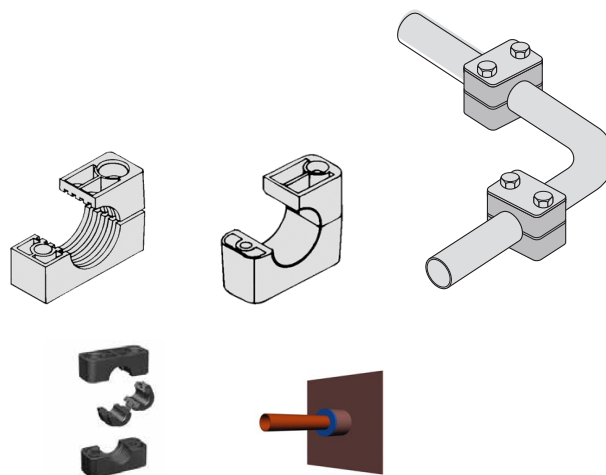


PIPE -TUBE CLAMPS

BULKHEAD PLUGS

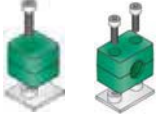
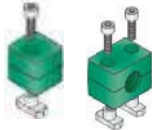
CLAMPS OVERVIEW.....	260-261
CLAMPS Installation and assembling	262-263
CLAMPS Standard-Light Series – Components	264-269
CLAMPS Twin Series – Components	269-271
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CLAMPS with rubber insert	276
Other clamps	277
KPS PLUG SYSTEM for bulkhead.....	278-282



PIPE -TUBE CLAMPS

OVERVIEW

Standard(Ligth) serie

Complete Clamp	Clamp with rail nut	Clamp with Stacking bolts	Clamp Body		
					
Weld Plate	Twin Weld Plate	Angled Weld Plate	Mounting Rail	Socket Cap Screw	Stacking Bolt
					
Elongated Weld Plate	Group Weld Plate	Cover Plate	Rail Nut	Hexagon Head Bolt	Safety Locking Plate
					

Heavy serie

Complete Clamp	Clamp with rail nut	Clamp with Stacking bolts			
					
Clamp Body	Cover Plate	Weld Plate for Double Clamps	Cover Plate for Double Clamps	Hexagon Head Bolt	Mounting Rail
					
Weld Plate	Elongated Weld Plate	Elongated Weld Plate for Double Clamps	Safety Locking Plate	Stacking Bolt	Rail Nut
					

Twin serie

Clamp Body	Cover Plate	Mounting Rail	Hexagon Head Bolt	Safety Locking Plate
				
Weld Plate	Group Weld Plate	Rail Nut	Stacking Bolt	
				

PIPE -TUBE CLAMPS

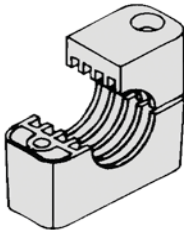
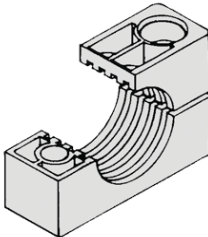
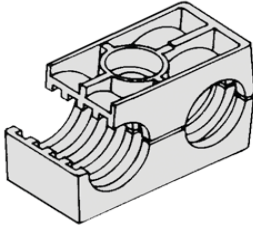
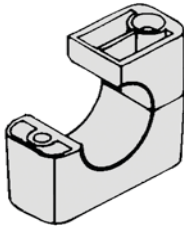
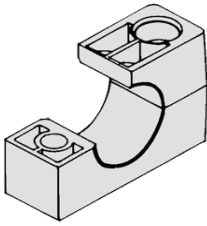
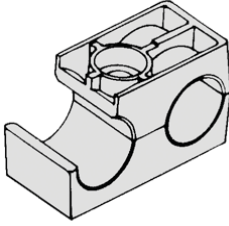
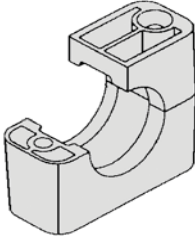
OVERVIEW

Body material



Material Code	PAPR	RAPA	RAAR	RAVG
Basic Material	Polypropylene	Polyamide	Aluminium	RubberElastomer
Standard Colour	Green	Black	Natural/grey	Black
Thermal Properties				
Temperature Resistance (Min ... Max)	-30 °C ... +90 °C	-40 °C ... +120 °C / (Brief exposure up to +140 °C)	up to +300 °C	-40 °C ... +125 °C

Body Types

Ligth-Series	Heavy-Series	Twin-Series
 Standard design – profiled inside –	 Standard design – profiled inside –	 Standard design – profiled inside –
 S-design – smooth inside –	 S-design – smooth inside –	 S-design smooth inside –
 RI-design for rubber inserts	 RI-design for rubber inserts	

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FLANGES

PIPES & TUBES

CLAMPS

VALVES

BITE TYPE FITTINGS

HP HOSES

QUICK COUPL.

TEST POINTS

ADAPTORS

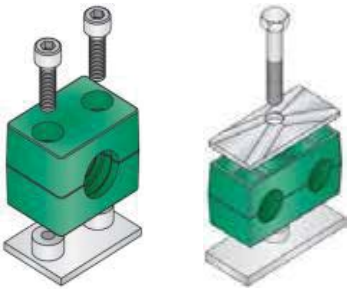
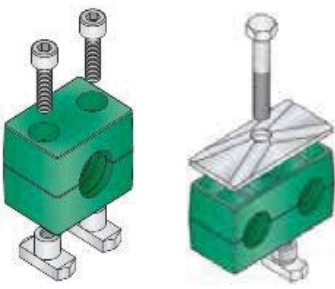
MACHINES

