

Vacuum Control Valves

NOVASEN



Make it Best or Not !

CLIENTS

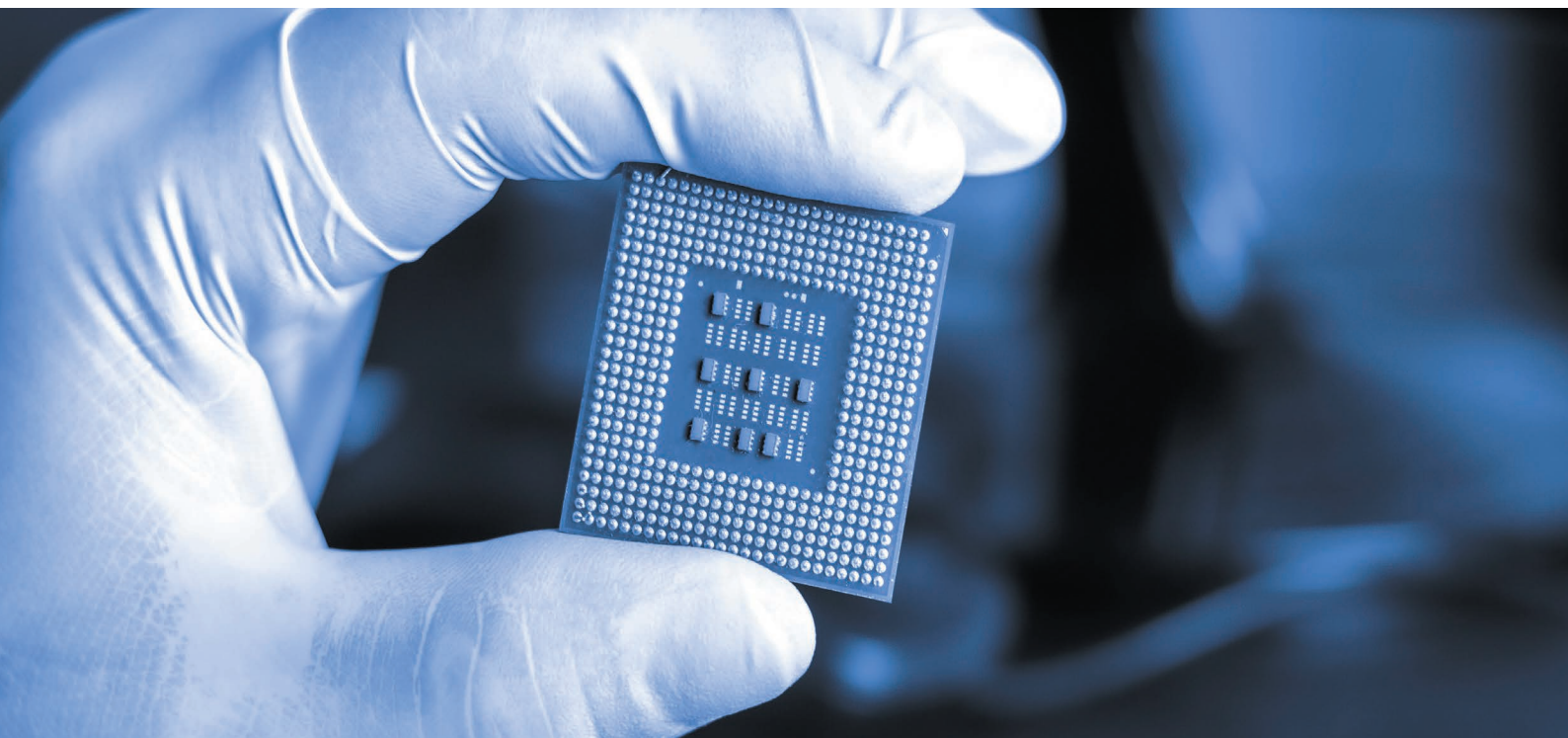
고객 중심

CREATION

창의적인 기업

HUMANITY

인간 존중



목차

1. 제품선택 가이드	03
제품 리스트	
2. 관리 S/W	04
3. APC 버터플라이 밸브	05
- Non-Sealing (25N / 40N / 50N)	08
- Non-Sealing (63N / 80N)	09
- Non-Sealing (100N / 160N)	10
- Non-Sealing (200N / 250N / 320N)	11
- Sealing (40S / 50S)	12
- Sealing (100S)	13
- Sealing (F-cup) (40F / 50F)	14

제품선택 가이드

A B N 080 F S LO B 1

Quantity of Sensors	1 : 1 Sensor
	2 : 2 Sensor
Power Option*	B : Basic
	S : with SPS
	P : with PFO
	D : with SPS and PFO
Communication Interface	R2 : RS-232
	R3 : RS-232(Analog output)
	R4 : RS-485
	LO : Logic
	DN : DeviceNet®
	PB : Profibus
	EN : Ethernet
	CC : CC-Link
	EC : EtherCAT
Body Material	A : Aluminum
	S : SUS304
	L : SUS316L
Method of Contract	K : ISO-KF
	F : ISO-F
	C : CF-F
	P : ISO-K(Pipe connection)
Flange Size	025 : DN25
	040 : DN40
	050 : DN50
	063 : DN63
	080 : DN80
	100 : DN100
	160 : DN160
	200 : DN200
	250 : DN250
	320 : DN320
Sealing Type	N : Non-Sealing
	S : Sealing
	F : F-cup Sealing
Valve Type	B : Butterfly
Valve Model	A : APC

