

## Product Selection Guide

<b>A</b>	<b>B</b>	<b>N</b>	<b>080</b>	<b>F</b>	<b>S</b>	<b>LO</b>	<b>B</b>	<b>1</b>	<b>R00</b>	<b>Version</b>	R00, R01 – RZY, RZZ
										<b>Quantity of sensors</b>	1 : 1 Sensor 2 : 2 Sensor
										<b>Power Option*</b>	B : Basic      S : with SPS P : with PFO    D : with SPS and PFO
										<b>Communication Interface</b>	R2 : RS-232    R4 : RS-485 LO : Logic      DN : DeviceNet PB : Profibus   EN : Ethernet CC : C -Link    EC : EtherCAT
										<b>Body Material</b>	A : Aluminum S : SUS
										<b>Method of contract</b>	K : ISO-KF F : ISO-F
										<b>Flange Size</b>	040 : DN40      050 : DN50 063 : DN63      080 : DN80 100 : DN100     160 : DN160 200 : DN200     250 : DN250
										<b>Sealing Type</b>	N : Non-Sealing S : Sealing
										<b>Valve Type</b>	B : Buterfly P : Pendulum
										<b>Valve Model</b>	A : APC

\* SPS = 15V DC Sensor Power Supply  
PFO = Power Failure Option (Vavle closes or opens automatically at power failure)

