

Butterfly valve

TBV series

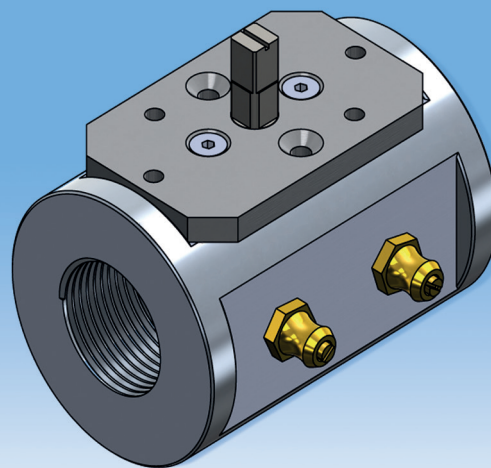
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Butterfly valves of TBV series, certified in compliance with EN 13611 standards, are suitable for use in industrial combustion systems.

They are particularly suitable for the regulation, both manual and with an electric servomotor or pneumatic actuator, of combustible gases of the first, second and third families and of air.

Threads from Rp 3/4 up to Rp 3.

They are available both with full bore and with reduced bore of one or two diameters.



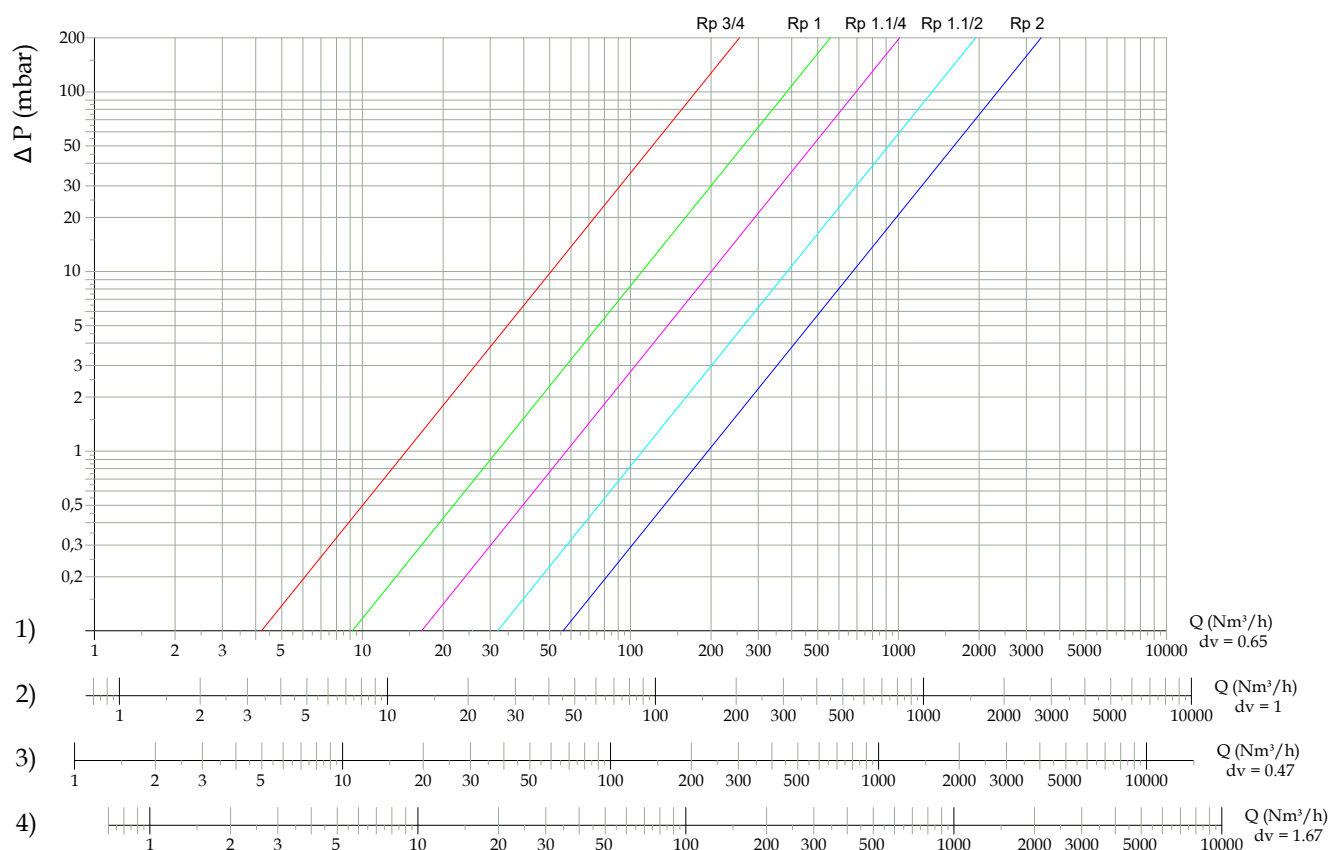
TECHNICAL DATA

Body and flanges	Aluminum alloy 6000
Stem	AISI 303 stainless steel ø 10 mm. with 7.5 mm square terminal
Butterfly disc	AISI 304
Seals	NBR or VITON (for versions up to 200°C)
Thread	from Rp 3/4 to Rp 3 according to EN 10226 standards, NPT on request
Maximum pressure	500 mbar
Temperature	-10 ÷ +60°C for gas or 200°C for air
Adjustment ratio	10:1
