

Data sheet

Butterfly valves with gear box VFY-WG, VFY-LG

Description



Features:

- 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
- Position indicator

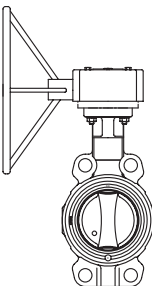
Main Data:

- DN 50-350
- k_{vs} 79-8520 m³/h
- PN 16
- EPDM Liner
- Stainless steel or Ductile iron Epoxy Coated disc
- Medium:
 - Circulation water, drinking water or chilled glycolic water up to 50 %
- Medium Temperature:
 - 10 ... 120 °C (EP disc)
 - 10 ... 130 °C (SS disc)
- Wafer or Lug connection
- Approvals:



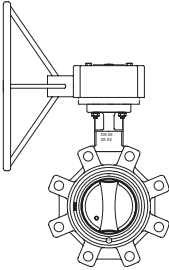
Ordering

Wafer type **VFY-WG**

	DN	k_{vs} (m ³ /h)	PN	T _{max} (°C)	Disc	Code No.
	50	79	16	130	Stainless Steel	065B7440
	65	174				065B7441
	80	275				065B7442
	100	496				065B7443
	125	883				065B7444
	150	1212				065B7445
	200	2500				065B7446
	250	3948				065B7457
	300	5635				065B7458
	350	8520				065B7449
	50	79	16	120	Ductile iron Epoxy Coated	065B8420
	65	174				065B8421
	80	275				065B8422
	100	496				065B8423
	125	883				065B8424
	150	1212				065B8425
	200	2500				065B8426
	250	3948				065B8427
	300	5635				065B8428
	350	8520				065B8429

Ordering

Lug type **VFY-LG**

	DN	k _{vs} (m ³ /h)	PN	T _{max} (°C)	Disc	Code No.
	50	79	16	130	Stainless Steel	065B7460
	65	174				065B7461
	80	275				065B7462
	100	496				065B7463
	125	883				065B7464
	150	1212				065B7465
	200	2500				065B7406
	250	3948				065B7407
	300	5635				065B7408
	350	8520				065B7469
	50	79	16	120	Ductile iron Epoxy Coated	065B8430
	65	174				065B8431
	80	275				065B8432
	100	496				065B8433
	125	883				065B8434
	150	1212				065B8435
	200	2500				065B8436
	250	3948				065B8437
	300	5635				065B8438
	350	8520				065B8439

Spare parts

Replacement Liner **VFY-W Liner**

DN	PN	Liner	Code No.
50	16	EPDM	065B7582
65			065B7583
80			065B7584
100			065B7585
125			065B7578
150			065B7579
200			065B7592
250			065B7593
300			065B7594
350			065B7591

Replacement gearbox **VFY-Gearbox**

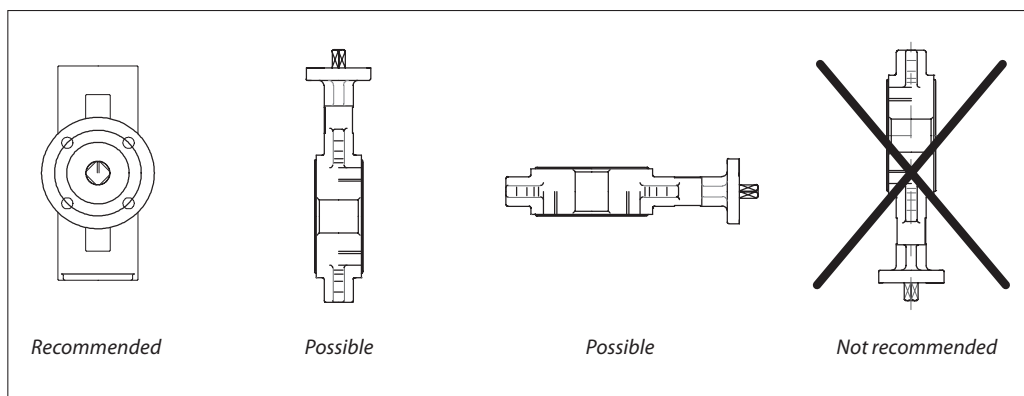
for DN	Code No.
50/65/80/100	065B7595
125/150/200	065B7596
250	065B7598
300	065B7599
350	065B7600