### Product List

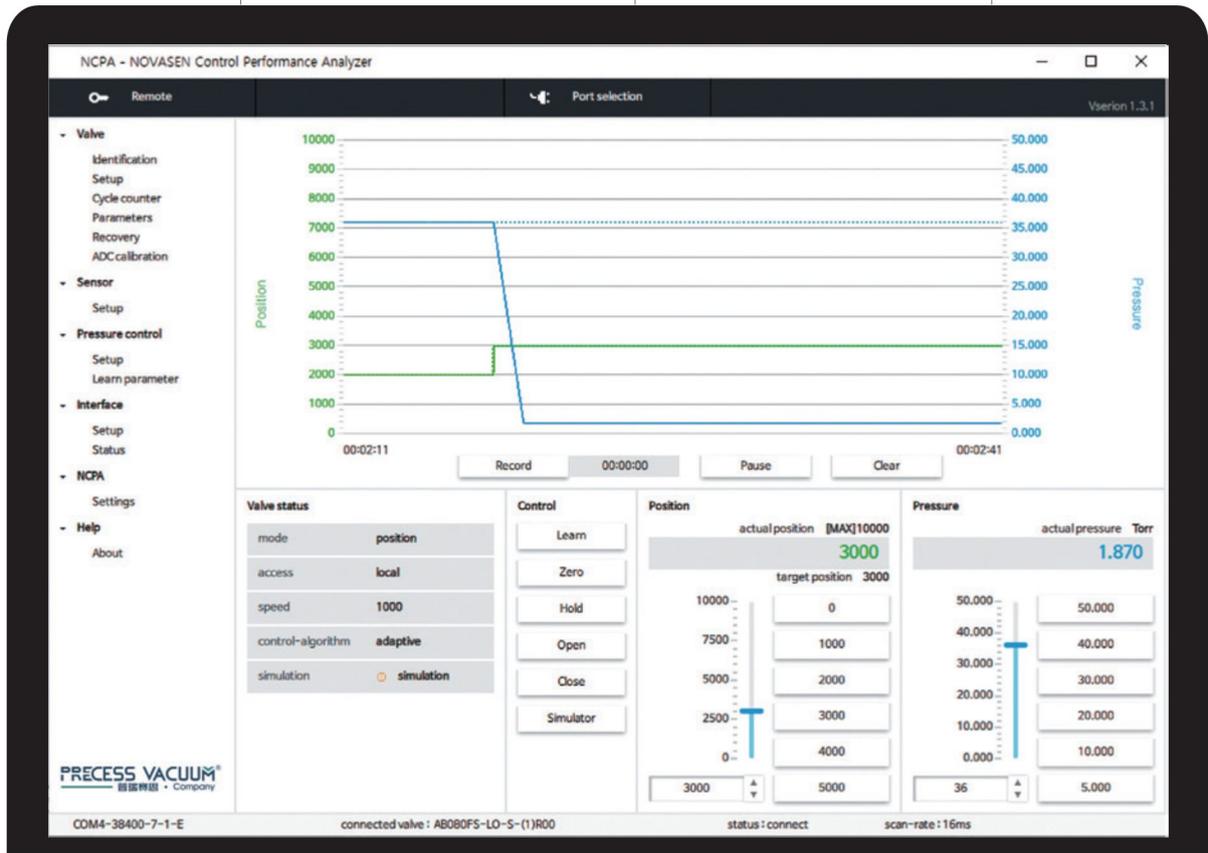


## Setup & Management

Status Monitoring

Position and Pressure Control  
Change Graph Watch and Save

Position and Pressure Control



Interface Setup

Auto Learn Mode

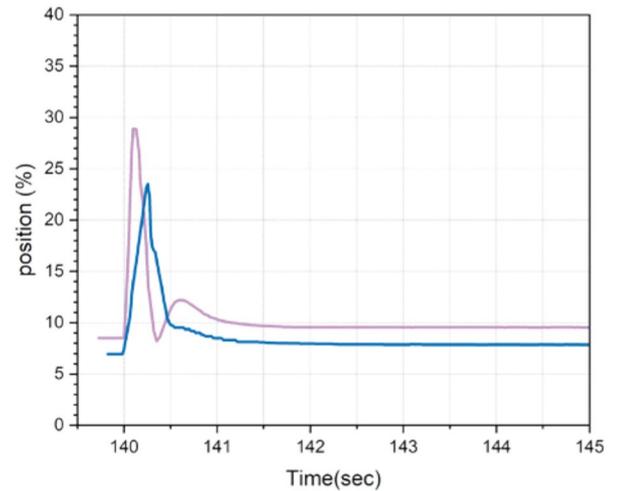
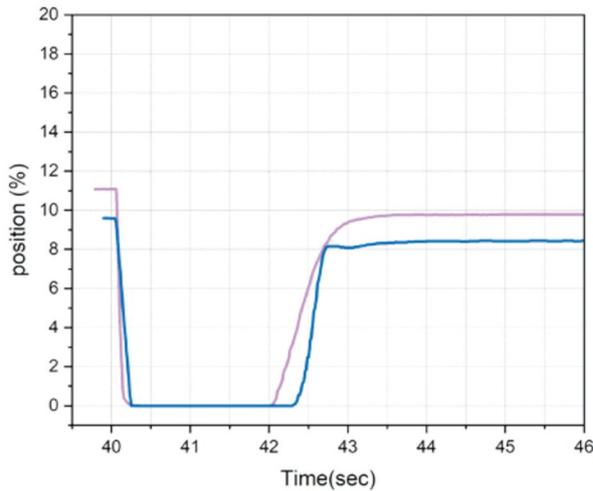
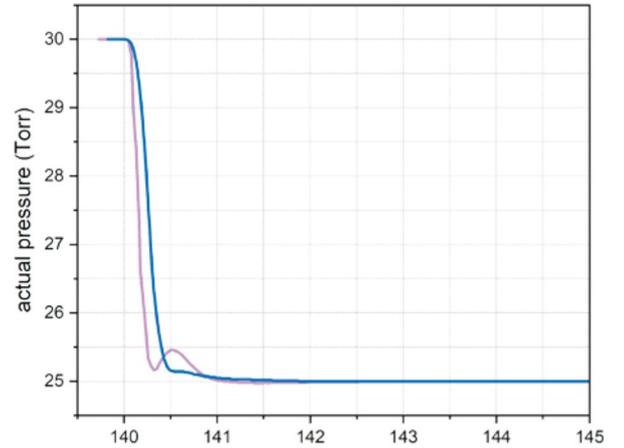
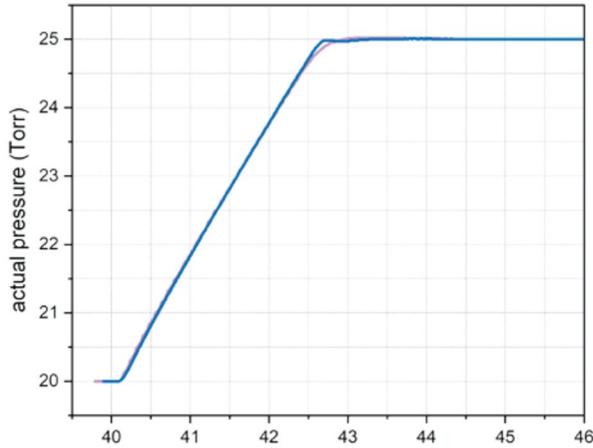
Valve / Sensor Setup

