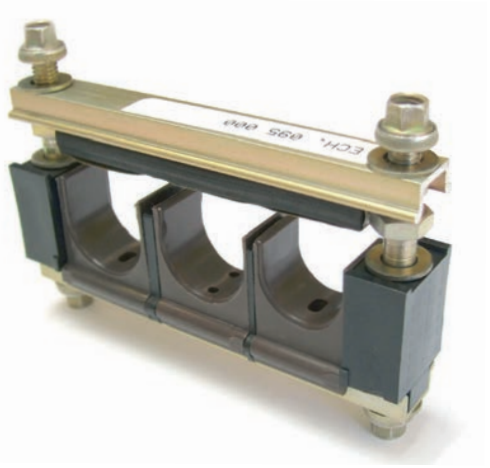
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PIPE CLAMPS

PEIGNES & SUPPORTS DE TUYAUTERIE

Product Catalogue 09/24 - V2.1

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Peignes monoblocs thermoplastiques série ABS



PIPE CLAMPS

PEIGNES & SUPPORTS DE TUYAUTERIE

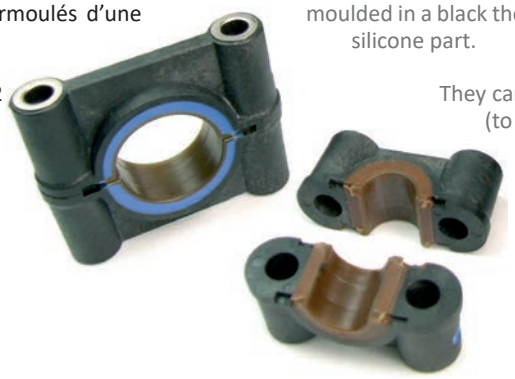
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PRÉSENTATION
PRESENTATION

Cette version de peignes monoblocs axiale est qualifiée suivant la norme ABS1415 pour des tuyauteries de diamètre 6,35 à 50,80 mm.

Chaque peigne se compose de 2 demi-peignes symétriques monoblocs moulés en thermoplastique noir et surmoulés d'une partie silicone.

La fixation s'effectue à l'aide de vis .1900 32 UNF - 3A (non fournies).



These clampblocks on axis alignment are qualified to ABS14XX for pipes diameter .25 to 2 in.

Each assembly is made from two symmetrical monoblock half clamps moulded in a black thermoplastic material and overmoulded for the silicone part.

They can be mounted using a .1900 32 UNF-3A screw (to be ordered separately).

CARACTÉRISTIQUES TECHNIQUES
TECHNICAL DATA

TEMPÉRATURE

Utilisation normale : -55° à +170° C

COMPOSITION

Corps	: thermoplastique noir
Demi bride	: thermoplastique brillant marron
Silicone	: marron pour les zones normales bleu pour les zones fuel
Rondelle captive	: acier inoxydable
Clip de pré-maintien	: thermoplastique noir

Diamètre interne de la rondelle captive (pour vis .1900-32) : $5^{+0.1}_{0}$ mm

TEMPERATURE

Normal operating : -55° to +170° C

RAW MATERIALS

Body	: black thermoplastic
Half-sleeve	: bright brown thermoplastic
Silicon	: brown for normal zone blue for fuel zone
Captive washer	: stainless steel
Pre-handling system	: black thermoplastic

Internal diameter of captive washer (for .1900-32 screw) : $.197^{+.004}_{0}$ inch

SYSTÈME DE RÉFÉRENCE
PART NUMBERING SYSTEM

ABS14XX ***** **

Norme ABS
ABS standard

Code des diamètres (voir tableaux page 5)
Diameter codes (see the tables on page 5)

Code position vis et clips (voir tableaux page 5)
Screw and clips position code (see the tables on page 5)

Il conviendra toujours de commencer par la plus petite taille de tuyau, telle que la configuration DEFE et non pas EFED.

Quelques exemples de références :
ABS1408B - ABS1410EF20 - ABS1448 FDEEF61

Deux demi-peignes sont nécessaires pour chaque assemblage.

Always start with the code of the smallest pipe of the configuration e.g. DEFE and not EFED.

Few examples of part number :
ABS1408B - ABS1410EF20 - ABS1448 FDEEF61

Two halves clampblocks are required for each assembly.

CODE NORME ABS

ABS OF NUMBER CODE

Norme ABS / ABS standard	Nombre de tubes / Holes number	Structure	Allongés / Elongated	Zone
ABS1408	1	fixés / fixed	non / no	fuel
ABS1409	1	fixés / fixed	non / no	normale / normal
ABS1410	2	fixés / fixed	non / no	fuel
ABS1411	2	fixés / fixed	non / no	normale / normal
ABS1412	3	fixés / fixed	non / no	normale / normal
ABS1413	4	fixés / fixed	non / no	normale / normal
ABS1414	5	fixés / fixed	non / no	normale / normal
ABS1421	2	fixés / fixed	oui / yes	normale / normal
ABS1422	3	fixés / fixed	oui / yes	normale / normal
ABS1446	3	non fixés / not fixed	non / no	normale / normal
ABS1447	4	non fixés / not fixed	non / no	normale / normal
ABS1448	5	non fixés / not fixed	oui / yes	normale / normal
ABS1479	3	non fixés / not fixed	oui / yes	normale / normal

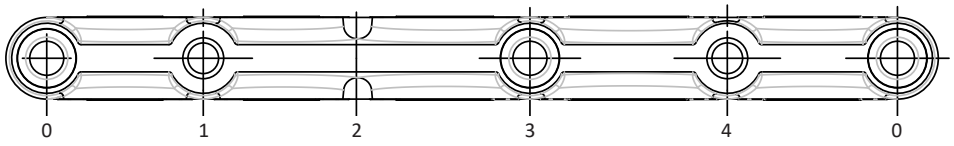
CODE DES DIAMÈTRES

DIAMETER CODE

PEIGNES / CLAMPBLOCKS																
Zone normale / Normal zone											Zone Fuel / Fuel zone					
Dash		04	06	08	10	12	16	20	24	32	Dash		04	06	08	10	12
Ø suivant le code ABS 14XX Code Ø as per ABS 14XX		B	D	E	F	G	H	J	K	P	Ø suivant le code ABS 14XX Code Ø as per ABS 14XX		B	D	E	F	G
Ø de tuyauterie Pipe Ø	mm	6,35	9,52	12,70	15,88	19,05	25,40	31,75	38,10	50,80	Ø de tuyauterie Pipe Ø	mm	6,35	9,52	12,70	15,88	19,05
	inch	.25	.375	.5	.625	.768	1	1.25	1.5	2		inch	.25	.375	.5	.625	.768
Ø mini Mini Ø	mm	6,30	9,48	12,65	15,83	18,99	25,33	31,66	38,01	50,80	Ø mini Mini Ø	mm	6,35	9,53	12,70	15,88	19,03
	inch	.248	.373	.498	.623	.748	.997	1.246	1.496	2		inch	.25	.375	.5	.625	.749
Ø maxi Maxi Ø	mm	6,53	9,71	12,88	16,06	19,26	25,60	31,97	38,32	50,95	Ø maxi Maxi Ø	mm	6,426	9,606	12,802	15,982	19,162
	inch	.257	.382	.507	.632	.758	1.008	1.259	1.509	2.006		inch	.253	.378	.504	.629	.754

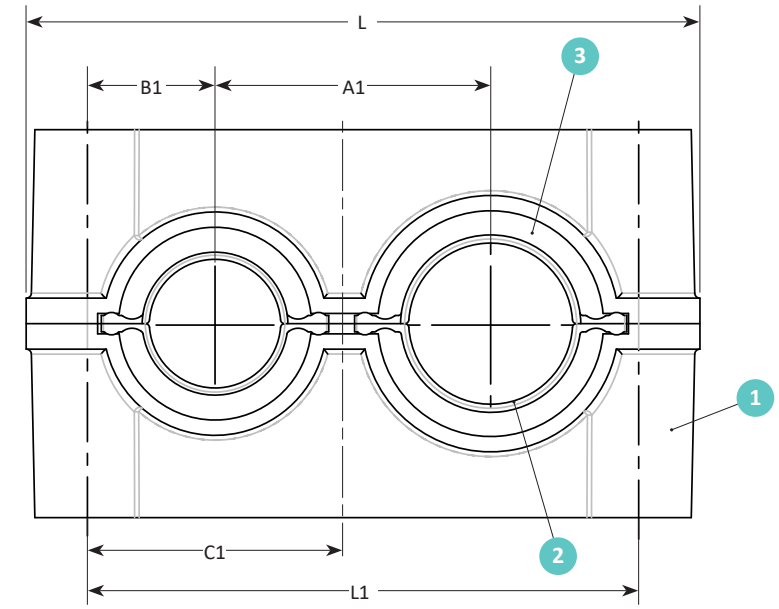
CODE POSITION VIS ET CLIPS

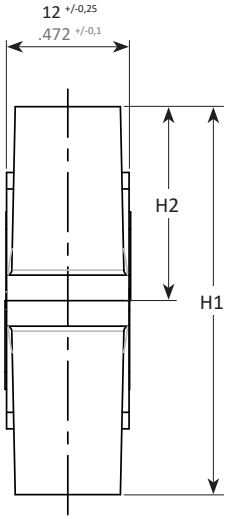
SCREW AND CLIPS POSITION CODE

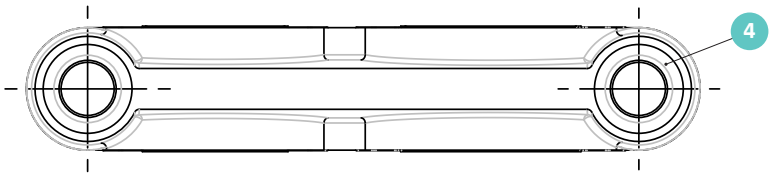


Nombre de tubes / Holes numbers									
2		3			4			5		
Code	Position de la vis de maintien Bolt position	Code	Position de la vis de maintien Bolt position	Position des clips de pré-maintien Clips position	Code	Position de la vis de maintien Bolt position	Position des clips de pré-maintien Clips position	Code	Position de la vis de maintien Bolt position	Position des clips de pré-maintien Clips position
20	0-0	30	0-0	1-2	40	0-0	1-3	50	0-1-0	2-4
21	0-1-0	31	0-1-0	/	41	0-1-0	2-3	51	0-1-2-0	3-4
		32	0-1-2-0	/	42	0-1-2-0	/	52	0-1-2-3-0	/
		33	0-2-0	/	43	0-1-2-3-0	/	53	0-1-2-3-4-0	/
					44	0-1-3-0	/	54	0-1-3-0	2-4
					45	0-2-0	1-3	55	0-1-3-4-0	/
					46	0-2-3-0	/	56	0-1-4-0	2-3
					47	0-3-0	1-2	57	0-2-0	1-4
								58	0-2-3-0	1-4
								59	0-2-3-4-0	/
								60	0-2-4-0	1-3
								61	0-3-0	1-4
								62	0-3-4-0	1-2
								63	0-4-0	1-3

PEIGNES FIXÉS SUR STRUCTURE - ZONE FUEL
CLAMPBLOCKS FIXED ON THE STRUCTURE - FUEL ZONE







LÉGENDE

1 - Corps
2 - Demi-bride
3 - Silicone
4 - Rondelle captive

CAPTION

1 - Body
2 - Half-sleeve
3 - Silicone
4 - Captive washer

1 TUBE

1 HOLE CLAMPBLOCK

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Dash	H1 ± 0.30		H2 ± 0.15		L ± 0.5		L1 ± 0.25		Masse Weight g
			mm	inch	mm	inch	mm	inch	mm	inch	
ABS1408B	3530 9101 822	04	29	1.142	14,5	.571	31	1.22	19	.748	9,35
ABS1408D	3530 9102 822	06	29	1.142	14,5	.571	35	1.378	23	.905	10,45
ABS1408E	3530 9103 822	08	29	1.142	14,5	.571	37	1.457	25	.984	10,75
ABS1408F	3530 9104 822	10	38	1.496	19	.748	41	1.614	29	1.142	14,40
ABS1408G	3530 9105 822	12	38	1.496	19	.748	48	1.89	36	1.417	16,30

2 TUBES

2 HOLES CLAMPBLOCK

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Dash		H1 ± 0.30		H2 ± 0.15		L ± 0.5		L1 ± 0.25		A1 ± 0.5		B1 ± 0.25		Masse Weight g
				mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
ABS1410DF20	3530 9204 822	06	10	38	1.496	19	.748	64	2.52	52	2.047	26	1.024	11,5	.453	21,70
ABS1410EE20	3530 9205 822	08	08	29	1.142	14,5	.571	62	2.441	50	1.969	25	.984	12,5	.492	17,20
ABS1410EF20	3530 9206 822	08	10	38	1.496	19	.748	66	2.598	54	2.126	27	1.063	12,5	.492	22,10
ABS1410FF20	3530 9208 822	10	10	38	1.496	19	.748	70	2.756	58	2.283	29	1.142	14,5	.571	23,10

PEIGNES FIXÉS SUR STRUCTURE - ZONE NORMALE
CLAMPBLOCKS FIXED ON THE STRUCTURE - NORMAL ZONE

1 TUBE

1 HOLE CLAMPBLOCK

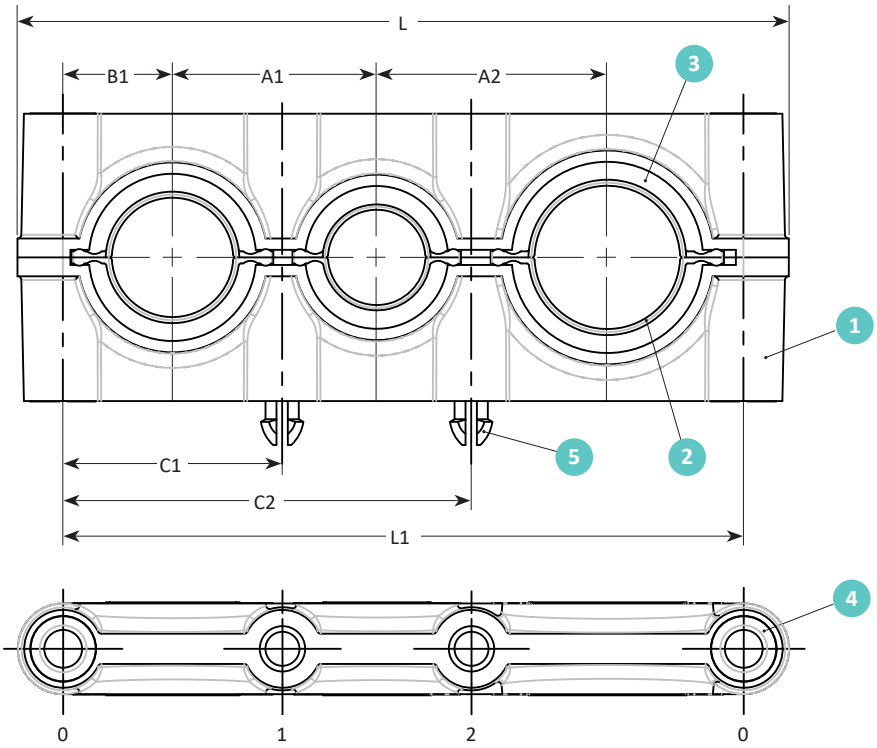
Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Dash	H1 ± 0.30		H2 ± 0.15		L ± 0.5		L1 ± 0.25		Masse Weight g
			mm	inch	mm	inch	mm	inch	mm	inch	
ABS1409B	3530 9101 811	04	29	1.142	14,5	.571	31	1.22	19	.748	9,30
ABS1409D	3530 9102 811	06	29	1.142	14,5	.571	35	1.378	23	.905	10,40
ABS1409E	3530 9103 811	08	29	1.142	14,5	.571	37	1.457	25	.984	10,70
ABS1409F	3530 9104 811	10	38	1.496	19	.748	41	1.614	29	1.142	14,30
ABS1409G	3530 9105 811	12	38	1.496	19	.748	48	1.89	36	1.417	16,20
ABS1409H	3530 9106 811	16	46	1.811	23	.905	54	2.126	42	1.654	20,30
ABS1409J	3530 9107 811	20	50	1.969	25	.984	64	2.52	52	2.047	22,60
ABS1409K	3530 9109 811	24	57	2.244	28,5	1.122	70	2.756	58	2.283	28,50
ABS1409P	3530 9108 811	32	70	2.756	35	1.378	84	3.307	72	2.835	38,10

2 TUBES

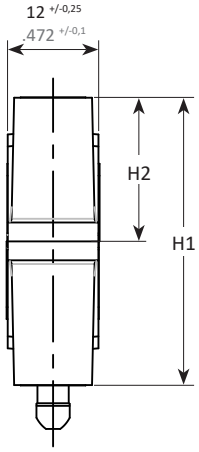
2 HOLES CLAMPBLOCK

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Dash		H1 ± 0.30		H2 ± 0.15		L ± 0.5		L1 ± 0.25		A1 ± 0.5		B1 ± 0.25		C1 ± 0.5		Masse Weight g	Vis de maintien Bolt
				mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
ABS1411BB20	3530 9201 811	04	04	29	1.142	14,5	.571	50	1.969	38	1.496	19	.748	9,5	.374	/	/	14,30	0-0
ABS1411BD20	3530 9214 811	04	06	29	1.142	14,5	.571	54	2.126	42	1.654	21	.827	9,5	.374	/	/	15,50	0-0
ABS1411DD20	3530 9202 811	06	06	29	1.142	14,5	.571	58	2.283	46	1.811	23	.905	11,5	.453	/	/	16,20	0-0
ABS1411DE20	3530 9203 811	06	08	29	1.142	14,5	.571	60	2.362	48	1.89	24	.945	11,5	.453	/	/	16,80	0-0
ABS1411DF20	3530 9204 811	06	10	38	1.496	19	.748	64	2.52	52	2.047	26	1.024	11,5	.453	/	/	21,60	0-0
ABS1411EE20	3530 9205 811	08	08	29	1.142	14,5	.571	62	2.441	50	1.969	25	.984	12,5	.492	/	/	17,10	0-0
ABS1411EF20	3530 9206 811	08	10	38	1.496	19	.748	66	2.598	54	2.126	27	1.063	12,5	.492	/	/	22,00	0-0
ABS1411EG20	3530 9207 811	08	12	38	1.496	19	.748	73	2.874	61	2.401	30,5	1.2	12,5	.492	/	/	23,80	0-0
ABS1411FF20	3530 9208 811	10	10	38	1.496	19	.748	70	2.756	58	2.283	29	1.142	14,5	.571	/	/	23,00	0-0
ABS1411FG20	3530 9209 811	10	12	38	1.496	19	.748	77	3.031	65	2.559	32,5	1.28	14,5	.571	/	/	24,80	0-0
ABS1411FH21	3530 9210 811	10	16	46	1.811	23	.905	83	3.268	71	2.795	35,5	1.398	14,5	.571	29	1.142	31,90	0-1-0
ABS1411GG20	3530 9211 811	12	12	38	1.496	19	.748	84	3.307	72	2.835	36	1.417	18	.709	/	/	27,10	0-0
ABS1411GH21	3530 9212 811	12	16	46	1.811	23	.905	90	3.543	78	3.071	39	1.534	18	.709	36	1.417	33,60	0-1-0
L00030 111 000	3530 9215 811	16	20	50	1.969	25	.984	106	4.173	94	3.7	47	1.85	21	.827	42	1.654	41,30	0-1-0

3 TUBES



3 HOLES CLAMPBLOCK



LÉGENDE

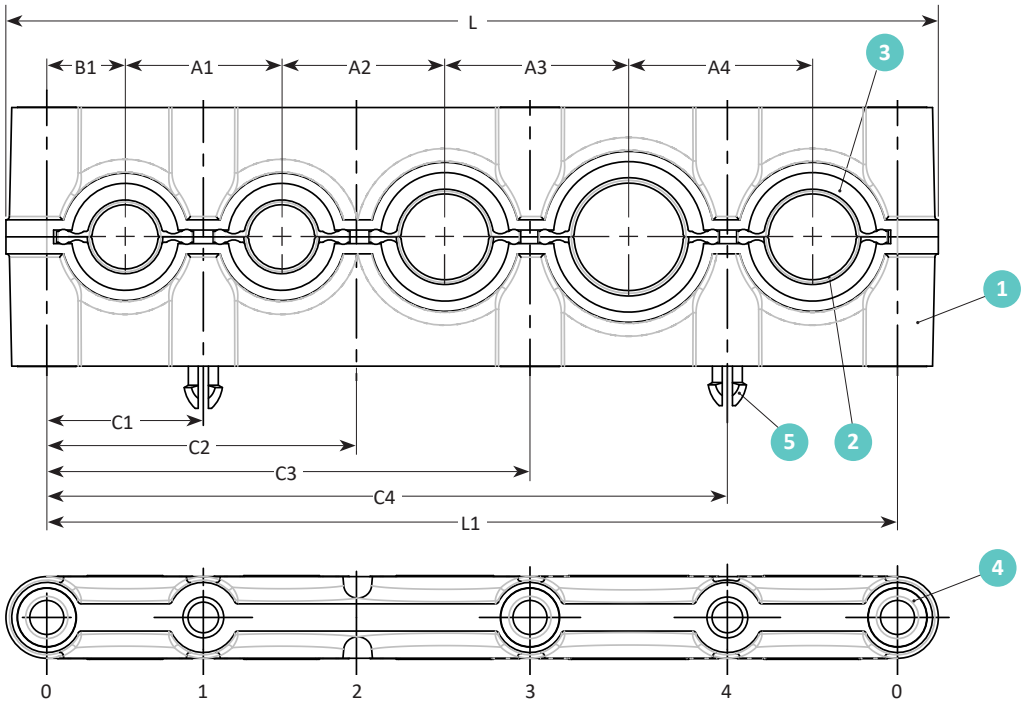
1 - Corps
2 - Demi-bride
3 - Silicone
4 - Rondelle captive
5 - Clip optionnel

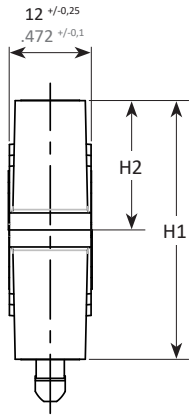
CAPTION

1 - Body
2 - Half-sleeve
3 - Silicone
4 - Captive washer
5 - Optional clip

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Dash			H1 ± 0.30	H2 ± 0.15	L ± 0.5	L1 ± 0.25	A1 ± 0.25	A2 ± 0.25	B1 ± 0.25	C1 ± 0.5	C2 ± 0.5	Masse Weight g	Position	
					mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)		Vis de maintien Bolt	Clip
ABS1412BBB30	3530 9341 811	04	04	04	29 1.142	14,5 .571	69 2.717	57 2.244	19 .748	19 .748	9,5 .374	19 .748	38 1.496	20,50	0-0	1-2
ABS1412BDE30	3530 9348 811	04	06	08	29 1.142	14,5 .571	79 3.110	67 2.638	21 .827	24 .945	9,5 .374	19 .748	42 1.653	23,00	0-0	1-2
ABS1412BFD30	3530 9349 811	04	10	06	38 1.496	19 .748	83 3.268	71 2.795	24 .945	26 1.024	9,5 .374	19 .748	48 1.89	30,00	0-0	1-2
ABS1412DDD30	3530 9302 811	06	06	06	29 1.142	14,5 .571	81 3.189	69 2.717	23 .906	23 .906	11,5 .453	23 .906	46 1.811	23,20	0-0	1-2
ABS1412DDE30	3530 9328 811	06	06	08	29 1.142	14,5 .571	83 3.268	71 2.795	23 .906	24 .945	11,5 .453	23 .906	46 1.811	23,90	0-0	1-2
ABS1412DDF30	3530 9319 811	06	06	10	38 1.496	19 .748	87 3.346	75 2.953	23 .906	26 1.024	11,5 .453	23 .906	46 1.811	30,80	0-0	1-2
ABS1412DDH30	3530 9315 811	06	06	16	46 1.811	23 .906	100 4.016	88 3.465	23 .906	32,5 1.28	11,5 .453	/	46 1.811	34,10	0-2-0	N/A
ABS1412DED30	3530 9318 811	06	08	06	29 1.142	14,5 .571	83 3.268	71 2.795	24 .945	24 .945	11,5 .453	23 .906	48 1.89	23,90	0-0	1-2
ABS1412DEE30	3530 9329 811	06	08	08	29 1.142	14,5 .571	85 3.346	73 2.874	24 .945	25 .984	11,5 .453	23 .906	48 1.89	24,20	0-0	1-2
ABS1412DEF30	3530 9305 811	06	08	10	38 1.496	19 .748	89 3.504	77 3.031	24 .945	27 1.063	11,5 .453	23 .906	48 1.89	30,80	0-0	1-2
ABS1412DFE30	3530 9336 811	06	10	08	38 1.496	19 .748	89 3.504	77 3.031	26 1.024	27 1.063	11,5 .453	23 .906	52 2.047	30,80	0-0	1-2
ABS1412DGF30	3530 9316 811	06	12	10	38 1.496	19 .748	100 3.937	88 3.465	29,5 1.161	32,5 1.28	11,5 .453	23 .906	59 2.323	34,10	0-0	1-2
ABS1412EDF30	3530 9310 811	08	06	10	38 1.496	19 .748	89 3.504	77 3.031	24 .945	26 1.024	12,5 .492	25 .984	48 1.89	30,80	0-0	1-2
ABS1412EEF30	3530 9320 811	08	08	10	38 1.496	19 .748	91 3.583	79 3.11	25 .984	27 1.063	12,5 .492	25 .984	50 1.969	31,50	0-0	1-2
ABS1412EEG30	3530 9337 811	08	08	12	38 1.496	19 .748	98 3.858	86 3.386	25 .984	30,5 1.2	12,5 .492	25 .984	50 1.969	33,40	0-0	1-2
ABS1412EFE30	3530 9327 811	08	10	08	38 1.496	19 .748	91 3.583	79 3.11	27 1.063	27 1.063	12,5 .492	25 .984	54 2.126	31,50	0-0	1-2
ABS1412EFF30	3530 9312 811	08	10	10	38 1.496	19 .748	95 3.74	83 3.268	27 1.063	29 1.142	12,5 .492	25 .984	54 2.126	32,70	0-0	1-2
ABS1412EGE30	3530 9322 811	08	12	08	38 1.496	19 .748	98 3.858	86 3.386	30,5 1.2	30,5 1.2	12,5 .492	25 .984	61 2.402	33,40	0-0	1-2
ABS1412FDH33	3530 9325 811	10	06	16	46 1.811	23 .906	106 4.173	94 3.7	26 1.024	32,5 1.28	14,5 .571	/	52 2.047	41,30	0-2-0	N/A
ABS1412FEG30	3530 9317 811	10	08	12	38 1.496	19 .748	102 4.016	90 3.543	27 1.063	30,5 1.2	14,5 .571	29 1.142	54 2.126	34,50	0-0	1-2
ABS1412FEH33	3530 9323 811	10	08	16	46 1.811	23 .906	108 4.252	96 3.78	27 1.063	33,5 1.319	14,5 .571	/	54 2.126	41,80	0-2-0	1-2
ABS1412FFF30	3530 9324 811	10	10	10	38 1.496	19 .748	99 3.898	87 3.425	29 1.142	29 1.142	14,5 .571	29 1.142	58 2.283	33,60	0-0	1-2
ABS1412FFG30	3530 9314 811	10	10	12	38 1.496	19 .748	106 4.173	94 3.7	29 1.142	32,5 1.28	14,5 .571	29 1.142	58 2.283	35,60	0-0	1-2
ABS1412HGH32	3530 9321 811	16	12	16	46 1.811	23 .906	132 5.197	120 4.724	39 1.535	39 1.535	21 .827	42 1.654	78 3.071	50,00	0-1-2-0	N/A
L00030 111 001	3530 9330 811	08	20	16	50 1.969	25 .984	131 5.157	119 4.685	38,5 1.516	47 1.85	12,5 .492	25 .984	77 3.031	52,65	0-1-2-0	N/A
L00030 111 000	3530 9331 811	10	20	16	50 1.969	25 .984	135 5.315	123 4.843	40,5 1.594	47 1.85	14,5 .571	29 1.142	81 3.189	54,00	0-1-2-0	N/A

AMPHENOL AIR LB - 2 rue Clément Ader, Zac de Wé - 08110 CARIGNAN - FRANCE - Tel. : +33 (0)3 24 22 78 49 - www.amphenol-airlb.fr





LÉGENDE

1 - Corps
2 - Demi-bride
3 - Silicone
4 - Rondelle captive
5 - Clip optionnel

CAPTION

1 - Body
2 - Half-sleeve
3 - Silicone
4 - Captive washer
5 - Optional clip

4 TUBES

4 HOLES CLAMPBLOCK

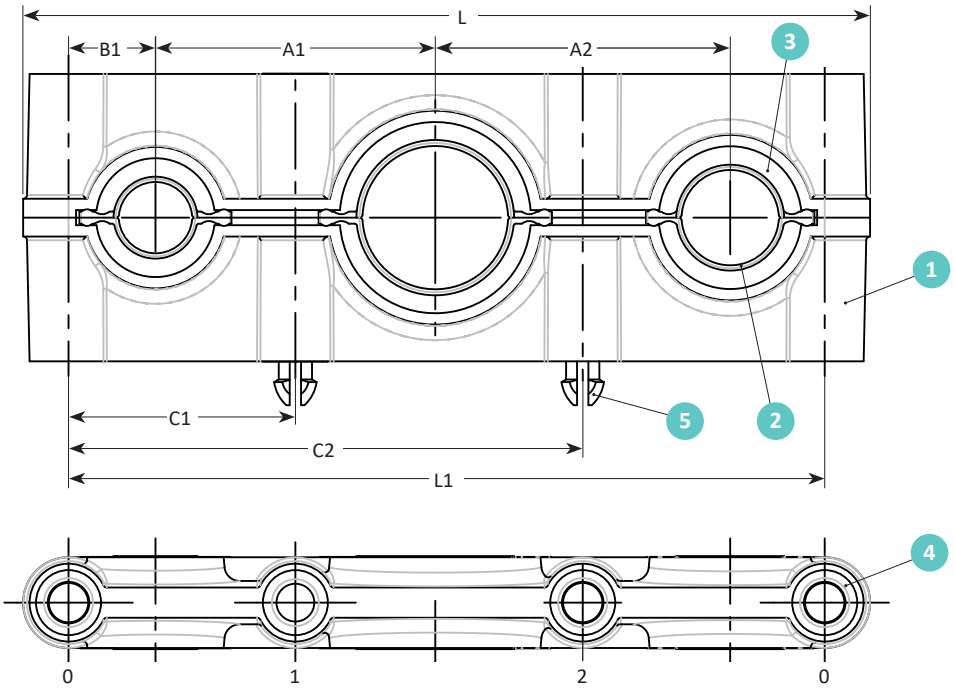
Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Dash				H1 ± 0.30	H2 ± 0.15	L ± 0.5	L1 ± 0.25	A1 ± 0.25	A2 ± 0.25	A3 ± 0.25	B1 ± 0.25	C1 ± 0.5	C2 ± 0.5	C3 ± 0.5	Masse Weight g	Position	
						mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)		Vis de maintien Bolt	Clip
ABS1413BFDE40	3530 9430 811	04	10	06	08	38 1.496	19 .748	108 4.252	96 3.78	24 .945	26 1.024	24 .945	9,5 .374	19 .748	/	71 2.795	39,00	0-0	1-3
ABS1413DDDD40	3530 9422 811	06	06	06	06	29 1.142	14,5 .571	104 4.094	92 3.622	23 .906	23 .906	23 .906	11,5 .453	23 .906	/	69 2.716	27,90	0-0	1-3
ABS1413DDDE40	3530 9424 811	06	06	06	08	29 1.142	14,5 .571	106 4.173	94 3.7	23 .906	23 .906	24 .945	11,5 .453	23 .906	/	69 2.716	28,20	0-0	1-3
ABS1413DDEE45	3530 9418 811	06	06	08	08	29 1.142	14,5 .571	108 4.252	96 3.78	23 .906	24 .945	25 .984	11,5 .453	23 .906	46 1.811	71 2.795	30,50	0-2-0	1-3
ABS1413DDEF40	3530 9423 811	06	06	08	10	38 1.496	19 .748	112 4.409	100 3.937	23 .906	24 .945	27 1.063	11,5 .453	23 .906	/	71 2.795	39,00	0-0	1-3
ABS1413DEFD40	3530 9401 811	06	08	10	06	38 1.496	19 .748	112 4.409	100 3.937	24 .945	27 1.063	26 1.024	11,5 .453	23 .906	/	77 3.031	39,00	0-0	1-3
ABS1413DEFE40	3530 9402 811	06	08	10	08	38 1.496	19 .748	114 4.488	102 4.016	24 .945	27 1.063	27 1.063	11,5 .453	23 .906	/	77 3.031	39,10	0-0	1-3
ABS1413DEFF40	3530 9403 811	06	08	10	10	38 1.496	19 .748	118 4.646	106 4.252	24 .945	27 1.063	29 1.142	11,5 .453	23 .906	/	77 3.031	39,60	0-0	1-3
ABS1413DFEE40	3530 9420 811	06	10	08	08	38 1.496	19 .748	114 4.488	102 4.016	26 1.024	27 1.063	25 .984	11,5 .453	23 .906	/	77 3.031	39,10	0-0	1-3
ABS1413DFEF40	3530 9413 811	06	10	08	10	38 1.496	19 .748	118 4.646	106 4.252	26 1.024	27 1.063	27 1.063	11,5 .453	23 .906	/	77 3.031	40,20	0-0	1-3
ABS1413DGGD45	3530 9414 811	06	12	12	06	38 1.496	19 .748	130 5.118	118 4.646	29,5 1.161	36 1.417	29,5 1.161	11,5 .453	23 .906	59 2.323	95 3.74	44,70	0-2-0	1-3
ABS1413EEFF40	3530 9407 811	08	08	10	10	38 1.496	19 .748	120 4.724	108 4.252	25 .984	27 1.063	29 1.142	12,5 .492	25 .984	/	79 3.11	39,90	0-0	1-3
ABS1413EFFG45	3530 9408 811	08	10	10	12	38 1.496	19 .748	131 5.157	119 4.685	27 1.063	29 1.142	32,5 1.28	12,5 .492	25 .984	54 1.126	83 3.268	44,50	0-2-0	1-3
ABS1413FEEF40	3530 9419 811	10	08	08	10	38 1.496	19 .748	120 4.724	108 4.252	27 1.063	25 .984	27 1.063	14,5 .571	29 1.142	/	79 3.11	40,60	0-0	1-3
ABS1413FGGG45	3530 9417 811	10	12	12	12	38 1.496	19 .748	149 5.866	137 5.394	32,5 1.28	36 1.417	36 1.417	14,5 .571	29 1.142	65 2.259	101 3.976	49,50	0-2-0	1-3
ABS1413GDEG45	3530 9415 811	12	06	08	12	38 1.496	19 .748	132 5.197	120 4.724	29,5 1.161	24 .945	30,5 1.2	18 .709	36 1.417	59 2.323	84 3.307	45,10	0-2-0	1-3

