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process control  
sealing & shielding



# Solenoid Valves



ENGINEERING **YOUR** SUCCESS

# Solenoid Valves

## PRODUCTS OVERVIEW

### General Purpose valve



#### 121K/V/F Series 122K Series

2/2 Way valve  
(Direct Operated )

- ▶ Normally Closed, Normally Open
- ▶ 7000 sleeve assembled
- ▶ Body : Brass, StSt 303
- ▶ Coil : All of 7000 sleeve coil available
- ▶ Operated on Zero MOPD
- ▶ Air, Water Inert ga, Oil, Corrosive fluid and steam applicable
- ▶ Applied Seal : FKM, Ruby, Teflon and Factory consult need for NBR, EPDM

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#### 131K/V/F Series 133K/V/F Series

3/2 Way Valve  
(Direct Operated)

- ▶ Normally Closed, Universal
- ▶ 7000 sleeve assembled
- ▶ Body : Brass, StSt 303
- ▶ Coil : All of 7000 sleeve coil available
- ▶ Operated on Zero MOPD
- ▶ Air, Water Inert gas, Oil, Corrosive fluid and steam applicable
- ▶ Applied Seal : FKM, Ruby and Factory consult need for NBR, EPDM

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#### WV121S Series

2/2 Way Valve  
(Direct Operated)

- ▶ Normally closed
- ▶ Body : Brass, StSt 303, Plastic
- ▶ Coil : S or H
- ▶ Operated on Zero MOPD
- ▶ Air, Water Inert gas, Oil, Corrosive fluid applicable
- ▶ Applied Seal : FKM, NBR, Silicon
- ▶ A miniature, High Performance
- ▶ UL/CE approved for 'S' coil

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#### WV131S Series

3/2 Way Valve  
(Direct Operated)

- ▶ Normally Closed
- ▶ Body : Brass, StSt 303
- ▶ Coil : S or WS
- ▶ Operated on Zero MOPD
- ▶ Air, Water Inert gas, Oil, Corrosive fluid applicable
- ▶ Applied Seal : FKM, NBR
- ▶ A miniature, High Performance
- ▶ UL/CE approved for 'S' coil

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#### 221G Series

2/2 Way Valve  
(Magnalift)

- ▶ Normally closed
- ▶ Body : Brass
- ▶ 7000 sleeve assembled
- ▶ Coil : All of 7000 sleeve coil available
- ▶ Operated on nearly Zero MOPD
- ▶ Air, Water, Inert gas, Oil and Steam applicable
- ▶ Applied Seal : FKM, NBR, EPDM

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#### NKV Series

2/2 Way Valve  
(Magnalift)

- ▶ Normally closed
- ▶ Body : Brass
- ▶ 7000 sleeve assembled
- ▶ Coil : All of 7000 sleeve coil available
- ▶ Operated on nearly Zero MOPD
- ▶ Air, Water, Inert gas, Oil and Steam applicable
- ▶ Applied Seal : FKM, NBR, EPDM

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### 221S Series

2/2 Way Valve  
(Magnalift)

- ▶ Normally closed
- ▶ Body : StSt 316
- ▶ 7000 sleeve assembled
- ▶ Coil : All of 7000 sleeve coil available
- ▶ Operated on nearly Zero MOPD
- ▶ Oil, gas, Steam and corrosive fluid applicapable
- ▶ Applied Seal : FKM, EPDM and NBR with factory consult

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### 321G Series

2/2 Way Valve  
(Pilot Operated)

- ▶ Normally Closed
- ▶ Body : Brass
- ▶ 7000 sleeve assembled
- ▶ Coil : All of 7000 sleeve coil available
- ▶ A minimum operating pressure is required
- ▶ Air, Water and Steam applicapable
- ▶ Applied Seal : NBR, EPDM and FKM with factory consult

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### 321K Series

2/2 Way Valve  
(Pilot Operated)

- ▶ Normally Closed
- ▶ Body : Brass
- ▶ 7000 sleeve assembled
- ▶ Coil : All of 7000 sleeve coil available
- ▶ A minimum operating pressure is required
- ▶ Air, Water applicapable
- ▶ Anti-water hammer application
- ▶ Applied Seal : FKM

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### E321H Series

2/2 Way Valve  
(Pilot Operated)

- ▶ Normally Closed
- ▶ Body : Brass
- ▶ 7000 sleeve assembled
- ▶ Coil : All of 7000 sleeve coil available
- ▶ A minimum operating pressure is required
- ▶ Dry or Lubricated air, gases and water
- ▶ High pressure application
- ▶ Applied Seal : FKM, NBR

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### 708N Series

2/2 Way Valve  
(Pilot (Piston) Operated)

- ▶ Normally Closed
- ▶ Body : Brass
- ▶ 7000 sleeve assembled
- ▶ Coil : All of 7000 sleeve coil available
- ▶ A minimum operating pressure is required
- ▶ Steam applicapable in High pressure (8bar) and temperature(180°C)
- ▶ Applied Seal : Teflon

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2/2 way Direct Operated

## Model : 121K/V/F and 122K Series



121K



121V



121F

### Features

- General Purpose Solenoid Valve
- 2-Way Direct lift
- Operated on Zero MOPD
- Air, Water, Inert gas, Oil, Corrosive fluid and Steam applicapable.
- Applied Seal : FKM, Ruby, Teflon and Factory consult need for NBR, EPDM

### Application

- Oil burner and Boiler
- Welding machines
- Water treatment
- Fume analysers
- Gas analysers
- Distribution of light oils
- measurement and control instruments
- Lubrication system

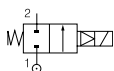
### Specifications

- Body - Brass : 121K/F, 122K  
StSt 303 : 121V
- Seal - FKM, Ruby, Teflon and Factory consult need for NBR, EPDM
- Sleeve - StSt 303, 7000
- Coil - Refer the Electrical part table on the last page
- Body thread type : NPT, PT available with factory consult

## Solenoid Valves

## 121K/122K Series

Normally Closed



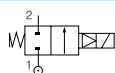
VESSEL MODEL NUMBER	Coil & Housing		PORT SIZE (PF)	Body Orifice Size (mm)	Flow Factor (L/min)		Maximum Operating Pre. (Kg/cm <sup>2</sup> )		Fluid Temp			Seal disc	Power Consumption (W)	
	Global	Korea			QN	Kv	DC	AC	Gas	Liquid	Oil		DC	AC
121KBG2ER00	-	I-1K	1/4"	1.2	50	0.85	43	100	130	130	130	RUBY	14	10
	2995-481865	-					36	80	100	100	100		9	8
	4270-481000	H-1F					43	100	130	130	130		8	8
	4270-486265	H-1H					75	100	120	120	120		14	14
121KBG2GV00	-	I-1K		1.5	80	1.5	20	20	120	120	120	FKM	14	10
	2995-481865	-					20	20	100	100	100		9	8
	4270-481000	H-1F					20	20	120	120	120		8	8
	-	I-1K					30	60	130	130	130	RUBY	14	10
121KBG2GR00	2995-481865	-		1.5	80	1.5	25	60	100	100	100		9	8
	4270-481000	H-1F					30	75	130	130	130		8	8
	4270-486265	H-1H					55	100	120	120	120		14	14
	-	I-1K					30	60	120	120	120	PTFE	14	10
121KBG2GT00	2995-481865	-		1.5	80	1.5	25	60	100	100	100		9	8
	4270-481000	H-1F					30	70	120	120	120		8	8
	4270-486265	H-1H					55	70	120	120	120		14	14
	-	I-1K					16	16	120	120	120	FKM	14	10
121KBG2JV00	2995-481865	-		2.0	140	2.5	12	16	100	100	100		9	8
	-	H-1F					16	16	120	120	120		8	8
	-	I-1K					18	40	130	130	130	RUBY	14	10
	2995-481865	-					15	40	100	100	100		9	8
121KBG2JR00	4270-481000	H-1F		2.0	140	2.5	18	48	130	130	130		8	8
	4270-486265	H-1H					32	70	120	120	120		14	14
	-	I-1K					12	28	120	120	120	PTFE	14	10
	2995-481865	-					10	28	100	100	100		9	8
121KBG2LT00	4270-481000	H-1F		2.5	220	3.5	12	34	120	120	120			
	4270-486265	H-1H					22	50	120	120	120		8	8
	-	I-1K					9	14	120	120	120	FKM	14	10
	2995-481865	-					7	14	100	100	100		9	8
121KBG2LV00	4270-481000	H-1F		2.5	220	3.5	9	14	120	120	120		8	8
	4270-486265	H-1H					14	14	120	120	120		14	14
	-	I-1K					9	14	120	120	120	FKM	14	10
	2995-481865	-					7	14	100	100	100		9	8
121KBG2LVM0 (Manual override)	4270-481000	H-1F		2.5	220	3.5	9	14	120	120	120		8	8
	4270-486265	H-1H					14	14	120	120	120		14	14
	-	I-1K					12	28	130	130	130	RUBY	14	10
	2995-481865	-					10	28	100	100	100		9	8
121KBG2LR00	4270-481000	H-1F		2.5	220	3.5	12	34	130	130	130		8	8
	4270-486265	H-1H					22	50	120	120	120		14	14
	-	I-1K					8.5	10	120	120	120	FKM	14	10
	2995-481865	-					7	10	100	100	100		9	8
121KBG2NV00	4270-481000	H-1F		3.0	315	4.5	8.5	10	120	120	120		8	8
	4270-486265	H-1H					10	10	120	120	120		14	14
	-	I-1K					8.5	10	120	120	120	FKM	14	10
	2995-481865	-					7	10	100	100	100		9	8
121KBG2NVM0 (Manual override)	4270-481000	H-1F		3.0	315	4.5	8.5	10	120	120	120		8	8
	4270-486265	H-1H					10	10	120	120	120		14	14
	-	I-1K					8.5	20	130	130	130	RUBY	14	10
	2995-481865	-					7	20	100	100	100		9	8
121KBG2NR00	4270-481000	H-1F		3.0	315	4.5	8.5	25	130	130	130		8	8
	4270-486265	H-1H					15	36	120	120	120		14	14
	-	I-1K					8.5	20	120	120	120	PTFE	14	10
	2995-481865	-					7	20	100	100	100		9	8
121KBG2NT00	4270-481000	H-1F		3.0	315	4.5	8.5	25	120	120	120		8	8
	4270-486265	H-1H					15	36	120	120	120		14	14
	-	I-1K					5	10	120	120	120	FKM	14	10
	2995-481865	-					4	10	100	100	100		9	8
121KBG2QV00	4270-481000	H-1F		4.0	480	7.5	5	10	120	120	120		8	8
	4270-486265	H-1H					10	10	120	120	120		14	14
	-	I-1K					5	10	120	120	120	FKM	14	10
	2995-481865	-					4	10	100	100	100		9	8
121KBG2QVM0 (Manual Override)	4270-481000	H-1F		4.0	480	7.5	5	10	120	120	120		8	8
	4270-486265	H-1H					10	10	120	120	120		14	14
	-	I-1K					2.8	7	120	120	120	FKM	14	10
	2995-481865	-					2	7	100	100	100		9	8
121KBG2SV00	4270-481000	H-1F		5.0	750	11	2.8	7	120	120	120		8	8
	4270-486265	H-1H					5	7	120	120	120		14	14
	-	I-1K					2.8	7	120	120	120	FKM	14	10
	2995-481865	-					2	7	100	100	100		9	8
121KBG2SVM0 (Manual Override)	4270-481000	H-1F		5.0	750	11	2.8	7	120	120	120		8	8
	4270-486265	H-1H					5	7	120	120	120		14	14
	-	I-1K					20	20	100	100	100	FKM	14	10
	2995-481865	-					20	20	120	120	120		9	8
121VWG2GV00	4270-481000	H-1F		1.5	80	1.5	20	20	120	120	120		8	8
	-	I-1K					16	16	100	100	100	FKM	14	10
	2995-481865	-					12	16	100	100	100			
	-	H-1F					16	16	120	120	120		8	8
121VWG2JV00	-	I-1K		2.0	140	2.5	9	14	120	120	120	FKM	14	10
	2995-481865	-					7	14	100	100	100		9	8
	4270-481000	H-1F					9	14	120	120	120		8	8
	4270-486265	H-1H					14	14	120	120	120		14	14



