

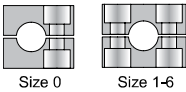




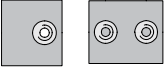
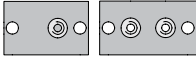

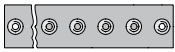
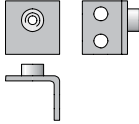

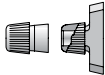
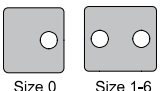
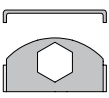

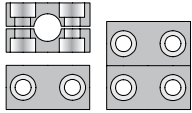







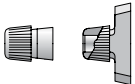

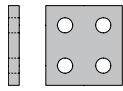
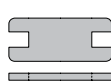

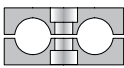






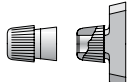





# Metric Clamps

P



ENGINEERING YOUR SUCCESS.

<p><b>Standard Series Normal Mechanical Stress</b></p>	<p><b>RAP/RAN/RAA</b> Clamp Halves</p>  <p>Size 0      Size 1-6</p> <p>P4</p>	<p><b>SLA</b> Slotted Screws</p>  <p>P5</p>	<p><b>SSLA</b> Hex Head Bolt</p>  <p>P5</p>	<p><b>ISA</b> Cap Screws</p>  <p>P5</p>	<p><b>ASA</b> Stacking Bolts</p>  <p>P6</p>
<p><b>APKA</b> Weld Plate-Short</p>  <p>Size 0      Size 1-6</p> <p>P5</p>	<p><b>APLA</b> Weld Plate-Long</p>  <p>Size 0      Size 1-6</p> <p>P5</p>	<p><b>APDA</b> Double Weld Plate</p>  <p>P5</p>	<p><b>APRA</b> Weld Plate-Strip</p>  <p>P6</p>	<p><b>APWA</b> Weld Plate Angled</p>  <p>P6</p>	<p><b>TS</b> Mounting Rail</p>  <p>P6</p>
<p><b>TMA</b> Lock Nut</p>  <p>P6</p>	<p><b>DPA</b> Top Plate</p>  <p>Size 0      Size 1-6</p> <p>P6</p>	<p><b>SBA</b> Locking Plate</p>  <p>P6</p>	<p><b>USA</b> Locking Washer</p>  <p>P6</p>	<p><b>Heavy Series High Mechanical Stress</b></p>	<p><b>RCP/RCN/RCA/RCPD</b> Clamp Halves</p>  <p>P7</p>
<p><b>SSC</b> Hex Head Bolts</p>  <p>P8</p>	<p><b>ASC</b> Stacking Bolts</p>  <p>P8</p>	<p><b>ISC</b> Cap Screws</p>  <p>P8</p>	<p><b>APC</b> Weld Plate</p>  <p>P8</p>	<p><b>APDC</b> Double Weld Plate</p>  <p>P8</p>	<p><b>APLC</b> Weld/Screw Plate</p>  <p>P8</p>
<p><b>TSC</b> Mounting Rail</p>  <p>P9</p>	<p><b>TMC</b> Lock Nut</p>  <p>P9</p>	<p><b>DPC</b> Top Plate</p>  <p>P9</p>	<p><b>DPDC</b> Double Top Plate</p>  <p>P9</p>	<p><b>SPC</b> Locking Plate</p>  <p>P9</p>	<p><b>USC</b> Locking Washer</p>  <p>P9</p>
<p><b>Twin Series Normal Mechanical Stress</b></p>	<p><b>RBP/RBN</b> Clamp Halves</p>  <p>P10</p>	<p><b>SSB</b> Hex Head Bolt</p>  <p>P10</p>	<p><b>ISB</b> Cap Screws</p>  <p>P10</p>	<p><b>ASB</b> Stacking Bolts</p>  <p>P11</p>	<p><b>APB</b> Weld Plate</p>  <p>P11</p>
<p><b>APRB</b> Strip Weld Plate</p>  <p>P11</p>	<p><b>TS</b> Mounting Rail</p>  <p>P11</p>	<p><b>TMB</b> Lock Nut</p>  <p>P11</p>	<p><b>SBB</b> Locking Plate</p>  <p>P11</p>	<p><b>DPB</b> Top Plate</p>  <p>P11</p>	<p><b>US</b> Locking Washer</p>  <p>P11</p>

## Metric Clamps

The Parker Metric Clamp system is designed for restraining tube, pipe and hose assemblies against unwanted, and potentially harmful effects of mechanical shock and vibration forces that are common in fluid power systems.

