

# Low Pressure Screw Fittings

## Equal Dia.

Note that, for some of the types shown here, order might be unable to be received by the MISUMI Indonesia offices.

# MISUMI C-VALUE Low Pressure Screw Fittings

## Equal Dia.

Points of comparison between similar products

① JIS Standard Compliant, ② Thick, Heavyweight, High Strength, ③ RoHS Compliant

**90° Elbow**

Type	Material	Surface Treatment
SGPPE	FCMB270	Hot Zinc Plating
SUTPE	SCS13A	-
SUTPES	SCS14A	-

RoHS 10

\* For SUTPES, 32A-50A are not provided.

**Male / Female Elbows**

Type	Material	Surface Treatment
SGPPEL	FCMB270	Hot Zinc Plating
SUTPEL	SCS13A	-

RoHS 10

**Tees**

Type	Material	Surface Treatment
SGPPT	FCMB270	Hot Zinc Plating
SUTPT	SCS13A	-

RoHS 10

**Hex Nipples**

Type	Material	Surface Treatment
SGPNR	FCMB270	Hot Zinc Plating
SUTNR	SCS13A	-
SUTNRS	SCS14A	-

RoHS 10

\* Shape of B Part: No.6A ~ 40A = Hex, 50A = Octagon

Part Number	Rc (PT)	SGPPE						SUTPE, SUTPES		SGPPE		SUTPE		SUTPES	
		No.	(D)	(L)	(A)	(D)	(L)	(A)	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	
SGPPE SUTPE SUTPES*	6A	1/8	15	17	24.5	18	19	28	-	-	-	-	-	-	
	8A	1/4	19	19	28.5	22	19	30	-	-	-	-	-	-	
	10A	3/8	24	23	35	26	23	36	-	-	-	-	-	-	
	15A	1/2	28	27	41	30	27	42	-	-	-	-	-	-	
	20A	3/4	34	32	49	36	32	50	-	-	-	-	-	-	
	25A	1	43	38	59.5	44	38	60	-	-	-	-	-	-	
	32A	1 1/4	51	46	71.5	53	46	72.5	-	-	-	-	-	-	
	40A	1 1/2	57	48	76.5	60	48	78	-	-	-	-	-	-	
	50A	2	70	57	92	73	57	93.5	-	-	-	-	-	-	

\* For orders larger than indicated quantity, please check with WOS.

Part Number	R, Rc (PT)	SGPPEL						SUTPEL				SGPPEL		SUTPEL		
		(D)	(L1)	(L2)	A	B	(D)	(L1)	(L2)	A	B	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	
SGPPEL SUTPEL	6A	1/8	19	23	36	17	26	14.5	22	33	17	26	-	-	-	-
	8A	1/4	22	26	42	19	30	19	24.3	39.5	19	30	-	-	-	-
	10A	3/8	27	31	48	23	35	23	29.8	46.5	23	35	-	-	-	-
	15A	1/2	31	38	56	27	40	27	35.8	53.5	27	40	-	-	-	-
	20A	3/4	36	45	66	32	47	33	43.3	63.5	32	47	-	-	-	-
	25A	1	45	55	76.5	38	54	41	52.5	74.5	38	54	-	-	-	-
	32A	1 1/4	55	67	89.5	46	62	50	64	87	46	62	-	-	-	-
	40A	1 1/2	62	72	99	48	68	56	68.5	96	48	68	-	-	-	-
	50A	2	75	87	116.5	57	79	69	83	113.5	57	79	-	-	-	-

\* For orders larger than indicated quantity, please check with WOS.

Part Number	Rc (PT)	SGPPT			SUTPT			SGPPT		SUTPT		
		(D)	(L)	A	(D)	(L)	A	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	
SGPPT SUTPT	6A	1/8	16	25.5	17	18	28	19	-	-	-	-
	8A	1/4	20	29	19	22	30	19	-	-	-	-
	10A	3/8	24	35.5	23	26	36	23	-	-	-	-
	15A	1/2	28	42	27	30	42	27	-	-	-	-
	20A	3/4	34	50	32	36	50	32	-	-	-	-
	25A	1	43	59.5	38	44	60	38	-	-	-	-
	32A	1 1/4	51	71.5	46	53	72.5	46	-	-	-	-
	40A	1 1/2	57	76.5	48	60	78	48	-	-	-	-
	50A	2	70	92	57	73	93.5	57	-	-	-	-

\* For orders larger than indicated quantity, please check with WOS.