OTHER PRODUCTS

PIPE -TUBE CLAMPS

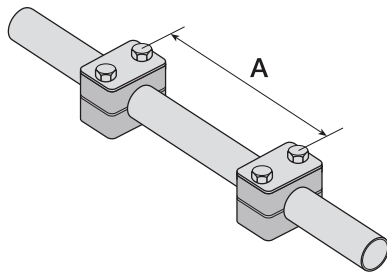
Installation - Assembling

Basic Installation Possibilities

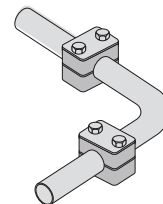
Installation on Welding Plates	Installation on Mounting Rails	Multi-Level (Stacking)Assembly
HP clamps are available for the following Series: • Standard-Series • Heavy-Series • Twin-Series • Special Clamps For best alignment of HP clamps it is recommended to mark their location first. Weld plates, push on bottom half of clamp, install pipe, mount top half of clamp and cover plate and bolt unit together. In order to avoid damage to the clamp bodies it is recommended to mount the plastic clamp bodies after having welded the weld plates. 	HP mounting rails can be used with the following Series: • Standard-Series • Heavy-Series • Twin-Series • Special Clamps Mounting rails are available in four different height sizes. The rails are either welded or bolted to the supporting construction. For Standard- and Twin-Series insert hexagon rail nut and turn to lock. For Heavy-Series slide in rail nut. Push on bottom half of clamp, install pipe, mount top half of clamp and cover plate and bolt unit together. Clamp units can be adjusted before being firmly bolted. 	HP multi-level pipe clamps permit easy stacking of several tubes or pipes of the group. (Twin-Clamps group 2 – 5 allow stacking of different group sizes.) The clamps are connected by stacking bolts (AF). Safety plates (SIG/SIP/SI) inserted between the clamps prevent stacking bolts from turn-ing. Stacking assembly can be fitted to weld plates or to rails. 

PIPE -TUBE CLAMPS

Installation - Assembling



Outside pipe diameter(mm)	Clamp pitch A (m)
6.0–12.7	1.0
12.7–22.0	1.2
22.0–32.0	1.5
32.0–38.0	2.0
38.0–57.0	2.7
57.0–75.0	3.0
75.0–76.1	3.5
76.1–88.9	3.7
88.9–102.0	4.0
102.0–114.0	4.5
114.0–168.0	5.0
168.0–219.0	6.0

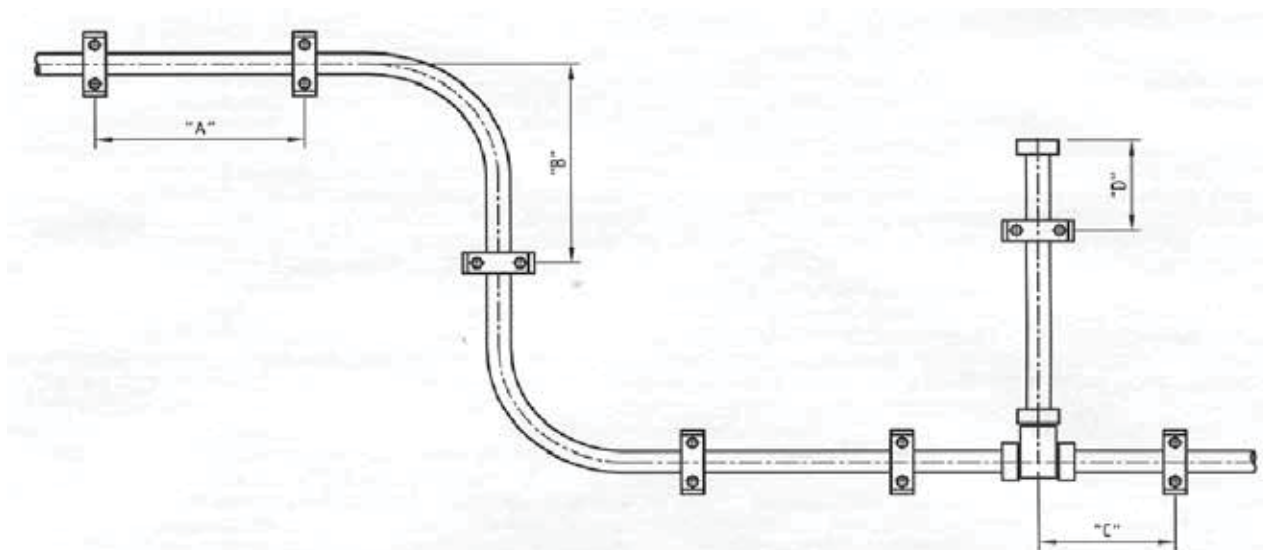


Note !!

Bended pipes must be fixed with pipe clamps immediately in front of and after each bend.

All pipes must also be fixed with pipe clamps after fittings and or flange connections.

Recommended distances prefabricated pipe assemblies

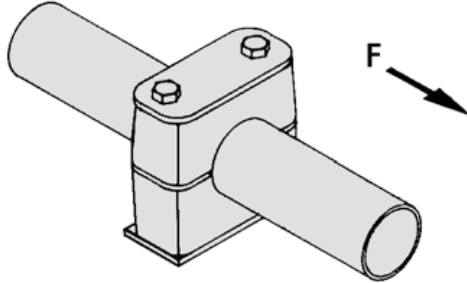


PIPE SIZE	"A" max straight pipe clamp to clamp	"B" max pipe bend to clamp to clamp	"C" max inline component to clamp	"D" max pipe end to clamp
½"-1" 15-35mm	1,8m	1,0m	0,3m	0,15m
1¼"- 2" 38-60mm	2,5m	1,2m	0,3m	0,15m
2½"- 4" 66-115mm	3,0m	1,5m	0,6m	0,3m
5" ++ 130mm ++	4,9m	1,8m	0,6m	0,3m

PIPE -TUBE CLAMPS

Installation - Assembling

Tightening Torques - Maximum Loads in Pipe Direction



Standard-Series (acc. to DIN 3015)							
Clamp Group	Hexagon Head Bolt DIN 931/933	Polypropylene		Polyamide		Aluminum	
		Tightening Torque (Nm)	Max. load in pipe direction F (kN)	Tightening Torque (Nm)	Max. load in pipe direction F (kN)	Tightening Torque (Nm)	Max. load in pipe direction F (kN)
0	M6	8	0.6	10	0.6	12	3.5
1		8	1.1	10	0.7	12	4.2
2		8	1.3	10	0.8	12	4.3
3		8	1.4	10	1.6	12	4.9
4		8	1.5	10	1.7	12	5.0
5		8	1.9	10	2.0	12	7.3
6		8	2.0	10	2.5	12	8.9

Heavy-Series (acc. to DIN 3015)							
Clamp Group	Hexagon Head Bolt DIN 931/933	Polypropylene		Polyamide		Aluminum	
		Tightening Torque (Nm)	Max. load in pipe direction F (kN)	Tightening Torque (Nm)	Max. load in pipe direction F (kN)	Tightening Torque (Nm)	Max. load in pipe direction F (kN)
3S	M10	12	1.6	20	4.2	30	12.1
4S		12	2.9	20	4.5	30	15.1
5S		15	3.3	25	5.1	35	15.5
6S	M12	30	8.2	40	9.3	55	29.4
7S	M16	45	11.0	55	25.8	120	34.9
8S	M20	80	14.0	150	21.0	220	70.6
9S	M24	110	28.0	200	32.0	250	50.0
10S	M30	180	40.0	350	48.0	500	84.5
11S		200	119.0	370	125.0	500	181.5
12S		270	168.0	450	180.0	600	244.5

