

V8BF..S Series Butterfly Valves and NOM..H Series Actuators

Overview

Honeywell V8BF series butterfly valves and NOM..H electric actuators, with modulating control or two-position control, can be applied to water supply and HVAC systems of commercial buildings, public buildings and city pipework. The modulating actuators work with a variety of control signals, i.e. 4–20 mA, 0–10 V or 2–10 V (on-site set-up available).



FEATURES

- Simple structure for easy operation and installation
- Soft valve seat for high performance sealing, high reliability and long service life
- Two-position control or analog control
- Manual operations available
- Position self-locking function and 3D position indicator
- Heaters to prevent condensation
- IP67 protection rating
- On-site on/off/stop control available

SPECIFICATIONS

Valve Body

- | | |
|----------------------|---------------------|
| • Size | DN50-DN600 |
| • Nominal pressure | PN16 |
| • Medium | Cold/hot water |
| • Medium temperature | -10°C to 120°C |
| • Valve body | Stainless steel 304 |
| • Valve disc | stainless steel 304 |
| • Valve stem | Stainless steel |
| • Valve seat | EPDM |
| • Pipe connection | ISO7005-2 |
| • Sealing pressure | 1.76 MPa |

ACTUATOR

Power	220 Vac+/-10%, 50/60 Hz
Run time	See the actuator information tables
Angle of rotation	90°±5°
Control (modulating control)	4–20 mA, DC 0–10 V or 2–10 V
Feedback (modulating control)	4–20 mA, DC 0–10 V or 2–10 V
Protection rating	IP67
Heater	See the actuator information tables
Overload protection	Built-in thermal protection (the actuator stops at 135±5°C and resets at 95±15°C)

Honeywell

V8BF..S Series Butterfly Valve

Features

Connection Design

Complies with requirement of international standard ISO 5211 for easy coupling with third party actuators.

Sealing Ring

Automatically adjusts the seal based on pressure changes to prevent leakage.

Valve Disc

Reinforced strip on disc for increased strength. Stainless steel disc to withstand corrosion, abrasion and high temperatures.

Valve Seat

Soft valve seat to eliminate leakage points. The valve seat is fitted into a groove on the valve body to prevent separation. The groove also prevents deformation due to frictional torque.

Bearings

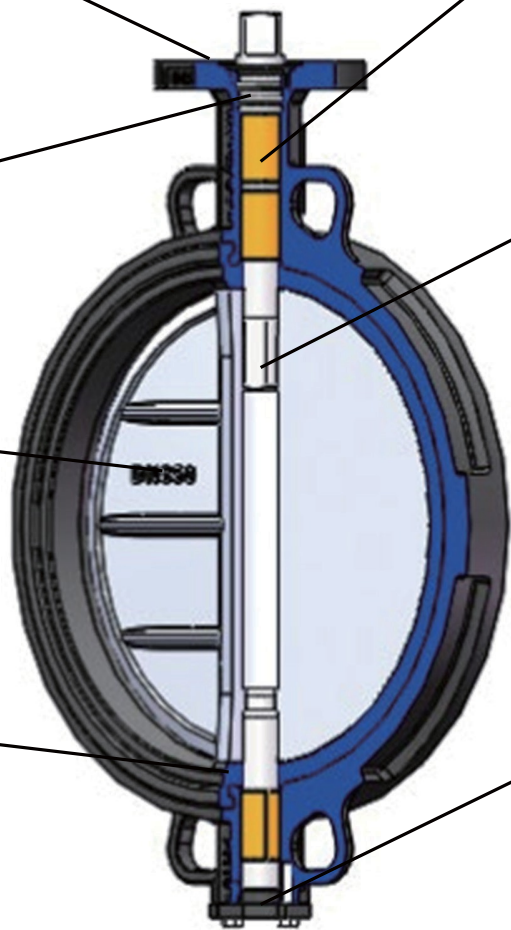
Self-lubricating bearings are installed at the top and bottom of the stem to prevent deadlock and reduce the torque.