Part Number	R (PT)	B*	L			d			SGPNR		SUTNR		SUTNRS	
			SGPNR	SUTNR	SUTNRS	SGPNR	SUTNR	SUTNRS	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
SGPNR SUTNR SUTNRS	6A	1/8	14	32	32	11	11	5	5	5.0	-	-	-	-
	8A	1/4	17	34	34	12.5	13.5	7	7	6.8	-	-	-	-
	10A	3/8	21	36	36	13	13.5	9	9	9.0	-	-	-	-
	15A	1/2	26	43	42	16.5	18	13	13	13.2	-	-	-	-
	20A	3/4	32	48	47	18.5	19.5	18	16	15.8	-	-	-	-
	25A	1	38	52	52	20.5	20.5	24	22	21.7	-	-	-	-
	32A	1 1/4	46	56	56	22.5	22.5	32	30	30.1	-	-	-	-
	40A	1 1/2	54	60	60	23.5	23.5	37	35	-	-	-	-	-
	50A	2	63	66	66	25.5	25.5	48	47	-	-	-	-	-

\* For orders larger than indicated quantity, please check with WOS.

Ordering Example: Part Number SUTPE20A

### Applicable Standards

Similar Parts: JIS B 2301, JIS B 2302, JIS B 0203 Compliant  
C-VALUE Products: ISO 4144 Compliant, GB/T 7306 Equivalent

### Fitting Material

Fitting Type	Steel	Stainless Steel
Low Pressure Screw Fittings	Casting: FCMB270 (Malleable Casting) or Equivalent * Customers who are particular about external appearance should note that surface is rough because of limitations in the manufacturing process.	Casting: SCS13A (SUS304 Equivalent) SCS14A (SUS316 Equivalent) or Equivalent
High Pressure Screw Fittings	S25C or Equivalent	SCS13A (SUS304 Equivalent)

### Pressure, Temperature Standards

Similar Part, C-VALUE Products Common Specifications

Fluid State (°C)	Max. Operating Pressure (Mpa)
Steam, Air, Gas, Oil: Up to 300°C	1.0
Steam, Air, Oil, Pulsating Water: Up to 200°C	1.4
Static Flow Water: Up to 120°C	2.0

\* Pulsating Water is a stream of water that is generated under steady operating conditions and variation of pressure and flow rate occurs in cycles.  
\* Static Flow Water is a non-pulsating stream of water.

Points of comparison between similar products

① ISO Standard Equivalent, ② Thin, Lightweight, ③ Not RoHS Compliant

For similar parts P.1273

**90° Elbow**

Type	Material
C-SUTPE	SCS13A

**Male / Female Elbows**

Type	Material
C-SUTPEL	SCS13A

**Tees**

Type	Material
C-SUTPT	SCS13A

Ordering Example: Part Number C-SUTPE20A

Example

### Minimum Thickness Dimension, Weight

90° Elbow

\* Thickness and weight are for reference, and should not be used as quality criteria.

No.	Rc (PT)	Minimum Thickness (mm)		Weight (g)	
		Similar Part	C-VALUE Products	Similar Part	C-VALUE Products
6A	1/8	2.8	2.5	55	25
8A	1/4	3.2	2.9	50	40
10A	3/8	3.2	2.9	75	45
15A	1/2	3.5	1.6	120	70
20A	3/4	3.5	1.7	185	110
25A	1	3.5	1.9	295	200

Male/Female Elbows

\* Thickness and weight are for reference, and should not be used as quality criteria.

No.	R, Rc (PT)	Minimum Thickness (mm)		Weight (g)	
		Similar Part	C-VALUE Products	Similar Part	C-VALUE Products
6A	1/8	2.8	1.1	30	20
8A	1/4	3	1.5	40	30
10A	3/8	3	1.5	60	45
15A	1/2	3.5	2	85	70
20A	3/4	3.5	2	150	110
25A	1	3.5	2	240	190

Tees

\* Thickness and weight are for reference, and should not be used as quality criteria.