제품 리스트

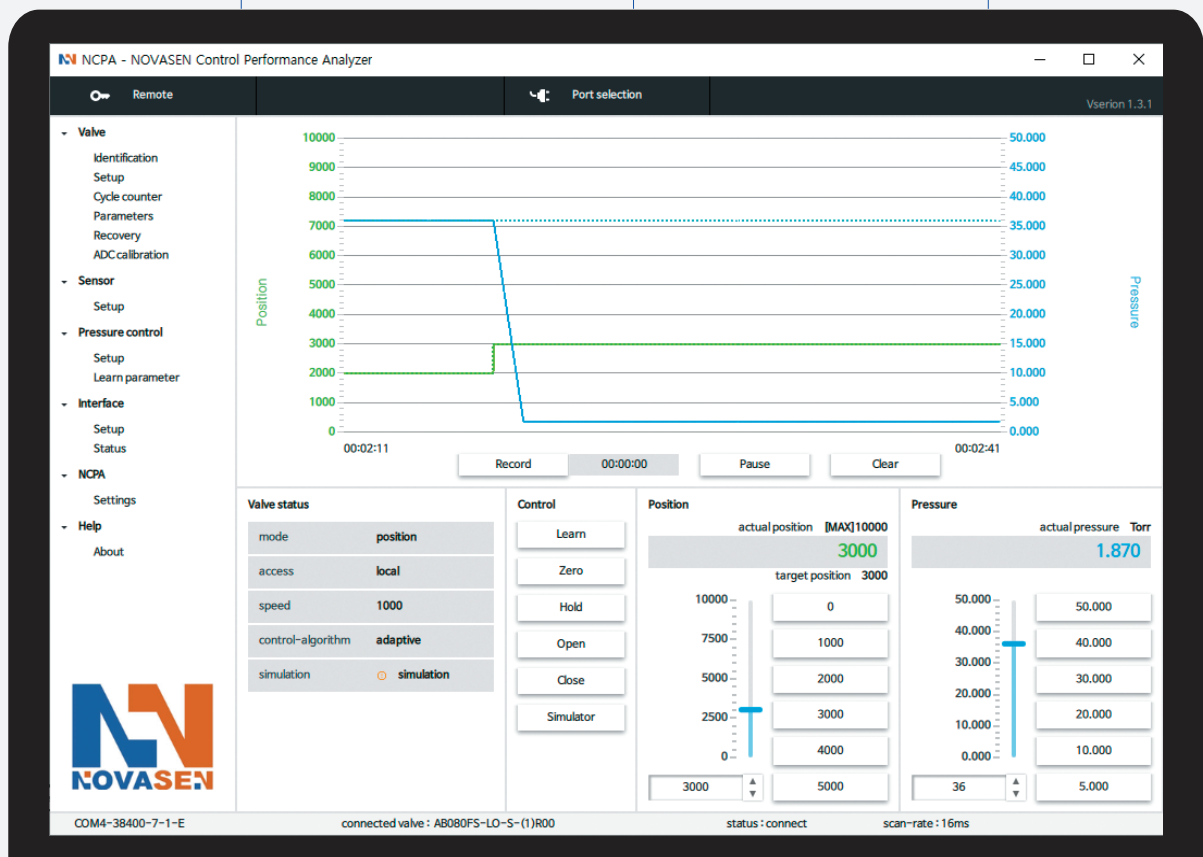


관리 S/W

밸브의 상태 모니터링

밸브의 위치 및 압력 제어 변화
그래프 표시 / 저장

밸브의 위치 및 압력 제어



학습모드 수행

사용자 인터페이스
관련 설정

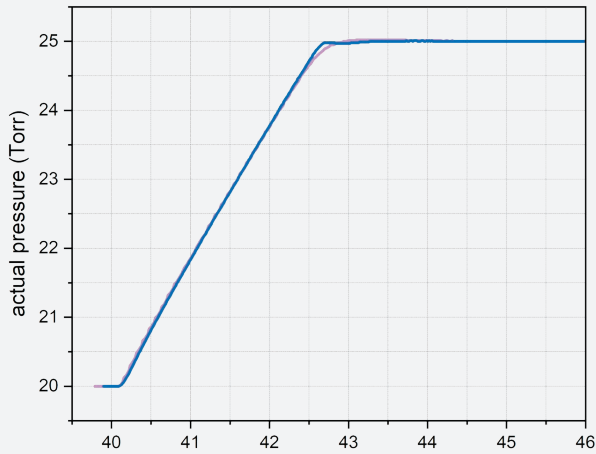
밸브 및 센서의 속성 설정

학습 데이터 저장 / 불러오기