The clamping system is the most commonly overlooked aspect of fluid power system design. Failure to properly restrain the fluid conducting system can result in leakage, downtime and system malfunction, as well as significantly reduced life of tube, pipe and hose assemblies. With the Parker Metric Clamp system, the risk of problems resulting from mechanical shock and vibration can be significantly reduced.

## How Metric Clamps Work

The Metric Clamp system has two primary methods for mounting: weld plates and mounting rails. Clamps may be mounted to secure a single layer of tube or stacked for securing multiple layers.

Clamps should be mounted to a rigid structure for optimum performance. Clamping tube, pipe or hose assemblies together without mounting them to a rigid structure, often called "floating clamps," does not provide adequate support.

Proper design of a clamping system requires that the clamps be positioned appropriately on the tube, pipe or hose assemblies. See the Assembly and Installation section of the catalog for more information on clamp location and spacing.

### Weld Plate Mounting (Fig. P1)

The weld plate mounting system allows the user to attach a single clamp assembly to a structure of similar material (steel to steel, etc) by welding the components together. Once the weld plate is attached to a structure, one clamp half can be placed onto the weld plate, followed by the tube, pipe or hose assembly. Next, the second plastic clamp half can be placed on the tube, pipe or hose assembly, followed by the cover plate. To complete the assembly, the Hex Head attachment bolts are inserted into the assembly and tightened.

### Mounting Rail Mounting (Fig. P2)

Use of a mounting rail is another way to assemble the clamping system components onto a support structure. Using a mounting rail allows multiple clamps to be mounted side-by-side for restraining a group of tube, pipe, or hose assemblies. The mounting rail also provides the ability to move the location of the clamps in one direction for easier alignment. The rail can be attached to a support structure by welding or bolting. Once the mounting rail is in place, rail nuts can be slid into the rail. The first clamp half, followed by the tube, pipe or hose assembly, can then be installed over the corresponding rail nuts. After this, the second clamp half, the cover plate and the hex head attachment bolts can be installed to complete the assembly.



Fig. P1 – Weld Plate Assembly



Fig. P2 – Mounting Rail Assembly

### Stacking (Fig. P3)

A primary feature of the Metric Clamp system is its ability to accommodate stacking of a series of clamps to various heights, thus requiring a smaller footprint for mounting. To do this, simply use the stacking bolts to mount the first clamp assembly, then install a stacking plate over the first clamp and stacking bolts. The second clamp assembly can then be placed over the first clamp assembly. Complete the mounting by assembling a cover plate and using the hex head bolts to tighten the upper clamp assembly. **Note: When stacking, the clamps must be from the same series and group.**



Fig. P3 – Stacked Assembly

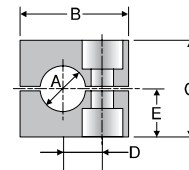
## Reference Locations

**Assembly and Installation:** Please refer to Section S for the assembly and installation instructions for Metric Clamps.