## Solenoid Valves

## 121K/122K Series

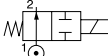
Normally Closed



VESSEL MODEL NUMBER	Coil & Housing		PORT SIZE (PF)	Body Orifice Size (mm)	Flow Factor (L/min)		Maximum Operating Pre.(Kgf/cm <sup>2</sup> )		Fluid Temp			Seal disc	Power Consumption (W)	
	Global	Korea			QN	Kv	DC	AC	Gas	Liquid	Oil		DC	AC
121VG2NV00	-	I-1K	1/4"	3.0	315	4.5	8.5	10	120	120	120	FKM	14	10
	2995-481865	-					7	10	100	100	100		9	8
	4270-481000	H-1F					8.5	10	120	120	120		8	8
	4270-486265	H-1H					10	10	120	120	120		14	14
121VG2QV00	-	I-1K		4.0	480	7.5	5	10	120	120	120	FKM	14	10
	2995-481865	-					4	10	100	100	100		9	8
	4270-481000	H-1F					5	10	120	120	120		8	8
	4270-486265	H-1H					10	10	120	120	120		14	14
121VG2SV00	-	I-1K		5.0	750	11	2.8	7	120	120	120	FKM	14	10
	2995-481865	-					2	7	100	100	100		9	8
	4270-481000	H-1F					2.8	7	120	120	120		8	8
	4270-486265	H-1H					5	7	120	120	120		14	14
121FBF4GV00	-	I-1K	SB	1.5	80	1.5	20	20	120	120	120	FKM	14	10
	2995-481865	-					20	20	100	100	100		9	8
	4270-481000	H-1F					20	20	120	120	120		8	8
121FBF4GR00	-	I-1K		1.5	80	1.5	30	60	130	130	130	RUBY	14	10
	2995-481865	-					25	60	100	100	100		9	8
	4270-481000	H-1F					30	75	130	130	130		8	8
	4270-486265	H-1H					55	100	120	120	120		14	14
121FBF4GT00	-	I-1K		1.5	80	1.5	30	60	120	120	120	PTFE	14	10
	2995-481865	-					25	60	100	100	100		9	8
	4270-481000	H-1F					30	70	120	120	120		8	8
	4270-486265	H-1H					55	70	120	120	120		14	14
121FBF4JV00	-	I-1K		2.0	140	2.5	16	16	120	120	120	FKM	14	10
	2995-481865	-					12	16	100	100	100		8	8
	-	H-1F					16	16	120	120	120		14	10
121FBF4JR00	-	I-1K		2.0	140	2.5	18	40	130	130	130	RUBY	14	10
	2995-481865	-					15	40	100	100	100		9	8
	4270-481000	H-1F					18	48	130	130	130		8	8
	4270-486265	H-1H					32	70	120	120	120		14	14
121FBF4JT00	-	I-1K		2.0	140	2.5	18	40	120	120	120	PTFE	14	10
	2995-481865	-					15	40	100	100	100		9	8
	4270-481000	H-1F					18	48	120	120	120		8	8
	4270-486265	H-1H					32	70	120	120	120		14	14
121FBF4LV00	-	I-1K		2.5	220	3.5	9	14	120	120	120	FKM	14	10
	2995-481865	-					7	14	100	100	100		9	8
	4270-481000	H-1F					9	14	120	120	120		8	8
	4270-486265	H-1H					14	14	120	120	120		14	14
121FBF4LR00	-	I-1K		2.5	220	3.5	12	28	130	130	130	RUBY	14	10
	2995-481865	-					10	28	100	100	100		9	8
	4270-481000	H-1F					12	34	130	130	130		8	8
	4270-486265	H-1H					22	50	120	120	120		14	14
121FBF4LT00	-	I-1K		2.5	220	3.5	12	28	120	120	120	PTFE	14	10
	2995-481865	-					10	28	100	100	100		9	8
	4270-481000	H-1F					12	34	120	120	120		8	8
	4270-486265	H-1H					22	50	120	120	120		14	14
121FBF4NV00	-	I-1K		3.0	315	4.5	8.5	10	120	120	120	FKM	14	10
	2995-481865	-					7	10	100	100	100		9	8
	4270-481000	H-1F					8.5	10	120	120	120		8	8
	4270-486265	H-1H					10	10	120	120	120		14	14
121FBF4NR00	-	I-1K		3.0	315	4.5	8.5	20	130	130	130	RUBY	14	10
	2995-481865	-					7	20	100	100	100		9	8
	4270-481000	H-1F					8.5	25	130	130	130		8	8
	4270-486265	H-1H					15	36	120	120	120		14	14
121FBF4NT00	-	I-1K		3.0	315	4.5	8.5	20	120	120	120	PTFE	14	10
	2995-481865	-					7	20	100	100	100		9	8
	4270-481000	H-1F					8.5	25	120	120	120		8	8
	4270-486265	H-1H					15	36	120	120	120		14	14
121FBF4QV00	-	I-1K		4.0	315	4.5	8.5	10	120	120	120	FKM	14	10
	2995-481865	-					7	10	100	100	100		9	8
	4270-481000	H-1F					8.5	10	120	120	120		8	8
	4270-486265	H-1H					10	10	120	120	120		14	14
121KBR3QVWV(*)	-	I-1K	PT3/8"	4.0	480	7.5	7	10	70	70	70	FKM	14	10
	2995-481865	-					4	10	70	70	70		9	8
	-	H-1H					10	10	100	100	100		8	8
121KBR3SVWV(*)	-	I-1K		5.0	750	11	5	7	70	70	70	FKM	14	10
	2995-481865	-					2	7	70	70	70		9	8
	-	H-1H					5	7	100	100	100		8	8

## Solenoid Valves

## 121K/122K Series

Normally Open 

VESSEL MODEL NUMBER	Coil & Housing		Pipe Size (PF)	Body Orifice Size (mm)	Flow Factor (L/min)		Maximum Operating Pre. (Kgf/cm <sup>2</sup> )		Fluid Temp (°C)	Seal disc	Power Consumption (W)	
	Global	Korea	G Thread		QN	Kv	DC	AC			DC	AC
122K63	4270-486265	H-1H	1/4"	3.2	220	4	-	30	120	RUBY	14	14

Note : (\*) are for korean market only.

\* Connection Thread type : Available NPT, PT. Need consultation

\* Pipe size : 1/8" available, need consultation

## All K/V/F series numbering system

2	3	4	5	6	7	8	9	10	11&12
Actuation	Functional Type	Flow Pattern	Family (Series)	Body Material	Connection	Pipe Size	Orifice code	Seal Material	Options
1 Direct	2 2-way	2-way	1	A Al	A SAE	0 Sub-base	A	C CR	00 No Option
		1 Normally Closed	2	B Brass	E NPT Male	1 1/8"	B	E EPDM	A2 Silver shading
2 Direct Lift	3 3-way	2 Normally Open	4	L Noryl	F Flange	2 1/4"	C	F PCTFE	Ring
		3 Multi purpose	5	R 316SS	G BSP	3 3/8"	D	(Kel F)	J1 Exhaust
3 Pilot operated	4 4-way	9 Normally Open	6	S 430SS	parallel	4 1/2"	E	1.0mm	K PTFE
Internal supply		Pressure in body	8	T Teflon	R BSP	5 3/4"	F	(Kalrez)	M0 Adaptor Nut
		Pressure out sleeve	9	V 303SS	Taper	6 1"	G	1.5mm	L Nylon
									W0 Anti-water
4 Pilot operated			F		J Fitting	7 1-1/4"	J	2.0mm	M Metal
External supply		3-way	G		N NPT Female	8 1-1/2"	L	2.5mm	N NBR
		1 Normally Closed	H		(National	9 2"	N	3.0mm	R Ruby
		2 Normally Open	K		Pipe thread)	C 2-1/2"	Q	4.0mm	T PTFE
5 Remote		3 Multi purpose	R			D 3"	S	5.0mm	(Teflon)
Pressure		8 Diverting	V				U	6.0mm	V FKM
operated		9 Normally Open					1-9	(Viton)	
6 Manual		Pressure out body							
operated		Pressure in sleeve							
		4-way							
		1 2-position							
		2 3-position							

EX)

VESSEL	HOUSING NUT & WASHER	COIL VOLTAGE	REMARK
121KBG2LV00	- 4270	- 481000C2	STD / ALL
131VVG2LV00	- H	- 1F - 4K	KOR ONLY
-	- I	- 1K - C2	ALL



**3/2 Way Direct Operated****Model : 131K/V/F, 133K/F Series**

131/133K



131/133V



131F



131/133K.WV

**Features**

- General Purpose Solenoid Valve
- 3-Way Direct lift
- Operated on Zero MOPD
- Air, Water, Inert gas, Oil, Corrosive fluid and Steam applicable.
- Applied Seal : FKM, Ruby and Factory consult need for NBR, EPDM

**Application**

- Air Compressores
- Diesel oil burners
- Water treatment plants
- Vending machine
- Packing machine

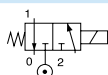
**Specifications**

- Body - Brass : 131K/F, 133K  
303 StSt : 131V
- Seal - FKM, Ruby, PTFE and NBR with factory consult
- Sleeve - StSt 303, 7000
- Coil - Refer the Electrical part table on the last page
- Body thread type : NPT, PT available with factory consult

## Solenoid Valves

## 131K/133K Series

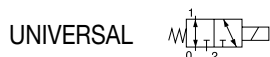
NORMALLY CLOSED



VESSEL MODEL NUMBER	Coil & Housing		PORT SIZE (PF) G Thread	Body Orifice Size (mm)	Flow Factor (L/min)		Min Operating Pre.(Kgf/Cm <sup>2</sup> )	Maximum Operating Pre.(Kgf/cm <sup>2</sup> )		Seal disc	Fluid Temp(°C)			Power Consumption (W)	
	Global	Korea			QN	Kv		DC	AC		Gas	Liquid	Oil	DC	AC
131KBG2BT00	4270-481000	H-1F	1/4"	0.8	-	0.3	0	40	40	PTFE	-	75	75	8	8
131KBG2BR00	4270-481000	H-1F		0.8	-	0.3	0	-	75	RUBY	-	130	-	8	8
	4270-486265	H-1F						75	-		-	140	-	14	14
131KBG2GV00	-	I-1K		1.5	80	1.5	0	15	15	FKM	100	100	100	14	10
	4270-481000	H-1F						15	15		120	120	120	8	8
	2995-481865							15	15		100	100	100	9	8
131KBG2GVM0 (Manual override)	-	I-1K		1.5	80	1.5	0	15	15	FKM	100	100	100	14	10
	4270-481000	H-1F						15	15		120	120	120	8	8
	2995-481865							15	15		100	100	100	9	8
131KBG2JV00	-	I-1K		2.0	140	2.5	0	10	10	FKM	100	100	100	14	10
	4270-481000	H-1F						10	10		120	120	120	8	8
	2995-481865							10	10		100	100	100	9	8
131KBG2JVM0 (Manual override)	-	I-1K		2.0	140	2.5	0	10	10	FKM	100	100	100	14	10
	4270-481000	H-1F						10	10		120	120	120	8	8
	2995-481865							10	10		100	100	100	9	8
131KBG2LV00	-	I-1K		2.5	220	3.5	0	7	7	FKM	100	100	100	14	10
	4270-481000	H-1F						7	7		120	120	120	8	8
	2995-481865							7	7		100	100	100	9	8
131KBG2LVM0 (Manual override)	-	I-1K		2.5	220	3.5	0	7	7	FKM	100	100	100	14	10
	4270-481000	H-1F						7	7		120	120	120	8	8
	2995-481865							7	7		100	100	100	9	8
131VVG2GV00	-	I-1K		1.5	80	1.5	0	15	15	FKM	100	100	100	14	10
	4270-481000	H-1F						15	15		120	120	120	8	8
	2995-481865							15	15		100	100	100	9	8
131VVG2JV00	-	I-1K		2.0	140	2.5	0	10	10	FKM	100	100	100	14	10
	4270-481000	H-1F						10	10		120	120	120	8	8
	2995-481865							10	10		100	100	100	9	8
131VVG2LV00	-	I-1K		2.5	220	3.5	0	7	7	FKM	100	100	100	14	10
	4270-481000	H-1F						7	7		120	120	120	8	8
	2995-481865							7	7		100	100	100	9	8
131FBG4GV00	-	I-1K	SB	1.5	80	1.5	0	15	15	FKM	100	100	100	14	10
	4270-481000	H-1F						15	15		120	120	120	8	8
	2995-481865							15	15		100	100	100	9	8
131FBG4GVM0 (Manual override)	-	I-1K		1.5	80	1.5	0	15	15	FKM	100	100	100	14	10
		H-1F						15	15		120	120	120	8	8
	2995-481865							15	15		100	100	100	9	8
131FBG4JV00	-	I-1K		2.0	140	2.5	0	10	10	FKM	100	100	100	14	10
	4270-481000	H-1F						10	10		120	120	120	8	8
	2995-481865							10	10		100	100	100	9	8
131FBG4JVM0 (Manual override)	-	I-1K		2.0	140	2.5	0	10	10	FKM	100	100	100	14	10
	4270-481000	H-1F						10	10		120	120	120	8	8
	2995-481865							10	10		100	100	100	9	8
131FBG4LV00	-	I-1K		2.5	220	3.5	0	7	7	FKM	100	100	100	14	10
	4270-481000	H-1F						7	7		120	120	120	8	8
	2995-481865							7	7		100	100	100	9	8
131FBG4LVM0 (Manual override)	-	I-1K		2.5	220	3.5	0	7	7	FKM	100	100	100	14	10
	4270-481000	H-1F						7	7		120	120	120	8	8
	2995-481865							7	7		100	100	100	9	8