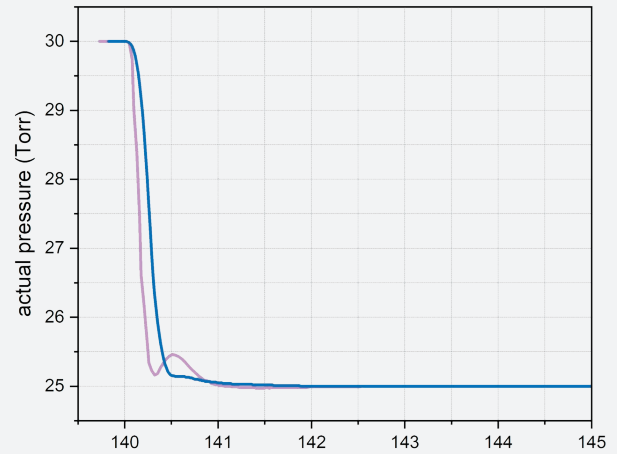
APC 버터플라이 밸브

I 제어 성능

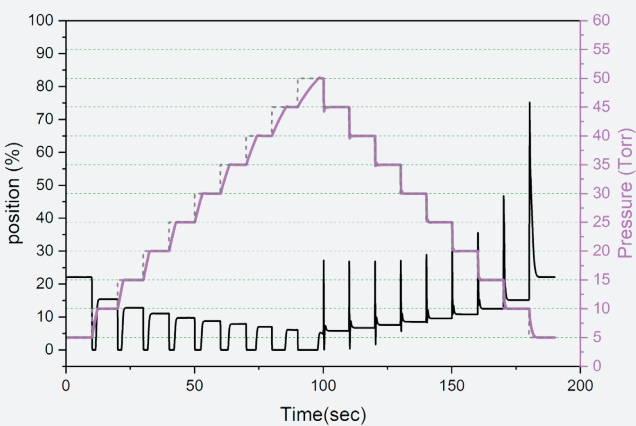
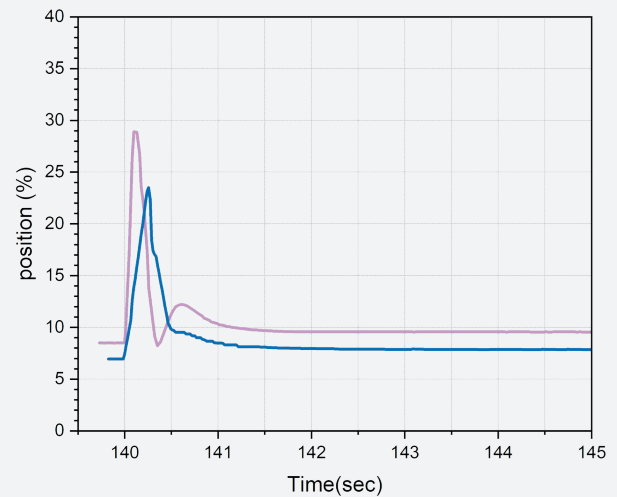
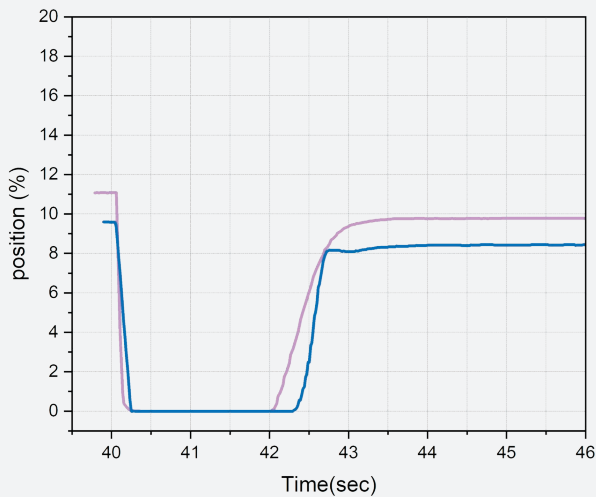
■ NOVAZEN
■ Competitor



