

# PFA LINED DIAPHRAGM VALVE & AUTO CONTROL VALVE

Introduction for PFA Lined Valve

Product Guide | PFA LINED DIAPHRAGM VALVE

AUTO CONTROL VALVE

Ordering Information

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# PFA LINED DIAPHRAGM VALVE & AUTO CONTROL VALVE

## Applied standard | 적용 규격

It is satisfactory in the next standard and it executes the prosecuting inspection.

다음의 표준에 만족하는 검사를 수행한다.

- ASME/ ANSI B16.5 Pipe Flanges and Flanged Fittings
- KS B1503 / JIS B2220 Steel Welding Pipe Flanges
- ASME/ ANSI B16.10 Face-to-Face and End-to-End Dimensions of valve
- ASME/ ANSI B16.34 Valves - Flanged, Threaded, and Welding End Addenda A
- API STANDARD 598 Valve Inspection and Testing
- ASTM D3307 Standard Specification for Perfluoroalkoxy (PFA)
- ASTM F1545 Standard Specification for Plastic-Lined Ferrous Metal Pipe, Fittings, and Flanges
- EN 12266 Industrial valves Testing of valves
- ASTM A216/A216M Standard Specification for Steel Castings, Carbon, Suitable for Fusion welding, for High-Temperature Service
- ASTM A351/A351M Standard Specification for Castings, Austenitic, Austenitic-Ferritic(Duplex), for Pressure-Containing Parts

