

Posts for Tension Springs

Hole / Notched Type

Hole

ASPO SASPO (Stainless Steel)

Wrench Flats
AIPO SAIPO (Stainless Steel)

Wrench Flats, Full Thread under Head
AIPOZ SAIPOZ (Stainless Steel)

(Above drawing is for both AIPOZ and SAIPOZ)

Type	Material	Surface Treatment	Accessory / Material
ASPO AIPO AIPOZ	S45C Equivalent	Black Oxide	Nut 1 pc. SWCH Equivalent (JIS Class 1)
SASPO	SUS303		
SAIPO SAIPOZ	SUS304		Nut 1 pc. SUS304 Equivalent (JIS Class 1)

The ℓ dimensions marked with * in the specification table are for dimensions in the right table.

Type	D-L	ℓ
ASPO SASPO	3-10	5
	5-15	8
	6-20	12
	8-20	11
	8-25	16
	10-30	17
	10-35	22
	12-40	20

Part Number	Type	D	L								M (Coarse)	ℓ^*	F	H	T	d	ASPO		SASPO	
			10	15	20	25	30	35	40	50							Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
ℓ Dimension Selectable	3	10	15	20	25	30	35	40		M3	10	3	1.0		1.5					
	4	15	20	25	30	35	40	50		M4	10	5	2.0		2.0					
	5	20	25	30	35	40	50			M5	10	5	2.0		2.0					
	6	25	30	35	40	45	50	60		M6	16	6	2.5		3.0					
	8	30	35	40	45	50	60	70		M8	20	6	3.0		4.0					
	10	35	40	45	50	60	70			M10	25	7	2.5		4.0					
	12	40	50	60	70					M12	30	9	1.8		6.0					

Part Number	Type	D	L								M (Coarse)	d	W	G	E	F	h	AIPO		SAIPO	
			15	20	25	30	35	40	50	60								70	Unit Price	Volume Discount Rate	Unit Price
Wrench Flats	3	15	20	25	30					M3	1.5	1.5	3	3.0	1.5	0.2					
	4	20	25	30	35					M4	2.5	2.5	3	3.5	1.75	0.3					
	5	25	30	35	40					M5	3.0	3.0	5	4.0	2.0	0.4					
	6	30	35	40	50					M6	2.0	3.5	5	5.0	2.5	0.5					
	8	35	40	50	60	70				M8	3.0	5.0	5	7.0	3.5	1.0					
	10	40	50	60	70					M10	4.0	6.0	5	10.0	4.0	1.2					
	12	45	50	60	70					M12	5.0	7.0	5	12.0	5.0	1.4					

Part Number	Type	D	L								M (Coarse)	d	W	E	F	h	AIPOZ		SAIPOZ	
			10	15	20	25	30	35	45	65							Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
Full Thread under Head	3	10	15	20	25					M3	1.5	1.5	3.0	1.5	0.2					
	4	15	20	25	30					M4	2.5	2.5	3.5	1.75	0.3					
	5	20	25	30	35					M5	3.0	3.0	4.0	2.0	0.4					
	6	25	30	35	45					M6	2.0	3.5	5.0	2.5	0.5					
	8	30	35	45	55	65				M8	3.0	5.0	7.0	3.5	1.0					
	10	35	45	55	65					M10	4.0	6.0	10.0	4.0	1.2					
	12	45	55	65						M12	5.0	7.0	12.0	5.0	1.4					

Notched Type **AIPOK SAIPOK** (Stainless Steel)

Type	Material	Surface Treatment	Accessory / Material
AIPOK	S45C Equivalent	Black Oxide	Nut 1 pc. SWCH Equivalent (JIS Class 1)
SAIPOK	SUS304		Nut 1 pc. SUS304 Equivalent (JIS Class 1)