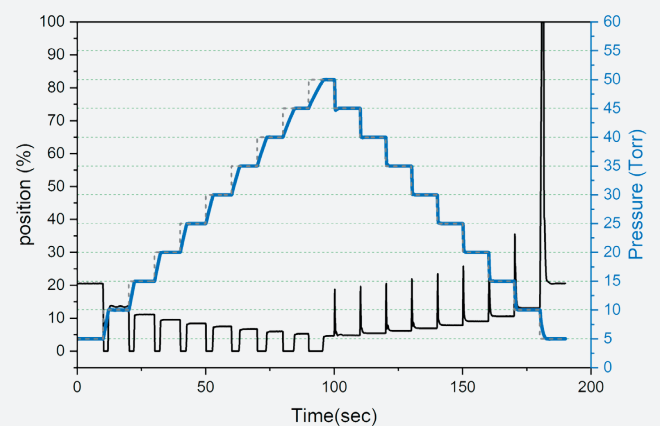
압력 상승

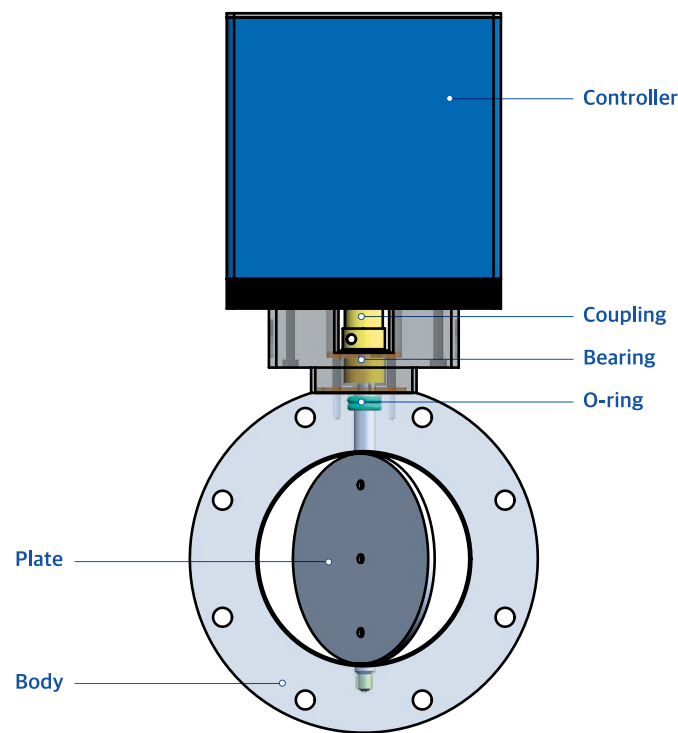


압력 하강



제어 응답

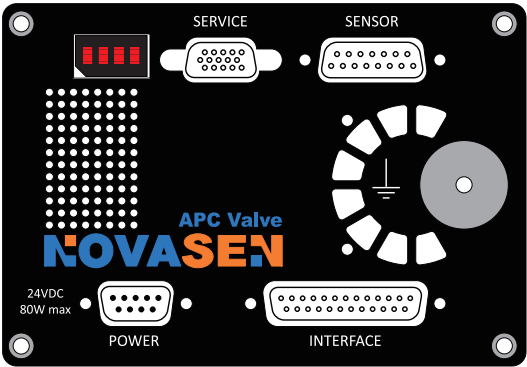




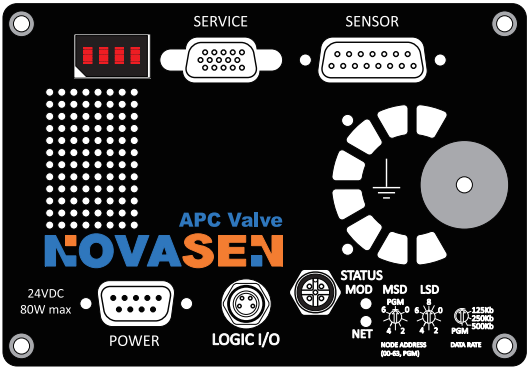
제품 사양

Pressure range at 20°C	1 × 10E-8 mbar to 1,2 bar (abs)
Leak rate to outside at 20°C	1 × 10E-9 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 declared on dimensional drawing of specific valve ordering number.
- Slide bearing for shaft	iglidur® X
Power input ¹⁾	+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 ²⁾	+24 VDC / 1500 mA max. [connector: POWER]
- Input - Output	±15 VDC (±5%) / 667 mA max. [connector: SENSOR]
Sensor input	0-10 VDC / Ri>100 kΩ [connector: SENSOR]
- Signal input - ADC resolution - Sampling time	0,16 mV 1 ms
Digital inputs ³⁾	±24 VDC max.
Digital outputs ³⁾	70 VDC or 70 V peak max. 0,5 ADC or 0,5 A peak max. 10 W max.
- Input voltage - Input current - Breaking capacity	
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 time closing	0,3 s typ.
opening	0,3 s typ.
Utilizable valve torque	2,5 Nm

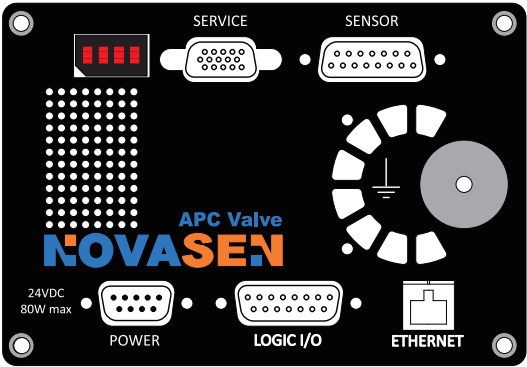
1) Internal overcurrent protection by a PTC device. 2) Refer to chapter «Sensor supply concepts» for details. 3) Refer to chapter «Schematics» for details.



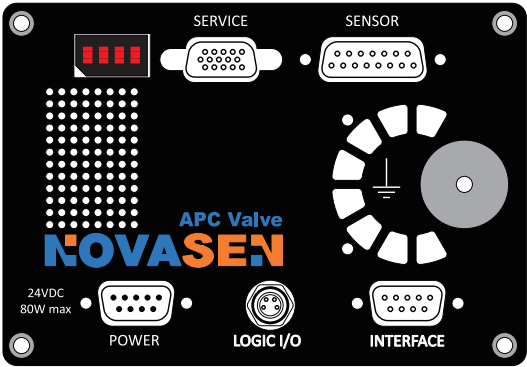
RS232, Logic, RS422, RS485



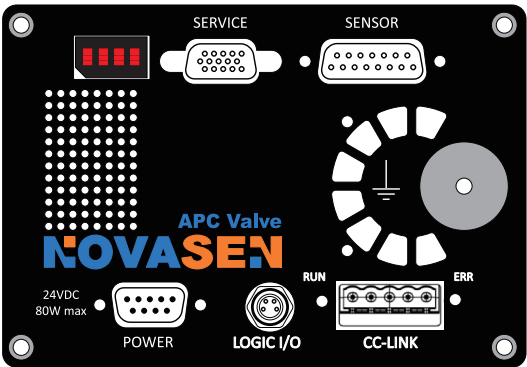
DeviceNet



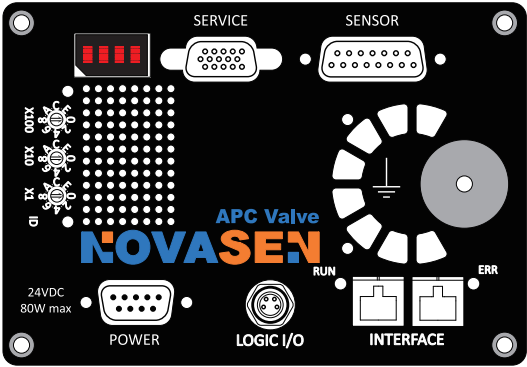
Ethernet



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 Mudules	Profibus	DB-9 female
	CC-Link	5-pole terminal screw
	EtherCAT	RJ-45 x 2