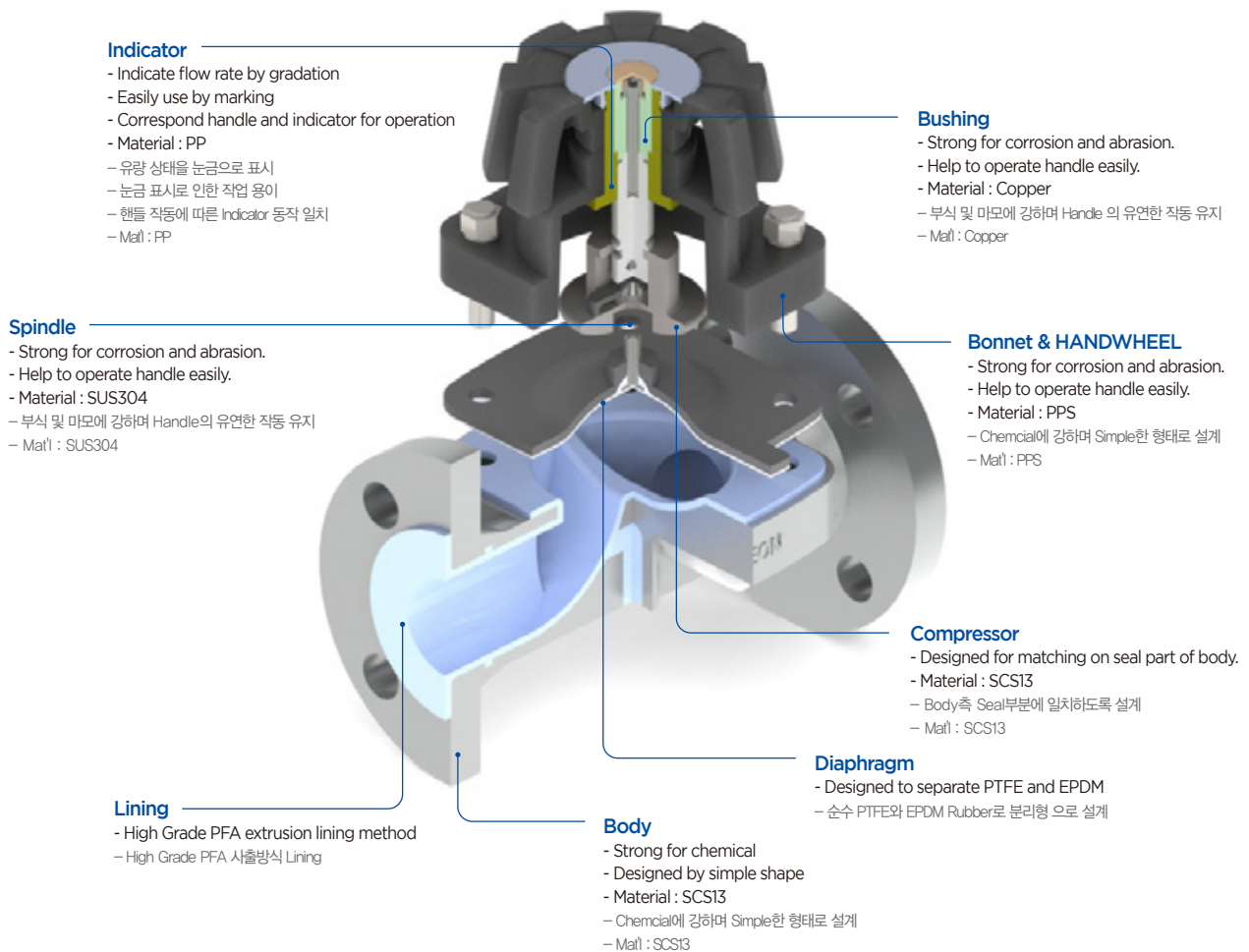


## TUV NORD 품질경영 시스템 획득

(주)위온은 독일인증기관인 TUV NORD를 통하여 품질경영 시스템을 획득하였으며, 우수한 품질관리 시스템을 기반으로 원자재에서 완제품 출하까지 철저한 품질관리를 실시하고 있습니다.

# PFA LINED DIAPHRAGM VALVE

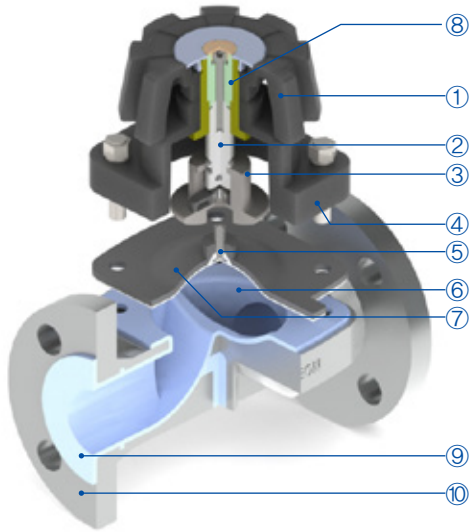
## Valve features | 주요부품 구성도



## Recommend using condition | 사용 조건

STANDARD DUTY SPEC' 일반 조건		STANDARD	CV - MAX	CONNECTING
- MAXIMUM OPERATING PRESSURE (최고 사용압력)	: 8kg/cm <sup>2</sup> at r.t	15A	15	JIS 10KG Flange
- MAXIMUM OPERATING TEMPERATURE (최고 사용온도)	: 120deg c	20A	15	JIS 10KG & ANSI 150# Flange
- LEAK TEST PRESSURE (기밀 시험압력)	: 10kg/cm <sup>2</sup>	25A	21	JIS 10KG & ANSI 150# Flange
- SPARK TEST VOLTAGE (라이닝 전압시험)	: 20,000 volt	40A	44	JIS 10KG & ANSI 150# Flange
- SPECIFICATION 적용규격 별 DATA		50A	87	JIS 10KG & ANSI 150# Flange
		40A	163	JIS 10KG & ANSI 150# Flange
		100A	248	JIS 10KG & ANSI 150# Flange

