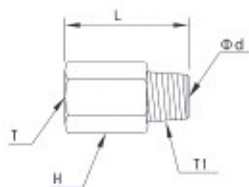


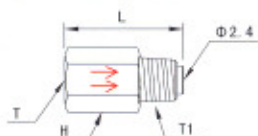
## Straight Adapter



Model	Bore	Φd	L	T	T1	H	Weight (g)
PD0401	Φ4	3	18	M8 × 1.0	PT1/8	10	8
PD0402	Φ4	3.5	18	M8 × 1.0	PT1/4	14	17
PD0406-1	Φ4	2.5	18	M8 × 1.0	M6 × 0.75	10	6
PD0406	Φ4	2.5	18	M8 × 1.0	M6 × 1.0	10	6
PD0408	Φ4	3	18	M8 × 1.0	M8 × 1.0	10	6
PD0410	Φ4	3	18	M8 × 1.0	M10 × 1.0	10	8
PD0601	Φ6	4	18	M10 × 1.0	PT1/8	10	8
•PD0601Z	Φ6	4	18	M10 × 1.0	Z1/8	12	8
PD0602	Φ6	5	18	M10 × 1.0	PT1/4	14	14
PD0608	Φ6	3	18	M10 × 1.0	M8 × 1.0	12	8
PD0801	Φ8	5	26	M14 × 1.5	PT1/8	17	22
PD0802	Φ8	6	26	M14 × 1.5	PT1/4	17	26
PD1001	Φ10	5	28	M16 × 1.5	PT1/8	19	29
PD1002	Φ10	7	28	M16 × 1.5	PT1/4	19	33

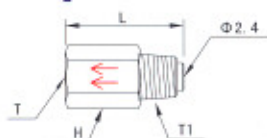
•Special designs.

## Opposite Straight Adapter



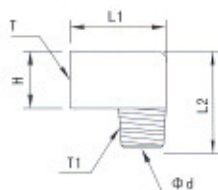
Model	Bore	L	T	T1	H	Weight (g)
PD0401B	Φ4	26	M8 × 1.0	PT1/8	10	11
PD0601B	Φ6	26	M10 × 1.0	PT1/8	12	14

## Single Straight Adapter



Model	Bore	L	T	T1	H	Weight (g)
PD0401A	Φ4	26	M8 × 1.0	PT1/8	10	11
PD0601A	Φ6	26	M10 × 1.0	PT1/8	12	14

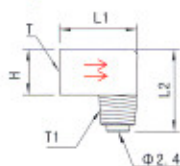
## Elbow Adapter



Model	Bore	Φd	L1	L2	T	T1	H	Weight (g)
PH0401	Φ4	3	18	18	M8 × 1.0	PT1/8	10	13
PH0402	Φ4	4	20	22	M8 × 1.0	PT1/4	14	32
PH0406-1	Φ4	2	18	18	M8 × 1.0	M6 × 0.75	10	13
PH0406	Φ4	2	18	18	M8 × 1.0	M6 × 1.0	10	12
PH0408	Φ4	3	18	18	M8 × 1.0	M8 × 1.0	10	13
PH0601	Φ6	4	20	20	M10 × 1.0	PT1/8	12	20
•PH0601Z	Φ6	4	20	20	M10 × 1.0	Z1/8	12	20
PH0602	Φ6	4	20	22	M10 × 1.0	PT1/4	14	29
PH0608	Φ6	3	20	20	M10 × 1.0	M8 × 1.0	12	20
PH0801	Φ8	5	26	29	M14 × 1.5	PT1/8	17	52
PH0802	Φ8	6	26	29	M14 × 1.5	PT1/4	17	56
•PH1001	Φ10	5	29	31	M16 × 1.5	PT1/8	19	70
PH1002	Φ10	7	29	31	M16 × 1.5	PT1/4	19	70

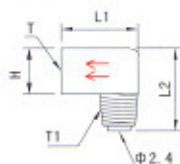
•Special designs.