## Solenoid Valves

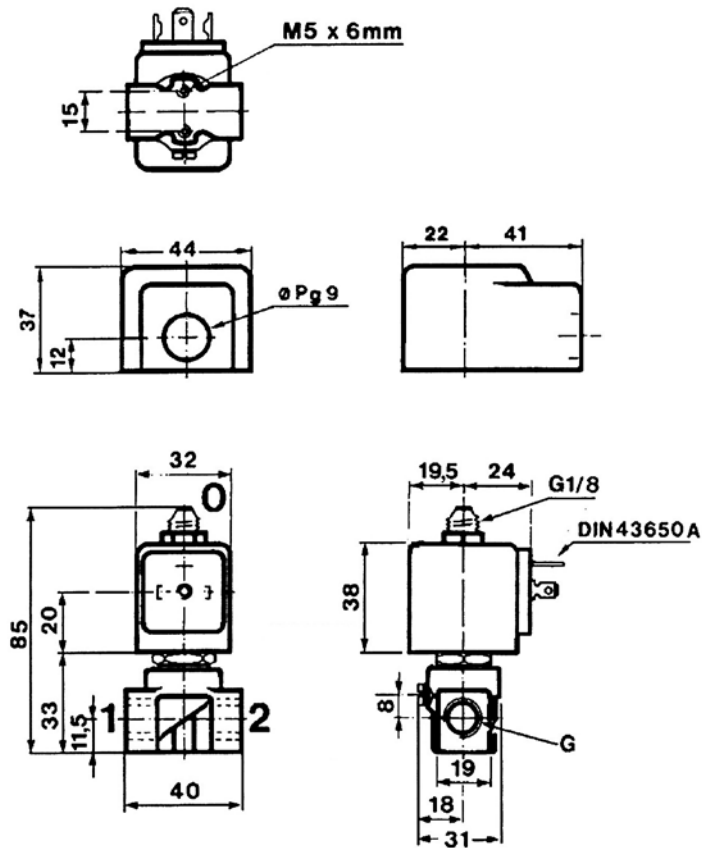
## 131K/133K Series



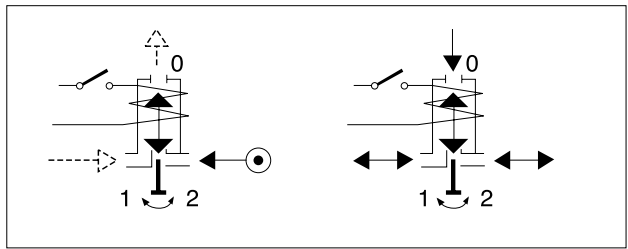
VESSEL MODEL NUMBER	Coil & Housing		PORT SIZE (PF)	Body Orifice Size (mm)	Flow Factor (L/min)		Min Operating Pre.(Kg/ Cm <sup>2</sup> )	Maximum Operating Pre.(Kg/cm <sup>2</sup> )		Seal disc	Fluid Temp(°C)			Power Consumption (W)	
	Global	Korea			QN	Kv		DC	AC		Gas	Liquid	Oil	DC	AC
133KBG2GV00		I-1K	1/4"	1.5	80	1.5	0	10	10	FKM	100	100	100	14	10
	4270-481000	H-1F						10	10		120	120	120	8	8
	2995-481865							10	10		100	100	100	9	8
133KBG2GVM0 (Manual override)		I-1K		1.5	80	1.5	0	10	10	FKM	100	100	100	14	10
	4270-481000	H-1F						10	10		120	120	120	8	8
	2995-481865							10	10		100	100	100	9	8
133KBG2JV00		I-1K		2.0	140	2.5	0	7	7	FKM	100	100	100	14	10
	4270-481000	H-1F						7	7		120	120	120	8	8
	2995-481865							7	7		100	100	100	9	8
133KBG2JVM0 (Manual override)		I-1K		2.0	140	2.5	0	7	7	FKM	100	100	100	14	10
	4270-481000	H-1F						7	7		120	120	120	8	8
	2995-481865							7	7		100	100	100	9	8
133KBG2LV00		I-1K		2.5	220	3.5	0	4	4	FKM	100	100	100	14	10
	4270-481000	H-1F						4	4		120	120	120	8	8
	2995-481865							4	4		100	100	100	9	8
133KBG2LVM0 (Manual override)		I-1K		2.5	220	3.5	0	4	4	FKM	100	100	100	14	10
	4270-481000	H-1F						4	4		120	120	120	8	8
	2995-481865							4	4		100	100	100	9	8
133VVG2GV00		I-1K		1.5	80	1.5	0	10	10	FKM	100	100	100	14	10
	4270-481000	H-1F						10	10		120	120	120	8	8
	2995-481865							10	10		100	100	100	9	8
133VVG2JV00		I-1K		2.0	140	2.5	0	7	7	FKM	100	100	100	14	10
	4270-481000	H-1F						7	7		120	120	120	8	8
	2995-481865							7	7		100	100	100	9	8
133VVG2LV00		I-1K		2.5	220	3.5	0	4	4	FKM	100	100	100	14	10
	4270-481000	H-1F						4	4		120	120	120	8	8
	2995-481865							4	4		100	100	100	9	8
133FBG4GV00		I-1K	SB	1.5	80	1.5	0	10	10	FKM	100	100	100	14	10
	4270-481000	H-1F						10	10		120	120	120	8	8
	2995-481865							10	10		100	100	100	9	8
133FBG4GVM0 (Manual override)		I-1K		1.5	80	1.5	0	10	10	FKM	100	100	100	14	10
	4270-481000	H-1F						10	10		120	120	120	8	8
	2995-481865							10	10		100	100	100	9	8
133FBG4JV00		I-1K		2.0	140	2.5	0	7	7	FKM	100	100	100	14	10
	4270-481000	H-1F						7	7		120	120	120	8	8
	2995-481865							7	7		100	100	100	9	8
133FBG4JVM0 (Manual override)		I-1K		2.0	140	2.5	0	7	7	FKM	100	100	100	14	10
	4270-481000	H-1F						7	7		120	120	120	8	8
	2995-481865							7	7		100	100	100	9	8
133FBG4LV00		I-1K		2.5	220	3.5	0	4	4	FKM	100	100	100	14	10
	4270-481000	H-1F						4	4		120	120	120	8	8
	2995-481865							4	4		100	100	100	9	8
133FBG4LVM0 (Manual override)		I-1K		2.5	220	3.5	0	4	4	FKM	100	100	100	14	10
	4270-481000	H-1F						4	4		120	120	120	8	8
	2995-481865							4	4		100	100	100	9	8

Dimensions

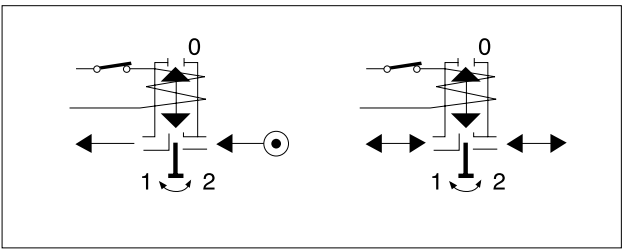
131K, 133K Series



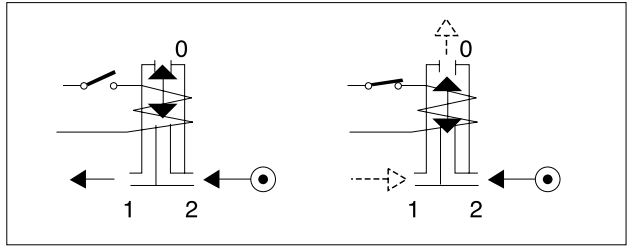
Valve Code Reference



Normal Close



Normal Open



Universal

## 2/2 Way Valve, Direct Operated

## Model : WV121S Series



Brass body with S coil



StSt body with S coil



Brass body with H coil



StSt body with H coil



Plastic body with S coil

## Features

- Normally closed
- Body : Brass, StSt 303, Plastic
- Coil : S or H
- Operated on Zero MOPD
- Air, Water Inert gas, Oil, Corrosive fluid applicable
- Applied Seal : FKM, NBR, Silicon
- A miniature, High Performance
- UL/CE approved for 'S' coil
- Body thread type : NPT, PF available with factory consult

## Specifications

- Body - Brass, StSt 303
- Seal - FKM and NBR with factory consult
- Sleeve - StSt 303, 7000
- Coil - Refer the Electrical part table on the last page
- Long life cycle (1 Million)
- Manifold configurations
- Standard FKM seal
- UL & CE components recognized

## Valve body numbering

Valve Body	Port & Body	Orifice Size (mm)	Flow Factor (Kv)	Maximum Operating Pressure(kgf/cm <sup>2</sup> )		Fluid Temp °C
				DC	AC	
WV121S221GV	1/8 inch, PT, Brass	1.6	1.3	10	15	75
WV121S221JV		2.0	1.9	7	10	75
WV121S221LV		2.5	2.8	5	7	75
WV121S221NV		3.0	3.2	4	5	75
WV121S221QV		4.0	3.5	2	4	75
WV121S222GV	1/4 inch, PT, Brass	1.6	1.3	10	15	75
WV121S222JV		2.0	1.9	7	10	75
WV121S222LV		2.5	2.8	5	7	75
WV121S222NV		3.0	3.2	4	5	75
WV121S222QV		4.0	3.5	2	4	75
WV121S121GV	1/8 inch, PT, St steel	1.6	1.3	10	15	75
WV121S121JV		2.0	1.9	7	10	75
WV121S121LV		2.5	2.8	5	7	75
WV121S121NV		3.0	3.2	4	5	75
WV121S121QV		4.0	3.5	2	4	75
WV121S122GV	1/4 inch, PT, St Steel	1.6	1.3	10	15	75
WV121S122JV		2.0	1.9	7	10	75
WV121S122LV		2.5	2.8	5	7	75
WV121S122NV		3.0	3.2	4	5	75
WV121S122QV		4.0	3.5	2	4	75
121S432KS	1/4 Inch, NPT, Plastic	2.5	2.8	5	7	75

## Coil numbering

You can add following coil number to valve body part number

- 1) I-1S Coil : 5 different voltage available  
 I-1S-P0 : AC24/50~60 (5W)  
 I-1S-P3 : AC110/50, AC120/60 (5W)  
 I-1S-Q3 : AC220/50, AC240/60 (5.5W)  
 I-1S-C1 : DC12V (6W)  
 I-1S-C2 : DC24V (6W)
- 2) H-WS Coil : 4 different voltage available  
 H-WS-B5 : AC110/60 (8W)  
 H-WS-B7 : AC220/60 (8W)  
 H-WS-C1 : DC12V (9W)  
 H-WS-C2 : DC24V (9W)

## Ordering example

If you want brass body, 1/8 inch pipe size with PT connection, I coil with AC240V/50Hz, then, you can order as follows.