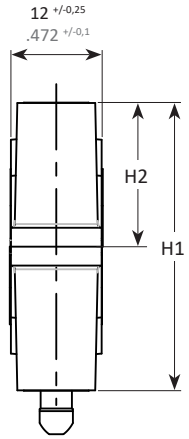
5 TUBES

5 HOLES CLAMPBLOCK

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Dash					H1 ± 0.30	H2 ± 0.15	L ± 0.5	L1 ± 0.25	A1 ± 0.25	A2 ± 0.25	A3 ± 0.25	A4 ± 0.25	B1 ± 0.25	C1 ± 0.5	C2 ± 0.5	C3 ± 0.5	C4 ± 0.5	Masse Weight g	Position	
							mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)		Vis de maintien Bolt	Clip
ABS1414DDEFE61	3530 9504 811	06	06	08	06	08	29 1.142	14,5 .571	137 5.394	125 5.921	23 .906	24 .945	27 1.063	27 1.063	11,5 .453	23 .906	/	71 2.795	100 3.937	47,70	0-3-0	1-4
ABS1414DEEDE61	3530 9506 811	06	08	08	06	08	29 1.142	14,5 .571	133 5.236	121 4.764	24 .945	25 .984	24 .945	24 .945	11,5 .453	23 .906	/	73 2.874	96 3.78	37,40	0-3-0	1-4
ABS1414DGDEF61	3530 9509 811	06	12	06	08	10	38 1.496	19 .748	148 5.827	136 5.354	29,5 1.161	29,5 1.161	24 .945	27 1.063	11,5 .453	23 .906	/	82 3.228	107 3.213	50,60	0-3-0	1-4
ABS1414EEGFE57	3530 9508 811	08	08	12	10	08	38 1.496	19 .748	152 5.984	140 5.512	25 .984	30,5 1.2	32,5 1.28	27 1.063	12,5 .492	25 .984	50 1.969	/	105 4.134	51,40	0-2-0	1-4

PEIGNES FIXÉS SUR STRUCTURE - ALLONGÉS - ZONE NORMALE
CLAMPBLOCKS FIXED ON THE STRUCTURE - ELONGATED - NORMAL ZONE





LÉGENDE

1 - Corps
2 - Demi-bride
3 - Silicone
4 - Rondelle captive
5 - Clip optionnel

CAPTION

1 - Body
2 - Half-sleeve
3 - Silicone
4 - Captive washer
5 - Optional clip

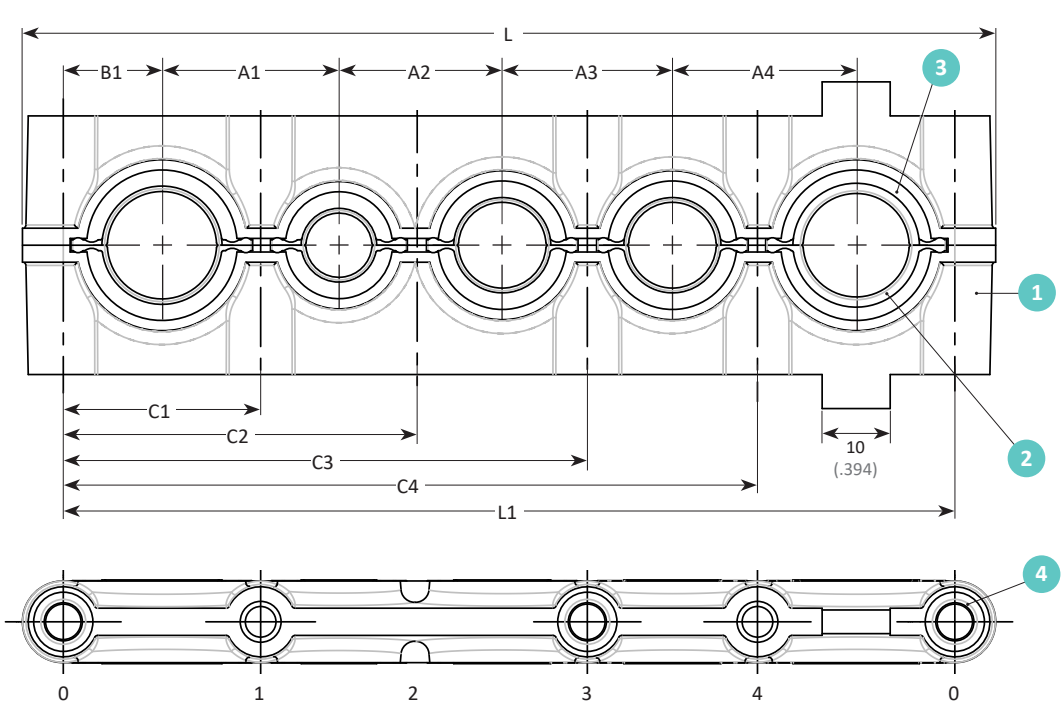
2 TUBES — 2 HOLES CLAMPBLOCK

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Dash		H1 ± 0.30	H2 ± 0.15	L ± 0.5	L1 ± 0.25	A1 ± 0.25	B1 ± 0.25	C1 ± 0.5	Masse Weight	Vis de maintien Bolt
				mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	g	
ABS1421BD20	3530 9214 831	04	06	29 1.142	14,5 .571	56 2.205	44 1.732	23 .906	9,5 .374	/	15,40	0-0
ABS1421BE20	3530 9216 831	04	08	29 1.142	14,5 .571	63 2.48	51 2.008	29 1.142	9,5 .374	/	16,60	0-0
ABS1421DD20	3530 9202 831	06	06	29 1.142	14,5 .571	59 2.323	47 1.85	24 .945	11,5 .453	/	16,40	0-0
ABS1421DE20	3530 9203 831	06	08	29 1.142	14,5 .571	66 2.598	54 2.126	30 1.181	11,5 .453	/	17,20	0-0
ABS1421EE20	3530 9205 831	08	08	29 1.142	14,5 .571	69 2.717	57 2.244	32 1.2598	12,5 .492	/	19,20	0-0
ABS1421EF20	3530 9206 831	08	10	38 1.496	19 .748	72 2.835	60 2.362	33 1.299	12,5 .492	/	23,90	0-0
ABS1421FF20	3530 9208 831	10	10	38 1.496	19 .748	76 2.992	64 2.52	35 1.378	14,5 .571	/	24,10	0-0
ABS1421FG21	3530 9209 831	10	12	38 1.496	19 .748	84,5 3.327	72,5 2.854	40 1.575	14,5 .571	34,5 1.358	28,20	0-1-0
ABS1421GG21	3530 9211 831	12	12	38 1.496	19 .748	90 3.543	78 3.071	42 1.654	18 .709	39 1.535	29,60	0-1-0

3 TUBES — 3 HOLES CLAMPBLOCK

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Dash			H1 ± 0.30	H2 ± 0.15	L ± 0.5	L1 ± 0.25	A1 ± 0.25	A2 ± 0.25	B1 ± 0.25	C1 ± 0.5	C2 ± 0.5	Masse Weight	Position	
					mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	g	Vis de maintien Bolt	Clip
ABS1422DEE30	3530 9329 831	06	08	08	29 1.142	14,5 .571	98 3.858	86 3.386	30 1.181	32 1.26	11,5 .453	26,5 1.043	57,5 2.264	26,80	0-0	1-2
ABS1422DFE30	3530 9336 831	06	10	08	38 1.496	19 .748	100 3.937	88 3.386	31 1.22	33 1.299	11,5 .453	27 1.063	59 2.323	33,10	0-0	1-2
ABS1422DGG32	3530 9345 831	06	12	12	38 1.496	19 .748	120,5 4.744	108,5 4.272	37 1.457	42 1.654	11,5 .453	/	69,5 2.736	39,00	0-1-2-0	/
ABS1422DGG33	3530 9307 831	06	12	12	38 1.496	19 .748	120,5 4.744	108,5 4.272	37 1.457	42 1.654	11,5 .453	/	69,5 2.736	38,70	0-2-0	/
ABS1422EGE32	3530 9322 831	08	12	08	38 1.496	19 .748	115 4.528	103 4.055	39 1.535	39 1.535	12,5 .492	32 1.26	71 2.795	37,90	0-1-2-0	/
ABS1422EGG32	3530 9340 831	08	12	12	38 1.496	19 .748	123,5 4.862	111,5 4.39	39 1.535	42 1.654	12,5 .492	32 1.26	72,5 2.854	39,90	0-1-2-0	/

PEIGNES NON FIXÉS SUR STRUCTURE - ZONE NORMALE
CLAMPBLOCKS NOT FIXED ON THE STRUCTURE - NORMAL ZONE



LÉGENDE

1 - Corps
2 - Demi-bride
3 - Silicone
4 - Rondelle captive

CAPTION

1 - Body
2 - Half-sleeve
3 - Silicone
4 - Captive washer

3 TUBES

3 HOLES CLAMPBLOCK

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Dash			Ergot de repérage** Device for no fixed tube on dash	H1 ± 0.30	H2 ± 0.15	L ± 0.5	L1 ± 0.25	A1 ± 0.25	A2 ± 0.25	B1 ± 0.25	C1 ± 0.5	C2 ± 0.5	Masse Weight g	Vis de maintien Bolt
						mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)		
ABS1446DDE33	3530 9328 841	06	06	08	08	29 1.142	14,5 .571	83 3.268	71 2.795	23 .906	24 .945	11,5 .453	23 .9055	46 1.811	25,00	0-2-0
ABS1446DED31	3530 9342 841	06	08	06	08	29 1.142	14,5 .571	83 3.268	71 2.795	24 .945	24 .945	11,5 .453	23 .9055	48 1.89	25,00	0-1-0
ABS1446DEF33	3530 9343 841	06	08	10	10	38 1.496	19 .748	89 3.504	77 3.031	24 .945	27 1.063	11,5 .453	23 .9055	48 1.89	31,90	0-2-0

4 TUBES

4 HOLES CLAMPBLOCK

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Dash				Ergot de repérage** Device for no fixed tube on dash	H1 ± 0.30	H2 ± 0.15	L ± 0.5	L1 ± 0.25	A1 ± 0.25	A2 ± 0.25	B1 ± 0.25	C1 ± 0.5	C2 ± 0.5	Masse Weight g	Vis de maintien Bolt
							mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)		
ABS1447DEFD45	3530 9428 841	06	08	10	06	10	38 1.496	19 .748	112 4.409	100 3.937	24 .945	27 1.063	26 1.024	11,5 .453	48 1.89	39,30	0-2-0
ABS1447DGGD45	3530 9414 841	06	12	12	06	12	38 1.496	19 .748	130 5.118	118 4.646	29,5 1.161	36 1.417	29,5 1.161	11,5 .453	59 2.323	45,60	0-2-0

5 TUBES

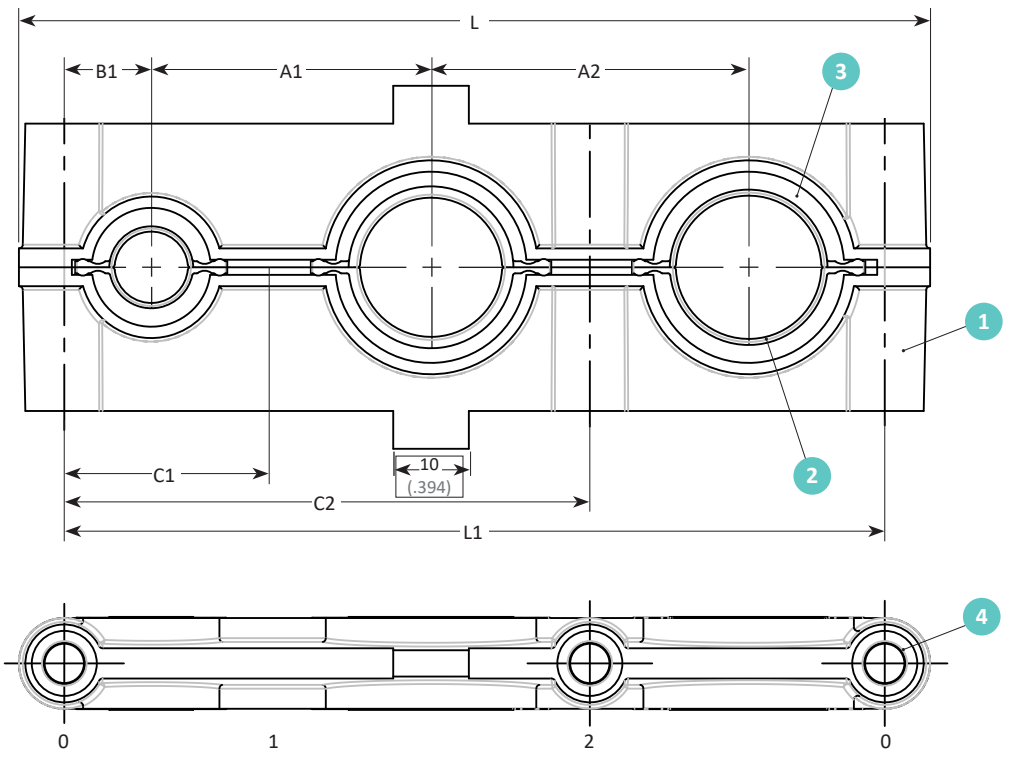
5 HOLES CLAMPBLOCK

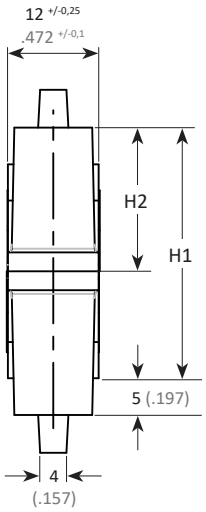
Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Dash	Ergot de repérage** Device for no fixed tube on dash	H1 ± 0.30	H2 ± 0.15	L ± 0.5	L1 ± 0.25	A1 ± 0.25	A2 ± 0.25	A3 ± 0.25	A4 ± 0.25	B1 ± 0.25	C1 ± 0.5	C2 ± 0.5	C3 ± 0.5	C4 ± 0.5	Masse Weight g	Position	
				mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)		Vis de maintien Bolt	Clip
ABS-1448FDEEF61	3530 9507 841	10/06/08/08/10	10 (sur le dernier tube / last in the pipe size code)	38 1.496	19 .748	143 5.63	131 5.157	26 1.024	24 .945	25 .984	27 1.063	14,5 0.57	29 1.142	/	77 3.031	102 4.016	39,40	0-3-0	1-4

** Indique la bride qui exerce la force de serrage la plus importante pour l'ensemble du peigne non fixé sur structure. Cette force s'applique toujours sur le tuyau ayant le plus grand diamètre.

** Indicates the sleeve which exerts the most important clamping force for the whole clampblock not fixed on the structure. This force is always applied on the pipe which have the largest diameter.

PEIGNES NON FIXÉS SUR STRUCTURE - ALLONGÉS - ZONE NORMALE
CLAMPBLOCKS NOT FIXED ON THE STRUCTURE - ELONGATED - NORMAL ZONE





LÉGENDE

1 - Corps
2 - Demi-bride
3 - Silicone
4 - Rondelle captive

CAPTION

1 - Body
2 - Half-sleeve
3 - Silicone
4 - Captive washer

3 TUBES

3 HOLES CLAMPBLOCK

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Dash			Ergot de repérage** Device for no fixed tube on dash	H1 ± 0.30 mm (inch)	H2 ± 0.15 mm (inch)	L ± 0.5 mm (inch)	L1 ± 0.25 mm (inch)	A1 ± 0.25 mm (inch)	A2 ± 0.25 mm (inch)	B1 ± 0.25 mm (inch)	C1 ± 0.5 mm (inch)	C2 ± 0.5 mm (inch)	Masse Weight g	Vis de maintien Bolt
ABS1479DGG32	3530 9345 861	06	12	12	12 milieu de peigne middle on the clampblock	38 1.496	19 .748	120,5 4.744	108,5 4.272	37 1.457	42 1.654	11,5 .453	30 1.181	69,5 2.736	40,90	0-1-2-0
ABS1479DGG33	3530 9307 861	06	12	12	12 milieu de peigne middle on the clampblock	38 1.496	19 .748	120,5 4.744	108,5 4.272	37 1.457	42 1.654	11,5 .453	/	69,5 2.736	40,10	0-2-0
ABS1479EGE32	3530 9322 861	08	12	08	12	38 1.496	19 .748	115 4.528	103 4.055	39 1.535	39 1.535	12,5 .492	32 1.26	71 2.795	37,70	0-1-2-0

** Ergot de repérage : indique la bride qui exerce la force de serrage la plus importante pour l'ensemble du peigne non fixé sur structure. Cette force s'applique toujours sur le tuyau ayant le plus grand diamètre.

** Indicates the sleeve which exert the most important clamping force for the whole clampblock non fixed on the structure. This force is always applied on the pipe which have the largest diameter.

PROCÉDURE DE MONTAGE
MOUNTING PROCESS

Placer les écrous et les visser sans serrer. Commencer le serrage à partir de la colonnette du côté du point d'injection et visser l'une après l'autre vers le côté opposé avec un couple de serrage de 0,42 daNm en utilisant un écrou NSA 5050 (non fourni).

Dans l'utilisation de peignes symétriques, les points d'injection des 2 demi-peignes doivent être placés du même côté.

Autres caractéristiques suivant ABS1415.

Insert all the bolts and screw them without torquing. Begin to torque the bolt by the side of the injection point and go on by the next screw and so with a torque value of 0.42 daNm using a NSA 5050 nut (to be ordered separately).

In case of symmetrical clampblocks, both half-clamps shall be mounted with the injection point of the bodies in the same side.

Other characteristics according to ABS1415.

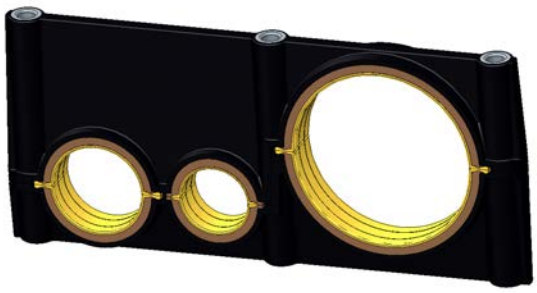
PEIGNES SPÉCIFIQUES
SPECIFIC CLAMPBLOCKS

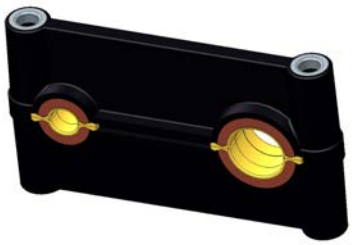
Des peignes monobloc thermoplastiques spécifiques peuvent être réalisés sur demande.
Merci de nous consulter pour plus d'informations.

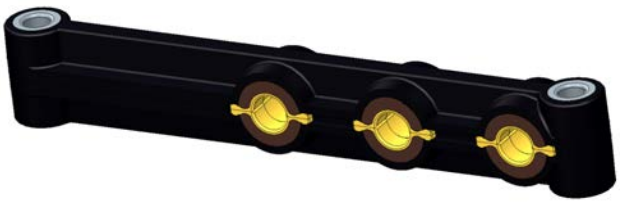
Ci-dessous quelques exemples de peignes spécifiques.

Some specific thermoplastic clampblocks can be realised on request. Please contact us for more information.

Below some examples of specific clampblocks.







RÉFÉRENTIEL
PART NUMBER TABLE

AIR-LB	ABS	Page
35309101811	ABS1409B	7
35309101822	ABS1408B	6
35309102811	ABS1409D	7
35309102822	ABS1408D	6
35309103811	ABS1409E	7
35309103822	ABS1408E	6
35309104811	ABS1409F	7
35309104822	ABS1408F	6
35309105811	ABS1409G	7
35309105822	ABS1408G	6
35309106811	ABS1409H	7
35309107811	ABS1409J	7
35309108811	ABS1409P	7
35309109811	ABS1409K	7
35309201811	ABS1411BB20	7
35309202811	ABS1411DD20	7
35309202831	ABS1421DD20	10
35309203811	ABS1411DE20	7
35309203831	ABS1421DE20	10
35309204811	ABS1411DF20	7
35309204822	ABS1410DF20	6
35309205811	ABS1411EE20	7
35309205822	ABS1410EE20	6
35309205831	ABS1421EE20	10
35309206811	ABS1411EF20	7
35309206822	ABS1410EF20	6
35309206831	ABS1421EF20	10
35309207811	ABS1411EG20	7
35309208811	ABS1411FF20	7
35309208822	ABS1410FF20	6
35309208831	ABS1421FF20	10
35309209811	ABS1411FG20	7
35309209831	ABS1421FG21	10
35309210811	ABS1411FH20	7
35309211811	ABS1411GG20	7
35309211831	ABS1421GG21	10
35309212811	ABS1411GH20	7
35309214811	ABS1411BD20	7
35309214831	ABS1421BD20	10
35309215811	L00030 111 000	7
35309216831	ABS1421BE20	10
35309302811	ABS1412DDD30	8
35309305811	ABS1412DEF30	8
35309307831	ABS1422DGG33	10
35309307861	ABS1479DGG33	12
35309310811		8

AIR-LB	ABS	Page
35309312811	ABS1412EFF30	8
35309314811	ABS1412FFG30	8
35309315811	ABS1412DDH30	8
35309316811	ABS1412DGF30	8
35309317811	ABS1412FEG30	8
35309318811	ABS1412DED30	8
35309319811	ABS1412DDF30	8
35309320811	ABS1412EEF30	8
35309321811	ABS1412HGH30	8
35309322811	ABS1412EGE30	8
35309322831	ABS1422EGE32	10
35309322861	ABS1479EGE32	12
35309323811	ABS1412FEH30	8
35309324811	ABS1412FFF30	8
35309325811	ABS1412FDH30	8
35309327811	ABS1412EFE30	8
35309328811	ABS1412DDE30	8
35309328841	ABS1446DDE33	11
35309329811	ABS1412DEE30	8
35309329831	ABS1422DEE30	10
35309330811	L00030 111 001	8
35309331811	L00030 111 002	8
35309336811	ABS1412DFE30	8
35309336831	ABS1422DFE30	10
35309337811	ABS1412EEG30	8
35309340831	ABS1422EGG32	10
35309341811		8
35309342841	ABS1446DED33	11
35309343841	ABS1446DEF33	11
35309345831	ABS1422DGG32	10
35309345861	ABS1479DGG32	12
35309348811	ABS1412BDE30	8
35309349811	ABS1412BFD30	8
35309401811	ABS1413DEFD40	9
35309402811	ABS1413DEFE40	9
35309403811	ABS1413DEFF40	9
35309407811	ABS1413EEFF40	9
35309408811	ABS1413EFFG40	9
35309413811	ABS1413DFEF40	9
35309414811	ABS1413DGGD40	9
35309414841	ABS1447DGGD45	11
35309415811	ABS1413GDEG40	9
35309417811	ABS1413FGGG40	9
35309418811	ABS1413DDEE40	9
35309419811	ABS1413FEEF40	9

AIR-LB	ABS	Page
35309420811	ABS1413DFEE40	9
35309422811	ABS1413DDDD40	9
35309423811	ABS1413DDEF40	9
35309424811	ABS1413DDDE40	9
35309428841	ABS1447DEFD45	11
35309430811		9
35309504811	ABS1414DDEFE61	9
35309506811	ABS1414DEEDE61	9
35309507841	ABS1448FDEEF61	11
35309508811	ABS1414EEGFE61	9
35309509811	ABS1414DGDEF61	9

Amphenol Air LB

Your Satisfaction. Everyday. Everywhere.

Clampblocks on axis alignment

Peignes à alignement axial

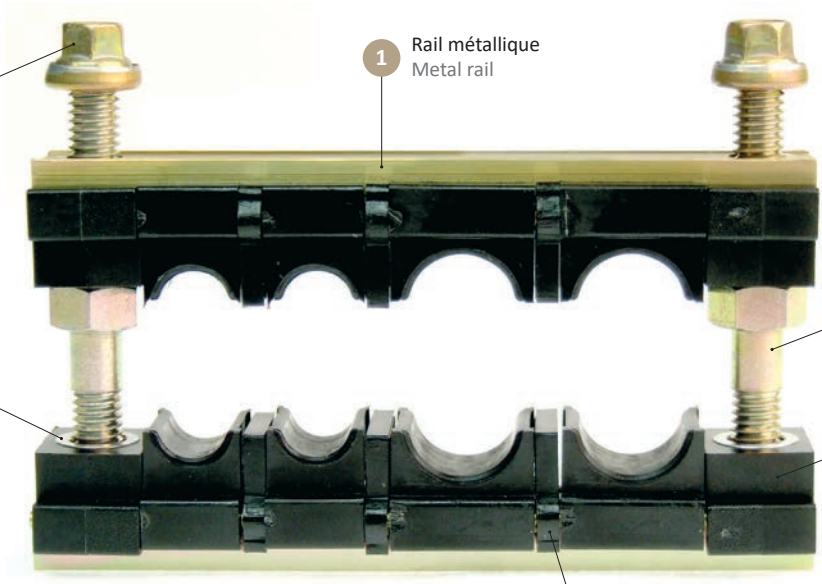


PIPE CLAMPS

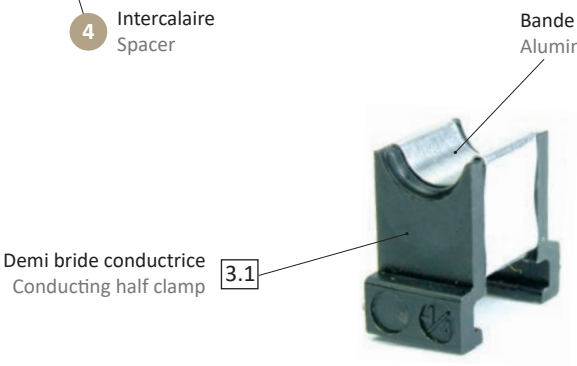
PEIGNES & SUPPORTS DE TUYAUTERIE

Product Catalogue 09/24 - V2.1

PRÉSENTATION
PRESENTATION







Ce type de peigne support de tuyauterie à alignement axial est composé de deux demi-peignes symétriques, un côté structure, un côté couvercle.

Il existe en plusieurs versions : modulaire démontable STM, modulaire semi-monobloc STSM, conducteur et non conducteur, pour tuyauteries métriques ou inches.

Les peignes STM se procurent en pièces détachées ou préparés en peignes démontables.

Les peigne STSM se procurent uniquement montés, non démontables. Dans ce cas, les butées d'arrêt d'extrémité sont fixées par poinçonnage sur le support métallique.

Les peignes conducteurs sont constitués de demi-brides conductrices 3.1 côté structure et de demi-brides simples 3.2 côté couvercle.

Les peignes non conducteurs sont composés de demi-brides 3.3 et 3.2 ou 3.2 de chaque côté.

Les demi-brides sont moulées en thermoplastique noir protégé chaleur. Conductrices, elles sont munies d'un système élastique à ressorts et d'une bande métallique qui assurent une double fonction :
- La mise à la masse par pression sur le rail métallique
- L'absorption des tolérances des diamètres des tuyauteries.

This type of clampblock assemblies consists of symmetrical pairs of half clamps, one on the structure side, the other on the cover side. The pipes are aligned with their centres on the same axis.

Several variants are available: modular STM, semi-modular STSM, conducting or non-conducting, for either metric or imperial dimensions.

STM clamps can either be supplied in component form or as assemblies which can be disassembled.

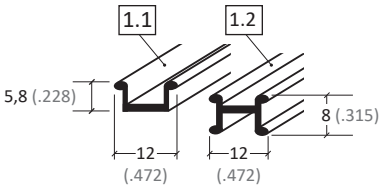
STSM clamps are only available in assembled form with the end clamps secured onto the metal rail.

Conducting clamp are made up from conducting half clamps on the structure side 3.1 and simple half clamps on the cover side 3.2.

The non-conducting pipe clamp assemblies are made up from half clamps 3.3 and 3.2 or 3.2 on both sides.

The half clamps are moulded from black thermoplastic heat resistant. The conducting variants are fitted with springs and a metal band witch fulfills two functions:
- Earthing connection due to pressure contact with the metal rail
- Compensation for pipe diameter tolerance.

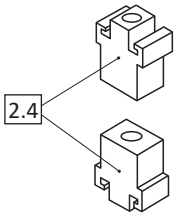
1 RAIL MÉTALLIQUE



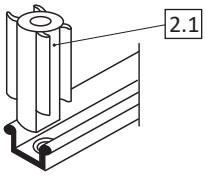
1 METAL RAIL

2 BUTÉE D'ARRÊT

Les butées d'arrêt 2 sont réalisées pour limiter un serrage constant du peigne côté couvercle et des tuyauteries. Cela permet aux tuyauteries de coulisser légèrement sur le berceau des demi-brides.



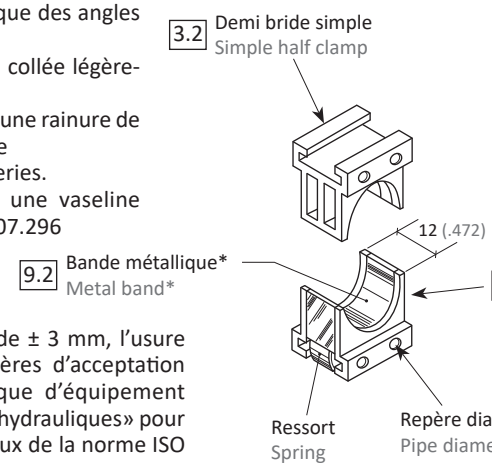
2 END STOP



The end stop 2 are designed to restrict the constant pressure on the cover side clamp and the pipes, permitting the pipes to slide in the half clamps to a limited degree.

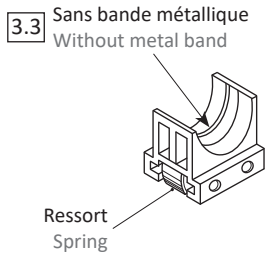
3 DEMI BRIDE

Le berceau de chaque demi-bride qui reçoit les tuyauteries ne possède que des angles arrondis.
3.1 La bande métallique est collée légèrement en saillie.
3.2 3.3 Le berceau possède une rainure de 4 mm qui retient le graissage du coulissement des tuyauteries.
Nous conseillons d'utiliser une vaseline RECTAPURE blanche N°28.907.296 de chez PROLABO Paris.



Après 50 000 manoeuvres de ± 3 mm, l'usure constatée satisfait aux critères d'acceptation de la spécification technique d'équipement N° A 310/29/1007 «Peignes hydrauliques» pour l'aéronautique, ainsi qu'à ceux de la norme ISO 7661.

3 HALF CLAMP



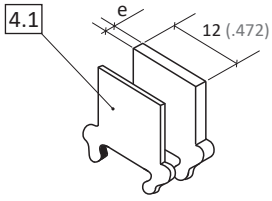
All the edges of the half clamp cradle are rounded.
3.1 metal strip is glued so that it protrudes slightly.
3.2 3.3 the cradle has a grove of .157 inch that retains the sliding grease of the pipes.
We recommend the use of vaseline recapture white N° 28.907.296 from PROLABO Paris.

After 50 000 movements of ± .118 inch, the measured wear meets acceptance requirements of Technical Equipment Specification N° A 310/29/307 HYDRAULIC PIPE CLAMPS for aeronautics, as well as ISO 7661.

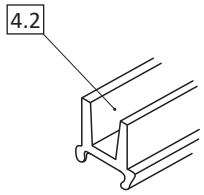
9.2 Bande métallique* | détails page 52
Metal band* | details on page 52

4 INTERCALAIRE

Des intercalaires 4 moulés en matière plastique sont prévus pour augmenter les entraxes et les écartements des tuyauteries.



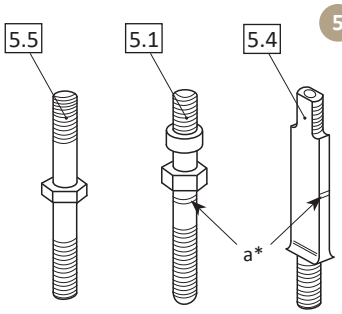
4 SPACER



Spacers 4 which are moulded in plastic, are available for increasing centre to centre spacing and for separating pipes.

5 VIS DE FIXATION

Les vis de fixation 5 sont réalisées pour permettre d'implanter à l'avance tous les peignes structure.



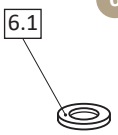
5 MOUNTING SCREW

The mounting screws 5 are designed to allow all the structure side half clamps to be fitted first.

a* Repères ISO inches
UNF ident marking

6 RONDELLE (TYPE 400 000)

Des rondelles 6 acier cadmié bichromaté de 0,8 mm d'épaisseur sont indispensables uniquement pour le type 400000. Elles prennent place sur les butées d'arrêt du peigne côté structure.



6 WASHER (400 000 SERIES)

The washers 6 are dichromated cadmium plated steel .315 inch thick. Solely for the type 400000. On the structure side end stop.

7 ÉCROU

Les écrous 7 des vis de fixation sont à rondelles imperdables, en métrique ou en inches.



7 NUT

The nuts 7 are for use with the fixing screws and have retained washers. Both metric and imperial types are available.

Les peignes ST permettent de maintenir des tuyauteries de même diamètre ou de diamètres différents dans trois montages :

NORMAL – JUXTAPOSE – SUPERPOSE

Ces montages sont réalisés en trois séries de hauteur différente.

Le tableau ci-dessous permet de choisir la série en fonction des diamètres des tuyauteries que l'on désire assembler.

ST clamps allow pipes of the same or different diameters to be assembled in three ways:

NORMAL – MIXED – TWO TIER

These assemblies are available in three height ranges.

The table below allows the correct range of parts to be selected according to the pipe diameter used.

