

2Port Small Solenoid Valve (Direct acting)



HDA 021



HDA 032

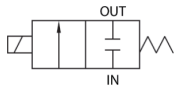


KAB21-02-02-AC110V

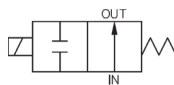


HDA 0201NO

Symbol (N.C.)



Symbol (N.O.)



Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)	
HDA021	1/8	1	Air Water Clean oil Inert gas	0~30 (0~3)	Normal close, Direct acting	0.21	
HDA031	1/8	2.5		0~7 (0~0.7)		0.22	
HDA032	1/4	2.5		0~7 (0~0.7)		0.22	
HDA031G	1/8	2.5		0~7 (0~0.7)		0.22	
HDA032G	1/4	2.5		0~7 (0~0.7)		0.22	
KAB21-02-01	1/4	1.5		Refer to the table below			0.32
KAB21-02-02	1/4	2					0.32
KAB21-02-03	1/4	3					0.32
KAB21-02-04	1/4	4					0.32
HDA0201NO	1/8	2		0~7 (0~0.7)		Normal open, Direct acting	0.25
HDA0201NO	1/4	2	0~7 (0~0.7)	Normal open, Direct acting	0.25		

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

Model	Pressure range kgf/cm ² (MPa)					
	Air		Water		Clean oil	
	AC	DC	AC	DC	AC	DC
KAB21-02-01	0~30 (0~3)	0~25 (0~2.5)	0~30 (0~3)	0~25 (0~2.5)	0~30 (0~3)	0~25 (0~2.5)
KAB21-02-02	0~15 (0~1.5)	0~15 (0~1.5)	0~15 (0~1.5)	0~15 (0~1.5)	0~7 (0~0.7)	0~7 (0~0.7)
KAB21-02-03	0~10 (0~1)	0~10 (0~1)	0~10 (0~1)	0~10 (0~1)	0~7 (0~0.7)	0~7 (0~0.7)
KAB21-02-04	0~7 (0~0.7)	0~7 (0~0.7)	0~7 (0~0.7)	0~7 (0~0.7)	0~5 (0~0.5)	0~5 (0~0.5)

How to Order



① Model

Refer to the table below

② Seal material

Symbol	Material	Use
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120 °C
SL	SILICONE	Clean water -5~60 °C
E	EPDM	Hot water 100 °C

③ Rated voltage

AC110V : AC110V 50Hz/60Hz

AC220V : AC220V 50Hz/60Hz

DC6V : DC6V

DC24V : DC24V

DC12V : DC12V

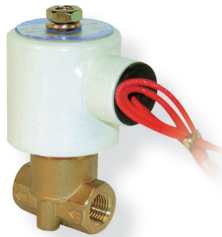
* Order made of G thread type available.
Standard : HDA021 -▶ G Thread : HDA021G

Specifications

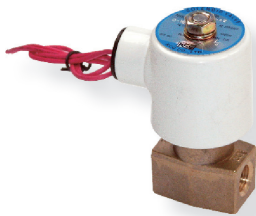
Fluid temperature	0~60 °C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50 °C (Max.)	Seal material	NBR
Coil insulation	Class B	Body material	Brass
Electrical entry	Lead wire		

* Not available in explosive atmosphere.

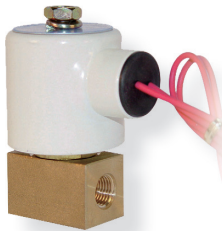
2Port Solenoid Valve (Water, Air type/N.C.)



HDW 021



HDW 042



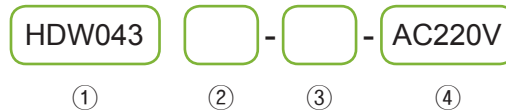
HDW 012H

Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HDW021	1/8	1.5	Water	0~30 (0~3)	Normal close, Direct acting	0.5
HDW022	1/4	1.5		0~20 (0~2)		0.5
HDW042	1/4	5	Air	0~20 (0~2)		0.5
HDW043	3/8	5	Clean oil	0~10 (0~1)		0.5
HDW012H	1/4	1		0~100 (0~1)		0.5
HDW154	1/2	15	Inert gas	0.3~10 (0.03~1)		N.C., Diaphragm type, DC only valve

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



③ Seal material

Symbol	Material	Use
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120 °C
SL	SILICONE	Clean water -5~60 °C
E	EPDM	Hot water 100 °C
T	PTFE	cal. Hot water 180 °C □ Only HDW012H is applicable.

④ Rated voltage

- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

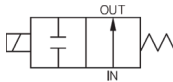
* Order made of G thread type available.
Standard : HDW021 -▶ G Thread : HDWG021

Specifications

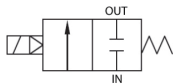
Fluid temperature	0~60 °C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50 °C (Max.)	Seal material	NBR
Coil insulation	Class B	Body material	Brass
Electrical entry	Lead wire G(PF) 1/2		

* Not available in explosive atmosphere.

Symbol

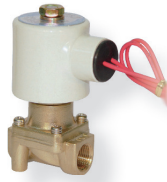


Symbol

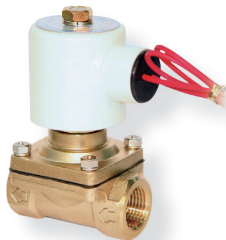


HDW154

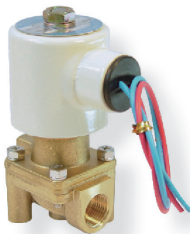
2Port Solenoid Valve
(Water, Air type/N.C.)



HPW 102
HPW 103



HPW 154



HPW 102DC



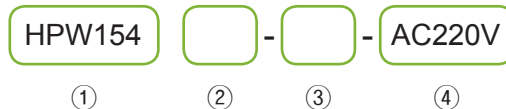
HPW 6524

Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HPW102	1/4	10	Water Air Clean oil Inert gas	0~10 (0~1) Low vacuum(option)	Diaphragm type N.C.	0.53
HPW103	3/8	10				0.53
HPW154	1/2	15				0.75
HPW206	3/4	20				1.3
HPW2510	1	25				1.3
HPW3212	1 1/4	32		0.3~10 (0.03~1)	Piston pilot type N.C., BronzeBody	2.2
HPW4014	1 1/2	40				2.47
HPW5020	2	50				3.57
HPW6524	2 1/2	65				8.3
HPW102DC	1/4	10				0.3~10(0.03~1)
HPW103DC	3/8	10	0.53			
HPW206DC	3/4	20	1.3			
HPW2510DC	1	25	1.3			

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



③ Seal material

Symbol	Material	Use
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120℃
E	EPDM	Hot water 100℃

④ Rated voltage

- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC110V-50Hz : AC110V 50Hz
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

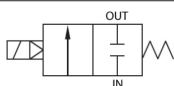
* Order made of G thread type available.
Standard : HPW102 -> G Thread : HPWG102

Specifications

Fluid temperature	0~60℃	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50℃ (Max.)	Seal material	NBR
Coil insulation	Class B	Body material	Brass Bronze : HPW6524
Electrical entry	Lead wire G(PF) 1/2		

* Not available in explosive atmosphere.

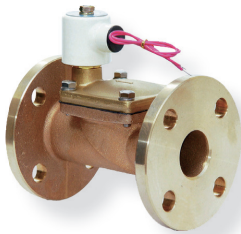
Symbol



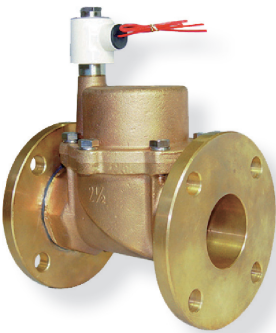
HPW3212F(O)~6524F(O) series

PROCESS VALVE

2Port Solenoid Valve
(Water, Air type)

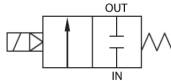


HPW 5020F



HPW 6524F

Symbol

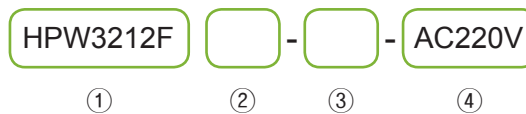


Classification

Model	Thread JIS 10K FF	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HPW2510F	1	25	Water Air Clean oil Inert gas	0.3~10 (0.03~1)	Diaphragm type, N.C.	4.4
HPW3212F	1 1/4	32				6.2
HPW4014F	1 1/2	40				6.15
HPW5020F	2	50				8.0
HPW6524F	2 1/2	65		0.5~10 (0.05~1)	Piston pilot type, N.C.	14.3
HPW3212FO	1 1/4	32		0.3~10 (0.03~1)		Diaphragm type, N.O.
HPW4014FO	1 1/2	40			6.15	
HPW5020FO	2	50			8.0	
HPW6524FO	2 1/2	65			0.5~10 (0.05~1)	

※ In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



③ Seal material

Symbol	Material	Use
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120°C
E	EPDM	Hot water 100°C

④ Rated voltage

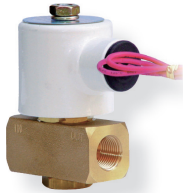
- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC110V-50Hz : AC110V 50Hz
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

Specifications

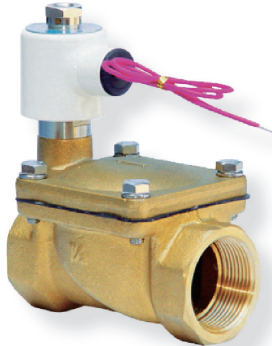
Fluid temperature	0~60°C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50°C (Max.)	Seal material	NBR
Coil insulation	Class B	Body material	Brass, Bronze Bronze : HPW6524
Electrical entry	Lead wire G(PF) 1/2		

※ Not available in explosive atmosphere.