Technical data

Type			VFY-WG	VFY-LG
Nominal diameter	DN		50-350	
k_{vs} value	m ³ /h		79-8520	
Rotation angle			90 °	
Leakage rate			Acc. to PED 2014/68/EU, EN 12266-1, Rate A ¹⁾	
Nominal pressure	PN		16	
Medium			Circulation water, Glycolyc water up to 50 % or drinking water	
Medium temperature	EP disc	°C	-10 ... 120 (see p-T diagram)	
	SS disc		-10 ... 130 (see p-T diagram)	
Connection			Wafer (centering lugs)	Lug (Tapped lugs)
Mounting			mounting between flanges	mounting deadline
Material				
Body			Cast iron EN GJL 250 (DIN GG25) DN 50-300 Ductile iron (DIN GGG40) DN 350	Cast iron EN GJL 250 (DIN GG25) DN 50-150 Ductile iron (DIN GGG40) DN 200-350
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	
Gear box			Aluminium	

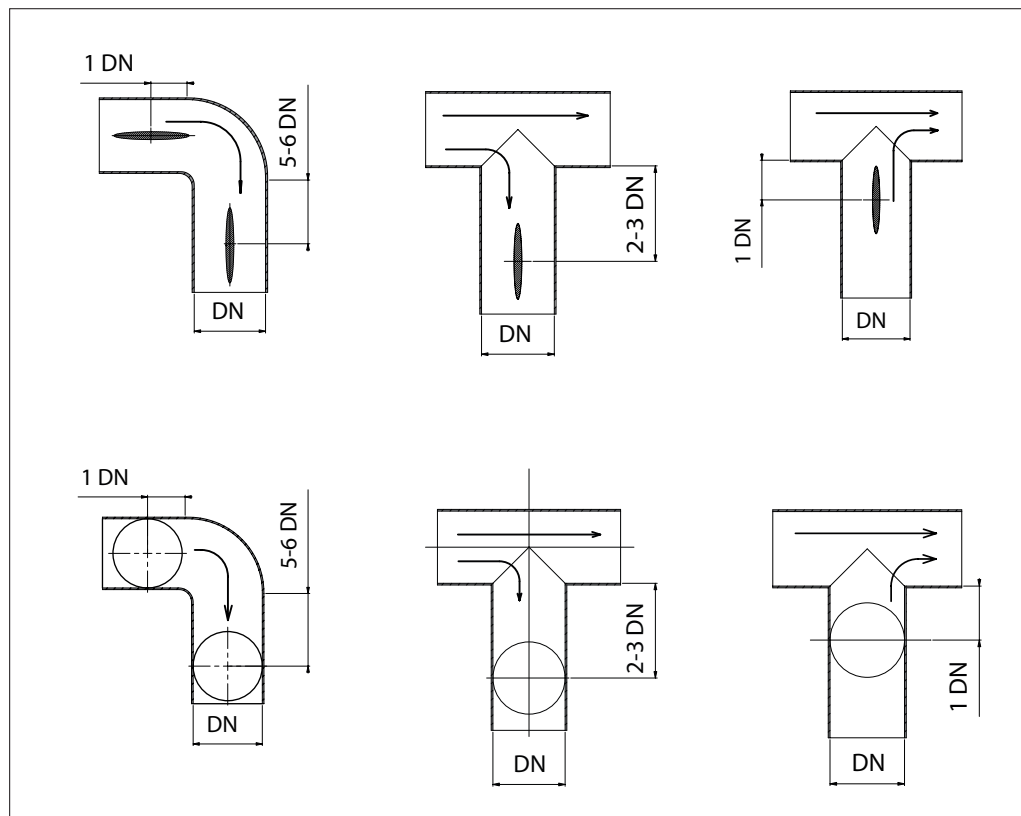
¹⁾ No visible detectable leakage during the testing procedure

Installation positions

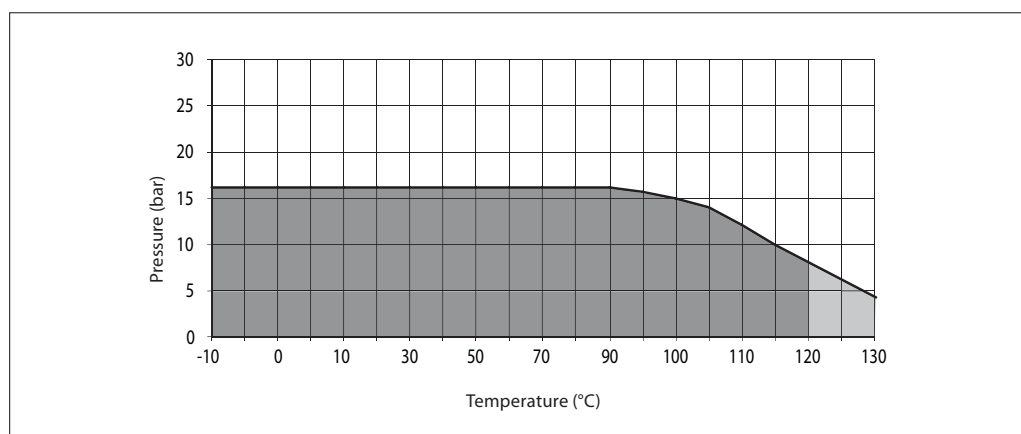


Installation conditions

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.