Part Number	Type	D	L								M (Coarse)	d	d ₁	W	G	E	F	h	Working Max. Load N	AIPOK		SAIPOK	
			15	20	25	30	40	50	60	70										Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
Notched Type	4	15	20	25	30					M4	1.5	2.5	3.5	1.75	0.3	80	50						
	5	20	25	30	40					M5	2.0	3.0	4.0	2.0	0.4	115	72						
	6	25	30	40	50					M6	2.0	3.5	5.0	2.5	0.5	179	113						
	8	30	40	50	60	70				M8	3.0	5.0	7.0	3.5	1.0	300	189						
	10	35	45	55	65					M10	4.0	6.0	10.0	4.0	1.2	433	273						
	12	40	50	60	70					M12	5.0	7.0	12.0	5.0	1.4	590							

kgf=Nx0.101972

Ordering Example

Part Number - L

ASPO5 - 20

AIPOK8 - 40

Posts for Tension Springs

L-Shaped / Hex Socket Type / Hex Type

L-Shaped

Hole **ASPL SASPL** (Stainless Steel)

Groove **BSPL SBSPL** (Stainless Steel)

Type	Material	Surface Treatment	Accessory / Material
ASPL BSPL	S45C Equivalent	Black Oxide	Nut 1 pc. SWCH Equivalent (JIS Class 1)
SASPL SBSPL	SUS304		Nut 1 pc. SUS304 Equivalent (JIS Class 1)

Part Number	Type	D	L								M (Coarse)	K	ℓ	A	F	d	ASPL		SASPL		BSPL		SBSPL	
			10	15	20	25	30	35	40	50							Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
L-Shaped	3	10	15							M3	20	10	1.0	3	1.5	1.8								
	4	15	20	25						M4	20	10	1.2	3	2.0									
	5	20	25	30						M5	20	10	2.0	5	2.0									
	6	25	30	35						M6	30	16	5	4	3.0									
	8	30	35	40						M8	40	20	3.0	6	4	5.0								
	10	35	40	45						M10	50	25	7	7	6.0									
	12	40	50	60						M12	60	30	4.0	9	6.0	6.5								

Hex Socket Type

ARPO SARPO (Stainless Steel)

Type	Material	Surface Treatment	Accessory / Material
ARPO	SCM435	Black Oxide	Nut 1 pc. SWCH Equivalent (JIS Class 3)
SARPO	SUS304		Nut 1 pc. SUS304 Equivalent (JIS Class 3)

Part Number	Type	M	L								d	D	E	F	A	B	H	ARPO		SARPO	
			15	20	25	30	35	40	50	60								Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
Hex Socket	4	5	15	20	25	30				1.5	3.0	3	1.5	7	3	4	5				
	5	15	20	25	30	35	40			2	3.8	4	2	8.5	4	5					
	6	20	25	30	35	40				2	4.5	4	2	10	5	6					
	8	20	25	30	35	40	50			3	6.1	7	3.5	13	6	8					
	10	30	35	40	50	60				4	7.8	10	4	16	8	10					
	12	40	50	60						5	9.5	12	5	18	10	12					

Hex Type

DSPO PDSPO

Type	Material	Surface Treatment
DSPO	SUM	Black Oxide
PDSPO		Electroless Nickel Plating

Part Number	Type	B	L								M (Coarse)	(C)	ℓ	A	F	d	DSPO		PDSPO	
			10	15	20	25	30	40	50	Unit Price							Volume Discount Rate	Unit Price	Volume Discount Rate	
DSPO PDSPO	3	10	15							M3	3.5	6	1.0	3	1.8					
	4	10	15	20						M4	4.6	8	1.2	4	2.0					
	5	10	15	20						M5	5.8	10	2.0	4	3.0					
	6	10	15	20	25					M6	6.9	12	3.0	4	3.6					
	8	10	15	20	25	30				M8	9.2	16	3.0	4	5.0					
	10	15	20	25	30					M10	11.5	20	4	6.0						
	12	20	25	30						M12	13.9	24	4.0	4	6.5					

Ordering Example

Part Number - L

ASPL4 - 15

ARPO6 - 20

DSPO8 - 25