## Opposite Elbow Adapter



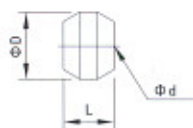
Model	Bore	L1	L2	T	T1	H	Weight (g)
PH0401B	Φ4	18	20	M8 × 1.0	PT1/8	10	14
PH0601B	Φ6	20	22	M10 × 1.0	PT1/8	12	21

## Single Elbow Adapter



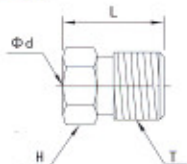
Model	Bore	L1	L2	T	T1	H	Weight (g)
PH0401A	Φ4	18	20	M8 × 1.0	PT1/8	10	14
PH0601A	Φ6	20	22	M10 × 1.0	PT1/8	12	21

### Compression Sleeve



Model	Bore	Φd	D	L	Weight (g)
PB04	Φ4	4.1	6	4.5	0.3
PB06	Φ6	6.1	8	4.5	0.6
PB08	Φ8	8.1	11	7	2
PB10	Φ10	10.1	13.5	8	3

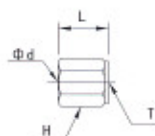
### Compression Bushing



Model	Bore	Φd	L	T	H	Weight (g)
PA04	Φ4	4.1	12	M8 × 1.0	8	3
•PA04-1	Φ4	4.2	12	M8 × 1.0	8	3
PA06	Φ6	6.1	12.5	M10 × 1.0	10	4
PA08	Φ8	8.1	14	M14 × 1.5	14	9
PA10	Φ10	10.1	15	M16 × 1.5	16	12

• Special designs.

### Compression Nut



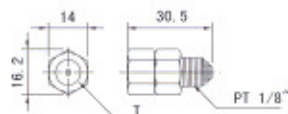
Model	Bore	Φd	L	T	H	Weight (g)
DP04	Φ4	4.05	13	M8 × 1.0	10	3

### Connector Insert



Model	A	B	Weight (g)
PPD04	Φ4	Φ2	0.2
PPD06	Φ6	Φ4	

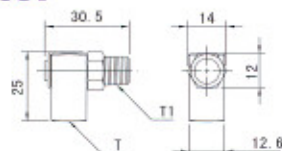
### Swivel Straight Adapter



Model	Bore	T	T1	Weight (g)
PM0401	Φ4	M8 × 1.0	PT1/8	28
PM0601	Φ6	M10 × P1.0	PT1/8	26
PM0101	Φ4	PT1/8	PT1/8	26

\* Order per specification is welcome

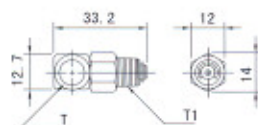
### Swivel Elbow Adapter



Model	Bore	T	T1	Weight (g)
PC0401	Φ4	M8 × 1.0	PT1/8	38
PC0406	Φ4	M8 × 1.0	M6 × 1.0	38
PC0408	Φ4	M8 × 1.0	M8 × 1.0	38
PC0101	Φ4	PT1/8	PT1/8	36

\* Order per specification is welcome

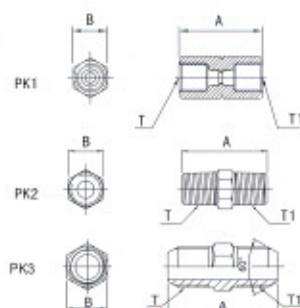
### Plane Swivel Elbow Adapter



Model	Bore	T	T1	Weight (g)
PE0101	Φ4	PS1/8	PT1/8	25

\* Order per specification is welcome

### Connector

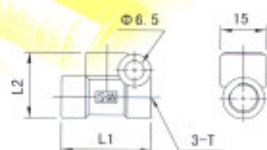


Model	A	B	T	T1	Weight (g)
PK10404	23	10	M8 × P1.0	M8 × P1.0	10
PK10606	25	12	M10 × P1.0	M10 × P1.0	15
PK20101	24.5	10	PT1/8	PT1/8	9
PK20102	27	14	PT1/8	PT1/4	17
PK20202	30	14	PT1/4	PT1/4	19
PK20203	30	17	PT1/4	PT3/8	26
PK31010	29	17	M10 × P1.0	M10 × P1.0	9

\* Order per specification is welcome

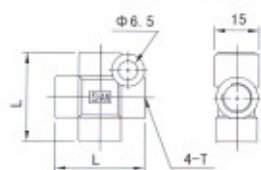
\* The above unit without mentioning is all "mm".

