



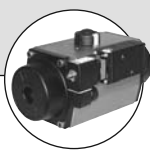
- Shut off pressure up to 20 bar
- Self centering disc, pinless design (No bolt through disc and shaft)
- Low pressure drop, minimum turbulence
- Abrasion and corrosion resistant
- Epoxy painted valve body
- Lever or Gear Operated

Type ST2670-MV can be combined with...



**Type 3003**

Electric Actuator



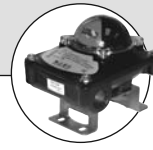
**Type 2050QT-SR**

Spring return  
Pneumatic actuator



**Type 2050QT-DA**

Double acting  
Pneumatic actuator



**Type 1062QT**

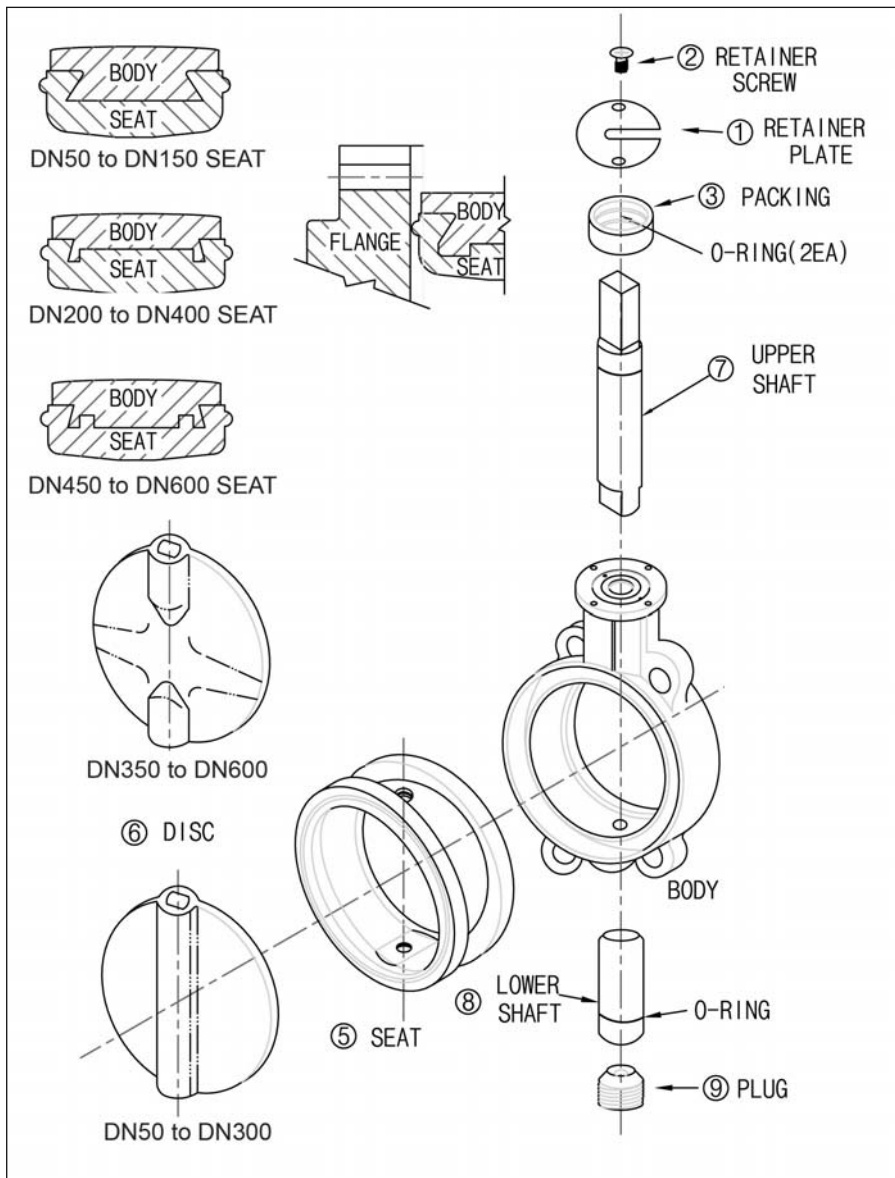
Limit switch box

The ST2670-MV-Wafer is a lever or gear operated quarter turn wafer pattern butterfly valve. The valve is designed in accordance to API standard 609, MS-SP67, BS5155, ISO5752.