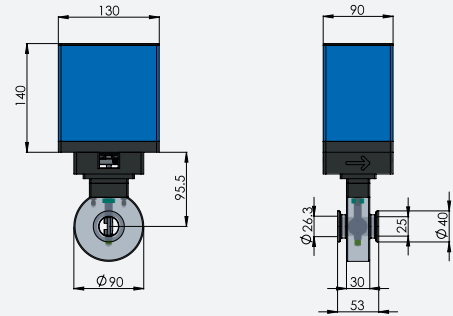
BUTTERFLY

Non-Sealing

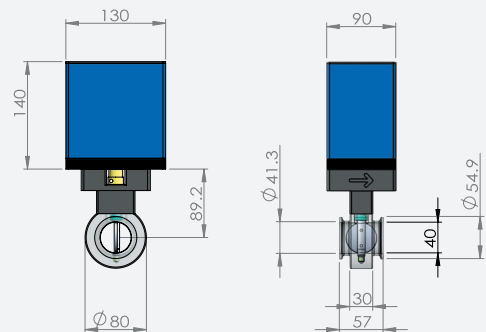
25N / 40N / 50N



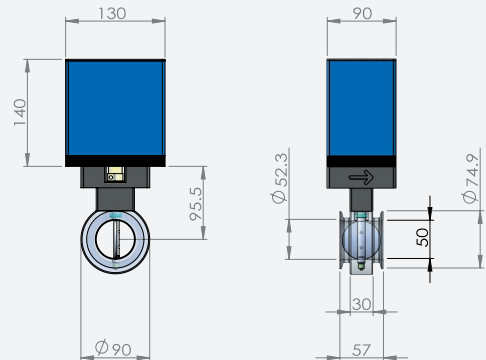
25N



40N

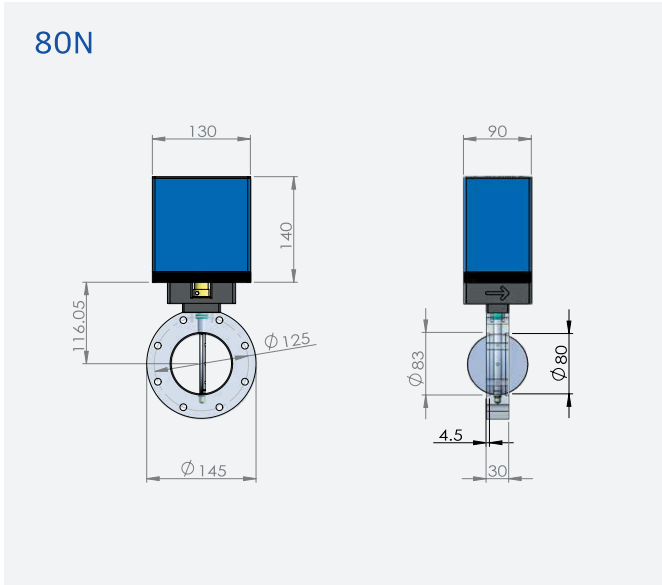
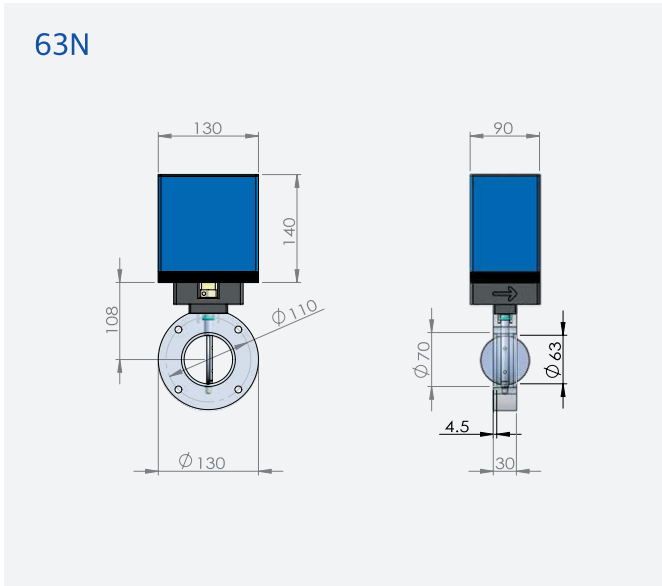
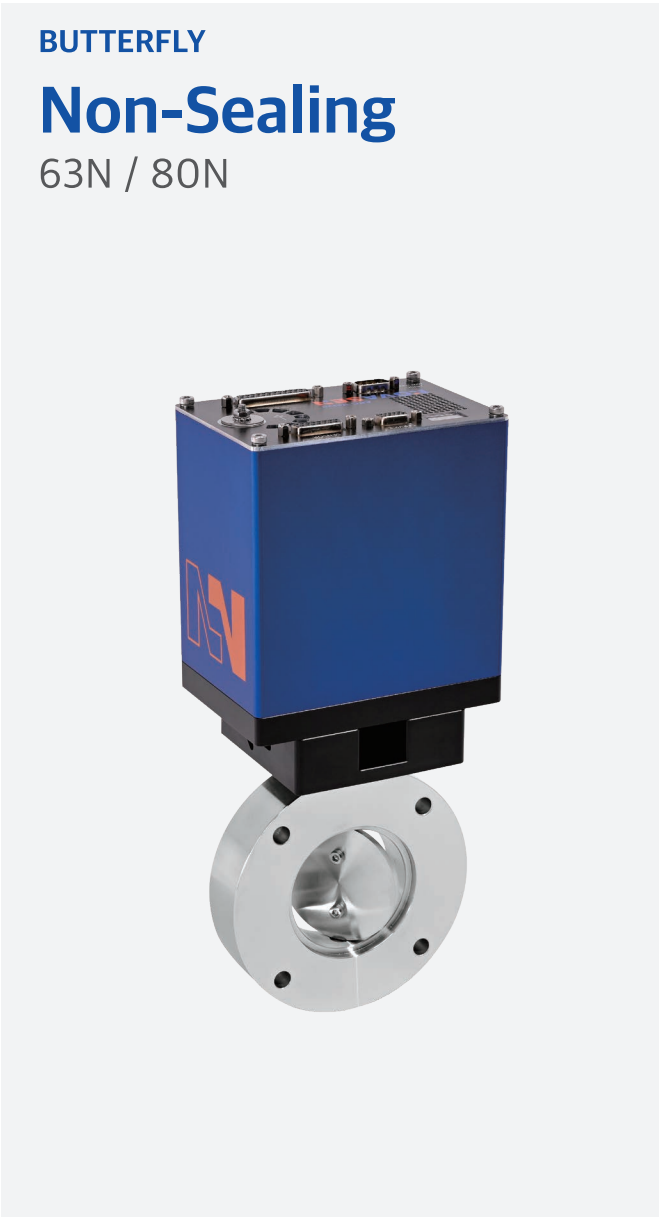


