

Wafer Butterfly Valve

Resilient Seated · DN32-DN400 · PN10/16 & ANSI Class 150 · Ductile Iron Body · CF8M Disc · EPDM Seat

A resilient seated wafer butterfly valve for general water, HVAC and process duty. The body is drilled to suit both PN10/16 and ANSI Class 150 flanges, so one valve covers metric and imperial pipework. The EPDM seat is a full cartridge that isolates the ductile iron body from the line fluid and seals against the flange faces, removing the need for separate gaskets. Supplied bare shaft with an ISO 5211 top flange for lever, gearbox or actuator mounting.

Design Features

- **Wafer pattern** — fits between flanges with the shortest face-to-face of any quarter-turn valve, saving weight and space
- **One body drilling for both standards** — bolt holes suit PN10/16 and ANSI Class 150 flanges
- **CF8M stainless disc** as standard, giving better corrosion resistance than the usual ductile iron or nickel-plated disc
- **Cartridge-style EPDM seat** isolating the body from the line fluid — no separate body liner or flange gasket required
- **Two-piece stainless shaft** in ASTM A182 F304, with a blow-out proof arrangement
- **ISO 5211 top flange** for direct mounting of lever, gearbox, pneumatic or electric actuator
- **Zero leakage** seat tightness to ISO 5208 / API 598



SHOWN WITH LEVER OPERATOR — DN32 TO DN200

Specification

Valve type	Resilient seated wafer pattern butterfly valve, concentric disc
Size range	DN32 to DN400 (1¼" to 16")
Pressure rating	PN10 / PN16 and ANSI Class 150
Body	Ductile iron to EN 1563 — GJS500-7
Shaft	Stainless steel to ASTM A182 F304
Disc	Stainless steel to ASTM A351 CF8M (316)
Seat	EPDM
Temperature range	-20 °C to +110 °C
Operation	Supplied bare shaft with ISO 5211 top flange; lever, gearbox or actuator fitted to order
Top flange	ISO 5211 — F5/F7 (DN32-100), F7 (DN125-200), F10 (DN250-300), F14 (DN350-400)
Tolerances	ISO 2768-M
Model reference	20W3040 EPDM · W32200203040E0 (DN32-200), W250400203040E0 (DN250-400)

Standards & Testing

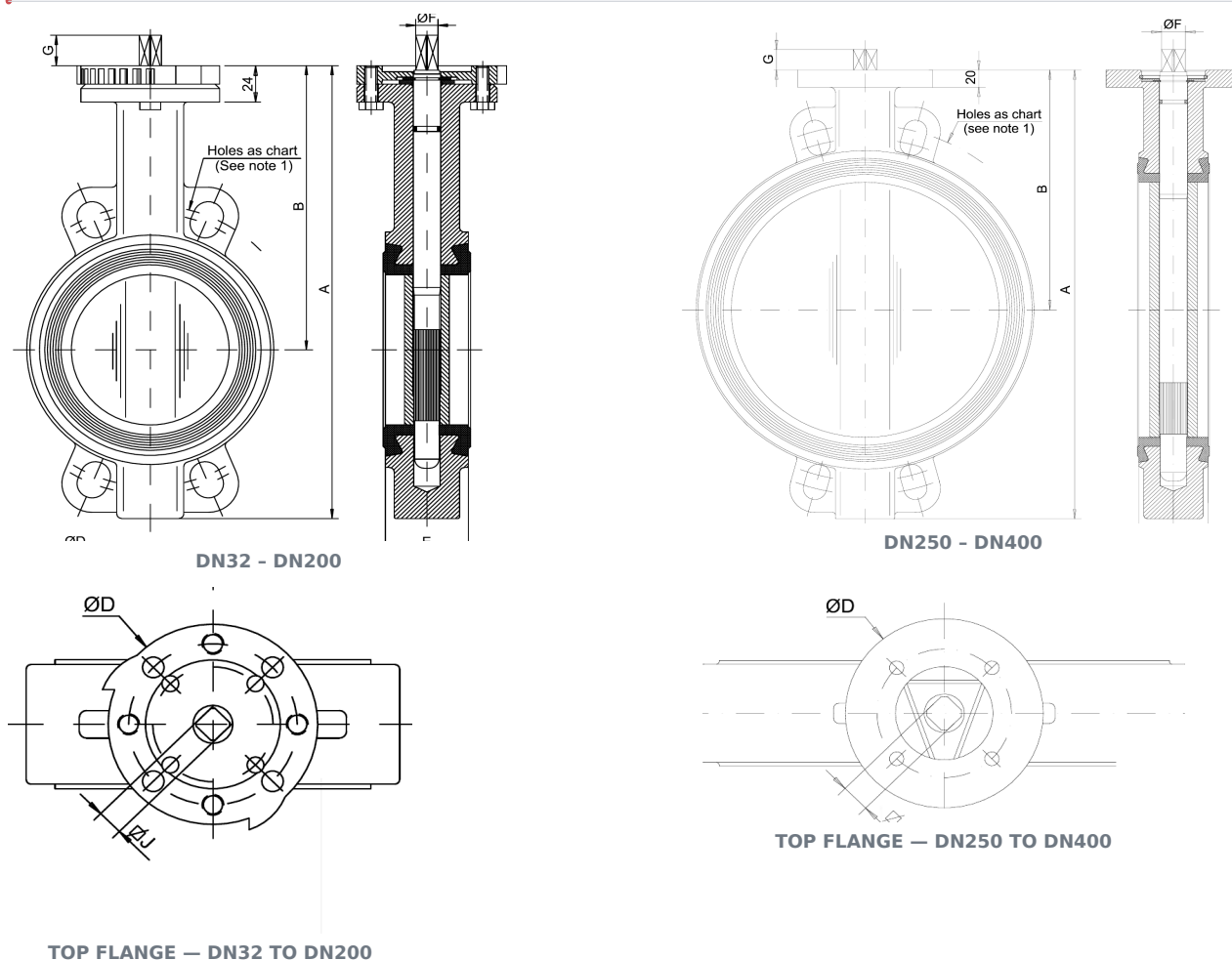
Face to face	EN 558 Series 20 · ISO 5752 Series 20 · API 609 Table 1 · BS 5155 Series 4
Mounting between flanges	PN10/16 — ISO 7005, DIN 2501, EN 1092-1 ANSI Class 150 — ANSI B16.5
Top flange	ISO 5211
Pressure test	EN 12266-1, ISO 5208 — body 1.5 × PN, seat 1.1 × PN
Tightness test	ISO 5208 — zero leakage to API 598
Tolerances	ISO 2768-M