Twin-Series (acc. to DIN 3015)					
Clamp Group	Hexagon Head Bolt DIN 931/933	Polypropylene		Polyamide	
		Tightening Torque (Nm)	Max. load in pipe direction F (kN)	Tightening Torque (Nm)	Max. load in pipe direction F (kN)
1D	M6	5	0.9	5	0.9
2D	M8	12	2.1	12	2.2
3D		12	1.9	12	2.0
4D		12	2.7	12	2.9
5D		8	1.7	8	2.5

All tightening torques and max. loads in pipe direction refer to clamps with cover plates and hexagon head bolts acc. to DIN 931/933.

Sliding starts when the shown values (F) are reached.

PYPLOK

FLANGES

PIPES & TUBES

CLAMPS

VALVES

BITE TYPE FITTINGS

HP HOSES

QUICK COUPL.

TEST POINTS

ADAPTORS

MACHINES

OTHER PRODUCTS

PIPE -TUBE CLAMPS

Standard (Ligth) serie

Order codes

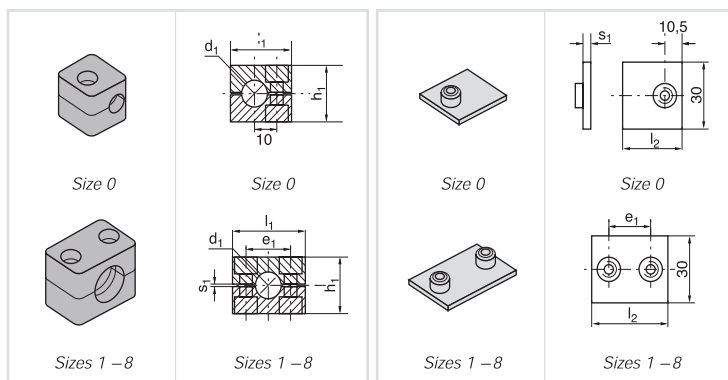
for clamp-halves:

Polypropylene **RAPR**
inside smooth **RAPS**

Polyamide 6 **RANR**
inside smooth **RANG**

Rubber **RAVG**
Aluminium **RAARⁿ**

Replace standard abbreviation
RAPR in column "clamp-halves"
as required.



Clamp size	O.D. mm	Tube NB	Inch O.D.	1 part 2 clamp-halves RAPR	2 clamp-halves RAPR-... l ₁ h ₁ e ₁ s ₁	Welding plate, short APK-	Welding plate, short APK- e ₁ l ₂ s ₁
0	6	G 1/8	1/4	RAPR-006 RAPR-006,4 RAPR-008 RAPR-009,5 RAPR-010 RAPR-012	28 27 — 0,6	APK- 0	— 30 3
	6,4						
	8						
	9,5						
	10						
1	12	G 1/8	5/16	RAPR-106 RAPR-106,4 RAPR-108 RAPR-109,5 RAPR-110 RAPR-112	34 27 20 0,6	APK- 1	20 36 3
	6						
	6,4						
	8						
	9,5						
2	10	G 1/4	3/8	RAPR-212,7 RAPR-213,5 RAPR-214 RAPR-215 RAPR-216 RAPR-217,2 RAPR-218	40 33 26 0,8	APK- 2	26 42 3
	12						
	12,7						
	13,5						
	14						
3	15	G 3/8	5/8	RAPR-319 RAPR-320 RAPR-321,3 RAPR-322 RAPR-323 RAPR-325	48 35 33 1	APK- 3	33 50 3
	16						
	17,2						
	18						
	19						
4	20	G 1/2	3/4	RAPR-426,9 RAPR-428 RAPR-430	57 42 40 1,2	APK- 4	40 59 3
	21,3						
	22						
	23						
	25						
5	26,9	G 3/4	1	RAPR-532 RAPR-533,7 RAPR-535 RAPR-538 RAPR-540 RAPR-542	70 58 52 1,2	APK- 5	52 72 3
	28						
	30						
	32						
	33,7						
6	35	G 1	1 1/4	RAPR-644,5 RAPR-645 RAPR-648 RAPR-650 RAPR-650,8 RAPR-652 RAPR-655 RAPR-657	86 66 66 1,2	APK- 6	66 88 3
	38						
	40						
	42						
	44,5						
7	45	G 1 1/2	1 3/4	RAPR-757,2 RAPR-760,3 RAPR-763,5 RAPR-770 RAPR-773 RAPR-776 1	121 93,6 94 1,6	APK- 7	94 122 5
	48						
	50						
	50,8						
	52						
8	55	G 2	2	RAPR-888,9 RAPR-810,1,8	147 117,6 120 1,6	APK- 8	120 148 5
	57						
	57,2						
	60,3						
	63,5						

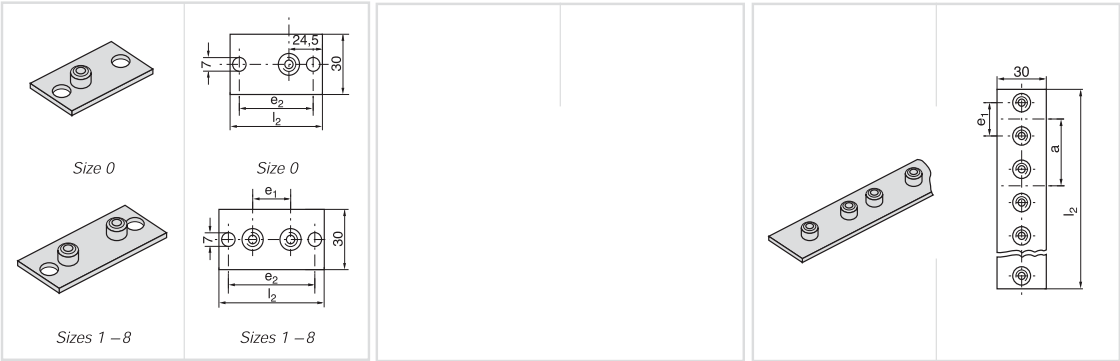
When assembling solid rubber clamps, covering plates, hexagon screws and locking washers must be used.