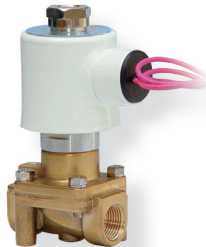
2Port Solenoid Valve
(Water, Air type/N.O.)



HPW 102NO



HPW 3212NO



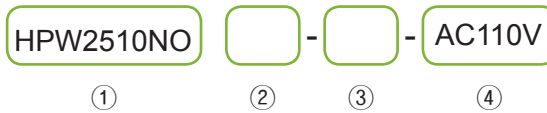
HPW 102DNO

Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HPW102NO	1/4	5	Water Air Clean oil Inert gas	0~7 (0~0.7)	Direct acting, N.O.	0.5
HPW103NO	3/8	4.5				0.6
HPW154NO	1/2	4.5				0.6
HPW206NO	3/4	20		0.3~10 (0.03~1)	Diaphragm type, N.O.	1.2
HPW2510NO	1	25				1.3
HPW3212NO	1 1/4	32				2.2
HPW4014NO	1 1/2	40				2.5
HPW5020NO	2	50		3.7		
HPW6524NO	2 1/2	65		0.5~10 (0.05~1)	Piston pilot type N.O., Bronze Body	8.3
HPW102DNO	1/4	10		0.3~10 (0.03~1)	Diaphragm type, N.O.	0.6
HPW103DNO	3/8	10	0.6			
HPW154DNO	1/2	15	0.8			

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



* Order made of G thread type available.
Standard : HPW102NO -> G Thread : HPWG102NO

③ Seal material

Symbol	Material	Use
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120°C
E	EPDM	Hot water 100°C

④ Rated voltage

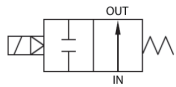
- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC110V-50Hz : AC110V 50Hz
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

Specifications

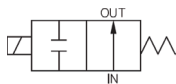
Fluid temperature	0~60°C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50°C (Max.)	Seal material	NBR
Coil insulation	Class B	Body material	Brass, Bronze Bronze : HPW6524
Electrical entry	Lead wire G(PF) 1/2		

* Not available in explosive atmosphere.

Symbol

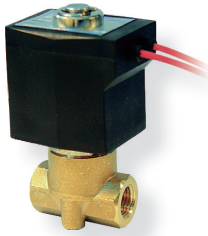


Symbol

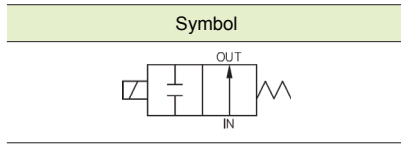


HPW102,103,154NO

2Port Solenoid Valve
(Steam, Water/N.O.)



HVD 022NO



Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HVD022NO	1/4	2	Steam Water Clean oil Inert gas	0~15 (0~1.5)	Direct acting, N.O. Mounted rectifier	0.42
HVD032NO	1/4	3		0~12 (0~1.2)		0.42
HVD042NO	1/4	4		0~9 (0~0.9)		0.42
HVD052NO	1/4	5		0~6.5(0~0.65)		0.42

※ In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order

HVD052NO



AC220V

①

②

③

① Model

Refer to the table above

② Seal material

Symbol	Material	Use
Nil	FPM	Chemical, Hot water 120 °C
E	EPDM	Hot water 100 °C
N	NBR	Water, Air, Oil

③ Rated voltage

AC110V : AC110V 50Hz/60Hz

AC220V : AC220V 50Hz/60Hz

AC24V : AC24V 50Hz/60Hz

DC12V : DC12V

DC24V : DC24V

※ Order made of G thread type available.

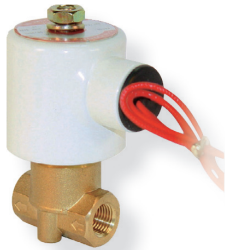
Standard : HVD022NO -> G Thread : HVDG022NO

Specifications

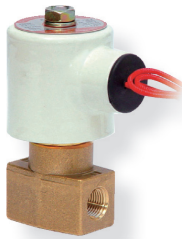
Fluid temperature	0~120 °C	Allowable voltage	±5% (DC)
Ambient temperature	40 °C (Max.)	Seal material	FPM
Coil insulation	Class B	Body material	Brass
Electrical entry	Grommet		

※ Not available in explosive atmosphere.

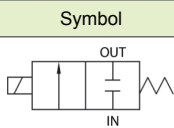
2Port Solenoid Valve
(Steam, Hot water/N.C.)



HDS 021



HDS 042



Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HDS021	1/8	1.5	Steam Hot water Clean oil Inert gas	0~10 (0~1)	Direct acting, N.C.	0.5
HDS022	1/4	1.5		0~10 (0~1)		0.5
HDS042	1/4	5		0~7 (0~0.7)		0.5
HDS043	3/8	5		0~7 (0~0.7)		0.5

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



③ Seal material

Symbol	Material	Use
Nil	FPM	Chemical, Hot water 120°C
T	PTFE	Chemical, Hot water 180°C

④ Rated voltage

- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

* Order made of G thread type available.
Standard : HDS021 -▶ G Thread : HDSG021

Specifications

Fluid temperature	0~140 °C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50 °C (Max.)	Seal material	FPM
Coil insulation	Class H	Body material	Brass
Electrical entry	Lead wire G(PF) 1/2		

* Not available in explosive atmosphere.

Process Valve

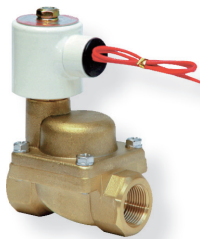
HPS102~6524 series

PROCESS VALVE

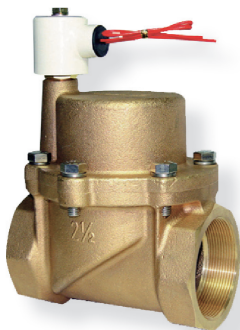
2Port Solenoid Valve
(Steam, Hot water/N.C.)



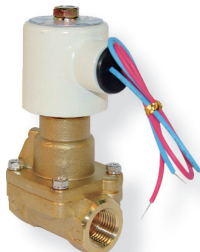
HPS 103



HPS 206



HPS 6524



HPS 103DC

Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HPS102	1/4	10	Air Steam Hot water	0.5~7 (0.05~0.7)	Piston pilot type N.C.	0.53
HPS103	3/8	10				0.53
HPS154	1/2	15				0.77
HPS206	3/4	20				1.55
HPS2510	1	25				1.57
HPS3212	1 1/4	32				2.55
HPS4014	1 1/2	40			2.75	
HPS5020	2	50			3.92	
HPS6524	2 1/2	65			Piston pilot type N.C., BronzeBody	8.3
HPS102DC	1/4	10				Piston pilot type, N.C. DC24V only valve
HPS103DC	3/8	10	0.7			
HPS154DC	1/2	15	0.9			

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



③ Rated voltage

- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC110V-50Hz : AC110V 50Hz
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

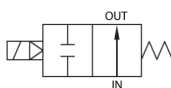
* Order made of G thread type available.
Standard : HPS102 -▶ G Thread : HPSG102

Specifications

Fluid temperature	0~180℃	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50℃ (Max.)	Seal material	PTFE + SUS 304 PISTON
Coil insulation	Class H	Body material	Brass Bronze : HPW6524
Electrical entry	Lead wire G(PF) 1/2		

* Not available in explosive atmosphere.

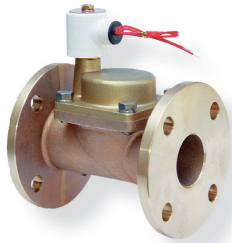
Symbol



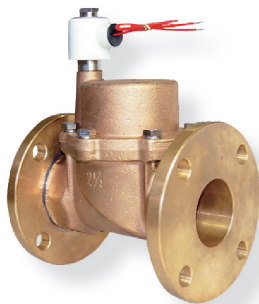
HPS2510F(O)~6524F(O) series

PROCESS VALVE

2Port Solenoid Valve
(Steam, Hot water)

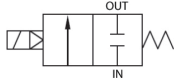


HPS 5020F



HPS 6524FO

Symbol



Classification

Model	Thread JIS 10K FF	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HPS2510F	1	25	Air Steam Hot water	0.5~7 (0.05~0.7)	Piston pilot type, N.C.	4.4
HPS3212F	1 1/4	32				6.6
HPS4014F	1 1/2	40				6.55
HPS5020F	2	50				8.5
HPS6524F	2 1/2	65				14.3
HPS3212FO	1 1/4	32				6.6
HPS4014FO	1 1/2	40				6.55
HPS5020FO	2	50				8.5
HPS6524FO	2 1/2	65				14.3

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



③ Rated voltage

- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC110V-50Hz : AC110V 50Hz
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

Specifications

Fluid temperature	0~180 °C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50 °C (Max.)	Seal material	PTFE + SUS 304 PISTON
Coil insulation	Class H	BodyMaterial	Brass, Bronze Bronze : HPW6524
Electrical entry	Lead wire G(PF) 1/2		

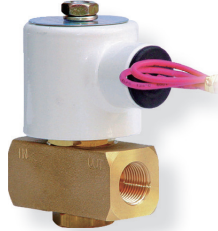
* Not available in explosive atmosphere.

