





# VALVE

PRODUCT MANUAL



SNOW PTE.LTD.

## ABOUT US

SNOW, since its establishment in 1986, has evolved into a comprehensive multinational brand specializing in pipelines and building materials with diversified development. Its business portfolio spans pipelines, building materials and home furnishings, new energy, and other sectors. The product range covers pipelines, plumbing and bathroom fixtures, waterproofing, resin tiles, and photovoltaics. SNOW is recognized as the world's largest manufacturer of piping systems.

Committed to research and innovation, SNOW boasts a dedicated team of over 1,000 researchers. The brand has played a pivotal role in developing and revising more than 120 international, national, and industry standards. With an active globalization strategy, SNOW continues to expand its footprint in the international markets, with over 30 major production bases established worldwide. Its industrial and sales network covers Asia, North America, South America, Europe, Africa and Oceania, ensuring a timely and efficient delivery of high-quality products and services across continents.

# 1986

SINCE

# 1000+

RESEARCHERS

# 120+

DEVELOPMENT AND REVISION  
OF INDUSTRY STANDARDS

# 30+

MAJOR  
PRODUCTION BASES



# Valve Series

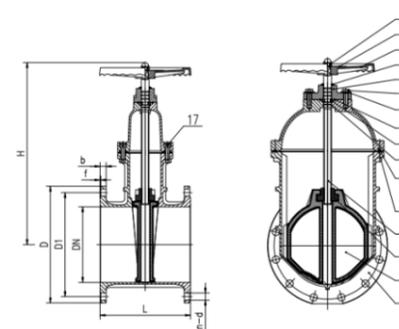
Gate Valve Series



Butterfly Valve Series

## Z45X Non-rising Stem Soft Seal Gate Valve

The valve offers the significant advantages such as easy switching, reliable sealing, good elastic memory and long service life. Featured by the adoption of full bore, non-rising stem operation, flange bolt connection, and flat-bottom valve seat, it ensures that no impurities are precipitated. The valve is widely used in fluid pipelines of the tap water, sewage, construction, petroleum, chemicals, foods, medicine, light textiles, electricity, ships, metallurgy, energy systems, and other areas as a regulating and intercepting device.



### Main Performance Parameters

Nominal Diameter	Nominal Pressure	Strength Pressure				Applicable Medium	Working Temperature
		Strength Test		Seal Test			
DN	Z45X-10Q 1.0MPa	Z45X-16Q 1.6MPa	Z45X-10Q 1.5MPa	Z45X-16Q 2.4MPa	Z45X-10Q 1.1MPa	Z45X-16Q 1.76MPa	Water gas etc ≤80°C

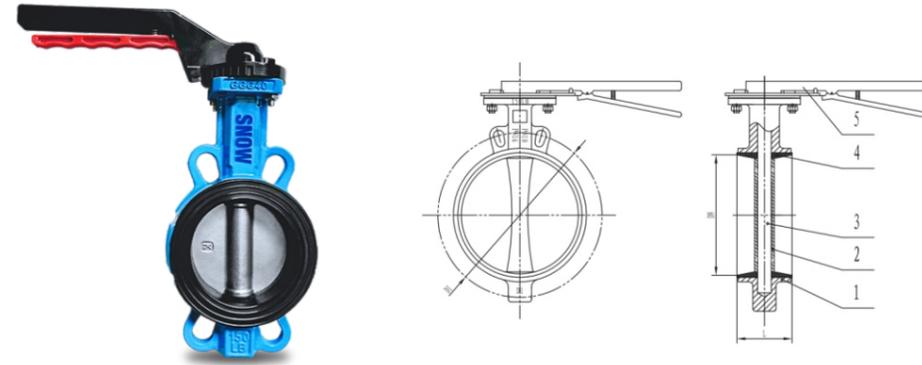
### Dimensions and Specifications

DN	D		D1		f	n-d		b	L	H
	Z45X-10Q	Z45X-16Q	Z45X-10Q	Z45X-16Q		Z45X-10Q	Z45X-16Q			
50	165	165	125	125	3	4-Φ19	4-Φ19	19	178	239
65	185	185	145	145	3	4-Φ19	4-Φ19	19	190	260
80	200	200	160	160	3	8-Φ19	8-Φ19	19	203	293
100	220	220	180	180	3	8-Φ19	8-Φ19	19	229	327
125	250	250	210	210	3	8-Φ19	8-Φ19	19	254	391
150	285	285	240	240	3	8-Φ23	8-Φ23	19	267	430
200	340	340	295	295	3	8-Φ23	12-Φ23	20	292	540
250	395	405	350	355	3	12-Φ23	12-Φ28	22	330	645
300	445	460	400	410	4	12-Φ23	12-Φ28	24.5	356	720