### T-Junction



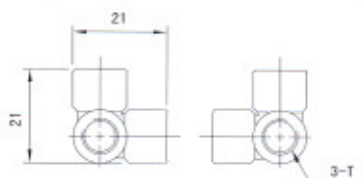
Model	Bore	T	L1	L2	Weight (g)
PKD04	Φ4	M8 × 1.0	28	19.5	15
PKD06	Φ6	M10 × 1.0	30	22	26

### Cross-Junction



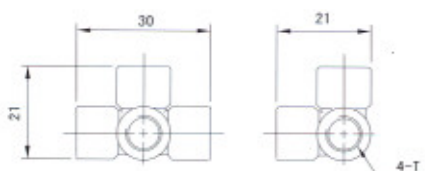
Model	Bore	T	L	Weight (g)
PJD04	Φ4	M8 × 1.0	28	15
PJD06	Φ6	M10 × 1.0	30	26

### 3-Way Junction



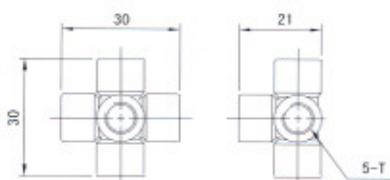
Model	Bore	T	Weight (g)
PHD301	Φ4	M8 × 1.0	20

### 4-Way Junction



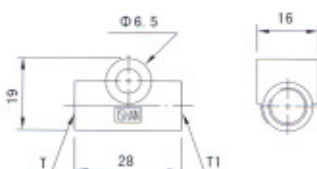
Model	Bore	T	Weight (g)
PHD401	Φ4	M8 × 1.0	25

### 5-Way Junction



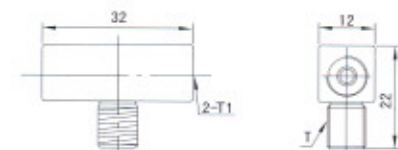
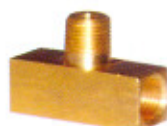
Model	Bore	T	Weight (g)
PHD501	Φ4	M8 × 1.0	29

### 2-Way Junction



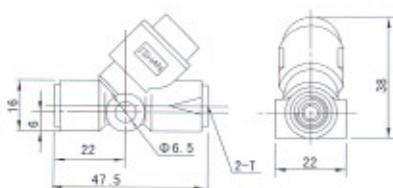
Model	Bore	T	T1	Weight (g)
PJ0404	Φ4 × Φ4	M8 × 1.0	M8 × 1.0	23
PJ0406	Φ4 × Φ6	M8 × 1.0	M10 × 1.0	22
PJ0606	Φ6 × Φ6	M10 × 1.0	M10 × 1.0	20

### Transitional T-Junction



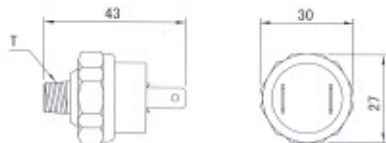
Model	Bore	T	T1
PKT0401	Φ4	PT1/8	M8 × 1.0
PKT0406	Φ4	M6 × P1.0	M8 × 1.0
PKT0408	Φ4	M8 × P1.0	M8 × 1.0
PKT0601	Φ6	PT1/8	M10 × 1.0
PKT0606	Φ6	M6 × P1.0	M10 × 1.0
PKT0608	Φ6	M8 × P1.0	M10 × 1.0