Process Valve

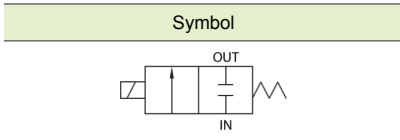
HVS102NO, 103NO, 154NO series

PROCESS VALVE

2Port Solenoid Valve
(Steam, Hot water/N.O.)



HVS 102NO



Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kg/cm ² (MPa)	Feature	Weight (Kg)
HVS102NO	1/4	5	Steam Hot water Clean oil Inert gas	0~5(0~0.5)	Direct acting, N.O.	0.75
HVS103NO	3/8	4.5				
HVS154NO	1/2	4.5				

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order

HVS102NO

①

- AC220V

②

③

① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



③ Rated voltage

- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

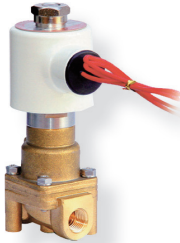
* Order made of G thread type available.
Standard : HVS102NO -> G Thread : HVS^G102NO

Specifications

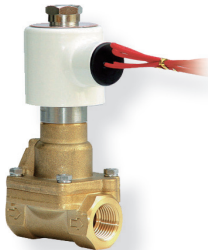
Fluid temperature	0~140 °C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50 °C (Max.)	Seal material	FPM
Coil insulation	Class B	Body material	Brass
Electrical entry	Lead wire G(PF) 1/2		

* Not available in explosive atmosphere.

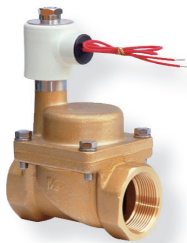
2Port Solenoid Valve
(Steam, Hot water/N.O.)



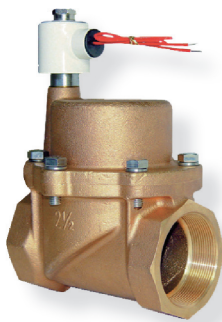
HPS 102NO



HPS 154NO



HPS 3212NO



HPS 6524NO

Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HPS102NO	1/4	10	Air Steam Hot water	0.5~7 (0.05~0.7)	Piston pilot type, N.O.	0.7
HPS103NO	3/8	10				0.7
HPS154NO	1/2	15				0.9
HPS206NO	3/4	20				1.55
HPS2510NO	1	25				1.57
HPS3212NO	1 1/4	32				2.55
HPS4014NO	1 1/2	40				2.75
HPS5020NO	2	50				3.92
HPS6524NO	2 1/2	65	8.3			

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order

HPS2510NO - AC220V

① ② ③

① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



③ Rated voltage

- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

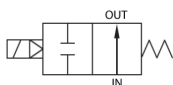
* Order made of G thread type available.
Standard : HPS102NO -> G Thread : HPSG102NO

Specifications

Fluid temperature	0~180℃	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50℃ (Max.)	Seal material	PTFE + SUS 304 PISTON
Coil insulation	Class H	Body material	Brass Bronze : HPS6524
Electrical entry	Lead wire G(PF) 1/2		

* Not available in explosive atmosphere.

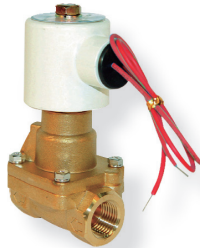
Symbol



HPW102-20~5020-20 series

PROCESS VALVE

2Port High Pressure Solenoid Valve
(Water, Air type/N.C.)



HPW 102

Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HPW102-20	1/4	10	Water Air Clean oil Inert gas	0.5~20(0.05~2)	Piston pilot type N.C.	0.7
HPW103-20	3/8	10				0.7
HPW154-20	1/2	15				0.9
HPW206-20	3/4	20				1.55
HPW2510-20	1	25				1.57
HPW3212-20	1 1/4	32				2.55
HPW4014-20	1 1/2	40				2.75
HPW5020-20	2	50				3.92

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order

HPW154-20



AC220V

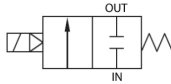
①

②

③

④

Symbol



① Model

Refer to the table above

② Electrical entry

Nil : Console box type coil (Standard)

G : Grommet type coil

T : Terminal box type coil

D : Din coil + Din connector

Z : Din coil + Din connector lamp



③ Seal material

Symbol	Material	Use
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120°C
E	EPDM	Hot water 100°C

④ Rated voltage

AC110V : AC110V 50Hz/60Hz

AC220V : AC220V 50Hz/60Hz

DC12V : DC12V

DC24V : DC24V

AC110V-50Hz : AC110V 50Hz

AC220V-50Hz : AC220V 50Hz

AC240V-50Hz : AC240V 50Hz

AC24V-50Hz : AC24V 50Hz

* Order made of G thread type available.

Standard : HPW102-20 -> G Thread : HPWG102-20

Specifications

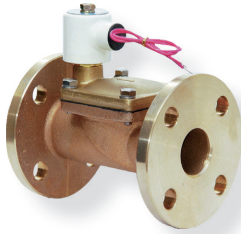
Fluid temperature	0~60°C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50°C (Max.)	Seal material	NBR + SUS 304 PISTON
Coil insulation	Class B	Body material	Brass
Electrical entry	Lead wire G(PF) 1/2		

* Not available in explosive atmosphere.

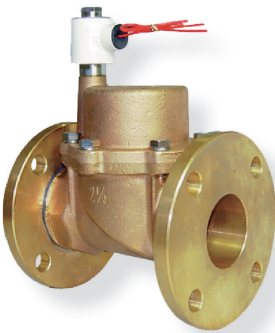
HPW3212F-20~5020F-20 series

PROCESS VALVE

2Port High Pressure Solenoid Valve
(Water, Air type/N.C.)



HPW 5020F-20



HPW 6524F-20

Classification

Model	Thread JIS 10K FF	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HPW3212F-20	1 1/4	32	Air, Water Clean oil Inert gas	0.5~20 (0.05~2)	Piston pilot type, N.C.	6.6
HPW4014F-20	1 1/2	40				6.55
HPW5020F-20	2	50				8.5

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



③ Seal material

Symbol	Material	Use
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120℃
E	EPDM	Hot water 100℃

④ Rated voltage

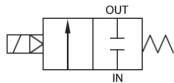
- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC110V-50Hz : AC110V 50Hz
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

Specifications

Fluid temperature	0~60℃	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50℃ (Max.)	Seal material	NBR + SUS 304 PISTON
Coil insulation	Class B	BodyMaterial	Brass, Bronze
Electrical entry	Lead wire G(PF) 1/2		

* Not available in explosive atmosphere.

Symbol

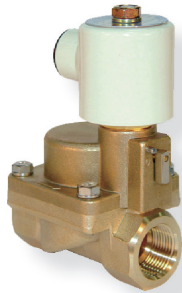


Process Valve

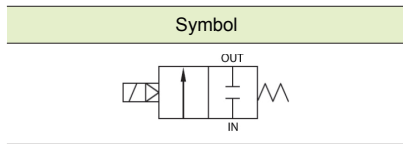
HPM206-20~5020-20 series

PROCESS VALVE

2Port High Pressure Solenoid Valve
(Water, Air type/N.C.)



HPM206-20

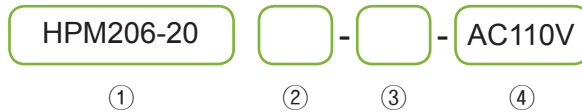


Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HPM206-20	3/4	20	Air, Water Clean oil Inert gas	0.5~20(0.05~2)	Manual lever N.C.	1.55
HPM2510-20	1	25				1.57
HPM3212-20	1 1/4	32				2.55
HPM4014-20	1 1/2	40				2.75
HPM5020-20	2	50				3.92

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



* Order made of G thread type available.
Standard : HPM206 -▶ G Thread : HPMG206

③ Seal material

Symbol	Material	Use
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120°C
E	EPDM	Hot water 100°C

④ Rated voltage

- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC110V-50Hz : AC110V 50Hz
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

Specifications

Fluid temperature	0~60°C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50°C (Max.)	Seal material	NBR + SUS 304 PISTON
Coil insulation	Class B	Body material	Brass
Electrical entry	Lead wire G(PF) 1/2		

* Not available in explosive atmosphere.