### Main Performance Indicators

Product Name	Model	Pressure Rating	Executive Standard	Main Material		Manufacturing Processes	Product Weight (Net Weight)
Z45X Non-rising Stem Soft Seal Gate Valve	Z45X-10Q-DN50	PN10	CJ/T 216-2013	Body	QT450-10	Casting, machining, grinding, spraying, plastics, assembly, pressure test, packaging	9kg
	Z45X-10Q-DN65						12.5kg
	Z45X-10Q-DN80						14kg
	Z45X-10Q-DN100						18.4kg
	Z45X-10Q-DN125						22kg
	Z45X-10Q-DN150						32kg
	Z45X-10Q-DN200	52kg					
	Z45X-10Q-DN250	84kg					
	Z45X-10Q-DN300	108kg					
	Z45X-16Q-DN50	PN16		Stem	2Cr13		9kg
	Z45X-16Q-DN65						12.5kg
	Z45X-16Q-DN80						14kg
	Z45X-16Q-DN100						18.4kg
	Z45X-16Q-DN125						22kg
	Z45X-16Q-DN150						32kg
	Z45X-16Q-DN200	52kg					
	Z45X-16Q-DN250	84kg					
	Z45X-16Q-DN300	108kg					
				Wedge	QT450-10+NBR	14kg	
						18.4kg	
				Wedge nut	QT450-10	22kg	
						32kg	
						52kg	
						84kg	
						108kg	

## D71X MANUAL WAFER BUTTERFLY VALVE



- 1. The valve is small and portable, easy to assemble, disassemble and maintain, and can be installed in any location.
- 2. Its structure is simple and compact, with 90° rotation for fast opening and closing.
- 3. Small operating torque to enable the effortless operation.
- 4. Up to 10,000 opening and closing tests are performed, ensuring it a long service life.
- 5. The flow characteristic tends to be straight, providing good regulation performance.
- 6. Complete sealing with zero leakage in gas tests.
- 7. Different options available; Materials of parts are suitable for various medium.

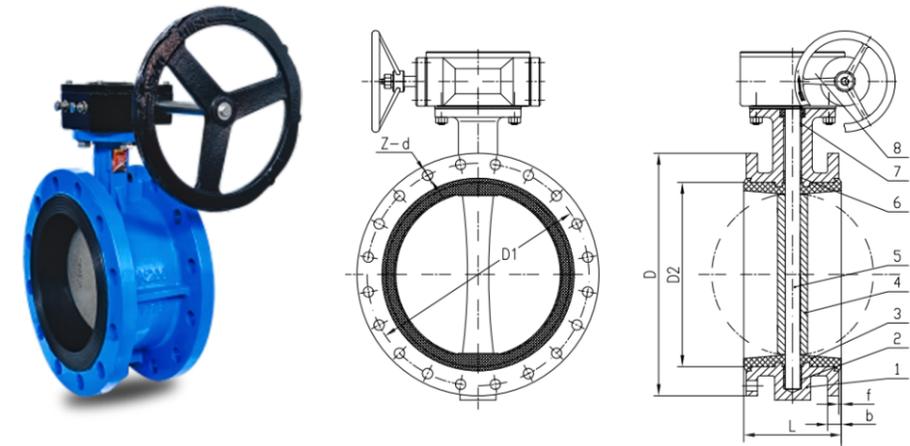
### Dimensions and Specifications

DN	A	B	C	D	L	h	Φ	Φ1	Φ2	n-Φ3		ΦK
										D71X-10Q	D71X-16Q	
50	126	73	42	201	230	32	150	125	120	4-19	4-19	57.15
65	137	82	44.7	212	230	32	150	145	140	4-19	4-19	57.15
80	142	91	45.2	217	230	32	150	160	150	8-19	8-19	57.15
100	164	107	52.1	239	250	32	150	180	175	8-19	8-19	69.85
125	176	127	54.4	251	270	32	150	210	210	8-19	8-19	69.85
150	198	143	55.8	273	270	32	150	240	240	8-23	8-23	69.85
200	230	170	60.6	313	359	45	300	295	290	8-23	12-23	88.9

### Main Performance Indicators

Product Name	Model	Pressure Rating	Executive Standard	Main Material		Manufacturing Processes	Product Weight (Net Weight)
D71X Manual Wafer Butterfly Valve	D71X-10Q-DN50	PN10	GB/T 12238-2008	Body	QT450-10	Casting, machining, grinding, spraying, plastics, assembly, pressure test, packaging	2.35kg
	D71X-10Q-DN65						2.7kg
	D71X-10Q-DN80						3.1kg
	D71X-10Q-DN100						4.5kg
	D71X-10Q-DN125						5.95kg
	D71X-10Q-DN150						6.9kg
	D71X-10Q-DN200	11.62kg					
	D71X-16Q-DN50	PN16		Stem	2Cr13		2.35kg
	D71X-16Q-DN65						2.7kg
	D71X-16Q-DN80						3.1kg
	D71X-16Q-DN100						4.5kg
	D71X-16Q-DN125						5.95kg
	D71X-16Q-DN150						6.9kg
	D71X-16Q-DN200	11.62kg		Butterfly disc	QT450-10		6.9kg
D71X-16Q-DN200	11.62kg						