¹⁾ Aluminium only sizes 1 to 6.

Add A-316 for stainless steel parts, APKA2-316

PIPE -TUBE CLAMPS

Standard (Ligth) serie



Clamp size	Weld/screw plate, long	Weld/screw plate, long					Multiple weld plate	Multiple weld plate		
	APKL	e_1	l_2	e_2			APR-	e_1	a	l_2
0		—	58	44			APR- 0	—	30	298
1	APKL1	20	64	50			APR- 1	20	35	349
2	APKL2	26	70	56			APR- 2	26	43	427
3	APKL3	33	78	64			APR 3	33	52	516
4	APKL4	40	87	73			APR- 4	40	60	297
5	APKL5	52	100	86			APR- 5	52	75	370
6	APKL6	66	116	100			APR- 6	66	90	446
7	APKL7	94	150	136						
8	APKL8	120	178	162						

Add A-316 for stainless steel parts, APLA2-316, APRA2-316,

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FLANGES

PIPES & TUBES

CLAMPS

VALVES

BITE TYPE FITTINGS

HP HOSES

QUICK COUPL.

TEST POINTS

ADAPTORS

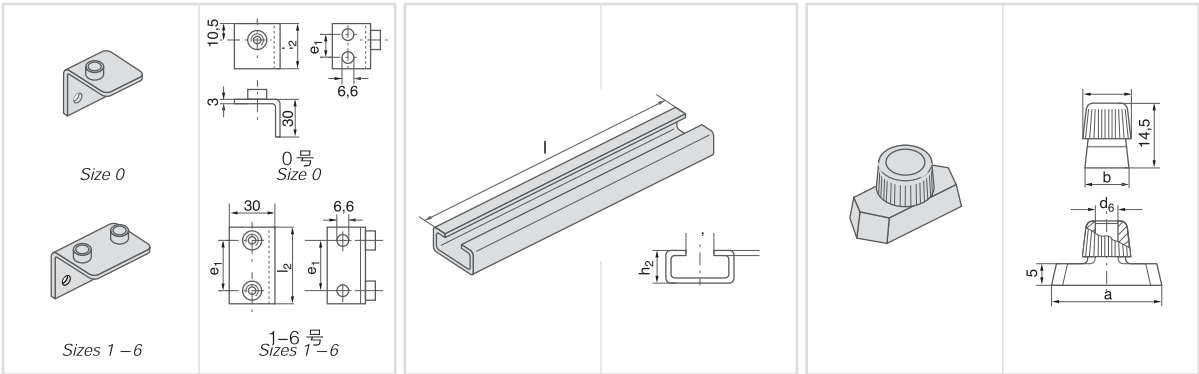
MACHINES

OTHER PRODUCTS

PIPE -TUBE CLAMPS

Standard (Ligth) serie

c

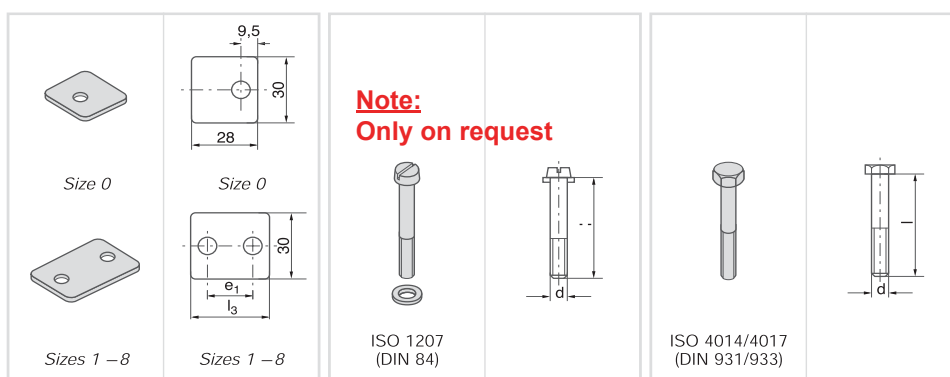


Clamp size	Weld plate, angled	Weld plate, angled		Mounting rail		Mounting rail		Rail nut		Rail nut			
	APV	e ₁	l ₂	TSF H 14(standard) TSF H 11 on request	l	h ₂	KMA	a	b	c	d ₆		
0	APV 0	14	30	TSF H 14mm 1m TSF H 14mm 2m	1 m 2 m	14 14	KMA	25,4	10,4	12	M 6		
1	APV 1	20	36										
2	APV 2	26	42										
3	APV 3	33	50										
4	APV 4	40	59										
5	APV 5	52	72										
6	APV 6	66	88										
7													
8													

Add A -316 for stainless steel parts, APVA2-316 TSF-316, KMA-316

PIPE -TUBE CLAMPS

Standard (Ligth) serie



Clamp size	Cover plate DP-	Cover plate DP- l ₃ e ₁	Slot head SL-	Slot head SL-A d x l	Hexagon head SS	Hexagon head SS d x l
0	DP- 0	— —	SL- 0	M 6 x 20	SS 1	M 6 x 30
1	DP- 1	34 20	SL- A 1	M 6 x 20	SS 1	M 6 x 30
2	DP- 2	40 26	SL- 2	M 6 x 25	SS 2	M 6 x 35
3	DP- 3	48 33	SL- 3	M 6 x 30	SS 3	M 6 x 40
4	DP- 4	57 40	SL- 4	M 6 x 35	SS 4	M 6 x 45
5	DP- 5	70 52	SL- 5	M 6 x 50	SS 5	M 6 x 60
6	DP- 6	86 66	SL- 6	M 6 x 60	SS 6	M 6 x 70
7	DP- 7	120 94			SS	M 6 x 100
8	DP- 8	146 120			SS	M 6 x 125

Add A-316 for stainless steel, DPA2-316

Add -316 for stainless steel, SS2-316

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FLANGES

PIPES &
TUBES

CLAMPS

VALVES

BITE TYPE
FITTINGS

HP HOSES

QUICK
COUPL.