2Port Solenoid Valve

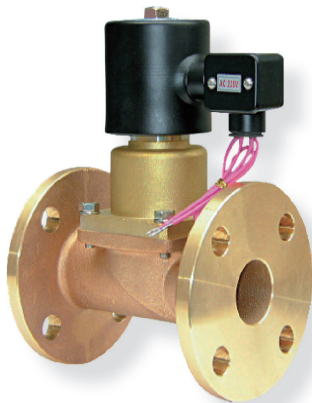
(Water, Air type/Piston Pilot Kick Type-Direct Acting)



HKW 154B



HKW 154S



HKW 3212F

Classification

Model	Thread Rc(PT), G JIS 10K FF	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature
HKW154	1/2	15	Water Air Clean oil Inert gas	AC 0~10 (0~1) DC 0~7(0~0.7)	Piston pilot kick type - Direct acting Zero differential pressure operating (Vacuum) Horizontal piping (below 30°) installation
HKW206	3/4	20			
HKW2510	1	25			
HKW3212	1 1/4	32			
HKW4014	1 1/2	40			
HKW5020	2	50			

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

② Body material

B : Brass
S : Stainless steel
(Body SUS 316, Trim SUS 304)

③ Connection type

Nil : Screw type
F : Flange type JIS 10K FF
(Available for type of orifice overØ25)

④ Initial status

Nil : N.C. (Standard)
NO : N.O. (Screw type symbol)
O : N.O. (Flange type symbol)

⑤ Seal material

Symbol	Material	Use
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120°C
E	EPDM	Hot water 100°C

⑥ Rated voltage

AC110V : AC110V 50Hz/60Hz
AC220V : AC220V 50Hz/60Hz
DC24V : DC24V

* Order made of G thread type available.
Standard : HKW154 -► G Thread : HKWG154

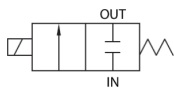
Specifications

Fluid temperature	0~60°C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50°C (Max.)	Seal material	NBR
Coil insulation	Class B	Body material	HKW-B : Brass HKW-S : Stainless steel (Body : SUS 316, Trim : SUS304)
Electrical entry	Lead wire G(PF) 1/2		

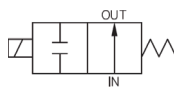
* Not available in explosive atmosphere.

Model	Weight(Kg)	Model	Weight(Kg)
HKW154B(NO)	1.73	HKW154S(NO)	1.66
HKW206B(NO)	2.34	HKW206S(NO)	2.1
HKW2510B(NO)	2.34	HKW2510S(NO)	2.24
HKW3212B(NO)	4.16	HKW3212S(NO)	4.2
HKW4014B(NO)	4.36	HKW4014S(NO)	4.3
HKW5020B(NO)	5.30	HKW5020S(NO)	5.6
HKW2510BF(O)	5.8	HKW2510SF(O)	5.8
HKW3212BF(O)	7.7	HKW3212SF(O)	7.4
HKW4014BF(O)	7.86	HKW4014SF(O)	7.46
HKW5020BF(O)	9.7	HKW5020SF(O)	9.34

Symbol (N.C.)



Symbol (N.O.)



2Port Solenoid Valve

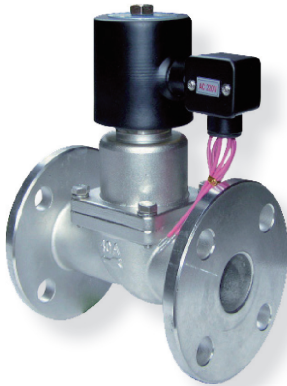
(Steam, Hot water/Piston Pilot Kick Type-Direct acting)



HKS 154S



HKS 3212S



HKS 3212SF

Classification

Model	Thread Rc(PT), G JIS 10K FF	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature
HKS154	1/2	15	Air Steam Hot water	0~7(0~0.7)	Piston pilot kick type - Direct acting Operation(vacuum) of differential pressure 0kgf/cm ² Horizontal piping (below 30°) installation
HKS206	3/4	20			
HKS2510	1	25			
HKS3212	1 1/4	32			
HKS4014	1 1/2	40			
HKS5020	2	50			

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

② Body material

B : Brass
S : Stainless steel
(Body: SUS 316, Trim: SUS 304)

③ Connection type

Nil : Screw type
F : Flange type JIS 10K FF
(Available for type of orifice over Ø32)

④ Initial status

Nil : N.C. (Standard)
NO : N.O. (Screw type symbol)
O : N.O. (Flange type symbol)

⑤ Seal material

Symbol	Material	Use
Nil	PTFE	Chemical, Hot water 150°C (Standard)
M	FPM	Chemical, Hot water 120°C
E	EPDM	Hot water 100°C

⑥ Rated voltage

AC110V : AC110V 50Hz/60Hz
AC220V : AC220V 50Hz/60Hz
DC24V : DC24V

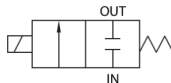
* Order made of G thread type available.
Standard : HKS154 -▶ G Thread : HKS**G**154

Specifications

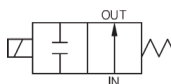
Fluid temperature	0~150°C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50°C (Max.)	Seal material	PTFE + PISTON
Coil insulation	Class H	Body material	HKW-B : Brass HKW-S : Stainless steel (Body : SUS 316, Trim : SUS304)
Electrical entry	Lead wire G(PF) 1/2		

* Not available in explosive atmosphere.

Symbol (N.C.)



Symbol (N.O.)



Model	Weight(Kg)	Model	Weight(Kg)
HKS154B(NO)	1.72	HKS154S(NO)	1.66
HKS206B(NO)	2.34	HKS206S(NO)	2.1
HKS2510B(NO)	2.34	HKS2510S(NO)	2.24
HKS3212B(NO)	4.16	HKS3212S(NO)	4.2
HKS4014B(NO)	4.36	HKS4014S(NO)	4.3
HKS5020B(NO)	5.30	HKS5020S(NO)	5.6
HKS3212BF(O)	7.7	HKS3212SF(O)	7.4
HKS4014BF(O)	7.86	HKS4014SF(O)	7.46
HKS5020BF(O)	9.7	HKS5020SF(O)	9.34

HDA021S, 032S series

PROCESS VALVE

2, 3Port SUS Solenoid Valve
(Water, Air type/N.C.)

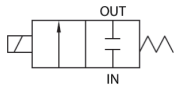


HDA 021S

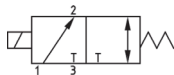


HDA 021S-3

Symbol (2 Port)



Symbol (3 Port)



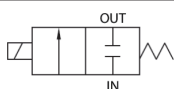
HDC042 series

2Port SUS Solenoid Valve
(Chemical Type)



HDC 042

Symbol



Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HDA021S	1/8	1.6	Air	0~10 (0~1)	2Port, Normal close, Direct acting	0.16
HDA032S	1/4	2.5	Water	0~7 (0~0.7)	Stainless steel Body	0.22
HDA021S-3	1/8	1.6	Clean oil	0~10 (0~1)	3Port, Normal close, Direct acting	0.23
HDA032S-3	1/4	2.5	Inert gas	0~7 (0~0.7)	Stainless steel Body	0.31

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



①

②

③

① Model

Refer to the table above

② Seal material

Symbol	Material	Use
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120°C
SL	SILICONE	Clean water -5~60°C
E	EPDM	Hot water 100°C

③ Rated voltage

AC110V : AC110V 50Hz/60Hz

AC220V : AC220V 50Hz/60Hz

DC24V : DC24V

DC12V : DC12V

* Order made of G thread type available.

Standard : HDA021S -▶ G Thread : HDA021S

Specifications

Fluid temperature	0~60°C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50°C (Max.)	Seal material	NBR
Coil insulation	Class B	Body material	Stainless steel
Electrical entry	Lead wire		

* Not available in explosive atmosphere.

Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HDC042	1/4	4	Chemical	0~2.5(0~0.25)	With structure that prevents fluid flow into operating part	0.5

How to Order



①

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① Model

Refer to the table above

② Electrical entry

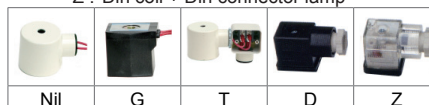
Nil : Console box type coil (Standard)

G : Grommet type coil

T : Terminal box type coil

D : Din coil + Din connector

Z : Din coil + Din connector lamp



③ Seal material

Symbol	Material	Use
Nil	PTFE	Chemical, Hot water(Standard)
M	FPM	Chemical, Hot water 120°C

④ Rated voltage

AC110V : AC110V 50Hz/60Hz

AC220V : AC220V 50Hz/60Hz

DC12V : DC12V

DC24V : DC24V

AC220V-50Hz : AC220V 50Hz

AC240V-50Hz : AC240V 50Hz

AC24V-50Hz : AC24V 50Hz

Specifications

Fluid temperature	0~50°C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50°C (Max.)	Seal material	PTFE + DIAPHRAGM
Coil insulation	Class B	Body material	Stainless steel
Electrical entry	Lead wire G(PF) 1/2		

* Order made of G thread type available.

Standard : HDC042 -▶ G Thread : HDC042

* Not available in explosive atmosphere.

Process Valve

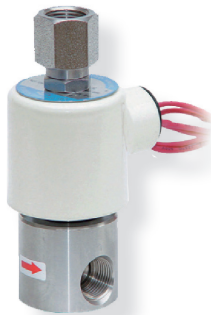
HDW032S, 033S series

PROCESS VALVE

2, 3Port SUS Solenoid Valve
(Water, Air type/N.C.)