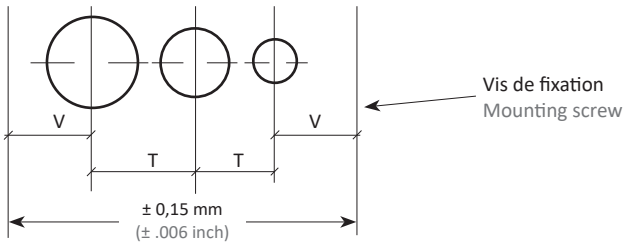
Montage Mounting	Série Group	H2 Max (mm / inch)	Diamètre tuyauterie / Pipe diameter Métrique / Inches											
			4		6	8	10	12		16		20	25		32
			3/16		1/4	5/16	3/8	1/2		5/8		3/4	1		1/1/4
Normal Standard	412	26,8 1.055	X		X	X	X	X							
	420	34,6 1.362	X		X	X	X	X		X		X			
	432	48,2 1.898	X		X	X	X	X		X		X	X		X
Superposé Two tier	412 / 412	50,3 1.98	X		X	X	X	X							
	420 / 420	65,9 2.594	X		X	X	X	X		X		X			

JUXTAPOSE = NORMAL DANS LA SERIE

MIXED=NORMALINTHERANGE

ENTRAXES DE MONTAGE

CENTRE TO CENTRE IN THE ASSEMBLY



ENTRAXE V – ENTRE LA VIS DE FIXATION ET LA TUYAUTERIE

CENTRE TO CENTRE V – BETWEEN MOUNTING SCREW AND PIPES

Diamètres tuyauterie Pipe diameter	mm	4	6	8	10	12	16	20	25	32
	inch	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1/1/4
V	mm	9,5	9,5	10,5	11,5	12,5	14,5	16,5	19,5	22,5
	inch	.374	.374	.413	.453	.492	.571	.65	.768	.886

ENTRAXE T – ENTRE LES TUYAUTERIES SANS INTERCALAIRES

CENTRE TO CENTRE T – BETWEEN PIPES WITHOUT SPACER

Diamètres tuyauterie Pipe diameter	mm	4	6	8	10	12	16	20	25	32
mm	inch.	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1/1/4
4	3/16	9 (.354)	9 (.354)	10 (.394)	11 (.433)	12 (.472)	14 (.551)	16 (.63)	18,5 (.728)	22 (.866)
6	1/4	9 (.354)	9 (.354)	10 (.394)	11 (.433)	12 (.472)	14 (.551)	16 (.63)	18,5 (.728)	22 (.866)
8	5/16	10 (.394)	10 (.394)	11 (.433)	12 (.472)	13 (.512)	15 (.591)	17 (.669)	19,5 (.768)	23 (.906)
10	3/8	11 (.433)	11 (.433)	12 (.472)	13 (.512)	14 (.551)	16 (.63)	18 (.709)	20,5 (.807)	24 (.949)
12	1/2	12 (.472)	12 (.472)	13 (.512)	14 (.551)	15 (.591)	17 (.669)	19 (.748)	21,5 (.846)	25 (.984)
16	5/8	14 (.551)	14 (.551)	15 (.591)	16 (.63)	17 (.669)	19 (.748)	21 (.827)	23,5 (.925)	27 (1.063)
20	3/4	16 (.63)	16 (.63)	17 (.669)	18 (.709)	19 (.748)	21 (.827)	23 (.906)	25,5 (1.004)	29 (1.142)
25	1	18,5 (.728)	18,5 (.728)	19,5 (.768)	20,5 (.807)	21,5 (.846)	23,5 (.925)	25,5 (1.004)	28 (1.102)	31,5 (1.24)
32	1/1/4	22 (.866)	22 (.866)	23 (.906)	24 (.949)	25 (.984)	27 (1.063)	29 (1.142)	31,5 (1.24)	35 (1.378)

CARACTÉRISTIQUES TECHNIQUES
TECHNICAL DATA

TYPES 400 000 - 450 000 N - 455 000

Tous ces types sont conformes aux spécifications techniques de l'aéronautique N° 459 535 / 79 et 423 018 / 78.

TENUE AU FEU

Eléments non métalliques moulés, suivant FAR 25 chapitre 25 853 paragraphe b.

TEMPÉRATURE

Utilisation :	normale	:	-40° à +100° C
	temporaire	:	-40° à +120° C
	exceptionnelle	:	-50° à +150° C

COULISSEMENT DES TUYAUTERIES

Après 50 000 manoeuvres de ± 3mm, l'usure constatée satisfait aux critères d'acceptation de la spécification technique d'équipement N° A 310/29/1007 «peignes hydrauliques» pour l'aéronautique, ainsi qu'à ceux de la norme ISO 7661.

SUPPORT MÉTALLIQUE

Alliage aluminium série 6000
Protection :
peignes conducteurs : Alodine 1200 conductrice
peignes non conducteurs : Oxydation anodique bichromaté

VIS DE FIXATION

Acier classe 8.8 cadmié bichromaté
Titane TA.6V oxydé anodiquement
Couple de serrage : 3,5 mN

MATIÈRE MOULÉE

Thermoplastique protégé chaleur.

CARACTÉRISTIQUES ÉLECTRIQUES

Peignes ST conducteurs (type 400 000 et 455 000).

RÉSISTANCE DE CONTACT

Entre tuyauterie et entre tuyauterie et structure : inférieure à 150 milliohms.
(Demi-brides conductrices munies d'une bande aluminium pur à 99% et d'un ressort en acier cadmié bichromaté).

TYPES 400 000 - 450 000 N - 455 000

The entire series conforms to aeronautics technical specifications N° 459 535 / 79 and 423 018 / 78.

RESISTANCE TO FIRE

Moulded non-metallic components, in accordance with FAR 25 chapter 25 853 paragraph b.

TEMPERATURE

Operating:	normal	:	-40° to +100° C
	temporary	:	-40° to +120° C
	exceptional	:	-50° to +150° C

PIPE SLIPPAGE

Following 50 000 movements of ± .118 inch the measured wear met the acceptance criteria of Equipment Technical Specification N° A 310/29/1007 «Hydraulic Pipe clamps» for aeronautics, as well as ISO 7661.

METAL RAIL

Aluminium alloy 6000 series
Protection:
conducting clamps: conducting alodine 1200
non-conducting clamps: anodized and dichromated

MOUNTING SCREW

Steel class 8.8 dichromated cadmium plated
Titanium TA.6V anodized
Tightening torque: 3,5 mN

MOULDED PARTS

Heat stabilized thermoplastic.

ELECTRICAL CHARACTERISTICS

ST conducting type rails (400 000 and 455 000 series).

CONTACT RESISTANCE

Less than 150 milliohms between pipes and between pipes and structure.
(conducting half clamps fitted with a pure (99%) aluminum stripe, and a dichromated cadmium plated steel spring).



SYSTÈME DE RÉFÉRENCE
PART NUMBERING SYSTEM

CODE DE DÉSIGNATION

ST : Support de Tuyauteries

STM : Support de Tuyauteries à peignes Modulaires

STSM : Support de Tuyauteries à peignes Semi-Monoblocs

Vis de fixation : **A** métrique, **B** inches

ALIGNEMENT TANGENTIEL C D E

TYPES

C peigne STM «modulaire simple»
non conducteur.....95 000 C
CR fixation déportée.....95 000 CR
D peigne STM «modulaire conducteur»
conducteur côté couvercle.....95 000 D
DR fixation déportée.....95 000 DR
E conducteur côté structure .....195 000 E

ALIGNEMENT AXIAL H N

peigne STM «modulaire démontable conducteur»
conducteur à ressorts, côté structure.....400 000

H peigne STSM «semi monobloc simple»
non conducteur (sans ressort).....450 000 H
peigne STSM «semi monobloc conducteur»
conducteur à ressorts côté structure.....455 000
N peigne STSM «semi-monobloc non conducteur»
à ressorts côté structure .....450 000 N

ORDER CODE

ST : Pipe clamp

STM : Modular pipe clamp assembly

STSM : Semi-monoblock pipe clamp assembly

Mounting screws: **A** metric, **B** imperial

TANGENTIAL ALIGNMENT C D E

TYPES

C STM Simple modular clamp
non conducting .....95 000 C
CR remote mounting.....95 000 CR
D STM Modular conducting clamp
conductor cover side.....95 000 D
DR remote mounting .....95 000 DR
E conductor on structure side .....195 000 E

ON AXIS ALIGNMENT H N

STM modular conducting clamp
spring conductor on structure side.....400 000

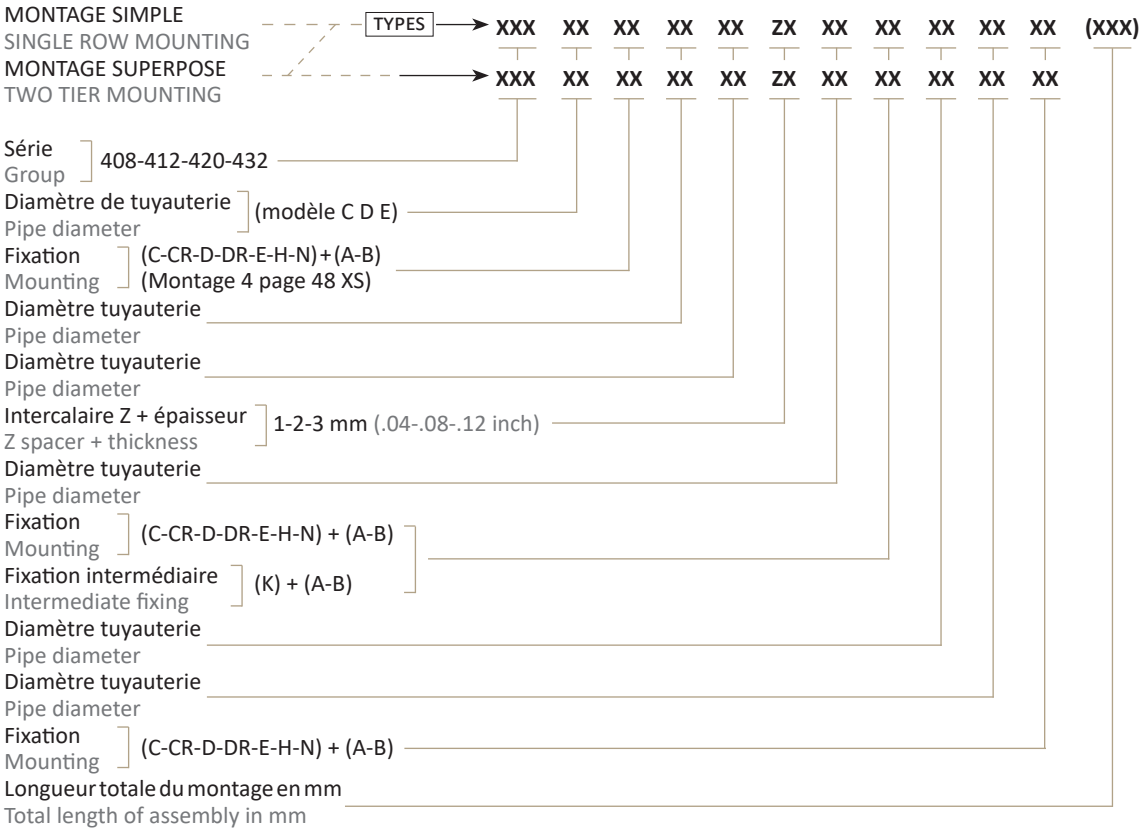
H STSM semi-monoblock simple clamp
non conducting (without spring) .....450 000 H
STSM semi-monoblock conducting clamp
spring conductor on structure side.....455 000
N STSM semi-monoblock non conducting clamp
spring on structure side .....450 000 N

DÉFINITION D'UN PEIGNE

L'utilisation de cette définition augmente la rapidité d'une consultation auprès de nos services techniques et commerciaux.

SPECIFYING A CLAMPBLOCK ASSEMBLY

This table should be used to prepare a complete assembly specification. Please contact us for technical information or quotation.

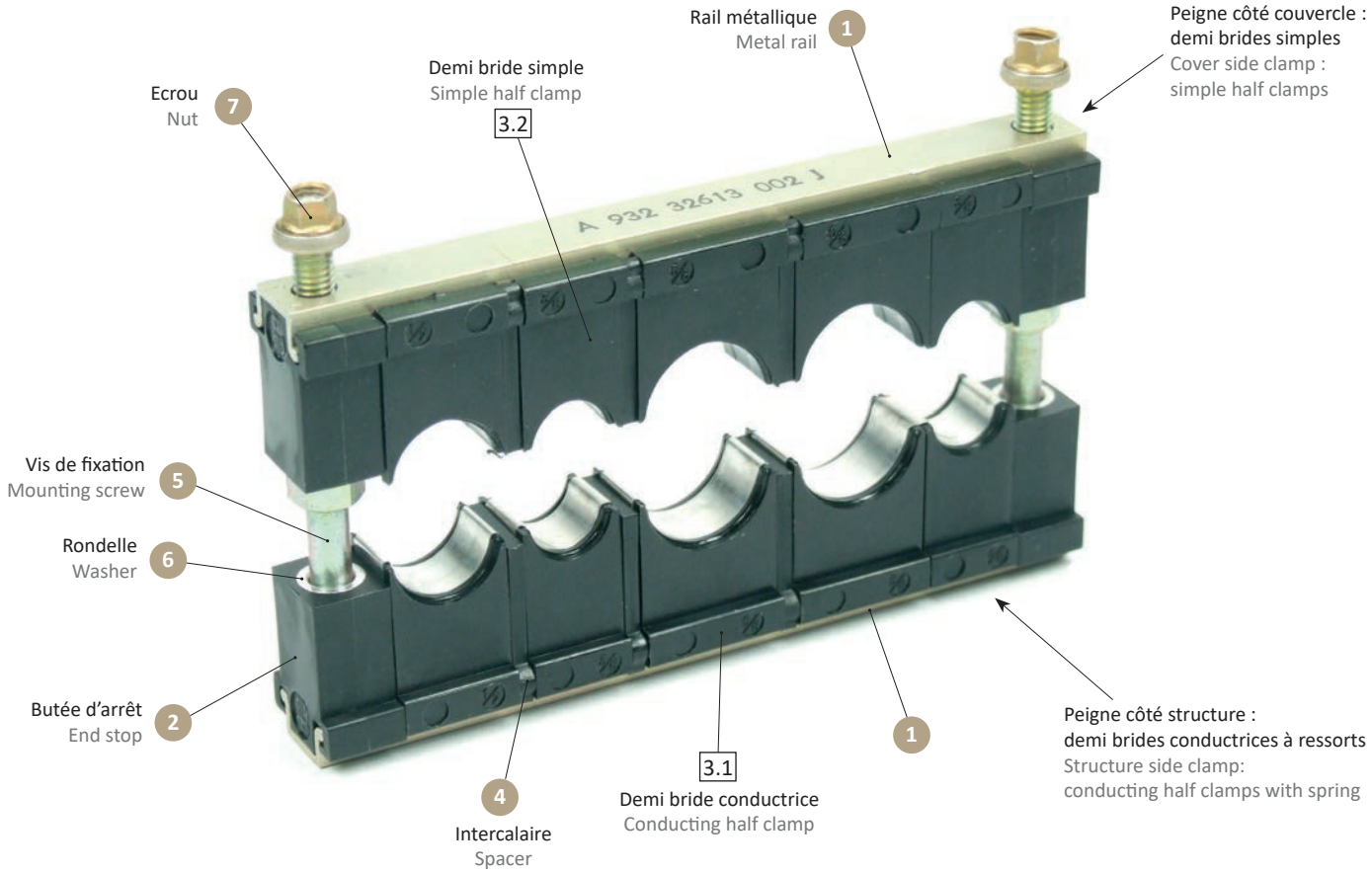


Les montages **juxtaposés** ou **particuliers** doivent faire l'objet d'un plan.

Special assemblies should also be defined by a drawing.

PEIGNE STM MODULAIRE - CONDUCTEUR - TYPE 400 000
STM MODULAR CONDUCTING CLAMPBLOCKS - TYPE 400 000

PEIGNE CONDUCTEUR – A RESSORTS COTE STRUCTURE
CONDUCTING CLAMP – STRUCTURE SIDE SPRING



Le type 400 000 est composé d'éléments modulaires démontables.

Avec cette version, les peignes côté couvercle sont équipés de demi-brides simples 3.2 et côté structure de demi-brides conductrices 3.1 avec ressorts.

Ce type de peigne STM est approvisionné en pièces détachées pour les maquettes et les prototypes, en peignes assemblés lors de la série par exemple.

Les peignes STM doivent faire l'objet d'une définition Amphenol Air LB (page 20) ou d'un dessin s'ils sont spéciaux.

Le type 400 000 est interchangeable avec toutes les versions à alignement axial.

Ce modèle peut être équipé de demi-brides non conductrices, avec ressorts, côté structure (page 36).

Type conforme à la spécification technique d'équipement N°A 310/29/1007 «peignes hydrauliques» pour A300-A310-A320 de l'aérospatial, ainsi qu'à ceux de l'ISO 7661.

The 400 000 type is made of modular components which can be disassembled.

In this version, simple clamps are used on the cover side 3.2, and spring conducting clamps 3.1 are used on the structure side.

STM clampblocks assemblies are supplied in component form for models and prototypes, and in assembled form for productions orders.

Complete STM assemblies should be designated by means of the specifying table on page 20, and if special they should be defined by means of a drawing.

Type 400 000 parts are interchangeable with the other on axis series.

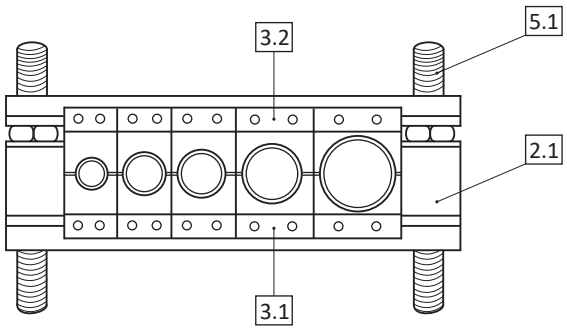
It is also possible to fit spring non-conducting half clamps on the structure side (page 36).

This type conforms to aerospacial technical specification N° A 310/29/1007 «hydraulic pipe clamp» for A300-A310-A32 as well as ISO 7661.

MONTAGE NORMAL
NORMAL MOUNTING

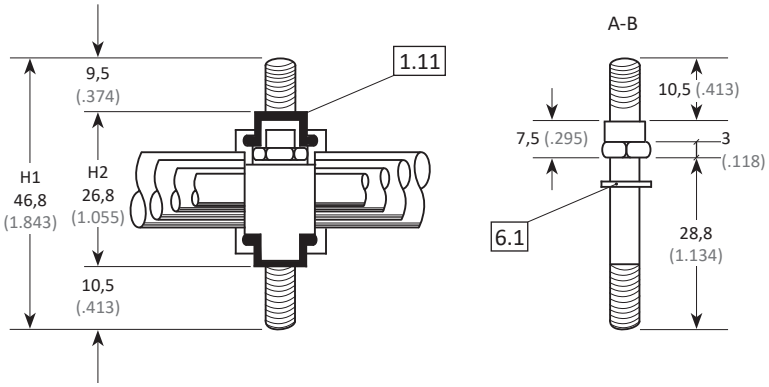
SÉRIE 412

Diamètres 4-6-8-10-12



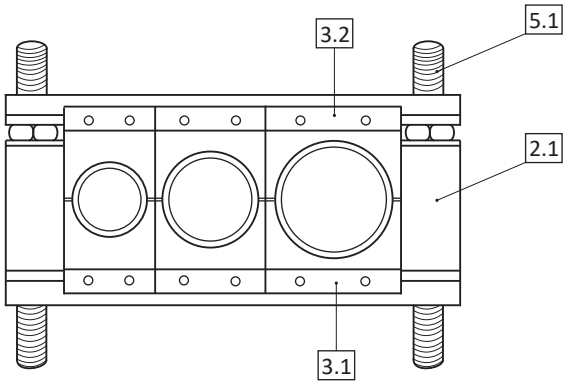
412 SERIES

Diameters 3/16-1/4-5/16-3/8-1/2



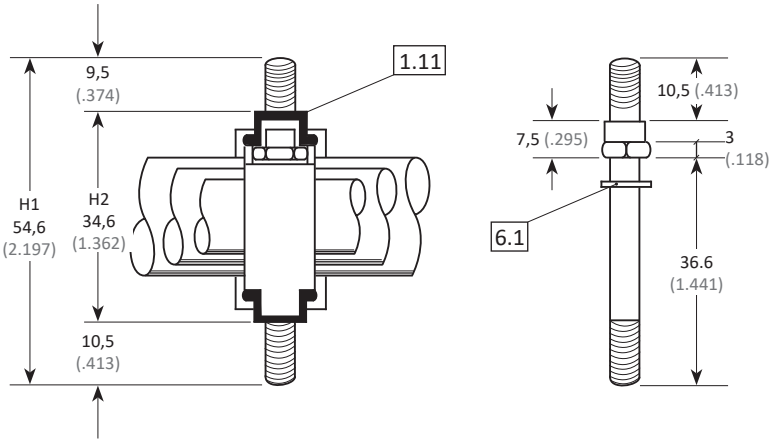
SÉRIE 420

Diamètres 4-6-8-10-12-16-20



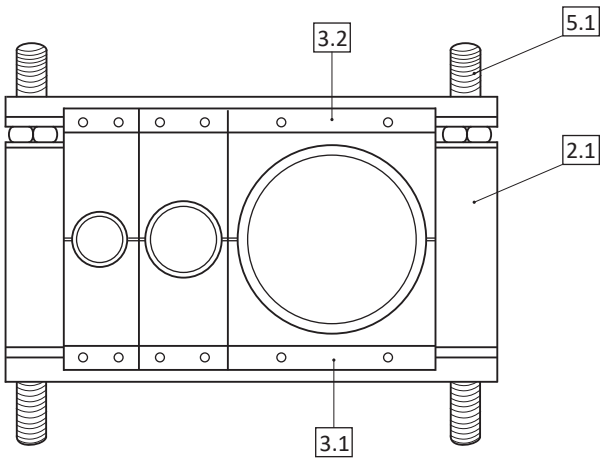
420 SERIES

Diameters 3/16-1/4-5/16-3/8-1/2-5/8-3/4



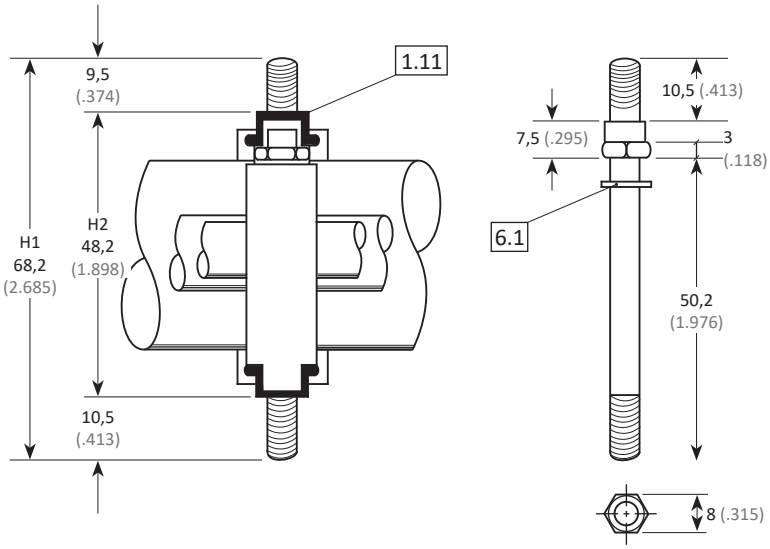
SÉRIE 432

Diamètres 4-6-8-10-12-16-20-25-32



432 SERIES

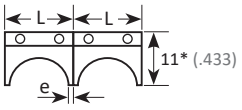
Diameters 3/16-1/4-5/16-3/8-1/2-5/8-3/4-1''-1''1/4

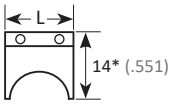


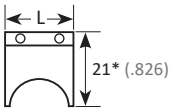
DEMI-BRIDES MÉTRIQUES

METRIC HALF CLAMPS

Demi-brides simples non conductrices côté couvercle
3.2
Simple non conducting half clamps cover side







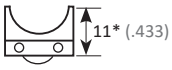
Ø tuyauterie Pipe diameter		e		L	
mm	inch	mm	inch	mm	inch
4	.157	2,5	.098	9	.354
6	.236	1,5	.059	9	.354
8	.315	1,5	.059	11	.433
10	.394	1,5	.059	13	.512
12	.472	1,5	.059	15	.591
14	.551	1,5	.059	19	.748
16	.63	1,5	.059	19	.748
18	.709	1,5	.059	21	.827
20	.787	1,5	.059	23	.906
25	.984	1,5	.059	28	1.102
32	1.26	1,5	.059	35	1.38

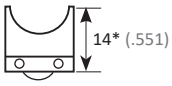
Série Series	412
Référence Part number	Masse Weight g
412304 000 33	0,70
412306 000 33	0,65
412308 000 33	0,75
412310 000 33	0,85
412312 000 33	0,95

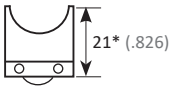
Série Series	420
Référence Part number	Masse Weight g
420304 000 33	1,00
420306 000 33	0,90
420308 000 33	1,15
420310 000 33	1,25
420312 000 33	1,35
420314 000 33	
420316 000 33	1,55
420318 000 33	
420320 000 33	1,70

Série Series	432
Référence Part number	Masse Weight g
432304 000 33	1,5
432306 000 33	1,35
432308 000 33	1,65
432310 000 33	1,90
432312 000 33	2,10
432314 000 33	
432316 000 33	2,60
432318 000 33	
432320 000 33	3,10
432325 000 33	3,10
432332 000 33	3,50

Demi-bride conductrice côté structure
3.1
Conducting half clamps structure side







Ø tuyauterie Pipe diameter		e		L	
mm	inch	mm	inch	mm	inch
4	.157	2,5	.098	9	.354
6	.236	1,5	.059	9	.354
8	.315	1,5	.059	11	.433
10	.394	1,5	.059	13	.512
12	.472	1,5	.059	15	.591
14	.551	1,5	.059	19	.748
16	.63	1,5	.059	19	.748
18	.709	1,5	.059	21	.827
20	.787	1,5	.059	23	.906
25	.984	1,5	.059	28	1.102
32	1.26	1,5	.059	35	1.38

Série Series	412
Référence Part number	Masse Weight g
412404 000 33	1,20
412406 000 33	1,15
412408 000 33	1,25
412410 000 33	1,35
412412 000 33	1,45

Série Series	420
Référence Part number	Masse Weight g
420404 000 33	1,50
420406 000 33	1,40
420408 000 33	1,60
420410 000 33	1,80
420412 000 33	2,10
420414 000 33	
420416 000 33	2,45
420418 000 33	
420420 000 33	2,55

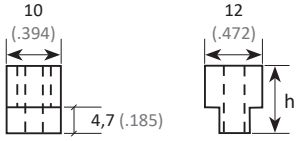
Série Series	432
Référence Part number	Masse Weight g
432404 000 33	2,00
432406 000 33	1,90
432408 000 33	2,20
432410 000 33	2,50
432412 000 33	3,00
432414 000 33	
432416 000 33	3,50
432418 000 33	
432420 000 33	4,00
432425 000 33	4,00
432432 000 33	4,50

* Dimension approximative pour cause de jeux.

* Rough dimension only.

ACCESSOIRES

ACCESSORIES

1.11	Rail métallique standard Standard metal rail (le/the m)		021151 002 09	57,50	021151 002 09	57,50	021151 002 09	57,50
4.1	Intercalaire Spacer	1 mm (.039 inch)	412501 000 34	0,12	420501 000 34	0,12	432501 000 34	0,12
		2 mm (.079 inch)	412502 000 34	0,21	420502 000 34	0,21	432502 000 34	0,21
		3 mm (.118 inch)	412503 000 34	0,31	420503 000 34	0,31	432503 000 34	0,31
		10 mm (.394 inch)	412510 000 34	0,88	420510 000 34	0,88	432510 000 34	0,88
5.1	Vis acier (Métrique) Steel screw		412770 935 86 PEQ	7,20	420770 935 86 PEQ	8,30	432770 935 86 PEQ	10,30
	Vis titane (Métrique) Titanium screw		412660 935 62	4,30	420660 935 62	5,00	432660 935 62	6,30
6.1	Rondelle / Washer		091033 000 86 PEQ	0,30	091033 000 86 PEQ	0,30	091033 000 86 PEQ	0,30
7.2	Ecrou / Nut	Simloc	000801 050 61	1,20	000801 050 61	1,20	000801 050 61	1,20
2.1	Butée d'arrêt / End stop 		412600 162 77 h = 16,2 mm (.638 inch)	2,20	420600 240 77 h =24 mm (.945 inch)	3,40	432600 376 77 h = 37,6 mm (1.48 inch)	5,50

DEMI-BRIDES INCHES

IMPERIAL HALF CLAMPS

3.2 demi-brides simples non conductrices côté couvercle

3.2 simple non conducting half clamps cover side

Ø tuyauterie Pipe diameter		e		L	
inch	mm	inch	mm	inch	mm
3/16	4,76	.098	2,5	.354	9
1/4	6,35	.059	1,5	.354	9
5/16	7,94	.059	1,5	.433	11
3/8	9,52	.059	1,5	.512	13
1/2	12,70	.059	1,5	.591	15
5/8	15,87	.059	1,5	.748	19
3/4	19,05	.059	1,5	.906	23
1''	25,40	.059	1,5	1.102	28
1'' 1/4	31,75	.059	1,5	1.38	35

Série Series	412
Référence Part number	Masse Weight g
412104 000 34	0,70
412106 000 34	0,65
412108 000 34	0,75
412110 000 34	0,85
412112 000 34	0,95

Série Series	420
Référence Part number	Masse Weight g
420104 000 34	1,00
420106 000 34	0,90
420108 000 34	1,15
420110 000 34	1,25
420112 000 34	1,35
420116 000 34	1,55
420120 000 34	1,70

Série Series	432
Référence Part number	Masse Weight g
432104 000 34	1,5
432106 000 34	1,35
432108 000 34	1,65
432110 000 34	1,90
432112 000 34	2,10
432116 000 34	2,60
432120 000 34	3,10
432125 000 34	3,10
432132 000 34	

3.1 demi-brides conductrices côté structure

3.1 conducting half clamps structure side

Ø tuyauterie Pipe diameter		e		L	
inch	mm	inch	mm	inch	mm
3/16	4,76	.098	2,5	.354	9
1/4	6,35	.059	1,5	.354	9
5/16	7,94	.059	1,5	.433	11
3/8	9,52	.059	1,5	.512	13
1/2	12,70	.059	1,5	.591	15
5/8	15,87	.059	1,5	.748	19
3/4	19,05	.059	1,5	.906	23
1''	25,40	.059	1,5	1.102	28
1'' 1/4	31,75	.059	1,5	1.38	35

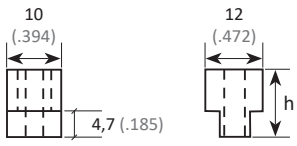
Série Series	412
Référence Part number	Masse Weight g
412204 000 34	1,20
412206 000 34	1,15
412208 000 34	1,25
412210 000 34	1,35
412212 000 34	1,45

Série Series	420
Référence Part number	Masse Weight g
420204 000 34	1,50
420206 000 34	1,40
420208 000 34	1,60
420210 000 34	1,80
420212 000 34	2,10
420216 000 34	2,45
420220 000 34	2,55

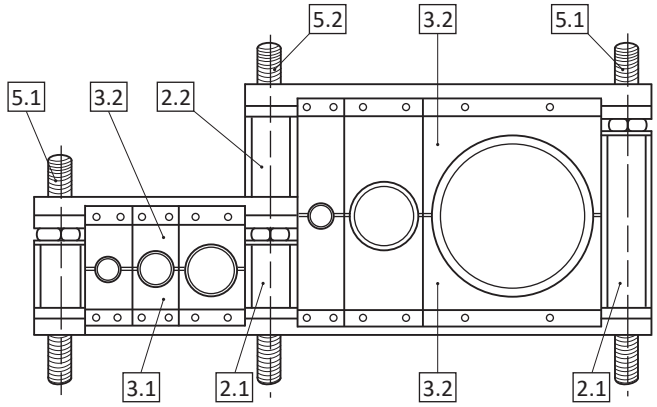
Série Series	432
Référence Part number	Masse Weight g
432204 000 34	2,00
432206 000 34	1,90
432208 000 34	2,2
432210 000 34	2,50
432212 000 34	3,00
432216 000 34	3,50
432220 000 34	4,00
432225 000 34	4,00
432232 000 34	4,50

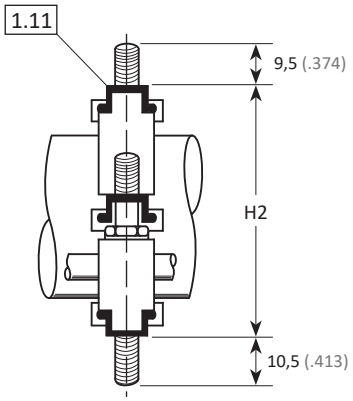
ACCESSOIRES

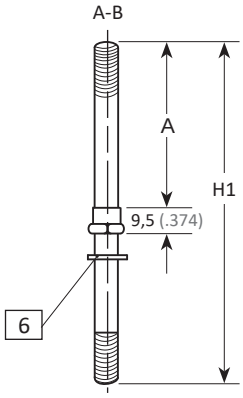
ACCESSORIES

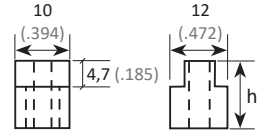
1.11	Rail métallique standard Standard metal rail (le/the m)		021151 002 09	57,50	021151 002 09	57,50	021151 002 09	57,50
4.1	Intercalaire Spacer	1 mm (.039 inch)	412501 000 34	0,12	420501 000 34	0,12	432501 000 34	0,12
		2 mm (.079 inch)	412502 000 34	0,21	420502 000 34	0,21	432502 000 34	0,21
		3 mm (.118 inch)	412503 000 34	0,31	420503 000 34	0,31	432503 000 34	0,31
		10 mm (.394 inch)	412510 000 34	0,88	420510 000 34	0,88	432510 000 34	0,88
5.1	Vis acier Steel screw (Inches)		412760 949 86 PEQ	7,20	420760 949 86 PEQ	8,30	432760 949 86 PEQ	10,30
	Vis titane Titanium screw (Inches)		412650 949 62	4,30	420650 949 62	5,00	432650 949 62	6,30
6.1	Rondelle Washer		091033 000 86 PEQ	0,30	091033 000 86 PEQ	0,30	091033 000 86 PEQ	0,30
7.3	Ecrou Nut	Kaylock	000873 190 06	0,80	000873 190 06	0,80	000873 190 06	0 80
2.1	Butée d'arrêt / End stop 		412600 162 77 h = 16,2 mm (.638 inch)	2,20	420600 240 77 h = 24 mm (.945 inch)	3,40	432600 376 77 h = 37,6 mm (1.48 inch)	5,50

MONTAGE JUXTAPOSÉ (412 X 432 / 412 X 420 / 420 X 432)
MIXED ASSEMBLY (412 X 432 / 412 X 420 / 420 X 432)







Vis / Screws			Série / Series 412 x 432		Série / Series 412 x 420		Série / Series 420 x 432	
			Référence Part number	Masse Weight g	Référence Part number	Masse Weight g	Référence Part number	Masse Weight g
5.2	Vis acier (Métrique) Steel screw (Inches)		432771 935 61 432761 949 61	10,5	420771 935 61 420761 949 61	8,4	432772 935 61 432762 949 61	10,5
	Vis titane Titanium screw (Inches)		432651 949 62	6,3	420652 949 62	5	432652 949 62	6,3
	mm (Inches)	H1	68,2 (2.685)		54,6 (2.15)		68,2 (2.685)	
		H2	48,2 (1.898)		34,6 (1.362)		48,2 (1.898)	
		A	31,9 (1.256)		18,3 (.720)		24,1 (.949)	
2.2	Butée d'arrêt / End stop 		432601 204 77 h = 20,4 mm (.803 inch)	2,80	420601 068 77 h =6,8 mm (.268 inch)	0,80	432602 126 77 h = 12,6 mm (.496 inch)	1,60

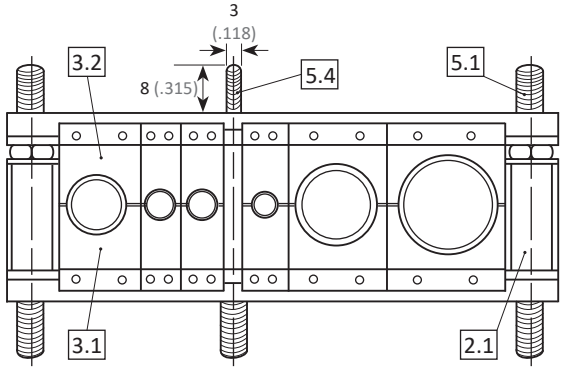
MONTAGE NORMAL À FIXATION INTERMÉDIAIRE
STANDARD ASSEMBLY WITH INTERMEDIATE MOUNTING POINT

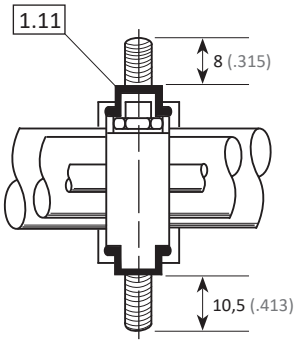
Utilisation exceptionnelle lorsque l'entraxe dépasse 70 mm et que l'encombrement est limité.