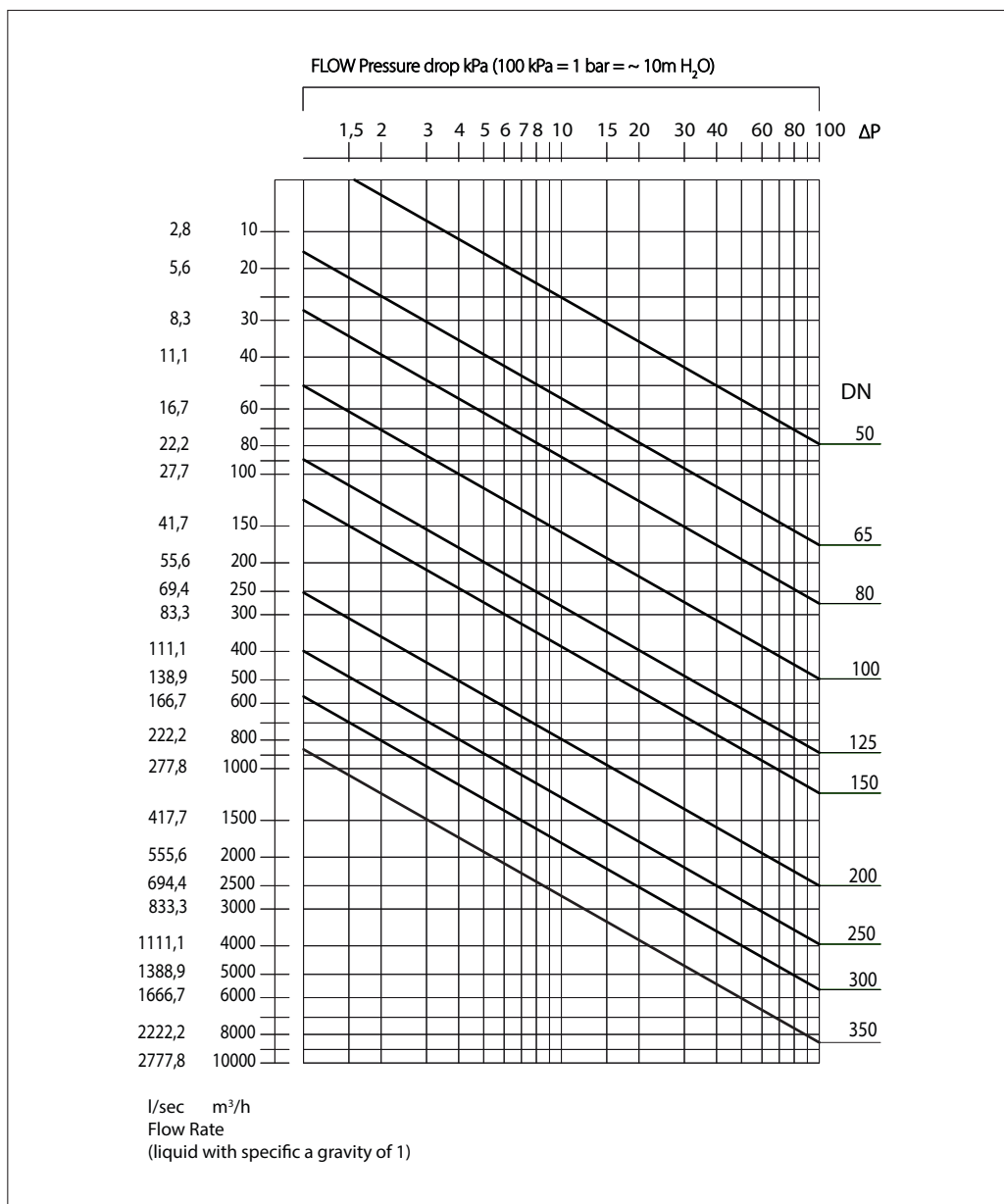


P-T diagram



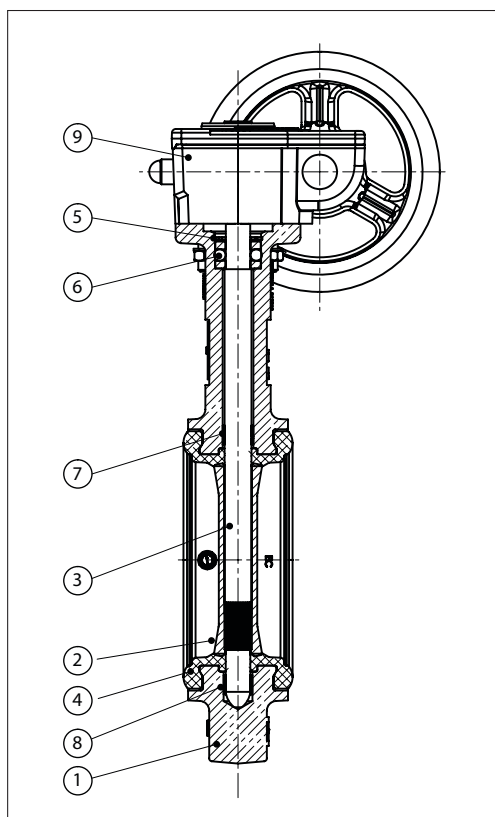
Headloss diagram

For water at 20 °C

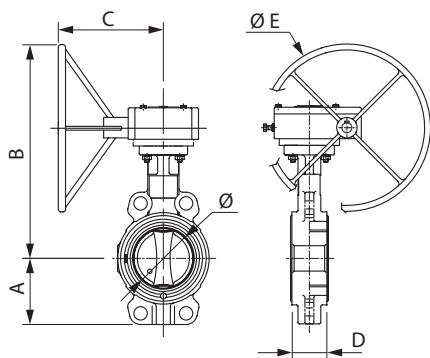


Design

1. Body
2. Disc
3. Shaft
4. Liner
5. Circlip
6. O-ring
7. Upper guide bush
8. Lower guide bush
9. Gear box

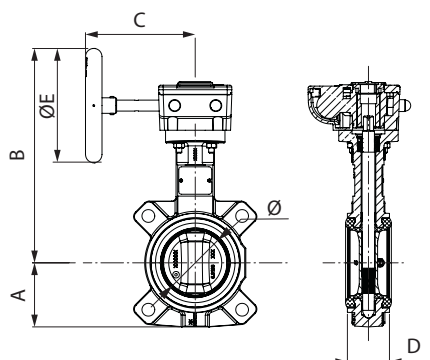


Dimensions



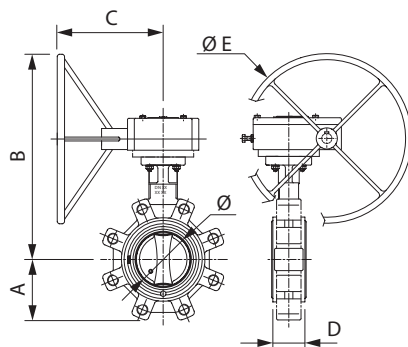
Waffer type **VFY-WG**

DN	Ø	A	B	C	D	ØE	Weight (kg)
50	54	62	225.5	120	43	125	3.6
65	70	70	234.5	120	46	125	4
80	85	89	240.5	120	46	125	4.3
100	100	106	264.5	120	52	125	6.3
125	125	120	279.5	120	56	125	7.4
150	150	131	292.5	120	56	125	8.5
200	200	166	315	120	60	125	12.3