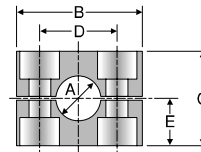
**RAP / RAN / RAA**

Clamp Halves

TUBE FITTING PART #	GROUP #	A Metric Tube Size	A Inch Pipe Size	A Inch Tube Size	B (mm)	C (mm)	D (mm)	E (mm)
RAP006X		6						
RAP006.4X		6.4		1/4				
RAP008X		8		5/16				
RAP009.5X		9.5		3/8				
RAP010X		10	1/8					
RAP012X	0	12			28	27	12.5	13.5
RAP106X		6						
RAP106.4X		6.4		1/4				
RAP108X		8		5/16				
RAP109.5X		9.5		3/8				
RAP110X		10	1/8					
RAP112X	1	12			34	27	20	13.5
RAP212.7X		12.7		1/2				
RAP213.5X		13.5	1/4					
RAP214X		14						
RAP215X		15						
RAP216X		16		5/8				
RAP217.2X		17.2	3/8					
RAP218X	2	18			40	33	26	16.5
RAP319X		19		3/4				
RAP320X		20						
RAP321.3X		21.3	1/2					
RAP322X		22						
RAP323X		23						
RAP325X	3	25		1	48	35	33	17.5
RAP426.9X		26.9	3/4					
RAP428X		28						
RAP430X	4	30			57	42	40	21
RAP532X		32		1 1/4				
RAP533.7X		33.7	1					
RAP535X		35						
RAP538X		38		1 1/2				
RAP540X		40						
RAP542X	5	42	1 1/4		70	58	52	29
RAP644.5X		44.5		1 3/4				
RAP645X		45						
RAP648X		48	1 1/2					
RAP650X		50						
RAP650.8X		50.8		2				
RAP652X		52						
RAP655X	6	55			86	66	66	33
RAP657X		57		2 1/4				



Group 0



Groups 1-6

**Material codes for clamp halves:**

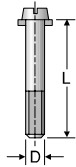
Polypropylene - RAP  
inside plain - RAPG (for hose)  
Polyamide 6 - RAN (Nylon)  
inside plain - RANG (Nylon) (for hose)  
Aluminum - RAA (Group 1 to 6 only)

Dimensions and pressures for reference only, subject to change.

**SLA**

Slotted Screws

TUBE FITTING PART #	GROUP #	D (mm)	L (mm)
SLA0X	0,1	M6 x 1	20
SLA2X	2	M6 x 1	25
SLA3X	3	M6 x 1	30
SLA4X	4	M6 x 1	35
SLA5X	5	M6 x 1	50
SLA6X	6	M6 x 1	60

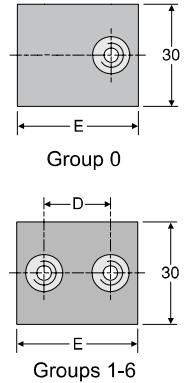


**APKA**

Weld Plate – Short

TUBE FITTING PART #	GROUP #	D (mm)	E (mm)
APKA0X	0	—	30
APKA1X	1	20	36
APKA2X	2	26	42
APKA3X	3	33	50
APKA4X	4	40	59
APKA5X	5	52	72
APKA6X	6	66	88

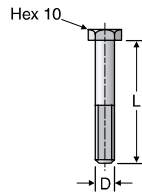
Thickness 3 mm



**SSLA**

Hex Head Bolt

TUBE FITTING PART #	GROUP #	D (mm)	L (mm)
SSLA0X	0,1	M6 x 1	30
SSLA2/SSB1X	2	M6 x 1	35
SSLA3X	3	M6 x 1	40
SSLA4X	4	M6 x 1	45
SSLA5X	5	M6 x 1	60
SSLA6X	6	M6 x 1	70

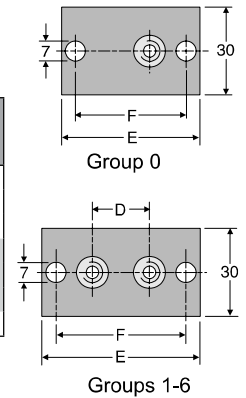


**APLA**

Weld Plate – Long

TUBE FITTING PART #	GROUP #	D (mm)	E (mm)	F (mm)
APLA0X	0	—	58	44
APLA1X	1	20	64	50
APLA2X	2	26	70	56
APLA3X	3	33	78	64
APLA4X	4	40	87	73
APLA5X	5	52	100	86
APLA6X	6	66	116	100

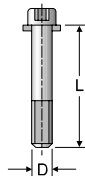
Thickness 3 mm



**ISA**

Cap Screws

TUBE FITTING PART #	GROUP #	D (mm)	L (mm)
ISA0X	0,1	M6 x 1	20
ISA2X	2	M6 x 1	25
ISA3X	3	M6 x 1	30
ISA4X	4	M6 x 1	35
ISA5X	5	M6 x 1	50
ISA6X	6	M6 x 1	60