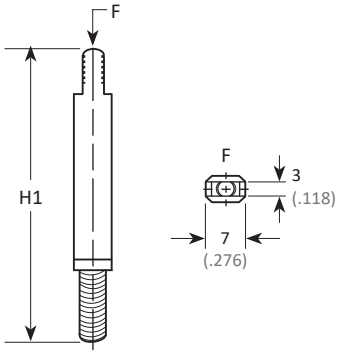
Perçage du support : structure Ø 5,2mm
couvercle Ø 7,1mm

Only used if the centre distance exceeds 2.756 inch and space is limited.

Fixing holes in the rail: structure Ø .205 inch
cover Ø .28 inch

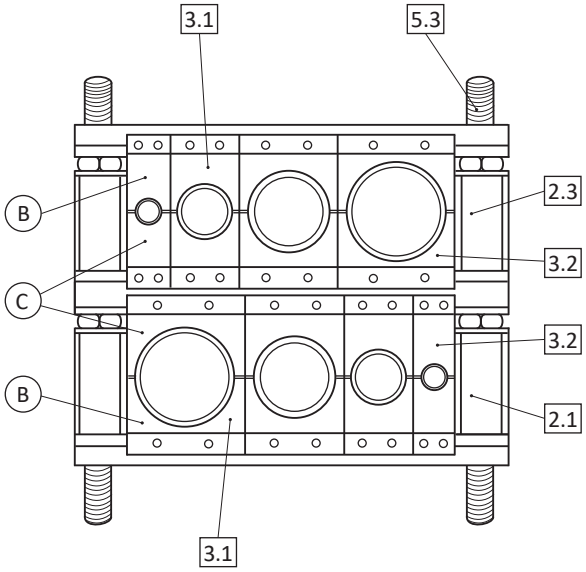


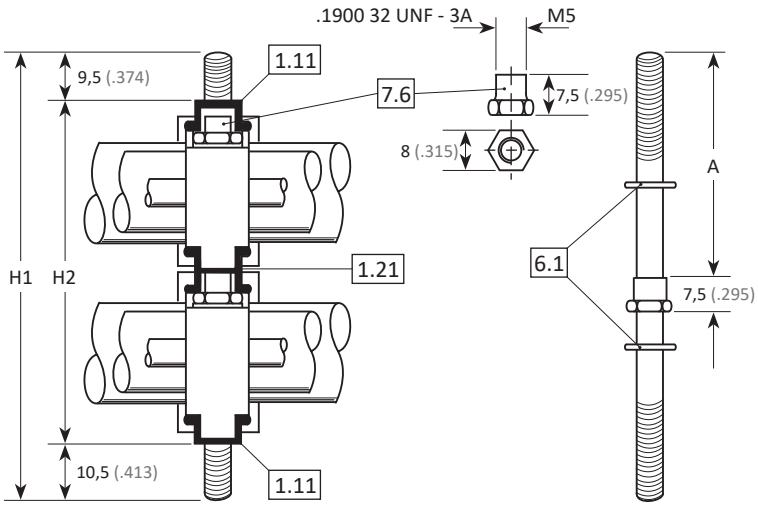




Vis / Screws			Série / Series 412		Série / Series 420		Série / Series 432	
			Référence Part number	Masse Weight g	Référence Part number	Masse Weight g	Référence Part number	Masse Weight g
5.4	Vis acier Steel screw	metric	412775 935 61	6,2	420775 935 61	7,5	432775 935 61	9,5
		inch	412765 935 61		420765 949 86 PEQ		432765 949 86 PEQ	
	Vis titane Titanium screw	metric	412665 935 62	3,6	420665 935 62	4,4	432665 935 62	5,5
		inch	412655 949 62		420655 949 62		432655 949 62	
	mm (inch)	H1	45,2 (1.78)		53 (2.087)		66,6 (2.622)	

MONTAGE SUPERPOSÉ (412 X 412 / 420 X 420)
TWO TIER MOUNTING (412 X 412 / 420 X 420)



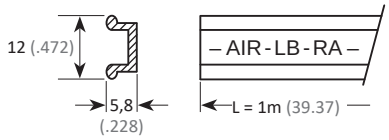
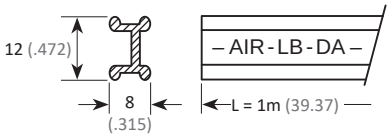
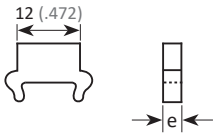
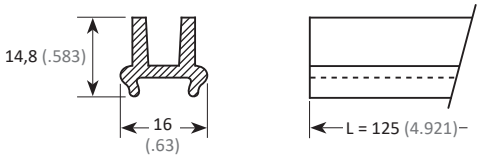
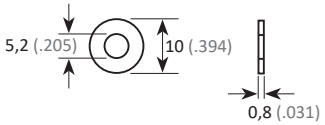
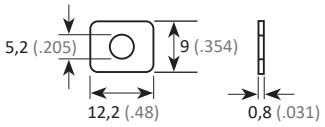
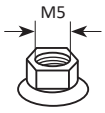


(C) Demi-brides conductrices 3.1
Conducting half clamp

(B) Demi-brides non conductrices 3.2
Non conducting half clamp

Accessoires Accessories			Séries Series 412/412 Référence Part number	Masse Weight g	Séries Series 420/420 Référence Part number	Masse Weight g
1.11	Rail métallique standard Standard metal rail		page 27	57,50	page 27	57,50
1.21	Support métallique double Double rail		page 27	90,00	page 27	90,00
5.3	Vis acier Steel screw	metric	412774 935 86 PEQ	10,8	420774 935 86 PEQ	12,8
		inch	412764 949 86 PEQ	10,8	420764 949 86 PEQ	12,8
	Vis titane Titanium screw	metric	412664 935 62	6,6	420664 935 62	7,4
		inch	412654 949 62	6,6	420654 949 62	7,4
	mm (Inches)	H1	70,3 (2.768)		85,9 (3.382)	
		H2	50,3 (1.98)		65,9 (2.594)	
		A	34 (1.339)		41,8 (1.646)	
2.3	Butée d'arrêt End stop 10 (.394) 12 (.472) 2,7 (.106) h		412605 142 77 h = 14,2 mm (.559 inch)	2,00	420605 220 77 h = 22 mm (.866 inch)	3,20
7.6	Ecrou Nut	metric	432976 949 61	1,60	432976 949 61	1,60
		inch	432966 935 61	1,60	432966 935 61	1,60

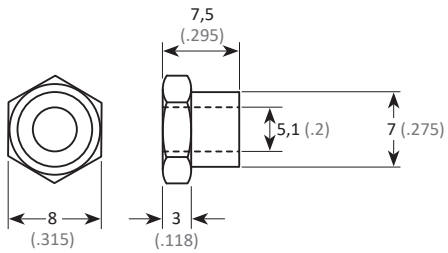
ACCESSOIRES
ACCESSORIES

	Accessoires Accessories		Matière Material	Protection Protection		Référence Part number	Masse Weight g
1.1	Rail métallique standard Standard metal rail 		Alliage aluminium série 6000 Aluminum alloy 6000 series	ALODINE 1 200	1.11	021151 002 09 (1)	57,5 (le mètre de rail / the rail meter)
				Oxydation anodique bichromatée Oxalic anodized dichromated	1.12	021151 002 10 (2)	
1.2	Rail métallique double Double rail 		Alliage aluminium série 6000 Aluminum alloy 6000 series	ALODINE 1 200	1.21	091150 002 09 (1)	90 (le mètre de rail / the rail meter)
				Oxydation anodique bichromatée Oxalic anodized dichromated	1.22	091150 100 10 (2)	
4.1	Intercalaire Spacer 		Thermo-plastique noir Black thermoplastic	Protégé chaleur Heat resistant		Page 23 - 24	
4.2						096005 000 34	11,4
6	Rondelles Washers 		Acier Steel	Cadmié bichromaté Dichromated cadmium	6.1	091033 000 86 PEQ	0,3
					6.2	091034 000 86 PEQ	
7	Ecrou auto freiné Self locking nut 	Nylstop M5	Acier Steel		7.1	000721 050 07	1,17
		(métrique) simloc 5 RH 80 35 M			7.2	000801 050 61	1,20
		kayloc .1900 32 UNF 3A			7.3	000873 190 61	

(1) Peignes conducteurs.
(2) Peignes non conducteurs.

(1) Conducting clamps.
(2) No conducting clamps.

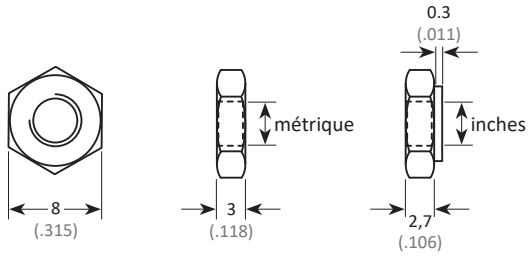
ENTRETOISE



BRACER

Référence Part number	Masse Weight g
091036 001 61	1,60
Acier Steel	35 NC6
Cadmié bichromaté Dichromated cadmium	

ÉCROU



NUT

Rep	Ecrou Nut	Référence Part number	Masse Weight g
7.4	Métrique	091005 000 07	0,85
7.5	Inches	091005 949 61	0,85
Acier Steel		35 NC6	
Cadmié bichromaté Dichromated cadmium			

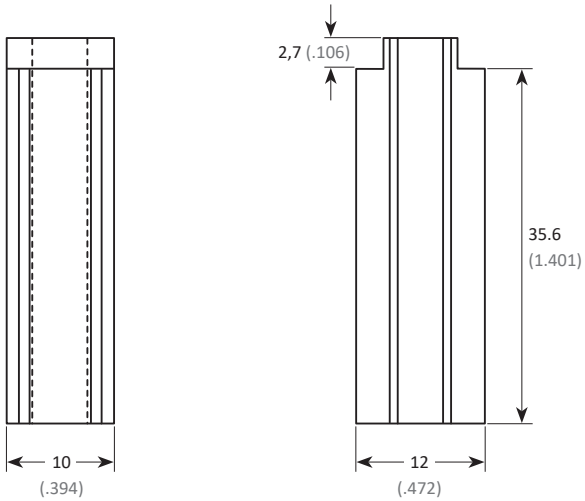
VIS DE FIXATION (PAGE 23 À 25)

Acier 35 NC cadmié bichromaté
Titane TA - 6V oxydé anodiquement

MOUNTING SCREW (PAGE 23 TO 25)

Dichromated cadmium plated steel 35 NC 6
Anodized titanium TA 6 V

BUTÉE D'ARRÊT SPÉCIALE



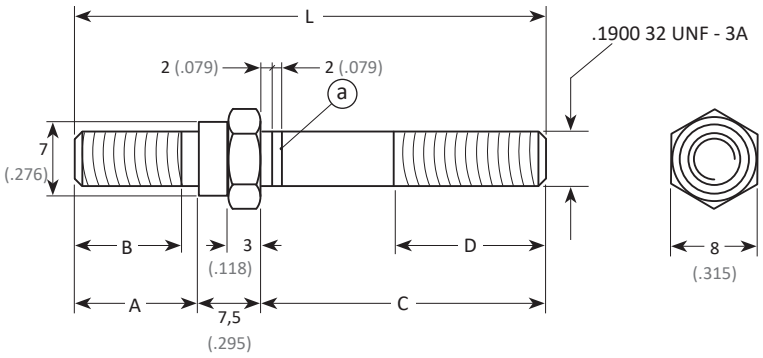
SPECIAL END STOP

Référence Part number	Masse Weight g
191020 356 77	5,30

VIS DE FIXATION SPÉCIALES
SPECIAL MOUNTING SCREWS

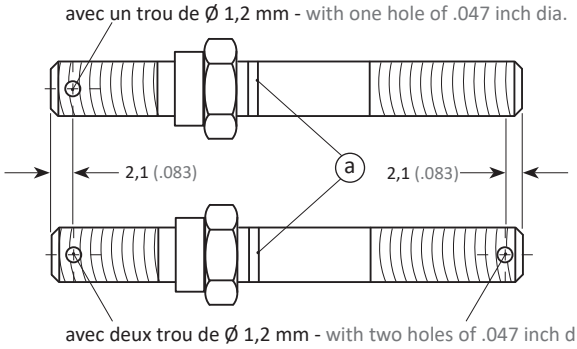
INCHES (SUIVANT MIL-S-7742)

ⓐ 2 traits d'outil pour repérage des pièces filetées en inches profondeur max 0,15 mm



IMPERIAL (STANDARD MIL-S-7742)

ⓐ 2 tool marks to identify inches threads, maximum depth .006 inch



MONTAGE NORMAL

STANDARD MOUNTING

Série Series	Type Type	Matière Material	L mm	L inch	A mm	A inch	B mm	B inch	C mm	C inch	D mm	D inch	Référence Part Number	Masse Weight g
412	sans trou no hole	1	49,5	1.949	10,5	.413	10,5	.413	31,5	1.24	18	.709	191021 764 61	7,40
		3	46,8	1.843	10,5	.413	10,5	.413	28,8	1.134	15	.591	412642 949 62	4,20
	1 trou 1 hole	1												
		2	46,8	1.843	10,5	.413	10,5	.413	28,8	1.134	15	.591	412690 949 62	4,20
	2 trous 2 holes	1												
		2											412691 949 62	4,20
420	sans trou no hole	1	57,5	2.264	10,5	.413	10,5	.413	39,5	1.555	18	.709	191023 725 61	8,50
		3	54,6	2.15	10,5	.413	10,5	.413	36,6	1.441	15	.591	420642 949 62	4,75
	1 trou 1 hole	1												
		2	54,6	2.15	10,5	.413	10,5	.413	36,6	1.441	15	.591	420690 949 62	4,75
	2 trous 2 holes	1												
		2											420691 949 62	4,75
432	sans trou no hole	1	70,5	2.776	10,5	.413	10,5	.413	52,5	2.067	18	.709	191022 726 61	10,20
		3	68	2.677	10,5	.413	10,5	.413	50	1.969	15	.591	432642 949 62	5,90
	1 trou 1 hole	1												
		2	68	2.677	10,5	.413	10,5	.413	50	1.969	15	.591	432690 949 62	5,90
	2 trous 2 holes	1												
		2											432691 949 62	5,90

ⓘ Acier 35 NC6 cadmié bichromaté
ⓘ Titane TA-6V oxydé anodiquement
ⓘ Titane TA-6v bisulfure de molybdène

ⓘ Steel 35 NC6 Dichromated cadmium plated
ⓘ Titanium TA-6V anodized
ⓘ Titanium TA-6V molybdenum bisulphide

MONTAGE JUXTAPOSÉ

MIXED ASSEMBLY

Série Series	Type Type	Matière Material	L mm (inch)	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	Référence Part Number	Masse Weight g
412 x 432	sans trou no hole	1	68,2 (2.685)	31,9 (1.26)	12 (.472)	28,8 (1.134)	15 (.59)		
		2							
	1 trou 1 hole	1							
		2						432692 949 62	6,20
	2 trous 2 holes	1							
		2						432693 949 62	6,20
412 x 420	sans trou no hole	1	54,6 (2.15)	18,3 (.72)	12 (.472)	28,8 (1.134)	15 (.59)		
		2							
	1 trou 1 hole	1							
		2						420692 949 62	4,70
	2 trous 2 holes	1							
		2						420693 949 62	4,70
420 x 432	sans trou no hole	1	68,2 (2.685)	24,1 (.949)	12 (.472)	36,6 (1.441)	15 (.59)		
		2							
	1 trou 1 hole	1							
		2						432694 949 62	6,00
	2 trous 2 holes	1							
		2						432695 949 62	6,00

MONTAGE SUPERPOSÉ

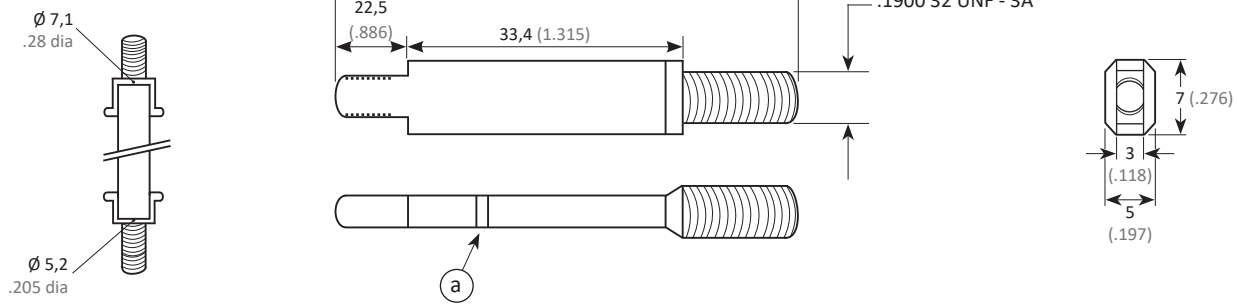
TWO TIER MOUNTING

Série Series	Type Type	Matière Material	L mm (inch)	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	Référence Part Number	Masse Weight g
412 ---- 412	sans trou no hole	1	70,3 (2.768)	34 (1.139)	21,5 (.846)	28,8 (1.139)	20 (.787)		
		3						412648 949 62	5,75
	1 trou 1 hole	1							
		2						412696 949 62	5,75
	2 trous 2 holes	1							
		2						412697 949 62	5,75
420 ---- 420	sans trou no hole	1	85,9 (3.382)	41,8 (1.646)	21,5 (.846)	36,6 (1.44)	20 (.787)		
		3						420648 949 62	7,10
	1 trou 1 hole	1							
		2						420696 949 62	7,10
	2 trous 2 holes	1							
		2						420697 949 62	7,10
432 ---- 432	sans trou no hole	1	113,1 (4.453)	55,4 (2.181)	21,5 (.846)	50,2 (1.976)	20 (.787)	191055 949 61	17,80
		2						191055 949 62	9,20
412 ---- 420		1	78,1 (3.075)	34 (1.339)	21,5 (.846)	36,6 (1.44)	20 (.787)	191656 949 61	12,10
		2						191656 949 62	7,20

MONTAGE NORMAL À FIXATION INTERMÉDIAIRE

STANDARD ASSEMBLY WITH INTERMEDIATE MOUNTING POINT

Perçage des profilés
Profiles drilling



Série Series	Type Type	Matière Material	Référence Part Number	Masse Weight g
420	sans trou no hole	1	291209 949 61	7,40

① Acier 35 NC6 cadmié bichromaté

② Titane TA-6V oxydé anodiquement

③ Titane TA-6v bisulfure de molybdène

① Steel 35 NC6 Dichromated cadmium plated

② Titanium TA-6V anodized

③ Titanium TA-6V molybdenum bisulphide

PEIGNES STSM SEMI-MODULAIRES - TYPE 455 000 - 450 000 N - 450 000 H

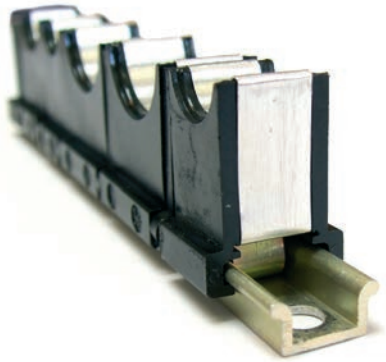
STSM HALF MODULAR CLAMPBLOCKS - 455 000 - 450 000 N - 450 000 H SERIES

CONDUCTEUR - À RESSORTS CÔTÉ STRUCTURE TYPE 455 000 - AIRBUS

Métrique
(interchangeable avec type 91 000 conducteur)

SPRING CONDUCTOR ON STRUCTURE SIDE TYPE 455 000 - AIRBUS

Imperial
(interchangeable with type 91 000 conducting)



NON CONDUCTEUR - À RESSORTS CÔTÉ STRUCTURE TYPE 450 000 N - AIRBUS

Métrique

NON CONDUCTING - STRUCTURE SIDE SPRING TYPE 450 000 N - AIRBUS

Imperial



NON CONDUCTEUR - SANS RESSORTS CÔTÉ STRUCTURE TYPE 450 000 H - AIRBUS

Métrique
(interchangeable avec type 92 000 non conducteur)

NON CONDUCTING - STRUCTURE SIDE WITHOUT SPRING TYPE 450 000 H - AIRBUS

Imperial
(interchangeable with type 92 000 non conducting)



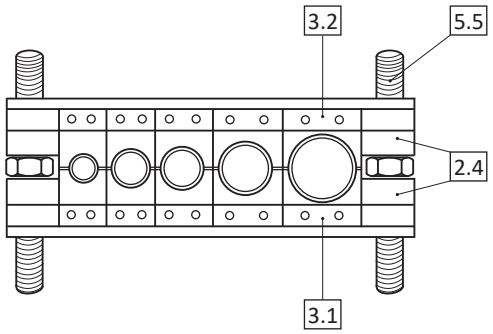
Type conforme à la spécification technique d'équipement N°A 310/29/1007 «peignes hydrauliques» pour A300-A310-A320 de l'aérospatial, ainsi qu'à ceux de l'ISO 7661.

This type conforms to aerospacial technical specification N° A 310/29/1007 «hydraulic pipe clamp» for A300-A310-A32 as well as ISO 7661.

MONTAGE NORMAL
NORMAL MOUNTING

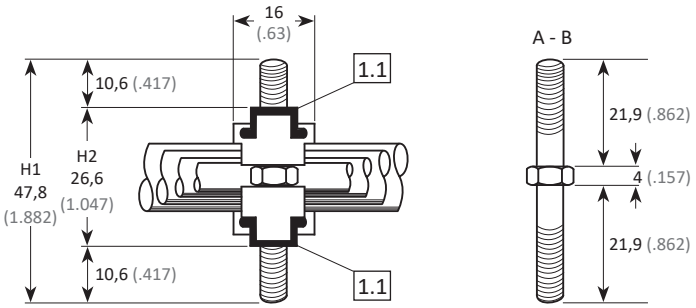
SÉRIE 412

Diamètres 4-6-8-10-12



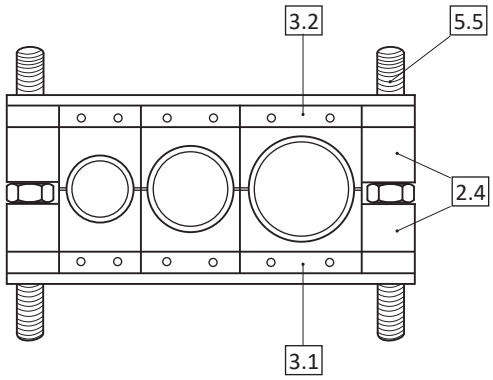
412 SERIES

Diameters 3/16-1/4-5/16-3/8-1/2



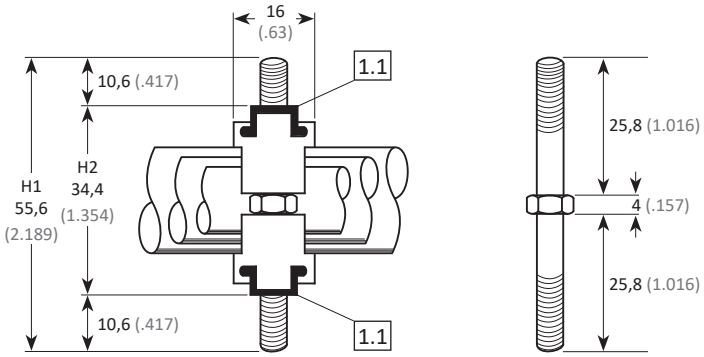
SÉRIE 420

Diamètres 4-6-8-10-12-16-20



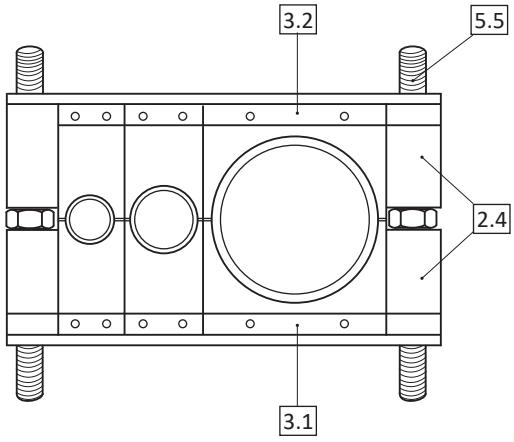
420 SERIES

Diameters 3/16-1/4-5/16-3/8-1/2-5/8-3/4



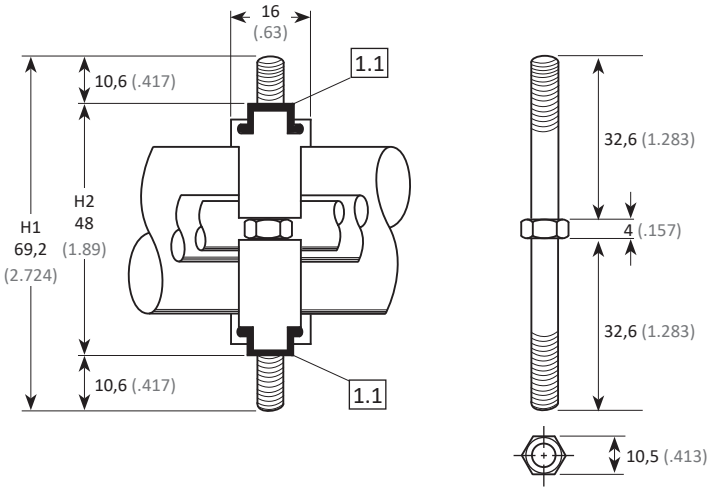
SÉRIE 432

Diamètres 4-6-8-10-12-16-20-25-32



432 SERIES

Diameters 3/16-1/4-5/16-3/8-1/2-5/8-3/4-1''-1''1/4

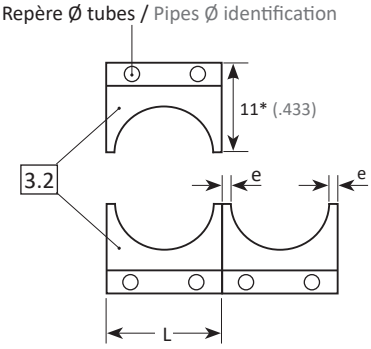


DIMENSIONS ET MASSES
WEIGHT AND DIMENSIONS

DEMI PEIGNE SIMPLE

3.2 demi-brides simples non conductrices

Repère Ø tubes / Pipes Ø identification



SIMPLE HALF CLAMP

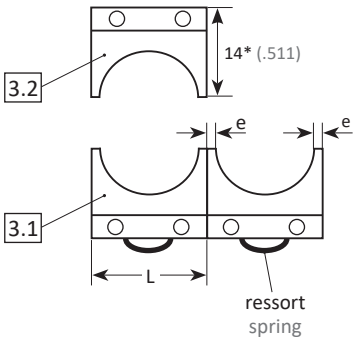
3.2 simple non conducting half clamps

Ø Tuyauterie Pipe diameter				L		Série Series 412	Série Series 420	Série Series 432
mm	e mm	inch	e mm	mm	inch	Masse Weight g		
4	2,5	3/16	2,12	9	.354	0,70	1,00	1,50
6	1,5	1/4	1,32	9	.354	0,65	0,90	1,35
8	1,5	5/16	1,53	11	.433	0,75	1,15	1,65
10	1,5	3/8	1,74	13	.512	0,85	1,25	1,90
12	1,5	1/2	1,15	15	.59	0,95	1,35	2,10
16	1,5	5/8	1,56	19	.748		1,55	2,60
20	1,5	3/4	1,97	23	.905		1,70	3,10
25	1,5	1''	1,30	28	1.102			3,10
32	1,5	1''1/4	1,62	35	1.378			3,50

DEMI PEIGNE CONDUCTEUR

3.1 demi-brides conductrices avec ressorts côté structure

3.2 demi-brides simples



CONDUCTING HALF CLAMP

3.1 conducting half clamps structure side

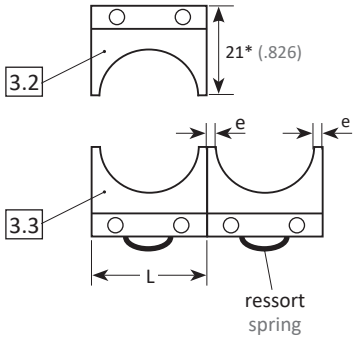
3.2 simple half clamps

Ø Tuyauterie Pipe diameter				L		Série Series 412	Série Series 420	Série Series 432
mm	e mm	inch	e mm	mm	inch	Masse Weight g		
4	2,5	3/16	2,12	9	.354	1,20	1,50	2,00
6	1,5	1/4	1,32	9	.354	1,15	1,40	1,90
8	1,5	5/16	1,53	11	.433	1,25	1,60	2,20
10	1,5	3/8	1,74	13	.512	1,35	1,80	2,50
12	1,5	1/2	1,15	15	.59	1,45	2,10	3,00
16	1,5	5/8	1,56	19	.748		2,45	3,50
20	1,5	3/4	1,97	23	.905		2,55	4,00
25	1,5	1''	1,30	28	1.102			4,00
32	1,5	1''1/4	1,62	35	1.378			4,50

DEMI PEIGNE SIMPLE À RESSORTS

3.3 demi-brides non conductrices avec ressorts côté structure

3.2 demi-brides simples



CONDUCTING HALF CLAMP

3.3 half clamps spring and non conducting structure side

3.2 simple half clamps

Ø Tuyauterie Pipe diameter				L		Série Series 412	Série Series 420	Série Series 432
mm	e mm	inch	e mm	mm	inch	Masse Weight g		
4	2,5	3/16	2,12	9	.354	1,20	1,50	2,00
6	1,5	1/4	1,32	9	.354	1,15	1,40	1,90
8	1,5	5/16	1,53	11	.433	1,25	1,60	2,20
10	1,5	3/8	1,74	13	.512	1,35	1,80	2,50
12	1,5	1/2	1,15	15	.59	1,45	2,10	3,00
16	1,5	5/8	1,56	19	.748		2,45	3,50
20	1,5	3/4	1,97	23	.905		2,55	4,00
25	1,5	1''	1,30	28	1.102			4,00
32	1,5	1''1/4	1,62	35	1.378			4,50

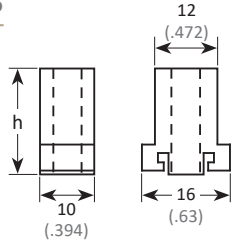
* Dimension approximative pour cause de jeux.

* Rough dimension only.

2.4 BUTÉE D'ARRÊT

2.4 END STOP

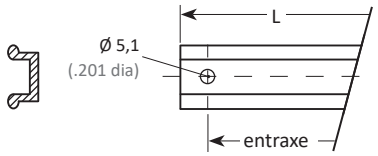
Série Series		412	420	432
h	mm	10,2	14,1	20,9
	inch	.401	.555	.823
masse weight g		0,75	1,03	1,50



1.1 RAIL STANDARD (PAGE 27)

Alliage aluminium série 6000 : 57,5 g le mètre

Longueur : faire la somme des épaisseurs de tous les éléments (demi-brides + intercalaires) majorée de 20 mm.
Entraxe de fixation majoré de 10 mm.

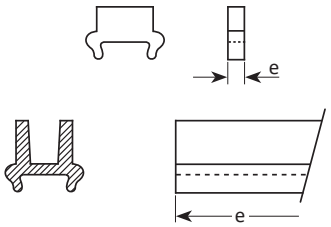


1.1 STANDARD RAIL (PAGE 27)

Aluminium alloy 6000 series: 57,5 g the meter

Length: Sum the thickness of all the components (half-clamps and spacers) add .787 inch.
Centre to centre distance add .394 inch.