### Transitional 2-Way Oil filter



Model	GPJ04-1	GPJ06-1
Bore	Φ4-Φ4	Φ6-Φ6
T	M8 × P1.0	M10 × P1.0
Filter Precision(μ)	20	20
Usage scale	Single line resistance systems	
Pressure(kgf/cm <sup>2</sup> )	25	25
Maximum Output(L/min)	1	1
Oil viscosity(cSt)	30-250	30-250

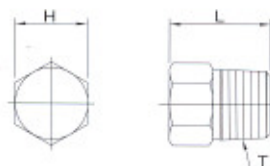
### Film Pressure Switch



Model	Description		T	Weight (g)
	ON	OFF		
321610	9kg $\Delta$	11kg $\nabla$	NPT1/8"	35
321602	11kg $\nabla$	9kg $\Delta$	NPT1/8"	35
321606	2.1kg $\Delta$	-	UNF3/8"-24	35
321607	3.5kg $\Delta$	-	NPT1/8"	35
321609	-	2.1kg $\Delta$	UNF3/8"-24	35

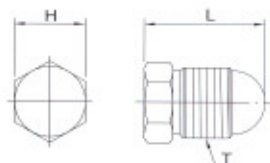
$\Delta$ : upward  $\nabla$ : downward  
 P.S.1. Use rated current 3.5A and below.  
 2. Max. home pressure is 50kg/cm<sup>2</sup>

### Closure Plug



Model	L	T	H	Weight (g)
PG0408	12	M8 x 1.0	8	4.4
PG0601	14	PT1/8	10	7.6

### Plug



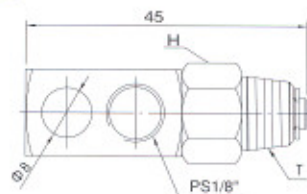
Model	L	T	H	Weight (g)
PG04	16	M8 x 1.0	8	5.4
PG06	17	M10 x 1.0	10	8.8

### Inlet T-Junction



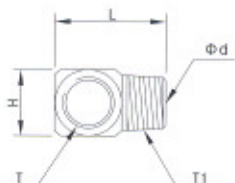
Model	T	L1	L2	W	Weight (g)
PT01	PS1/8"	27	21	14	34
PT02	PS1/4"	31	25	18	47
PT03	PS3/8"	40	31	21	86

### Brass Swivel Fitting



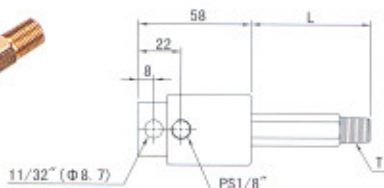
Model	T	H	Weight (g)
PQ0101	PT1/8"	14	44
PQ0201	PT1/4"	14	47

### Plane Elbow Adapter



Model	Bore	$\Phi d$	L	T	T1	H	Weight (g)
PI 0401	$\Phi 4$	2	21	M8 x 1.0	PT1/8"	12.7	17
PI 0401Z	$\Phi 4$	2	21	M8 x 1.0	Z1/8"	12.7	17
PI 0408	$\Phi 4$	2	21	M8 x 1.0	M8 x 1.0	12.7	15
PI 0410	$\Phi 4$	2	21	M8 x 1.0	M10 x 1.0	12.7	15
PI 0601	$\Phi 6$	2	22.3	M10 x 1.0	PT1/8"	12.7	15
PI 0101	$\Phi 2.5$	21	PS1/8	PT1/8"	12.7	15	

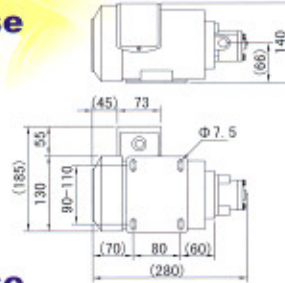
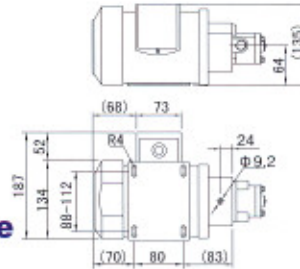
### Heavy Duty Swivel Fitting



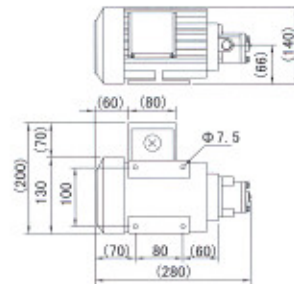
Model	T	L	Weight (g)
PN142	PT1/8"	42	180
PN230	PT1/4"	30	170
PN242	PT1/4"	42	185
PN260	PT1/4"	60	205

\* 1. The above unit without mentioning is all "mm".

