



Butterfly valves

VFY-WH/ VFY-LH

Features & benefits

- Spline driven one piece shaft connected to spherically machined disc allows high torque transmission i.e. quick response and minimum back-lash
- Long term reliability due to upper and lower anti-friction bearings
- Safe maintenance: shaft blow out protection with circlip
- Padlockable hand lever with 10 position

Ordering

Product code numbers

Type	Diameter [mm]	Kvs values [m³/h]	Pressure nominal [bar]	Media temperature [°C] [Max]	Valve disc material	Code number
VFY-WH	40	62.00	16	130	Stainless Steel	065B7351
VFY-WH	50	79.00	16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B7352
VFY-WH	50	79.00	16	130	Stainless Steel	065B7410
VFY-WH	65	174.00	16	130	Stainless Steel	065B7411
VFY-WH	80	275.00	16	130	Stainless Steel	065B7412
VFY-WH	100	496.00	16	130	Stainless Steel	065B7413
VFY-WH	125	883.00	16	130	Stainless Steel	065B7414
VFY-WH	150	1212.00	16	130	Stainless Steel	065B7415
VFY-WH	200	2500.00	16	130	Stainless Steel	065B7416
VFY-WH	50		16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B8400
VFY-WH	65	79	16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B8401
VFY-WH	80	174	16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B8402
VFY-WH	100	275	16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B8403
VFY-WH	125	496	16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B8404
VFY-WH	150	883	16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B8405
VFY-WH	200	1212	16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B8406
VFY-LH	32	62.00	16	130	Stainless Steel	065B7365
VFY-LH	40	62.00	16	130	Stainless Steel	065B7366
VFY-LH	50	79.00	16	130	Stainless Steel	065B7420
VFY-LH	65	174.00	16	130	Stainless Steel	065B7421
VFY-LH	80	275.00	16	130	Stainless Steel	065B7422
VFY-LH	100	496.00	16	130	Stainless Steel	065B7423
VFY-LH	125	883.00	16	130	Stainless Steel	065B7424
VFY-LH	150	1212.00	16	130	Stainless Steel	065B7425
VFY-LH	200	2500	16	130	Stainless Steel	065B7436
VFY-LH	50	79	16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B8410
VFY-LH	65	174	16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B8411
VFY-LH	80	275	16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B8412
VFY-LH	100	496	16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B8413
VFY-LH	125	883	16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B8414
VFY-LH	150	1212	16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B8415
VFY-LH	200	2500	16	120	Ductile iron EN GJS 400-15 (DIN GGG 40) with Polyamid coating	065B8416

Spare parts code numbers

Type	For valve size	Code number
VFY-Handle	DN 25-80	065B7605
VFY-Handle	DN 125-200	065B7606

Note: Please contact Danfoss sales to align on details before ordering spare parts.



Product details

General data

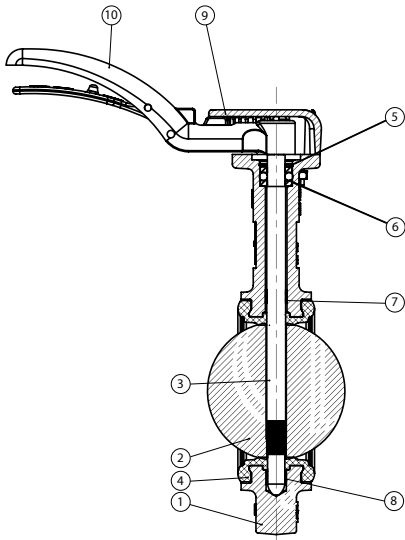
Technical data

Type	VFY-WH	VFY-LH
Nominal diameter, DN	25-200	32-200
k _{vs} value (m ³ /h)	40-2500	62-2500
Rotation angle	90°	90°
Leakage rate	Acc. to PED 2014/68/EU, EN 12266-1, Rate A ¹⁾	Acc. to PED 2014/68/EU, EN 12266-1, Rate A ¹⁾
Nominal pressure, PN	16	16
Medium	Circulation water, Glycolyc water up to 50 %	Circulation water, Glycolyc water up to 50 %
Medium temp., EP disc (°C)	–10 ... 120 (see p-T diagram)	–10 ... 120 (see p-T diagram)
Medium temp., SS disc (°C)	–10 ... 130 (see p-T diagram)	–10 ... 130 (see p-T diagram)
Connection	Wafer (centering lugs)	Lug (tapped lugs)
Mounting	Mounting between flanges	Mounting between flanges or mounting deadline

¹⁾ No visible detectable leakage during the testing procedure

Design

- 1 Body
- 2 Disc
- 3 Shaft
- 4 Liner
- 5 Circlip
- 6 O-ring
- 7 Upper guide bush
- 8 Lower guide bush
- 9 Cap
- 10 Hand lever