TEST
POINTS

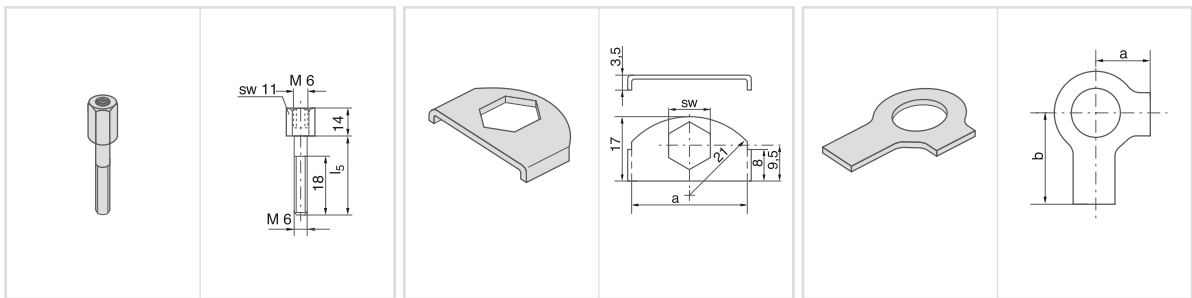
ADAPTORS

MACHINES

OTHER
PRODUCTS

PIPE -TUBE CLAMPS

Standard (Ligth) serie



Clamp size	Bolts		Locking plate ¹⁾ SB	Locking plate ¹⁾ SB		Locking washer ²⁾ US-	Locking washer ²⁾ US-	
	Stacking ¹⁾ AS-	Stacking ¹⁾ AS- l ₅		a	SW		a	b
0	AS- 1	20	SB	30	11	US-	9	18
1	AS- 1	20						
2	AS- 2	25						
3	AS- 3	30						
4	AS- 4	35						
5	AS- 5	50						
6	AS- 6	60						
7								
8								

Add A-316 for stainless steel, AS2-316 Add -316 for stainless steel, SB2-316, US2-316

¹⁾The usage of stacking bolts necessitates the use of locking plates during the construction assembly.

²⁾When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used.

PIPE -TUBE CLAMPS

Twin Standard (Ligth) serie

**Order codes
for clamp-halves:**

Polypropylene

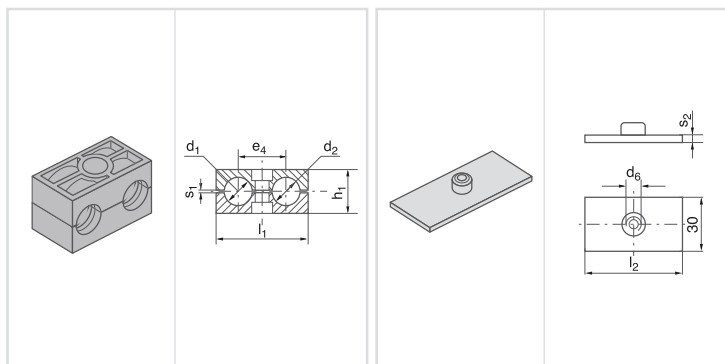
RBPR

Polyamide 6

RBNR

Rubber

RBVG



Clamp size	O.D. mm d ₁ /d ₂	Tube NB	Inch O.D.	1 part 2 clamp-halves ¹⁾ RBPR	2 clamp-halves RBPR-... l ₁ h ₁ e ₄ s ₁	Welding plate, short AP-B	Welding plate, short AP-B l ₂ s ₂ d ₆
1	6	G 1/8	1/4 5/16 3/8	RBPR-106	36 27 20 1,0	AP-B 1	37 3 M 6
	6,4			RBPR-106,4			
	8			RBPR-108			
	9,5			RBPR-109,5			
	10			RBPR-110			
	12			RBPR-112			
2	12,7	G 1/4	1/2	RBPR-212,7	53 26 29 1,2	AP-B 2	55 5 M 8
	13,5			RBPR-213,5			
	14			RBPR-214			
	15			RBPR-215			
	16	G 3/8	5/8	RBPR-216			
	17,2			RBPR-217,2			
3	18	G 1/2	3/4 1	RBPR-218	67 37 36 1,6	AP-B 3	70 5 M 8
	19			RBPR-319			
	20			RBPR-320			
	21,3			RBPR-321,3			
	22			RBPR-322			
4	25	G 3/4	1	RBPR-325	82 42 45 2	AP-B 4	85 5 M 8
	26,9			RBPR-426,9			
	28			RBPR-428			
5	30	G 1 G 1 1/4	1 1/4 1 1/2	RBPR-430	106 54 56 2	AP-B 5	110 5 M 8
	32			RBPR-532			
	33,7			RBPR-533,7			
	35			RBPR-535			
	38			RBPR-538			
	40			RBPR-540			
	42			RBPR-542			

Add A-316 for stainless steel, APBA2-316

¹⁾Twin-tube clamps with different outer tube diameter upon request.

PYPLOK

FLANGES

PIPES &
TUBES

CLAMPS

VALVES

BITE TYPE
FITTINGS

HP HOSES

QUICK
COUPL.