## Connecting Motor-Iron Case

Connecting Motor-Iron Case  
(With Long Linking Shaft)

## Connecting Motor-Milling Case



Motor ( HP )	1/4		
Voltage	110V/220V or 220V/380V or 220V/440V or 208V/415V		
Pole	4P		
Time interval	Continuous		
Revolution	1400/1700rpm		
Frequency	50/60HZ		
Weight (kg)	7kg Connecting Motor-Iron Case	8kg (With Long Linking Shaft)	10kg Connecting Motor-Milling Case

P.S. Without TOP oil feed pump.

## Backward Type Pressure Gauge



Model	Specification	W	L	Weight(g)
327000	15kgf/cm <sup>2</sup>	42	38	53
327001	35kgf/cm <sup>2</sup>	42	38	53
*327400	35kgf/cm <sup>2</sup>	48	44	96

\*Oil charged type.

## Upward Type Pressure Gauge

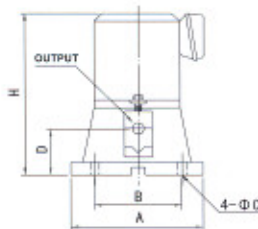


Model	Specification	W	L	H	Weight(g)
327200	15kgf/cm <sup>2</sup>	42	58	24	50
327201	35kgf/cm <sup>2</sup>	42	58	24	50
*327600	35kgf/cm <sup>2</sup>	49	62	26	86

\* Oil charged type.

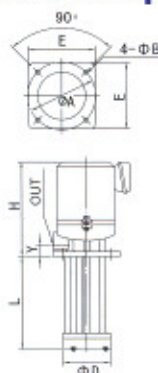
\* Order per specification is welcome

## Self-Absorbent Coolant Pump



Voltage	110V/220V or 220V/380V or 220V/440V or 208V/415V								
( HP )	H	Pumping water (2m)	Input	Output	A	B	ΦC	D	Weight (kg)
1/8	175	24L/min	PT3/8"	PT3/8"	142	99	8	48	6.5
1/4	235	60L/min	PT3/4"	PT1/2"	185	133	9	55	14.2
1/2	310	110L/min	PT1"	PT3/4"	165	133	10	70	18.5

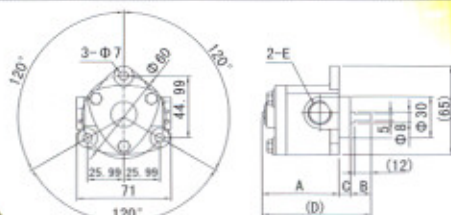
## Submerged Coolant Pump



Voltage	110V/220V or 220V/380V or 220V/440V or 208V/415V										
(HP)	H	A	ΦB	E	D	Y	Output	L	Pumping water (2m)	Weight (kg)	
1/8	150	128	8	125	90	18	PT3/8"	110/130/150/180/210	30L/min	6.4	
1/4	170	158	9	180	125	20	PT1/2"	150/180/210/270	70L/min	13.5	
1/2	230	170	9	180	140	20	PT3/4"	150	120L/min	19.4	
1/2	240	170	10	195	140	25	PT3/4"	175/210/300	120L/min	19.4	
1	295	170	10	195	150	27	PT1"	180/280	200L/min	24.2	

\* 1.The above unit without mentioning is all "mm".