4 INTERCALAIRES (PAGE 27)



4 SPACER (PAGE 27)

e		Masse Weight g		
mm	inch	412	420	432
1	.039	0,12	0,16	0,25
2	.078	0,21	0,29	0,47
3	.118	0,31	0,43	0,66
10	.394	0,88	0,92	1,12
125	4.921		11,4	

ACCESSOIRES
ACCESSORIES

(Références indiquées en cas de rechange)

(P/N indicated as spare parts)

5.5 VIS DE FIXATION SYMÉTRIQUE

Acier : 35 NC 6 Cadmié Bichromaté
Titane : TA-6V oxydé anodiquement

Métrique : profil ISO M 5 pas 0,8 mm
tolérances : ISO classe 4 h

Inches : .1900-32 UNFJ-3 A
(suivant MIL-S-7742)

(a) 2 traits d'outil pour repérage des pièces filetées en inches, profondeur maxi 0,15 mm

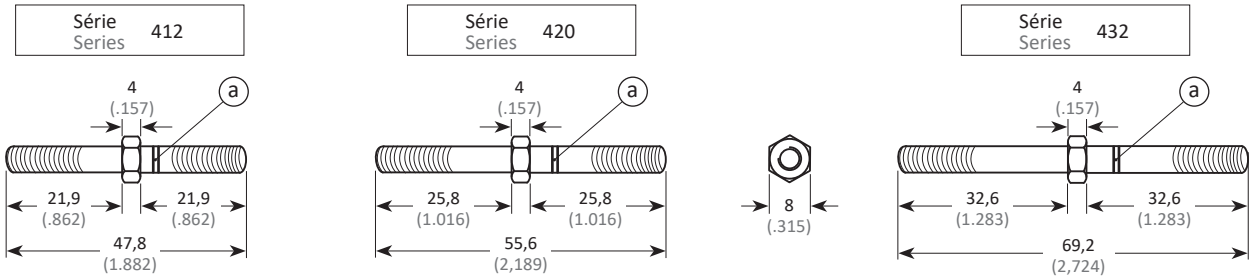
5.5 SYMMETRICAL MOUNTING SCREW

Steel: 35 NC 6 Dichromated cadmium plated
Titanium: TA-6V anodized

Metric: ISO profile M 5 pitch of 0,31 inch
tolerance : ISO classe 4 h

Inches: .1900-32 UNFJ-3 A
(MIL-S-7742)

(a) 2 tool marks to identify inches threads, maximum depth .006 inch



Matière Material		Série Series 412	Masse Weight g	Série Series 420	Masse Weight g	Série Series 432	Masse Weight g
Acier Steel	metric						
	inch	412750 949 86 PEQ	7,20	420750 949 86 PEQ	8,30	432750 949 86 PEQ	10,30
Titane Titanium	metric						
	inch						

7 ÉCROU ACIER

Autofreiné à rondelle prisonnière imperdable

7.2 Pour filetage ISO métrique :
ECROU M5 - SIMLOC 5 RH 8035 M
Référence : 000801 050 01
Masse : 1,20 g

7.3 Pour filetage en inches :
ECROU .1900-32 UNFJ-3B - KAYLOCK HW 17-3
Référence : 000873 190 06
Masse : 0,80 g

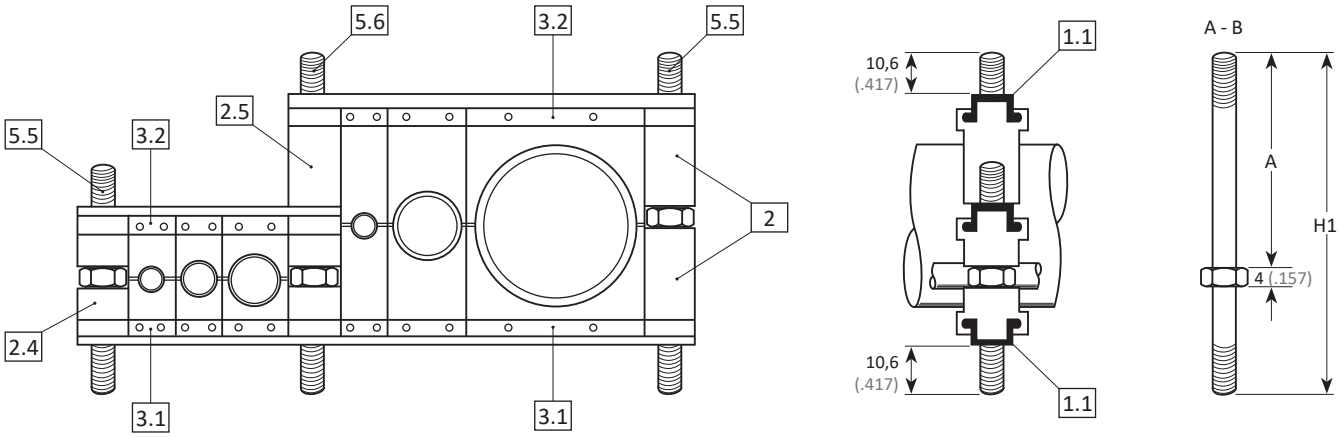
7 STEEL NUT

Self locking with captive washer

7.2 For ISO metric threads:
M5 NUT - SIMLOC 5 RH 8035 M
Reference: 000801 050 01
Weight: 1,20 g

7.3 For imperial threads:
NUT - .1900-32 UNFJ-3B - KAYLOCK HW 17-3
Reference: 000873 190 06
Weight: 0,80 g

MONTAGES JUXTAPOSÉS (412 X 432 - 412 X 420 - 420 X 432)
MIXED ASSEMBLY (412 X 432 - 412 X 420 - 420 X 432)

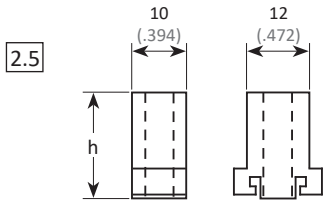


ACCESSOIRES

(Références indiquées en cas de rechange)

ACCESSORIES

(P/N indicated as spare parts)



Accessoires / Accessories			Séries / Series 412 x 432		Séries / Series 412 x 420		Séries / Series 420 x 432	
			Référence / Part number	Masse / Weight g	Référence / Part number	Masse / Weight g	Référence / Part number	Masse / Weight g
2.5	Butée d'arrêt / End stop		432601 500 34 h = 20,4 mm (.803 inch)	1,46	420601 500 34 h = 6,8 (.268 inch)	0,50	432602 500 34 h = 12,6 (.496 inch)	1,02
5.6	Vis acier / Steel screw	metric						
		inch	432751 949 86 PEQ	10,5	420751 949 86 PEQ	8,4	432752 949 86 PEQ	10,5
	Vis titane / Titanium screw	metric						
		inch						
	mm (inch)	H1	69 (2.717)		55,4 (2.181)		69 (2.717)	
		H2	48,2 (1.898)		34,6 (1.362)		48,2 (1.898)	
		A	43,1 (1.697)		29,5 (1.161)		39,2 (1.697)	

Ecrous 7.3 et vis de fixation 5.5 montage normal page 34.

Les montages superposés ou spéciaux doivent faire l'objet d'un dessin.

Fixing screws 5.5 and nuts 7.3 standard assembly page 34.

Superimposed or special mountings are subject to a drawing.

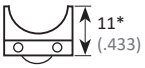
PIÈCES DÉTACHÉES DE PEIGNES MONOBLOCS
MONOBLOC PIPE CLAMPS SPARE PARTS

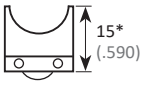
(Références pour information)

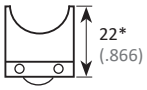
(P/N for information only)

3 DEMI BRIDES INCHES

3.3 Demi brides non conductrices avec ressorts







* Dimension approximative pour cause de jeux.
* Rough dimension only.

Ø tuyauterie Pipe diameter		e		L	
inch	mm	inch	mm	inch	mm
3/16	4,76	.083	2,12	.354	9
1/4	6,35	.052	1,32	.354	9
5/16	7,94	.06	1,53	.433	11
3/8	9,52	.375	1,74	.512	13
1/2	12,70	.045	1,15	.59	15
5/8	15,87	.061	1,56	.748	19
3/4	19,05	.078	1,97	.906	23
1''	25,40	.051	1,30	1.102	28
1'' 1/4	31,75	.064	1,62	1.378	35

Série Series	412
Référence Part number	Masse Weight g
412204 500 34	1,20
412206 500 34	1,15
412208 500 34	1,25
412210 500 34	1,35
412212 500 34	1,45

Série Series	420
Référence Part number	Masse Weight g
420204 500 34	1,50
420206 500 34	1,40
420208 500 34	1,60
420210 500 34	1,80
420212 500 34	2,10
420216 500 34	2,45
420220 500 34	2,55

Série Series	432
Référence Part number	Masse Weight g
432204 500 34	2,00
432206 500 34	1,90
432208 500 34	2,20
432210 500 34	2,50
432212 500 34	3,00
432216 500 34	3,50
432220 500 34	4,00
432225 500 34	4,00
432232 500 34	4,50

NOTA : Demi-brides pour tuyauteries métriques possibles.
Nous consulter.

NOTE: Half clamps for metric pipes available on request.
Please contact us.

BUTÉES D'ARRÊT

END STOP

Série Series	412
Référence Part number	Masse Weight g
412600 500 34	1,35

Série Series	420
Référence Part number	Masse Weight g
420600 500 34	1,85

Série Series	432
Référence Part number	Masse Weight g
432600 500 34	2,70

RÉFÉRENTIEL
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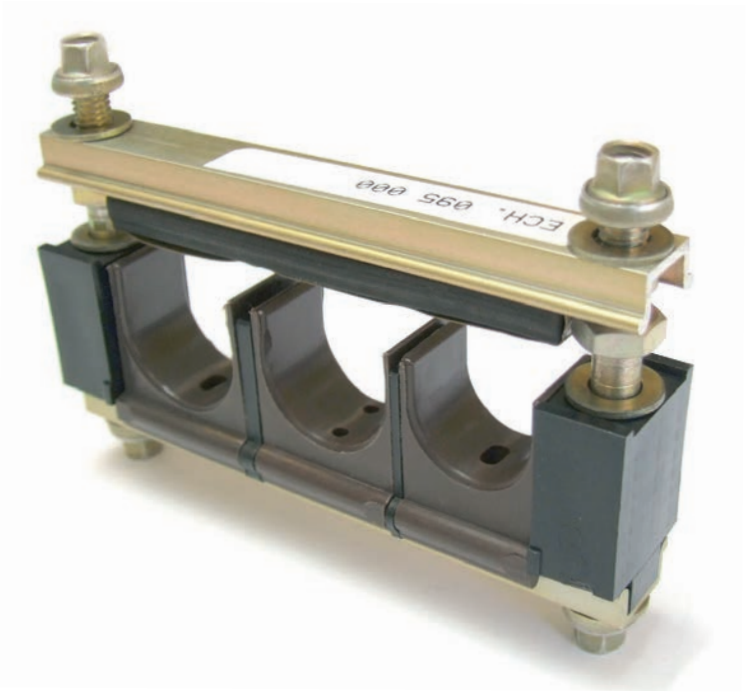
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43277193561	A0009AC771		25
43277293561	A0009BC772		25
43277593561	A0009C775		25
43296693561	A0009966	7150NDN	26
43297694961	A0009976		26

Amphenol Air LB

Your Satisfaction. Everyday. Everywhere.

Clampblocks on tangential alignment

Peignes à alignement tangentiel

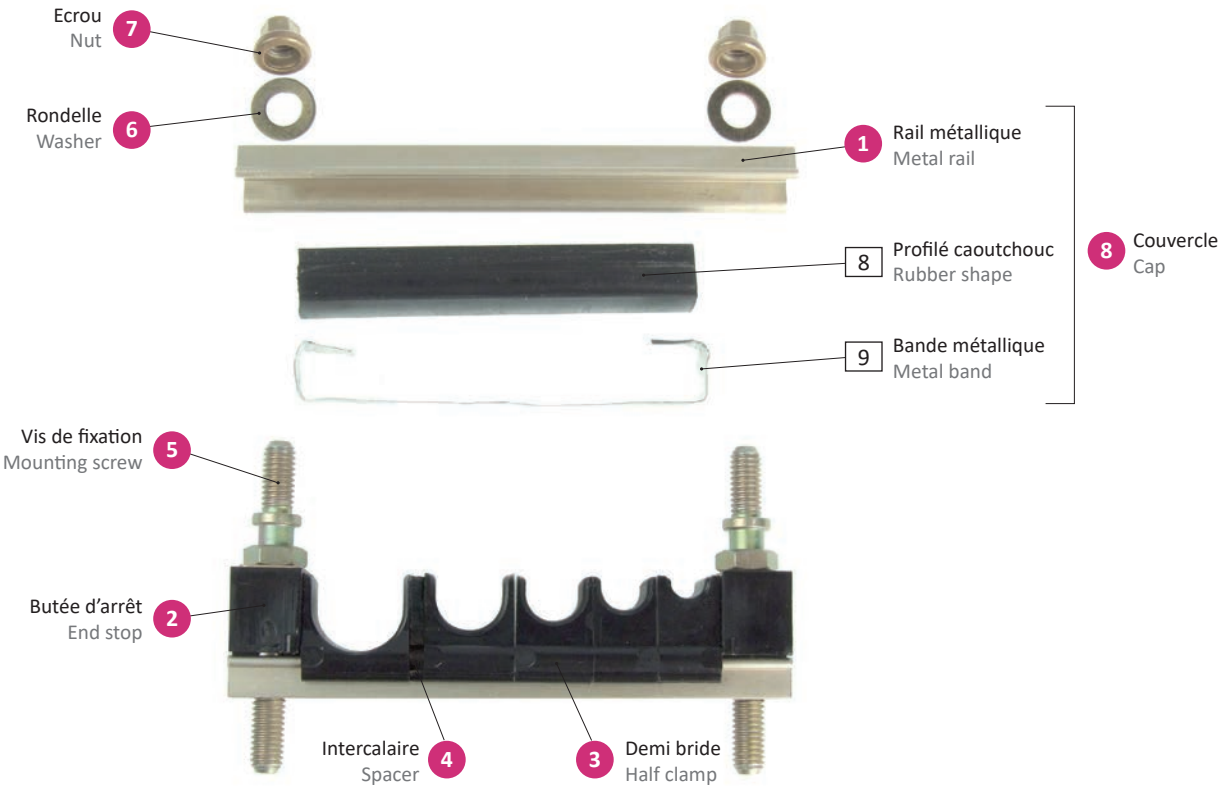


PIPE CLAMPS

PEIGNES & SUPPORTS DE TUYAUTERIE

Product Catalogue 09/24 - V2.1

PRÉSENTATION
PRESENTATION



De même conception que les types précédents à alignement axial, ce modèle de peigne support de tuyauteries (ST) se caractérise par l'alignement tangentiel des tuyauteries côté couvercle.

Il se compose d'un demi-peigne côté structure constitué de demi-brides simples et d'un couvercle dural équipé d'un profilé caoutchouc.

Cette technique d'assemblage modulaire côté structure et monobloc tangentielle côté couvercle est d'exécution et d'installation encore plus rapide.

Il existe plusieurs versions de peignes ST :
- conducteur (côté couvercle ou côté structure)
- non conducteur
- pour tuyauteries métriques ou impériales

Les **peignes conducteurs** sont constitués :
- d'un demi-peigne non conducteur côté structure et d'une bande métallique côté couvercle qui est insérée entre le profilé caoutchouc et le support dural (**couvercle conducteur**).
- d'un demi-peigne conducteur côté structure et d'un couvercle simple (**non conducteur**).

Les **peignes non conducteurs** sont constitués :
- d'un demi-peigne non conducteur côté structure et d'un couvercle simple (**non conducteur**).

Les demi-brides sont moulées en thermoplastique noir protégé chaleur, elles ne possèdent que des angles arrondis et leur diamètre est repéré en fonction du type :

3.7 1 trou rectangulaire pour les Ø métriques (marron)

3.7 2 trous cylindriques pour les Ø inches (noir)

3.8 1 trou cylindrique pour les Ø métriques (gris)
Demi-brides avec bande métallique (page 44).

The tangential alignment range of pipe clamp assemblies type ST is similar in design to the on axis series, except that the pipes are aligned tangentially on the cover side.

The assembly consists of a simple half clamp on the structure side and a dural rail on the cover side fitted with a rubber shape.

The assembly technique, using modular half clamps on the structure side and a tangential monoblock shape on the cover side is very fast.

There are three variants of the ST clamps available:
- conducting (cover side or structure side)
- non conducting
- for metric or imperial pipe diameters

Conducting pipe clamp assemblies are made up as follow:
- non conducting half clamp on the structure side, and a metal band on the cover side which is fitted between the rubber shape and the dural rail (**conducting cover**).
- a conducting half clamp on the structure side and a rubber shape on the cover side (**non conducting**).

Non conducting pipe assemblies are made up of:
- a non conducting half clamp on the structure side and a rubber shape on the cover side (**non conducting**).

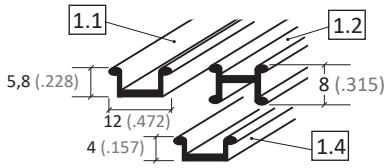
The half clamps are moulded in black thermoplastic heat resistant, the edges are rounded and the diameter is marked according to types:

3.7 a rectangular hole for metric Ø (brown)

3.7 two cylindrical holes for inches Ø (black)

3.8 a cylindrical hole for metric Ø (grey)
half clamps with metal strip (page 44)

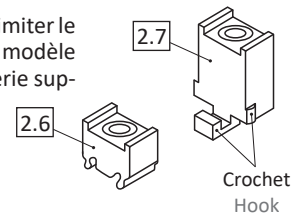
1 RAIL MÉTALLIQUE



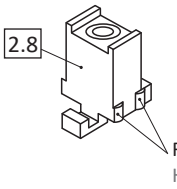
1 METAL RAIL

2 BUTÉE D'ARRÊT

Les butées d'arrêt 2 sont réalisées pour limiter le serrage du couvercle et des tuyauteries. Un modèle à crochets permet de monter une tuyauterie supplémentaire à l'extérieur des fixations.

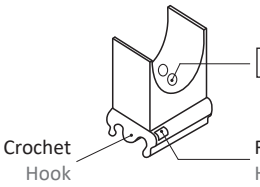


2 END STOP



The end stop 2 are designed to limit the torque applied to the cover and the pipes. A variant with an extra hook permits an additional pipe to be mounted outboard of the mounting screw.

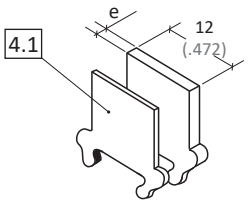
3 DEMI BRIDE



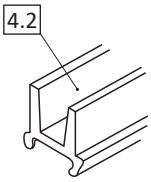
3 HALF CLAMP

4 INTERCALAIRE

Les intercalaires 4 moulées en thermoplastique protégé chaleur, sont prévues pour augmenter les entraxes et les écartements de tuyauteries.



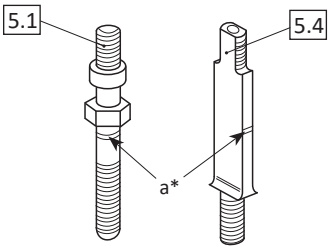
4 SPACER



The spacer 4 are moulded in heat stabilized thermoplastic, and are used to increase the centre to centre distances and to space out the pipes.

5 VIS DE FIXATION

Les vis de fixation 5 sont réalisées pour permettre d'implanter à l'avance tous les peignes structure.



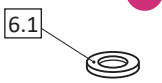
5 MOUNTING SCREW

The mounting screws 5 allow the structure side clamps to be fitted in advance.

a* repères ISO inches
UNF ident marking

6 RONDELLE

Les rondelles 6 en acier cadmié bichromaté prennent toujours place sur les butées d'arrêt du peigne côté structure.



6 WASHER

The washers 6 witch are made from cadmium plated dichromated steel, are always fitted on the structure side of the end clamp.

7 ÉCROU

Les écrous 7 des vis de fixation sont à rondelles imperdables, en métrique ou en inches.



7 NUT

The nuts 7 are for use with the fixing screws and have retained washers. Both metric and imperial types are available.

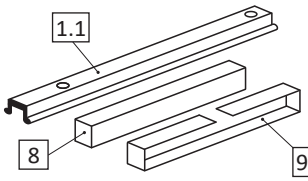
8 COUVERCLE

Les couvercles 8 sont toujours constitués du support métallique 1.1 dans lequel est monté le profile caoutchouc 8 associé ou non à une bande métallique 9.1.

Les profiles caoutchouc 8 sont d'une dureté shore (c1) A 60+/- 5 et en trois versions :
- Neoprene (C1)
- Nitrile (C2) pour l'immersion dans le kérozène
- Silicone fluoré (C3)

* Imprimé blanc tous les 25 cm :
AIR-LB 21B6HB-4T75
et un trait interrompu sur la longueur

** Fluides de bord et température variant de 155° à 210° C.



8 CAP (UPPER RAIL ASSEMBLY)

The cap 8 always consists of a metal rail 1.1 with a rubber shape 8 which may also have a metal band 9.1.

The rubber shape 8 have a hardness factor shore (c1) A 60 +/- 5, and are declined in three variants:
- Neoprene (C1)
- Nitrile (C2) for use in kerozen immersion
- Fluorinated silicone (C3)

8	Néoprène Neoprene	Nitrile* Nitrile*	Silicone fluoré** Fluorinated silicone**
C	C1	C2	C3
Couleur Color	Noir Black	Noir Black	Marron Brown

* Printed in white every 9.843 inch:
AIR-LB 21B6HB-4T75
and with a dashed line along the length

** Aircraft Fluids and temperature range from 155° to 210° C.

Les bandes métalliques 9 qui assurent la mise à la masse des tuyauteries sont, selon le modèle : en cuivre cadmié passivé ou en aluminium.

The metallic stripes 9 which provide earthing from the pipes are made from one of three materials according to the type: copper, passivated cadmium plated, or aluminium.

Les peignes ST permettent de maintenir des tuyauteries de même diamètre ou de diamètres différents dans trois montages :

NORMAL 1 – NORMAL 2 – SUPERPOSE

Ces montages sont réalisés en quatre séries de hauteur différente.

Le tableau ci-dessous permet de choisir la série en fonction des diamètres des tuyauteries que l'on désire assembler.

ST clamps allow pipes of the same or different diameters to be assembled in three ways:

NORMAL 1 – NORMAL 2 – TWO TIER

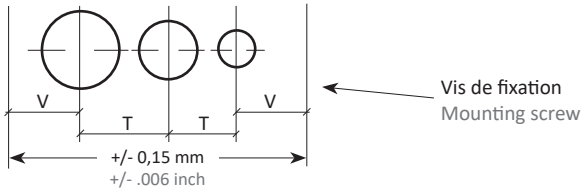
These assemblies are available in four height ranges.

The table below allows the correct range of parts to be selected according to the pipe diameter used.

Montage / Mounting	Série / Series	H2 Max		Diamètre tuyauterie / Pipe Diameter Métrique / Inches												
				4		6	8	10	12		16		20	25		32
		mm	inch	3/16		1/4	5/16	3/8	1/2		5/8		3/4	1		1/1/4
Normal 1 / Normal 1	408	20,2	.795	X		X	X									
	412	26,8	1.055	X	X	X	X	X	X							
	420	34,6	1.362			X	X	X	X	X	X	X	X			
	432	48,2	1.898											X	X	X
Normal 2 / Normal 2	408	22,2	.874	X		X	X									
	412	26,8	1.055	X	X	X	X	X	X							
	420	34,6	1.362		X	X	X	X	X	X	X	X	X			
Superposé / Two tier	408	41,0	1.614	X		X	X									
	412	50,3	1.98	X	X	X	X	X	X							
	420	65,9	2.594		X	X	X	X	X	X	X	X	X			

ENTRAXES DE MONTAGE

CENTRE TO CENTRE IN THE ASSEMBLY



ENTRAXE V - ENTRE LA VIS DE FIXATION ET LA TUYAUTERIE

CENTRE TO CENTRE V - BETWEEN MOUNTING SCREW AND PIPES

Diamètres tuyauterie / Pipe diameter	mm	4	6	8	10	12	16	20	25	32
	inch.	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1/1/4
V	mm	9,5	9,5	10,5	11,5	12,5	14,5	16,5	19,5	22,5
	inch.	.374	.374	.413	.453	.492	.571	.65	.768	.886

ENTRAXE T - ENTRE LES TUYAUTERIES SANS INTERCALAIRES

CENTRE TO CENTRE T - BETWEEN PIPES WITHOUT SPACER

Diamètres tuyauterie / Pipe diameter	mm	4	6	8	10	12	16	20	25	32
mm	inch.	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1/1/4
4	3/16	9 (.354)	9 (.354)	10 (.394)	11 (.433)	12 (.472)	14 (.551)	16 (.63)	18,5 (.728)	22 (.866)
6	1/4	9 (.354)	9 (.354)	10 (.394)	11 (.433)	12 (.472)	14 (.551)	16 (.63)	18,5 (.728)	22 (.866)
8	5/16	10 (.394)	10 (.394)	11 (.433)	12 (.472)	13 (.512)	15 (.591)	17 (.669)	19,5 (.768)	23 (.906)
10	3/8	11 (.433)	11 (.433)	12 (.472)	13 (.512)	14 (.551)	16 (.63)	18 (.709)	20,5 (.807)	24 (.949)
12	1/2	12 (.472)	12 (.472)	13 (.512)	14 (.551)	15 (.591)	17 (.669)	19 (.748)	21,5 (.846)	25 (.984)
16	5/8	14 (.551)	14 (.551)	15 (.591)	16 (.63)	17 (.669)	19 (.748)	21 (.827)	23,5 (.925)	27 (1.063)
20	3/4	16 (.63)	16 (.63)	17 (.669)	18 (.709)	19 (.748)	21 (.827)	23 (.906)	25,5 (1.004)	29 (1.142)
25	1	18,5 (.728)	18,5 (.728)	19,5 (.768)	20,5 (.807)	21,5 (.846)	23,5 (.925)	25,5 (1.004)	28 (1.102)	31,5 (1.24)
32	1/1/4	22 (.866)	22 (.866)	23 (.906)	24 (.949)	25 (.984)	27 (1.063)	29 (1.142)	31,5 (1.24)	35 (1.378)

CARACTÉRISTIQUES TECHNIQUES
TECHNICAL DATA

Peignes ST non conducteurs et sans ressort.

ST pipe clamps (non conducting, without spring).

TENUE AUX FUIDES

Huile TN 150-EAU PURE
immersion à la température ambiante 48 heures
= pas de détérioration visible à l'oeil nu.

KEROSENE-ORONITE M2V-SKYDROL 500 B - Huile hydraulique H 515 - Huile lubrifiante MIL-L-7808
immersion à la température ambiante 20 heures
= pas de variation appréciable (≥2%) des dimensions.

RESISTANCE TO FLUIDS

Oil TN 150-PURE WATER
immersion at ambient temperature for 48 hours
= no deterioration visible to the naked eye.

KEROSENE-ORONITE M2V-SKYDROL 500 B - Hydrolic fluid H 515 - Lubricating oil MIL-L-7808
immersion at ambient temperature for 20 hours
= no significant (≥2%) change in dimensions.

CONDITIONS D'ENVIRONNEMENT

Brouillard salin (selon NF X 41002)
Solution 5% de ClNa - eau distillée déminéralisée - température 35° C : fonctionnement en continu 200 heures
= aucune corrosion apparente.

Ozone
Concentration en ozone : 0,010 à 0,015% en volume
Température de la chambre : 23° C +/- 2° C
Temps de séjour : 2 heures - Exposition sur toutes les faces
= aucune détérioration du peigne ST.

ENVIRONMENTAL CONDITIONS

SALT SPRAY (NF X 41002)
5% solution ClNa - demineralized distilled water - temperature 35° C: after 200 hours
= no visible corrosion.

Ozone
Ozone concentration as % of volume: .010 à .015
Temperature in chamber: 23° C +/- 2° C
Duration: 2 hours - Exposure of all surfaces
= no deterioration in the ST clamp.

Température
Profilé caoutchouc silicone fluoré (C3)
1h30 à 155° C - 15 mn à 210° C
= déformation permanente du joint au niveau des tubes sans influence mesurable sur la force de coulissement des tubes dans le montage.

Profile caoutchouc Rubber shape	C	Température Temperature	Déformation - Distorsion
Néoprène Neoprene	C1	- 40° C à/to + 100° C - 40° C à/to + 120° C - 50° C à/to + 150° C	normale - normal temporaire - temporary exceptionnelle - exceptional
Nitrile - Nitrile	C2	- 40° C à/to + 110° C	normale - normal
** Silicone fluoré ** Fluorinated silicone	C3	- 40° C à/to + 150° C	normale - normal

Temperature
Fluorinated silicone shape (C3)
90 mn at 155° C - 15 mn at 210° C
= permanent distortion of the joint at the pipes without measurable effect.

FLEXION ET COULISSEMENT

Entre deux peignes SERIE 412 de 5 demi-brides Ø 6 mm
- Distance entre tubes : 6 mm
- Longueur du peigne : 80 mm
- Entraxe de fixation du peigne : 70 mm
- **Entraxe entre les deux poignées : 400 mm et 500 mm**

FLEXION AND SLIPPAGE

For two SERIES 412 pipe clamps assemblies with 5 half clamp Ø .236 inch
- Tube separation: .236 inch
- Clamp assembly length: 3.15 inch
- Pipe clamp fixing centres: 2.756 inch
- **Centre to centre distance between the two pipe clamp assemblies: 15.748 and 19.685 inch**

FLEXION

(400 mm)

Profilé caoutchouc silicone fluoré (C3)				kg	cm²
Tube INOX	6 x 1	Pression verticale	Flèche 2 mm	2,2	1,2
Tube DURAL				1,4	0,85
Tube INOX		Pression latérale		2	0,95
Tube DURAL				1	0,50

FLEXION

(15.748 inch)

Fluorinated silicone rubber shape (C3)				kg	cm²
INOX pipe	6 x 1	Vertical pressure	Sag .079 inch	2,2	1,2
DURAL pipe				1,4	0,85
INOX pipe		Lateral pressure		2	0,95
DURAL pipe				1	0,50

COULISSEMENT (400 MM)

Sur un seul peigne avec profilé caoutchouc silicone fluoré (C3) pour un déplacement de 1 mm
- tube DURAL 6 x 1 Pression = 2 kg/cm²
- tube INOX 6 x 1 Pression = 1,8 kg/cm²

Entre deux peignes SERIE 420 de 3 demi-brides 20-6-20 mm
- Distance entre tubes : 6 mm
- Longueur du peigne : 80 mm
- Entraxe de fixation du peigne : 70 mm
- **Entraxe entre les deux poignées : 400 mm et 500 mm**

SLIPPAGE (15.748 INCH)

For a single clamp with a fluorinated silicone rubber (C3) shape and a displacement of .039 inch
- DURAL pipe 6 x 1 Pressure = 2 kg/cm²
- INOX pipe 6 x 1 Pressure = 1,8 kg/cm²

For two SERIES 420 pipe clamp assemblies with 3 half clamps .78-.23-.78 inch
- Pipe separation: .236 inch
- Clamp assembly length: 3.15 inch
- Pipe clamp fixing centres: 2.756 inch
- **Centre to centre distance between the two pipe clamp assemblies: 15.748 and 19.685 inch**

FLEXION

(500 mm)

Profilé caoutchouc silicone fluoré (C3)				kg	cm²
Tube INOX	20 x 1	Pression verticale	Flèche 0,5 mm		14
Tube DURAL	20 x 1		Flèche 1 mm		7
Tube DURAL	6 x 1		Flèche 2 mm	0,8	0,3
Tube INOX	20 x 1	Pression latérale	Flèche 0,5 mm		16
Tube DURAL	20 x 1		Flèche 1mm		10
Tube DURAL	6 x 1		Flèche 2mm	0,55	0,3

FLEXION

(19.685 inch)

Fluorinated silicone rubber shape (C3)				kg	cm²
INOX pipe	20 x 1	Vertical pressure	Sag .197 inch		14
DURAL pipe	20 x 1		Sag .039 inch		7
DURAL pipe	6 x 1		Sag .079 inch	0,8	0,3
INOX pipe	20 x 1	Lateral pressure	Sag .197 inch		16
DURAL pipe	20 x 1		Sag .039 inch		10
DURAL pipe	6 x 1		Sag .079 inch	0,55	0,3

COULISSEMENT (500 MM)

Sur un seul peigne avec profilé caoutchouc silicone fluoré (C3) pour un déplacement de 1 mm
- tube DURAL 20 x 1 Pression = 5,5 kg/cm²
- tube INOX 20 x 1 Pression = 5 kg/cm²
- tube DURAL 6 x 1 Pression = 1,6 kg/cm²

SUPPORT MÉTALLIQUE

Matière : Dural ASG 05 T5
Protection
peignes conducteurs : Alodine 1200 conductrice
peignes non conducteurs : Oxydation anodique bichromatée

VIS DE FIXATION

- Acier 35 NC 6 cadmié bichromaté
- Titane TA - 6V oxydé anodiquement
- couple de serrage : 3,5 nM

MATIÈRE MOULÉE

Thermoplastique protégé chaleur

CARACTÉRISTIQUES ÉLECTRIQUES

Supports ST conducteurs

RÉSISTANCE DE CONTACT

Entre tuyauteries et entre tuyauteries / structure : inférieure à 150 milliohms

SLIPPAGE (19.685 INCH)

For a single clamp with a fluorinated silicone rubber (C3) shape and a displacement of .039 inch
- DURAL pipe 20 x 1 Pressure = 5,5 kg/cm²
- INOX pipe 20 x 1 Pressure = 5 kg/cm²
- DURAL pipe 6 x 1 Pressure = 1,6 kg/cm²

METAL RAIL

Material: Dural ASG 05 T5
Protection
conducting clamps: Conducting Alodine 1200
non conducting clamps: Oxalic anodized dichromated

MOUNTING SCREW

- Cadmium plated and dichromated steel 35 NC 6
- Anodized titanium TA - 6V
- Tightening torque: 3,5 nM

MOULDED PART

Heat resistant thermoplastic

ELECTRICAL CHARACTERISTICS

Rails ST conducting

CONTACT RESISTANCE

Less than 150 milliohms between pipes and between pipes and structure

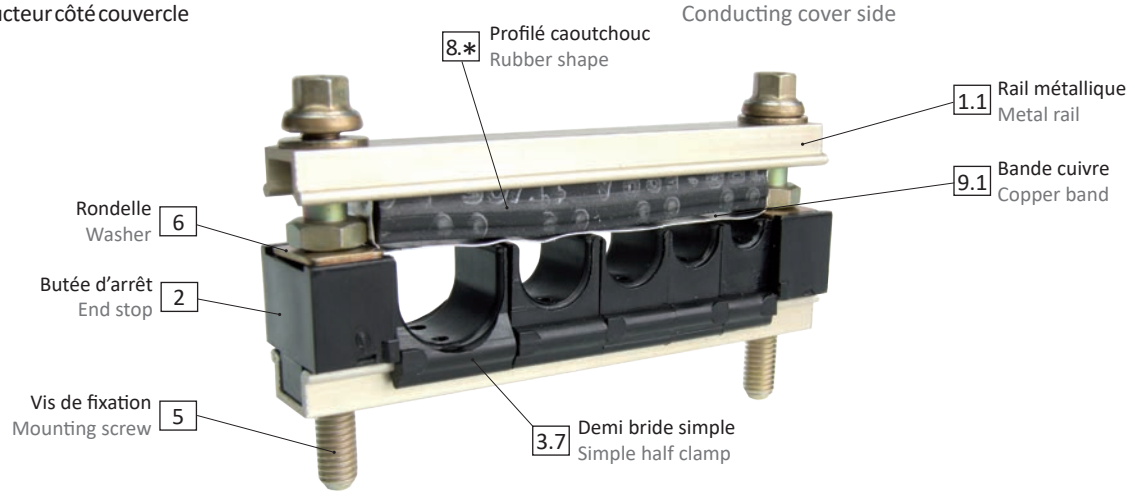
PEIGNES MODULAIRES TYPE 95 000 D - 95 000 C
MODULAR CLAMPBLOCKS 95 000 D - 95 000 C SERIES