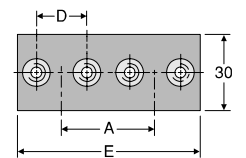


**APDA**

Double Weld Plate

TUBE FITTING PART #	GROUP #	A (mm)	D (mm)	E (mm)
APDA0X	0	30	—	61
APDA1X	1	35	20	69
APDA2X	2	43	26	86
APDA3X	3	52	33	104
APDA4X	4	60	40	117
APDA5X	5	75	52	145
APDA6X	6	90	66	176

Thickness 3 mm

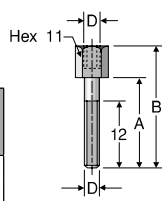


Dimensions and pressures for reference only, subject to change.

**ASA**

Stacking Bolts

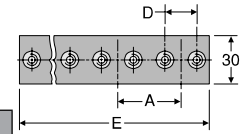
TUBE FITTING PART #	GROUP #	A (mm)	B (mm)	D (mm)
ASA0X	0,1	20	34	M6 x 1
ASA2X	2	25	39	M6 x 1
ASA3X	3	30	44	M6 x 1
ASA4X	4	35	49	M6 x 1
ASA5X	5	50	64	M6 x 1
ASA6X	6	60	74	M6 x 1



**APRA**

Weld Plate – Strip

TUBE FITTING PART #	GROUP #	D (mm)	A (mm)	E (mm)	NUMBER OF CLAMPS
APRA0X	0	—	30	298	10
APRA1X	1	20	35	349	10
APRA2X	2	26	43	427	10
APRA3X	3	33	52	516	10
APRA4X	4	40	60	297	5
APRA5X	5	52	75	370	5
APRA6X	6	66	90	446	5

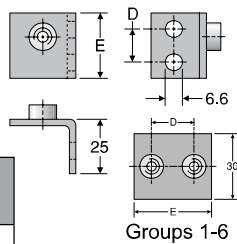


Thickness 3 mm

**APWA**

Weld Plate – Angled

TUBE FITTING PART #	GROUP #	D (mm)	E (mm)
APWA0X	0	14	30
APWA1X	1	20	36
APWA2X	2	26	42
APWA3X	3	33	50
APWA4X	4	40	59
APWA5X	5	52	72
APWA6X	6	66	88

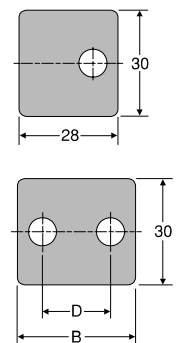


Thickness 3 mm

**DPA**

Top Plate

TUBE FITTING PART #	GROUP #	B (mm)	D (mm)
DPA0X	0	0	—
DPA1X	1	34	20
DPA2X	2	40	26
DPA3X	3	48	33
DPA4X	4	57	40
DPA5X	5	70	52
DPA6X	6	86	66

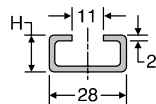


Thickness 3 mm

**TS**

Mounting Rail

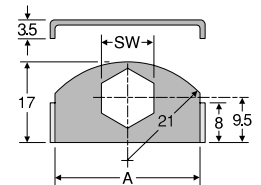
TUBE FITTING PART #	GROUP #	H (mm)	LENGTH (meter)
TS11A/B1X	ALL	11	1
TS14A/B1X	ALL	14	1
TS30A/B1X	ALL	30	1
TS11A/B2X	ALL	11	2
TS14A/B2X	ALL	14	2
TS30A/B2X	ALL	30	2



**SBA**

Locking Plate

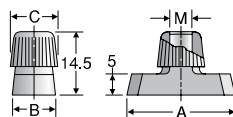
TUBE FITTING PART #	GROUP #	A (mm)	SW (mm)
SBAX	ALL	30	11