With its resilient seat design, the valve is design to provide perfect shut off pressure of up to 20 bar for valve size DN50 to DN300 and 16 bar for valve size DN350 to DN600. The disc and shaft are connected using a 2 pieces shaft, pinless design. Spherically machined and hand polished, the disc has a self centering feature that ensures geometrical and dimensional stability for bubble tight shut off, low rotating torque and long life cycle. The valve can be easily installed between flanges with no gasket required. The valve can be manually operated or retrofitted to many type of pneumatic or electric actuator with its top flange dimension in accordance with ISO5211.

Technical Data	
Size	DN 50 - DN 600
Body material	Ductile iron On request - Cast iron or Stainless steel
Disc material	SS 316 Other materials on request
Stem material	SS 316 or SS 410 Other materials on request
Seat material	EPDM On request - FKM, PTFE
Design	Wafer pattern In accordance to BS5155, ISO5752, API609 and MS-SP67
Installation	Suitable for mounting between ANSI 150#, PN10, PN16, JIS5K, JIS10K flanges
Hydro Test DN50 to DN300	Body: 24 bar Seat: 22 bar
DN350 to DN600	Body: 24 bar Seat: 17.6 bar
Medium Pressure DN50 to DN300 DN350 to DN600	Max. 20 bar Max. 16 bar (Subjected to pressure limitation in accordance to mounting flanges standard and temperature limitation in accordance to choice of seat material)
Medium Temperature EPDM VITON PTFE/EPDM	-30°C to + 110°C -10°C to + 160°C -10°C to + 130°C
Rotation	90° ±3°
Rotation time for 90°	depending on load and force