TYPE 95 000 D

Conducteur côté couvercle

95 000 D SERIES

Conducting cover side



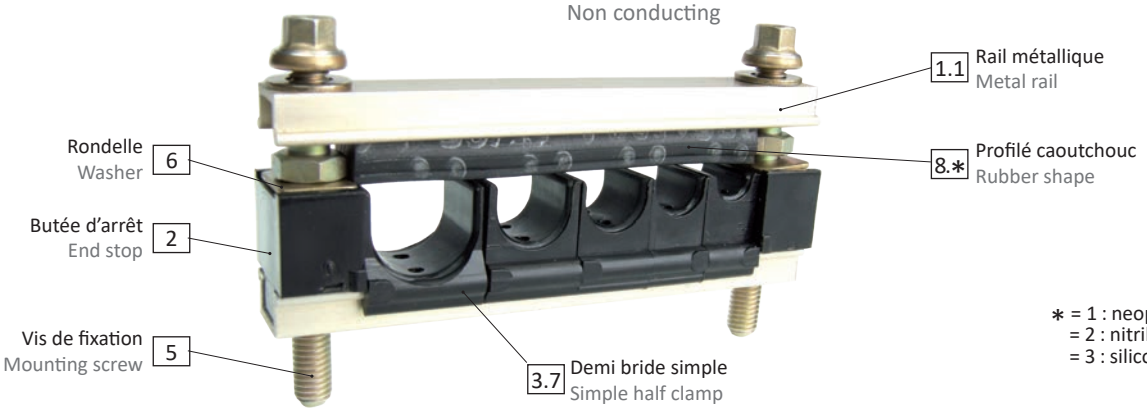
∗ = 1 : neoprene
= 2 : nitrile
= 3 : silicone

TYPE 95 000 C

Non conducteur

95 000 C SERIES

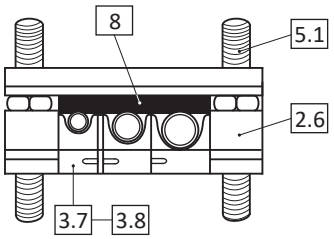
Non conducting



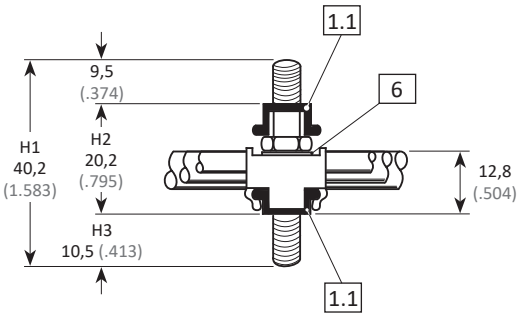
∗ = 1 : neoprene
= 2 : nitrile
= 3 : silicone

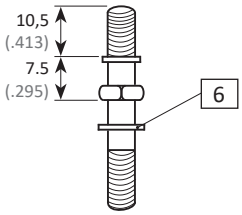
MONTAGE NORMAL 1
NORMAL MOUNTING 1

SÉRIE 408

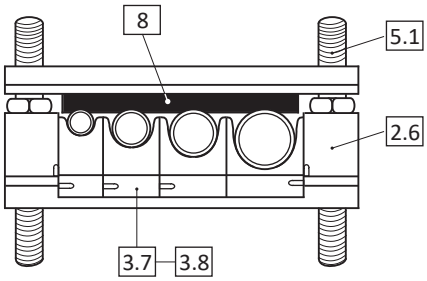


408 SERIES

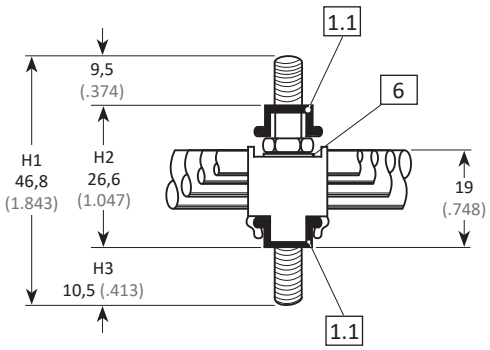


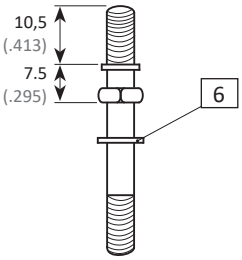


SÉRIE 412

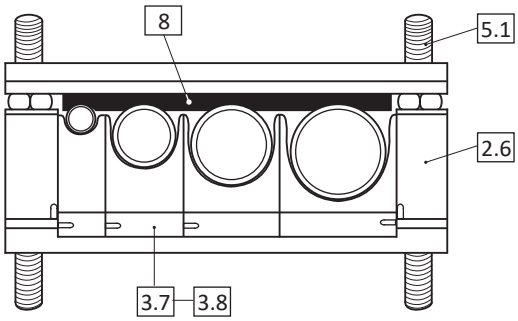


412 SERIES

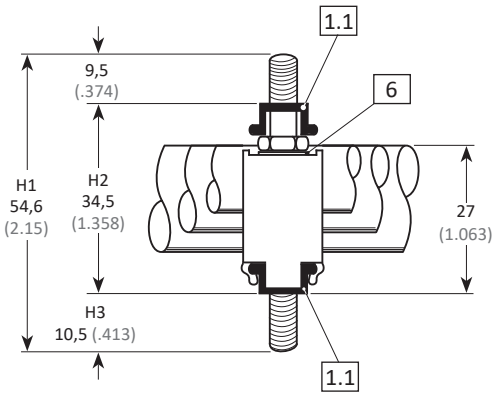


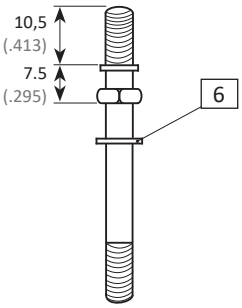


SÉRIE 420

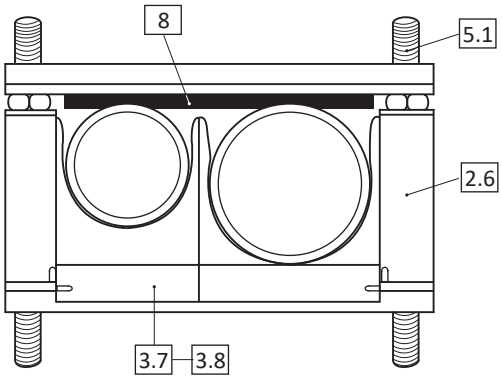


420 SERIES

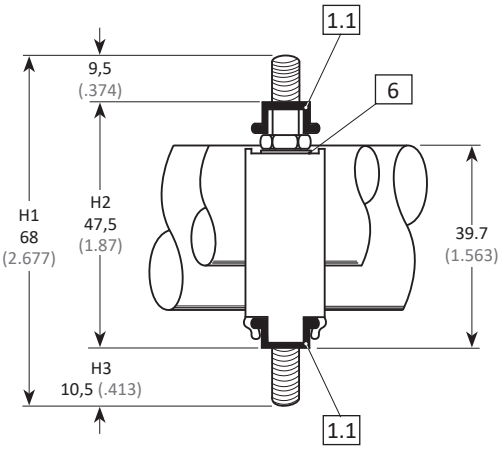


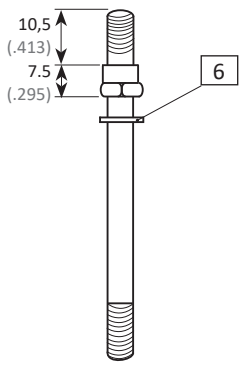


SÉRIE 432



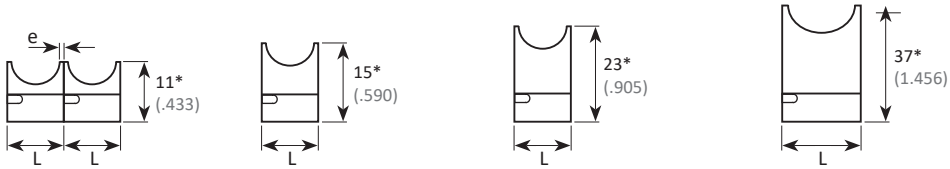
432 SERIES





3 DEMI BRIDES MÉTRIQUES

3.7 Demi brides structure



Ø tuyauterie Pipe Ø		e		L	
mm	inch	mm	inch	mm	inch
4	.157	2,5	.098	9	.354
5	.197	2,0	.079	9	.354
6	.236	1,5	.059	9	.354
8	.315	1,5	.059	11	.433
10	.394	1,5	.059	13	.512
12	.472	1,5	.059	15	.59
14	.551	1,5	.059	17	.669
16	.63	1,5	.059	19	.748
18	.709	1,5	.059	21	.827
20	.787	1,5	.059	23	.906
22	.866	3,0	.118	28	1.102
25	.984	1,5	.059	28	1.102
28	1.102	3,5	.138	35	1.378
32	1.26	1,5	.059	35	1.378

Série Series	408	Série Series	412	Série Series	420	Série Series	432
Référence Part number	Masse Weight g	Référence Part number	Masse Weight g	Référence Part number	Masse Weight g	Référence Part number	Masse Weight g
095044 857 33	0,9	095040 857 33	1,2				
		095050 857 33	1,1	095052 857 33	1,3		
095046 857 33	0,8	095060 857 33	1,1	095062 857 33	1,3		
095048 857 33	0,7	095080 857 33	1,2	095082 857 33	1,5		
		095100 857 33	1,1	095102 857 33	1,6		
		095120 857 33	1,0	095122 857 33	1,7		
				095142 857 33	1,7		
				095162 857 33	1,7		
				095182 857 33	2,1		
				095202 857 33	2,2		
						095251 857 33	4,0
						095281 857 33	3,6
						095321 857 33	3,6

* Dimension approximative pour cause de jeux.

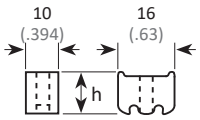
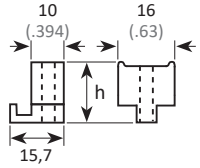
3 METRIC HALF CLAMPS

3.7 Half clamps structure side

* Rough dimension only.

ACCESSOIRES

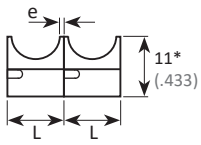
ACCESSORIES

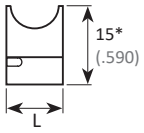
			408		412		420		432	
1.11	Rail métallique standard Standard metal rail		Page 52		Page 52		Page 52		Page 52	
1.4	Rail métallique réduit Small metal rail		Page 52							
4.1	Intercalaire Spacer	1 mm (.039 inch)	412501 000 34	0,1	420501 000 34	0,2	432501 000 34	0,3	432501 000 34	0,3
		2 mm (.079 inch)	412502 000 34	0,2	420502 000 34	0,3	432502 000 34	0,5	432502 000 34	0,5
		3 mm (.118 inch)	412503 000 34	0,3	420503 000 34	0,4	432503 000 34	0,7	432503 000 34	0,7
		10 mm (.394 inch)	412510 000 34	0,9	420510 000 34	0,9	432510 000 34	1,1	432510 000 34	1,1
5.1	Vis acier (Métrique) Steel screw		095770 935 86 PEQ	6,3	412770 935 86 PEQ	7,2	420770 935 86 PEQ	8,3	432770 935 86 PEQ	8,3
	Vis titane (Métrique) Titanium screw		095660 935 62	4,0	412660 935 62	4,3	420660 935 62	5,0	432660 935 62	5,0
6.1	Rondelle / Washer		091033 000 86 PEQ	0,3	091033 000 86 PEQ	0,3	091033 000 86 PEQ	0,3	091033 000 86 PEQ	0,3
7.2	Ecrou / Nut		000801 050 61	1,2	000801 050 61	1,2	000801 050 61	1,2	000801 050 61	1,2
2.6	Butée d'arrêt / End stop 		095057 115 34 h = 11,5 mm (.453 inch)	1,3						
2.7					095010 169 34 h = 16,9 mm (.665 inch)	2,4	095012 249 34 h = 24,9 mm (.980 inch)	3,7	095016 879 34 h = 37,9 mm (1.492 inch)	5,9
8	Profilé caoutchouc Shape		Page 52		Page 52		Page 52		Page 52	
9.1	Bande de masse Earth band									

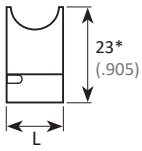
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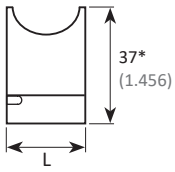
3 DEMI BRIDES INCHES

3.7 Demi brides structure









Ø tuyauterie Pipe Ø		e		L		Série Series 408		Série Series 412		Série Series 420		Série Series 432	
inch	mm	inch	mm	inch	mm	Référence Part number	Masse Weight g	Référence Part number	Masse Weight g	Référence Part number	Masse Weight g	Référence Part number	Masse Weight g
3/16	4,76	.083	2,12	.354	9	095044 949 34	0,9	095040 949 34	1,2				
1/4	6,35	.052	1,32	.354	9	095046 949 34	0,8	095060 949 34	1,1	095062 949 34	1,3		
5/16	7,94	.06	1,53	.433	11	095048 949 34	0,7	095080 949 34	1,2	095082 949 34	1,5		
3/8	9,52	.069	1,74	.512	13			095100 949 34	1,1	095102 949 34	1,6		
1/2	12,7	.045	1,15	.59	15			095120 949 34	1,0	095122 949 34	1,7		
5/8	15,87	.061	1,56	.748	19					095162 949 34	1,8		
3/4	19,05	.078	1,97	.906	23					095202 949 34	2,2	095201 949 34	4,8
1	25,40	.051	1,30	1.102	28							095251 949 34	4,0
1 1/4	31,75	.064	1,62	1.378	35							095321 949 34	3,6

* Dimension approximative pour cause de jeux.

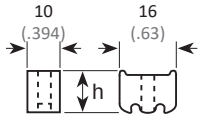
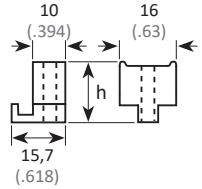
3 IMPERIAL HALF CLAMPS

3.7 Half clamps structure side

* Rough dimension only.

ACCESSOIRES

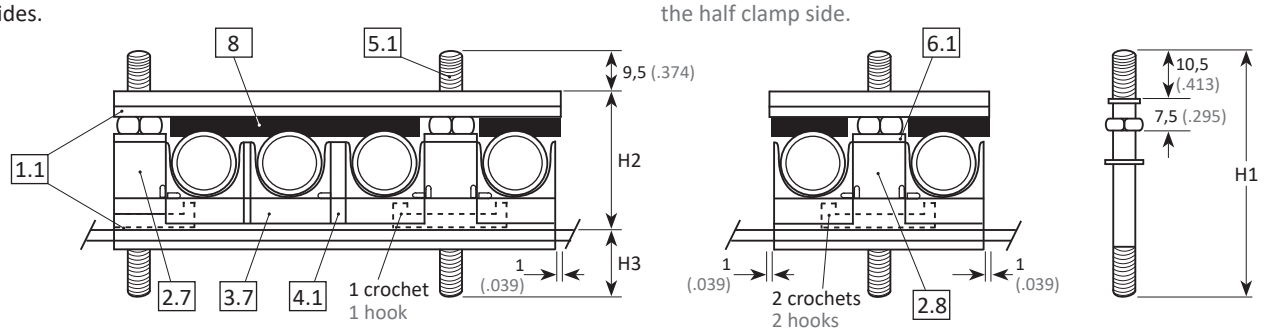
ACCESSORIES

1.11	Rail métallique standard Standard metal rail		Page 52		Page 52		Page 52		Page 52		
1.4	Rail métallique réduit Small metal rail		Page 52								
4.1	Intercalaire Spacer	1 mm (.039 inch)	412501 000 34	0,1	420501 000 34	0,2	432501 000 34	0,3	432501 000 34	0,3
		2 mm (.079 inch)	412502 000 34	0,2	420502 000 34	0,3	432502 000 34	0,5	432502 000 34	0,5
		3 mm (.118 inch)	412503 000 34	0,3	420503 000 34	0,4	432503 000 34	0,7	432503 000 34	0,7
		10 mm (.394 inch)	412510 000 34	0,9	420510 000 34	0,9	432510 000 34	1,1	432510 000 34	1,1
5.1	Vis acier (Métrique) Steel screw		095760 949 86 PEQ	6,3	412760 949 86 PEQ	7,2	420760 949 86 PEQ	8,3	432760 949 86 PEQ	10,3
	Vis titane (Métrique) Titanium screw		095650 949 62	4,0	412650 949 62	4,3	420650 949 62	5,0	432650 949 62	6,3
6.1	Rondelle / Washer		091033 000 86 PEQ	0,3	091033 000 86 PEQ	0,3	091033 000 86 PEQ	0,3	091033 000 86 PEQ	0,3
7.2	Ecrou / Nut		000873 190 61	1,2	000873 190 61	1,2	000873 190 61	1,2	000873 190 61	1,2
2.6	Butée d'arrêt / End stop 		095057 115 34 h = 11,5 mm (.453 inch)	1,3							
2.7					095010 169 34 h = 16,9 mm (.665 inch)	2,4	095012 249 34 h = 24,9 mm (.980 inch)	3,7	095016 879 34 h = 37,9 mm (1.492 inch)	5,9
8	Profilé caoutchouc Shape		Page 52		Page 52		Page 52		Page 52		
9.1	Bande de masse Earth band										

MONTAGE NORMAL 2 - À ACCROCHAGE LATÉRAL
NORMAL MOUNTING 2 - LATERAL ATTACHMENT

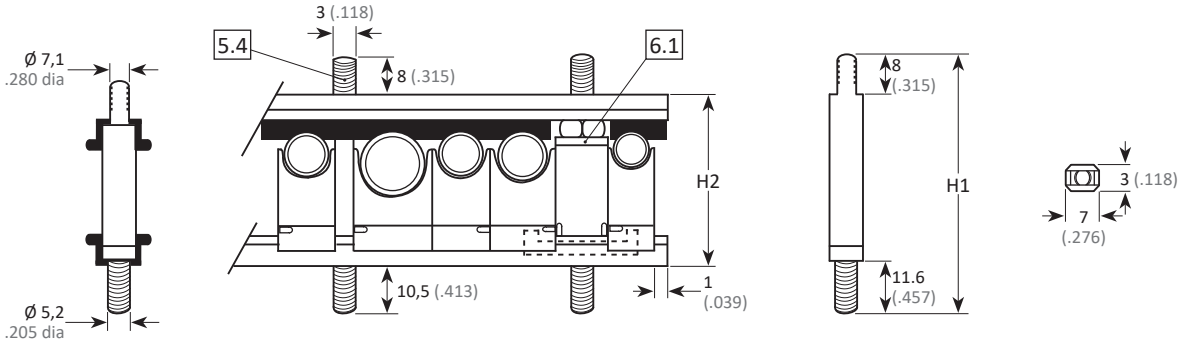
Avec ce montage, ajouter 1 mm aux supports, côté couvercle et côté demi-brides.

With this mounting add .039 inch to the rail on the cover side and on the half clamp side.



Accessoires / Accessories			Série / Series 408 Référence / Part number	Masse / Weight g	Série / Series 412 Référence / Part number	Masse / Weight g	Série / Series 420 Référence / Part number	Masse / Weight g
2.7	Butée d'arrêt / End stop 10 (.394) 16 (.63) h 15,7 (.618)		095067 125 34 h = 12,5 mm (.492 inch)	1,8	095010 169 34 h = 16,9 mm (.665 inch)	2,4	095012 249 34 h = 24,9 mm (.98 inch)	3,7
2.8	10 (.394) 16 (.63) h 15,7 (.618)		095068 125 34 h = 12,5 mm (.492 inch)	2,0	095011 169 34 h = 16,9 mm (.665 inch)	2,5	095013 249 34 h = 24,9 mm (.98 inch)	3,8
5.1	Vis acier / Steel screw	Métrique	095079 935 86 PEQ	6,6	412770 935 86 PEQ	7,2	420770 935 86 PEQ	8,3
		Inches	095079 949 61	6,6	412760 949 86 PEQ	7,2	420760 949 86 PEQ	8,3
	Vis titane / Titanium screw	Métrique	095079 935 62	4,1	412660 935 62	4,3	420660 935 62	5,0
		Inches	095079 949 62	4,1	412650 949 62	4,3	420650 949 62	5,0
	mm (inch)	H1	42,2 (1.661)		46,8 (1.843)		54,6 (2.15)	
		H2	22,2 (.874)		26,6 (1.047)		34,5 (1.358)	
		H3	10,5 (.413)		10,5 (.413)		10,5 (.413)	

MONTAGE NORMAL 3 - À FIXATION INTERMÉDIAIRE
NORMAL MOUNTING 3 - WITH INTERMEDIATE MOUNTING POINT



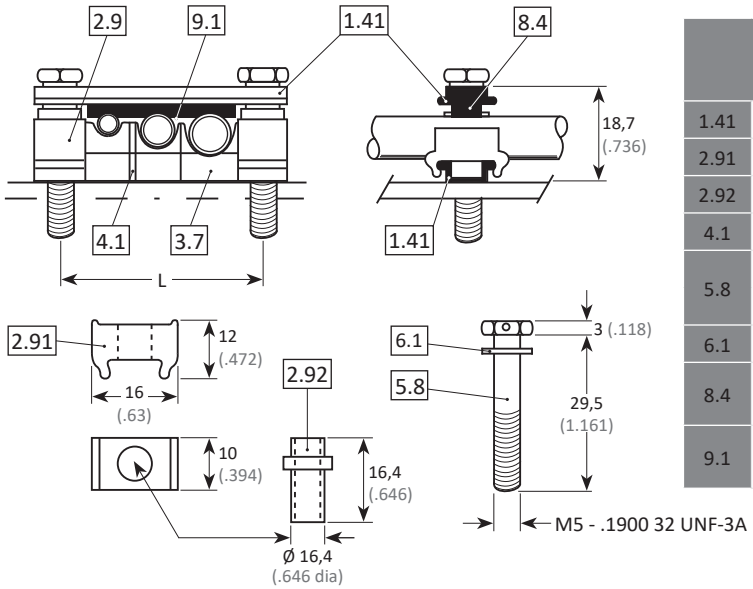
Vis de fixation / Mounting screw			Série / Series 412 Référence / Part number	Masse / Weight g	Série / Series 420 Référence / Part number	Masse / Weight g
5.4	Vis acier / Steel screw	Métrique	412775 935 61	6,2	420775 935 61	7,5
		Inches	412765 949 86 PEQ	6,2	420765 949 86 PEQ	7,5
	Vis titane / Titanium screw	Métrique	412665 935 62	3,6	420665 935 62	4,4
		Inches	412655 949 62	3,6	420655 949 62	4,4
	mm (inch)	H1	45,2 (1.78)		53,0 (2.087)	
		H2	26,6 (1.047)		34,5 (1.358)	

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MONTAGE NORMAL 4 - À HAUTEUR RÉDUITE
NORMAL MOUNTING 4 - REDUCED HEIGHT

Série 408 - L 50 mm maxi

408 Series - L 1.969 inch max.



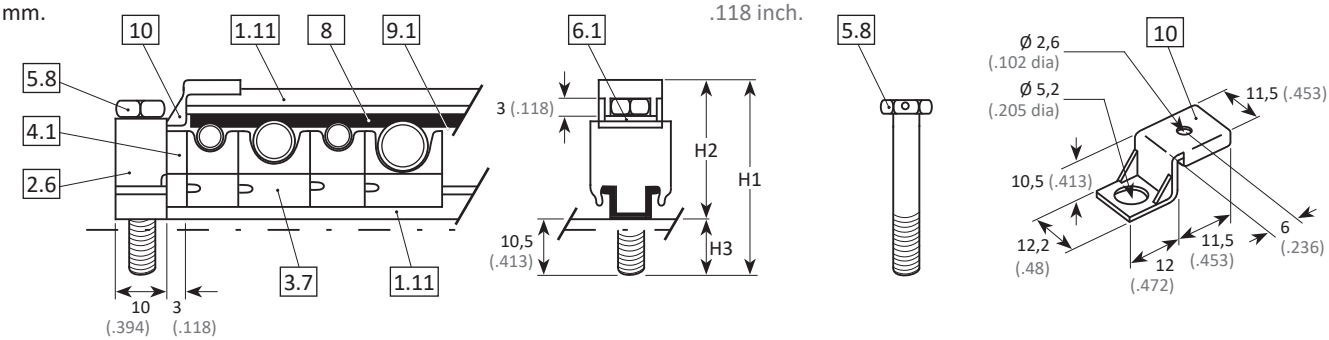
Accessoires / Accessories		
1.41	Rail réduit / Small rail	
2.91	Butée d'arrêt / End stop	
2.92	Entretoise / Bracer	
4.1	Intercalaire / Spacer	
5.8	Vis acier / Steel screw	Métrique
		Inches
6.1	Rondelle / Washer	
8.4	Caoutchouc réduit / Reduced shape	
9.1	Bande métallisation / Earth band	

Référence / Part number	Masse / Weight g
Page 52	
095055 115 34	1,10
095056 001 77	0,95
Page 52	
091036 935 61	5,00
091036 949 61	5,00
091033 000 86 PEQ	0,30
095015 000 80	72,00 m meter
095006 000 86 PEQ	11,80 m meter

MONTAGE NORMAL 5 - À FIXATION HAUTEUR RÉDUITE
NORMAL MOUNTING 5 - REDUCED HEIGHT FIXING

Fixation réduite à l'aide d'une bride 10 en acier cadmié et d'une vis à tête hexagonale 5.8.
La bride est rivetée sur le support métallique avec un rivet TF de 2,5 x 3 mm.

Reduced mounting using a clamp 10 made of cadmium plated steel and a hexagonal head screw 5.8.
The clamp is riveted to the metal rail by means of a TF rivet .098 x .118 inch.

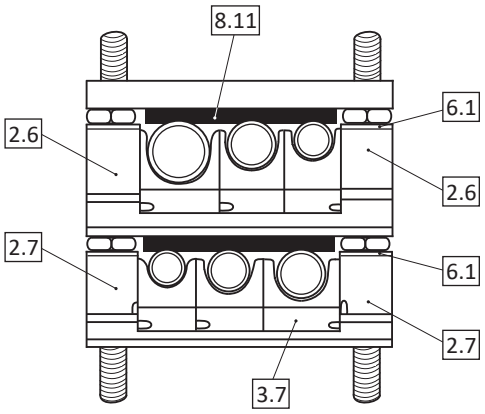


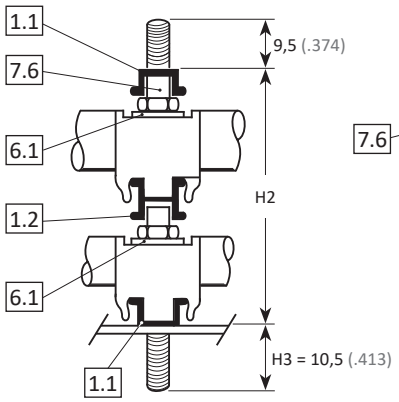
Accessoires / Accessories			Série / Series 408		Série / Series 412		Série / Series 420	
			Référence / Part number	Masse / Weight g	Référence / Part number	Masse / Weight g	Référence / Part number	Masse / Weight g
1.1	Rail métallique standard / Standard metal rail		Page 52		Page 52		Page 52	
2.6	Butée d'arrêt / End stop		095057 115 34	1,30	095010 169 34	2,40	095012 249 34	3,70
4.1	Intercalaire / Spacer		412503 000 34	0,40	420503 000 34	0,40	432503 000 34	0,70
5.8	Vis acier / Steel screw	Métrique	091038 935 61	4,10	091036 935 61	5,10	091037 935 61	6,30
		Inches	091038 949 61	4,10	091036 949 61	5,10	091037 949 61	6,30
6.1	Rondelle / Washer		091033 000 86 PEQ	0,30	091033 000 86 PEQ	0,30	091033 000 86 PEQ	0,30
8	Profilé caoutchouc / Shape		Page 52		Page 52		Page 52	
9.1	Bande métallisation / Earth band		095006 000 86 PEQ	11,80 m meter	095006 000 86 PEQ	11,80 m meter	095006 000 86 PEQ	11,80 m meter
10	Bride acier / Steel clamp		091035 000 61	3,10	091035 000 61	3,10	091035 000 61	3,10
mm (inch)		H2	21,50 (.846)		28 (1.102)		36 (1.417)	
		H1	26 (1.024)		32,50 (1.28)		40,50 (1.594)	
		*H4	40 (1.575)		53 (2.087)		69 (2.717)	

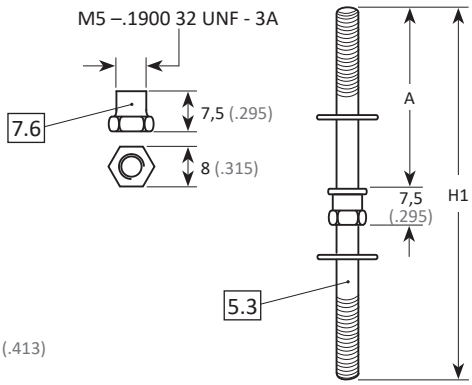
*H4 = hauteur de dégagement des vis de fixation.

*H4 = height of mounting to the mounting screw.

MONTAGE SUPERPOSÉ (408 X 408 / 412 X 412 / 420 X 420)
TWO TIER MOUNTING (408 X 408 / 412 X 412 / 420 X 420)





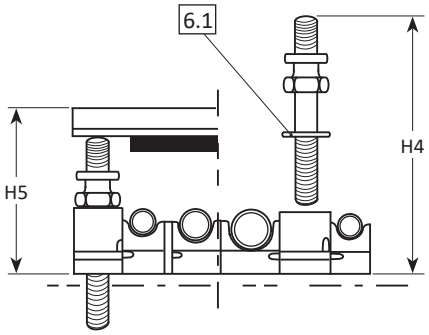


	Accessoires / Accessories		Série / Series 408/408		Série / Series 412/412		Série / Series 420/420	
			Référence / Part number	Masse / Weight g	Référence / Part number	Masse / Weight g	Référence / Part number	Masse / Weight g
1.1	Rail standard / Standard rail		Page 52	57,50	Page 52	57,50	Page 52	57,50
1.2	Rail double / Double rail		Page 52	90,00	Page 52	90,00	Page 52	90,00
2.6	Butée d'arrêt / End stop 10 (.394) 16 (.63) h		095057 115 34 h = 11,5 mm (.453 inch)	1,3	095007 148 34 h = 14,8 mm (.583 inch)	2,2	095008 224 38 h = 22,8 mm (.898 inch)	3,7
2.7	10 (.394) 16 (.63) h 15,7 (.618)		095067 125 34 h = 12,5 mm (.492 inch)	1,8	095010 169 34 h = 16,9 mm (.665 inch)	2,4	095012 249 34 h = 24,9 mm (.98 inch)	3,7
5.3	Vis acier / Steel screw	Métrique	095774 935 86 PEQ	9,4	412774 935 86 PEQ	10,8	420774 935 86 PEQ	12,8
		Inches	095764 949 86 PEQ	9,4	412764 949 86 PEQ	10,8	420764 949 86 PEQ	12,8
	Vis titane / Titanium screw	Métrique	095664 935 62	5,7	412664 935 62	6,6	420664 935 62	7,4
		Inches	095654 949 62	5,7	412654 949 62	6,6	420654 949 62	7,4
	mm (inch)	A	29,5 (1.161)		34 (1.339)		41,6 (1.638)	
		H1	61,0 (2.401)		70,3 (2.768)		85,9 (3.382)	
		H2	41,0 (1.614)		49,8 (1.96)		65,7 (2.587)	
6.1	Rondelle / Washer		091033 000 86 PEQ	0,3	091033 000 86 PEQ	0,3	091033 000 86 PEQ	0,3
7.6	Ecrou / Nut	Métrique	432976 935 86 PEQ	1,6	432976 935 86 PEQ	1,6	432976 935 86 PEQ	1,6
		Inches	432966 949 86 PEQ	1,6	432966 949 86 PEQ	1,6	432966 949 86 PEQ	1,6

HAUTEUR DE DÉMONTAGE
HEIGHT OF MOUNTING

H4 : vis de fixation
H5 : couvercle

H4: Mounting screw
H5: Cover



*	Série / Series	H4 mm	H4 inch	H5 mm	H5 inch
1	408	55	2.165	36,5	1.437
	412	68	2.677	43	1.693
	420	84	3.307	51	2.008
	432	110	4.331	64	2.52
2	408	57	2.244	38,5	1.516

* Montage normal / Normal mounting (1) ou / or (2)

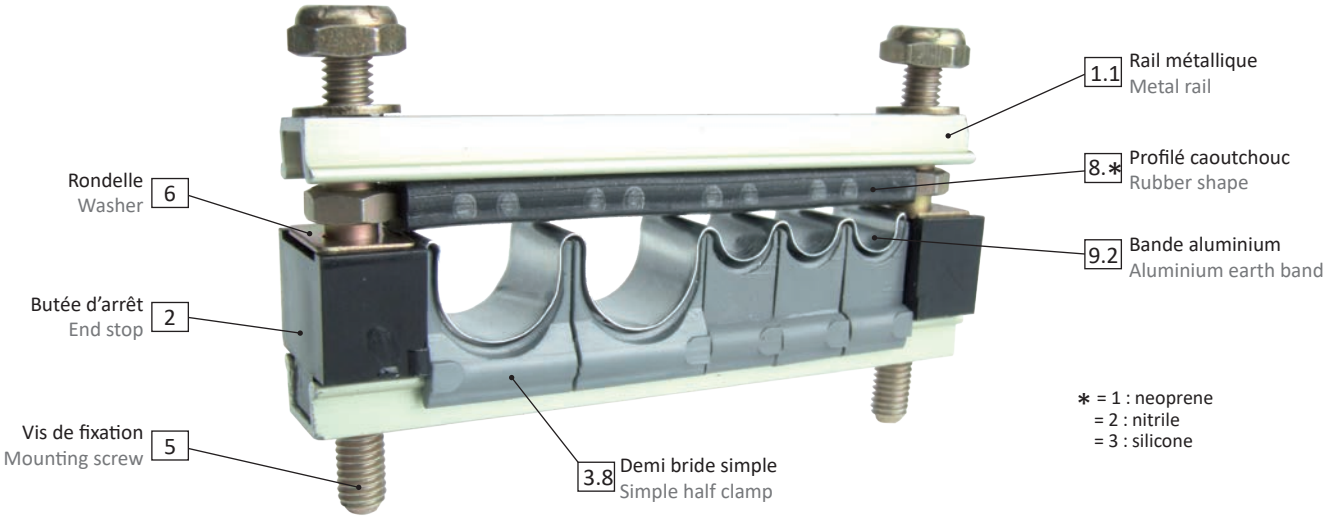
PEIGNES MODULAIRES TYPE 195 000 E
MODULAR CLAMPBLOCKS 195 000 E SERIES

TYPE 195 000 E

Conducteur côté demi brides

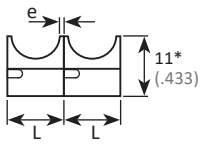
195 000 E SERIES

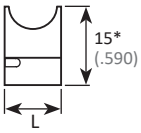
Conducting half clamps

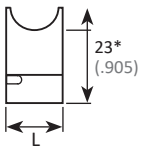


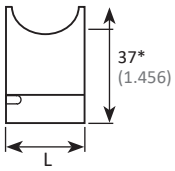
3 DEMI BRIDES MÉTRIQUES

3.8 Demi brides simples, non conductrices, pour bande de masse 9.2









* Dimension approximative pour cause de jeux.

