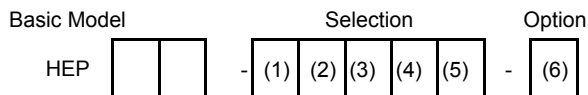


14-4-1-2. Double acting HEP Positioner

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	Basic Price
HEP26 (JIS Intrinsically Safe)	198
HEP22 (PTB Intrinsically Safe)	223
HEP28 (FM Explosionproof)	208
HEP29 (FM Intrinsically Safe)	208
HEP20 (NEPSI Explosion-proof)	223
HEP21 (NEPSI Intrinsically Safe)	223
HEP25 (JIS Flameproof)	198

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)
Equal % EQ%	E			0
Quick opening QO	Q			0
(3)	Electrical Connections	G1/2 (Not applicable to Model HEP20 & 21)	G	0
		1/2NPT (Not applicable to Model HEP25 & 45)	N	0
		1/2NPT (Not applicable to Model HEP20 & 21) (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 Neoplene 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	Mouting Bracket (Mouting Plate/Bolts)	Code	A	X	B	C	D	SUS304 /SUS304	SS400 Zinc Plating /SUS304	SS400 Melted Zinc Coated/SUS304	No option	SS400 Zinc Plating/ S30C Zinc plating
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	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		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 positionger.

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

Option II		Addd.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 regurator with filter	F	8
	Using Neoplene Rubber for Pressure regurator with filter	K	8
	Pressure regurator with filter for high Temperature	L	7
	Tropicalization(SP0039)	N	17

Table2.Additional price for bracket for double acting actuator

Actuator type	Mounting Bracket (Mounting Plate/Bolts) Code	SS400 Zinc Plating/ S30C Zinc plating	No option	SS400 Melted Zinc Coated/SUS304	SS400 Zinc Plating /SUS304	SUS304 /SUS304
		A	X	B	C	D
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

14-5. Semi-standard Specifications and Ordering information

No.	Description		Products outline and conditions
	Model No.	SP No.	
Z-2	Tropicalization (Field Instruments/Pneumatic instruments) <div style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></div> Z- <div style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></div> - <div style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></div>	SP0039-item	Quote to Sales office
Z-5	Special specification for cold areas for Pneumatic Positioner, pressure regulator with filter. <div style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></div> Z- <div style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></div> - <div style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></div>	SP0004	Ambient temperature: Limit of working range: -51 to +60Deg. C Conditions of transportation and storage: -51 to +80Deg. C
Z-6	Special specification for saline damage for Positioner, I/P converter <div style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></div> Z- <div style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></div> - <div style="border: 1px solid black; display: inline-block; width: 20px; height: 15px; vertical-align: middle;"></div>	SP0110-001	When calculating, Y-Spec (Yamatake semi-standard spec. written in the price list) like Y138A or others must be added to the model cost.
Z-8	Special specification for calibrating with "bar", "kPa" for Positioner, Pneumatic Signal	SP0105	1. Applicable model: I/P positioner: VPI, I/P converters, VPT Pneumatic positioners: HTP, VPP, HTM and Motion Transmitter. 2. Scale of Pressure Gauge(1-1/2) shall be either of followings. 0 to 2 bar or 0 to 200 kPa 3. Description on Name Plate is used kgf/cm ² or mmH ₂ O. kgf/cm ² or mmH ₂ O. For others, quote to IBD sales.