**TMA**

Lock Nut

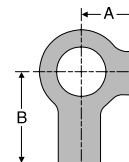
TUBE FITTING PART #	GROUP #	A (mm)	B (mm)	C (mm)	M (mm)
TMA/TMB1VERZX	ALL	25.4	10.4	12	M6 X 1



**USA**

Locking Washer

TUBE FITTING PART #	GROUP #	A (mm)	B (mm)
USA/IS1X	ALL	9	18

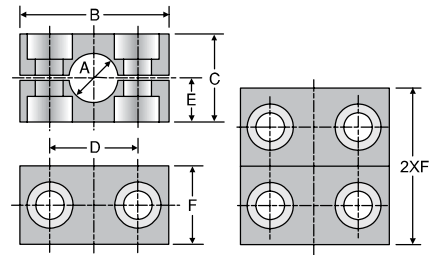


Dimensions and pressures for reference only, subject to change.

**RCP / RCN / RCA / RCPD**

Clamp Halves

TUBE FITTING PART #	GROUP #	A Metric Tube Size	A Inch Pipe Size	A Inch Tube Size	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
RCP108X		8		5/16					
RCP110X		10	1/8						
RCP112X		12							
RCP113.5X	1	13.5	1/4						
RCP114X		14			55	32	33	16	30
RCP115X		15							
RCP116X		16		5/8					
RCP117.2X		17.2	3/8						
RCP118X		18							
RCP220X		20							
RCP221.3X		21.3	1/2						
RCP222X		22							
RCP223X	2	23			70	48	45	24	30
RCP225X		25		1					
RCP226.9X		26.9	3/4						
RCP228X		28							
RCP330X		30							
RCP332X		32		1 1/4					
RCP333.7X	3	33.7	1						
RCP335X		35			85	60	60	30	30
RCP338X		38		1 1/2					
RCP340X		40							
RCP342X		42	1 1/4						
RCP438X		38		1 1/2					
RCP440X		40							
RCP442X		42	1 1/4						
RCP445X		45							
RCP448.3X	4	48.3	1 1/2						
RCP450X		50			115	90	90	45	45
RCP451X		51		2					
RCP452X		52							
RCP455X		55							
RCP457X		57		2 1/4					
RCP460.3X		60.3	2						
RCP463X		63		2 1/2					
RCP465X		65							
RCP470X		70							
RCP570X		70							
RCP576.1X		76.1	2 1/2	3					
RCP580X	5	80			152	120	122	60	60
RCP582.5X		82.5		3 1/4					
RCP588.9X		88.9	3	3 1/2					
RCP690X		90							
RCP6101.6X	6	101.6	3 1/2	4					
RCP6108X		108		4 1/4	205	170	168	85	80
RCP6114.3X		114.3	4	4 1/2					
RCP6127X		127		5					
RCP7127X		127		5					
RCP7133X		133		5 1/4					
RCP7140X		140		5 1/2					
RCP7152.4X	7	152.4	5 1/2	6	250	200	205	100	90
RCP7159X		159		6 1/4					
RCP7165.1X		165.1		6 1/2					
RCP7168.3X		168.3		6 5/8					
RCP8168.3X		168.3		6 5/8					
RCP8177.8X	8	177.8		7	320	270	265	135	120
RCP8193.7X		193.7		7 5/8					
RCP8219.1X		219.1	8	8 5/8					



RCP

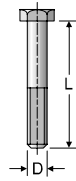
RCPD  
(2 pairs of RCP)

**Material codes for clamp halves:**  
 Polypropylene - RCP  
 inside plain - RCPG (for hose)  
 Polyamide 6 - RCN  
 Aluminum - RCA

Dimensions and pressures for reference only, subject to change.

