

Ref. : VP 3649-BX4.pas

Rev. : A

Date : 04/02/2015

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# THREADED LUGS BUTTERFLY VALVE WITH ELECTRIC ACTUATOR

VP3649-BX4



## APPLICATION

General use : Water, air, acids etc.

REFERENCE	ACTUATOR TYPE
VP 3649-B14	BERNARD 230V 3 PH

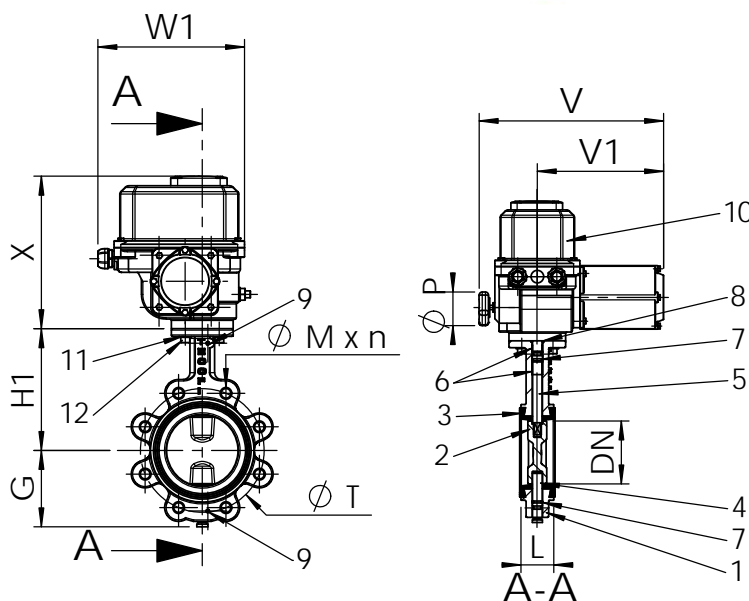
## GENERAL CHARACTERISTICS

Design in accordance with NF EN 593.  
 TECFLY LUG: type with threaded lugs allowing screw assembling.  
 Tightness in both ways.  
 Two kinds of sleeves:  
 - Body in dovetail shape ensures a perfect assembling (for high vacuum we can stick it)  
 - Internally reinforced aluminium sleeve giving a lower torque  
 Stem: high and low semi stem giving a high flow coefficient.  
 Machined disc with on periphery giving a low and regular torque.  
 Stem unjectable, bearing:stainless steel teflon lined.  
 Dovetail type sleeve, mounting flange according to ISO 5211.



## CONSTRUCTION

12	4	Screw	Stainless steel	
11	4	Washer	Stainless steel	
10	1	Electric actuator	Aluminium	
9	2	Split pin	Stainless steel	
8	1	Gasket	NBR	
7	2	O-Ring	NBR	
6	2	Guiding bearing	Teflon-lined	
5	1	Upper stem	Stainless steel 416	DIN : 1.4005 ASTM : AISI 416 BS : 416 S 21
4	1	Lower stem	Stainless steel 416	DIN : 1.4005 ASTM : AISI 416 BS : 416 S 21
3	1	Sleeve	Heat EPDM	Standard
2	1	Disc	GX5CrNiMo19-11-2	DIN : G-X6CrNiMo 18 10 ASTM : A351 Grade CF8M BS : 1504 340 C16
1	1	Body	Cast iron EN-GJL-250	DIN : GG25 ASTM : A48 class 40B BS : 1452 Grade 250
Pos.	Qty.	Description	Material	



## DIMENSIONS

DN		G	H	L	Type	Weight (kg)
mm	inch					
40	1" 1/2	66	134	33	F07	8.2
50	2"	72	140	43	F07	8.8
65	2" 1/2	78	153	46	F07	9.8
80	3"	89	159	46	F07	10.8
100	4"	102	178	52	F07	12.3
125	5"	117	190	56	F07	16.6
150	6"	130	203	56	F07	18.9
200	8"	159	238	60	F10	34.6
250	10"	190	268	68	F10	47.7
300	12"	222	306	78	F10	60.0

\*Valve + actuator weight.

## WORKING CONDITIONS

Maximum working pressure : 16 bar.  
 Maximum temperature : -15°C / +130°C.  
 Peak temperature : -30°C / +150°C.

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

## ACTUATOR DIMENSIONS

DN	Actuator reference	ØP	V	W	X
DN40-100	OA6 230V 3PH 50Hz	90	319	200	225
DN125	OA8 230V 3PH 50Hz	90	319	200	225
DN150	OA15 230V 3PH 50Hz	90	362	200	225
DN200	AS18 230V 3PH 50Hz	160	479	313	180
DN250-300	AS50 230V 3PH 50Hz	250	528	313	180

Maximum differential pressure 10 bar

## STANDARDS

Manufacture according to the requirements of the European directive 2014/68/UE «Equipments under pressure» : modulate H.  
 Pressure test according to standards  
 EN 12266-1, DIN 3230, BS 6755 and ISO 5208 :  
 Body : 24 bar.  
 Seat : 17,6 bar.

Face to face according to standard NF EN 558-1 serie 20, ISO 5752 serie 20, DIN 3202.

Mounting between flanges PN10 / PN16 up to DN150 and PN10 for upper diameters: according to EN 1092-2, BS450, ANSI B16.1-5.  
 Adjustable between flanges PN16 and ASA 150 on request.

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