No.	Rc (PT)	Minimum Thickness (mm)		Weight (g)	
		Similar Part	C-VALUE Products	Similar Part	C-VALUE Products
6A	1/8	3.2	2.5	90	25
8A	1/4	3.2	2.9	80	45
10A	3/8	3.2	2.9	105	75
15A	1/2	3.2	1.6	165	100
20A	3/4	3.2	1.7	240	165
25A	1	3.4	1.9	410	320

# Low Pressure Screw Fittings

## Thread Coated Type

■ Features: Male threads are coated. Provides immediate out of the box operation.

■ Steel Pipe Fittings  
Female/Male Elbows

Type	Material	Surface Treatment
SGCEL	FCMB270	Hot Zinc Plating
SUCEL	SCS13A	-

Ⓜ Allowable temperature: 150°C

■ Steel Pipe Fittings  
Plugs

Type	Material	Surface Treatment
SGCPP	FCMB270	Hot Zinc Plating
SUCPP	SCS13A	-

Ⓜ Allowable temperature: 150°C

■ Steel Pipe Fittings  
Round Nipples

Type	Material	Surface Treatment
SGCNP	SGP	Hot Zinc Plating
SUCNP	SUS304	-

Ⓜ Allowable temperature: 150°C

■ Steel Pipe Fittings  
Hex Nipples

Type	Material	Surface Treatment
SGCNR	FCMB270	Hot Zinc Plating
SUCNR	SCS13A	-

Ⓜ Allowable temperature: 150°C

■ Steel Pipe Fittings  
Bushings

Type	Material	Surface Treatment
SGCPB	FCMB270	Hot Zinc Plating
SUCPB	SCS13A	-

Ⓜ Allowable temperature: 150°C

Part Number	R Rc (PT)	SGCEL					SUCEL					SGCEL		SUCEL		
		(D)	(L1)	(L2)	A	B	(D)	(L1)	(L2)	A	B	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	
SGCEL SUCEL	6A	1/8	19	23	36	17	26	14.5	22	33	17	26				
	8A	1/4	22	26	42	19	30	21	26	41	19	30				
	10A	3/8	27	31	48	23	35	25	32	48	23	35				
	15A	1/2	31	38	56	27	40	29	38	55	27	40				
	20A	3/4	36	45	66	32	47	36	46	65	32	47				
25A	1	45	55	76.5	38	54	44	55	76	38	54					

Ⓜ For orders larger than indicated quantity, please check with WOS.

Part Number	R (PT)	Square Size H	t	L		SGCPP		SUCPP	
				SGCPP	SUCPP	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
SGCPP SUCPP	6A	1/8	7	7	16	16			
	8A	1/4	9	8	19	19			
	10A	3/8	12	9	21	21			
	15A	1/2	14	10	26	25			
	20A	3/4	17	11	29	28			
25A	1	19	12	31	31				

Ⓜ For orders larger than indicated quantity, please check with WOS.

Part Number	R (PT)	D	L	d		SGCNP		SUCNP	
				SGCNP	SUCNP	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
SGCNP SUCNP	6A	1/8	10.5	24	6.5	6.5			
	8A	1/4	13.8	26	8.7	9.7			
	10A	3/8	17.3	28	12.1	13.1			
	15A	1/2	21.7	34	15.8	15.5			
	20A	3/4	27.2	38	21.6	21.3			
25A	1	34	42	27.8	28.1				

Ⓜ For orders larger than indicated quantity, please check with WOS.

Part Number	R (PT)	B	L		d		SGCNR		SUCNR		
			SGCNR	SUCNR	SGCNR	SUCNR	SGCNR	SUCNR	Unit Price	Volume Discount Rate	Unit Price
SGCNR SUCNR	8A	1/4	17	34	34	12.5	12	7	7		
	10A	3/8	21	36	36	13	13	9	9		
	15A	1/2	26	43	42	16.5	16	13	13		
	20A	3/4	32	48	47	18.5	18	18	16		
	25A	1	38	52	52	20	20	24	22		

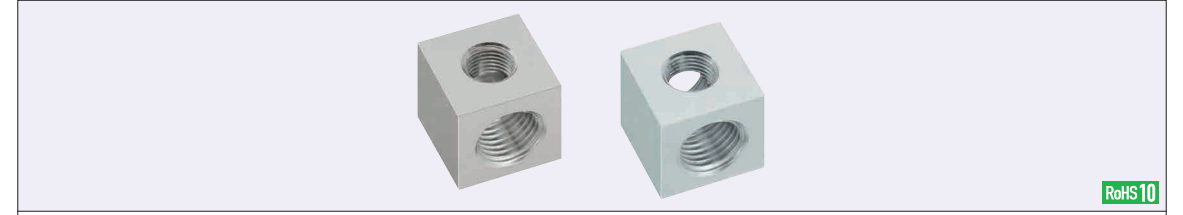
Ⓜ For orders larger than indicated quantity, please check with WOS.