**SSC**

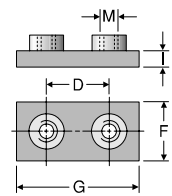
Hex Head Bolts



TUBE FITTING PART #	GROUP #	D (mm)	L (mm)
SSC1X	1	M10 x 1	45
SSC2X	2	M10 x 1	60
SSC3X	3	M10 x 1	70
SSC4X	4	M12 x 1.5	100
SSC5X	5	M16 x 2	130
SSC6X	6	M20 x 2	190
SSC7X	7	M24 x 2	220
SSC8X	8	M30 x 2	300

**APC**

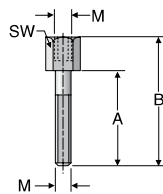
Weld Plate



TUBE FITTING PART #	GROUP #	D (mm)	F (mm)	G (mm)	I (mm)	M (mm)
APC1X	1	33	30	73	8	M10 x 1
APC2X	2	45	30	85	8	M10 x 1
APC3X	3	60	30	100	8	M10 x 1
APC4X	4	90	45	140	10	M12 x 1.5
APC5X	5	122	60	180	10	M16 x 2
APC6X	6	168	80	225	15	M20 x 2
APC7X	7	205	90	270	15	M24 x 2
APC8X	8	265	120	340	25	M30 x 2

**ASC**

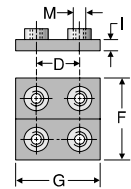
Stacking Bolts



TUBE FITTING PART #	GROUP #	M (mm)	SW (mm)	A (mm)	B (mm)
ASC1X	1	M10 x 1	15	25	51
ASC2X	2	M10 x 1	15	40	66
ASC3X	3	M10 x 1	15	50	76
ASC4X	4	M12 x 1.5	17	85	112
ASC5X	5	M16 x 2	21	110	146
ASC6X	6	M20 x 2	27	155	206
ASC7X	7	M24 x 2	30	185	245
ASC8X	8	M30 x 2	36	250	330

**APDC**

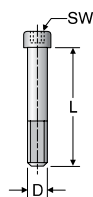
Double Weld Plate



TUBE FITTING PART #	GROUP #	D (mm)	F (mm)	G (mm)	I (mm)	M (mm)
APDC1X	1	33	60	73	8	M10 x 1
APDC2X	2	45	60	85	8	M10 x 1
APDC3X	3	60	60	100	8	M10 x 1
APDC4X	4	90	90	140	10	M12 x 1.5
APDC5X	5	122	120	180	10	M16 x 2
APDC6X	6	168	160	225	15	M20 x 2
APDC7X	7	205	180	270	15	M24 x 2
APDC8X	8	265	240	340	25	M30 x 2

**ISC**

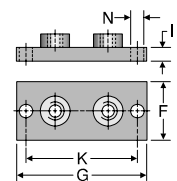
Cap Screws



TUBE FITTING PART #	GROUP #	D (mm)	L (mm)	SW (mm)
ISC1X	1	M10 x 1	45	8
ISC2X	2	M10 x 1	60	8
ISC3X	3	M10 x 1	70	8
ISC4X	4	M12 x 1.5	100	10
ISC5X	5	M16 x 2	130	14
ISC6X	6	M20 x 2	190	17
ISC7X	7	M24 x 2	220	19
ISC8X	8	M30 x 2	300	22

**APLC**

Weld / Screw Plate



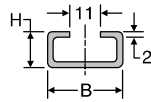
TUBE FITTING PART #	GROUP #	F (mm)	G (mm)	I (mm)	K (mm)	N (mm)
APLC1X	1	30	113	8	85	11
APLC2X	2	30	125	8	97	11
APLC3X	3	30	140	8	112	11
APLC4X	4	45	190	10	160	14
APLC5X	5	60	240	10	205	18
APLC6X	6	80	310	15	270	22
APLC7X	7	90	370	15	320	26
APLC8X	8	120	450	25	390	33

Dimensions and pressures for reference only, subject to change.