Valve Stem

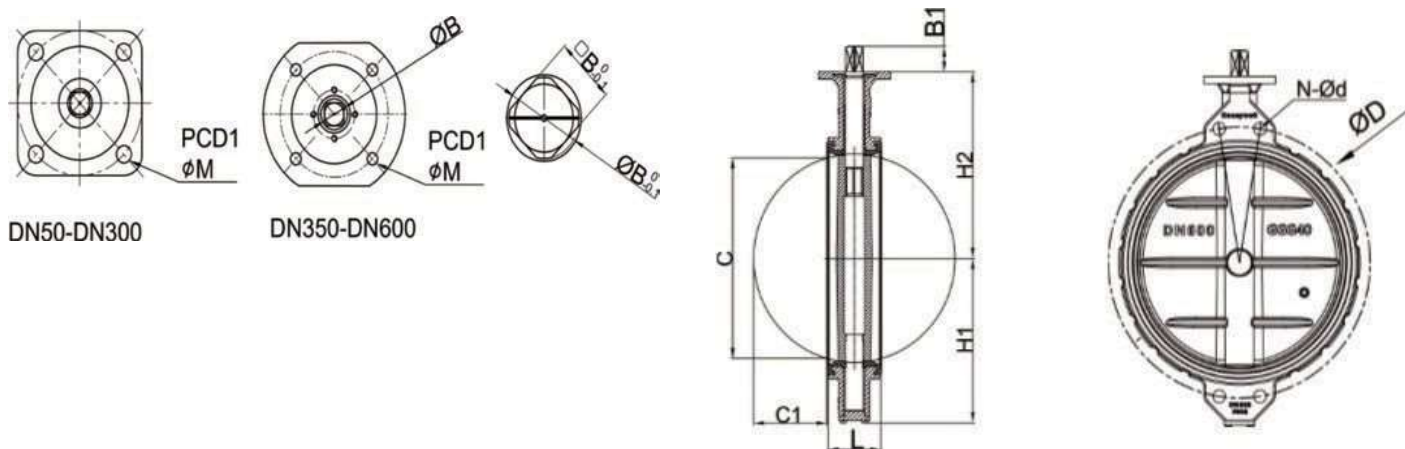
Pinless connection of valve stem and disc to prevent leakage through the pin hole. DN50-DN250 is connected by a single shaft spline while DN350-DN600 is connected by dual-shaft splines. The valve stem and disc are tightly meshed to ensure the sealing of the valve, minimize drive delay and improve control accuracy.

Thrust Bushing

The thrust bushing reduces friction caused by the weight of the valve disc and decreases the overall frictional torque on the valve. It also eliminates the risk of deadlock between the stem and the lower end of the valve body.



V8BF..S Series Butterfly Valves and Actuators



Model	Size	L	H1	H2	N-Ø d	Ø D	C	C1	Ø B	B1	□ B	Mounting flange (ISO 5211)			Weight (kg)
												Type	PCD1	ØM	
V8BFW16S-050	DN50	43	65	143	18	125	39	8	14	19	11	F07	70	9	4
V8BFW16S-065	DN65	46	71	155	18	145	55	13	14	19	11	F07	70	9	5
V8BFW16S-080	DN80	46	77	162	18	160	69	19	14	19	11	F07	70	9	5
V8BFW16S-100	DN100	52	91	182	18	180	91	27	14	19	11	F07	70	9	6
V8BFW16S-125	DN125	56	103	197	18	210	115	36	18	19	14	F07	70	9	8
V8BFW16S-150	DN150	56	120	210	22	240	140	47	18	19	14	F07	70	9	9
V8BFW16S-200	DN200	60	144	240	22	295	186	68	22	24	17	F10	102	11	15
V8BFW16S-250	DN250	68	174	288	26	355	239	90	25	24	19	F10	102	11	23
V8BFW16S-300	DN300	78	206	311	26	410	289	111	28	24	22	F10	102	11	36
V8BFW16S-350	DN350	78	303	329	26	470	325	128	35	29	27	F12	125	14	48
V8BFW16S-400	DN400	102	335	361	30	525	375	143	35	29	27	F12	125	14	60
V8BFW16S-450	DN450	114	363	393	30	585	423	162	48	38	36	F14	140	18	80
V8BFW16S-500	DN500	127	397	427	33	650	473	182	48	38	36	F14	140	18	125
V8BFW16S-600	DN600	154	459	492	36	770	560	214	60	48	36	F16	165	22	200
V8BFW16S-700	DN700	165	510	563	36	840	655	255	75	90	79	F16	165	22	249
V8BFW16S-800	DN800	190	592	630	39	950	736	285	80	110	46	F16	165	18	365