Exploded View



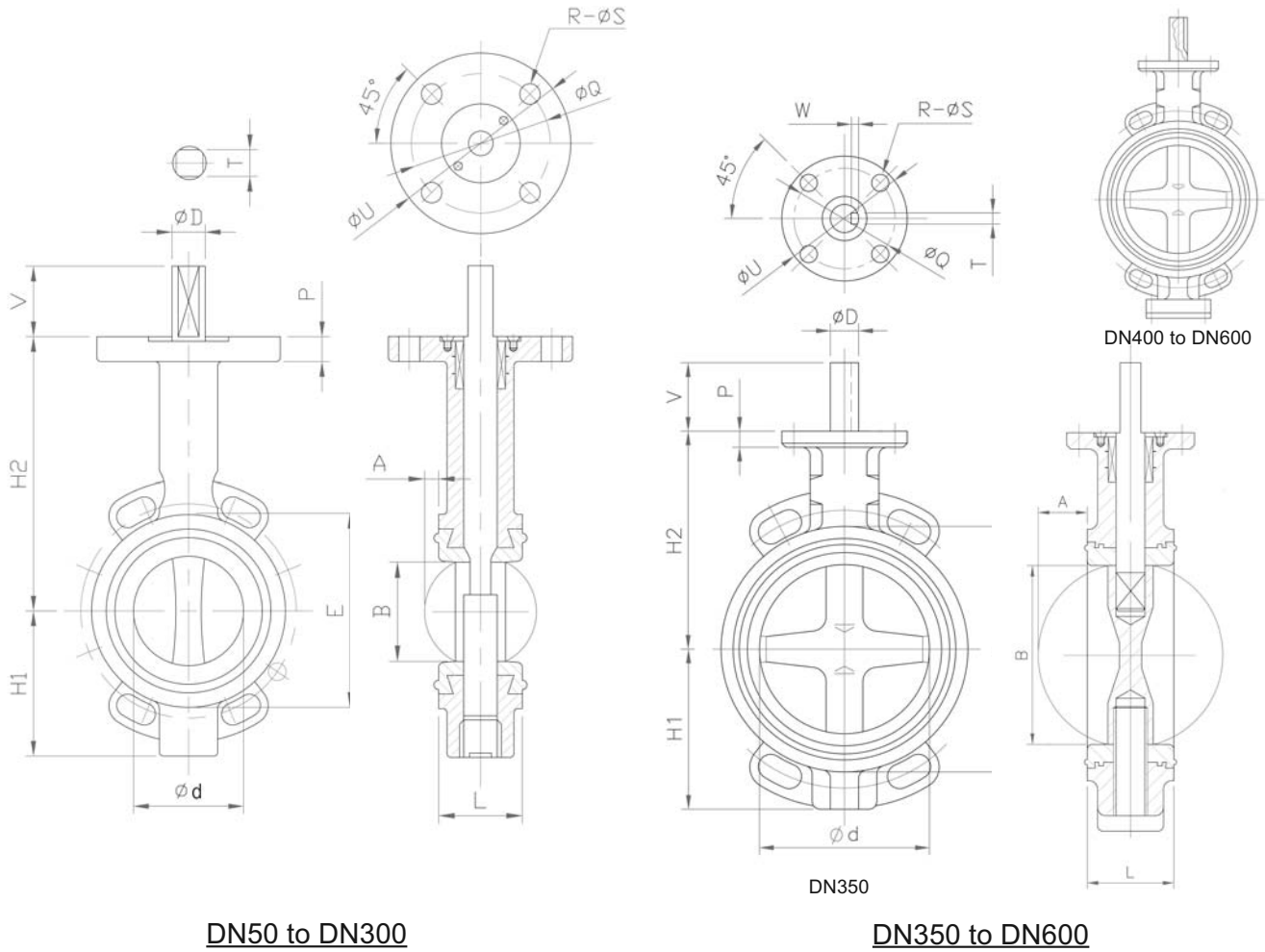
Torque & Weight

Size (mm)	Media (Water) Pressure Break Torque (Nm)		Weight (Kg)		
	10 bar	16 bar	Valve (bare shaft)	Lever Operator	Gear Operaor
50	22	23	3.5	0.51	3.6
65	30	34	3.8	0.51	3.6
80	33	42	4.3	0.51	3.6
100	35	48	5.5	0.51	3.6
125	83	103	7.2	0.59	3.6
150	111	158	8.4	0.59	3.6
200	192	299	12.0	1.80	3.6
250	355	481	20.0	1.83	7.0
300	432	549	30.0	1.90	7.0
350	901	1,170	40.0	-	18.8
400	1,178	1,531	62.0	-	18.8
450	1,584	2,058	100.0	-	18.8
500	1,956	2,542	110.0	-	23.0
600	3,152	4,095	210.0	-	23.0

NOTE

- All torque values shown are approx. average test values
- All torque values shown were derived from using standard valve with EPDM seat and test data using water at 20°C
- All torque values shown are inclusive of 30% safety factor to average test values
- For dry gases application, multiply these values by a factor of min. 1.6

