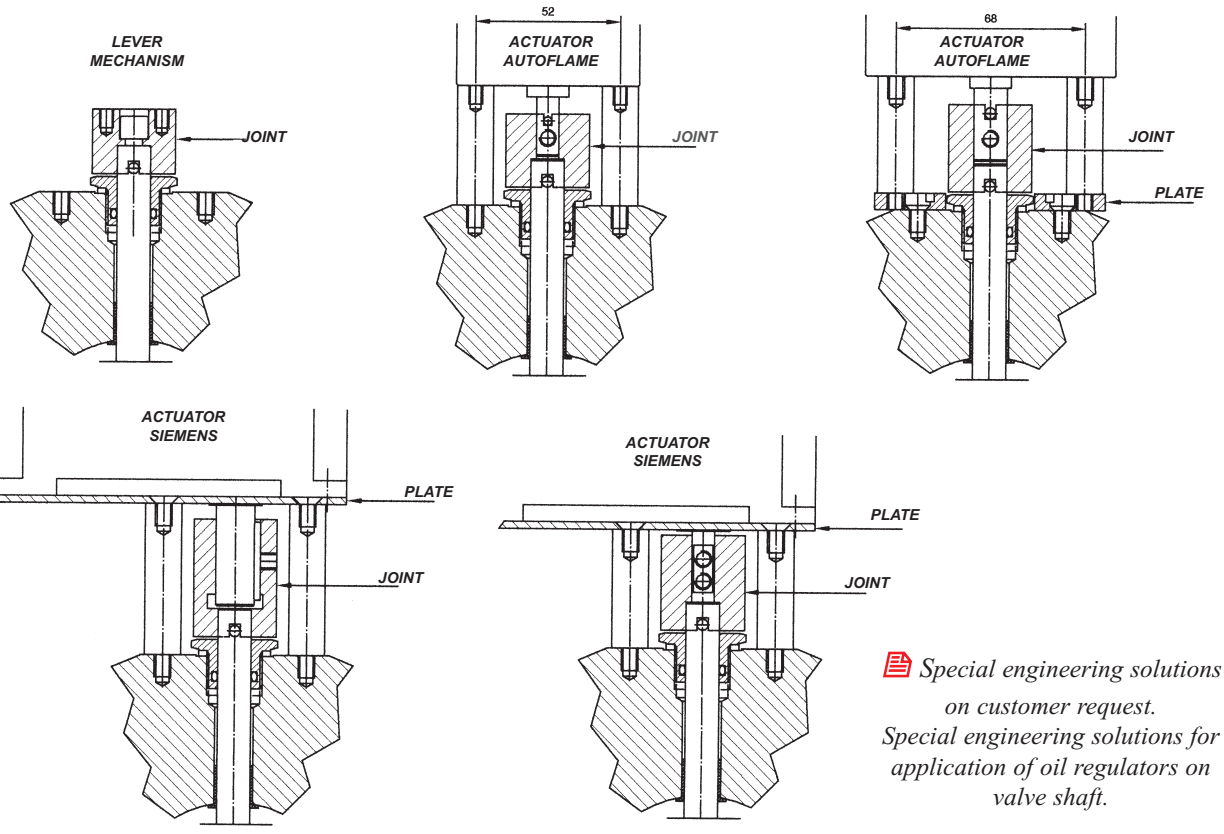


DIAGRAM OF THE VALVE



①NATURAL GAS dv = 0.62 ②TOWN GAS dv = 0.45 ③LPG dv = 1.56 ④AIR dv = 1

APPLICATIONS WITH LEVER MECHANISM AND ACTUATOR



Special engineering solutions on customer request.
Special engineering solutions for application of oil regulators on valve shaft.