

## Accessories

### 14-4. I/P Valve Positioner Model:HEP

#### 14-4-1. For mounting on Control Valves

##### 14-4-1-1. Single acting type HEP Positioner

#### Note to Quotation

\*1 When replacement, the finish of the existing HEP is corrosion resistant (Y138A), select this code of "S".

\*2 When replacement, the finish of the existing HEP is Silver paint (Y138C), select this code of "D".

Basic Model                      Selection                      Option  
 HEP 

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(1)	(2)	(3)	(4)	(5)
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(6)
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Basic Model	Basic Price	Selection		Code	Add. Price
HEP15 (JIS Flameproof)	153	(1) Input Signal	4~20mA (Accuracy ±1%FS)	1	0
HEP16 (JIS Intrinsically Safe)	153		4~12mA (Accuracy ±2%FS)	3	0
HEP17 (JIS Watertight)	148		4~12±1mA (Accuracy ±2%FS)	4	0
HEP18 (FM Explosion-proof)	163		12~20mA (Accuracy ±2%FS)	5	0
HEP19 (FM Intrinsically Safe)	163		12±1~20mA (Accuracy ±2%FS)	6	0
			10~50mA (Accuracy ±1%FS)	2	0
		(2) Input/output charact.	Linear (Standard)	L	0
			Equal % EQ%	E	0
			Quick opening QO	Q	0
		(3) Electrical Connections	G1/2	G	0
			1/2NPT (Not available to Model HEP15)	N	0
			1/2NPT With G1/2-1/2NPT Adaptor	A	10
		(4) Finish	Standard finish *1	S	0
			Corrosion-proof Finish (Epoxy resin baking, Y138B)	B	15
			Corrosion-resist. Finish (Silver Acrylic resin baking, Y138D)*2	D	8
		(5) Positioner Action	Direct acting Positioner (Standard)	D	0
			Reverse acting Positioner	R	0

(6)	No selection	X	0
	Universal elbow, Explosion-proof (G1/2, SUS304)	A	2
	Press-tight cable packing adaptor (G1/2)	B	10
	Not applicable to 1/2NPT connection in selection (3)		
	Auto or manual Selector, 3PCB	D	24
	For cold area type	E	6
	Stainless filter (SH4040) for Pressure regulator with filter	F	8
	Using Neoprene Rubber for Pressure regulator with filter	K	8
	Pressure regulator with filter for high Temperature	L	7
	Tropicalization (SP0039)	N	17

## Accessories

### 14-4-1-2. Double acting HEP Positioner

#### Note to Quotation

\*1 When replacement, the finish of the existing HEP is corrosion resistant (Y138A), select this code of "S".

\*2 When replacement, the finish of the existing HEP is Silver paint (Y138C), select this code of "D".

Basic Model                      Selection                      Option  
 HEP 

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(1)	(2)	(3)	(4)	(5)
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(6)
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Basic Model	Basic Price
HEP25 (JIS Flameproof)	198
HEP26 (JIS Intrinsically Safe)	198
HEP28 (FM Explosionproof)	208
HEP29 (FM Intrinsically Safe)	208

Selection			Code	Price
(1)	Input Signal	4~20mA (Accuracy ±1%FS)	1	0
		4~12mA (Accuracy ±2%FS)	3	0
		4~12±1mA (Accuracy ±2%FS)	4	0
		12~20mA (Accuracy ±2%FS)	5	0
		12±1~20mA (Accuracy ±2%FS)	6	0
		10~50mA (Accuracy ±1%FS)	2	0
(2)	Input/ouput charact.	Linear (Standard)	L	0
		Equal % EQ%	E	0
		Quick opening QO	Q	0
(3)	Electrical Connections	G1/2	G	0
		1/2NPT (Not applicable to Model HEP25)	N	0
		1/2NPT (with G1/2-1/2NPT adaptor)	A	10
(4)	Finish	Standard finish *1	S	0
		Corrosion-proof Finish (Epoxy resin baking, Y138B)	B	15
		Corrosion-resist. Finish (Silver Acrylic resin baking, Y138D) *2	D	8
(5)	Positioner Action	Direct acting Positioner (Standard)	D	0
		Reverse acting Positioner	R	0

(6)	No selection	X	0
	Universal elbow, Explosion-proof (G1/2, SUS304)	A	2
	Press-tight cable packing adaptor (G1/2)	B	10
	Not applicable to 1/2NPT connection in selection (3)		
	For cold area type	E	6
	Stainless filter (SH4040) for Pressure regulator with filter	F	8
	No Silicon Grease use	G	5
	Using Neoprene Rubber for Pressure regulator with filter	K	8
	Pressure regulator with filter for high Temperature	L	7
	Tropicalization (SP0039)	N	17