3 METRIC HALF CLAMPS

3.8 Simple half clamps, non conducting, for earth strip 9.2

* Rough dimension only.

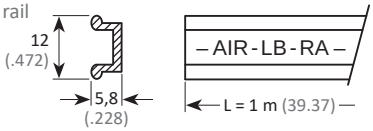
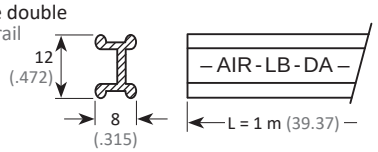
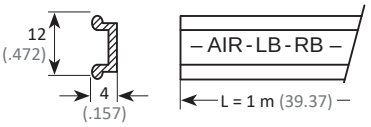
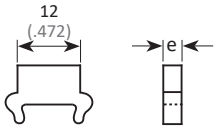
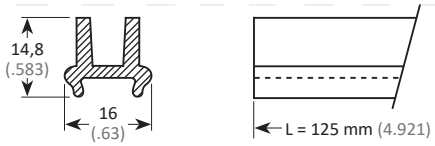
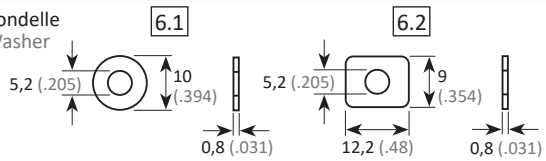
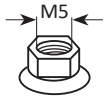
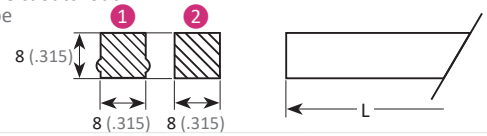
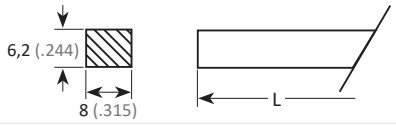
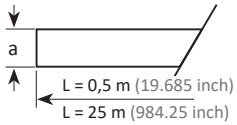
Ø tuyauterie Pipe Ø		e		L		Série Series 408		Série Series 412		Série Series 420		Série Series 432	
mm	inch	mm	inch	mm	inch	Référence Part number	Masse Weight g	Référence Part number	Masse Weight g	Référence Part number	Masse Weight g	Référence Part number	Masse Weight g
4	.157	2,5	.098	9	.354	195044 857 50	0,9	195040 857 50	1,2				
5	.197	2,0	.079	9	.354			195050 857 50	1,1	195052 857 50	1,3		
6	.236	1,5	.059	9	.354	195046 857 50	0,8	195060 857 50	1,1	195062 857 50	1,3		
8	.315	1,5	.059	11	.433	195048 857 50	0,7	195080 857 50	1,2	195082 857 50	1,5		
10	.394	1,5	.059	13	.512			195100 857 50	1,1	195102 857 50	1,6		
12	.472	1,5	.059	15	.59			195120 857 50	1,0	195122 857 50	1,7		
14	.551	1,5	.059	17	.669					195142 857 50	1,7		
16	.63	1,5	.059	19	.748					195162 857 50	1,7		
18	.709	1,5	.059	21	.827					195182 857 50	2,1		
20	.787	1,5	.059	23	.906					195202 857 50	2,2		
22	.866	3,0	.118	28	1.102								
25	.984	1,5	.059	28	1.102							195251 857 50	4,0
28	1.102	3,5	.138	35	1.378							195281 857 50	3,6
32	1.26	1,5	.059	35	1.378							195321 857 50	3,6

Diamètres tuyauteries spéciaux

Special pipes diameter

15,0	.59	2,0	.079	19	.748					195152 857 50			
15,5	.61	1,75	.069	19	.748					195163 857 50	1,9		
21,0	.827	3,5	.138	28	1.102							195252 857 50	5,2
22,5	.886	2,75	.108	28	1.102							195253 857 50	4,7
23,5	.925	2,25	.089	28	1.102							195254 857 50	4,6
25,5	1.004	1,25	.049	28	1.102							195255 857 50	3,6

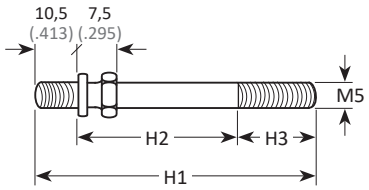
ACCESSOIRES
ACCESSORIES

		Matière / Material	Protection / Protection		Référence / Part number	Masse / Weight g
1.1	Rail métallique standard / Standard metal rail (RA) 	DURAL ASG 05 T5	ALODINE 1 200	1.11	(1) 021151 002 09	57,5*
			Oxydation anodique bichromatée / Oxalic anodized dichromated	1.12	(2) 021151 002 10	
1.2	Rail métallique double / Double metal rail (DA) 	DURAL ASG 05 T5	ALODINE 1 200	1.21	(1) 091150 002 09	90,0*
			Oxydation anodique bichromatée / Oxalic anodized dichromated	1.22	(2) 091150 100 10	
1.4	Rail métallique réduit / Small metal rail (RB) 	DURAL ASG 05 T5	ALODINE 1 200	1.41	(1) 021141 002 09	40,0*
			Oxydation anodique bichromatée / Oxalic anodized dichromated	1.42	(2) 021141 002 10	
4.1	Intercalaire / Spacer 	Thermo-plastique noir / Black thermoplastic	Protégé chaleur / Heat resistant		Pages 46-47	
4.2					096005 000 34	11,4
6	Rondelle / Washer 	ACIER / STEEL	Cadmié bichromaté / Dichromated cadmium	6.1	091033 000 86 PEQ	0,3
				6.2	091034 000 86 PEQ	
7	Ecrou auto-freiné / Self locking nut 	Métrique	NYLSTOP M5	ACIER / STEEL	7.1	000721 050 07	1,17
			SIMLOC 5 RH 8035 M		7.2	000801 050 61	1,20
		Inches	KAYLOCK.1900 32 UNF 3A		7.3	000873 190 61	
8	Profilé caoutchouc / Shape 	① NEOPRENE	L = 2 m (78.74 inch)		8.1	095014 000 80	90,0*
		② NITRILE	L = 2 m (78.74 inch)		8.2	095014 101 80	80,0*
		② SILICONE	L = 0,5 m (19.685 inch)		8.2	095014 719 81	95,0*
	Profilé caoutchouc réduit / Shape reduced 	NEOPRENE	L = 2 m (78.74 inch)		8.4	095015 000 80	72,0*
9	Bande de masse / Earth band 	CUIVRE / COPPER	Cadmié passivé / Passivated cadmium plated		9.1	095006 000 86 PEQ	11,8*
		a = 6,9 x 0,2 mm (.272 x .008 inch)					
		ALUMINIUM 1050 A a = 12 x 0,2 mm (.472 x .008 inch)			9.2	091006 000 78	6,6*
	Vis de fixation / Mounting screw	ACIER 35 NC 6 / STEEL 35 NC 6	Cadmié bichromaté / Dichromated cadmium		Pages 44 - 53		
		TITANE TA-6V / TA-6V TITANIUM	Oxydé anodiquement / Oxalic anodized				

(1) Peignes conducteurs / Conducting pipe clamp.
(2) Peignes non conducteurs / Non conducting pipe clamp.
* Le mètre de rail / The rail meter.

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VIS DE FIXATION SPÉCIALES (MONTAGE NORMAL PAGE 48)



SPECIAL MOUNTING SCREWS (NORMAL MOUNTING PAGE 48)

Série Group	H1 mm (inch)	H2 mm (inch)	H3 mm (inch)	Masse Weight g	Référence Part number
408	42,5 (1.673)	20,2 (.795)	13,0 (.512)	6,6	095058 935 61
	44,5 (1.752)	22,2 (.874)	13,0 (.512)	7,0	*095069 935 86 PEQ
412	49,0 (1.929)	26,6 (1.047)	13,0 (.512)	7,5	095021 935 86 PEQ
420	57,0 (2.224)	34,5 (1.358)	13,0 (.512)	8,7	095023 935 61
432	70,0 (2.756)	47,5 (1.87)	13,0 (.512)	10,7	095018 935 61

* Montage normal à accrochage latéral
Normal mounting lateral attachment
(page 48)

RÉFÉRENTIEL
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00080105061			46, 52
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02115100209	A0009RAXXX	1750RAXXX	52
02115100210	A0009RAXXX	1750RAXXX	52
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09510085733			46
09510094934			47
09510285733			46
09510294934			47
09512085733			46
09512094934			47

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09512294934			47
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09516285733			46
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19525585750			51
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43277093586PEQ	A0009C770		46
43296694986PEQ	A0009-966		50
43297693586PEQ	A0009-979	7150NDN	50

Amphenol Air LB

Your Satisfaction. Everyday. Everywhere.

Nitrile monoblock pipe clamps
PAN 4231 series

Peignes monoblocs nitrile série PAN 4231

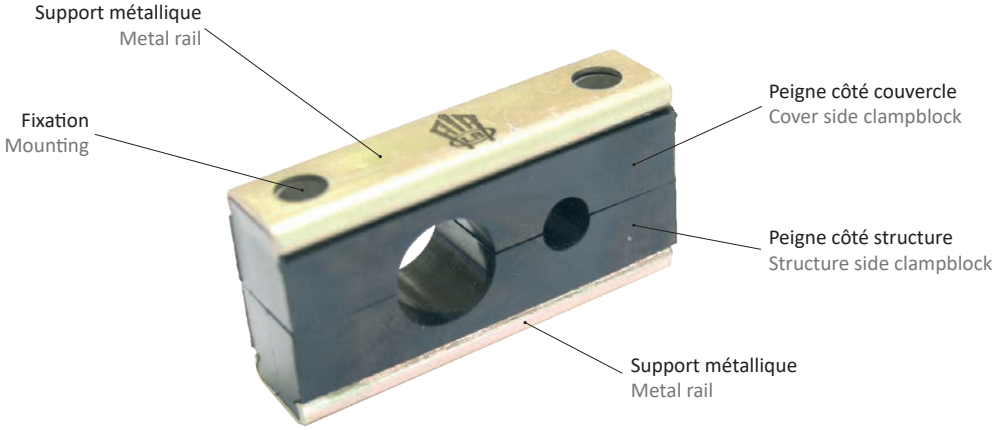


PIPE CLAMPS

PEIGNES & SUPPORTS DE TUYAUTERIE

Product Catalogue 09/24 - V2.1

PRÉSENTATION
PRESENTATION



Cette version de peigne support de tuyauterie monobloc est conforme aux spécifications de la norme PAN 4231 (PANAVIA) pour tuyauteries de diamètres 5 à 28 mm.

Chaque peigne se compose de deux demi-peignes symétriques monoblocs qui sont moulés en nitrile.

Ils sont équipés de chaque côté d'un support métallique en acier zingué avec passivation chromique trivalente (RoHS) et aux extrémités d'entretoises en dural protégées oxydation anodique incolore.

La fixation s'effectue aux extrémités à l'aide de vis M5 (non fournies).

Température d'utilisation :
- 20°C à +120°C permanent
- 20°C à +140°C intermittent

This clampblock assembly conforms to PANAVIA standard PAN 4231 for pipes with diameter from .197 to 1.102 in.

Each pipe clamp assembly consists of two symmetrical monoblock clamps moulded in nitrile.

There is a metal rail on both sides made of galvanized plated steel with trivalent chromic passivation (RoHS), there are anodized dural spacers at both ends.

Clampblocks are mounted using dichromated cadmium plated steel M5 screws (not delivered), which are available if ordered separately.

Operating temperature:
- 20°C to +120°C: continuous
- 20°C to +140°C: intermittent



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SYSTÈME DE RÉFÉRENCE
PART NUMBERING SYSTEM

Norme
Standard

Demi-peigne
Half clamp

PAN 4231 *** ** **

Hauteur H
Height H

Entraxe L
Centre to centre L

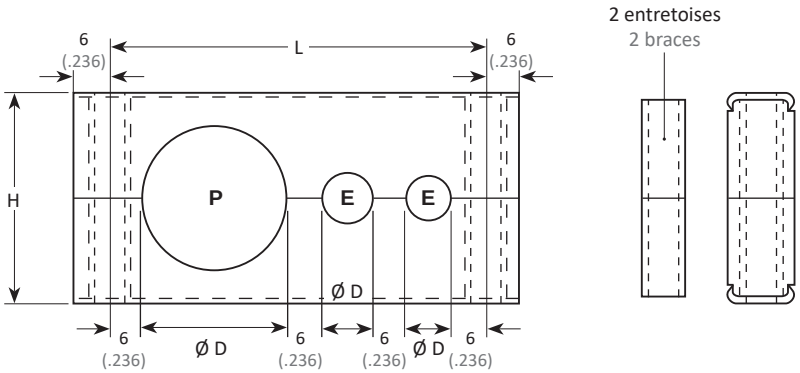
Code des diamètres D (voir tableau ci-dessous)
Diameter codes D (see table below)

Quelques exemples de références :
PAN4231H2727 - PAN4231CCD4420 - PAN4231DBBDE7222

Few examples of part number:
PAN4231H2727 - PAN4231CCD4420 - PAN4231DBBDE7222

PEIGNE SÉRIE PAN 4231

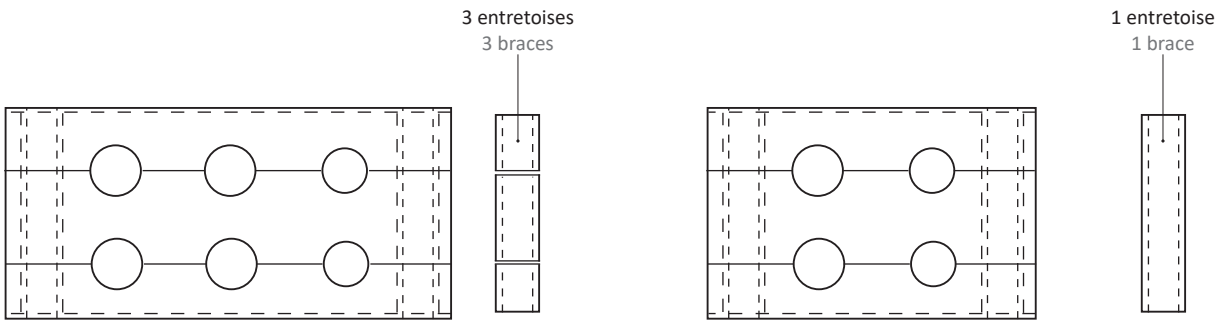
CLAMPBLOCK PAN 4231 SERIES



Ø D D diameter mm (inch)	5 (.197)	6 (.236)	8 (.315)	10 (.394)	12 (.472)	14 (.551)	15 (.59)	16 (.63)	18 (.709)	20 (.787)	22 (.866)	25 (.984)	28 (1.102)
Code	B	C	D	E	F	G	H	J	K	L	M	N	P
H maxi mm (inch)	17 (.669)	18 (.709)	20 (.787)	22 (.866)	24 (.945)	26 (1.024)	27 (1.063)	28 (1.102)	30 (1.181)	32 (1.26)	34 (1.339)	37 (1.457)	40 (1.575)

PEIGNE SUPERPOSÉ

TWO TIER CLAMPBLOCK ASSEMBLY



ÉQUIVALENCE PEIGNES SÉRIE PAN 4231
PIPE CLAMPS PAN 4231 SERIES EQUIVALENCE

Réf PAN PAN P/N	Réf AALB AALB P/N
PAN4231BCC4118	09400000107
PAN4231CC3018	09400000207
PAN4231EE3822	09400000307
PAN4231GHC5927	09400000407
PAN4231CF3624	09400000507
PAN4231EBE4922	09400000607
PAN4231EF4024	09400000707
PAN4231JK5230	09400000807
PAN4231F2424	09400000907
PAN4231J2828	09400001007
PAN4231D2020	09400001107
PAN4231CD3220	09400001207
PAN4231BB2817	09400001307
PAN4231C1818	09400001407
PAN4231E2222	09400001507
PAN4231G2626	09400001607
PAN4231H2727	09400001707
PAN4231BC2918	09400001807
PAN4231M3434	09400001907
PAN4231DE3622	09400002007
PAN4231BBB3917	09400002107
PAN4231P4040	09400002207
PAN4231CEE5022	09400002307STP
PAN4231DEE5222	09400002407STP
PAN4231CBBD5420	09400002507STP
PAN4231CCCD5620	09400002607STP
PAN4231EEF5624	09400002707
PAN4231EDG5626	09400002807
PAN4231JM5634	09400002907
PAN4231BBDE5822	09400003007
PAN4231DEEE6822	09400003107
PAN4231DBBDE7222	09400003207STP
PAN4231K3030	09400003307
PAN4231DD3420	09400003407
PAN4231CE3422	09400003507STP
PAN4231BBC4018	09400003607
PAN4231DG4026	09400003707
PAN4231CJ4028	09400003807

Réf PAN PAN P/N	Réf AALB AALB P/N
PAN4231BBE4422	09400003907
PAN4231CDDC5820	09400004007
PAN4231CMC5834	09400004107
PAN4231GGG6626	09400004207
PAN4231CMG6634	09400004307
PAN4231EDEE6822	09400004407STP
PAN4231BBCDC6620	09400004507
PAN4231B1717	09400004607
PAN4231BBCC5218	09400004707
PAN4231BCBC5218	09400004807
PAN4231CBBC5218	09400004907
PAN4231CBCD5520	09400005007
PAN4231CCD4420	09400005107STP
PAN4231CCDD5820	09400005207
PAN4231CDC4420	09400005307
PAN4231BEE4922	09400005407
PAN4231MM6234	09400005507
PAN4231GH4727	09400005607
PAN4231L3232	09400005707STP
PAN4231HGC5927	09400005807STP
PAN4231BBCCD6620	09400005907STP
PAN4231CCEF6424	09400006007STP
PAN4231EEE5422	09400006107STP
PAN4231CGF5626	09400006207STP
PAN4231CCDC5620	09400006307STP
PAN4231DEDE6622	09400006407STP
PAN4231EEEE7022	09400006507
PAN4231FDE5424	09400006607STP
PAN4231JFG6628	09400006707STP
PAN4231LBM7134	09400006807STP
PAN4231LFG7032	09400006907
PAN4231CBCC5318	09400007207
PAN4231EH4327	09400007307STP
PAN4231CCCDD7020	09400007407
PAN4231DJ4228	09400007507
PAN4231CCC4218	09400007607
PAN4231DCD4620	09400007707

Amphenol Air LB

Your Satisfaction. Everyday. Everywhere.

Thermoplastic clampblocks group ABS2110

Peignes monoblocs thermoplastiques série ABS2110



PIPE CLAMPS

PEIGNES & SUPPORTS DE TUYAUTERIE

Product Catalogue 09/24 - V2.1

PRÉSENTATION
PRESENTATION

Cette version de peignes monoblocs axiale est qualifiée suivant la norme ABS2109 pour des tuyauteries de diamètre 6,35 à 38,1 mm.

Chaque peigne se compose de 2 demi-peignes symétriques monoblocs moulés en thermoplastique naturel ou vert.

La fixation s'effectue à l'aide de vis .1900 32 UNF - 3A (non fournies).

These clampblocks on axis alignment are qualified to ABS2109 for pipes diameter .25 to 1.5 in.

Each assembly is made from two symmetrical monoblock half clamps moulded in a natural or green thermoplastic material.

They can be mounted using a .1900 32 UNF-3A screw (to be ordered separately).



LÉGENDE

1 - Peigne côté structure
2 - Peigne côté couvercle
3 - Vis de fixation (non fournie)
4 - Trou de fixation

CAPTION

1 - Structure side clamp
2 - Cover side clamp
3 - Mounting screw (not supplied)
4 - Mounting hole

CARACTÉRISTIQUES TECHNIQUES
TECHNICAL DATA

MATIÈRE

Matière :	Thermoplastique type PA66 (naturel ou vert RAL 6029)

TEMPÉRATURE

Température d'utilisation :	-55°C à +135°C

COUPLE DE SERRAGE

Fixation par vis :	.1900-32UNJF-3A (non fournies)
Couple de serrage :	2,1 Nm ±10%

MATERIAL

Material:	Thermoplastic type PA66 (natural or green RAL 6029)

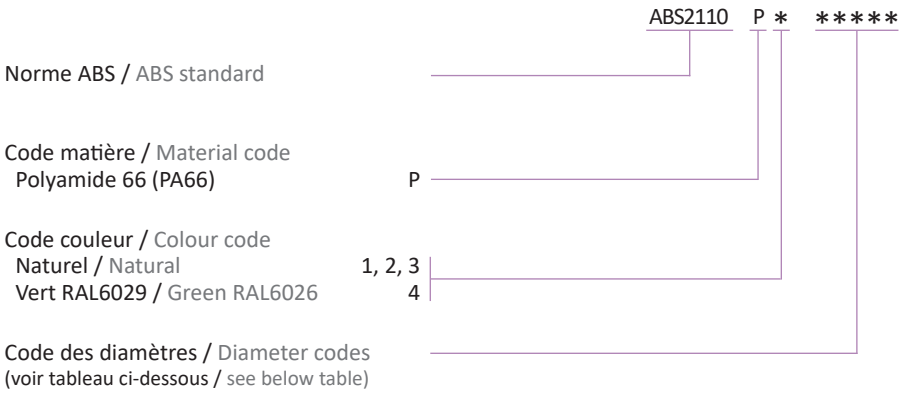
TEMPERATURE

Operating temperature:	-55°C to + 135°C

TORQUE VALUE

Fixing with screw/ Tightening torque:	.1900-32UNJF-3A (not supplied) 2,1 Nm ±10%

SYSTÈME DE RÉFÉRENCE
PART NUMBERING SYSTEM



Il conviendra toujours de commencer par la plus petite taille de tuyau, telle que la configuration DEFE et non pas EFED.

Quelques exemples de références :
ABS2110P1H - ABS2110P4FG - ABS2110P2DDEE

Deux demi-peignes sont nécessaires pour chaque assemblage.
Une référence contient les deux demi-peignes.

Always start with the code of the smallest pipe of the configuration e.g. DEFE and not EFED.

Few examples of part number :
ABS2110P1H - ABS2110P4FG - ABS2110P2DDEE

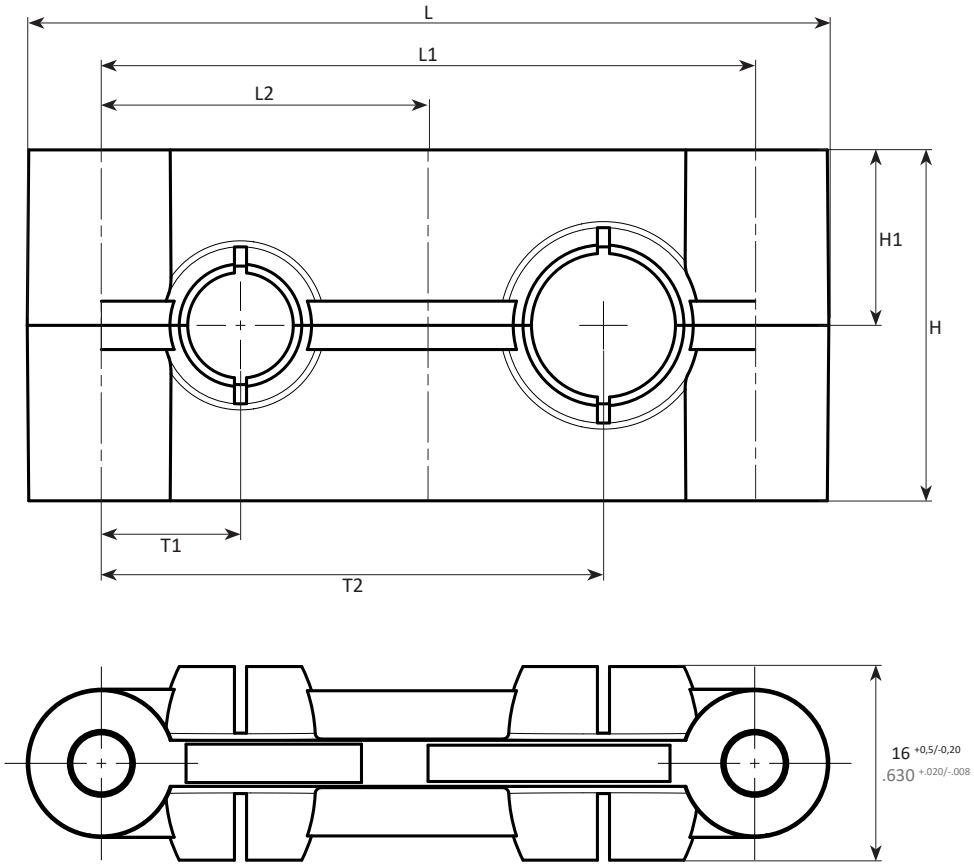
Two halves clampblocks are required for each assembly.
One part number contains both halves clampblocks.

CODE DES DIAMÈTRES

DIAMETER CODE

PEIGNES / CLAMPBLOCKS									
Code diamètre Diameter code		B	D	E	F	G	H	J	K
Dash		04	06	08	10	12	16	20	24
Ø de tuyauterie Pipe Ø	mm	6,35	9,53	12,70	15,88	19,05	25,40	31,75	38,10
	inch	.250	.375	.500	.625	.750	1.000	1.250	1.500

PEIGNES SÉRIE ABS2110
CLAMPBLOCKS ABS2110 SERIES



1 TUBE

1 HOLE CLAMPBLOCK

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Couleur Colour		Dash	H	H1	L	L1	T1	Masse Weight g ± 10%
		Naturel Natural	Vert Green		mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	
ABS2110P4F	3505 8098 000 STM		x	10	38 1.496	19 .748	49 1.929	37 1.457	18,5 .728	12,80
ABS2110P4B	3505 8100 000 STM		x	04	29 1.142	14,5 .571	39 1.535	27 1.063	13,5 .531	8,80
ABS2110P1G	3505 8101 000 STM	x		12	38 1.496	19 .748	48 1.890	36 1.417	18 .709	12,10
ABS2110P1D	3505 8102 000 STM	x		06	29 1.142	14,5 .571	35 1.378	23 .905	11,5 .453	7,90
ABS2110P1E	3505 8103 000 STM	x		08	29 1.142	14,5 .571	37 1.457	25 .984	12,5 .492	8,00
ABS2110P1F	3505 8104 000 STM	x		10	38 1.496	19 .748	41 1.614	29 1.142	14,5 .571	11,00
ABS2110P1K	3505 8105 000 STM	x		24	57 2.244	28 1.102	70 2.756	58 2.283	29 1.142	21,30
ABS2110P4E	3505 8106 000 STM		x	08	29 1.142	14,5 .571	45 1.772	33 1.299	16,5 .650	9,40
ABS2110P1B	3505 8107 000 STM	x		04	29 1.142	14,5 .571	31 1.220	19 .748	9,5 .374	7,30
ABS2110P1J	3505 8108 000 STM	x		20	50 1.969	25 .984	64 2.520	52 2.047	26 1.024	18,20
ABS2110P1H	3505 8109 000 STM	x		16	46 1.811	23 .906	54 2.126	42 1.654	21 .827	15,30

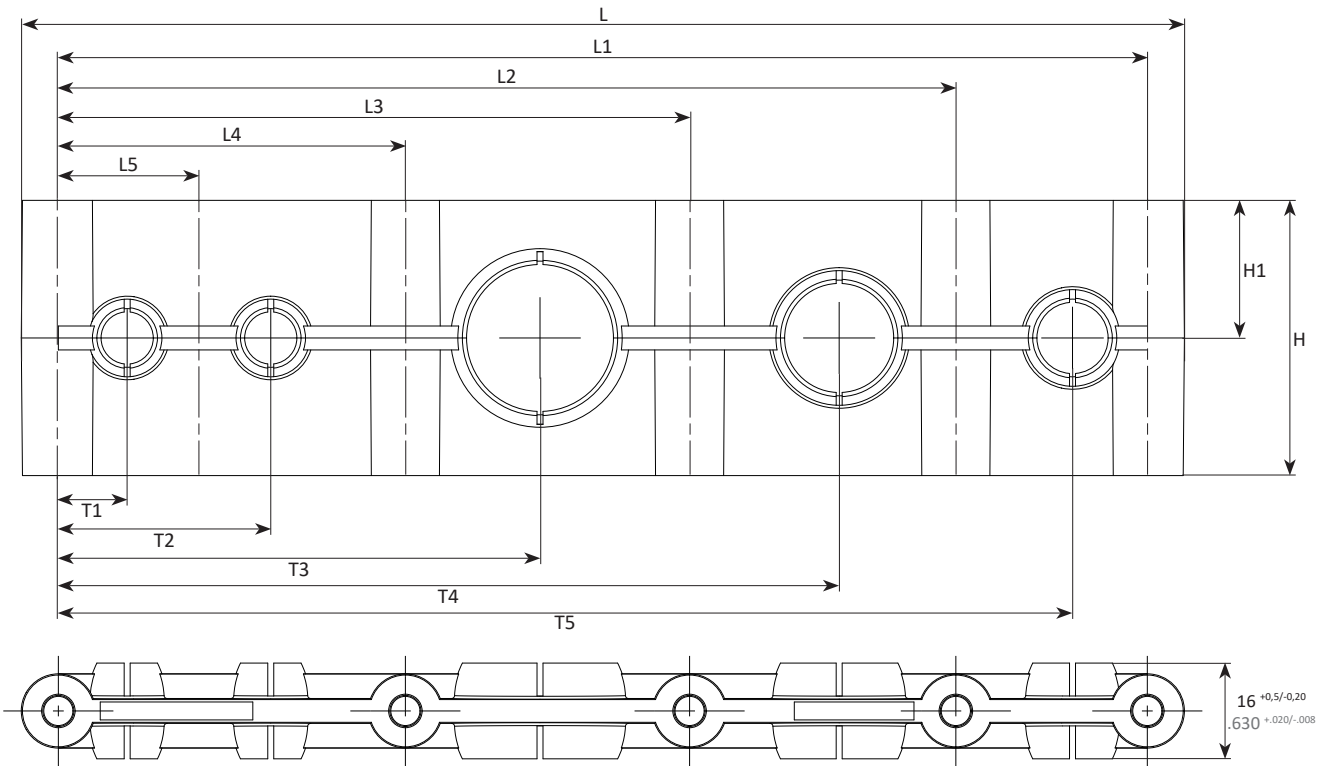
* Tolérances générales selon la norme ISO2768-1, tolérance classe m.

* General tolerances according to ISO2768-1, tolerance class m.