## D341XN FLANGED WORM GEAR BUTTERFLY VALVE



### Main Performance Parameters

Nominal Diameter	Nominal Pressure		Test Pressure						Applicable Medium	Working Temperature		
	D341XN-10Q	D341XN-16Q	Strength		Forward Seal		Reversal Seal				Low-pressure Reverse Seal	
DN	1.0MPa	1.6MPa	1.5MPa	2.4MPa	1.1MPa	1.76MPa	1.1MPa	1.76MPa	0.05MPa	0.05MPa	Water	≤80°C

### Dimensions and Specifications

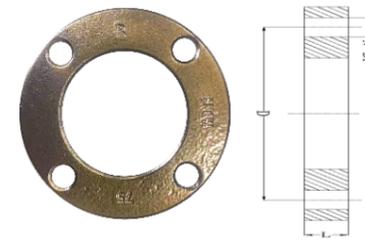
DN	D		D1		D2		f	n-d		b		L
	D341XN-10Q	D341XN-16Q	D341XN-10Q	D341XN-16Q	D341XN-10Q	D341XN-16Q		D341XN-10Q	D341XN-16Q	D341XN-10Q	D341XN-16Q	
50	165	160	99	125	99	100	3	4-Φ19	4-Φ18	19	16	108
65	185	180	118	145	118	120	3	4-Φ19	4-Φ18	19	18	112
80	200	195	132	160	132	135	3	8-Φ19	8-Φ18	19	20	114
100	220	215	156	180	156	155	3	8-Φ19	8-Φ18	19	20	127
125	250	245	184	210	184	185	3	8-Φ19	8-Φ18	19	22	140
150	285	280	211	240	211	210	3	8-Φ23	8-Φ23	19	24	140
200	340	335	266	295	266	265	3	8-Φ23	12-Φ23	20	26	152

### Main Performance Indicators

Product Name	Model	Pressure Rating	Executive Standard	Main Material		Manufacturing Processes	Product Weight (Net Weight)
D341XN Flanged Worm Gear Butterfly Valve	D341X-10Q-DN50	PN10	GB/T 12238-2008	Body	QT450-10	Casting, machining, grinding, spraying, plastics, assembly, pressure test, packaging	7.9kg
	D341X-10Q-DN65						9.4kg
	D341X-10Q-DN80						10.4kg
	D341X-10Q-DN100						11.8kg
	D341X-10Q-DN125						16.6kg
	D341X-10Q-DN150						19.2kg
	D341X-10Q-DN200	30kg					
	D341X-16Q-DN50	PN16		Disc	2Cr13		7.9kg
	D341X-16Q-DN65						9.4kg
	D341X-16Q-DN80						10.4kg
	D341X-16Q-DN100						11.8kg
	D341X-16Q-DN125						16.6kg
	D341X-16Q-DN150						19.2kg
	D341X-16Q-DN200	30kg		Butterfly disc	QT450-10		6.9kg
D341X-16Q-DN200	11.62kg						

Cast Iron Flange Connection Dimension (Executive Standard: GB/T 17241.7)

# FLANGE

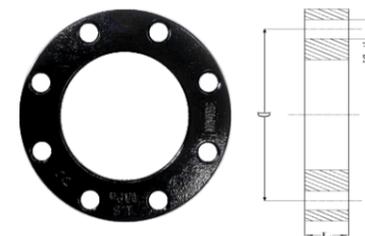


● Flanged PP-R Fittings

Pressure Rating	Specification (mm)	D	D1	N	L	Connection Bolt
1.6MPa	DN50	110	18	4	10	M16
1.6MPa	DN63	125	18	4	12	M16
1.6MPa	DN75	145	18	4	14	M16
1.6MPa	DN90	160	18	8	14	M16
1.6MPa	DN110	180	18	8	14	M16
1.6MPa	DN125	210	18	8	/	M16
1.6MPa	DN160	240	22	8	17	M20

● Butt Fusion Flanged PE Fittings

Pressure Rating	Specification (mm)	D	D1	N	L	Connecting Bolt
1.6MPa	DN50	110	18	4	/	M16
1.6MPa	DN63	125	18	4	/	M16
1.6MPa	DN75	145	18	4	14	M16
1.6MPa	DN90	160	18	8	14	M16
1.6MPa	DN110	180	18	8	14	M16
1.6MPa	DN125	210	18	8	/	M16
1.6MPa	DN160	240	22	8	16	M20
1.6MPa	DN200	295	22	12	20	M20



● Electro Fusion Flanged PE Fittings

Pressure Rating	Specification (mm)	D	D1	N	L	Connecting Bolt
1.6MPa	DN50	110	18	4	10	M16
1.6MPa	DN63	125	18	4	10	M16
1.6MPa	DN75	145	18	4	11	M16
1.6MPa	DN90	160	18	8	12	M16
1.6MPa	DN110	180	18	8	14	M16
1.6MPa	DN125	210	18	8	/	M16
1.6MPa	DN160	240	22	8	17	M20
1.6MPa	DN200	295	22	12	17	M20