### TOP Oil Feed Pump

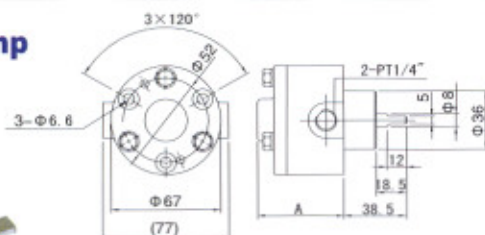


### TOP Oil Feed Pump

This pump is with simple structure, good self-suction, steady oil volume, low noise, and good high rotational speed quality. It's suitable for low pressure, continuous lubrication systems.

Model	Theoretic Output volume (cc/rev)	Output volume (L/min)		Max pressure (kgf/cm <sup>2</sup> )	Max .rpm	Bore(E)	(A)	B	C	(D)	Weight (kg)
		1500rpm	1800rpm								
TOP-11A	1.5	2.2	2.7	5	2000rpm	PT1/8"orPT1/4"	49	10.5	8	68	0.55
TOP-12A	2.5	3.7	4.5	5	1800rpm	PT1/4"	56	11.5	8	76	0.6
TOP-13A	4.5	6.7	7.5	5	1800rpm	PT3/8"	62	14	5	82	0.8

### 1RA Oil Feed Pump (Reversible)



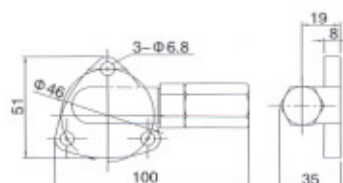
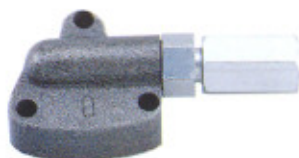
### 1RA Oil Feed Pump

This pump is with simple structure, good self-suction, steady oil volume, low noise, and good high rotational speed quality. It's suitable for low pressure, continuous lubrication systems.

The feature is that the inlet and output bores are fixed, but the rotational direction is changeable.

Model	Theoretic Output volume (cc/rev)	Output volume (L/min)		Max pressure (kgf/cm <sup>2</sup> )	Max .rpm	Bore(E)	(A)	Weight (kg)
		1500rpm	1800rpm					
1RA-2FS	1.8	2.7	3.24	5	2000rpm	PT1/4"	50	1.1
1RA-3FS	2.5	3.75	4.5	5	2000rpm	PT1/4"	55	1.2

### TOP Adjusting Valve

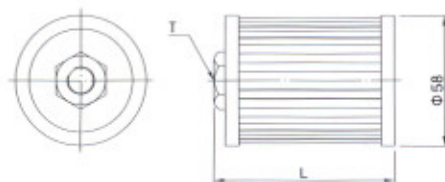


### TOP Adjusting Valve

The valve is a simple structure. It's easy and convenient to adjust the pressure. It should be used with a TOP oil feed pump to adjust the pipe pressure.

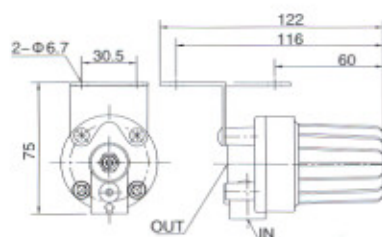
Pressure adjustment range: 0-5kgf/cm<sup>2</sup>.

### Oil Filter



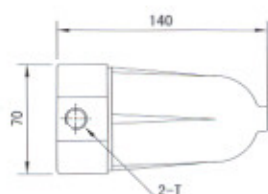
Model	T	L	Filter Precision (μ)	Weight (g)
PF25806	PS1/4"	60	196	125
PF25808	PS1/4"	80	196	140
PF25810	PS1/4"	100	196	150
PF35806	PS3/8"	60	196	120
PF35808	PS3/8"	80	196	130
PF35810	PS3/8"	100	196	135

### FL Filter



Model	Max.operation pressure		Max. output volume (L/min)	Filter Precision (μ)	IN × OUT	Weight (kg)
	(kgf/cm <sup>2</sup> )	bar				
FL-010025	30	30	2.5	10	PS1/8" × PS1/8" PS1/4" × PS1/4"	0.3
FL-025030	30	30	3.0	25		0.3
FL-125035	30	30	3.5	125		0.3

### Double Face Oil Filter

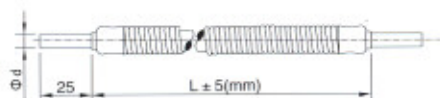


Model	T	Filter Precision (μ)	Weight (kg)
PR0202	PS1/4 × PS1/4	196	1.0
PR0303	PS3/8 × PS3/8	196	1.0

\* 1.The above unit without mentioning is all "mm".