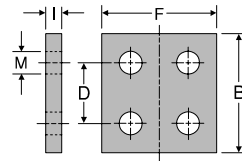
Metric Clamps  
Heavy Series – High Mechanical Stress

**TSC**  
Mounting Rail



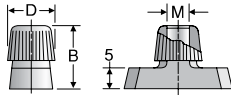
TUBE FITTING PART #	GROUP #	B (mm)	H (mm)	LENGTH (meter)
TSC1X	ALL	40	22	1
TSC2X	ALL	40	22	2

**DPDC**  
Double Top Plate



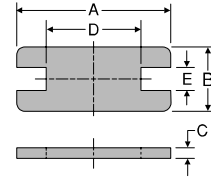
TUBE FITTING PART #	GROUP #	B (mm)	D (mm)	F (mm)	I (mm)	M (mm)
DPDC1X	1	55	33	60	8	11
DPDC2X	2	70	45	60	8	11
DPDC3X	3	85	60	60	8	11
DPDC4X	4	115	90	90	10	14
DPDC5X	5	152	122	120	10	18
DPDC6X	6	205	168	160	15	22
DPDC7X	7	250	205	180	15	26
DPDC8X	8	320	265	240	25	33

**TMC**  
Lock Nut



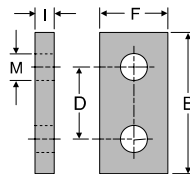
TUBE FITTING PART #	GROUP #	B (mm)	D (mm)	M (mm)
TMC1X	1-3	20	17.8	M10 x 1
TMC4X	4	23	19.8	M12 x 1.5

**SPC**  
Locking Plate



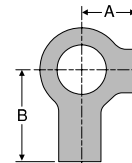
TUBE FITTING PART #	GROUP #	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
SPC1X	1	55	30	8	14	15.5
SPC2X	2	70	30	8	26	15.5
SPC3X	3	85	30	8	41	15.5
SPC4X	4	115	45	10	69	17.5
SPC5X	5	152	60	10	97	21.5
SPC6X	6	205	80	15	137	27.5
SPC7X	7	250	90	15	169	30.5
SPC8X	8	320	120	25	219	36.5

**DPC**  
Top Plate



TUBE FITTING PART #	GROUP #	B (mm)	D (mm)	F (mm)	I (mm)	M (mm)
DPC1X	1	55	33	30	8	11
DPC2X	2	70	45	30	8	11
DPC3X	3	85	60	30	8	11
DPC4X	4	115	90	45	10	14
DPC5X	5	152	122	60	10	18
DPC6X	6	205	168	80	15	22
DPC7X	7	250	205	90	15	26
DPC8X	8	320	265	120	25	33

**USC**  
Locking Washer

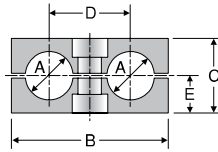


TUBE FITTING PART #	GROUP #	A (mm)	B (mm)
USC1X	1,2,3	13	22
USC4X	4	15	28
USC5X	5	18	32
USC6X	6	21	36
USC7X	7	25	42
USC8X	8	32	52

Dimensions and pressures for reference only, subject to change.

**RBP / RBN**

Clamp Halves

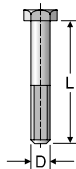


**Material codes for clamp halves:**  
 Polypropylene - RBP  
 inside plain - RBPG (for hose)  
 Polyamide 6 - RBN  
 Width 30 mm

TUBE FITTING PART #	GROUP #	A Metric Tube Size	A Inch Pipe Size	A Inch Tube Size	B (mm)	C (mm)	D (mm)	E (mm)
RBP106X	1	6						
RBP106.4X		6.4		1/4				
RBP108X		8		5/16	36	27	20	13.5
RBP109.5X		9.5		3/8				
RBP110X		10	1/8					
RBP112X		12						
RBP212.7X	2	12.7		1/2				
RBP213.5X		13.5	1/4					
RBP214X		14						
RBP215X		15		5/8	53	26	29	13
RBP216X		16						
RBP217.2X		17.2	3/8					
RBP218X		18						
RBP319X	3	19		3/4				
RBP320X		20						
RBP321.3X		21.3	1/2		67	37	36	18.5
RBP322X		22						
RBP325X		25		1				
RBP426.9X	4	26.9	3/4					
RBP428X		28			82	42	45	21
RBP430X		30						
RBP532X	5	32		1 1/4				
RBP533.7X		33.7	1					
RBP535X		35			106	54	56	27
RBP538X		38		1 1/2				
RBP542X		42	1 1/4					