## Materials (section view) | 재질 (단면도)

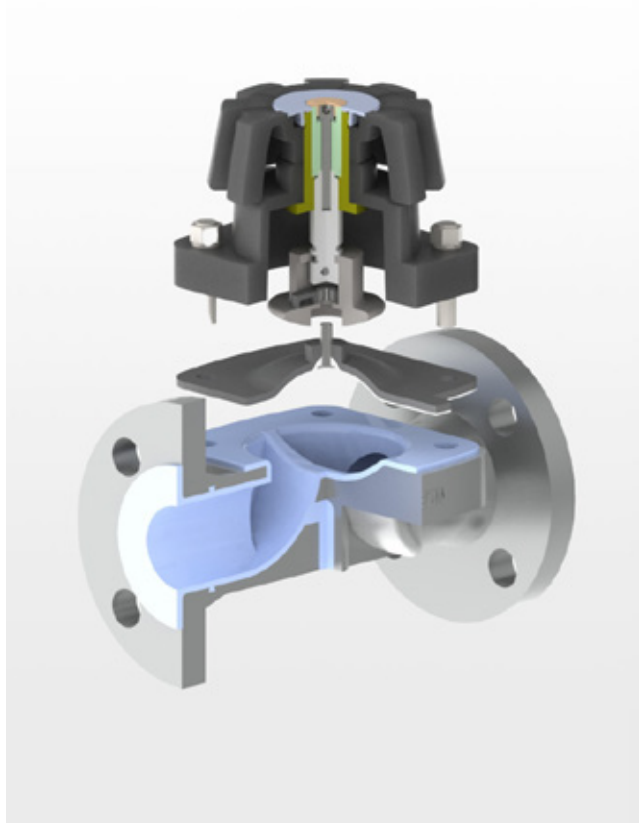
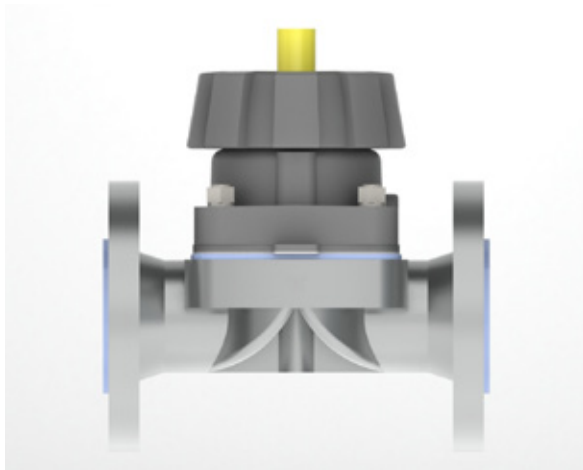


MANUAL TYPE		
No.	DESCRIPTION	MATERIALS
1	Handle	PPS
2	SPINDLE	SUS 304
3	Compressor	SUS 304
4	Bonnet	SUS 304
5	Spindle ring	SUS 304
6	EPDM Diaphragm	EPDM
7	PTFE Diaphragm	M – PTFE
8	Bushing	Copper
9	Lining	High Grade PFA
10	Body	SCS 13
Etc	Bolt & Nut	SUS 304