V8BF..S Series Butterfly Valves and Actuators (Shut-Off Pressure: 1.0 Mpa)

Order Information

Size	Valve items	Actuator items (ON-OFF)	Actuator items (Modulating)	Torque (Nm)	Running time (50Hz)	Motor Consumption (VA)	Heater (W)
DN50	V8BFW16S-050	NOM16H0050	NOM16H0050P	50	20	48	5
DN65	V8BFW16S-065	NOM16H0050	NOM16H0050P	50	20	48	5
DN80	V8BFW16S-080	NOM16H0050	NOM16H0050P	50	20	48	5
DN100	V8BFW16S-100	NOM16H0050	NOM16H0050P	50	20	48	5
DN125	V8BFW16S-125	NOM16H0080	NOM16H0080P	80	30	48	5
DN150	V8BFW16S-150	NOM16H0200	NOM16H0200P	200	30	92	5
DN200	V8BFW16S-200	NOM16H0200	NOM16H0200P	200	30	92	5
DN250	V8BFW16S-250	NOM16H0400	NOM16H0400P	400	30	136	5
DN300	V8BFW16S-300	NOM16H0400	NOM16H0400P	400	30	136	5
DN350	V8BFW16S-350	NOM16H0800	NOM16H0800P	800	35	220	5
DN400	V8BFW16S-400	NOM16H1000	NOM16H1000P	1000	35	220	5
DN450	V8BFW16S-450	NOM16H2000	NOM16H2000P	2000	70	286	5
DN500	V8BFW16S-500	NOM16H2000	NOM16H2000P	2000	70	286	5
DN600	V8BFW16S-600	NOM16H2000B	NOM16H2000PB	2000	70	286	5
DN700	V8BFW16S-700	NOM16H4000	NOM16H4000P	4000	140	286	5
DN800	V8BFW16S-800	NOM16H5000	NOM16H5000P	5000	140	286	5