Factory consult need for NPT, PF thread

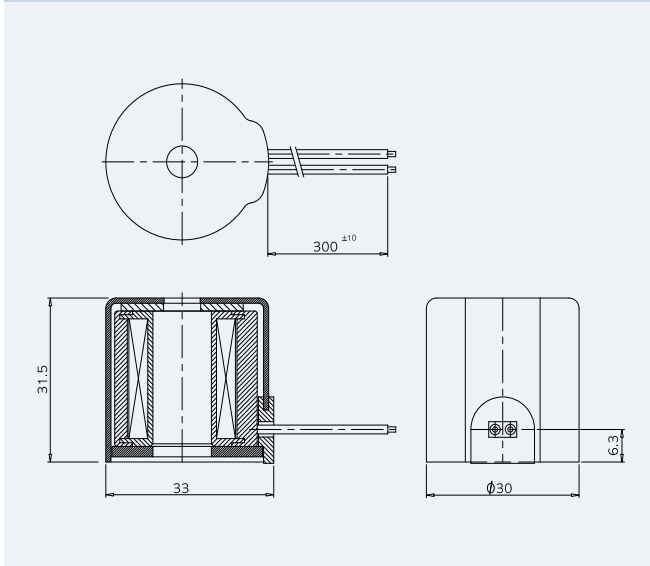
**"WV121S221LV I-1S-Q3"**

## Solenoid Valves

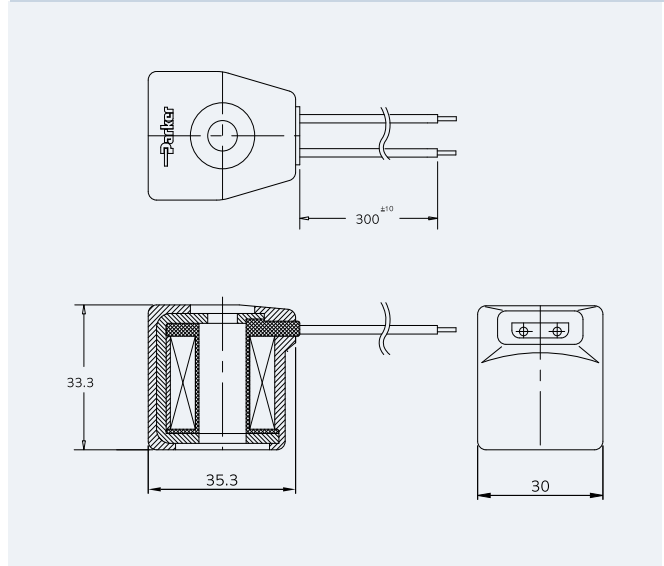
### Drawing

(Unit : mm)

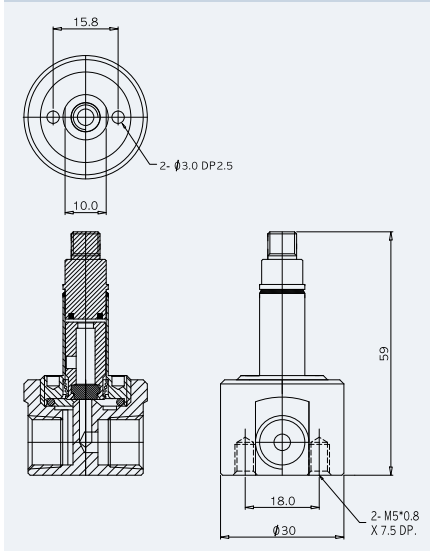
**H-WS Coil Assembly**



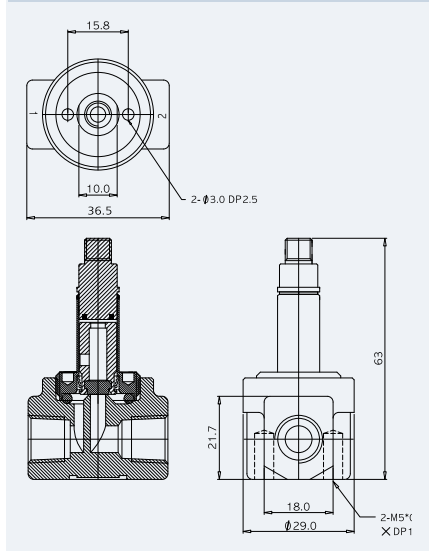
**I-1S Coil Assembly**



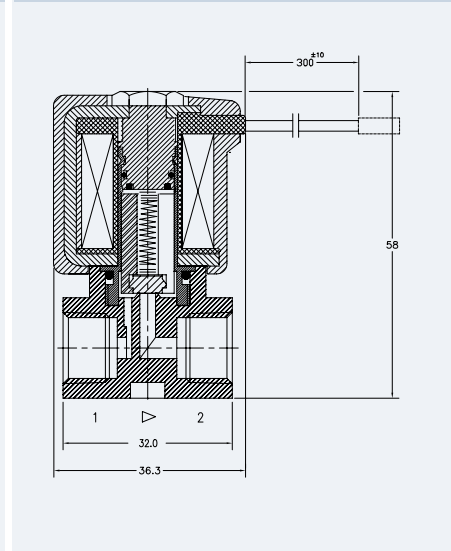
**St. steel 303 Body Assembly**



**Brass Body Assembly**



**Plastic Body Assembly**





## 3/2 Way Direct Operated

## Model : WV131S Series



Brass body with S coil



StSt body with S coil

## Features

- Normally Closed
- Body : Brass, StSt 303
- Coil : S or H
- Operated on Zero MOPD
- Air, Water Inert gas, Oil, Corrosive fluid applicable
- Applied Seal : FKM, NBR
- A miniature, High Performance
- UL/CE approved for 'S' coil
- Body thread type : NPT, PF available with factory consult

## Specifications

- Body -Brass, StSt 303
- Seal -FKM and NBR with factory consult
- Sleeve -StSt 303, 7000
- Coil -Refer the Electrical part table on the last page

## Response Time

- 25 to 40 milliseconds

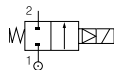
## Duty Cycle

- Continuous Duty

## Mounting

- For direct pipe mounting or 2-M 5 \* 0.8 mm screws

Normally Closed



VESSEL MODEL NUMBER	COIL & HOUSING	Pipe Size	Body Kv Factor	Sleeve Orifice Size (mm)	Body Orifice Size (mm)	Maximum Operating Pressure( Kg/cm <sup>2</sup> )		Seal disc	Fluid Temp.
						DC	AC		
WV131S222GV	I-1S-XX	PT 1/4	1.3	1.6	1.6	6	6	FKM	75
	H-WS-XX								
WV131S222JV	I-1S-XX		1.9	1.6	2.0	4.5	4.5	FKM	75
	H-WS-XX								
WV131S222LV	I-1S-XX		2.8	1.6	2.5	3	3	FKM	75
	H-WS-XX								

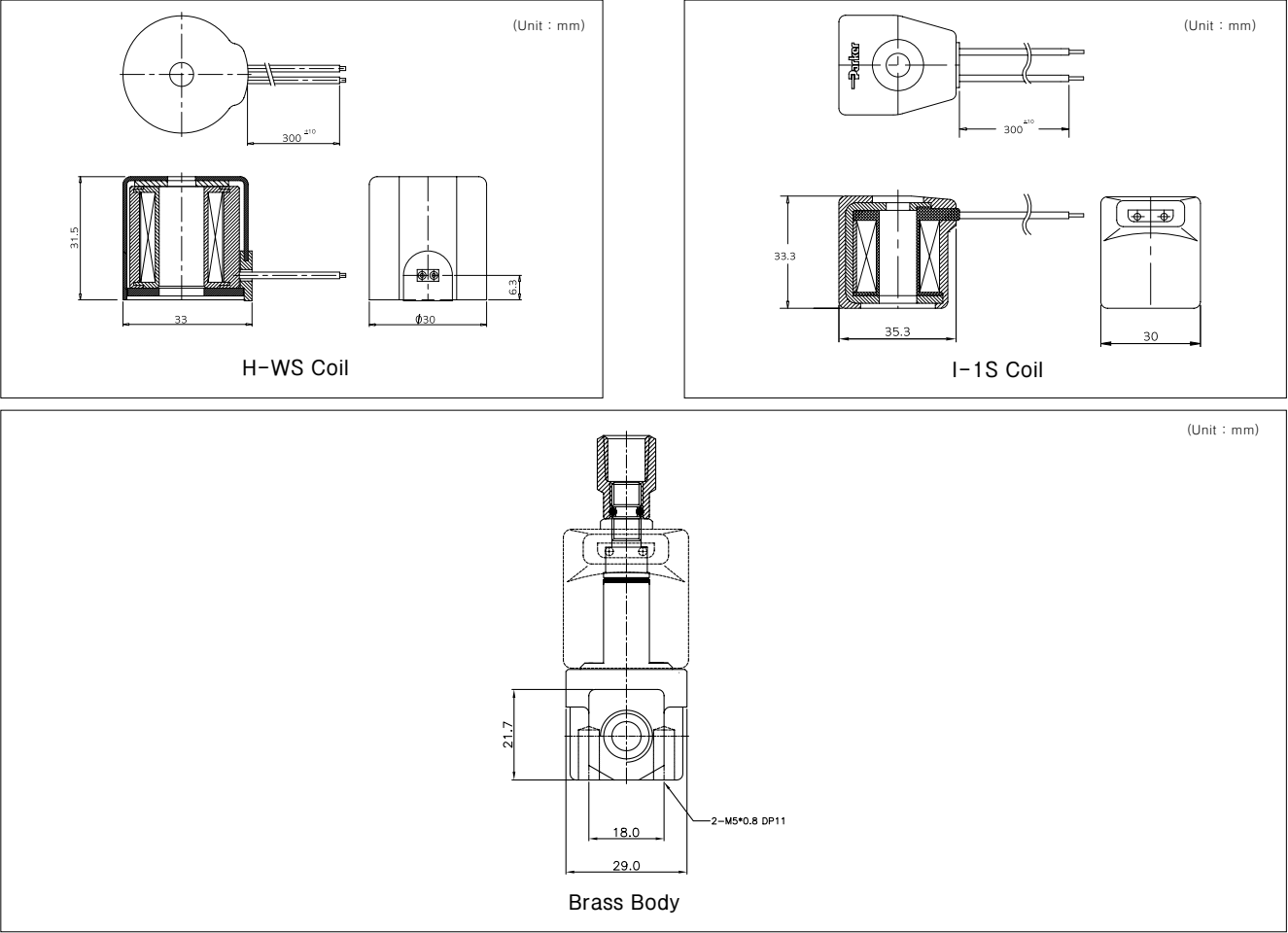
\* Connection Thread type : Available NPT, PT. Need consultation

\* Pipe size : 1/8" available, need consultation

\* StSt 303 body available with factory consult

Solenoid Valves

Drawing



WV121/131 Series Numbering system

1		2		3		4	5		6		7		8		9		10	11											
Actuation		Functional Type		Flow Pattern		Family (Series)	Body Material		Connection		Pipe Size		Orifice code		Seal Material		Coil type	Voltage/Hz											
1	Direct	2	2-way	1	N.C	S	1	SUS303	1	PF	1	1/8"	G	1.6mm	N	NBR	I-1S	P0	AC24/50~60										
			3		3-way			2		N.O				2		Brass		2	PT	2	1/4"	J	2.0mm	E	EPDM	P3	AC110/50,AC120/60		
			3		MULTI			3		NPT								L	2.5mm			V	VITON	Q3	AC220/50,AC240/60				
			9		Pressure out the sleeve																							C1	DC12V
																												Q	4.0mm
		3	3-way	3-way	Pressure out the sleeve													H-WS	P0	AC24/50~60									
																			B5	AC110/60									
																			B7	AC220/60									
																			C1	DC12V									
																			C2	DC24V									