TEST
POINTS

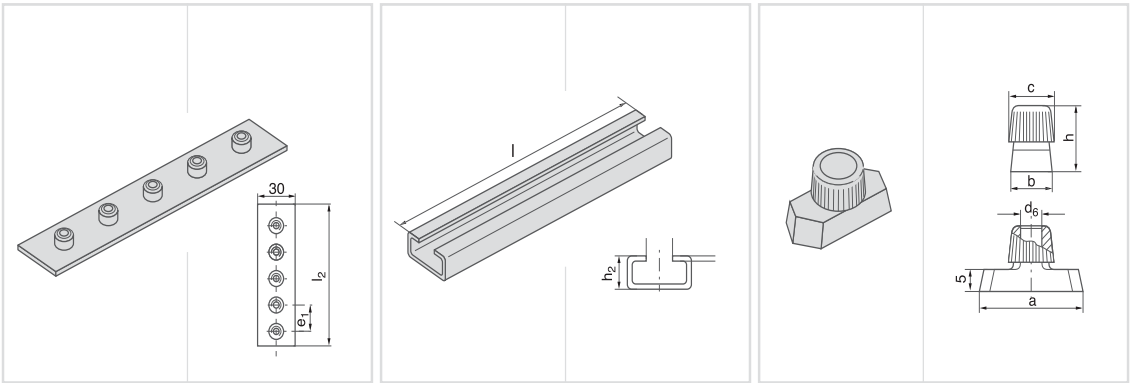
ADAPTORS

MACHINES

OTHER
PRODUCTS

PIPE -TUBE CLAMPS

Twin Standard (Ligth) serie

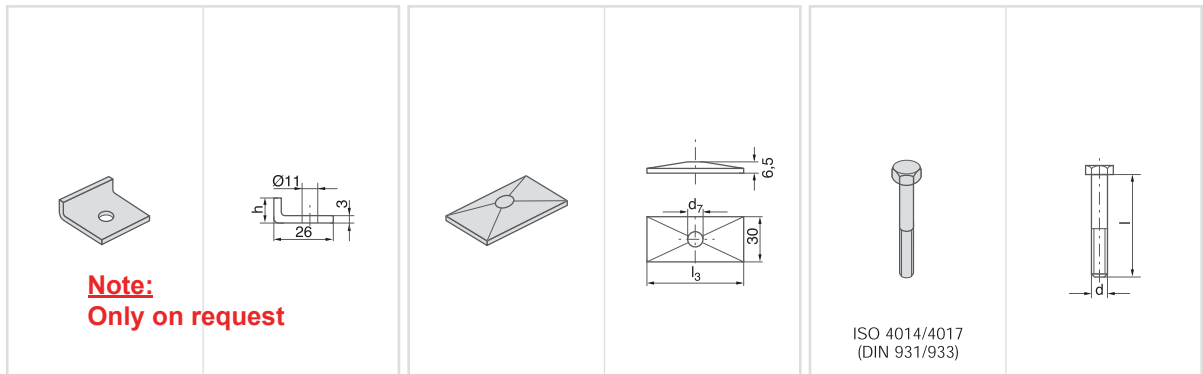


Clamp size	Multiple weld plate		Mounting rail		Rail nut	
	APR-	APR- e ₁ l ₂	TSF H 14(standard) TSF H 11 on request	l h ₂	KMA	a b c d ₆ h
1	APR- 1 5 Clamps	40 196	TSF H 14mm 1m TSF H 14mm 2m	1 m 14 2 m 14	KMA	25,4 10,4 14 M 8 13
2	APR- 2 5 Clamps	58 288				
3	APR- 3 5 Clamps	72 358				
4	APR- 4 5 Clamps	90 446				
5	APR- 5 5 Clamps	112 558				

Add A-316 for stainless steel, APRA2-316, TSF-316, KMA-316

PIPE -TUBE CLAMPS

Twin Standard (Ligth) serie



Clamp size	Bracket BW-A	Bracket BW-A	Cover plate DP-B	Cover plate DP-B l ₃ d ₇	Hexagonal Head SS-	Hexagonal Head SS-B d x l
1			DP-B 1	34 6,8	SSB - 1	M 6 x 35
2			DP-B 2	51 9	SSB - 2	M 8 x 35
3			DP-B 3	64 8,6	SSB - 3	M 8 x 45
4			DP-B 4	78 8,6	SSB - 4	M 8 x 50
5			DP-B 5	102 8,6	SSB - 5	M 8 x 60

Add -316 for stainless steel, DPB2-316, SSB2-316

PIPE -TUBE CLAMPS

Heavy serie

Order codes

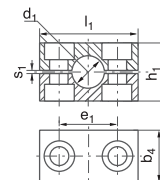
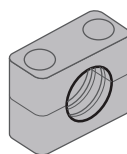
for clamp-halves:

Polypropylene **RCPR**

inside smooth **RCPS**

Polyamide 6 **RCNR**

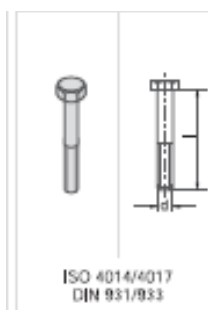
Rubber **RCVR**

Aluminium **RCAR**

Clamp size	O.D. mm	Tube NB	Inch O.D.	1 part 2 clamp-halves	2 clamp-halves RCPR -...				
	d ₁			RCPR	l ₁	h ₁	e ₁	s ₁	b ₄
1	6	G 1/8	5/16	RCPR-106 RCPR-108 RCPR-110 RCPR-112 RCPR-112,7 RCPR-113,5 RCPR-114 RCPR-115 RCPR-116 RCPR-117,2 RCPR-118	56	32	33	2	30
	8								
	10								
	12	G 1/4	1/2						
	12,7								
	13,5								
	14	G 3/8	5/8						
15									
16									
17,2									
18									
2	19	G 1/2	3/4	RCPR-219 RCPR-220 RCPR-221,3 RCPR-222 RCPR-223 RCPR-225 RCPR-226,9 RCPR-228 RCPR-230	71	48	45	2	30
	20								
	21,3								
	22	G 3/4	1						
	23								
	25								
	26,9								
28									
30									
3	30	G 1	1 1/4	RCPR-330 RCPR-332 RCPR-333,7 RCPR-335 RCPR-338 RCPR-340 RCPR-342	86	60	60	2	30
	32								
	33,7								
	35	G 1 1/4	1 1/2						
	38								
	40								
	42								
4	38	G 1 1/4	1 1/2	RCPR-438 RCPR-440 RCPR-442 RCPR-445 RCPR-448,3 RCPR-450 RCPR-451 RCPR-452 RCPR-455 RCPR-457 RCPR-460,3 RCPR-463 RCPR-465 RCPR-470	117	90	90	3	45
	40								
	42								
	45	G 1 1/4	2						
	48,3								
	50								
	51	G 2	2 1/4						
	52								
	55								
	57	G 2	2 1/2						
	60,3								
	63								
	65								
70									
5	70	G 2 1/2	3	RCPR-570 RCPR-573 RCPR-575 RCPR-576,1 RCPR-580 RCPR-582,5 RCPR-588,9 RCPR-590	154	120	122	5	60
	73								
	75								
	76,1	G 3	3 1/4						
	80								
	82,5								
	88,9								
90									
6	90	G 3 1/2	4	RCPR-690 RCPR-697 RCPR-6100 RCPR-6101,6 RCPR-6108 RCPR-6114,3 RCPR-6127	205	170	168	6	80
	97								
	100								
	101,6	G 4	4 1/4						
	108								
	114,3								
	127								
7	127	G 5	5	RCPR-7127 RCPR-7130 RCPR-7133 RCPR-7140 RCPR-7150 RCPR-7152,4 RCPR-7159 RCPR-7165,1 RCPR-7168,3	250	200	205	6	90
	130								
	133								
	140	G 5 1/2	6						
	150								
	152,4								
	159	G 6	6 1/4						
	165,1								
168,3									
8	168,3	G 8	8 5/8	RCPR-8168,3 RCPR-8177,8 RCPR-8193,7 RCPR-8203 RCPR-8219,1 RCPR-8220	320	270	265	6	120
	177,8								
	193,7								
	203								
	219,1								
	220								
	220								

PYPLOK

FLANGES



PIPES & TUBES

CLAMPS

VALVES

BITE TYPE
FITTINGS

HP HOSES

QUICK
COUPL.