Dimensions All dimensions in millimetres

DN	NPS	A	B	ØD	E	ØF	G	ØJ	ISO 5211 TOP FLANGE	WEIGHT kg
32	1¼"	205	140	88	33	9.8	14	8	F5 / F7	2
40	1½"	205	140	88	33	9.8	14	8	F5 / F7	2
50	2"	228	156	88	43	9.8	14	8	F5 / F7	3.5
65	2½"	248	161	88	46	12	16	9	F5 / F7	4.5
80	3"	265	169	88	46	14	16	11	F5 / F7	5
100	4"	298	187	88	52	14	20	11	F5 / F7	6.5
125	5"	331	206	105	56	18	20	14	F7	8
150	6"	349	215	105	56	18	20	14	F7	9
200	8"	430	255	105	60	22	24	17	F7	15
250	10"	461	248	150	68	25	24	19	F10	21.5
300	12"	524	280	150	78	28	24	22	F10	30
350	14"	570	300	170	78	28	29	22	F14	39
400	16"	644	340	170	102	35	29	27	F14	52

Bolt holes are drilled to suit PN10/16 and ANSI Class 150Lb flanges. Top flange plate thickness is 24 mm for DN32-DN200 and 20 mm for DN250-DN400. Weights are for the bare shaft valve without operator.

Reference Views



Dimension Key

A	Overall height, bottom of body to top of drive	ØF	Shaft diameter
B	Height from valve centreline to top of drive	G	Height of drive square above the top flange
ØD	ISO 5211 top flange outside diameter	ØJ	Drive square across flats
E	Face to face — body width between flanges		

Operators & Options

- **Lever operator** with notch plate for intermediate throttling positions — DN32 to DN200
- **Worm gearbox** with handwheel and position indicator — standard on DN250 and above, available on smaller sizes
- **Pneumatic actuation**, double acting or spring return, mounted directly to the ISO 5211 top flange
- **Electric actuation**, on/off or modulating
- **Accessories**: limit switch box, solenoid valve, positioner, manual override
- **Alternative seat and disc materials** available to order — confirm duty and media at enquiry

Redrawn by Actuation Valve & Control Ltd from the manufacturer's published data, references W32200203040E0 and W250400203040E0. Confirm operator and seat options at enquiry. Certified drawings are available on request against a specific order.