250	250	196	429	239	70	250	25.2
300	300	238	453	239	77	250	28.9
350	340	270	468	239	78	250	41.4



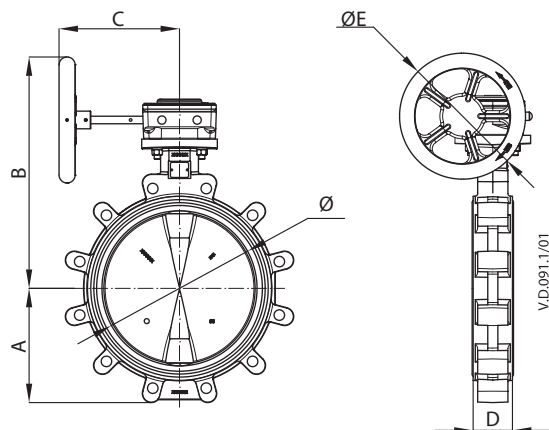
Lug type **VFY-LG**

DN	Ø	A	B	C	D	ØE	Weight (kg)
50	54	62	225.5	120	43	125	4
65	70	70	234.5	120	46	125	4.5



Lug type **VFY-LG**

DN	Ø	A	B	C	D	ØE	Weight (kg)
80	85	89	240.5	120	46	125	5.4
100	100	103	264.5	120	52	125	7.9
125	125	119	279.5	120	56	125	9.9
150	150	133	292.5	120	56	125	11.9



Lug type **VFY-LG**

DN	Ø	A	B	C	D	ØE	Weight (kg)
200	200	162	315	120	60	125	17
250	250	198	429	239	68	250	30.8
300	300	227	453	239	77	250	38.3
350	340	248	468	239	78	250	49.7



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