Learn Data Save / Load

## APC Butterfly Valve

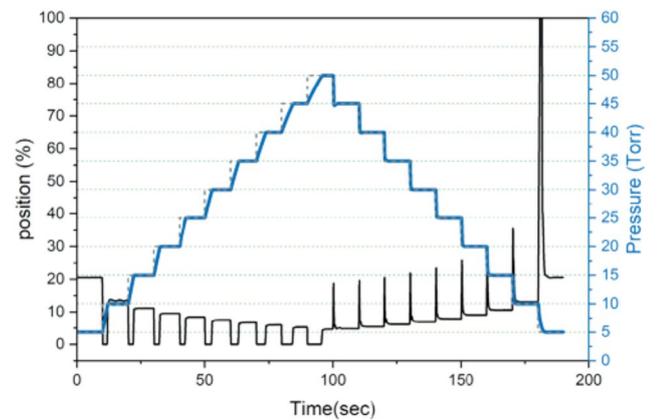
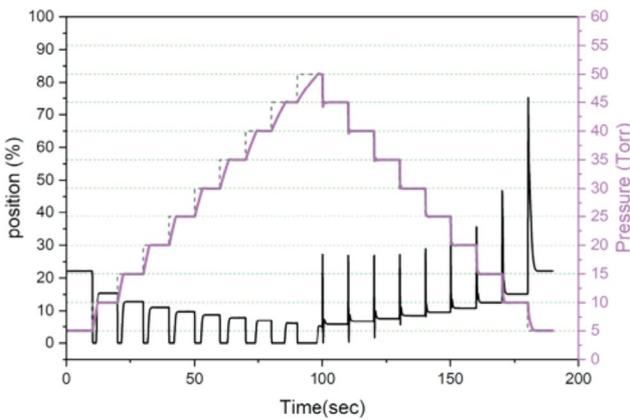
### Control Performance