## 2/2Way Magnalift

## Model : 221G Series



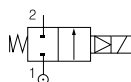
## Features

- Normally closed
- Body : Brass
- 7000 sleeve assembled
- Coil : All of 7000 sleeve coil available
- Operated on nearly Zero MOPD
- Air, Water, Inert gas, Oil and Steam applicable
- Applied Seal : FKM, NBR, EPDM
- Body thread type : NPT, PT available with factory consult

## Application

- Thermohydraulic system • Autoclaves
- Oil burner, Bolier • Molding machines
- Steam generators • Sterilisation system
- Industrial washing machines
- Washing system • Boiling system
- Cooling of machine tools • Hospital equipment

Normally Closed, Water, Air, Gas, light oil

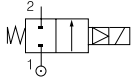


REFERENCE NO.				PORT SIZE (PF) G Thread	ORIFICE (mm)	FLOW ( L / min)			ADMISSIBLE DIFF. PRESSURE (BAR)			MAX. FLUID TEMP.(°C)			SEAL	Power ( W )	
VESSEL NO.	HOUSING	COIL				Liquids		Gases Qn	Min	Max		Gas	Liquids	Oil		DC	AC
		Gobal	Korea			kv	Qmax			DC	AC						
221G13	I	-	1K	3/8"	15	65	65	4500	0	-	16	100	75	100	NBR	14	10
	2995	481865	-							-	16	100	75	100		9	8
	4270	481000	-							-	16	100	75	100		8	8
	4270	486265	-							7	-	100	75	100		14	14
	H	-	1F							-	16	100	75	100		8	8
	H	-	1H							7	-	100	75	100		14	14
221G23	I	-	1K		15	65	65	4500	0	-	16	100	-	100	FKM	14	10
	2995	481865	-							-	16	100	-	100		9	8
	4270	481000	-							-	16	120	-	120		8	8
	4270	486265	-							7	20	120	-	140		14	10
	H	-	1F							-	16	120	-	120		8	8
	H	-	1H							7	20	120	-	140		14	10
221G15	I	-	1K	1/2"	15	65	65	4500	0	-	16	100	75	100	NBR	14	10
	2995	481865	-							-	16	100	75	100		9	8
	4270	481000	-							-	16	100	75	100		8	8
	4270	486265	-							7	-	100	75	100		14	14
	H	-	1F							-	16	100	75	100		8	8
	H	-	1H							7	-	100	75	100		14	14
221G25	I	-	1K		15	65	65	4500	0	-	16	100	-	100	FKM	14	10
	2995	481865	-							-	16	100	-	100		9	8
	4270	481000	-							-	16	120	-	120		8	8
	4270	486265	-							7	20	120	-	140		14	10
	H	-	1F							-	16	120	-	120		8	8
	H	-	1H							7	20	120	-	140		14	10
221G16	I	-	1K	3/4"	15	80	80	6000	0	-	16	100	75	100	NBR	14	10
	2995	481865	-							-	16	100	75	100		9	8
	4270	481000	-							-	16	100	75	100		8	8
	4270	486265	-							7	-	100	75	100		14	14
	H	-	1F							-	16	100	75	100		8	8
	H	-	1H							7	-	100	75	100		14	14
221G26	I	-	1K		15	80	80	6000	0	-	16	100	-	100	FKM	14	10
	2995	481865	-							-	16	100	-	100		9	8
	4270	481000	-							-	16	120	-	120		8	8
	4270	486265	-							7	20	120	-	140		14	10
	H	-	1F							-	16	120	-	120		8	8
	H	-	1H							7	20	120	-	140		14	10
221G17	I	-	1K	1"	15	80	80	6000	0	-	16	100	75	100	NBR	14	10
	2995	481865	-							-	16	100	75	100		9	8
	4270	481000	-							-	16	100	75	100		8	8
	4270	486265	-							7	-	100	75	100		14	14
	H	-	1F							-	16	100	75	100		8	8
	H	-	1H							7	-	100	75	100		14	14
221G27	I	-	1K		15	80	80	6000	0	-	16	100	-	100	FKM	14	10
	2995	481865	-							-	16	100	-	100		9	8
	4270	481000	-							-	16	120	-	120		8	8
	4270	486265	-							7	20	120	-	140		14	10
	H	-	1F							-	16	120	-	120		8	8
	H	-	1H							7	20	120	-	140		14	10

# Solenoid Valves

## 221G Series

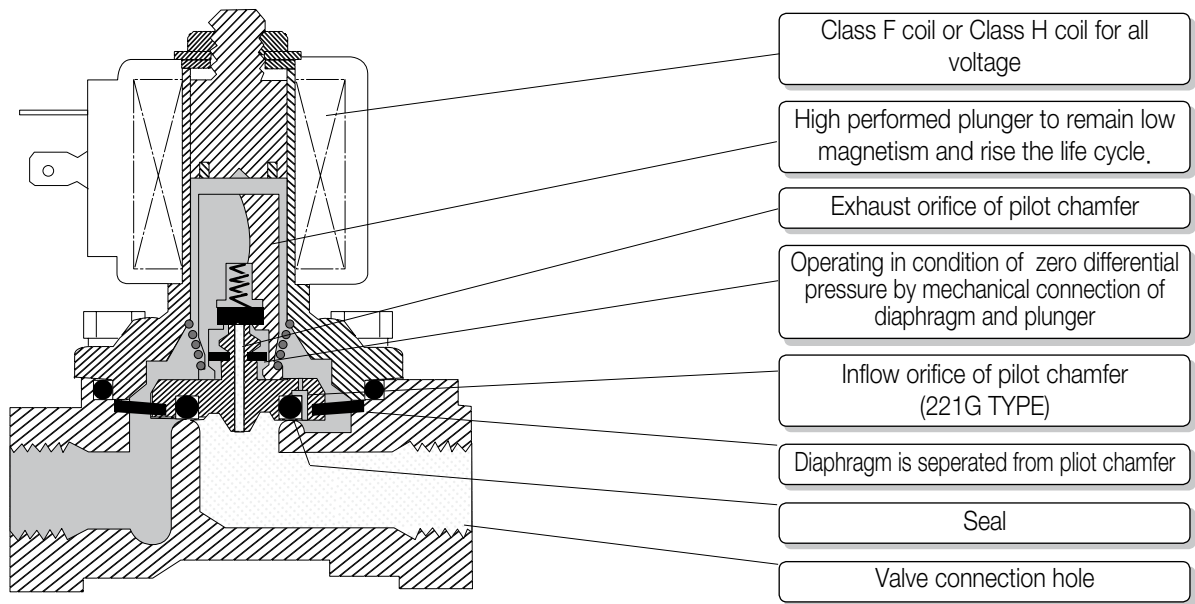
Normally Closed, Steam application



REFERENCE NO.				PORT SIZE (PF) G Thread	ORIFICE (mm)	FLOW ( L / min)			ADMISSIBLE DIFF. PRESSURE (BAR)		MAX. FLUID TEMP.(°C)		SEAL	Power ( W )		
VESSEL NO.	HOUSING	COIL				Liquids		Gases	Min	Max		WATER		STEAM	DC	AC
		Gobal	Korea			kv	Qmax	Qn		DC	AC					
221G1303	I	-	1K	3/8"	15	65	65	4500	0	-	10	100	-	EPDM	14	10
	2995	481865	481865							-	10	100	-		9	8
	4270	481000	1F							-	10	120	-		8	8
	4270	486265	-							7	10	120	-		14	14
	4270	486265	-							4	4	-	140		14	14
	H	-	1H							7	10	120	-		14	14
	H	-	1H							4	4	-	140		14	14
221G1503	I	-	1K	1/2"	15	65	65	4500	0	-	10	100	-	EPDM	14	10
	2995	481865	481865							-	10	100	-		9	8
	4270	481000	1F							-	10	120	-		8	8
	4270	486265	-							7	10	120	-		14	14
	4270	486265	-							4	4	-	140		14	14
	H	-	1H							7	10	120	-		14	14
	H	-	1H							4	4	-	140		14	14
221G1603	I	-	1K	3/4"	15	80	80	6000	0	-	10	100	-	EPDM	14	10
	2995	481865	481865							-	10	100	-		9	8
	4270	481000	1F							-	10	120	-		8	8
	4270	486265	-							7	10	120	-		14	14
	4270	486265	-							4	4	-	140		14	14
	H	-	1H							7	10	120	-		14	14
	H	-	1H							4	4	-	140		14	14
221G1703	I	-	1K	1"	15	80	80	6000	0	-	10	100	-	EPDM	14	10
	2995	481865	481865							-	10	100	-		9	8
	4270	481000	1F							-	10	120	-		8	8
	4270	486265	-							7	10	120	-		14	14
	4270	486265	-							4	4	-	140		14	14
	H	-	1H							7	10	120	-		14	14
	H	-	1H							4	4	-	140		14	14

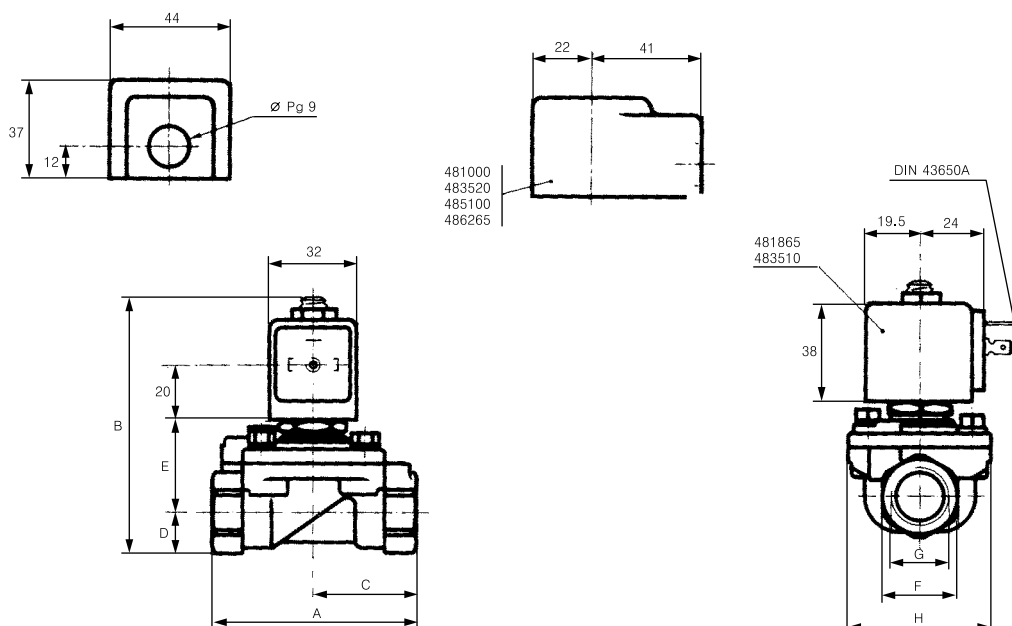
\*Port type : Available NPT, PT . Need consultation

VALVE SECTION



Modle	Dimension							
	A	B	C	D	E	F	G	H
221G 3/8"	75	93	37,5	15	34	27	10	-
221G 1/2"	75	93	37,5	15	34	27	15	-
221G 3/4"	80	95,5	40	17,5	34	32	20	53
221G 1"	85	102,5	42,5	22,5	46	41	25	53

Dimensions



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## 2/2 Way Valve (Magnalift)

# Model : NKV Series



### Features

- Normally closed
- Body : Brass
- 7000 sleeve assembled
- Coil : All of 7000 sleeve coil available
- Operated on nearly Zero MOPD
- Air, Water, Inert gas, Oil and Steam applicapable
- Applied Seal : FKM, NBR, EPDM
- Body thread type : NPT, PF available with factory consult

### Specification

#### Major material features

- Body -Brass
- Seal -FKM,EPDM ,NBR
- Sleeve - StSt 303 ,7000

#### Rated Voltage & Power Consumption

- Please refer to table #1 on the back side

#### Respons time

- Open / Close time : 80 ~ 100 ms

#### Ambient temperature

- 0 ~ 50°C

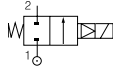
#### Fluid temperature

- 60°C Water & Air (NBR)
- 100°C Oil (FKM)
- 140°C Steam (EPDM)