**SSB**

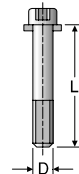
Hex Head Bolt



TUBE FITTING PART #	GROUP #	D (mm)	L (mm)	MATERIAL
SSLA2/SSB1X	1	M6 x 1	35	•
SSB2X	2	M8 x 1	35	•
SSB3X	3	M8 x 1	45	•
SSB4X	4	M8 x 1	50	•
SSB5X	5	M8 x 1	60	•

**ISB**

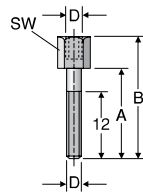
Cap Screws



TUBE FITTING PART #	GROUP #	D (mm)	L (mm)	MATERIAL
ISB1X	1	M6 x 1	35	•
ISB2X	2	M8 x 1	35	•
ISB3X	3	M8 x 1	45	•
ISB4X	4	M8 x 1	50	•
ISB5X	5	M8 x 1	60	•

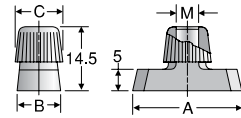
Dimensions and pressures for reference only, subject to change.

**ASB**  
Stacking Bolts



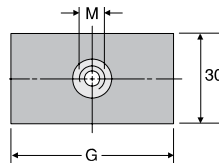
TUBE FITTING PART #	GROUP #	D (mm)	A (mm)	B (mm)	SW (mm)
ASB1X	1	M6 x 1	20	34	11
ASB2X	2	M8 x 1	20	33	12
ASB3X	3	M8 x 1	29	44	12
ASB4X	4	M8 x 1	34	49	12
ASB5X	5	M8 x 1	47	62	12

**TMB**  
Lock Nut



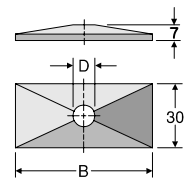
TUBE FITTING PART #	GROUP #	A (mm)	B (mm)	C (mm)	M (mm)
TMA/TMB1VERZX	1	25.4	10.4	12	M6 x 1
TMB2X	2-5	25.4	10.4	12	M8 x 1

**APB**  
Weld Plate



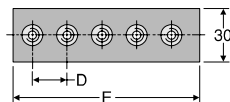
THICKNESS	TUBE FITTING PART #	GROUP #	G (mm)	M (mm)
3	APB1X	1	37	M6 x 1
5	APB2X	2	55	M8 x 1
5	APB3X	3	70	M8 x 1
5	APB4X	4	85	M8 x 1
5	APB5X	5	110	M8 x 1

**DPB**  
Top Plate



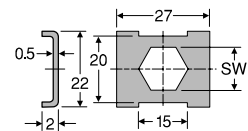
TUBE FITTING PART #	GROUP #	B (mm)	D (mm)
DPB1X	1	34	6.6
DPB2X	2	51	8.6
DPB3X	3	64	8.6
DPB4X	4	78	8.6
DPB5X	5	102	8.6

**APRB**  
Weld Plate – Strip



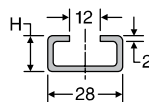
THICKNESS	TUBE FITTING PART #	GROUP #	D (mm)	E (mm)
3	APRB1X	1	40	196
5	APRB2X	2	58	288
5	APRB3X	3	72	358
5	APRB4X	4	90	446
5	APRB5X	5	112	558

**SBB**  
Locking Plate



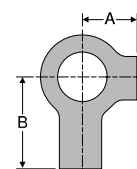
TUBE FITTING PART #	GROUP #	SW (mm)
SBB1X	1	11
SBB2X	2-5	12

**TS**  
Mounting Rail



TUBE FITTING PART #	GROUP #	B (mm)	H (mm)	LENGTH (meter)
TS11A/B1X	ALL	28	11	1
TS14A/B1X	ALL	28	14	1
TS30A/B1X	ALL	28	30	1
TS11A/B2X	ALL	28	11	2
TS14A/B2X	ALL	28	14	2
TS30A/B2X	ALL	28	30	2

**US**  
Locking Washer



TUBE FITTING PART #	GROUP #	A (mm)	B (mm)
USA/USB1X	1	9	18
USB2X	2-5	11	20

Dimensions and pressures for reference only, subject to change.