Low pressure flexible hose: Model # PST. Pressure range 0-40kgf/cm<sup>2</sup>.  
 Middle pressure flexible hose: Model # PSM. Pressure range 40-80kgf/cm<sup>2</sup>.

### Flexible Hose



Model	Pipe dia	L ± 5mm	Model	Pipe dia	L ± 5mm
PST401	Φ4	100	PST601	Φ6	100
PST402	Φ4	200	PST602	Φ6	200
PST403	Φ4	300	PST603	Φ6	300
PST404	Φ4	400	PST604	Φ6	400
PST405	Φ4	500	PST605	Φ6	500
PST406	Φ4	600	PST606	Φ6	600
PST407	Φ4	700	PST607	Φ6	700
PST408	Φ4	800	PST608	Φ6	800
PST409	Φ4	900	PST609	Φ6	900
PST410	Φ4	1000	PST610	Φ6	1000
PST411	Φ4	1100	PST611	Φ6	1100
PST412	Φ4	1200	PST612	Φ6	1200
PST413	Φ4	1300	PST613	Φ6	1300

P.S. The length of flexible hose can be adjusted by customer's requirement.

### Flexible Nozzle



### Net Plastic Pipe



### Nozzle



T	L
PT1/4"	12' - 30' ( ± 2' )
PT3/8"	
PT1/2"	

The output has flat type and round type.

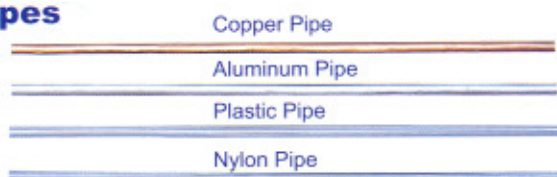
Size	3/8	1/2	5/8	1/4	3/4	5/16
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Packing per roll

Size	PT1/4	PT3/8	PT1/2
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The output has flat type and round type.

### Pipes



Nylon Pipe Spring

### Pipe Spring



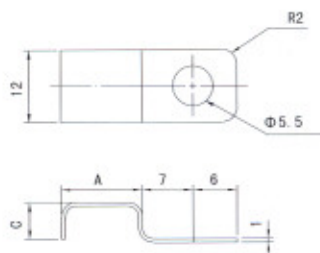
Item	Model	Pipe dia	Operation pressure
Copper pipe	CP	Φ4, Φ6, Φ8, Φ10, Φ12	70kgf/cm <sup>2</sup>
Aluminum pipe	AP	Φ4, Φ6, Φ8, Φ10	40kgf/cm <sup>2</sup>
Plastic pipe	PP	Φ4, Φ6, Φ8, Φ10	15kgf/cm <sup>2</sup>
Nylon pipe	NP	Φ4, Φ6, Φ8, Φ10	25kgf/cm <sup>2</sup>

• Special designs.

Item	Model	Pipe dia	L
Nylon pipe spring	NPS	Φ4, Φ6	1800 ± 5mm

The packing length be required by customers.

### Pipe Clip



Model	Pipe dia	No. of pipes	A	C	Weight (g)
PZ1104	Φ4	1	6	5	1.2
PZ1106	Φ6	1	8.5	7	2.6
PZ1108	Φ8	1	10	9	2.2
PZ1110	Φ10	1	12.5	11	3.6
PZ1204	Φ4	2	11	5	1.8
PZ1206	Φ6	2	14.5	7	2.8
PZ1304	Φ4	3	15	5	2.8

\* The above unit without mentioning is all "mm".