50N



| 제품 사양

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-l	ls-l	mbar	s	kg	lbs	kg	lbs
25	1	22	0.25	1,000	0.3	2.9	6.5	4.0	8.8
40	1½	80	0.25	1,000	0.3	2.8	6.3	3.9	8.6
50	2	150	0.3	1,000	0.3	2.9	6.4	4.1	9.0



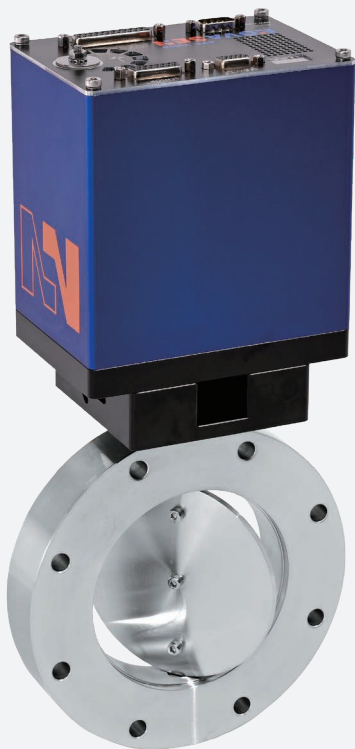
제품 사양

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-l	ls-l	mbar	s	kg	lbs	kg	lbs
63	2½	360	0.45	1,000	0.3	3.3	7.2	5.2	11.5
80	3	850	0.65	1,000	0.3	3.4	7.5	5.5	12.1

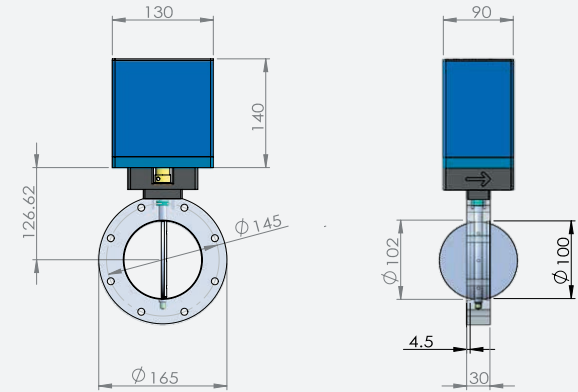
BUTTERFLY

Non-Sealing

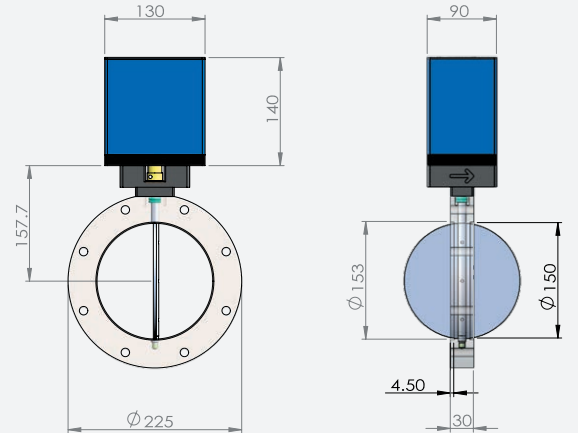
100N / 160N



100N



160N



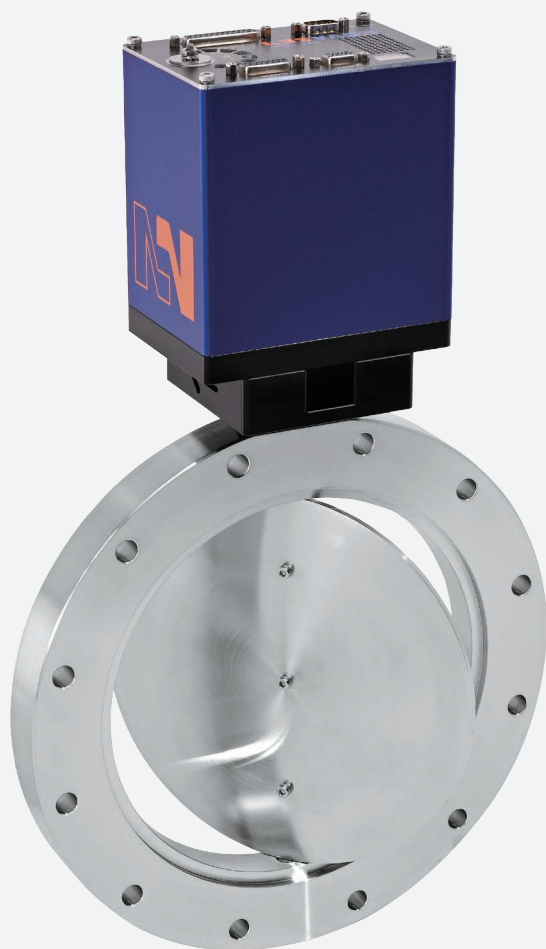
제품 사양

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-l	ls-l	mbar	s	kg	lbs	kg	lbs
100	4	1,400	0.85	800	0.3	3.6	7.9	6.1	13.4
160	6	3,800	1.7	300	0.3	4.3	9.5	8.3	18.3