TEST
POINTS

ADAPTORS

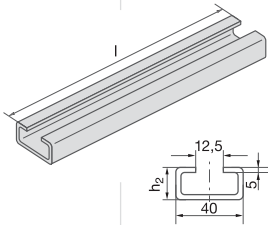
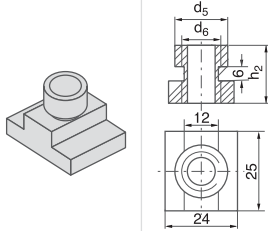
MACHINES

OTHER PRODUCTS

Add A-316 for stainless steel, APCA2-316, APCLA2-316, DPCA2-316, SSCLA2-316

PIPE -TUBE CLAMPS

Heavy serie

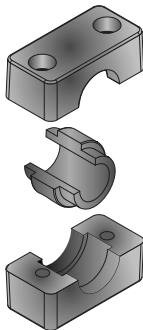
						
Clamp size			Mounting rail STSV	Mounting rail l h ₂	Rail nut GMV	Rail nut h ₂ d ₅ d ₆
			STSV	1m 22		
1						
2						
3					GMV 1	20 17,8 M 10
4					GMV 2	23 19,8 M 12
5						
6						
7						
8						

Mounting rail Heavy Serie only available in mild steel and hot dip galvanized, add -316 for stainless steel railnut

PIPE -TUBE CLAMPS

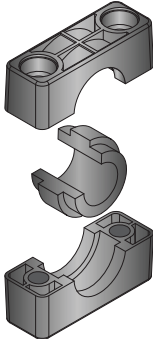
Clamps with elastomer insert

Ligth Serie



Heavy Serie

RCPS



Clamp Body Material

Polyamide

Polypropylene

Elastomer Insert

T TPE 60 Shore A

Thermoplastic Elastomer

Group Diameter

D mm

6

6.4

8

9.5

10

12

12.7

13.5

14

15

16

17.2

18

19

20

21.3

22

23

25

25.4

26.9

28

30

32

Diameter

D mm

6

6.4

8

9.5

10

12

12.7

13.5

14

15

16

17.2

18

19

20

21.3

22

25

25.4

26.9

28

30

32

32

33.7

35

38

40

42

44.5

48.3

50.8

55

57

57

60.3

63.5

65

70

73

76.1

80

82.5

88.9

100

101.6

108

114.3

127

133

168.3

193.7

219.1

PYPLOK

FLANGES

PIPES & TUBES

CLAMPS

VALVES

BITE TYPE FITTINGS

HP HOSES

QUICK COUPL.

TEST POINTS

ADAPTORS

MACHINES

OTHER PRODUCTS

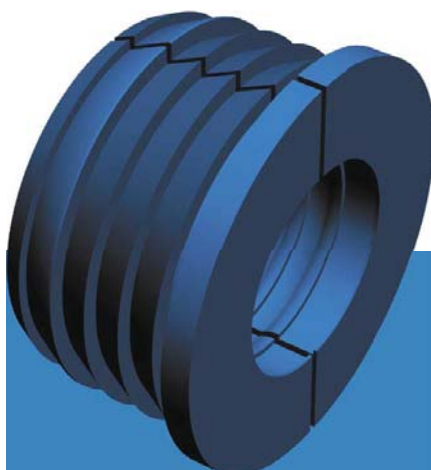
PIPE -TUBE CLAMPS

Other Clamps & Accessories

Clamps with Elastomer Insert	Twin Clamp with Elastomer Insert	U-Bolt Clamp	Metal Pipe Clamps	Metal Pipe Clamps
				

KPS PLUG SYSTEM

- the specially designed quarter elliptical inside lips
- one strong outside lip for central installation
- and the closing lip on the top of the PLUG inside



Safely penetrate pipes & cables through bulkheads & decks

- Easiest technological preparation.
- Shortest installation times compared to other penetration systems.
- Extremely little installation expenditure for the creation of a complete penetration.
- Installation of the PLUGs is possible after the installation of the entire pipework.
- The PLUG works immediately after its installation.
- By the unique and specially developed inside and outside profile a maximum of water tight-ness and gas tightness will be achieved.

Rubber Grades

Colour

Temperature range

FPR

blue

-25°C +90°C

Pipe and cable penetrations through bulkheads and decks (standard rubber grade for fire resistant penetrations onboard ships)

FPR/SIL

green

-70°C +190°C

pipe and cable penetrations through bulkheads and decks especially for pipes with very high and low temperatures

NBR

black

-25°C +100°C pipe

and cable penetrations through bulkheads and decks suitable if oil resistance is required