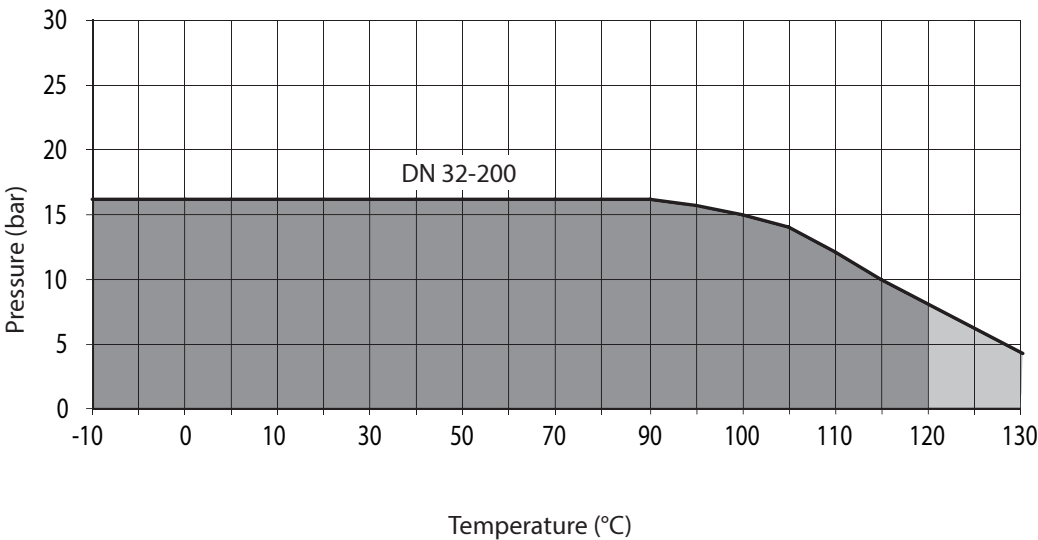


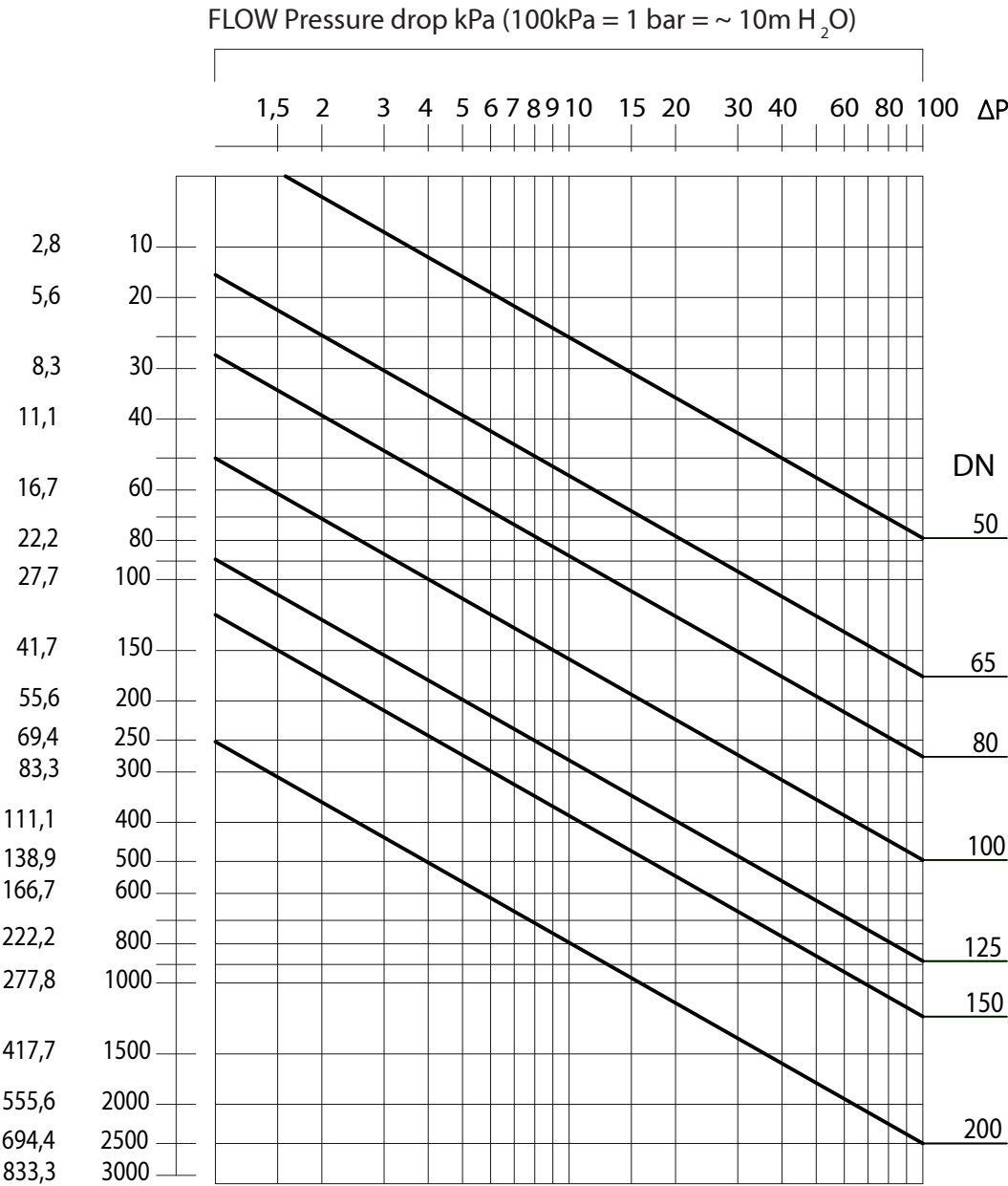
Materials

Body	VFY-WH: Ductile iron EN GJS 400-15 ¹⁾ VFY-LH: Ductile iron EN GJS 400-15 DN50-150 ²⁾ or Ductile iron EN GJS 400-15 DN200
Disc	Ductile iron EN GJS 400-15 (DIN GGG 40) with Epoxy coating or Stainless Steel
Shaft	Stainless steel AISI 420
Liner	EPDM
Circlip	Steel XC 75 / Stainless steel
O-ring	Nitrile/Viton
Upper guide bush	Zinc coated S. + PTFE
Lower guide bush	Zinc coated S. + PTFE
Cap	EN GJS-400-15/EN GJL-250
Hand lever	EN GJS-400-15

¹⁾ Changed from Cast iron EN GJL 250 (DIN GG25) in Q4/2024

Pressure and temperature data



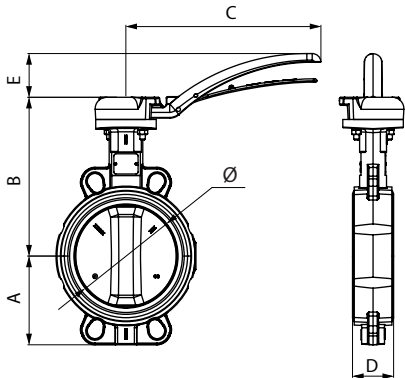


l/sec m³/h
Flow Rate
(liquid with specific a gravity of 1)



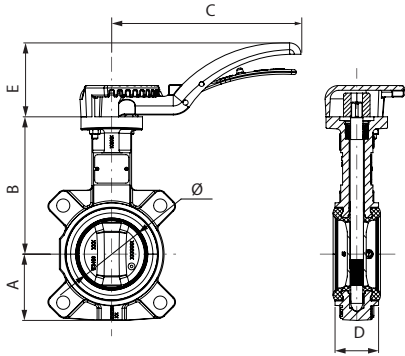
Dimensions

VFY-WH