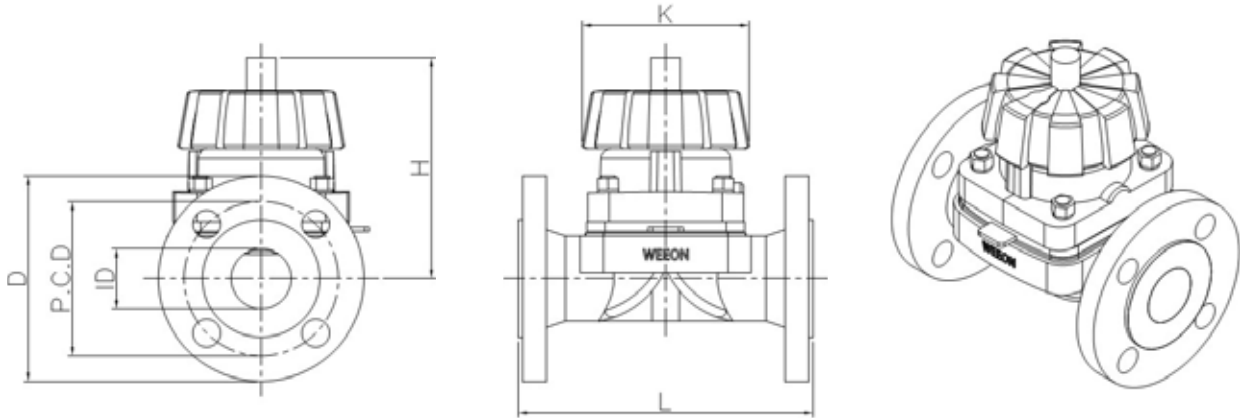
## Bonnet축 Bolt Torque

PRODUCT SIZE	BOLT SIZE	TORQUE – NM
15A JIS10K & 1/2B ANSI150#	M8	20
20A JIS10K & 3/4B ANSI150#	M8	20
25A JIS10K & 1B ANSI150#	M8	24
40A JIS10K & 1 1/2B ANSI150#	M10	35
50A JIS10K & 2B ANSI150#	M12	40
65A JIS10K & 2 1/2B ANSI150#	M12	45
80A JIS10K & 3B ANSI150#	M12	45
100A JIS10K & 4B ANSI150#	M12	45

\* 상기 값은 참조 Data입니다.



## Dimensions & specification table



### ANSI 150#

unit : mm

SIZE	L	D	P.C.D	t	T	H	W
1/2"	150	88.9	60.4	3.5	13	115	80
3/4"	150	98.6	69.9	3.5	13	115	80
1"	160	108	79.2	3.5	14.5	121	80
1 1/2"	200	127	98.5	3.5	17.5	150	100
2"	230	155	120	3.5	18	166	100
2 1/2"	300	190.5	139.7	4	22	235	200
3"	300	190.5	152.4	4	22	235	200
4"	350	228.6	190.5	4	22	264	200

### JIS 10K

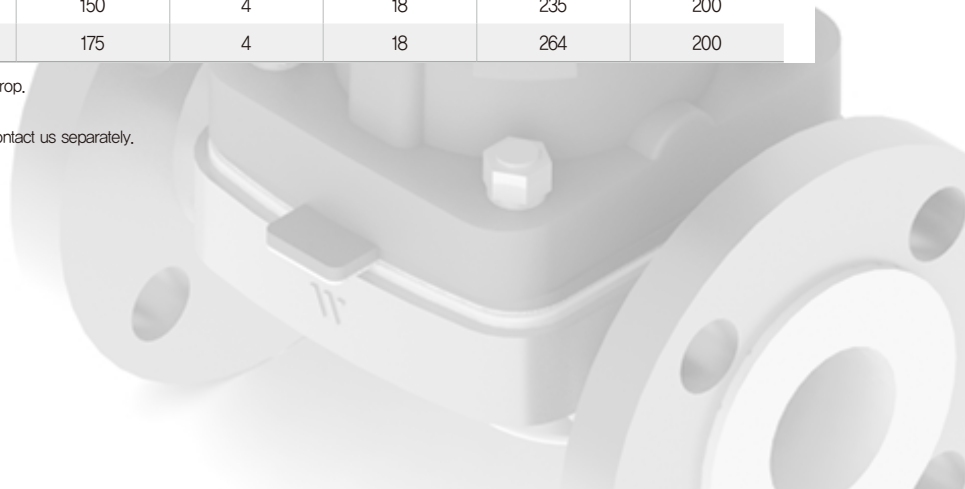
unit : mm

SIZE	L	D	P.C.D	t	T	H	W
15A	150	95	70	3.5	14	115	80
20A	150	100	75	3.5	14	115	80
25A	160	125	90	3.5	14	121	80
40A	200	140	105	3.5	16	150	100
50A	230	155	120	3.5	16	166	100
65A	300	185	140	4	18	235	200
80A	300	185	150	4	18	235	200
100A	350	210	175	4	18	264	200

\* Cv = Flow in gallon per minute of 60°F water at 1psi pressure drop.  
1psi 압력차에서 60°F의 물이 1분동안 흐른 양