■ PRECESS  
■ Competitor

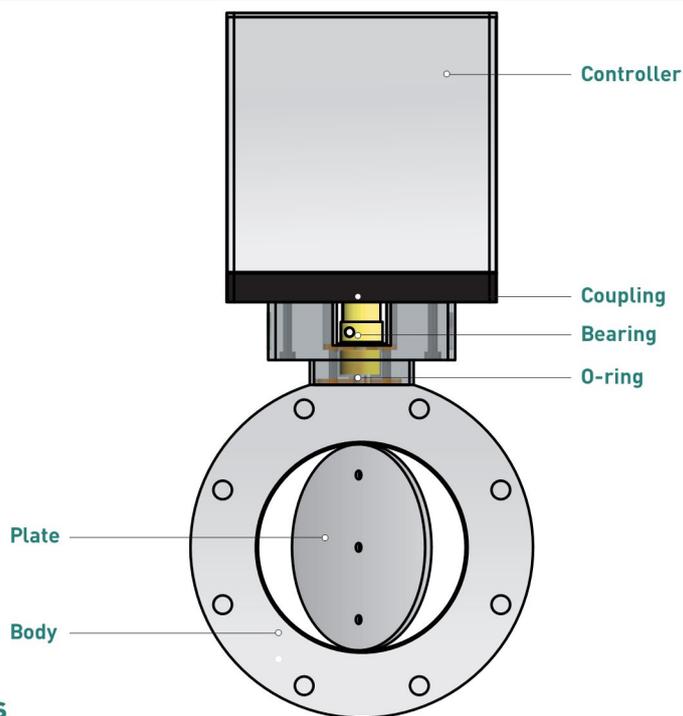


**Pressure Up**

**Pressure Down**



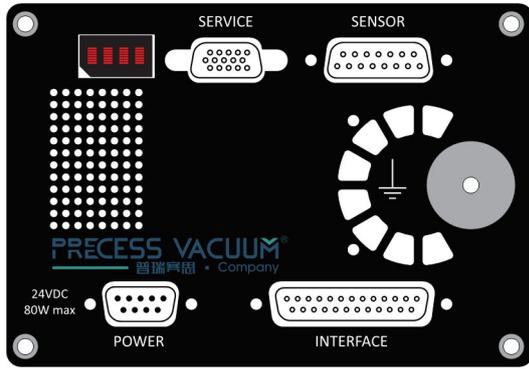
**Control Response**



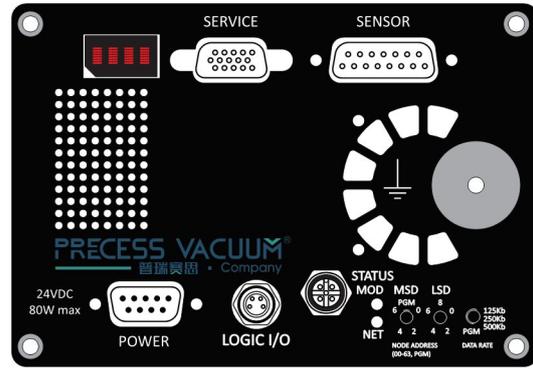
## Product Specifications

Pressure range at 20°C	1 × 10 <sup>-8</sup> mbar to 1.2 bar (abs)
Leak rate to outside at 20°C	<1 × 10 <sup>-9</sup> mbar l/s
Cycles until first service	2,000,000 (unheated and under clean conditions)
Admissible operating temperature	+10°C to +150°C
Mounting position	Any Control unit for ISO-KF version needs support when mounted on horizontal piping and control unit does not hang.
Wetted materials - Body, plate - Shaft - Plate screws	Body, Plate - Stainless steel 304 , aluminum 6061 Shaft - Stainless steel 316L Plate screws - Stainless steel 304
- Shaft seal	Viton® (standard). Other materials available on request. Seal materials are v declared on dimensional drawing of specific valve ordering number.
- Slide bearing for shaft	iglidur® X
Power input <sup>1)</sup>	+24 VDC ( ± 10%) @ 0.5V pk-pk max.[connector: POWER]
Power Consumption	80 W max. (operation of valve with max. load) without PFO4)
Sensor power supply <sup>2)</sup>	
- Input	+24 VDC / 1500 mA max. [connector: POWER]
- Output	15 VDC ( ± 5%) / 667 mA max. [connector:SENSOR]
Sensor input	
- Signal input	0-10 VDC / Ri > 100 kΩ [connector: SENSOR]
- ADC resolution	0.16 mV
- Sampling time	1 ms
Digital inputs <sup>3)</sup>	24 VDC max.
Digital outputs <sup>3)</sup>	
- Input voltage	70 VDC or 70 V peak max.
- Input current	0.5 ADC or 0.5 A peak max.
- Breaking capacity	10 W max.
Ambient temperature	0 °C to +50 °C max. (< 35°C recommended)
Pressure control accuracy	5 mV or 0.1% of setpoint, whichever is greater
Position resolution / position control capability	20000
Actuating closing time	0.3 s typ.
opening	0.3 s typ.
Utilizable valve torque	2.5 Nm

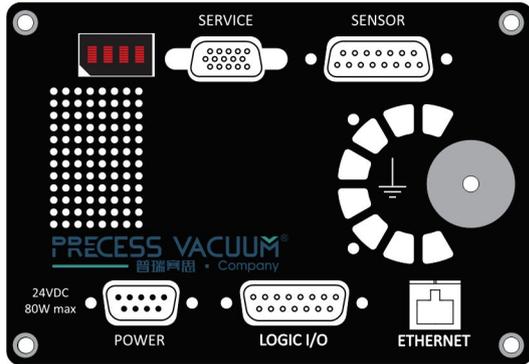
1) Internal overcurrent protection by a PTC device. 2) Refer to chapter «Sensor supply concepts» for details. 3) Refer to chapter «Schematics» for details.