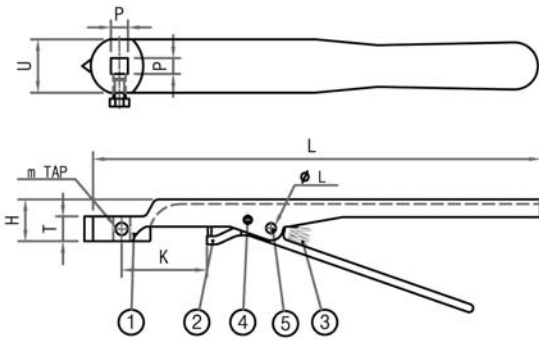
Dimensions



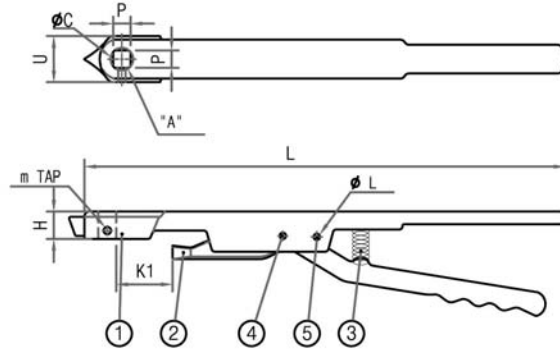
Size	Shaft				Top Flange						Out Line Dimension						
DN	Ø D	T	V	W	P	Ø Q	R	Ø S	Ø U	ISO 5211	L	Ø d	H1	H2	E	A	B
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
50	14	11	15.2	--	14	70	4	9	90	F07	43.0	52.0	75.0	133.0	94.0	4.5	49.0
65	14	11	15.2	--	14	70	4	9	90	F07	46.0	67.0	80.0	141.0	109.0	10.5	64.0
80	16	14	15.2	--	14	70	4	9	90	F07	46.0	80.0	95.0	145.0	123.0	17.0	77.0
100	16	14	17.7	--	16	70	4	9	90	F07	52.0	100.0	110.0	166.5	147.0	24.0	97.0
125	19	14	17.7	--	16	70	4	9	90	F07	56.0	125.0	123.0	190.5	173.0	34.5	122.0
150	22	17	19	--	16	70	4	9	90	F07	56.0	150.5	143.0	206.5	202.0	47.3	148.0
200	22	17	20.5	--	17	70	4	9	90	F07	60.0	196.5	168.0	240.0	251.0	68.3	193.5
250	28	22	20.5	--	20	102	4	12	125	F10	68.0	247.0	203.0	286.0	318.0	89.5	245.0
300	28	22	24.1	--	20	102	4	12	125	F10	78.0	295.5	242.0	313.0	362.0	108.8	293.0
350	28	10	71.5	5	20	102	4	12	125	F10	78.0	330.0	264.5	345.5	415.0	126.0	326.0
400	32	10	80	5	23	140	4	18	175	F14	102.0	379.0	305.5	349.5	462.0	138.5	376.5
450	38	12	80	5	23	140	4	18	175	F14	114.0	437.0	350.0	400.0	527.0	161.5	434.0
500	45	12	90	5	23	165	4	22	210	F16	127.0	490.0	380.0	440.0	578.0	181.5	486.0
600	55	14	95	5	23	165	4	22	210	F16	154.0	574.5	440.0	510.0	680.0	210.3	570.5

Dimensions

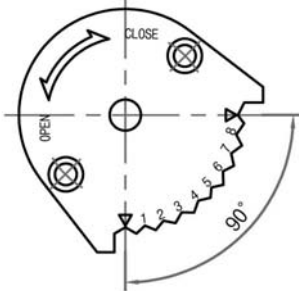
Lever for DN50 to DN150



Lever for DN200 to DN300

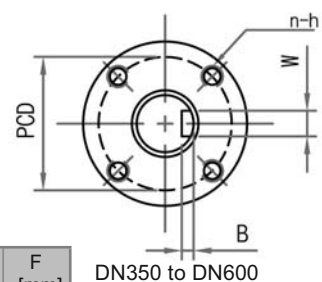
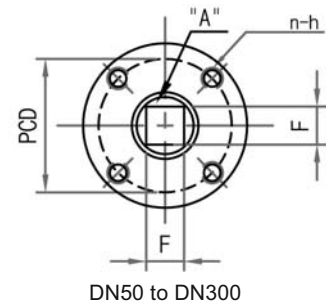
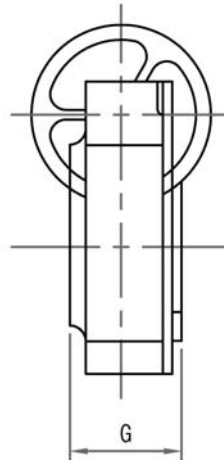
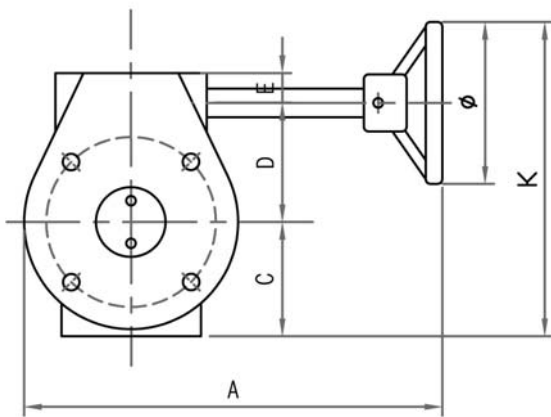


10 Position Indicator



Valve Size [mm]	ØC [mm]	P [mm]	T [mm]	L [mm]	m [mm]	U [mm]	H [mm]	K [mm]	K1 [mm]	ØL [mm]
50/65	-	11	16	288.7	M8	34	27	55	-	6
80	-	14	18	288.7	M8	34	27	55	-	6
100	-	14	18	288.7	M8	34	27	55	-	6
125	-	14	18	288.7	M8	34	27	55	-	6
150	-	17	20	288.7	M8	34	27	55	-	6
200	22	17	-	453	M10	45	26	-	42	6
250/300	28	22	-	453	M8	45	26	-	53	6