#### Port size Rc (PT)

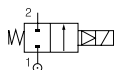
- 1/2", 3/4", 1"  
(PF/NPT, Factory Consulting)

Normally closed ,Air,Water, Oil ,Steam



REFERENCE NO.				PORT SIZE (PT) Thread	ORIFICE (mm)	FLOW (L/MIN) (L / min) Liquids KV	ADMISSIBLE DIFF. PRESSURE (BAR)			MAX. FLUID TEMP.(℃)		SEAL	Power (W)	
VESSEL NO.	HOUSING	COIL					Min	Max		Water	Oil		DC	AC
		Gobal	Korea					DC	AC					
NKV10N	I	-	1K	3/8"	15	40	0	-	10	60	-	NBR	14	10
	2995	481865	-					-	10	60	-		9	8
	4270	481000	-					-	10	60	-		8	8
	4270	486265	-					7	10	60	-		14	14
	H	-	1F					-	10	60	-		8	8
	H	-	1H					7	10	60	-		14	14
NKV10F	2995	481865	-		15	40	0	-	10	60	100	FKM	9	8
	4270	481000	-					-	10	60	100		8	8
	4270	486265	-					7	10	60	100		14	14
	H	-	1F					-	10	60	100		8	8
	H	-	1H					7	10	60	100		14	14
NKV15N	I	-	1K	1/2"	15	50	0	-	10	60	-	NBR	14	10
	2995	481865	-					-	10	60	-		9	8
	4270	481000	-					-	10	60	-		8	8
	4270	486265	-					7	10	60	-		14	14
	H	-	1F					-	10	60	-		8	8
	H	-	1H					7	10	60	-		14	14
NKV15F	2995	481865	-		15	50	0	-	10	60	100	FKM	9	8
	4270	481000	-					-	10	60	100		8	8
	4270	486265	-					7	10	60	100		14	14
	H	-	1F					-	10	60	100		8	8
	H	-	1H					7	10	60	100		14	14
NKV20N	I	-	1K	3/4"	24	90	0	-	10	60	-	NBR	14	10
	2995	481865	-					-	10	60	-		9	8
	4270	481000	-					-	10	60	-		8	8
	4270	486265	-					7	10	60	-		14	14
	H	-	1F					-	10	60	-		8	8
	H	-	1H					7	10	60	-		14	14
NKV20F	2995	481865	-		24	90	0	-	10	60	100	FKM	9	8
	4270	481000	-					-	10	60	100		8	8
	4270	486265	-					7	10	60	100		14	14
	H	-	1F					-	10	60	100		8	8
	H	-	1H					7	10	60	100		14	14
NKV25N	I	-	1K	1"	27	120	0	-	10	60	-	NBR	14	10
	2995	481865	-					-	10	60	-		9	8
	4270	481000	-					-	10	60	-		8	8
	4270	486265	-					7	10	60	-		14	14
	H	-	1F					-	10	60	-		8	8
	H	-	1H					7	10	60	-		14	14
NKV25F	2995	481865	-		27	120	0	-	10	60	100	FKM	9	8
	4270	481000	-					-	10	60	100		8	8
	4270	486265	-					7	10	60	100		14	14
	H	-	1F					-	10	60	100		8	8
	H	-	1H					7	10	60	100		14	14

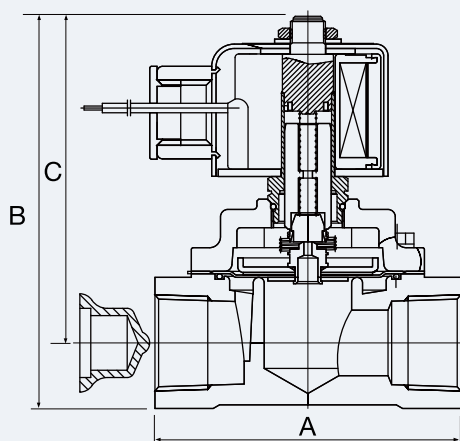
Normally Closed, Steam application



REFERENCE NO.				PORT SIZE (PT) Thread	ORIFICE (mm)	FLOW (L/MIN) ( L / min ) Liquids kv	ADMISSIBLE DIFF. PRESSURE (BAR)		MAX. FLUID TEMP. (°C)		SEAL	Power ( W )		
VESSEL NO.	HOUSING	COIL					Min	Max		WATER		STEAM	DC	AC
		Gobal	Korea					DC	AC					
NKV10E	I	-	1K	3/8"	15	40	0	-	10	80	-	EPDM	14	10
	2995	481865	481865					-	10	80	-		9	8
	4270	481000	1F					-	10	80	-		8	8
	4270	486265	-					7	10	80	-		14	14
	4270	486265	-					4	4	80	140		14	14
	H	-	1H					7	10	80	-		14	14
	H	-	1H					4	4	80	140		14	14
NKV15E	I	-	1K	1/2"	15	50	0	-	10	80	-	EPDM	14	10
	2995	481865	481865					-	10	80	-		9	8
	4270	481000	1F					-	10	80	-		8	8
	4270	486265	-					7	10	80	-		14	14
	4270	486265	-					4	4	80	140		14	14
	H	-	1H					7	10	80	-		14	14
	H	-	1H					4	4	80	140		14	14
NKV20E	I	-	1K	3/4"	24	90	0	-	10	80	-	EPDM	14	10
	2995	481865	481865					-	10	80	-		9	8
	4270	481000	1F					-	10	80	-		8	8
	4270	486265	-					7	10	80	-		14	14
	4270	486265	-					4	4	80	140		14	14
	H	-	1H					7	10	80	-		14	14
	H	-	1H					4	4	80	140		14	14
NKV25E	I	-	1K	1"	27	120	0	-	10	80	-	EPDM	14	10
	2995	481865	481865					-	10	80	-		9	8
	4270	481000	1F					-	10	80	-		8	8
	4270	486265	-					7	10	80	-		14	14
	4270	486265	-					4	4	80	140		14	14
	H	-	1H					7	10	80	-		14	14
	H	-	1H					4	4	80	140		14	14

## Dimensions

## NKV Series



(Unit : mm)

Series(Fitting size)	Dimension		
	A	B	C
NKV 3/8"	72	100	85
NKV 1/2"	72	100	85
NKV 3/4"	84	108	90
NKV 1"	95	118	95

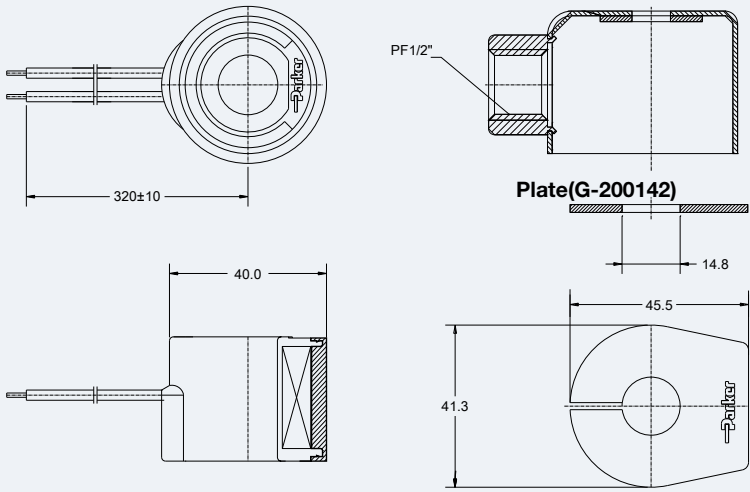
Solenoid Valves

H-1F / H-1H

**Coil** G-200146("F" Class)  
G-200148("H" Class)

**Enclosure**  
**Housing(G-200140)**

(Unit : mm)



Rated Voltage & Power Consumption

(Table #1)

Code	Volts / Hz	Watt	Coil
C1	DC12	14	H-1H
C2	DC24		
A2	24/50	8	H-1F
B2	24/50		
6J	110/60, 115/60		
0A	110/50, 115/50		
4K	220/60, 240/60		
3A	220/50, 230/50		
A2	24/50	14	H-1H
OP	100/50, 115/60		
A5	110/50		
B7	220/60		
S2	200/50, 230/60		
A7	220/50		

How to Order

NKV 15 N-H-1F-C1

① ② ③ ④ ⑤

① Valve series

② Port size

- 10 PT3/8"
- 15 PT1/2"
- 20 PT 3/4"
- 25 PT1"

③ Seal material

- N NBR
- F FKM
- E EPDM

④ Enclosure & Coil

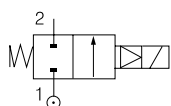
- H-1F 1/2" PF Conduit  
8 Watt, "F" Class
- H-1H 1/2" PF Conduit  
14 Watt, "H" Class

⑤ Rated voltage code

See Table #1

## 2/2 Way Valve (Magnalift)

## Model : 221S Series



## Features

- Normally closed
- Body : StSt 316
- 7000 sleeve assembled
- Coil : All of 7000 sleeve coil available
- Operated on nearly Zero MOPD
- Oil, gas, Steam and corrosive fluid applicapable
- Applied Seal : FKM, EPDM and NBR with factory consult
- Body thread type : NPT, PT available with factory consult

## Application

- Chiller (Semiconductor)
- Food and fluid Press process
- Oil and gas applied equipment
- Printing machine
- Testing equipment

## Normally Cloased

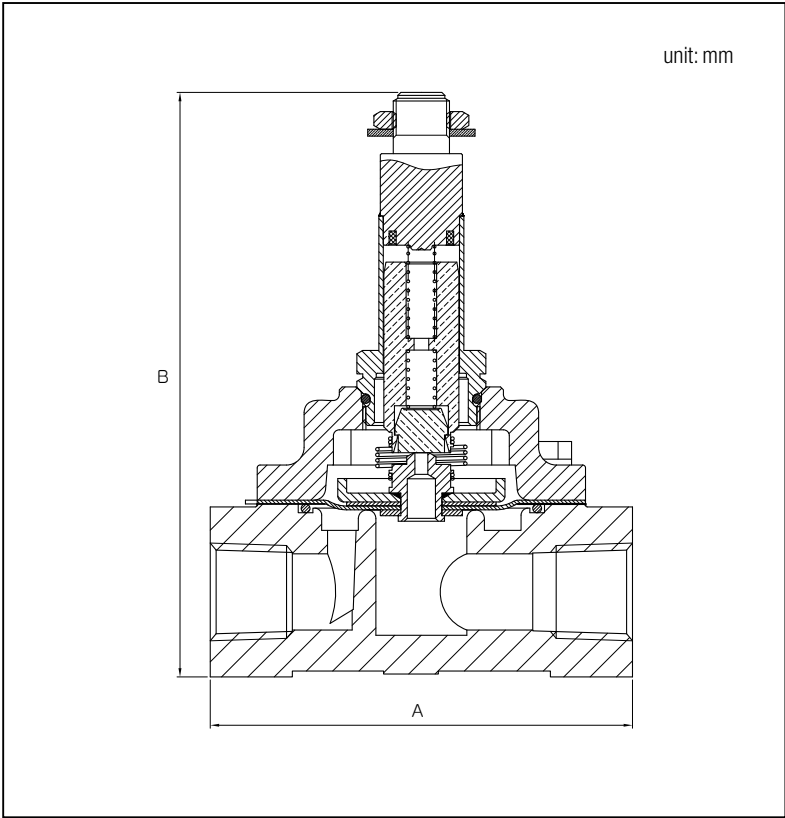
REFERENCE NO.				PORT SIZE (PF) G Thread	ORIFICE (mm)	FLOW (L/MIN) (L / min) Liquids KV	ADMISSIBLE DIFF. PRESSURE (BAR)			MAX. FLUID TEMP.(°C)		SEAL	Power (W)		
VESSEL NO. Lucifer	HOUSING	COIL					Min	Max		Water	Steam			DC	AC
		Gobal	Korea					DC	AC						
221S10F	I	-	1K	3/8"	15	40	0	-	10	85		FKM	14	10	
	2995	481865	-					-	10	85			9	8	
	4270	481000	-					-	10	85			8	8	
	4270	486265	-					7	10	85			14	14	
	H	-	1F					-	10	85			8	8	
	H	-	1H					7	10	85			14	14	
221S10E	2995	481865	-		15	40	0	-	10	85	-	EPDM	9	8	
	4270	481000	-					-	10	85	-		8	8	
	4270	486265	-					4	4	-	140		14	14	
	H	-	1F					-	10	85			8	8	
	H	-	1H					4	4	-	140		14	14	
221S15F	I	-	1K	1/2"	15	50	0	-	10	85		FKM	14	10	
	2995	481865	-					-	10	85			9	8	
	4270	481000	-					-	10	85			8	8	
	4270	486265	-					7	10	85			14	14	
	H	-	1F					-	10	85			8	8	
	H	-	1H					7	10	85			14	14	
221S15E	2995	481865	-		15	50	0	-	10	85		EPDM	9	8	
	4270	481000	-					-	10	85			8	8	
	4270	486265	-					4	4	-	140		14	14	
	H	-	1F					-	10	85			8	8	
	H	-	1H					4	4	-	140		14	14	

