

EPV-BUTTERFLY VALVE

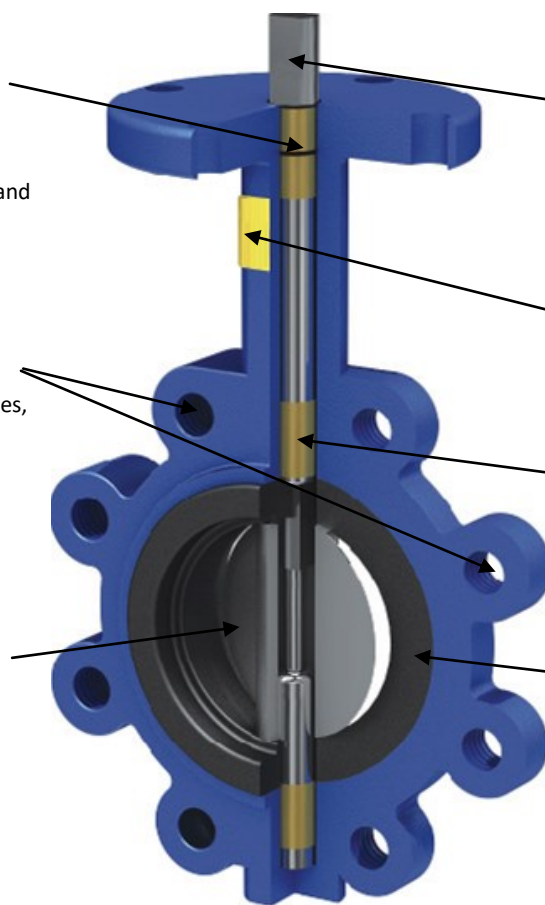
Wafer* & Fully Lugged** Style Butterfly Valve

The VAC butterfly valve range achieves a perfect balance of economy and durability which is designed to meet the needs of many different industries including HVAC, Oil and gas production, Marine, chemical and petrochemical, waste water and mining. This range is pressure rated to (PN16) for sizes 2" to 12" and (PN10) for size 14". Temperature ratings= EPDM: -10c to 120c, Nitrile: -10c to 80c.

O-RING: Metal name plate is securely fixed to the valve body. Name plate clearly display size, flange compatibility, body, seat and disc material

Body Style: Fully Lugged comes standard with tapped lugged holes, and the wafer style feature alignment holes for quick installation.

Disc: Are made of 316 stainless steel material.



Stem: The standard stem for these valves is constructed of solid 416 stainless steel. Square stem design provides easy actuation. Mounting pad & stem dimensions meet ISO 5211 requirements.

Name Plate: Metal name plate is securely fixed to the valve body. Name plate clearly display size, flange compatibility, body, seat and disc material

Stem Bushing: Metal name plate is securely fixed to the valve body. Name plate clearly display size, flange compatibility, body, seat and disc material

Seat: Phenolic-backed resilient seat provides bubble tight shut-off up to (2" to 12") and (14" and larger). Seats/liners are available in materials such as EPDM and Nitrile.

*Wafer Pattern valves to fit PN10, PN16, ANSI 150, BS10 Table D & E flanges.

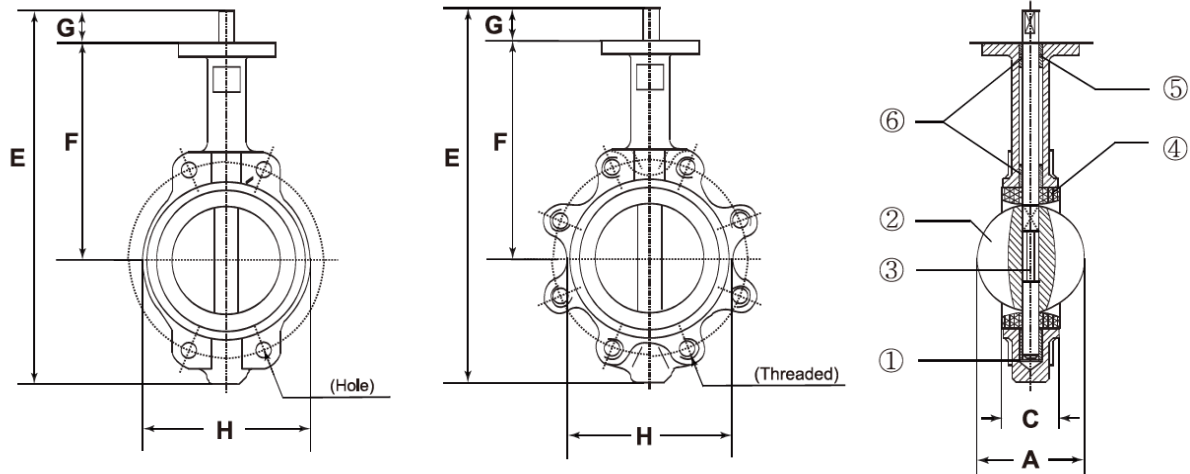
**Lugged Pattern valves to fit PN16 flanges.