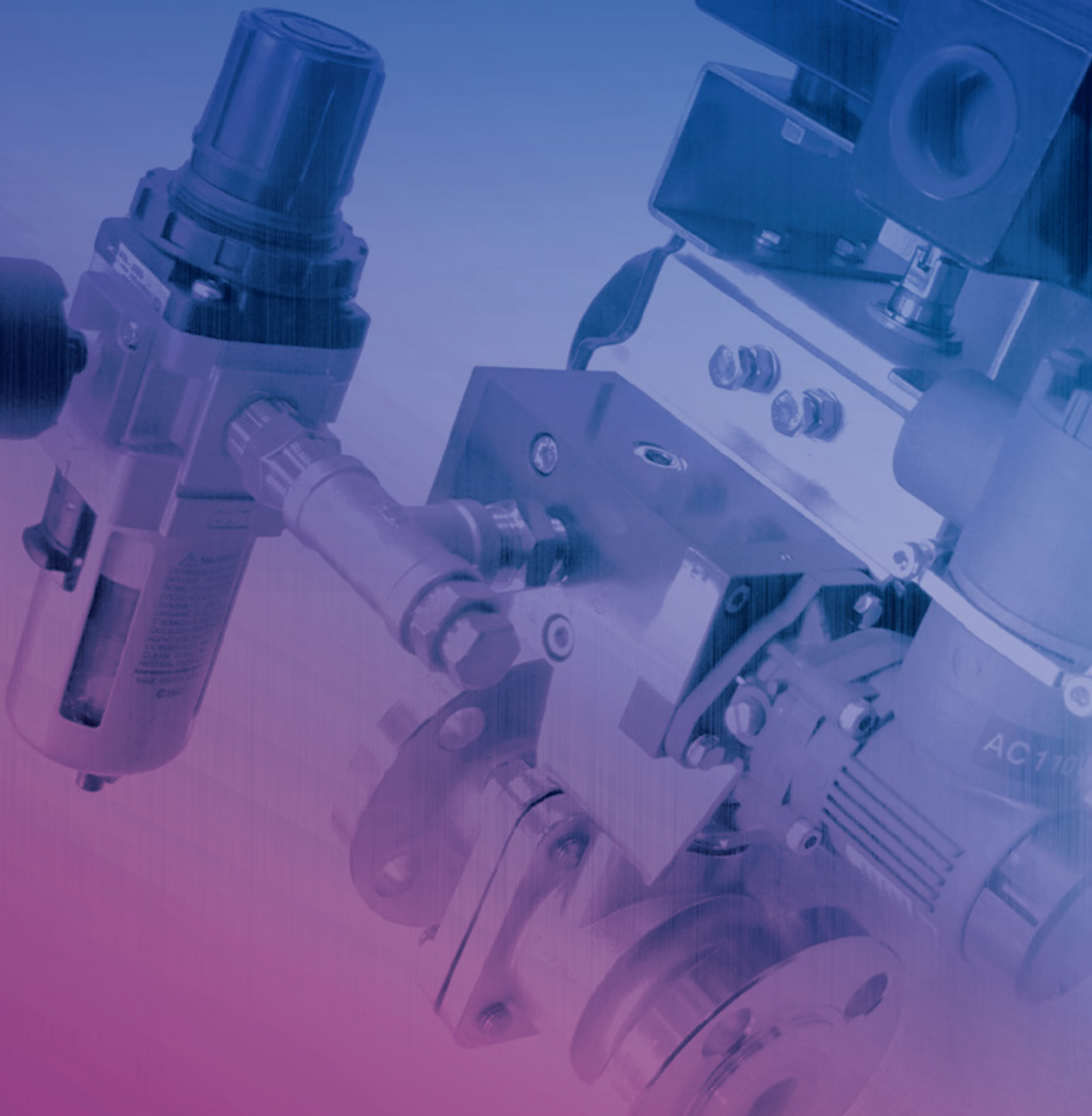
\* For other standard such as DIN or larger size than 3", Please contact us separately.