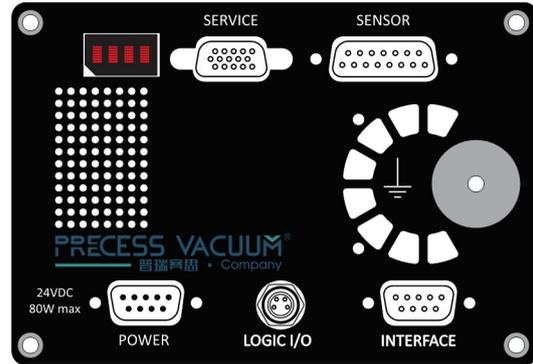
RS232, Logic, RS422, RS485



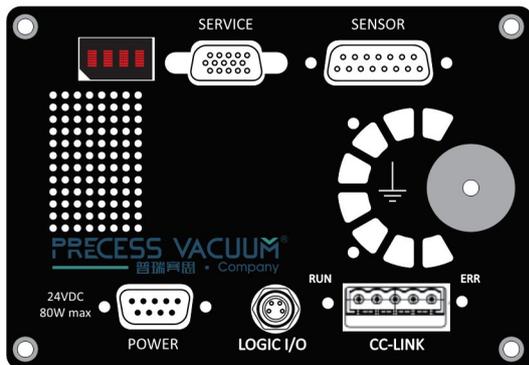
DeviceNet



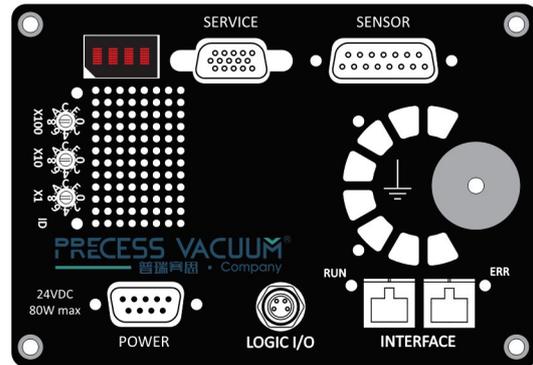
Ethernet



Profibus



CC-Link



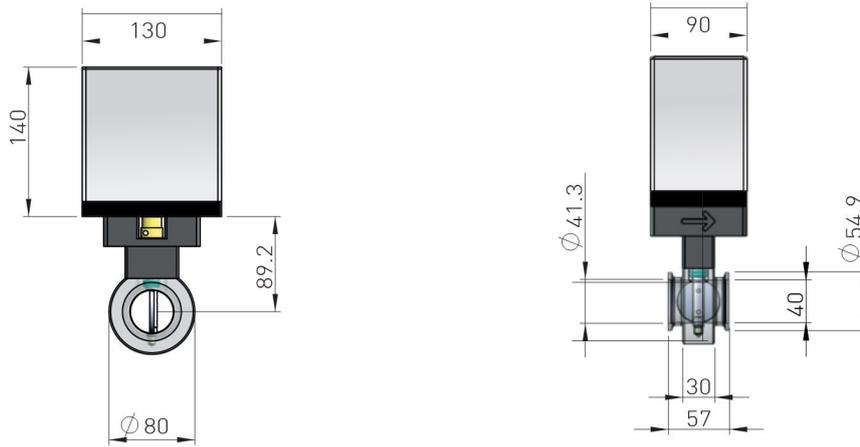
EtherCAT

## ELECTRICAL CONNECTIONS

	CONNECTION	TYPE
POWER	Power input	DB-9 male
SENSOR	Sensor input	DB-15 female
	Sensor power supply	
INTERFACE	RS232, Logic, RS422, RS485	DB-25 female
	DeviceNet	Micro-style male
	Ethernet	RJ-45
BUS Modules	Profibus	DB-9 female
	CC-Link	5-pole terminal screw
	EtherCAT	RJ-45 x 2