EPDM

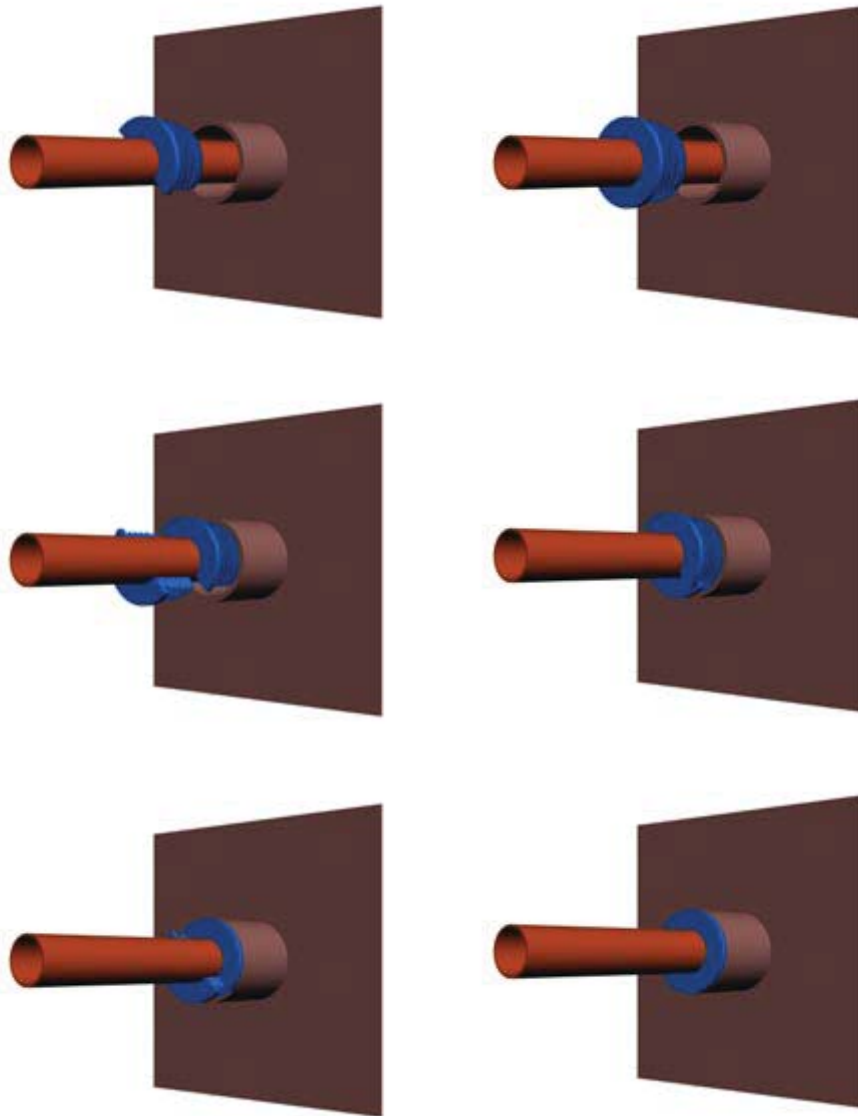
black

-30°C +150°C

pipe and cable penetrations through bulkheads and decks suitable if ozone-, UV- or sea water resistance is required (standard rubber grade for penetrations)

All rubber grades are gas, water and dust tight.

KPS PLUG



The installation could not be any easier.

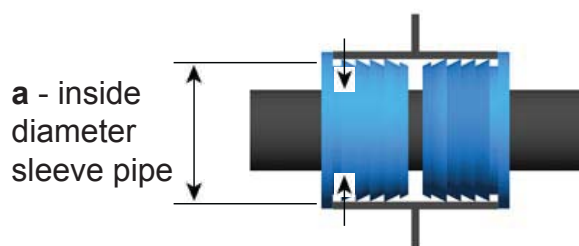
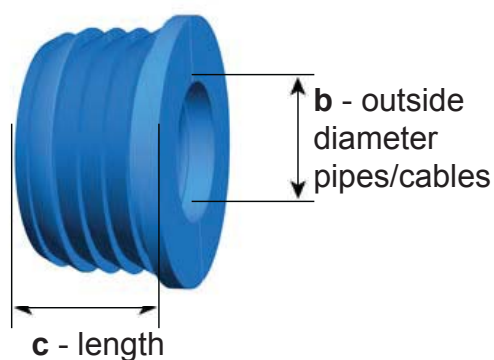
-plan the pipe way - choose the sleeve - burn a whole (centered) for the sleeve in the bulkhead/deck - weld in the sleeve

The PLUG consists of two halves which are laid around the media carrying pipe.

The first profile of the PLUG has to be pushed into the sleeve pipe.

Afterwards simply push in or hit in the other profiles of the PLUG until the „head“ of the PLUG rests against the sleeve pipe. Simply take care of bringing in the two halves equally into the sleeve pipe, profile by profile.

KPS PLUG



PLUGS for steel sleeve pipes according DIN 2448

sleeve pipe	a sleeve pipe inside diameter	PLUG series	b outside diameter media pipes / cables	c PLUG length
42.4 x 2.6	37.2	37.2	4 - 20	51
60.3 x 2.9	54.5	54.5	10 - 35	51
88.9 x 3.2	82.5	82.5	30 - 60	61
114.3 x 3.6	107.1	107.1	30 - 80	61
139.7 x 4.0	131.7	131.7	50 - 100	61
168.3 x 4.5	159.3	159.3	89 - 125	61
219.1 x 6.3	206.5	206.5	114 - 168	81
219.1 x 5.9	207.3	207.3	114 - 168	81
273.0 x 6.3	260.4	260.4	150 - 200	81
355.6 x 8.0	339.6	339.6	219 - 273	81

* -1mm/+0.3mm tolerance

All dimensions in mm.

Example

sleeve pipe = 139.7x4.0

sleeve pipe inside diameter = 131.7mm PLUG series = 131.7

outside diameter media pipe = 89mm

PLUG to be used = 131.7x89

PYPLOK

FLANGES

PIPES & TUBES

CLAMPS

VALVES

BITE TYPE FITTINGS

HP HOSES

QUICK COUPL.

TEST POINTS

ADAPTORS

MACHINES

OTHER PRODUCTS

KPS PLUG

PLUG for various steel /stainless steel sleeve pipes

sleeve pipe	a sleeve pipe inside diameter	PLUG series	b outside diameter media pipes / cables	c PLUG length
26.7 x 2.87	20.96	21.0	4	51
...	...	25.0	4 - 6	51
33.4 x 3.38	26.64	26.6	4 - 6	51
...	...	33.6	6 - 8	51
42.2 x 3.56	35.08	35.0	6 - 18	51
...	...	40.0	8 - 20	51
48.3 x 3.68	40.94	41.0	8 - 22	51
...	...	50.0	10 - 25	51
60.3 x 3.91	52.48	52.5	10 - 32	51
...	...	60.0	10 - 35	51
73.0 x 5.16	62.68	62.7	10 - 45	51
...	...	63.5	20 - 45	61
88.9 x 5.49	77.92	77.9	20 - 54	61
...	...	80.0	30 - 54	61
101.6 x 5.74	90.12	90.0	30 - 64	61
...	...	100.0	30 - 64	61
114.3 x 6.02	102.26	102.3		61
...	...	103.6		61
...	...	105.3		61
...	...	118.6		61
...	...	125.0		61
141.3 x 6.55	128.20	128.2		61
...	...	150.0		61
...	...	151.0		61
...	...	152.0		61
168.3 x 7.11	154.08	154.1		61
...	...	200.0		81
219.1 x 8.18	202.74	202.7		81
...	...	250.0		81
273.1 x 9.27	254.56	254.6		81
...	...	299.6		81
323.9 x 9.53	304.84	304.8		81
...	...	336.6		81

All dimensions in mm.

* -0.5mm/+0.2mm tolerance