Kv Values for V8BF..S Series Butterfly Valves

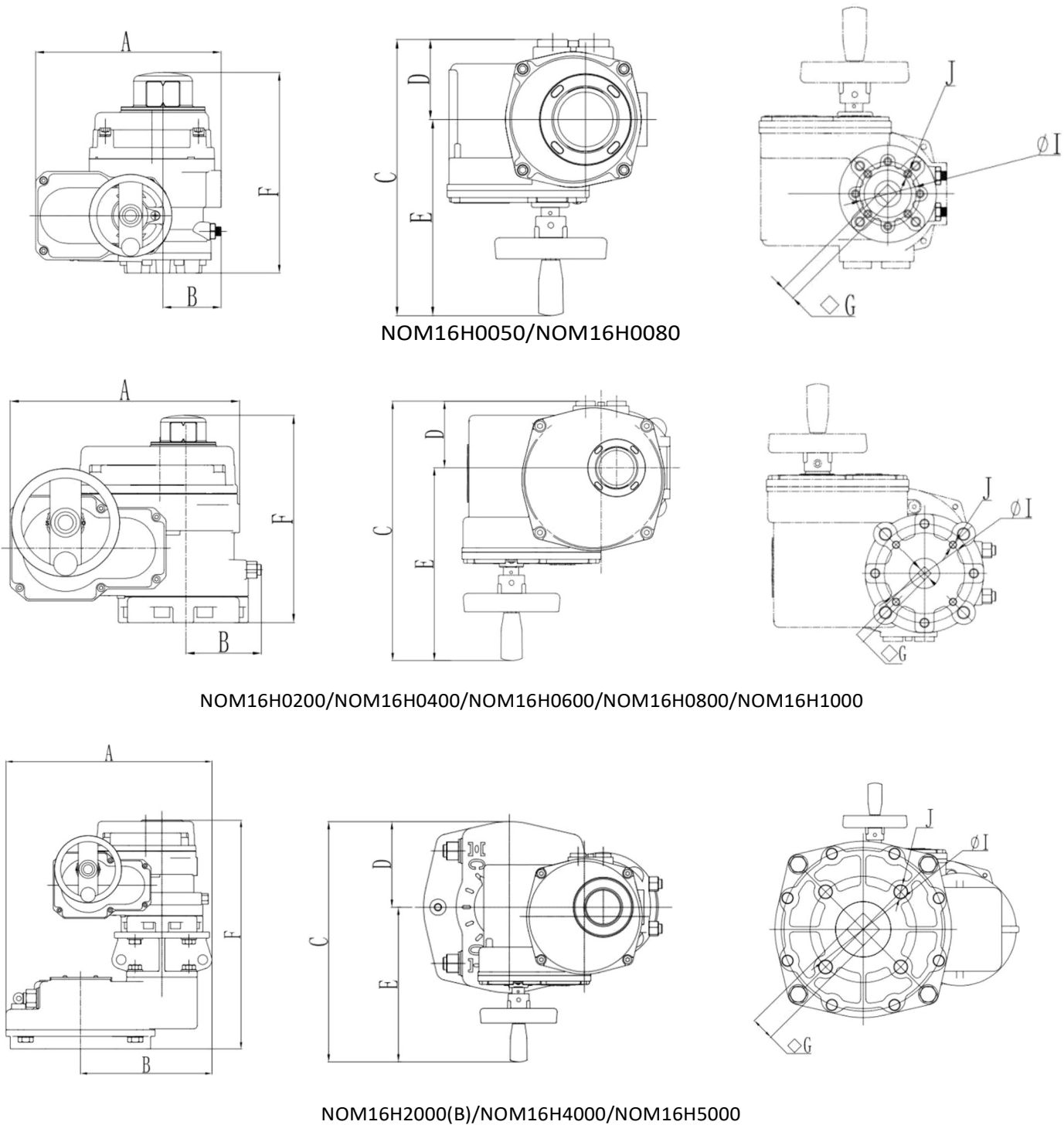
Size	Kv values for different openings								
	10°	20°	30°	40°	50°	60°	70°	80°	90°
DN50	1.1	3.8	10.2	22.0	38.0	60.0	100.0	132.0	193.0
DN65	2.0	7.5	18.2	35.0	61.0	95.0	187.0	240.0	315.0
DN80	2.5	9.8	26.0	48.0	83.0	126.0	214.0	338.0	425.0
DN100	3.8	14.6	39.0	72.0	119.0	221.0	361.0	606.0	723.0
DN125	6.5	24.0	62.0	118.0	217.0	394.0	599.0	1038.0	1243.0
DN150	10.0	41.0	95.0	175.0	326.0	542.0	873.0	1260.0	1859.0
DN200	19.0	64.0	165.0	306.0	573.0	995.0	1567.0	2310.0	3124.0
DN250	28.0	101.0	245.0	451.0	836.0	1462.0	2253.0	3256.0	4757.0
DN300	34.0	129.0	312.0	615.0	1137.0	2125.0	3248.0	4991.0	7058.0
DN350	47.0	163.0	390.0	795.0	1498.0	2573.0	3980.0	5749.0	8319.0
DN400	62.0	231.0	508.0	1077.0	1973.0	3381.0	5385.0	8099.0	11458.0
DN450	75.0	256.0	621.0	1208.0	2315.0	3925.0	6331.0	9474.0	13612.0
DN500	103.0	346.0	859.0	1692.0	3086.0	5348.0	8513.0	13109.0	18748.0
DN600	139.0	494.0	1153.0	2389.0	4466.0	7561.0	11945.0	18088.0	25217.0
DN700	191.0	659.0	1674.0	3224.0	5990.0	10659.0	17442.0	25194.0	36821.0
DN800	257.0	973.0	2302.0	4533.0	8235.0	14123.0	23021.0	31613.0	45995.0

V8BF..S+NOM..H Series Butterfly Valves and Actuators

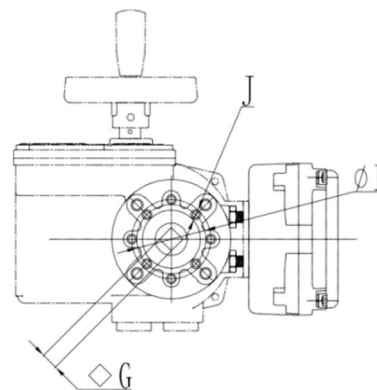
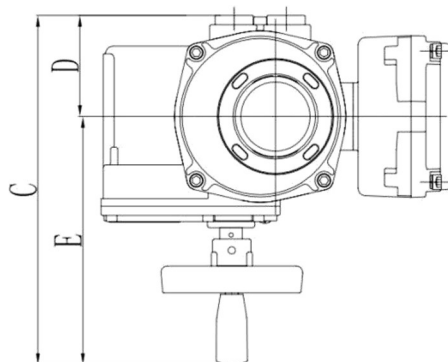
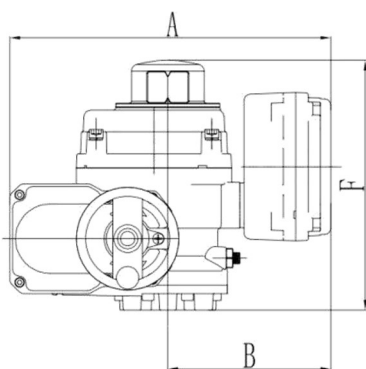
Actuator dimensions