Gear Operator



Valve Size [mm]	Gear-Ratio	A [mm]	G [mm]	C [mm]	D [mm]	E [mm]	K [mm]	Ø [mm]	n-h [mm]	PCD [mm]	B [mm]	W [mm]	F [mm]
50	24:1	222	72	54	45	28	174	147	4-M8	70	-	-	11
80	24:1	222	72	54	45	28	174	147	4-M8	70	-	-	14
100	24:1	222	72	54	45	28	174	147	4-M8	70	-	-	14
125	24:1	222	72	54	45	28	174	147	4-M8	70	-	-	14
150	24:1	222	72	54	45	28	174	147	4-M8	70	-	-	17
200	30:1	267	84	76	66	34	292	300	4-M8	70	-	-	17
250	30:1	267	84	76	66	34	292	300	4-M10	102	-	-	22
300	50:1	267	84	76	66	34	292	300	4-M10	102	-	-	22
350	50:1	346	88.6	78.5	77.5	39	308.5	300	4-M10	102	5	10	-
400	50:1	346	88.6	78.5	77.5	39	308.5	300	4-M16	140	5	10	-
450	50:1	346	88.6	78.5	77.5	39	308.5	395	4-M16	140	5	12	-
500	80:1	440	110	130	135	40	465	395	4-M20	165	5	12	-
600	80:1	440	110	130	135	40	465	395	4-M20	165	5	14	-

## Kv Value and Ordering Chart - Manual Operated Butterfly Valve

## With SS 316 Disc and SS 316 Stem

Valve Size (mm)	Body Material	Seat Material	Angle of Opening Kv value (Water) (m <sup>3</sup> /h)								Item No. (Complete with Lever or Gear operator)	Item No. (Bare Shaft)
			20°	30°	40°	50°	60°	70°	80°	90°		
50	Ductile iron	EPDM	6.7	7.8	16	24	48	62	95	116	SN41021	SN41001
65			8.6	13	23	38	73	95	145	181	SN41022	SN41002
80			13	20	34	56	112	142	216	267	SN41023	SN41003
100			23	35	61	99	198	259	401	466	SN41024	SN41004
125			50	74	129	211	414	526	845	948	SN41025	SN41005
150			83	121	211	345	677	871	1392	1647	SN41026	SN41006
200			142	211	354	591	1099	1478	2302	2746	SN41027	SN41007
250			220	328	560	974	1810	2328	3664	4224	SN41028 *	SN41008
300			319	466	819	1353	2629	3405	5129	6336	SN41029 *	SN41009
350			388	647	1120	1905	3517	4836	6964	9665	On Request	SN41010
400			552	776	1483	2405	4310	6336	9284	11121	On Request	SN41011
450			630	1078	1978	3190	6078	7914	11983	15086	On Request	SN41012
500			785	1375	2457	3991	7414	9914	15121	19310	On Request	SN41013
600			1078	1974	3448	5250	10776	14224	20336	24397	On Request	SN41014

\* With Gear Operator

## With SS 316 Disc and SS 410 Stem

Valve Size (mm)	Body Material	Seat Material	Angle of Opening Kv value (Water) (m <sup>3</sup> /h)								Item No. (Complete with Lever or Gear operator)	Item No. (Bare Shaft)
			20°	30°	40°	50°	60°	70°	80°	90°		
50	Ductile iron	EPDM	6.7	7.8	16	24	48	62	95	116	SN41146	SN41137
65			8.6	13	23	38	73	95	145	181	SN41147	SN41138
80			13	20	34	56	112	142	216	267	SN41148	SN41139
100			23	35	61	99	198	259	401	466	SN41149	SN41140
125			50	74	129	211	414	526	845	948	SN41150	SN41141
150			83	121	211	345	677	871	1392	1647	SN41151	SN41142
200			142	211	354	591	1099	1478	2302	2746	SN41152	SN41143
250			220	328	560	974	1810	2328	3664	4224	SN41153 *	SN41144
300			319	466	819	1353	2629	3405	5129	6336	SN41154 *	SN41145
350			388	647	1120	1905	3517	4836	6964	9665	On Request	On Request
400			552	776	1483	2405	4310	6336	9284	11121	On Request	On Request
450			630	1078	1978	3190	6078	7914	11983	15086	On Request	On Request
500			785	1375	2457	3991	7414	9914	15121	19310	On Request	On Request
600			1078	1974	3448	5250	10776	14224	20336	24397	On Request	On Request

\* With Gear Operator