

## VPI LUG TECFLY RANGE - PREMIUM SERIE

TECHNICAL PASSPORT

### LUGGED TYPE BUTTERFLY VALVE DUCTILE IRON BODY WITH SINGLE ACTING PNEUMATIC ACTUATOR

VPI 4649-N07

#### APPLICATION

VPE butterfly valves are intended for ON/OFF or control use in fluid transfer circuits.

**Area of use:** water treatment, pumping, irrigation, industry.



**Fluids:** cold water, hot water, lightly charged water, liquid discharges, compressed air, alkalis, sodium hydroxide, etc.

«Not suitable for steam application»



#### GENERAL CHARACTERISTICS

**Range:** from DN 40 to DN300.

- Lugged type with threaded ears,
- Sealing in both directions of circulation of the piping.
- Soft sleeve guaranteeing a perfect tightness.
- Extended neck compatible with pipe insulation.
- Nickel plated ductile iron disc profiled and reduced in thickness
- Reduced maneuvering torque.
- Disc assembled with 2 non-ajectable half-shaft, square drive.
- Notched sector providing 10 positions of adjustment of the handle.
- ISO 5211 mounting plate allowing the installation of all types of actuators.

#### STANDARDS

<b>Design</b>	Design according to NF EN 593. Manufacture according to the requirements of the European directive 2014/68/UE «Equipment under pressure»: modulate H.
<b>Face to face</b>	Face to face according to standards NF EN 558 serie 20, ISO 5272 serie 20.
<b>Connection</b>	Mounting with flanges ISO PN10/16 from DN40 to DN150 and PN10 from DN200 to DN300 according to standard EN1092.
<b>Tests</b>	Pressure test according to standards EN12266-1 and ISO 5208: -Body : 24 bar -Seat : 17.6 bar

#### PRODUCT APPROVALS

CE EAC Ex On request

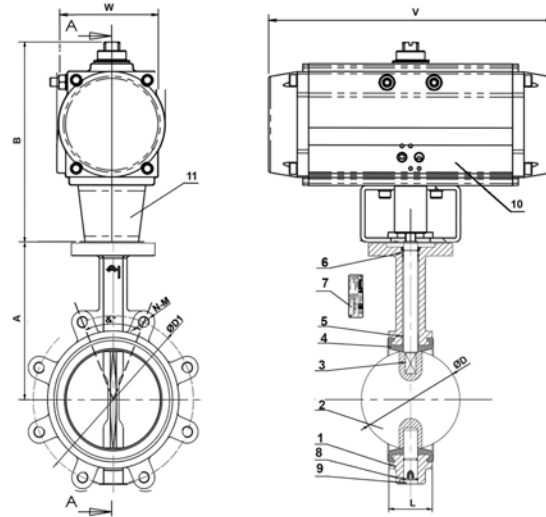
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### CONSTRUCTION & DIMENSIONS

Component	Coating
Body (1)	Oven backed epoxy coated RAL5015, 150 microns thickness



Pos.	Q-ty	Description	Material	Equivalences		
				DIN	ASTM	BS
1	1	Body	Ductile iron EN-GJS-500-7	GGG50	A536 70-50-05	EN-JS1050
2	1	Disc	GX5CrNiMo19-11-2	G-X6CrNiMo18 10	A 351 Grade CF8M	1504 316 C16
3	2	Shaft	Stainless steel 410			
4	1	Sleeve	Heat EPDM			
5	4	Bushing	PTFE			
6	1	O ring	NBR			
7	1	Nameplate	Stainless steel 304	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
8	1	Circlips	Seel			
9	1	Bottom cover	Plastic			
10	1	Pneumatic actuator				
11	1	Yoke *				

\* - Yoke in stainless steel 304 replaced by an aluminium spacer on DN40-125 and DN200.

DN		A	B	L	Ø D	Ø D1	N-M	&°	W	V	Actuator model	Weight (kg)
mm	inch											
40	1 1/2	120	128	33	39.2	110	4-M16	90°	80.5	169	TSR-063	4.2
50	2	140	128	43	52.9	125	4-M16	90°	80.5	169	TSR-063	4.8
65	2 1/2	150	149	46	64.5	145	4-M16	90°	91	210	TSR-083	7
80	3	156	157	46	78.8	160	8-M16	90°	103	264	TSR-092	9.7
100	4	175	170	52	104	180	8-M16	45°	116	272	TSR-105	12.4
125	5	190	202	56	123.3	210	8-M16	45°	134.5	302	TSR-125	19.2
150	6	211	282	56	155.1	240	8-M20	45°	142	398	TSR-140	27.8
200	8	235	249	60	202.5	295	8-M20	45°	161	456	TSR-160	43.6
250	10	265	330	68	250.5	350	12-M20	30°	189	534	TSR-190	65.2
300	12	305	355	78	301.5	400	12-M20	30°	210	536	TSR-210	94.1

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**WORKING CONDITIONS**

Maximum working pressure : 16 bar  
(6 bar for compressed air)  
Maximum working temperature : -15°C / +130°C  
Peak temperature : -30°C / +150°C

**Types of sleeve in option**

Tightness	Maximum temperature	Peak temperature
EPDM	Tmax : +4°C / +110°C	- 20°C / +130°C
White EPDM	Tmax : +4°C / +110°C	- 20°C / +130°C
CSM (Type Hypalon®)	Tmax : +4°C / +80°C	- 20°C / +110°C
FPM (Type Viton®)	Tmax : -10°C / +170°C	- 20°C / +200°C
Silicone	Tmax : -20°C / +170°C	- 40°C / +200°C
Nitrile (NBR)	Tmax : -10°C / +80°C	- 20°C / +90°C

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