Valve	With bidirectional flow
Accessories	1/8" G pressure taps (on request) or caps

CHARACTERISTICS

- Compact and robust construction, machined from solid, suitable for industrial uses
- Mounting in any position
- Mechanical position indicator
- Rotation angle from 0° to 90° lockable
- Internal leakage with valve closed 1% of max kvs.
- Sealed outward with three "O" rings
- Lockable manual control lever
- 1 or 2 internal reductions compared to the nominal diameter of the valve
- Butterfly body in AISI 303 steel for special uses

FLOW DIAGRAM



dv= densità relativa all'aria
 dv= density relative to the air
 dv= densité relative à l'air
 dv= densidad relativa del aire

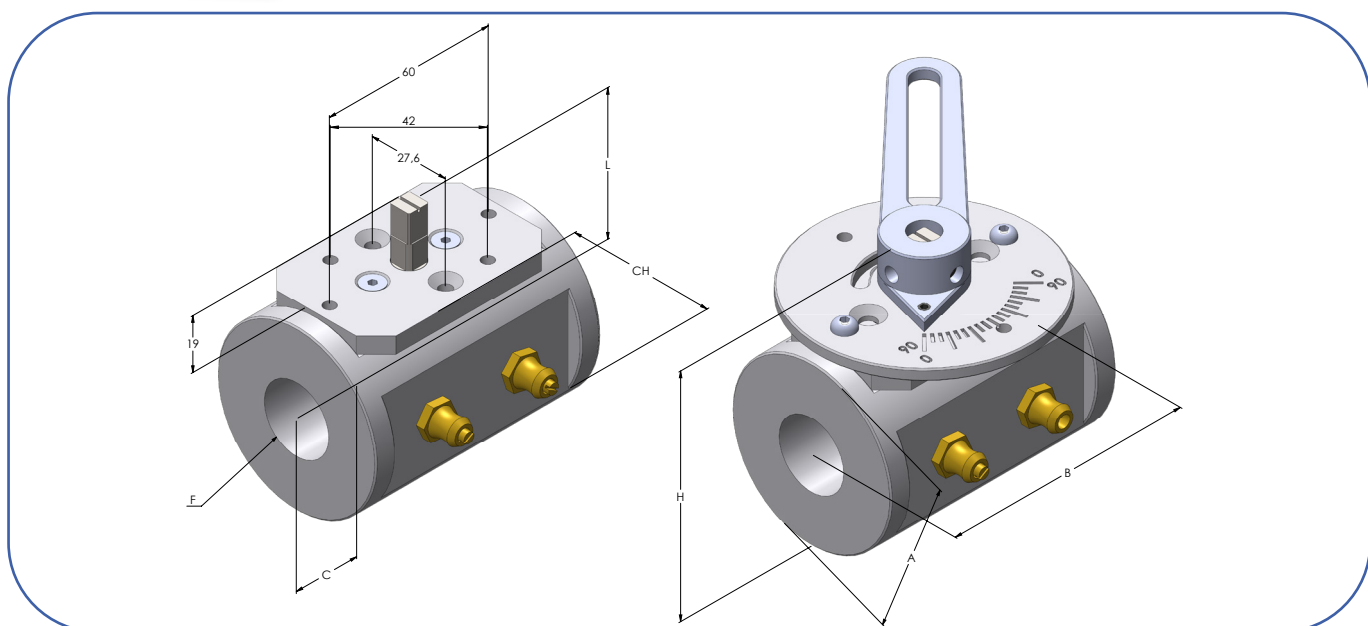
1) metano - methane - méthane - metano
 2) aria - air - air - aire
 3) gas di città - town gas - gaz de ville - gas ciudad
 4) gpl - lpg - gaz liquide - gas liquido

FLOW COEFFICIENTS

The following flow coefficients or flow factors Kvs with measurement at a temperature of 15°C