Please note: All information is sourced from manufacturer's data and is intended for guidance only — Essco Process Valves can accept no liability for changes, omissions or errors.

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EPV-BUTTERFLY VALVE

Technical Information— Fully Lugged and Wafer



Materials Specification:

No.	Description	Material
1	Body	Ductile Iron (Lugged) or Cast Iron (Wafer)
2	Disc	CF8M (316 SS)
3	Stem	416 Stainless Steel
4	Seat	EPDM or NBR
5	O-ring	NBR
6	Bushing	PTFE (2" to 12") and Lubricated Bronze (14")

Dimensional Specification:

Size:*	A	C	E	F	G	H	F Detail	Wafer Weight (Kg)	Lugged Weight (Kg)
1.5"	43.20	33.00	250.00	148.00	31.50	97.40	F05	2.5	3
2"	52.60	43.00	273.00	161.00	32.00	100.00	F05	4	5
2.5"	64.30	46.00	296.00	175.00	32.00	120.00	F05	5	5
3"	78.80	46.00	308.00	181.00	32.00	127.00	F05	5	6
4"	104.04	52.00	346.00	200.00	32.00	165.00	F07	6	10
5"	123.30	56.00	372.00	213.00	32.00	185.00	F07	8	11
6"	155.38	56.00	397.00	226.00	32.00	212.00	F07	9	13
8"	202.15	60.00	480.00	260.00	45.00	268.00	F10	16	22
10"	250.15	68.00	540.00	292.00	45.00	341.00	F10	21	31
12"	301.45	78.00	614.00	337.00	45.00	400.00	F10	35	49

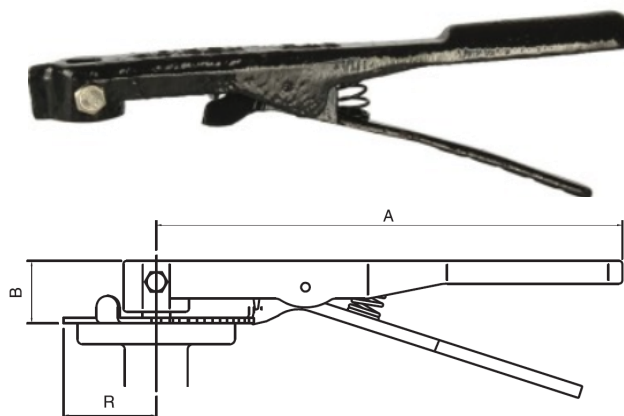
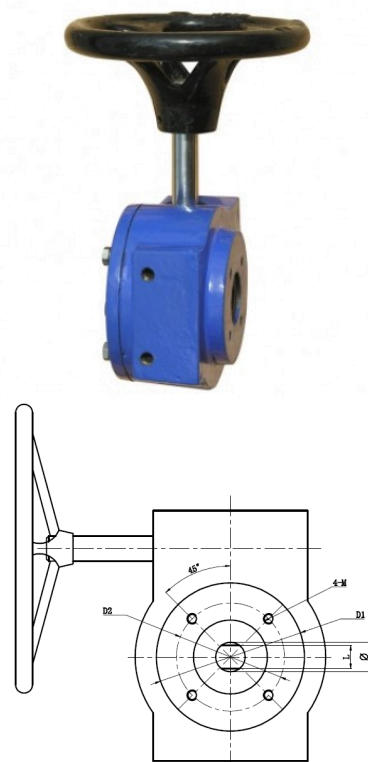
EPV-BUTTERFLY VALVE OPERATION

Lever Operation and Gearbox Operation

Gearbox Specification					
Size (mm)	D1	D2	☒	∅	4-M
DN50	77	50	11x11	12.7	4-M6x13
DN65	77	50	11x11	12.7	4-M6x13
DN80	77	50	11x11	12.7	4-M6x13
DN100	92	70	14x14	15.9	4-M8x13
DN125	92	70	14x14	19.05	4-M8x13
DN150	92	70	14x14	19.05	4-M8x13
DN200	125	102	17x17	22.2	4-M10x15
DN250	125	102	22x22	28.6	4-M10x15
DN300	140	102	27x27	31.8	4-M10x18

Description: Cast Iron quarter turn gearbox fitted with a single pole double throw switch and handwheel.

Optional Extras: Infinity Stop — For additional control.



Lever Specification			
Valve Size (mm)	A	B	R
50-80	237	45	47
100-150	267	45	51
200-250	353	45	76

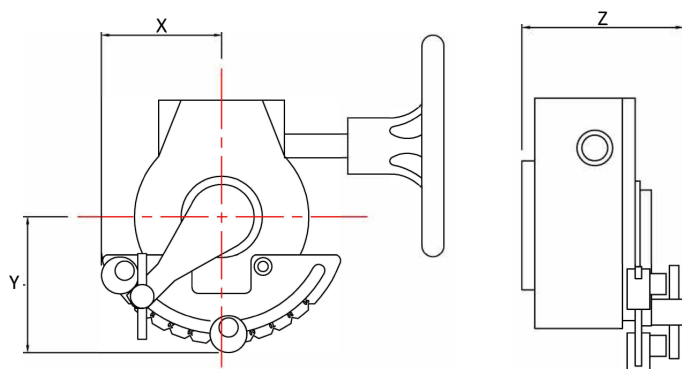
Description: Cast Iron Lever complete with Stainless steel notch plate for additional control.