\* DIN 규격 제품 및 3"이상의 제품은 별도 문의 바랍니다.





# AUTO (ON-OFF & CONTROL) VALVE

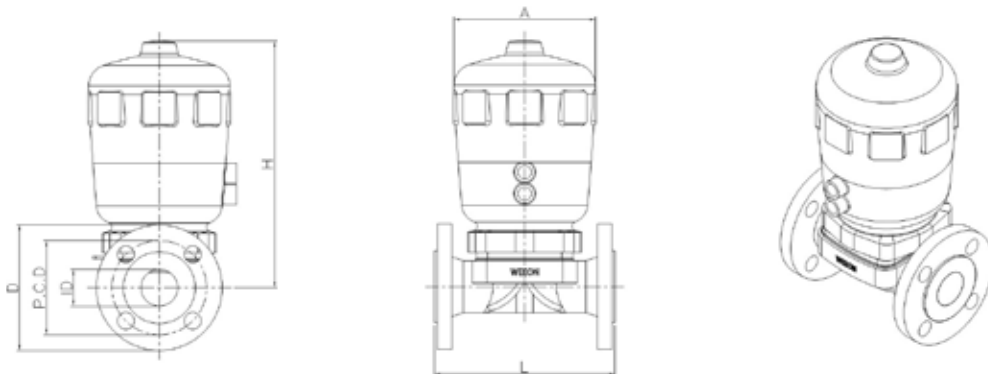


# AUTO (ON & OFF CONTROL) VALVE

## DIAPHRAGM VALVE



### Dimensions & specification table



JIS 10K

unit : mm

SIZE	L	D	P.C.D	A	H	PFA LINING TH'K
15A	150	95	70	101	174	3.5
20A	150	100	75	101	174	3.5
25A	160	125	90	101	177	3.5
40A	200	140	105	153	274	3.5
50A	230	155	120	153	278	3.5
65A	310	185	140	200	398	4
80A	310	185	150	200	398	4
100A	350	210	175	220	410	4

ANSI 150#

unit : mm

SIZE	L	D	P.C.D	A	H	PFA LINING TH'K
1/2"	150	88.9	60.4	101	174	3.5
3/4"	150	98.6	69.9	101	174	3.5
1"	160	108	79.2	101	177	3.5
1 1/2"	200	127	98.5	153	274	3.5
2"	230	155	120	153	278	3.5
2 1/2"	310	190.5	139.7	200	398	4
3"	310	190.5	152.4	200	398	4
4"	350	228.6	190.5	220	410	4

\* Actuator operate pressure : 5~6kg/cm2.G

\* Pilot Port

\* 자세한 사항은 본사 문의 바랍니다.

# ORDERING INFORMATION

1	Connections	Code
	JIS 10k	J10
	ANSI 150lbs	A15
	ANSI 300lbs	A30

\* Please contact us for standard DIN.  
 \* DIN 규격제품은 별도 협의 바랍니다.

2	Connections	Code
	Ball valve	B
	Diaphragm valve	D
	Ball check valve	BC
	Wafer check valve	WC

3	Materials	Code
	PFA lined / WCB housing	W
	PFA lined / SCS13(CF8) housing	S

4	Norminal size (mm)
	15A~600A 1/2"~24"

5	Operating	Code
	Manual	M
	Actuator	A

\* Please refer to separated data table for Auto (On-off or Control) Valve.  
 \* AUTO(ON-OFF & CONTROL) VALVE는 별도 DATA TABLE 참고 바랍니다.

	1	2	3	4	5
Order example	J10	B	M	S	E
Connection	J10				
Valve type	B				
Material	S				
Norminal size (mm)	15A				
Operating	M				





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R & D factory (DESIGN / R&D / Outsourcing)  
Chemical facilities Manufacture & sales product  
LINED TANK & HEAT EXCHANGER  
LINED PIPE & FITTING  
LINED VALVE & AUTO CONTROL VALVE  
BELLOWS & FLEXIBLE HOSE  
GASKET & PACKING  
PFA TUBE & FITTING



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