Connection	Orifice in mm	Opening Angle									
		0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
Rp 3/4	20	0.5	0.8	1.0	2.0	3.5	6.3	8.2	10.3	11.3	12.6
Rp 1	20	0.5	0.8	1.0	2.0	3.5	6.3	8.2	10.3	11.3	12.6
	25	0.7	1.0	1.4	4.1	6.5	10.7	16.6	23	27	30
Rp 1.1/4	20	0.5	0.8	1.0	2.0	3.5	6.3	8.2	10.3	11.3	12.6
	25	0.7	1.0	1.4	4.1	6.5	10.7	16.6	23	27	30
	32	1.0	1.5	2.7	5.5	9.5	16	28	40	57	62
Rp 1.1/2	25	0.7	1.0	1.4	4.1	6.5	10.7	16.6	23	27	30
	32	1.0	1.5	2.7	5.5	9.5	16	28	40	57	62
	40	1.2	1.5	3.6	7.5	13	24	37	55	78	90
Rp 2	32	1.0	1.5	2.7	5.5	9.5	16	28	40	57	62
	40	1.2	1.5	3.6	7.5	13	24	37	55	78	90
	50	1.3	1.6	4.0	9.2	17	31	51	83	122	165

DIMENSIONS



DN	F	A	B	C	H	L	CH	Weight (Kg)
20	Rp 3/4	60	85	22	82	49,6	50	0,57
25	Rp 1	60	85	22	82	49,6	50	0,51
32	Rp 1.1/4	75	93	25	99,5	59,6	70	0,92
40	Rp 1.1/2	75	93	25	99,5	59,6	70	0,82
50	Rp 2	75	93	25	99,5	59,6	70	0,69

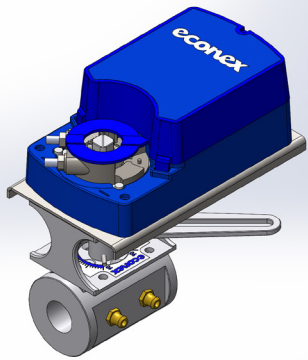
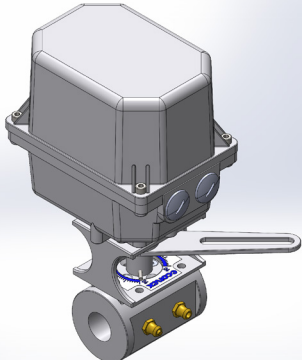
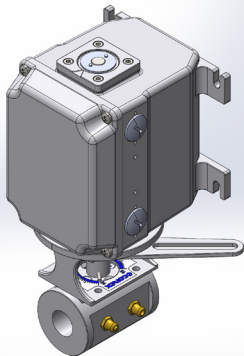
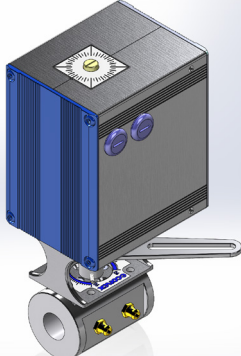
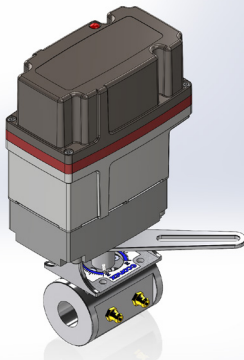
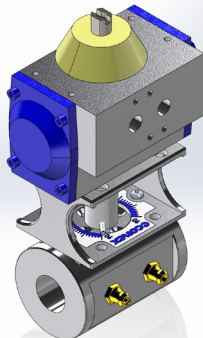
MODELS

The butterfly valve codes can be easily constructed by adding the various required characteristics based on the table below (code as an example only):

TBV		25	25	B	1	P	
THREAD							
20	3/4"						
25	1"						
32	1" 1/4						
40	1" 1/2						
50	2"						
ORIFICE							
20	3/4"						
25	1"						
32	1" 1/4						
40	1" 1/2						
50	2"						
ASSEMBLY							
A	With lever and locking flange						
B	Free tree						
S	Special dedicated version						
THREAD TYPE							
N	NPT						
	BSPP						
PLUGS OR SOCKETS							
O	No sockets or caps						
P	With 1/8" pressure ports						
T	With closing caps						
SEALS AND FINISHING							
1	NBR 60°C						
2	VITON 200°C						
K	Cataphoresis + Viton 200°C						
H	Body in stainless steel 303 + Viton 200°C						

POSSIBLE COUPLINGS WITH ELECTRIC AND PNEUMATIC ACTUATORS

The range of butterfly valves can be motorised, both with axis mounting and with tandem mounting, with all the following ranges of actuators:

Actuator electric AG8		Actuator electric AB1	
Actuator electric AR2		Actuator electric AR4	
Actuator electric AT-AN		Actuator MT tyre	

ASSEMBLY AND MAINTENANCE INSTRUCTIONS

The valve assembly instructions are in the following QR code.



All the reported data are subject to be changed without notice.

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