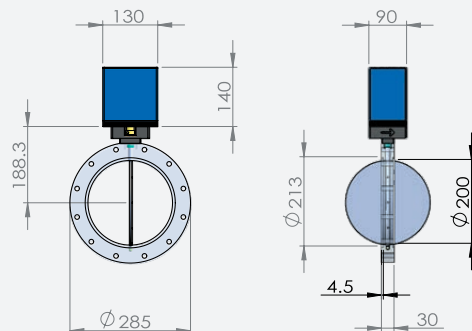
BUTTERFLY

Non-Sealing

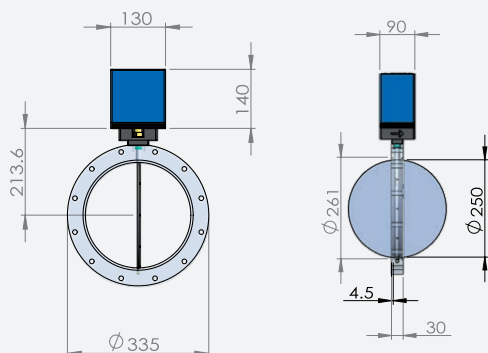
200N / 250N / 320N



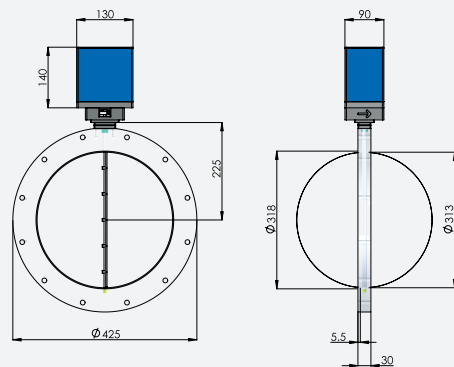
200N



250N



320N

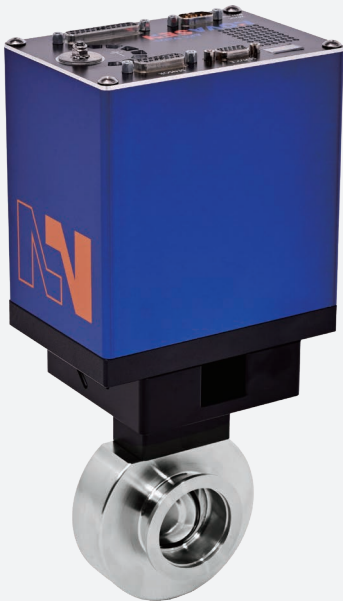
**제품 사양**

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-l	ls-l	mbar	s	kg	lbs	kg	lbs
200	8	7,800	2.8	150	0.3	5.2	11.5	10.9	24.0
250	10	15,000	5.0	100	0.3	5.9	13.0	13.0	28.7
320	12	27,000	6	75	1	7.7	17.0	18.0	39.6