DN	Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Weight, (kg)
32/40	43	57	163	200	33	45	2.4
50	54	62	169	200	43	45	3.3
65	70	70	178	200	46	45	3.6
80	85	89	184	200	46	45	4.0
100	100	106	208	200	52	45	6.3
125	125	120	223	290	56	65	7.5
150	150	131	236	290	56	65	8.5
200	200	165	258	290	60	65	12.2

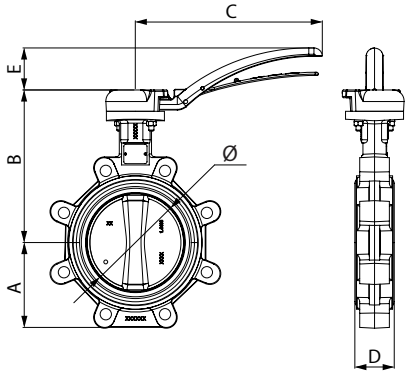
VFY-LH



DN	Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Weight (kg)
32/40	43	57	163	200	33	45	2.8
50	54	62	169	200	43	45	3.7
65	70	70	178	200	46	45	4.1



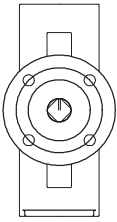
VFY-LH (continued)



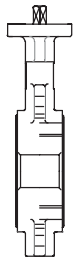
DN	Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Weight (kg)
80	85	89	184	200	46	45	5.1
100	100	106	208	290	52	65	7.6
125	125	120	223	290	56	65	10.0
150	150	131	236	290	56	65	11.0
200	200	162	290	290	60	98	17.2