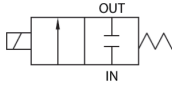


HDW 032S

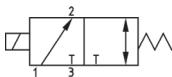


HDW 032S-3

Symbol (2 Port)



Symbol (3 Port)



Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HDW032S	1/4	2.5	Air	AC 0~20(0~2)	2 Port, Normal close, Direct acting Stainless steel Body	0.5
HDW033S	3/8		Water	DC 0~10 (0~1)		0.5
HDW032S-3	1/4		Clean oil	0~7 (0~0.7)	3 Port, Normal close, Direct acting Stainless steel Body	0.51
HDW033S-3	3/8		Inert gas			0.51

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



③ Seal material

Symbol	Material	Note
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120°C
E	EPDM	Hot water 100°C

④ Rated voltage

- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

* Order made of G thread type available.
Standard : HDW032S -> G Thread : HDWG032S

Specifications

Fluid temperature	0~60°C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50°C (Max.)	Seal material	NBR
Coil insulation	Class B	Body material	Stainless steel
Electrical entry	Lead wire G(PF) 1/2		

* Not available in explosive atmosphere.

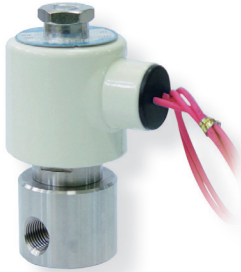
HVS042(NO),043(NO) series

PROCESS VALVE

2Port SUS Solenoid Valve
(Water, Air type)

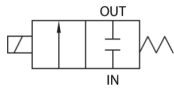


HVS 043

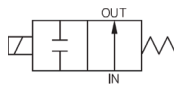


HVS 042NO

Symbol (N.C.)



Symbol (N.O.)



Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HVS042	1/4	5	Air Water Clean oil Inert gas	AC 0~10(0~1) DC 0~7(0~0.7)	Direct acting, N.C. Stainless steel Body	0.6
HVS043	3/8	5		0.6		
HVS042NO	1/4	5	Air Water Clean oil Inert gas	0~0.4(0~0.04)	Direct acting, N.O. Stainless steel Body	0.6
HVS043NO	3/8	5				0.6

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



* Order made of G thread type available.
Standard : HVS042 -> G Thread : HVS**G**042

③ Seal material

Symbol	Material	Note
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120°C
E	EPDM	Hot water 100°C
T	PTFE	Chemical, Hot water 180°C

④ Rated voltage

- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC110V-50Hz : AC110V 50Hz
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

Specifications

Fluid temperature	0~60°C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50°C (Max.)	Seal material	NBR
Coil insulation	Class B	Body material	Stainless steel
Electrical entry	Lead wire G(PF) 1/2		

* Not available in explosive atmosphere.

Process Valve

HSR053S, 063S series

PROCESS VALVE

2Port Cryogenic Solenoid Valve
(Oxygen, Nitrogen, Refrigerant)

Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HSR053S	3/8	5	R-12, R-22, R502, Argon, Oxygen, Nitrogen, Refrigerant	0~5(0~0.5)	Cryogenic solenoid valve	0.55
HSR063S	3/8	6				



HSR 053S

How to Order

HSR053S

- AC220V

①

②

① Model

Refer to the table above

* Order made of G thread type available.

Standard : HSR053S -> G Thread : HSRG053S

② Rated voltage

AC110V : AC110V 50Hz/60Hz

AC220V : AC220V 50Hz/60Hz

AC220V-50Hz : AC220V 50Hz

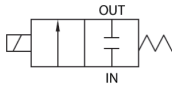
AC240V-50Hz : AC240V 50Hz

AC24V-50Hz : AC24V 50Hz

Specifications

Fluid temperature	-190~50℃	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50℃ (Max.)	Seal material	PTFE
Coil insulation	Class B	Body material	Stainless steel
Electrical entry	Connector type		

Symbol(N.C.)

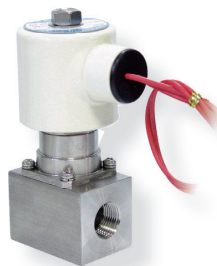


HSR102P, 103P, 104P series

2Port Low Temperature Solenoid Valve
(Refrigerant, Air, Water, Gas)

Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HSR102P	1/4	10.2	Refrigerant Air, Water Gas	AC 0~10(0~1) DC 0~7(0~0.7)	Piston pilot kick type - Direct acting N.C. Low temperature Valve	0.8
HSR103P	3/8					
HSR104P	1/2					



HSR 102P

How to Order

HSR103P

-

- AC220V

①

②

③

④

① Model

Refer to the table above

② Electrical entry

Nil : Console box type coil (Standard)

G : Grommet type coil

T : Terminal box type coil

D : Din coil + Din connector

Z : Din coil + Din connector lamp



③ Seal material

Symbol	Material	Note
Nil	PTFE	Chemical, Hot water(Standard)
N	NBR	Water, Air, Oil
M	FPM	Chemical, Hot water 120℃
E	EPDM	Hot water 100℃

④ Rated voltage

AC110V : AC110V 50Hz/60Hz

AC220V : AC220V 50Hz/60Hz

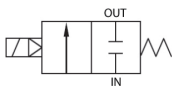
DC12V : DC12V

DC24V : DC24V

* Order made of G thread type available.

Standard : HSR102P -> G Thread : HSRG102P

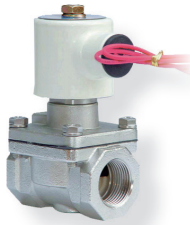
Symbol(N.C.)



Specifications

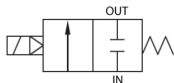
Fluid temperature	-20~120℃	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50℃ (Max.)	Seal material	PTFE
Coil insulation	Class B	Body material	Stainless steel
Electrical entry	Lead wire G(PF) 1/2		

2Port SUS Solenoid Valve
(Water, Air type/N.C.)



HPW 103S

Symbol



Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HPW103S	3/8	10	Air Water Clean oil Inert gas	AC 0~10(0~1) DC 0~7(0~0.7)	Diaphragm type, N.C. Stainless steel Body	0.85
HPW154S	1/2	10				0.82
HPW206S	3/4	20				1.03
HPW2510S	1	20				0.93

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order

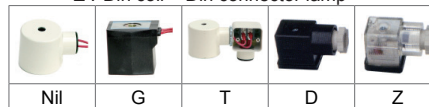


① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



③ Seal material

Symbol	Material	Note
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120℃
E	EPDM	Hot water 100℃

④ Rated voltage

- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

* Order made of G thread type available.
Standard : HPW103S -> G Thread : HPWG103S

Specifications

Fluid temperature	0~60℃	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50℃ (Max.)	Seal material	NBR
Coil insulation	Class B	Body material	Body : SUS316, Trim : SUS304
Electrical entry	Lead wire G(PF) 1/2		

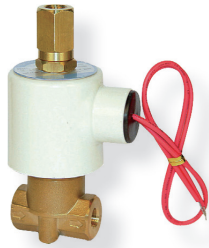
* Not available in explosive atmosphere.

Process Valve

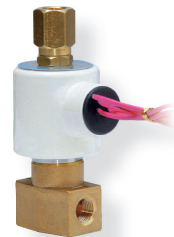
HDW011-3 ~ 052-3 series

PROCESS VALVE

3Port Solenoid Valve
(Water, Air type/Direct acting)



HDW011B-3



HDW022B-3



HDW 022T-3



HDW052-3

Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HDW011B-3	1/8	1.5	Air	0~10(0~1)	3Port, Direct acting	0.26
HDW012B-3	1/4	1.5				
HDW022B-3	1/4	2	Water	0~7(0~0.7)		
HDW023B-3	3/8	2	Clean oil			
HDW022T-3	1/4	2.5	Inert gas	0~10(0~1) Option 0~10(0~1.5)	FPM seal, 3Port, Direct acting	
HDW052-3	1/4	4.5		AC 0~10(0~1) DC 0~7(0~0.7)	3Port, Direct acting 3 Way directional control	0.63

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

② Electrical entry

- Nil : Console box type coil (Standard)
- G : Grommet type coil
- T : Terminal box type coil
- D : Din coil + Din connector
- Z : Din coil + Din connector lamp



③ Seal material

Symbol	Material	Note
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120°C
E	EPDM	Hot water 100°C

④ Rated voltage

- AC110V : AC110V 50Hz/60Hz
- AC220V : AC220V 50Hz/60Hz
- DC12V : DC12V
- DC24V : DC24V
- AC220V-50Hz : AC220V 50Hz
- AC240V-50Hz : AC240V 50Hz
- AC24V-50Hz : AC24V 50Hz

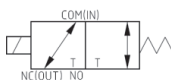
* Order made of G thread type available.
Standard : HDW011B-3 -> G Thread : HDWG011B-3

Specifications

Fluid temperature	0~60°C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50°C (Max.)	Seal material	NBR FPM(HDW022T-3)
Coil insulation	Class B	Body material	Brass
Electrical entry	Lead wire G(PF) 1/2		

* Not available in explosive atmosphere.