Part Number	Rc (PT)	R (PT)	L	B	SGCPB		SUCPB	
					SGCPB	SUCPB	Unit Price	Volume Discount Rate
SGCPB SUCPB	12	1/8	1/4	17	17			
	13	1/8	3/8	18	21			
	23	1/4	3/8	18	21			
	24	1/4	1/2	21	26			
	34	3/8	1/2	21	26			
	36	3/8	3/4	24	32			
46	1/2	3/4	24	32				

Ⓜ For orders larger than indicated quantity, please check with WOS.

# Thread Conversion Fittings

## L-Shaped / T-Shaped



RoHS10

Type	Material	Surface Treatment	Max. Operating Pressure
L-Shaped	Steel for General Structure	Electroless Nickel Plating	20.6MPa
T-Shaped	Aluminum Alloy	-	1MPa

Thread JIS B 0203 R (PT)  
JIS B 0202 G (PF): ISO 228-1 Interchangeable  
ANSI/ASME B.1.20.1-1983 (NPT)

■ L-Shaped

Part Number	Thread Shape①	No.	T (PT) G (PF) N (NPT)	Thread Shape②	No.	T (PT) G (PF) N (NPT)	L	A	B	E	F	Unit Price			
												APBLM	APBLS	APBLA	
APBLM (SS400) APBLS (SUS304) APBLA (A5052)	T (PT) G (PF) N (NPT)	1	1/8	-	M5	-	25	25 (30)	25 (30)	12.5	12.5 (15)				
					1	1/8	25	25 (30)	25 (30)	12.5	12.5 (15)				
		2	1/4	-	M5	-	30	30	30	15	15				
					1	1/8	30	30	30	15	15				
		3	3/8	-	1	1/8	35	35 (40)	35 (40)	17.5	17.5 (20)				
					2	1/4	40	40	40	20	20				
	3				3/8	40	40	40	20	20					
	4				1/2	50	50	50	25	25					
	4	1/2	-	3	3/8	50	50	50	25	25					
				4	1/2	50	50	50	25	25					

Ⓜ Dimensions in ( ) are applicable to SUS304.

■ T-Shaped

Part Number	Thread Shape①	No.	T (PT) G (PF) N (NPT)	Thread Shape②	No.	T (PT) G (PF) N (NPT)	Thread Shape③	No.	T (PT) G (PF) N (NPT)	L	A	B	E	F	Unit Price		
															APBTM	APBTS	APBTA
APBTM (SS400) APBTS (SUS304) APBTA (A5052)	T (PT) G (PF) N (NPT)	1	1/8	-	M5	-	-	M5	-	25	25 (30)	25 (30)	12.5	12.5 (15)			
					1	1/8	25	25 (30)	25 (30)	12.5	12.5 (15)						
		2	1/4	-	M5	-	30	30	30	15	15						
					1	1/8	30	30	30	15	15						
		3	3/8	-	1	1/8	35	35 (40)	35 (40)	17.5	17.5 (20)						
					2	1/4	40	40	40	20	20						
	3				3/8	40	40	40	20	20							
	4				1/2	50	50	50	25	25							
	4	1/2	-	3	3/8	50	50	50	25	25							
				4	1/2	50	50	50	25	25							

Ⓜ Dimensions in ( ) are applicable to SUS304.

Ordering Example: Part Number - Thread Shape① - Thread Shape② - Thread Shape③  
APBLM - T1 - T2 - M5  
APBTA - T1 - M5 - M5

- ⓘ Cautions
- Not applicable to steam plumbing.
  - Once fittings are used, the function of the thread coating resin is impaired. Thus, Wrap seal tape around fittings before use.