Solenoid Valves

Normally Closed

REFERENCE NO.				PORT SIZE (PF) G Thread	ORIFICE (mm)	FLOW (L/MIN) (L / min) Liquids KV	ADMISSIBLE DIFF. PRESSURE (BAR)			MAX. FLUID TEMP.(°C)		SEAL	Power (W)		
VESSEL NO. Lucifer	HOUSING	COIL					Min	Max		Water	Steam		DC	AC	
		Gobal	Korea					DC	AC						
221S20F	I	-	1K	3/4"	24	95	0	-	10	85		FKM	14	10	
	2995	481865	-					-	10	85			9	8	
	4270	481000	-					-	10	85			8	8	
	4270	486265	-					7	10	85			14	14	
	H	-	1F					-	10	85			8	8	
	H	-	1H					7	10	85			14	14	
221S20E	2995	481865	-		24	95	0	-	10	85		FKM	9	8	
	4270	481000	-					-	10	85			8	8	
	4270	486265	-					4	10	-	140		14	14	
	H	-	1F					-	10	85			8	8	
	H	-	1H					4	10	-	140		14	14	
221S25F	I	-	1K		1'	24	105	0	-	10	85		FKM	14	10
	2995	481865	-						-	10	85			9	8
	4270	481000	-	-					10	85		8		8	
	4270	486265	-	7					10	85		14		14	
	H	-	1F	-					10	85		8		8	
	H	-	1H	7					10	85		14		14	
221S25E	2995	481865	-	24		105	0	-	10	85		EPDM	9	8	
	4270	481000	-					-	10	85			8	8	
	4270	486265	-					4	4	85	140		14	14	
	H	-	1F					-	10	85			8	8	
	H	-	1H					4	4	85	140		14	14	

Dimension



Size	Model			
	221S10F	221S15F	221S20F	221S25F
A	72	72	72	83
B	100	100	117	117



## 2/2Way Pilot Operated

## Model : 321G Series

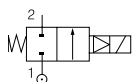


## Features

- General Purpose Solenoid Valve
- 2-Way Pilot Operated
- Air, Water, and Steam applicable.
- Applied Seal : NBR, EPDM

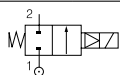
## Application

- Water treatment plants
- Industrial washing plants
- Irrigation Systems
- HVAC
- Cooling System
- Fire-fighting system



Normally Closed, Water, Air application

REFERENCE NO.				PORT SIZE (PF) G Thread	ORIFICE (mm)	FLOW (L/MIN) ( L / min ) Liquids KV	ADMISSIBLE DIFF. PRESSURE (BAR)			MAX. FLUID (°C)	SEAL	Power ( W )	
VESSEL NO.	HOUSING	COIL					Min	Max				Water	DC
		Gobal	Korea										
E321G3610	I	-	1K	3/4"	20	135	0.3	16	16	75	NBR	14	10
	2995	481865	-					16	16	75		9	8
	4270	481000	-					16	16	75		8	8
	H	-	1F					16	16	75		8	8
E321G3710	I	-	1K	1"	25	180	0.3	16	16	75	NBR	14	10
	2995	481865	-					16	16	75		9	8
	4270	481000	-					16	16	75		8	8
	H	-	1F					16	16	75		8	8
E321G3810	I	-	1K	1-1/4"	28	280	0.3	16	16	75	NBR	14	10
	2995	481865	-					16	16	75		9	8
	4270	481000	-					16	16	75		8	8
	H	-	1F					16	16	75		8	8
	4270	486265	-					16	20	75		14	14
	H	-	1H					16	20	75		14	14
E321G3910	I	-	1K	1-1/2"	40	420	0.3	8.5	16	75	NBR	14	10
	2995	481865	-					10	16	75		9	8
	4270	481000	-					8.5	16	75		8	8
	4270	486265	-					16	20	75		14	14
	H	-	1F					8.5	16	75		8	8
	H	-	1H					16	20	75		14	14
E321G4010	I	-	1K	2"	40	560	0.3	8.5	16	75	NBR	14	10
	2995	481865	-					10	16	75		9	8
	4270	481000	-					8.5	16	75		8	8
	4270	486265	-					16	20	75		14	14
	H	-	1F					8.5	16	75		8	8
	H	-	1H					16	20	75		14	14



Normally Closed, Steam application

REFERENCE NO.				PORT SIZE(PF) G Thread	ORIFICE (mm)	FLOW ( L / min ) Liquids kv	ADMISSIBLE DIFF. PRESSURE (BAR)		MAX. FLUI(°C)		SEAL	Power ( W )		
VESSEL NO.	HOUSING	COIL					Min	Max		WATER		Steam	DC	AC
		Gobal	Korea					DC	AC					
321G3803	I	-	1K	1-1/4"	28	280	0.3	16	16	100	-	EPDM	14	10
	2995	481865	481865					16	16	100	-		9	8
	4270	481000	1F					16	16	120	-		8	8
	4270	486265	-					4	4	-	145		14	14
	H	-	1H					4	4	-	145		14	14
321G3903	I	-	1K	1-1/2"	40	420	0.3	14	16	100	-	EPDM	14	10
	2995	481865	481865					10	16	100	-		9	8
	4270	481000	1F					8.5	16	120	-		8	8
	4270	486265	-					4	4	-	145		14	14
	H	-	1H					4	4	-	145		14	14
321G4003	I	-	1K	1"	40	560	0.3	14	16	100	100	EPDM	14	10
	2995	481865	481865					10	16	100	100		9	8
	4270	481000	1F					8.5	16	120	120		8	8
	4270	486265	-					4	4	-	145		14	14
	H	-	1H					4	4	-	145		14	14

# Solenoid Valves

**Fluid Temp.**

- Min. : -10℃
- Max. : Refer Table

**Ambient Temp.**

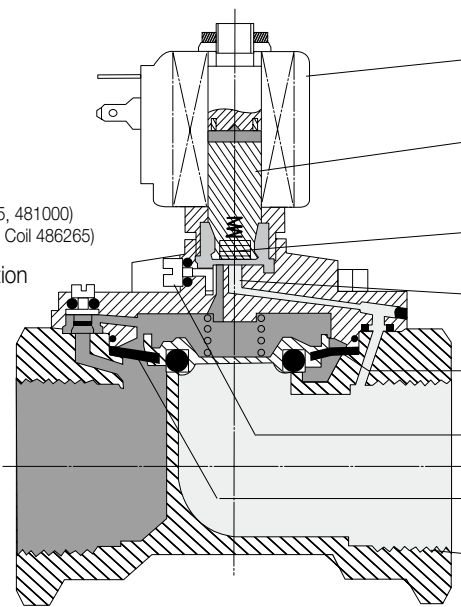
- -10℃ +50℃

**Coil Class**

- Class F (Coil 481865, 481000)
- Class H (High Temp Coil 486265)

**Power Consumption**

- 8~9W



Class F Coil or Class H Coil

High performed plunger to remain low magnetism and rise the life cycle.

Seal Assembly for prevent the impact to rise the life cycle and reduce the impact when it closed

Pilot Orifice

Diaphragm

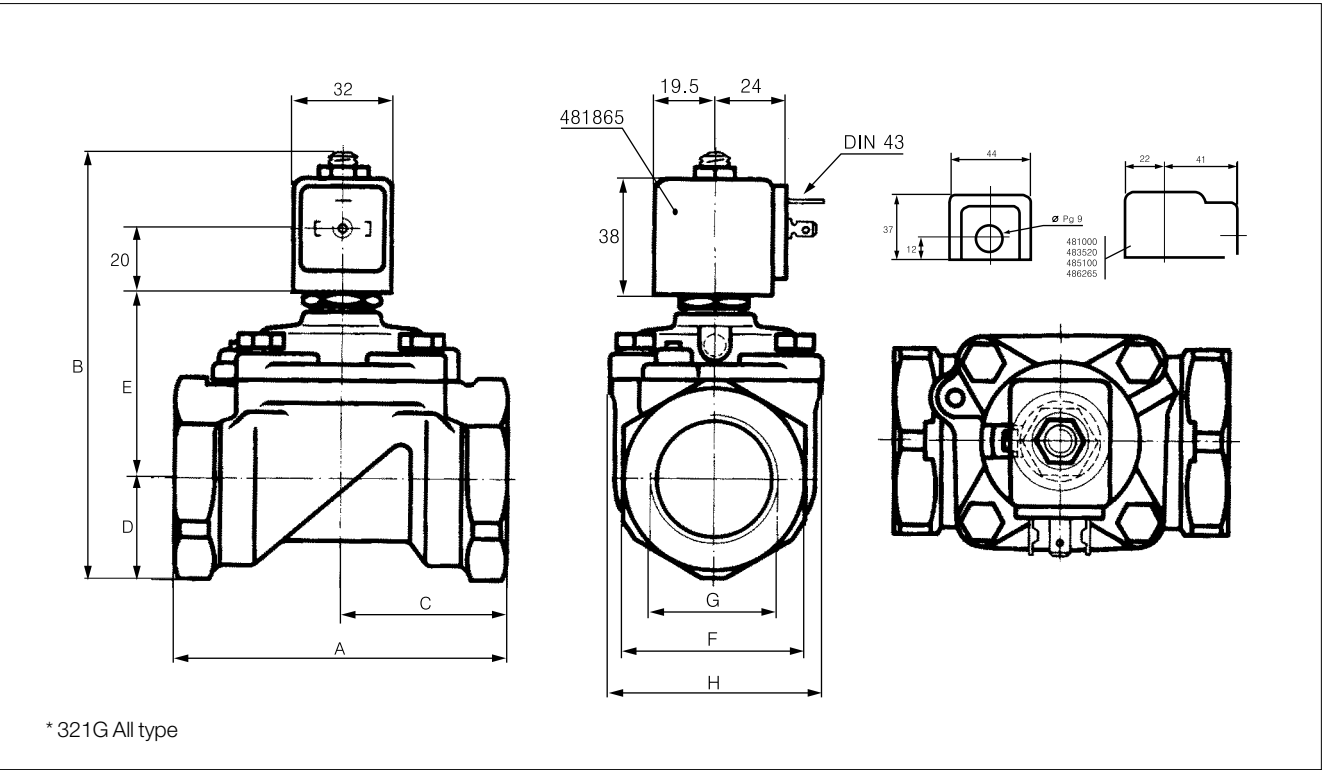
Manual Operator

Flow control device

Valve Port

Model	Dimensions							
	A	B	C	D	E	F	G	H
E321G38	110	137,5	55	33	60,5	60	32	70
E321G39	140	144	75	33	67	60	40	99
E321G40	150	158,5	80	41,5	73	75	50	99

## Dimensions(mm)



## 2/2 Way Pilot Operated

## Model : 321K Series

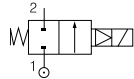


## Features

- Normally Closed , Universal
- 7000 Sleeve
- Body : Brass
- Coil : All of 7000 sleeve suitable coil available
- A minimum operating pressure is required
- Air, Water ,Inert gas, Oil applicapable
- Shunt-off applications of liquids with high flow and pressure
- Applied Seal : FKM , EPDM with Factory consult