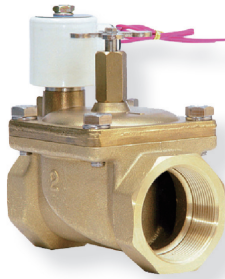
Symbol (HDW011B-3 ~ HDW023B-3)



Symbol (HDW022T-3, HDW052-3)

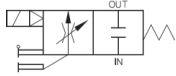


Special Solenoid Valve



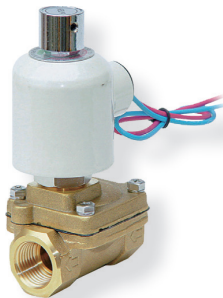
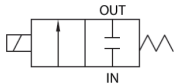
HPW 5020-C

Symbol



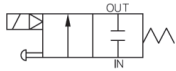
HVV12FL

Symbol



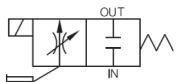
HDW 154B

Symbol



SV 1430

Symbol



Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HPW5020-C	2	50	Air, Water Clean Air Inert gas	0.3~10(0.03~1)	Diaphragm type, Flow rate adjustment by manual lever OPEN - CLOSE (Manually)	3.7
HVV12FL	Ø48 Flange	12	Air	-1~1(-0.1~0.1)	Direct acting, N.C. Stainless steel Body Vacuum type, allow vertical piping and horizontal piping.	1.12
HDW154B	1/2	15	Air, Water	0.3~10(0.03~1)	Diaphragm type, Spring cooler for damage prevention.	0.81
SV1430	1/4	14	Air, Water Clean Air Inert gas	0~7(0~0.7)	2 Port manual control solenoid valve Steam iron	0.45

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

Specifications

Classification	HPW5020-C		HVV12FL	
	Standard	Option	Standard	Option
Fluid temperature	0~60℃	EPDM, FPM	0~50℃	EPDM
Ambient temperature	50℃ (Max.)		50℃ (Max.)	
Coil insulation	Class B		Class B	
Electrical entry	Lead wire G(PF) 1/2	Grommet, Terminal box, Din connector	Lead wire G(PF) 1/2	
Rated voltage	AC100V 50/60Hz AC110V 60Hz AC200V 50/60Hz AC220V 60Hz DC24V, DC12V	AC220V 50Hz AC240V 50Hz AC24V 50Hz	AC110V 60Hz AC220V 60Hz DC24V	AC240V 50Hz DC12V
Voltage allow	±10% (AC), ±5% (DC)		±5% (AC), ±5% (DC)	
BodyMaterial	Brass		SUS 316	
Seal material	NBR	EPDM, FPM	NBR	EPDM

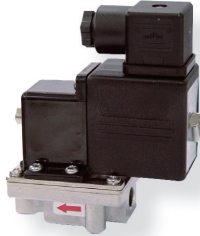
* Not available in explosive atmosphere.

Classification	HDW154B		SV1430	
	Standard	Option	Standard	Option
Fluid temperature	0~60℃		0~150℃	
Ambient temperature	50℃ (Max.)		50℃ (Max.)	
Coil insulation	Class B		Class H	
Electrical entry	Lead wire G(PF) 1/2		Lead wire G(PF) 1/2	
Rated voltage	DC12V, DC24V		AC100V 50/60Hz AC110V 60Hz AC200V 50/60Hz AC220V 60Hz	AC220V 50Hz AC240V 50Hz AC24V 50Hz
Voltage allow	±5% (DC)		±5% (AC), ±5% (DC)	
BodyMaterial	Brass		SUS 316	
Seal material	NBR + DIAPHRAGM		FPM	

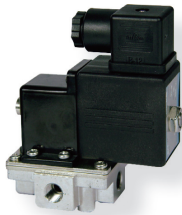
* Not available in explosive atmosphere.

Process Valve

2,3Port Special Solenoid Valve (Chemical Type/Direct acting)



HCV 201



HCV 201-3

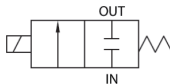
Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HCV201	1/8	2	Chemical	IN->OUT 12(1.2) OUT->IN 8(0.8)	2port, FPM seal, Direct acting N.C., Manual button	0.6
HCV301		3		IN->OUT 7(0.7) OUT->IN 5(0.5)		
HCV401		4		IN->OUT 5(0.5) OUT->IN 3(0.3)		
HCV202	1/4	2	Hot air	IN->OUT 12(1.2) OUT->IN 8(0.8)	N.O., Manual button	
HCV302		3		IN->OUT 7(0.7) OUT->IN 5(0.5)		
HCV402		4		IN->OUT 5(0.5) OUT->IN 3(0.3)		
HCV201-NO	1/8	2	Neutral gas	IN->OUT 12(1.2) OUT->IN 8(0.8)	2port, FPM seal, Direct acting N.O., Manual button	
HCV301-NO		3		IN->OUT 7(0.7) OUT->IN 5(0.5)		
HCV401-NO		4		IN->OUT 5(0.5) OUT->IN 3(0.3)		
HCV202-NO	1/4	2	Hot oil	IN->OUT 12(1.2) OUT->IN 8(0.8)	N.O., Manual button	
HCV302-NO		3		IN->OUT 7(0.7) OUT->IN 5(0.5)		
HCV402-NO		4		IN->OUT 5(0.5) OUT->IN 3(0.3)		
HCV201-3	1/8	2	Chemical	IN->OUT 12(1.2) OUT->IN 8(0.8)	3port, FPM seal, Direct acting Manual button	
HCV301-3		3		IN->OUT 7(0.7) OUT->IN 5(0.5)		
HCV401-3		4		IN->OUT 5(0.5) OUT->IN 3(0.3)		
HCV202-3	1/4	2	Hot air	IN->OUT 12(1.2) OUT->IN 8(0.8)	Manual button	
HCV302-3		3		IN->OUT 7(0.7) OUT->IN 5(0.5)		
HCV402-3		4		IN->OUT 5(0.5) OUT->IN 3(0.3)		

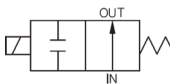
* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order

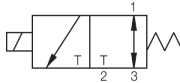
Symbol (N.C.)



Symbol (N.O.)



Symbol (3Port)



HCV402

- AC220V

①

②

① Model

Refer to the table above

* Order made of G thread type available.
Standard : HCV021 -> G Thread : HCVG021

② Rated voltage

AC110V : AC110V 50Hz/60Hz

AC220V : AC220V 50Hz/60Hz

DC12V : DC12V

DC24V : DC24V

Specifications

Fluid temperature	-10~80°C	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50°C (Max.)	Seal material	FPM
Coil insulation	Class B, H	Body material	SUS 316
Electrical entry	Diin connector		

* Not available in explosive atmosphere.

2,3Port Teflon Solenoid Valve (Chemical Type/Direct Acting)



HTV 0201-C



HTV 04L2-C
HTV 09L4-C



HTV 0301-3

Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)	
HTV0201-C	1/8	2	Chemical O3 Purity Clean water	3(0.3)	Direct acting, N.C. Teflon body, seat	0.35	
HTV0301-C		3		2.5(0.25)			
HTV0402-C		4		1.5(0.15)			
HTV0502-C	1/4	5		1.0(0.1)	Direct acting, N.O. Teflon body, seat		
HTV0201-O		2		3(0.3)			
HTV0301-O		3		2.5(0.25)			
HTV0402-O	1/4	4		1.5(0.15)	0~3(0~0.3)		Direct acting, N.C. Teflon body, seat
HTV0502-O		5		1.0(0.1)			
HTV04L2-C		4		COM → NC 1.5kgf/cm ² NC → NO NO NO → COM 0.5kgf/cm ²			
HTV05L3-C	3/8	5	Direct acting, 3Port Teflon body, seat		0.5		
HTV09L3-C		9			0.5		
HTV09L4-C	1/2	9			1.8		
HTV0301-3		1/8		3	1.8		

How to Order

HTV0402-C

AC220V

①

②

① Model

Refer to the table above

* Order made of G thread type available.

Standard : HTV0201-C -> G Thread : HCTVG0201-C

② Rated voltage

AC110V : AC110V 50Hz/60Hz

AC220V : AC220V 50Hz/60Hz

DC12V : DC12V

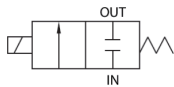
DC24V : DC24V

Specifications

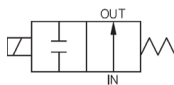
Fluid temperature	0~60℃	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50℃ (Max.) 40℃ (Max.) : HTV0301-3	Seal material	NBR + Teflon COATING
Coil insulation	Class B	Body material	Teflon
Electrical entry	Lead wire		

* Not available in explosive atmosphere.

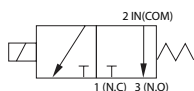
Symbol (N.C.)



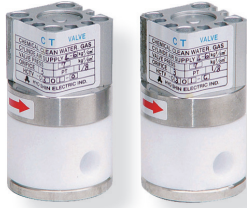
Symbol (N.O.)