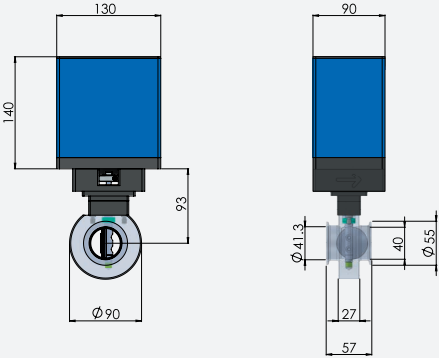
BUTTERFLY

Sealing

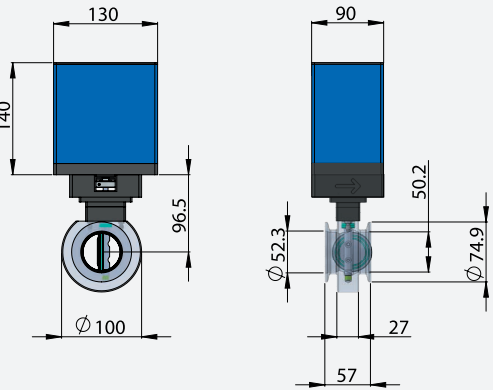
40S / 50S



40S

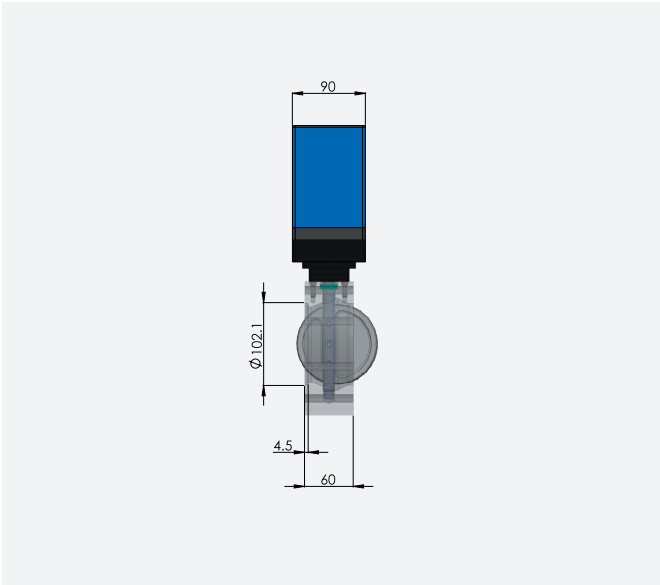
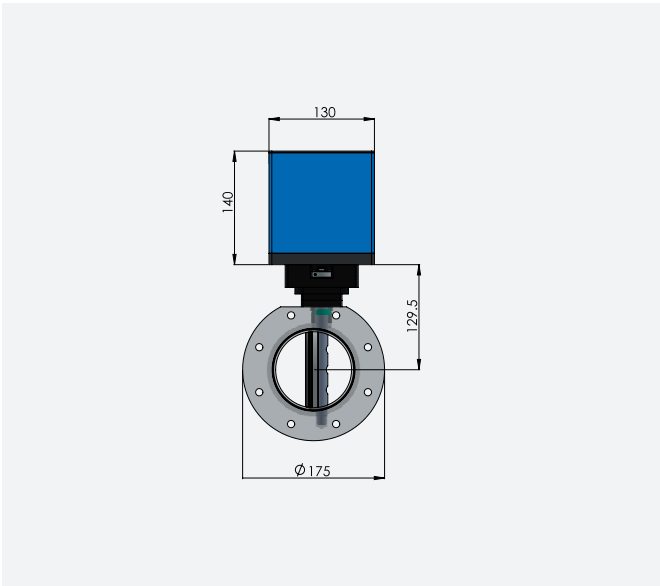
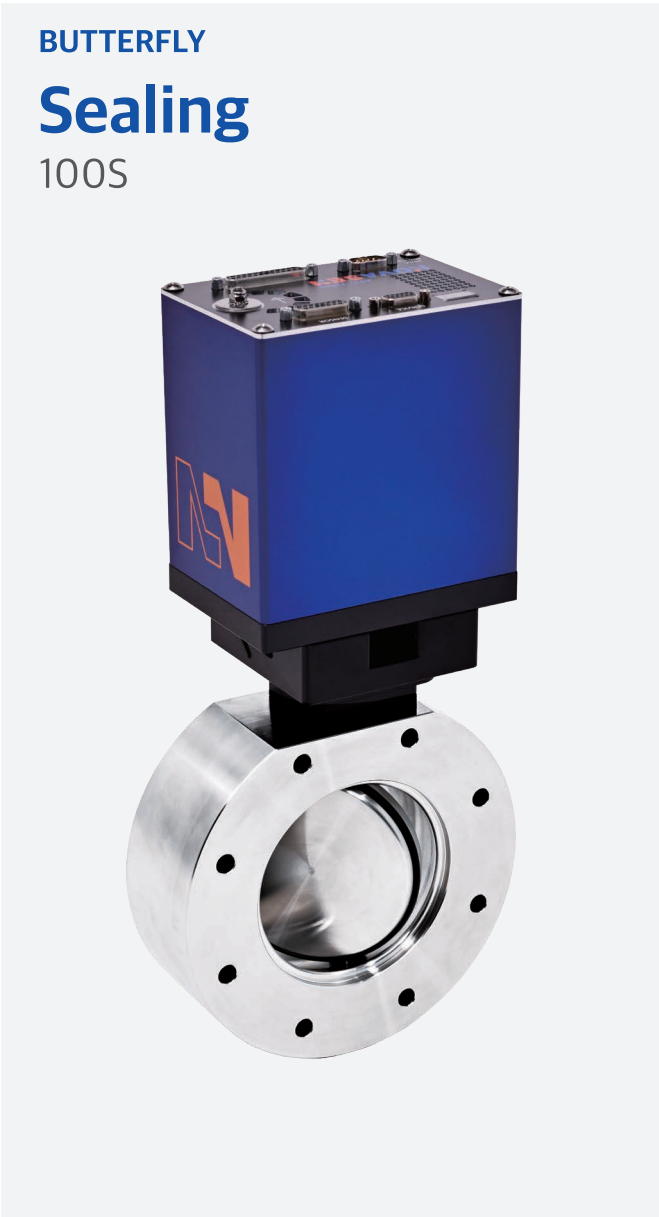


50S



제품 사양

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-l	ls-l	mbar	s	kg	lbs	kg	lbs
40	1½	60	0.05	1,000	0.6	2.8	6.2	3.6	7.8
50	2	120	0.1	1,000	0.6	2.9	6.3	3.8	8.4



제품 사양

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-l	ls-l	mbar	s	kg	lbs	kg	lbs
100	4	600	0.25	1,000	0.6	4.9	10.9	9.9	21.7

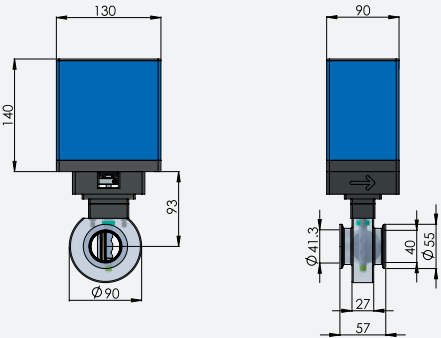
BUTTERFLY

Sealing (F-cup)

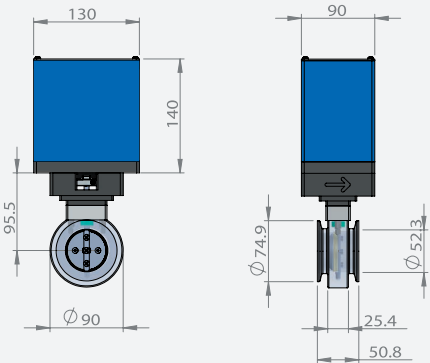
40F / 50F



40F



50F



제품 사양

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-l	ls-l	mbar	s	kg	lbs	kg	lbs
40	1½	31	0.25	1,000	0.6	2.8	6.2	3.6	7.9
50	2	150	0.7	1,000	0.6	2.9	6.4	3.9	8.5

NOVASEN

Vacuum Control Systems

NOVASEN은 신뢰할 수 있는 제품과 서비스를 제공합니다.





노바센(주)

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