## Dimensional Drawing

DN40

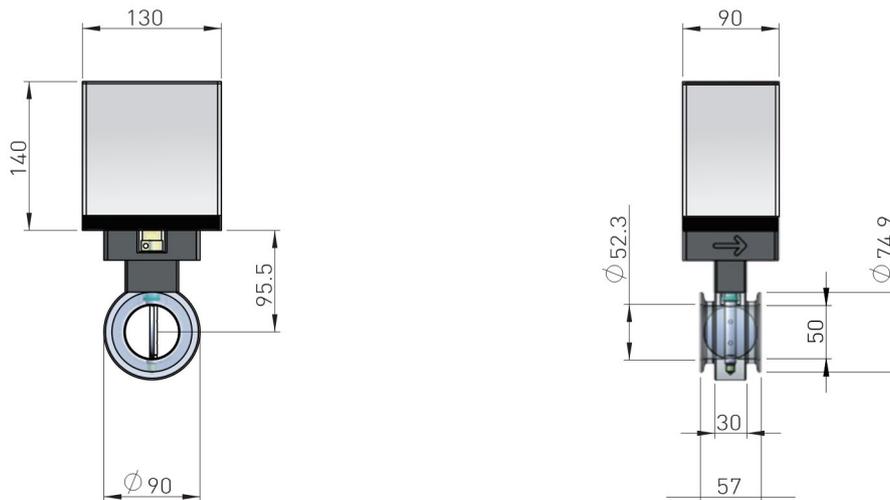


## Product Specification

DN (nominal I.D.)		Conductance in open position (molecular flow)	Minimum controllable conductance (molecular flow)	Max. differential pressure	Typical closing / opening time	Weight(approx.)			
						Aluminum		Stainless steel	
mm	inch	ls-1	ls-1	mbar	s	kg	lbs	kg	lbs
40	1½	80	0.25	1,000	0.3	2.8	6.3	3.9	8.6

## Dimensional Drawing

DN50

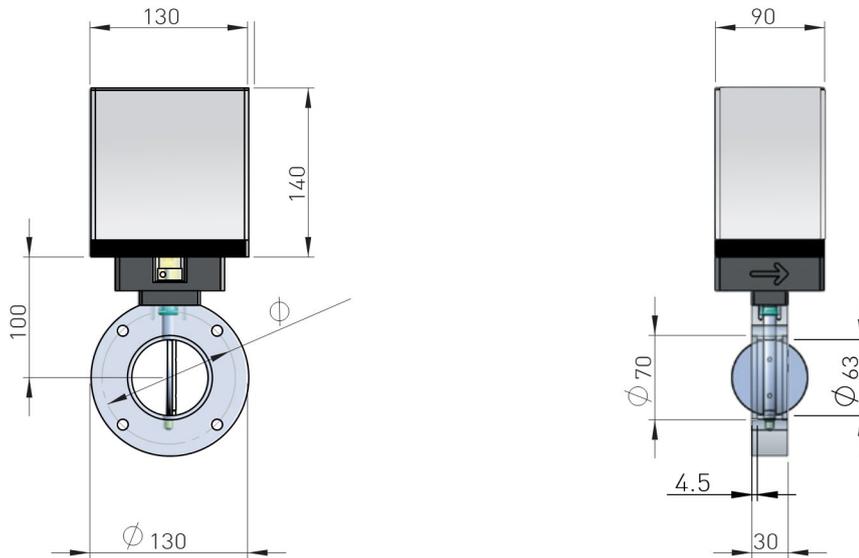


## Product Specification

DN (nominal I.D.)		Conductance in open position (molecular flow)	Minimum controllable conductance (molecular flow)	Max. differential pressure	Typical closing / opening time	Weight(approx.)			
						Aluminum		Stainless steel	
mm	inch	ls-1	ls-1	mbar	s	kg	lbs	kg	lbs
50	2	150	0.3	1,000	0.3	2.9	6.4	4.1	9.0