## Application

- Fire system
- Air dryer
- Water treatment system



Normally Closed, Water, Air application

REFERENCE NO.				PORT SIZE (PF) G Thread	ORIFICE (mm)	FLOW (L/MIN) (L / min ) Liquids KV	ADMISSIBLE DIFF. PRESSURE (BAR)		MAX. FLUID TEMP.(°C)	SEAL	Power (W)			
Valve Reference no	HOUSING	COIL					Min	Max			Water	DC	AC	
		Gobal	Korea											
321K4106	I	-	1K	1/4"	12	30	0.3	12	12	100	FKM	14	10	
	2995	481865	-					12	12	100		9	8	
	4270	481000	-					12	12	100		8	8	
	H	-	1F					12	12	100		8	8	
321K4156	I	-	1K		12	30	0.3	12	12	100	FKM	14	10	
	2995	481865	-					12	12	100		9	8	
	4270	481000	-					12	12	100		8	8	
	H	-	1F					12	12	100		8	8	
321K4306	I	-	1K	3/8"		12	45	0.3	12	12	100	FKM	14	10
	2995	481865	-						12	12	100		9	8
	4270	481000	-						12	12	100		8	8
	H	-	1F						12	12	100		8	8
321K4356	I	-	1K		12	45	0.3	12	12	100	FKM	14	10	
	2995	481865	-					12	12	100		9	8	
	4270	481000	-					12	12	100		8	8	
	H	-	1F					12	12	100		8	8	
321K4506	I	-	1K	1/2"		12	50	0.3	12	12	100	FKM	14	10
	2995	481865	-						12	12	100		9	8
	4270	481000	-						12	12	100		8	8
	H	-	1F						12	12	100		8	8
321K4556	I	-	1K		12	50	0.3	12	12	100	FKM	14	10	
	2995	481865	-					12	12	100		9	8	
	4270	481000	-					12	12	100		8	8	
	H	-	1F					12	12	100		8	8	
321K4606	I	-	1K	3/4"		18	100	0.3	12	12	100	FKM	14	10
	2995	481865	-						12	12	100		9	8
	4270	481000	-						12	12	100		8	8
	H	-	1F						12	12	100		8	8
321K4656	I	-	1K		18	100	0.3	12	12	100	FKM	14	10	
	2995	481865	-					12	12	100		9	8	
	4270	481000	-					12	12	100		8	8	
	H	-	1F					12	12	100		8	8	
321K4706	I	-	1K	1"		18	110	0.3	12	12	100	FKM	14	10
	2995	481865	-						12	12	100		9	8
	4270	481000	-						12	12	100		8	8
	H	-	1F						12	12	100		8	8
321K4756	I	-	1K		18	110	0.3	12	12	100	FKM	14	10	
	2995	481865	-					12	12	100		9	8	
	4270	481000	-					12	12	100		8	8	
	H	-	1F					12	12	100		8	8	

## 2/2Way Pilot Operated

## Model : E321H Series

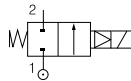


## Features

- Normally Closed
- 7000 Sleeve
- Body : Brass
- Coil : All of 7000 sleeve suitable coil available
- A minimum operating pressure is required
- Air, Water ,Inert gas, Oil applicapable
- Shunt-off applications of liquids with high flow and pressure
- Applied Seal : FKM , EPDM with Factory consult

## Application

- Oil Burner
- Blow former
- Compressor
- Industrial machine

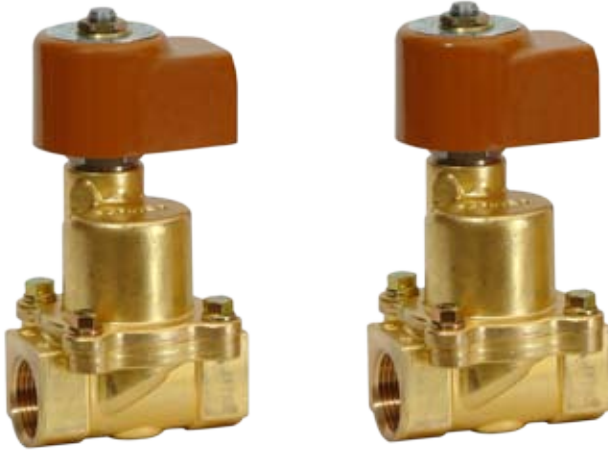


Normally Cloased

REFERENCE NO.				PORT SIZE (PF) G (Inch)	ORIFICE (mm)	FLOW (L/MIN) (L / min) Liquids KV	ADMISSIBLE DIFF. PRESSURE (BAR)			MAX. FLUID TEMP. (°C)			SEAL	Power Consumption (W)	
Valve Reference no	HOUSING	COIL					Min	Max		Gas	Liquid	Oil		DC	AC
		Gobal	Korea					DC	AC						
E321H21	I	-	1K	1/4"	8	36	0.3	30	40	-	100	100	FKM	14	10
	2995	481865	-					25	40	-	100	100		9	8
	4270	481000	-					30	40	-	100	100		8	8
	4270	486265						40	40	-	100	100		14	14
	H	-	1F					30	40	-	100	100		8	8
	H	-	1H					40	40	-	100	100		14	14
E321H11	I	-	1K	1/4"	8	36	0.3	30	40	100	75	100	NBR	14	10
	2995	481865	-					25	40	100	75	100		9	8
	4270	481000	-					30	40	100	75	100		8	8
	H	-	1F					30	40	100	75	100		8	8
E321H23	I	-	1K	3/8"	11	50	0.3	30	40	-	100	100	FKM	14	10
	2995	481865	-					25	40	-	100	100		9	8
	4270	481000	-					30	40	-	100	120		8	8
	4270	486265						40	40	-	100	140		14	14
	H	-	1F					30	40	-	100	120		8	8
	H	-	1H					40	40	-	100	140		14	14
E321H13	I	-	1K	3/8"	11	50	0.3	30	40	100	75	100	NBR	14	10
	2995	481865	-					25	40	100	75	100		9	8
	4270	481000	-					30	40	100	75	100		8	8
	H	-	1F					30	40	100	75	100		8	8
E321H25	I	-	1K	1/2"	14.5	60	0.3	30	40	-	100	100	FKM	14	10
	2995	481865	-					25	40	-	100	100		9	8
	4270	481000	-					30	40	-	100	120		8	8
	4270	486265						40	40	-	100	140		14	14
	H	-	1F					30	40	-	100	120		8	8
	H	-	1H					40	40	-	100	140		14	14
E321H15	I	-	1K	1/2"	15	60	0.3	30	40	100	75	100	NBR	14	10
	2995	481865	-					25	40	100	75	100		9	8
	4270	481000	-					30	40	100	75	100		8	8
	H	-	1F					30	40	100	75	100		8	8

## 2/2Way Pilot (Piston) Operated

## Model : 708N Series



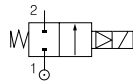
## Features

- Normally Closed
- Body : Brass
- 7000 sleeve assembled
- Coil : All of 7000 sleeve coil available
- Steam applicapable in High pressure (8bar) and temperature(180°C)
- Applied Seal : Teflon
- Body thread type : NPT, PT available with factory consult

## Applications

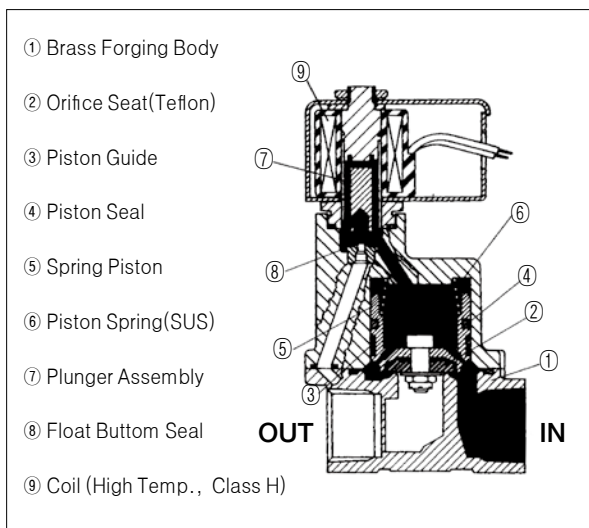
- Ironing machines
- Tanning plants
- A Sterilizer
- Food and fluid steam Press process
- A dyeing machine
- Hospital equipment
- Tobacco plants

Normally Closed

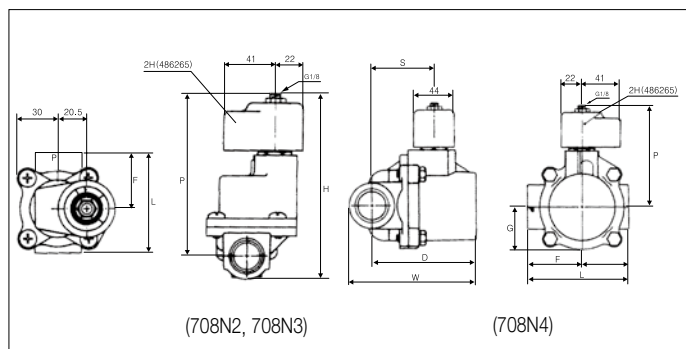


REFERENCE NO.				PORT SIZE (PF) G (INCH)	ORIFICE (mm)	FLOW (L / min) Liquids kv	ADMISSIBLE DIFF. PRESSURE (BAR)			MAX. FLUID TEMP. (°C)	SEAL	Power (W)	
VESSEL NO.	HOUSING	COIL					Min	Max				Steam	AC
		Gobal	Korea					DC	AC				
708N2	4270	486265	-	1/2	15	62	0.3	-	8	180	TEFLON	14	-
	H	-	1H-XX					-	8	180		14	-
708N3	4270	486265	-	3/4	19	79	0.3	-	8	180		14	-
	H	-	1H-XX					-	8	180		14	-
708N4	4270	486265	-	1	28	195	0.3	-	8	180		14	-
	H	-	1H-XX					-	8	180		14	-

## Cross Section Drawing



## Dimensions



Model	Dimension							
	H	P	L	F	G	S	D	W
708N2	129	115	68	36	-	-	-	-
708N3	134.5	118	70	36	-	-	-	-
708N4	-	100.5	98	54	41	59.5	93	115

## Coil Reference

Housing & Coil Part No.	7000 Sleeve	WV Series Sleeve	Power Consumption(Watt)		Coil Insulation Class	Certification	USED ON	24/50	24/60	24/50~60	42/50, 48/60	48/50	100/50, 110/60	110/50	110/50, 115/50	110/60	100/50, 115/60	110/60, 115/60
			DC	AC														
4270-481000	OK	-	8	8	F	NA	GP All	A2	B2		S7	A4			0A			6J
4270-486265		-	14	14	H	NA		A2						A5			OP	
2995-481865	OK	-	9	8	F	CE		A2	B2					A5				
I-1K	OK	-	14	10	F	UL, CE								8P				
I-1S	-	OK	6	5.5	F	UL, CE	WV121S WV131S			P0			8P					
H-WS		OK	9	8	F	NA				P0						B5		
H-1F	OK	-	8	8	F	NA	GP All (KOR Markt)	A2	B2						0A			6J
H-1H		-	14	14	H	NA		A2						A5			OP	



## Coil Reference

Housing & Coil Part No.	110/50, 120/60	115/60	200/50, 220/60	220/50	220/60	220/50, 230/50	200/50, 230/60	220/50, 240/60	220/60, 240/60	230/50	230/60	380/50	380/50, 440/60	12/DC	24/DC	48/DC	110/DC	220/DC	Housing type
4270-481000						3D			4K				5P	C1	C2	C4	C5	C7	Coil Housing with screw terminals
4270-486265				A7	B7		S2			F4		A9		C1	C2	C4			Coil Housing with screw terminals
2995-481865		K8									J3			C1	C2	C4	C5		Coils for din plug connection IP67 Lucifer coil
I-1K	P3		9P					Q3		F4				C1	C2				Molded lead wire
I-1S	P3		9P					Q3						C1	C2				Molded lead wire
H-WS					B7									C1	C2				Coil Housing
H-1F									4K					C1	C2				Coil Housing with screw terminals
H-1H				A7	B7		S2							C1	C2				Coil Housing with screw terminals

Memo


Memo





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