**Accessories**

Option II	Add.Price
(13) No selection	X 0
Universal elbow, Explosion-proof (G1/2,SUS304)	A 2
Press-tight cable packing adaptor (G1/2)	B 10
Not applicable to 1/2NPT connection in selection (8)	
Short travel *5	C 0
Auto or manual Selector, 3PCB	D 24
Cold area type	E 6
Stainless filter (SH4040) for Pressure regulator with filter	F 8
Using Neoprene Rubber for Pressure regulator with filter	K 8
Pressure regulator with filter for high Temperature	L 7
Tropicalization(SP0039)	N 17

Table2.Additional price for bracket for single acting actuator

Actuator type	Mounting Bracket (Mounting Plate/Bolts) Code	SS400 Zinc Plating/ S30C Zinc plating A	No option X	SS400 Melted Zinc Coated/SUS304 B	SS400 Zinc Plating /SUS304 C	SUS304 /SUS304 D
PSA2	Y2	8	0	30	12	40
PSA3	Y3	8	0	30	12	40
PSA4	Y4	8	0	30	12	40
PSA6	YV	8	0	30	12	40
HA1	Y5	8	0	30	12	40
HA2,HL2	Y6	8	0	30	12	40
HA3,HL3	Y7	8	0	30	12	40
HA4,HL4	Y8	8	0	30	12	40
HK1	YA	8	0	-	-	-
VR1, RSA1	YB	24	0	-	-	-
VR2	YC	24	0	-	-	-
RSA2	R2	24	0	-	-	-
VR3	YD	24	0	-	-	-
VA1 *6	YE	8	0	30	12	40
VA2 *6	YF	8	0	30	12	40
VA3 *6	YG	8	0	30	12	40
VA4 *6	YH	8	0	30	12	40
VA5 *6	YJ	8	0	30	12	40
VA6 *6	YK	8	0	30	12	40
VA1 *7	V1	10	0	32	14	42
VA2 *7	V2	10	0	32	14	42
VA3 *7	V3	10	0	32	14	42
VA4 *7	V4	10	0	32	14	42
VA5 *7	V5	10	0	32	14	42
VA6 *7	V6	10	0	32	14	42
GOM83S	YL	8	0	40	12	50
GOM84S	YM	8	0	40	12	50
GOM103S	YN	8	0	40	12	50
GOM124S	YP	8	0	40	12	50

\*5 The following table shows the standard travel of Single type HEP positioner.

In case of out of range, please consult to IBD sales.

Actuator	Travel (mm)	Actuator	Travel (mm)
PSA1,2 PSK1	20	HK1	19
PSA3,4	38	VA1	14.3,25
PSA6	38,50,75	VA2	25,37.5
HA1	14.3,25	VA3	25,37.5,50
HA2	14.3,25.,38	VA4	25,37.5,50
HA3	25,35,50	VA5	50,75,100
HA4	38,50,75	VA6	50

\*6 VA actuator which produced on/after Apr. '83

\*7 VA actuator which produced before Apr. '83



**Accessories**

Option II		Add.Price	
(13)	No selection	X	0
	Universal elbow, Explosion-proof (G1/2,SUS304)	A	2
	Press-tight cable packing adaptor (G1/2)	B	10
	Not applicable to 1/2NPT connection in selection (8)		
	Cold area type	E	6
	Stainless filter (SH4040) for Pressure regulator with filter	F	8
	Using Neoprene Rubber for Pressure regulator with filter	K	8
	Pressure regulator with filter for high Temperature	L	7
	Tropicalization(SP0039)	N	17

Table2.Additional price for bracket for double acting actuator

Actuator type	Code	Mounting Bracket (Mounting Plate/Bolts)	SS400 Zinc Plating/ S30C Zinc plating	No option	SS400 Melted Zinc Coated/SUS304	SS400 Zinc Plating /SUS304	SUS304 /SUS304
VP5	H1		8	0	30	12	40
VP6	H2		8	0	30	12	40
VP7	H3		8	0	30	12	40
SLOP560	H4		10	5	40	15	50
SLOP1000	H5		10	5	40	15	40
SLOP1500	H6		10	5	40	15	50
SLOP1000X	H7		10	5	40	15	50
SLOP1500X	H8		10	5	40	15	50