Symbol (3Port)



2, 3Port Teflon Cylinder Valve (Chemical Type)



HCTV 0201-C



HCTV 0201-3

Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Cylinder pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)			
HCTV0201-C	1/8	2	Chemical O3 Purity Clean water	0~5(0~0.5)	4~6(0.4~0.6)	Pneumatic valve Teflon body, seat	0.22			
HCTV0301-C		3								
HCTV0402-C	1/4	4								
HCTV0502-C		5								
HCTV0903-C	3/8	9								
HCTV0904-C	1/2	9								
HCTV0201-O	1/8	2					0~6(0~0.6)	5~7(0.5~0.7)	Pneumatic valve, 3port Teflon body, seat	0.77
HCTV0301-O		3								
HCTV0402-O	1/4	4								
HCTV0502-O		5								
HCTV0903-O	3/8	9								
HCTV0904-O	1/2	9								
HCTV0201-3	1/8	2	0~6(0~0.6)	5~7(0.5~0.7)	Pneumatic valve, 3port Teflon body, seat	0.25				
HCTV0301-3	3									
HCTV0402-3	1/4	4								
HCTV0502-3		5								

How to Order

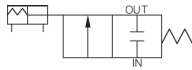
HCTV0402-C

①

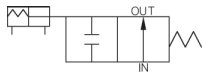
① Model
Refer to the table above

* Order made of G thread type available.
Standard : HCTV0201-C -> G Thread : HCTVG0201-C

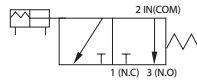
Symbol (N.C.)



Symbol (N.O.)



Symbol (3Port)



Specifications

Fluid temperature	0~60℃	Seal material	NBR + PTFE COATING
Ambient temperature	40℃ (Max.)	Body material	Teflon
Body connection	Rc(PT) 1/8, 1/4		

* Not available in explosive atmosphere.

Chemical Pinch Solenoid Valve

Classification



HPV 406 Series



HPV 810 Series

Model	Tube Size	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HPV406	1x3, 2x4, 3x5, 4x6	Chemical Liquid	0~1(0~0.1)	N.C.	0.3
HPV406NO				N.O.	
HPV406D				Double acting	
HPV810	5x8, 6x9, 7x10, 8x11	Air Water	0~1(0~0.1)	N.C.	0.8
HPV810NO				N.O.	
HPV810D				Double acting	

* It has the structure of controlling the fluid inside the silicon tube with an external pinch by a solenoid as a silicon tube is installed in the body.

How to Order



① Model
Refer to the table above

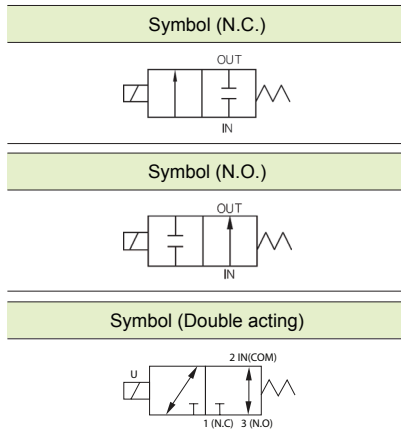
② Rated voltage
 AC110V : AC110V 50Hz/60Hz
 AC220V : AC220V 50Hz/60Hz
 DC24V : DC24V
 DC90V : DC90V
 DC180 : DC180V

Process Valve

Specifications

Fluid temperature	0~100℃	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50℃ (Max.)	Body material	PVC
Coil insulation	Class B	Electrical entry	Lead wire

* Not available in explosive atmosphere.



2, 3Port Coolant Valve
(Oil, Cutting Oil/Direct acting)

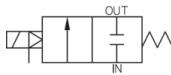


KLCV 093

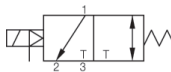


KLCV 154-3

Symbol (KLCV093,094)



Symbol (KLCV154-3)



Classification

Model	Thread Rc(PT), G	Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
KLCV093	3/8	9	Water, Air Oil Cutting oil	0~16(0~1.6)	Normal close, Direct acting	0.75
KLCV094	1/2				Normal open, Direct acting	
KLCV093NO	3/8			Option 0~30(0~3)		
KLCV094NO	1/2			Option 0~30(0~3)		
KLCV154-3	1/2			0~8(0~0.8) Option 0~80(0~8)	3port, Direct acting	2.99

※ In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order

KLCV094

- AC220V

①

②

① Model

Refer to the table above

※ Order made of G thread type available.
Standard : KLCV093 -> G Thread : KLCV**G**093

② Rated voltage

AC110V : AC110V 50Hz/60Hz
AC220V : AC220V 50Hz/60Hz
DC12V : DC12V
DC24V : DC24V
AC220V-50Hz : AC220V 50Hz
AC230V-50Hz : AC230V 50Hz
AC240V-50Hz : AC240V 50Hz
AC24V-50Hz : AC24V 50Hz

Specifications

Fluid temperature	0~60℃	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50℃ (Max.)	Seal material	SUS
Coil insulation	Class F	Body material	SUS 316
Electrical entry	Din connector type		

※ Not available in explosive atmosphere.

Cylinder Valve
(Water, Air Type/Pneumatic Valve)



HAV 8A



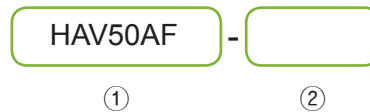
HAV 32AF

Classification

Model	Thread Rc(PT), G, JIS 10K FF		Orifice Ø	Fluid	Pressure range kgf/cm ² (MPa)		Feature	Weight (Kg)
	Valve	Cylinder			Valve	Cylinder		
HAV8A	1/4	M5	10	Air Water Clean oil	0~15(0~1.5)	5~7(0.5~0.7)	Pneumatic valve	0.4
HAV10A	3/8		10					0.4
HAV15A	1/2	1/8	15					0.9
HAV20A	3/4		20					1.25
HAV25A	1		25					1.45
HAV32A	1 1/4	1/4	32					2.5
HAV40A	1 1/2		40					2.9
HAV50A	2		50					3.8
HAV65A	2 1/2		65					8.8
HAV32AF	1 1/4		32					6.5
HAV40AF	1 1/2		40					6.7
HAV50AF	2	50	8.6					
HAV65AF	2 1/2	65	14.6					

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

Refer to the table above

* Order made of G thread type available.
Standard : HAV8A -> G Thread : HAVG8A

③ Seal material

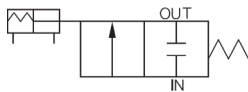
Symbol	Material	Use
Nil	NBR	(Standard)
M	FPM	Chemical, Hot water 120℃
E	EPDM	Hot water 100℃
U	URETHANE	

Specifications

Fluid temperature	0~60℃	Seal material	NBR
Ambient temperature	50℃ (Max.)	Body material	Screw type : Brass Flange type : Bronze

* Not available in explosive atmosphere.

Symbol



Electric Motor Valve Actuated Butterfly Valve



HMV 40BU



HMV 40BUS

Classification

Model	Body connection Ø Wafered type	Fluid	Pressure range kgf/cm ² (MPa)	Operating time	Feature	Weight (Kg)
HMV 40BU	40	Air, Water Clean oil	0~10(0~1)	2.5sec 10sec	Butterfly valve Single-phase three wire system	7.55
HMV 50BU	50					8.05
HMV 65BU	65					8.45
HMV 80BU	80					8.85
HMV 100BU	100					10.85
HMV 125BU	125			10sec		12.35
HMV 40BUS	40	Air Hot water Clean oil Steam	Steam 5(0.5) Water 10(1) Air 10(1)	2.5sec 10sec	SUS type butterfly valve Single-phase three wire system	7.75
HMV 50BUS	50					10.1
HMV 65BUS	65					11.05
HMV 80BUS	80					11.55
HMV 100BUS	100					13.55
HMV 125BUS	125			10sec		18.6
HMV 40BUV	40	Air Hot water Clean oil Steam	Steam 5(0.5) Water 10(1) Air 10(1)	2.5sec 10sec	Steam type butterfly valve Single-phase three wire system	7.75
HMV 50BUV	50					10.1
HMV 65BUV	65					11.05
HMV 80BUV	80					11.55
HMV 100BUV	100					13.55
HMV 125BUV	125			10sec		18.6

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order

HMV40BUV - 2 - AC220V

①

②

③

① Model

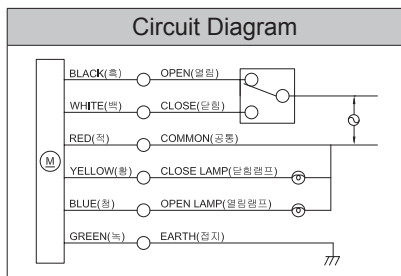
Refer to the table above

② Operating time

2 : 2.5sec
10 : 10sec

③ Rated voltage

AC110V : AC110V 50Hz/60Hz
AC220V : AC220V 50Hz/60Hz
DC12V : DC12V
DC24V : DC24V



Specifications

Fluid temperature	HMV-BU : 0~60℃ HMV-BUS(V) : 0~160℃	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50℃ (Max.)	Seal material	HMV-BU : NBR HMV-BUS(V) : Teflon
Electrical entry	Lead wire	Body material	HMV-BU : FC(DISK:SUS304) HMV-BUS : SUS304 HMV-BUV : FC(DISK:SUS304)

* Not available in explosive atmosphere.