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EPV-BUTTERFLY VALVE OPERATION

Double Regulating - Infinite Stop



Model	Valve Size (mm)	X	Y	Z
VAC-INF-SMALL	50-150mm	85	95	85
VAC-INF-LARGE	200-250mm	100	115	95

KV value relative to opening position:									
DN	10°	20°	30°	40°	50°	60°	70°	80°	90°
1.5"	-	-	-	5	12	25	40	56	62
2"	-	-	1	8	18	33	54	71	79
2.5"	-	-	6	19	41	76	118	158	174
3"	-	3	18	43	79	138	211	252	275
4"	-	15	38	83	154	253	368	458	496
5"	-	20	61	134	249	399	599	792	883
6"	5	37	100	200	374	600	863	1109	1212
8"	15	76	200	399	680	1099	1666	2196	2500
10"	40	150	333	621	1084	1765	2652	3517	3948
12"	60	219	500	989	1736	2770	4097	5118	5635

Kv = Volume of water in m³/h through a valve at a preset opening stage and under a head loss of 1 bar.

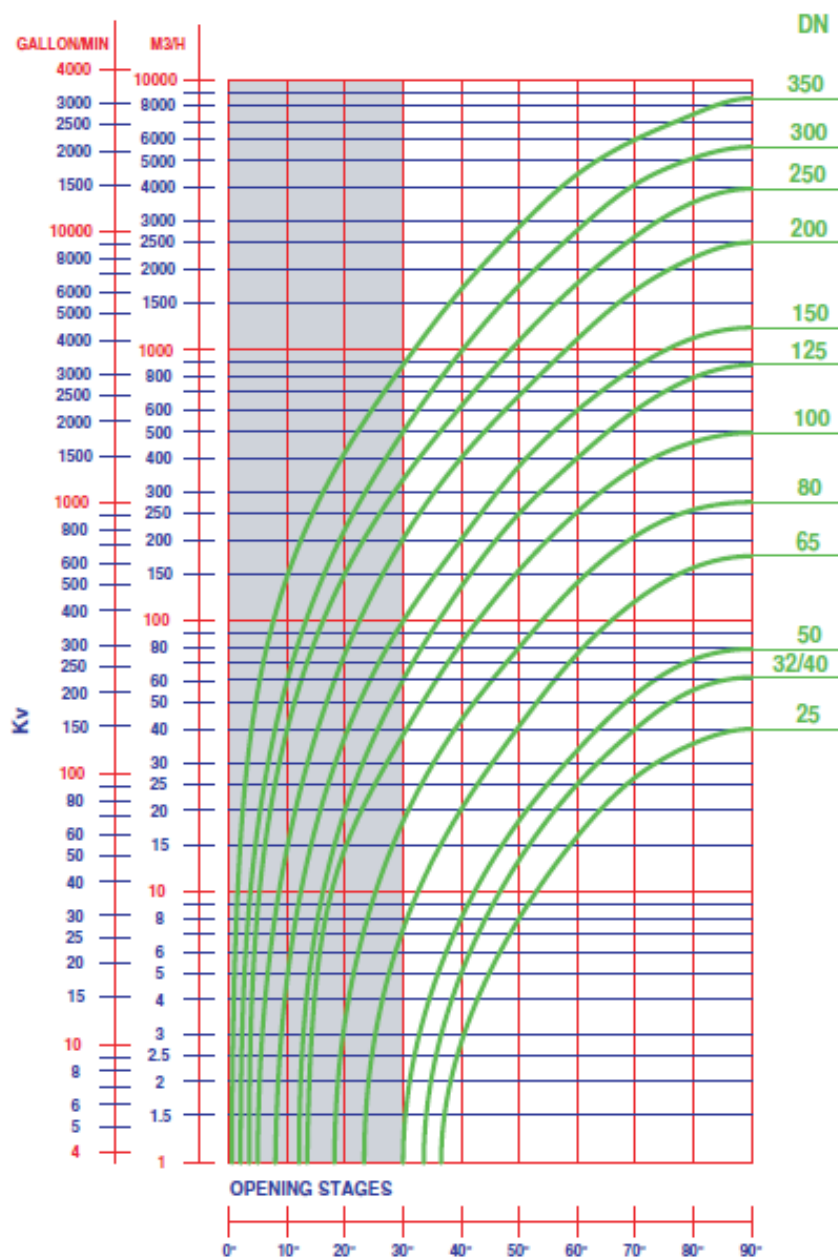
Note: See flow rate KV graph on next page.

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EPV-BUTTERFLY VALVE OPERATION

Double Regulating - Infinite Stop (Flowrate Kv)



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