Installation

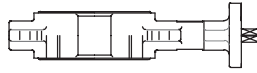
Installation positions



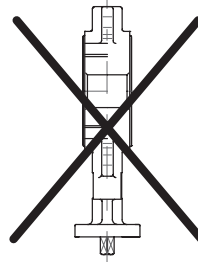
Recommended



Possible



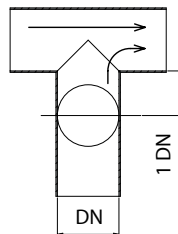
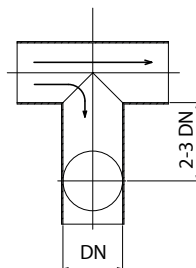
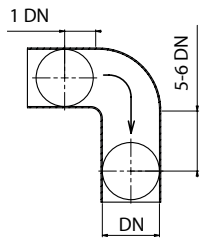
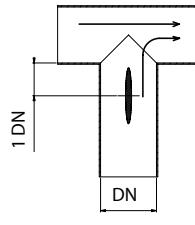
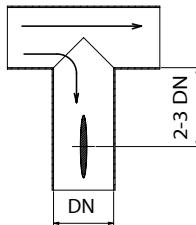
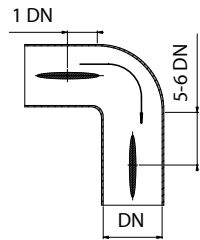
Possible



Not recommended

Installation conditions

It is recommended that distances indicated below are respected in order to prolong lifetime of the valve. Mounting the valve close to pipework junctions (turbulent zones) increases wear.



Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

Approval type	Title	Issuer	Approval topic
EU Declaration	<u>Danfoss EU</u> <u>BF234186516731en-000502.02</u>	Danfoss	Pressure, PED
Pressure Safety Certificate	<u>LLC CDC EURO-TYSK</u> <u>UA.TR.089.1228.25-21</u>	LLC CDC EURO TYSK - Ukraine	Pressure, PED
UA Declaration	<u>Danfoss UA 2023-01-10</u> <u>butterfly valves PL08</u>	Danfoss	Pressure, PED
Export Control Declaration	<u>Butterfly valves</u>	Danfoss	
UA Declaration	<u>4) Declaration Shut-off and</u> <u>regulating valves</u>	Danfoss	PED
EU Declaration	<u>PL32 Packaging EU DoC</u>	Danfoss	Packaging, PPWR
EU Declaration	<u>Packaging EU Declaration of</u> <u>Conformity 260707EN0801</u>	Danfoss	Packaging, PPWR

Directive 2014/68/UE Equipments under pressure

Products manufactured in conformity with the requirements of the directive, according to pressure, DN and fluid. Relevant for countries following this Directive (ie, PED).

Family		DN (mm)	Cat.	Mounting	PFA	PS				
					water	L1	L2	G1	G2	
VFY DN25 to 350 mm with EPDM liner	10 bar	25 to 100	453	Flanges	10	10	10	-	10	
				End of line	6	6	6	-	6	
		125 to 350	I	Flanges	10	10	10	-	10	
				End of line	6	6	6	-	6	
	16 bar	32 to 100	453	Flanges	16	16	16	-	10	
				End of line	12	12	12	-	10	
		125	I	Flanges	16	16	16	-	10	
				End of line	12	12	12	-	10	
		150	I	Flanges	16	10	16	-	10	
				End of line	12	6	12	-	10	
		200 to 300	I	Flanges	16	10	16	-	10	
				End of line	10	6	10	-	10	
		350	I	Flanges	16	10	16	-	10	
				End of line	8	6	8	-	8	
		20 bar	32 to 250	453	Flanges	20	-	20	-	-
					End of line	12	-	12	-	-
	300 to 350		I	Flanges	20	-	20	-	-	
				End of line	12	-	12	-	-	
	25 bar	32 to 150	453	Flanges	25	-	25	-	-	
				End of line	16	-	16	-	-	
VFY DN400 to 1200 mm with EPDM liner	10 bar	400 to 1200	I	Flanges	10	10	10	-	-	
				End of line	6	6	6	-	-	
	16 bar	400 to 1200	I	Flanges	16	-	16	-	-	
				End of line	8	-	8	-	-	
	20 bar	400 to 600	I	Flanges	20	-	20	-	-	
End of line				10	-	10	-	-		
PS: Maximum allowable pressure (bars) in accordance with directive 2014/68/EC				L1: Group 1 liquid - Hazardous fluid category L2: Group 2 liquid - Other fluids						
PFA: Allowable operating pressure (bars) for supply, distribution and disposal of water				G1: Group 1 gas - Hazardous gas category						
				G2: Group 2 gas - Other gasses						

Contact details

Online support

Danfoss offers a wide range of support along with our products, including digital information, software, mobile apps and expert guidance. See the possibilities below.



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