## Dimensional Drawing

DN63

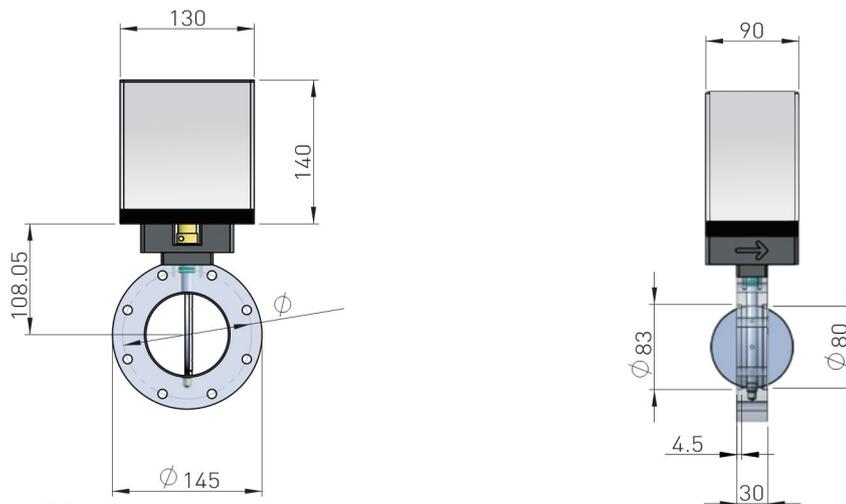


### Product Specification

DN (nominal I.D.)		Conductance in open position (molecular flow)	Minimum controllable conductance (molecular flow)	Max. differential pressure	Typical closing / opening time	Weight(approx.)			
						Aluminum		Stainless steel	
mm	inch	ls-1	ls-1	mbar	s	kg	lbs	kg	lbs
63	2½	360	0.45	1,000	0.3	3.3	7.2	5.2	11.5

## Dimensional Drawing

DN80

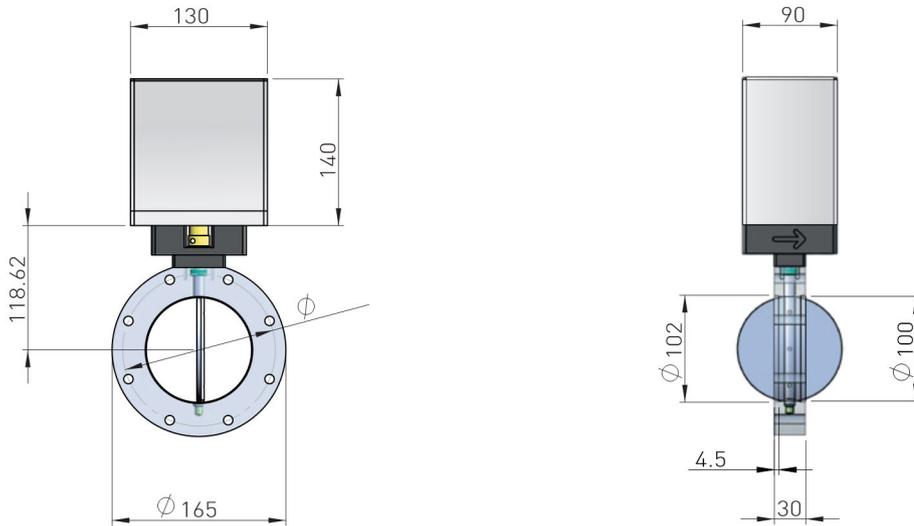


### Product Specification

DN (nominal I.D.)		Conductance in open position (molecular flow)	Minimum controllable conductance (molecular flow)	Max. differential pressure	Typical closing / opening time	Weight(approx.)			
						Aluminum		Stainless steel	
mm	inch	ls-1	ls-1	mbar	s	kg	lbs	kg	lbs
80	3	850	0.65	1,000	0.3	3.4	7.5	5.5	12.1

## Dimensional Drawing

DN100

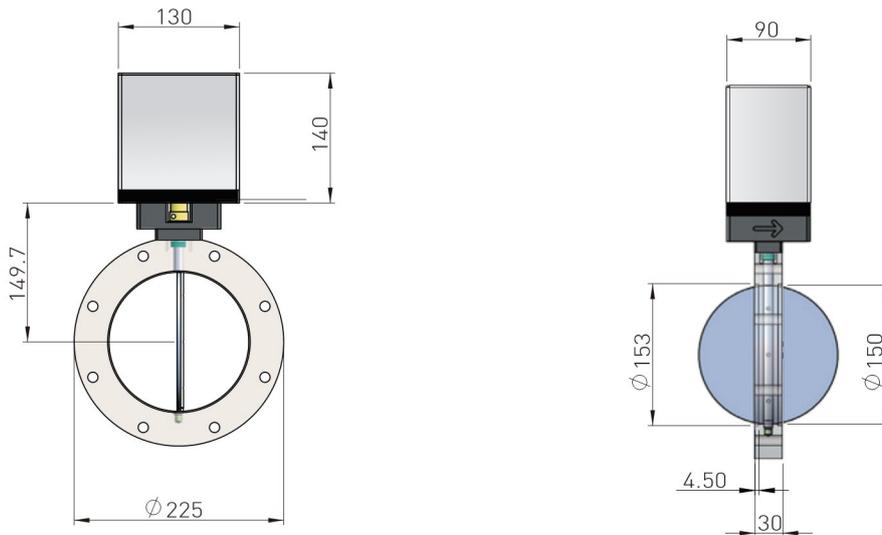


### Product Specification

DN (nominal I.D.)		Conductance in open position (molecular flow)	Minimum controllable conductance (molecular flow)	Max. differential pressure	Typical closing / opening time	Weight(approx.)			
						Aluminum		Stainless steel	
mm	inch	ls-1	ls-1	mbar	s	kg	lbs	kg	lbs
100	4	1,400	0.85	800	0.3	3.6	7.9	6.1	13.4