ON-OFF Type

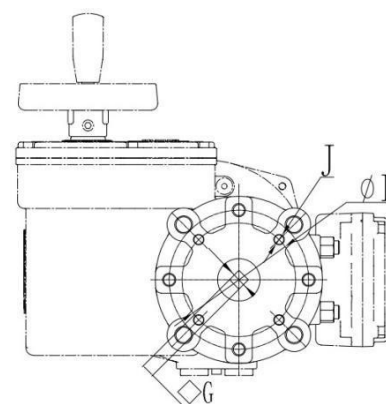
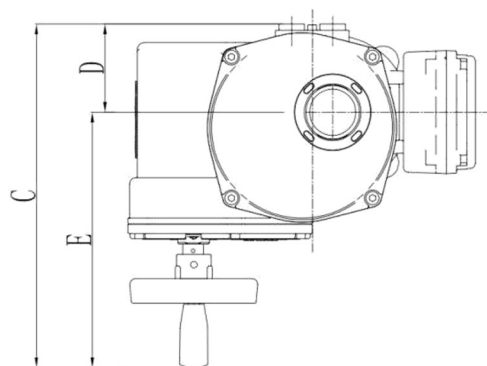
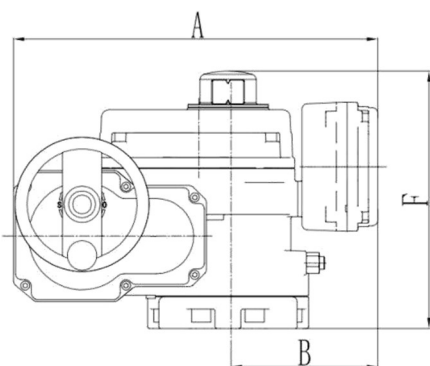
Notice: Multiple stem adaptors of NOM16H0200(P)/NOM16H0400(P) to meet the different sizes of butterfly valve.



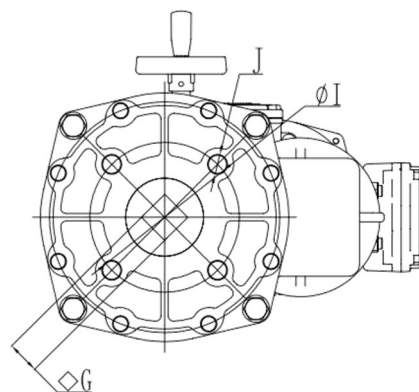
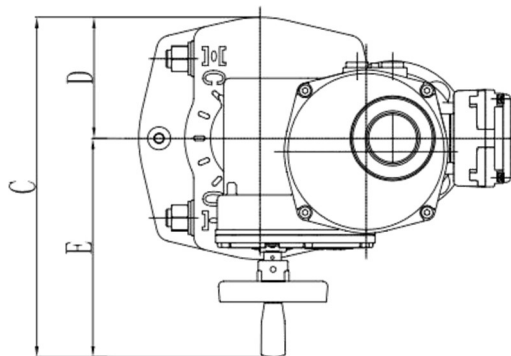
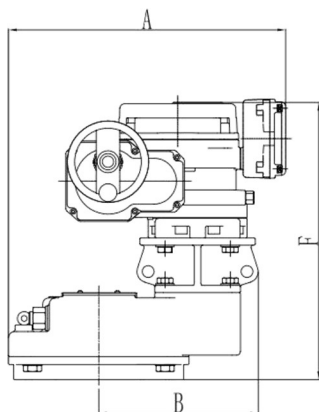
Modulating Type



NOM16H0050P/NOM16H0080P



NOM16H0200P/NOM16H0400P/NOM16H0600P/NOM16H0800P/NOM16H1000P



NOM16H2000P(B)/NOM16H4000P/NOM16H5000P