Electric Motor Valve Actuated Ball Valve(Screw Type)



HMV 15SC



HMV 15SC-3T



HMV 02SC-15



HMV 02BSC

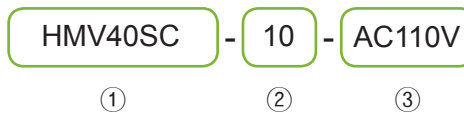
Classification

Model	Thread Rc(PT)	Fluid	Pressure range kgf/cm ² (MPa)	Operating time	Feature	Weight (Kg)				
HMV 15SC	1/2	Air	Steam 3(0.3) Water 10(1) Air 10(1)	2.5sec 10sec	3Piece Single-phase three wire system Body : SUS 304 (Option SUS 316) Seal : PTFE	5.05				
HMV 20SC	3/4					5.35				
HMV 25SC	1					5.70				
HMV 32SC	1 1/4					6.15				
HMV 40SC	1 1/2					7.25				
HMV 50SC	2					8.45				
HMV 15SC-3T(L)	1/2					Water	10(1)	15sec	3WAY, 3PIECE Single-phase three wire system BBody : SUS 304 (Option SUS 316) Seal : PTFE	5.05
HMV 20SC-3T(L)	3/4									5.45
HMV 25SC-3T(L)	1									5.95
HMV 32SC-3T(L)	1 1/4									6.6
HMV 40SC-3T(L)	1 1/2	7.85								
HMV 50SC-3T(L)	2	Clean oil	10(1)	2.5sec 15sec	1, 2PIECE Single-phase three wire system Body : SUS 316 Seal : Teflon	9.55				
HMV 02SC	1/4	Steam				1.5				
HMV 03SC	3/8					1.5				
HMV 04SC	1/2					1.5				
HMV 06SC	3/4					1.6				
HMV 10SC	1					1.7				
HMV 02SC-15	1/4	Water				10(1)	15sec	1, 2PIECE Single-phase three wire system Body : SUS 316 Seal : Teflon	1.5	
HMV 03SC-15	3/8								1.5	
HMV 04SC-15	1/2								1.5	
HMV 06SC-15	3/4								1.6	
HMV 10SC-15	1		1.7							
HMV 12SC-15	1 1/4	Clean oil	10(1)	10sec Option: 5sec (1/4, 3/8, 1/2)	2Way, 2Piece Single-phase three wire system Body : Brass, Seal : PTFE	1.9				
HMV 14SC-15	1 1/2					2.2				
HMV 18SC-15	2					2.7				
HMV 02BSC	1/4	Air	10(1)	10sec Option: 5sec (1/4, 3/8, 1/2)	2Way, 2Piece Single-phase three wire system Body : Brass, Seal : PTFE	0.4				
HMV 03BSC	3/8					0.4				
HMV 04BSC	1/2					0.45				
HMV 06BSC	3/4	Gas	10(1)	10sec	3Way, 3Piece Single-phase three wire system Body : Brass, Seal : PTFE	0.5				
HMV 02BSC-3	1/4					0.42				
HMV 03BSC-3	3/8					0.45				
HMV 04BSC-3	1/2					0.55				
HMV 06BSC-3	3/4					0.65				

Process Valve

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

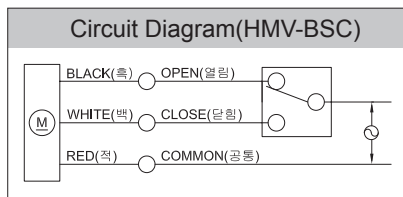
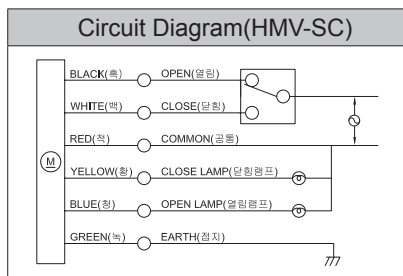
How to Order



① Model
Refer to the table above

② Operating time
2 : 2.5sec
10 : 10sec

③ Rated voltage
AC110V : AC110V 50Hz/60Hz
AC220V : AC220V 50Hz/60Hz
DC12V : DC12V
DC24V : DC24V



Specifications

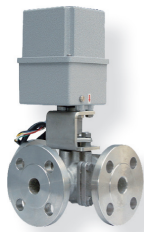
Fluid temperature	HMV-SC : 0~100°C(No freezing) HMV-BSC : 0~60 °C	Electrical entry	Lead wire
Ambient temperature	50°C (Max.)	Allowable voltage	±10% (AC), ±5% (DC)

* Not available in explosive atmosphere.

Electric Motor Valve Actuated Ball Valve(Flange Type)



HMV 15FL



HMV 15FL-3T(L)



HMV 15FLP

Classification

Model	Flange	Fluid	Pressure range kgf/cm ² (MPa)	Operating time	Feature	Weight (Kg)
HMV 15FL	15A	Air Water Clean oil Steam	Steam 3(0.3) Water 10(1) Air 10(1)	2.5sec 10sec	Flange type Single-phase three wire system Body : SUS 304 (Option:SUS 316) Seal : PTFE	6.65
HMV 20FL	20A					7.25
HMV 25FL	25A					8.2
HMV 32FL	32A					9.85
HMV 40FL	40A					11.15
HMV 50FL	50A					13.65
HMV 65FL	65A			16.8		
HMV 15FL-3T(L)	15A			2.5sec 10sec	3Way, Flange type Single-phase three wire system Body : SUS 304 (Option:SUS 316) Seal : PTFE	8.7
HMV 20FL-3T(L)	20A					9.2
HMV 25FL-3T(L)	25A					12.2
HMV 32FL-3T(L)	32A					16.3
HMV 40FL-3T(L)	40A					17.1
HMV 50FL-3T(L)	50A					21.1
HMV 65FL-3T(L)	65A	29.1				
HMV 15FLP	15A	Air, Water Chemical	0~10(0~1)	2.5sec 10sec	PVC Flange type Single-phase three wire system Body : PP Seal : FPM	4.9
HMV 20FLP	20A					4.95
HMV 25FLP	25A					5.15
HMV 32FLP	32A					5.75
HMV 40FLP	40A					6.05
HMV 50FLP	50A	6.45				

* In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order



① Model

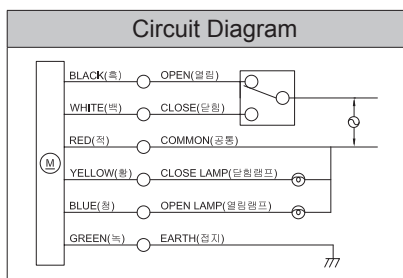
Refer to the table above

② Operating time

2 : 2.5sec
10 : 10sec

③ Rated voltage

AC110V : AC110V 50Hz/60Hz
AC220V : AC220V 50Hz/60Hz
DC12V : DC12V
DC24V : DC24V



Specifications

Fluid temperature	HMV-FL : 0~150℃ HMV-FLP : 0~60℃	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50℃ (Max.)	Electrical entry	Lead wire
Body connection	HMV-FL : JIS 10K RF HMV-FLP : JIS 10K FF		

* Not available in explosive atmosphere.

HMV02SC-P ~ 18SC-P series

PROCESS VALVE

Electric Motor Proportional Control Valve
Actuated Ball Valve



HMV 02SC-P

Classification

Model	Thread Rc(PT)	Fluid	Pressure range kgf/cm ² (MPa)	Feature	Weight (Kg)
HMV 02SC-P	1/4	Air Water Hot water Clean oil	Water 10(1) Air 10(1)	1 PIECE (1/2 ~ 2) 2 PIECE (1/4, 3/8)	2.3
HMV 03SC-P	3/8				2.3
HMV 04SC-P	1/2				2.2
HMV 06SC-P	3/4				2.3
HMV 10SC-P	1				2.4
HMV 12SC-P	1 1/4				2.6
HMV 14SC-P	1 1/2				2.9
HMV 18SC-P	2				3.4

※ In case of oil is applied, the range of pressure to be applied shall be based on the 50cst of oil viscosity.

How to Order

HMV03SC-P - AC220V

①

②

① Model

Refer to the table above

② Rated voltage

AC110V : AC110V 50Hz/60Hz

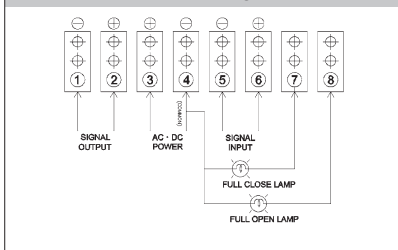
AC220V : AC220V 50Hz/60Hz

DC12V : DC12V

DC24V : DC24V

Process
Valve

Circuit Diagram



Specifications

Fluid temperature	0~100℃(No freezing)	Allowable voltage	±10% (AC), ±5% (DC)
Ambient temperature	50℃ (Max.)	Seal material	Teflon
Input signal	4~20mA 1~5V DC	Body material	SUS 316
Output signal	4~20mA 1~5V DC		

※ Not available in explosive atmosphere.