## Dimensional Drawing

DN160

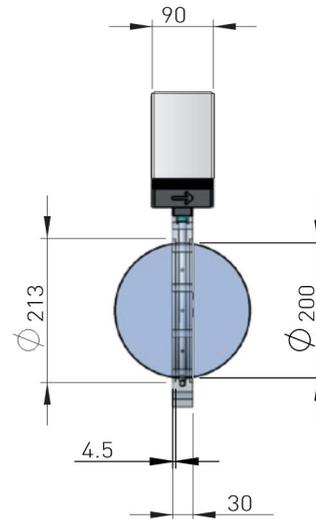
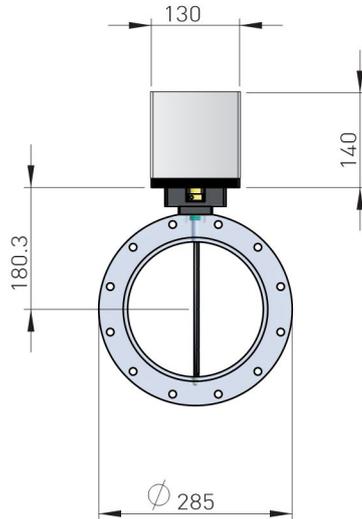


### Product Specification

DN (nominal I.D.)		Conductance in open position (molecular flow)	Minimum controllable conductance (molecular flow)	Max. differential pressure	Typical closing / opening time	Weight(approx.)			
						Aluminum		Stainless steel	
mm	inch	ls-1	ls-1	mbar	s	kg	lbs	kg	lbs
160	6	3,800	1.7	300	0.3	4.3	9.5	8.3	18.3

## Dimensional Drawing

DN200

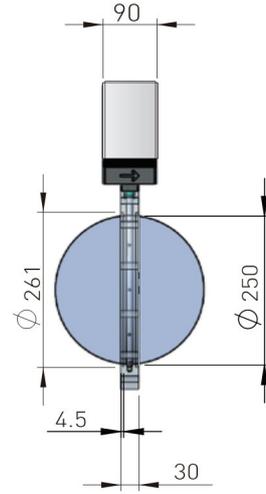
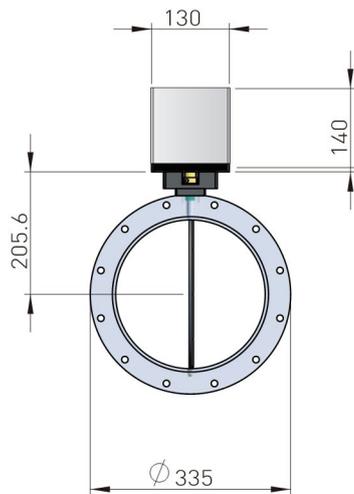


### Product Specification

DN (nominal I.D.)		Conductance in open position (molecular flow)	Minimum controllable conductance (molecular flow)	Max. differential pressure	Typical closing / opening time	Weight(approx.)			
						Aluminum		Stainless steel	
mm	inch	ls-1	ls-1	mbar	s	kg	lbs	kg	lbs
200	8	7,800	2.8	150	0.3	5.2	11.5	10.9	24.0

## Dimensional Drawing

DN250



### Product Specification

DN (nominal I.D.)		Conductance in open position (molecular flow)	Minimum controllable conductance (molecular flow)	Max. differential pressure	Typical closing / opening time	Weight(approx.)			
						Aluminum		Stainless steel	
mm	inch	ls-1	ls-1	mbar	s	kg	lbs	kg	lbs
250	10	15,000	5.0	100	0.3	5.9	13.0	13.0	28.7