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Couleur Colour		Dash		H	H1	L	L1	L2	T1	T2	Masse Weight
		Naturel Natural	Vert Green			mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	g ± 10%
ABS2110P2DE	3505 8201 000 STM	x		06	08	29 1.142	14,5 .571	66 2.598	54 2.126	-	11,5 .453	41,5 1.634	12,40
ABS2110P2DD	3505 8202 000 STM	x		06	06	29 1.142	14,5 .571	59 2.323	47 1.850	-	11,5 .453	35,5 1.398	11,60
ABS2110P2EE	3505 8203 000 STM	x		08	08	29 1.142	14,5 .571	69 2.717	57 2.244	-	12,5 .492	44,5 1.752	12,90
ABS2110P1EF	3505 8204 000 STM	x		08	10	38 1.496	19 .748	66 2.598	54 2.126	-	12,5 .492	39,5 1.555	15,80
ABS2110P4EE	3505 8205 000 STM		x	08	08	29 1.142	14,5 .571	77 3.032	65 2.559	-	16,5 .650	48,5 1.909	14,30
ABS2110P2EF	3505 8206 000 STM	x		08	10	38 1.496	19 .748	72 2.835	60 2.362	-	12,5 .492	45,5 1.791	17,00
ABS2110P1BB	3505 8207 000 STM	x		04	04	29 1.142	14,5 .571	50 1.969	38 1.496	-	9,5 .374	28,5 1.122	10,40
ABS2110P1FF	3505 8208 000 STM	x		10	10	38 1.496	19 .748	70 2.756	58 2.283	-	14,5 .571	43,5 1.713	16,40
ABS2110P4FG	3505 8209 000 STM		x	10	12	38 1.496	19 .748	92,5 3.642	80,5 3.169	38,5 1.516	18,5 .728	58,5 2.303	22,40
ABS2110P2BD	3505 8210 000 STM	x		04	06	29 1.142	14,5 .571	56 2.205	44 1.732	-	9,5 .374	32,5 1.280	11,30
ABS2110P1BF	3505 8211 000 STM	x		04	10	38 1.496	19 .748	60 2.362	48 1.890	-	9,5 .374	33,5 1.319	14,90
ABS2110P2GG	3505 8212 000 STM	x		12	12	38 1.496	19 .748	90 3.543	78 3.071	39 1.535	18 .709	60 2.362	21,50
ABS2110P2FG	3505 8213 000 STM	x		10	12	38 1.496	19 .748	84,5 3.327	72,5 2.854	34,5 1.358	14,5 .571	54,5 2.146	20,70
ABS2110P2DF	3505 8214 000 STM	x		06	10	38 1.496	19 .748	69 2.717	57 2.244	-	11,5 .453	42,5 1.673	16,60
ABS2110P1BD	3505 8215 000 STM	x		04	06	29 1.142	14,5 .571	54 2.126	42 1.654	-	9,5 .374	30,5 1.201	10,90
ABS2110P1BH	3505 8216 000 STM	x		04	16	46 1.811	23 .906	73 2.874	61 2.402	19 .748	9,5 .374	40 1.575	22,00
ABS2110P1DH	3505 8217 000 STM	x		06	16	46 1.811	23 .906	77 3.032	65 2.559	23 .906	11,5 .453	44 1.732	22,80
ABS2110P2BB	3505 8218 000 STM	x		04	04	29 1.142	14,5 .571	51 2.008	39 1.535	-	9,5 .374	29,5 1.161	10,50
ABS2110P2DG	3505 8219 000 STM	x		06	12	38 1.496	19 .748	78,5 3.091	66,5 2.618	30 1.181	11,5 .453	48,5 1.909	19,90
ABS2110P4EF	3505 8220 000 STM		x	08	10	38 1.496	19 .748	80 3.150	68 2.677	-	16,5 .650	49,5 1.949	18,70
ABS2110P2HH	3505 8221 000 STM	x		16	16	46 1.811	23 .906	106 4.173	94 3.701	47 1.850	21 .827	73 2.874	28,20
ABS2110P2EG	3505 8222 000 STM	x		08	12	38 1.496	19 .748	81,5 3.209	69,5 2.736	32 1.260	12,5 .492	51,5 2.028	20,40
ABS2110P1DG	3505 8223 000 STM	x		06	12	38 1.496	19 .748	71 2.795	59 2.323	-	11,5 .453	41 1.614	16,70
ABS2110P1DF	3505 8224 000 STM	x		06	10	38 1.496	19 .748	64 2.520	52 2.047	-	11,5 .453	37,5 1.476	15,60
ABS2110P2BE	3505 8225 000 STM	x		04	08	29 1.142	14,5 .571	63 2.480	51 2.008	-	9,5 .374	38,5 1.516	12,20
ABS2110P2GJ	3505 8226 000 STM	x		12	20	50 1.969	25 .984	111 4.370	99 3.898	45,5 1.791	18 .709	73 2.874	31,80
ABS2110P1EE	3505 8227 000 STM	x		08	08	29 1.142	14,5 .571	62 2.441	50 1.969	-	12,5 .492	37,5 1.476	11,70
ABS2110P1DE	3505 8228 000 STM	x		06	08	29 1.142	14,5 .571	60 2.362	48 1.890	-	11,5 .453	35,5 1.398	11,70
ABS2110P1BE	3505 8229 000 STM	x		04	08	29 1.142	14,5 .571	56 2.205	44 1.732	-	9,5 .374	31,5 1.240	11,00
ABS2110P1DD	3505 8230 000 STM	x		06	06	29 1.142	14,5 .571	58 2.283	46 1.811	-	11,5 .453	34,5 1.358	11,50
ABS2110P1GG	3505 8231 000 STM	x		12	12	38 1.496	19 .748	84 3.307	72 2.835	-	18 .709	54 2.126	18,60
ABS2110P2BF	3505 8232 000 STM	x		04	10	38 1.496	19 .748	66 2.598	54 2.126	-	9,5 .374	39,5 1.555	16,10
ABS2110P2FF	3505 8233 000 STM	x		10	10	38 1.496	19 .748	76 2.992	64 2.520	-	14,5 .571	49,5 1.949	17,60
ABS2110P2GH	3505 8234 000 STM	x		12	16	46 1.811	23 .906	101 3.976	89 3.504	43 1.693	18 .709	68 2.677	27,90
ABS2110P4DE	3505 8235 000 STM		x	06	08	29 1.142	14,5 .571	74 2.913	62 2.441	-	15,5 .610	45,5 1.791	14,00
ABS2110P1HJ	3505 8236 000 STM	x		16	20	50 1.969	25 .984	106 4.173	94 3.701	42 1.654	21 .827	68 2.677	29,60
ABS2110P2HJ	3505 8237 000 STM	x		16	20	50 1.969	25 .984	117 4.606	105 4.134	50 1.969	21 .827	79 3.110	32,60
ABS2110P1BG	3505 8238 000 STM	x		04	12	38 1.496	19 .748	67 2.638	55 2.165	-	9,5 .374	37 1.457	16,00
ABS2110P1EG	3505 8239 000 STM	x		08	12	38 1.496	19 .748	73 2.874	61 2.402	-	12,5 .492	43 1.693	17,00
ABS2110P1FG	3505 8240 000 STM	x		10	12	38 1.496	19 .748	77 3.032	65 2.559	-	14,5 .571	47 1.850	17,60
ABS2110P2BG	3505 8241 000 STM	x		04	12	38 1.496	19 .748	75,5 2.972	63,5 2.500	27,5 1.083	9,5 .374	45,5 1.791	19,40
ABS2110P2FH	3505 8242 000 STM	x		10	16	46 1.811	23 .906	96,5 3.799	84,5 3.327	39 1.535	14,5 .571	63,5 2.500	27,20
ABS2110P2DH	3505 8243 000 STM	x		06	16	46 1.811	23 .906	89,5 3.524	77,5 3.051	34 1.339	11,5 .453	56,5 2.224	26,00

* Tolérances générales selon la norme ISO2768-1, tolérance classe m.

* General tolerances according to ISO2768-1, tolerance class m.



3 TUBES

3 HOLES CLAMPBLOCK

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Couleur Colour		Dash	H	H1	L	L1	L4	L5	T1	T2	T3	Masse Weight
		Naturel Natural	Vert Green		mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	g
ABS2110P1BEF	3505 8301 000 STM	x		04 08 10	38 1.496	19 .748	85 3.346	73 2.874	-	-	9,5 .374	31,5 1.240	58,5 2.303	19,60
ABS2110P2BFF	3505 8302 000 STM	x		04 10 10	38 1.496	19 .748	101 3.976	89 3.504	-	-	9,5 .374	39,5 1.555	74,5 2.933	22,70
ABS2110P2DDD	3505 8303 000 STM	x		06 06 06	29 1.142	14,5 .571	83 3.268	71 2.795	-	-	11,5 .453	35,5 1.398	59,5 2.343	15,40
ABS2110P2DDF	3505 8304 000 STM	x		06 06 10	38 1.496	19 .748	93 3.661	81 3.189	-	-	11,5 .453	35,5 1.398	66,5 2.618	21,40
ABS2110P1BFF	3505 8305 000 STM	x		04 10 10	38 1.496	19 .748	89 3.504	77 3.032	-	-	9,5 .374	33,5 1.319	62,5 2.461	20,20
ABS2110P2BFB	3505 8306 000 STM	x		04 10 04	38 1.496	19 .748	91 3.583	79 3.110	-	-	9,5 .374	39,5 1.555	69,5 2.736	21,20
ABS2110P2BBB	3505 8307 000 STM	x		04 04 04	29 1.142	14,5 .571	71 2.795	59 2.323	-	-	9,5 .374	29,5 1.161	49,5 1.949	13,80
ABS2110P2EDG	3505 8308 000 STM	x		08 06 12	38 1.496	19 .748	109,5 4.311	97,5 3.839	61 2.402	-	12,5 .492	42,5 1.673	79,5 3.130	26,00
ABS2110P2GEG	3505 8309 000 STM	x		12 08 12	38 1.496	19 .748	126 4.961	114 4.488	76,5 3.012	37,5 1.476	18 .709	57 2.244	96 3.780	30,30
ABS2110P1DBH	3505 8310 000 STM	x		06 04 16	46 1.811	23 .906	96 3.780	84 3.307	42 1.654	-	11,5 .453	32,5 1.280	63 2.480	27,40
ABS2110P1DGD	3505 8311 000 STM	x		06 12 06	38 1.496	19 .748	94 3.701	82 3.228	-	-	11,5 .453	41 1.614	70,5 2.776	21,20
ABS2110P1DGG	3505 8312 000 STM	x		06 12 12	38 1.496	19 .748	107 4.213	95 3.740	-	-	11,5 .453	41 1.614	77 3.032	23,20
ABS2110P2BBH	3505 8313 000 STM	x		04 04 16	46 1.811	23 .906	105,5 4.154	93,5 3.681	51 2.008	-	9,5 .374	29,5 1.161	72,5 2.854	29,90
ABS2110P2BDF	3505 8314 000 STM	x		04 06 10	38 1.496	19 .748	90 3.543	78 3.071	-	-	9,5 .374	32,5 1.260	63,5 2.500	20,90
ABS2110P2DGF	3505 8315 000 STM	x		06 12 10	38 1.496	19 .748	115 4.528	103 4.055	68,5 2.697	30 1.181	11,5 .453	48,5 1.909	88,5 3.484	28,50
ABS2110P2DGG	3505 8316 000 STM	x		06 12 12	38 1.496	19 .748	120,5 4.744	108,5 4.272	69,5 2.736	30 1.181	11,5 .453	48,5 1.909	90,5 3.563	29,30
ABS2110P2FGG	3505 8317 000 STM	x		10 12 12	38 1.496	19 .748	126,5 4.980	114,5 4.508	75,5 2.972	34,5 1.358	14,5 .571	54,5 2.146	96,5 3.799	30,00
ABS2110P2GEH	3505 8318 000 STM	x		12 08 16	46 1.811	23 .906	136 5.354	124 4.882	80 3.150	37,5 1.476	18 .709	57 2.244	103 4.055	38,10
ABS2110P1EGE	3505 8319 000 STM	x		08 12 08	38 1.496	19 .748	98 3.858	86 3.386	-	-	12,5 .492	43 1.693	73,5 2.874	21,60
ABS2110P1BFD	3505 8320 000 STM	x		04 10 06	38 1.496	19 .748	83 3.268	71 2.795	-	-	9,5 .374	33,5 1.319	59,5 2.343	19,40
ABS2110P1DBE	3505 8321 000 STM	x		06 04 08	29 1.142	14,5 .571	79 3.110	67 2.638	-	-	11,5 .453	32,5 1.260	54,5 2.146	14,60
ABS2110P1DDD	3505 8322 000 STM	x		06 06 06	29 1.142	14,5 .571	81 3.189	69 2.717	-	-	11,5 .453	34,5 1.358	57,5 2.264	15,00
ABS2110P1DDE	3505 8323 000 STM	x		06 06 08	29 1.142	14,5 .571	83 3.268	71 2.795	-	-	11,5 .453	34,5 1.358	58,5 2.303	15,20

* Tolérances générales selon la norme ISO2768-1, tolérance classe m.

* General tolerances according to ISO2768-1, tolerance class m.

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Couleur Colour		Dash			H	H1	L	L1	L4	L5	T1	T2	T3	Masse Weight
		Naturel Natural	Vert Green				mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	g
ABS2110P1EEG	3505 8324 000 STM	x		08	08	12	38 1.496	19 .748	98 3.858	86 3.386	-	-	12,5 .492	37,5 1.476	68 2.677	21,60
ABS2110P1FGG	3505 8325 000 STM	x		10	12	12	38 1.496	19 1.496	113 4.449	101 3.976	-	-	14,5 .571	47 1.850	83 3.268	23,70
ABS2110P1FHF	3505 8326 000 STM	x		10	16	10	46 1.811	23 .906	112 4.409	100 3.937	71 2.795	29 1.142	14,5 .571	50 1.969	85,5 3.366	32,20
ABS2110P1GEG	3505 8327 000 STM	x		12	08	12	38 1.496	19 1.496	109 4.291	97 3.819	-	-	18 .709	48,5 1.909	79 3.110	23,40
ABS2110P1GGG	3505 8328 000 STM	x		12	12	12	38 1.496	19 1.496	120 4.724	108 4.252	-	-	18 .709	54 2.126	90 3.543	25,00
ABS2110P2BBF	3505 8329 000 STM	x		04	04	10	38 1.496	19 1.496	86 3.386	74 2.913	-	-	9,5 .374	29,5 1.161	59,5 2.343	20,20
ABS2110P2BBG	3505 8330 000 STM	x		04	04	12	38 1.496	19 1.496	95,5 3.760	83,5 3.287	47,5 1.870	-	9,5 .374	29,5 1.161	65,5 2.579	24,00
ABS2110P2BDD	3505 8331 000 STM	x		04	06	06	29 1.142	14,5 .571	80 3.150	68 2.677	-	-	9,5 .374	32,5 1.280	56,5 2.224	15,00
ABS2110P2BEB	3505 8332 000 STM	x		04	08	04	29 1.142	14,5 .571	89 3.504	77 3.032	-	-	9,5 .374	38,5 1.516	67,5 2.657	16,40
ABS2110P2BED	3505 8333 000 STM	x		04	08	06	29 1.142	14,5 .571	92 3.622	80 3.150	-	-	9,5 .374	38,5 1.516	68,5 2.697	16,80
ABS2110P2BGD	3505 8334 000 STM	x		04	12	06	38 1.496	19 1.496	106 4.173	94 3.701	64 2.520	27,5 1.083	9,5 .374	45,5 1.791	82,5 3.248	27,20
ABS2110P2BGF	3505 8335 000 STM	x		04	12	10	38 1.496	19 1.496	112 4.409	100 3.937	65,5 2.579	27,5 1.083	9,5 .374	45,5 1.791	85,5 3.366	28,00
ABS2110P2BGG	3505 8336 000 STM	x		04	12	12	38 1.496	19 1.496	117,5 4.626	105,5 4.154	66,5 2.618	27,5 1.083	9,5 .374	45,5 1.791	87,5 3.445	28,80
ABS2110P2EHF	3505 8337 000 STM	x		08	16	10	46 1.811	23 .906	134 5.276	122 4.803	83 3.268	35,5 1.398	12,5 .492	58,5 2.303	107,5 4.232	38,00
ABS2110P2FEG	3505 8338 000 STM	x		10	08	12	38 1.496	19 1.496	116,5 4.587	104,5 4.114	67 2.638	-	14,5 .571	47,5 1.870	86,5 3.406	27,00
ABS2110P2HGH	3505 8339 000 STM	x		16	12	16	46 1.811	23 .906	154 6.063	142 5.591	96 3.780	46 1.811	21 .827	71 2.795	121 4.764	41,00
ABS2110P3BDF	3505 8340 000 STM	x		04	06	10	34,6 1.362	17,3 .681	67 2.638	55 2.165	-	-	9,5 .374	22,5 .886	40,5 1.594	14,70
ABS2110P1BBH	3505 8341 000 STM	x		04	04	16	46 1.811	23 .906	92 3.622	80 3.150	38 1.496	-	9,5 .374	28,5 1.122	59 2.323	26,60
ABS2110P2BHH	3505 8342 000 STM	x		04	16	16	46 1.811	23 .906	137,5 5.413	125,5 4.941	78,5 3.091	31 1.220	9,5 .374	52,5 2.067	104,5 4.114	38,00
ABS2110P2DFE	3505 8343 000 STM	x		06	10	08	38 1.496	19 1.496	100 3.937	88 3.465	-	-	11,5 .453	42,5 1.673	75,5 2.972	22,80
ABS2110P1DHH	3505 8344 000 STM	x		06	16	16	46 1.811	23 .906	119 4.685	107 4.213	65 2.559	23 .906	11,5 .453	44 1.732	86 3.386	33,40
ABS2110P2DHH	3505 8345 000 STM	x		06	16	16	46 1.811	23 .906	141,5 5.571	129,5 5.098	82,5 3.248	34 1.339	11,5 .453	56,5 2.224	108,5 4.272	38,80
ABS2110P1FHH	3505 8346 000 STM	x		10	16	16	46 1.811	23 .906	125 4.921	113 4.449	71 2.795	29 1.142	14,5 .571	50 1.969	92 3.622	34,20
ABS2110P2GEJ	3505 8347 000 STM	x		12	08	20	50 1.969	25 .984	147 5.787	135 5.315	83 3.268	37,5 1.476	18 .709	57 2.244	109 4.291	43,40
ABS2110P1BED	3505 8348 000 STM	x		04	08	06	29 1.142	14,5 .571	79 3.110	67 2.638	-	-	9,5 .374	31,5 1.240	55,5 2.185	14,80
ABS2110P1BFG	3505 8349 000 STM	x		04	10	12	38 1.496	19 1.496	96 3.780	84 3.307	-	-	9,5 .374	33,5 1.319	66 2.598	21,40
ABS2110P1BGG	3505 8350 000 STM	x		04	12	12	38 1.496	19 1.496	103 4.055	91 3.583	-	-	9,5 .374	37 1.457	73 2.874	22,50
ABS2110P1DGE	3505 8351 000 STM	x		06	12	08	38 1.496	19 1.496	96 3.780	84 3.307	-	-	11,5 .453	41 1.614	71,5 2.815	21,40
ABS2110P2BFE	3505 8352 000 STM	x		04	10	08	38 1.496	19 1.496	97 3.819	85 3.346	-	-	9,5 .374	39,5 1.555	72,5 2.854	22,20
ABS2110P2DDE	3505 8353 000 STM	x		06	06	08	29 1.142	14,5 .571	90 3.543	78 3.071	-	-	11,5 .453	35,5 1.398	65,5 2.579	16,40
ABS2110P2DDH	3505 8354 000 STM	x		06	06	16	46 1.811	23 .906	113,5 4.469	101,5 3.996	58 2.283	-	11,5 .453	35,5 1.398	80,5 3.169	31,60
ABS2110P2DEE	3505 8355 000 STM	x		06	08	08	29 1.142	14,5 .571	98 3.858	86 3.386	-	-	11,5 .453	41,5 1.634	73,5 2.894	17,60
ABS2110P2EGE	3505 8356 000 STM	x		08	12	08	38 1.496	19 1.496	115 4.528	103 4.055	71 2.795	32 1.260	12,5 .492	51,5 2.028	90,5 3.563	28,60
ABS2110P2EGH	3505 8357 000 STM	x		08	12	16	46 1.811	23 .906	134,5 5.295	122,5 4.823	76,5 3.012	32 1.260	12,5 .492	51,5 2.028	101,5 3.996	37,80
ABS2110P1DED	3505 8358 000 STM	x		06	08	06	29 1.142	14,5 .571	83 3.268	71 2.795	-	-	11,5 .453	35,5 1.398	59,5 2.343	15,20
ABS2110P1DFE	3505 8359 000 STM	x		06	10	08	38 1.496	19 1.496	89 3.504	77 3.032	-	-	11,5 .453	37,5 1.476	64,5 2.539	20,40
ABS2110P1FEF	3505 8360 000 STM	x		10	08	10	38 1.496	19 1.496	95 3.740	83 3.268	-	-	14,5 .571	41,5 1.634	68,5 2.697	21,20
ABS2110P4DGF	3505 8362 000 STM		x	06	12	10	38 1.496	19 1.496	123 4.843	111 4.370	72,5 2.854	34 1.339	15,5 .610	52,5 2.067	92,5 3.642	30,40
ABS2110P1BFE	3505 8363 000 STM	x		04	10	08	38 1.496	19 1.496	85 3.346	73 2.874	-	-	9,5 .374	33,5 1.319	60,5 2.382	19,80

* Tolérances générales selon la norme ISO2768-1, tolérance classe m.

* General tolerances according to ISO2768-1, tolerance class m.

4 TUBES

4 HOLES CLAMPBLOCK

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Couleur Colour Naturel Natural	Dash	H mm (inch)	H1 mm (inch)	L mm (inch)	L1 mm (inch)	L3 mm (inch)	L4 mm (inch)	L5 mm (inch)	T1 mm (inch)	T2 mm (inch)	T3 mm (inch)	T4 mm (inch)	Masse Weight g
ABS2110P1BEDD	3505 8401 000 STM	x	04 08 06 06	29 1.142	14,5 .571	102 4.016	90 3.543	-	-	-	9,5 .374	31,5 1.240	55,5 2.185	78,5 3.091	18,20
ABS2110P1DBDG	3505 8402 000 STM	x	06 04 06 12	38 1.496	19 .748	113 4.449	101 3.976	-	-	-	11,5 .453	32,5 1.280	53,5 2.106	83 3.268	25,10
ABS2110P1DDDD	3505 8403 000 STM	x	06 06 06 06	29 1.142	14,5 .571	104 4.094	92 3.622	-	-	-	11,5 .453	34,5 1.358	57,5 2.264	80,5 3.169	18,70
ABS2110P2BBEF	3505 8404 000 STM	x	04 04 08 10	38 1.496	19 .748	118 4.646	106 4.173	-	-	-	9,5 .374	29,5 1.161	58,5 2.303	91,5 3.602	26,40
ABS2110P2BBGG	3505 8405 000 STM	x	04 04 12 12	38 1.496	19 .748	137,5 5.413	125,5 4.941	86,5 3.406	47,5 1.870	-	9,5 .374	29,5 1.161	65,5 2.579	107,5 4.232	33,00
ABS2110P2BGDD	3505 8406 000 STM	x	04 12 06 06	38 1.496	19 .748	130 5.118	118 4.646	-	64 2.520	27,5 1.083	9,5 .374	45,5 1.791	82,5 3.248	106,5 4.193	32,00
ABS2110P2DDGE	3505 8407 000 STM	x	06 06 12 08	38 1.496	19 .748	136 5.354	124 4.882	92,5 3.642	54 2.126	-	11,5 .453	35,5 1.398	72,5 2.854	111,5 4.390	33,00
ABS2110P1DFEF	3505 8408 000 STM	x	06 10 08 10	38 1.496	19 .748	118 4.646	106 4.173	-	-	-	11,5 .453	37,5 1.476	64,5 2.539	91,5 3.602	25,60
ABS2110P1EDGG	3505 8409 000 STM	x	08 06 12 12	38 1.496	19 .748	132 5.197	120 4.724	-	48 1.890	-	12,5 .492	36,5 1.437	66 2.598	102 4.016	29,60
ABS2110P2BBGF	3505 8410 000 STM	x	04 04 12 10	38 1.496	19 .748	132 5.197	120 4.724	85,5 3.366	47,5 1.870	-	9,5 .374	29,5 1.161	65,5 2.579	105,5 4.154	32,10
ABS2110P2DDBE	3505 8411 000 STM	x	06 06 04 08	29 1.142	14,5 .571	112 4.409	100 3.937	-	-	-	11,5 .453	35,5 1.398	58,5 2.303	87,5 3.445	20,00
ABS2110P2DDEE	3505 8412 000 STM	x	06 06 08 08	29 1.142	14,5 .571	122 4.803	110 4.331	-	50,5 1.988	-	11,5 .453	35,5 1.398	65,5 2.579	97,5 3.839	22,50
ABS2110P2DDHG	3505 8413 000 STM	x	06 06 16 12	46 1.811	23 .906	160,5 6.319	148,5 5.846	105,5 4.154	58 2.283	-	11,5 .453	35,5 1.398	80,5 3.169	130,5 5.138	44,20
ABS2110P2DHGE	3505 8414 000 STM	x	06 16 12 08	46 1.811	23 .906	170 6.693	158 6.220	126 4.961	81,5 3.209	34 1.339	11,5 .453	56,5 2.224	106,5 4.193	145,5 5.728	48,50
ABS2110P2BBHH	3505 8415 000 STM	x	04 04 16 16	46 1.811	23 .906	157,5 6.201	145,5 5.728	98,5 3.878	51 2.009	-	9,5 .374	29,5 1.161	72,5 2.854	124,5 4.901	42,80
ABS2110P2DFEF	3505 8416 000 STM	x	06 10 08 10	38 1.496	19 .748	135 5.315	123 4.843	-	59 2.323	-	11,5 .453	42,5 1.673	75,5 2.972	108,5 4.272	31,00
ABS2110P1DHGE	3505 8417 000 STM	x	06 16 12 08	46 1.811	23 .906	138 5.433	126 4.961	-	65 2.559	23 .906	11,5 .453	44 1.732	83 3.268	113,5 4.449	38,60
ABS2110P2DDEF	3505 8418 000 STM	x	06 06 08 10	38 1.496	19 .748	125 4.921	113 4.449	82 3.228	-	-	11,5 .453	35,5 1.398	65,5 2.579	98,5 3.878	29,20
ABS2110P1BFHF	3505 8419 000 STM	x	04 10 16 10	46 1.811	23 .906	131 5.157	119 4.685	90 3.543	48 1.890	-	9,5 .374	33,5 1.319	69 2.717	104,5 4.114	37,00
ABS2110P1DDEF	3505 8420 000 STM	x	06 06 08 10	38 1.496	19 .748	112 4.409	100 3.937	-	-	-	11,5 .453	34,5 1.358	58,5 2.303	85,5 3.366	25,00
ABS2110P2EEFE	3505 8421 000 STM	x	08 08 10 08	38 1.496	19 .748	135 5.315	123 4.843	-	61 2.402	-	12,5 .492	44,5 1.752	77,5 3.052	110,5 4.350	31,00

* Tolérances générales selon la norme ISO2768-1, tolérance classe m.

* General tolerances according to ISO2768-1, tolerance class m.

5 TUBES

5 HOLES CLAMPBLOCK

Référence AIRBUS AIRBUS part number	Référence AALB AALB part number	Couleur Colour Naturel Natural	Dash	H mm (inch)	H1 mm (inch)	L mm (inch)	L1 mm (inch)	L2 mm (inch)	L3 mm (inch)	L4 mm (inch)	L5 mm (inch)	T1 mm (inch)	T2 mm (inch)	T3 mm (inch)	T4 mm (inch)	T5 mm (inch)	Masse Weight g
ABS2110P1BDFEF	3505 8501 000 STM	x	04 06 10 08 10	38 1.496	19 .748	137 5.394	125 4.921	-	71 2.795	-	-	9,5 .374	30,5 1.201	56,5 2.224	83,5 3.287	110,5 4.350	31,20
ABS2110P2BEEDD	3505 8502 000 STM	x	04 08 08 06 06	29 1.142	14,5 .571	148 5.827	136 5.354	-	84,5 3.327	-	-	9,5 .374	38,5 1.516	70,5 2.776	100,5 3.957	124,5 4.902	26,70
ABS2110P2DDDEE	3505 8503 000 STM	x	06 06 06 08 08	29 1.142	14,5 .571	146 5.748	134 5.276	-	74,5 2.933	-	-	11,5 .453	35,5 1.398	59,5 2.343	89,5 3.524	121,5 4.783	26,20
ABS2110P2EBGGF	3505 8504 000 STM	x	08 04 12 12 10	38 1.496	19 .748	186 7.323	174 6.850	139,5 5.492	98,5 3.878	59,5 2.343	-	12,5 .492	41,5 1.634	77,5 3.051	119,5 4.705	159,5 6.280	43,60
ABS2110P3DDDDD	3505 8505 000 STM	x	06 06 06 06 06	26,8 1.055	13,4 .528	95 3.740	83 3.268	-	-	-	-	11,5 .453	26,5 1.043	41,5 1.634	56,5 2.224	71,5 2.815	15,70
ABS2110P2DDHGE	3505 8506 000 STM	x	06 06 16 12 08	46 1.811	23 .906	194 7.638	182 7.165	150 5.906	105,5 4.154	58 2.283	-	11,5 .453	35,5 1.398	80,5 3.169	130,5 5.138	169,5 6.654	54,20

* Tolérances générales selon la norme ISO2768-1, tolérance classe m.

* General tolerances according to ISO2768-1, tolerance class m.

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Thermoplastic clampblocks group JN0413

Peignes monoblocs thermoplastiques série JN0413



PIPE CLAMPS

PEIGNES & SUPPORTS DE TUYAUTERIE

Product Catalogue 09/24 - V2.1

PRÉSENTATION
PRESENTATION

Cette version de peignes monoblocs axiale à coulissement est qualifiée suivant la norme JN0413 pour des tuyauteries de diamètres 6 à 28 mm.

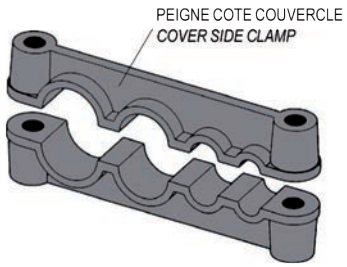
Chaque peigne se compose de 2 demi-peignes symétriques monoblocs moulés en thermoplastique.

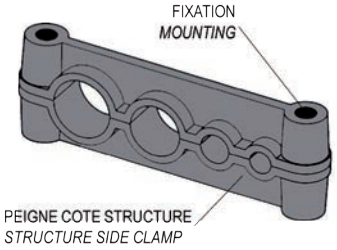
La fixation s'effectue aux extrémités, à l'aide de vis M5 (non fournies).

These clampblocks on axis alignment with sliding are qualified to JN0413 for pipes diameter .236 to 1.102 in.

Each assembly is made from two symmetrical monoblock half clamps moulded in a thermoplastic material.

They can be mounted from other side using a M5 screw (to be ordered separately).





CARACTÉRISTIQUES TECHNIQUES
TECHNICAL DATA

MATIÈRE ET TRAITEMENT DE SURFACE

Matière : Thermoplastique noir
Température d'utilisation : -54°C à +135°C
Résistance aux fluides de bord avion.

APPLICATION

Utiliser un système de verrouillage standard de 5mm de diamètre, mais proscrire l'utilisation d'écrous captifs.

Remarque : Pour assembler les deux parties symétriques, il est important de toujours placer le point d'injection (créé au moment du processus de fabrication) présent sur chaque demi-peigne du même côté d'assemblage.

COUPLES DE SERRAGE

4 Nm, voir J20.050.

Attention : les explications concernant la référence J20.050 : «appliquer le couple de serrage maximal quand les écrous sont serrés par le côté supérieur» doivent être respectées.

Les autres couples de serrage doivent être autorisés par les autorités Design / Stress.

MATERIAL AND PROTECTIVE TREATMENT

Material: Black thermoplastic
Temperature: -54°C to + 135°C
Aircraft fluids resistant.

APPLICATION

Using Ø .197 inch standard fasteners, but avoiding the use of fixed anchor nuts.

Note: When assembling symmetrical parts, the two halves are to be assembled in a way that the material injection points (due to manufacturing process) are on the same side.

TORQUE VALUES

4 Nm, see J20.050.

Attention: the relevant explanation on J20.050: «when bolts are tightened from the head side use the maximum torque value» is to be obeyed.

Other torque values have to be agreed by Design / Stress authorities.

SYSTÈME DE RÉFÉRENCE
PART NUMBERING SYSTEM

JN0413 *** ****

Norme JN
Number of standard

Code des diamètres
Diameter codes

Entraxe : E
Center to center: E

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En premier lieu, il conviendra toujours de commencer par la plus petite taille de tuyau, telle que la configuration CDGF et non pas FGDC.

La suite des autres diamètres ne devrait pas être affectée par ce principe.

Deux demi-peignes sont nécessaires pour chaque assemblage.

Quelques exemples de références :
JN413F24 - JN413CJG60 - JN413CCDCE72

Always start with the quotation of the smallest pipe code of the configuration first e.g. CDGF and not FGDC.

The sequence of the diameters shall not be affected by this rule.

Two blocks are required for each assembly.

Few examples of part number:
JN413F24 - JN413CJG60 - JN413CCDCE72

CODE DES DIAMÈTRES

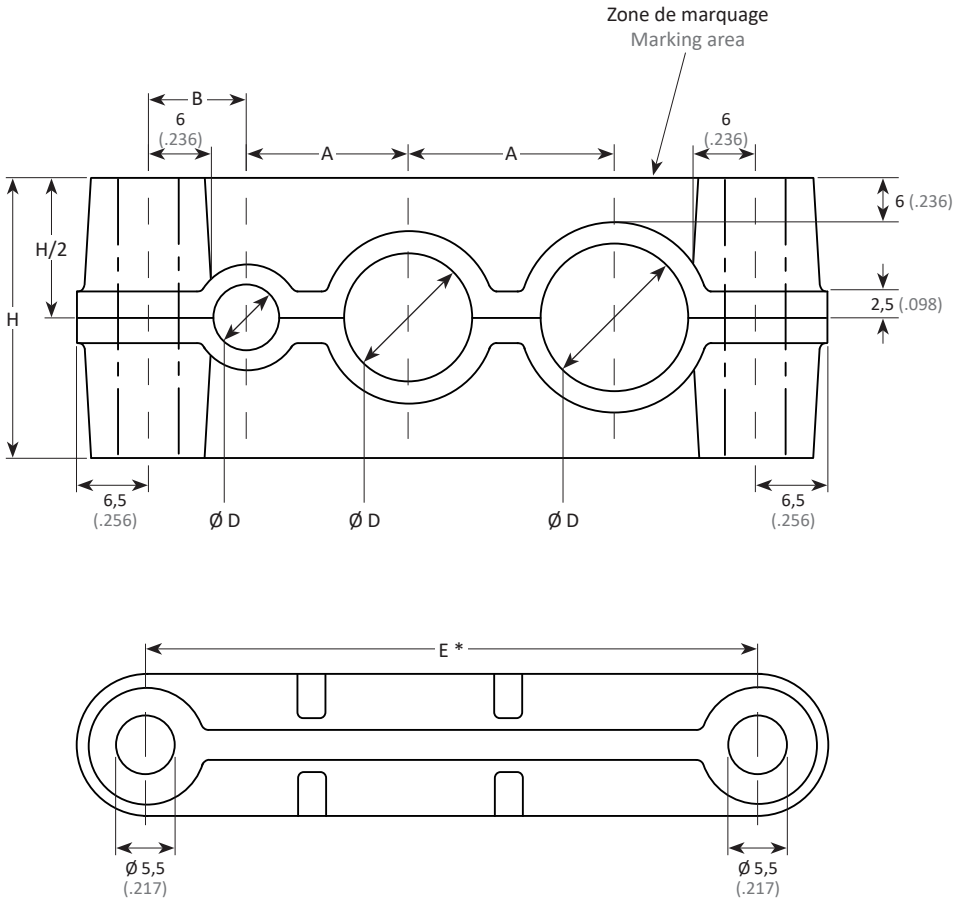
DIAMETER CODE

Code des diamètres / Diameter code		C	D	E	F	G	J	L	M	P
Extérieur du tuyau nominal (mm) Nominal Outer Pipe Ø (inches)		6 .236	8 .315	10 .393	12 .472	14 .551	16 .630	20 .787	22 .866	28 1.102
$A\ ^{+0,25}_{0}$		6 mm (.236 inch) $+\frac{(NPDR + NPDL)}{2}$								
B mm (inch)		9 (.354)	10 (.394)	11 (.433)	12 (.472)	13 (.512)	14 (.551)	16 (.63)	17 (.67)	20 (.787)
Ø D mm (inch)	max.	6,2 (.244)	8,2 (.323)	10,2 (.402)	12,2 (.48)	14,3 (.563)	16,3 (.642)	20,3 (.799)	22,3 (.878)	28,3 (1.114)
	min.	6,1 (.24)	8,1 (.319)	10,1 (.398)	12,1 (.476)	14,2 (.559)	16,2 (.638)	20,2 (.795)	22,2 (.874)	28,2 (1.11)
H mm (inch)		18 (.709)	20 (.787)	22 (.866)	24 (.945)	26 (1.024)	28 (1.102)	32 (1.26)	34 (.1.339)	40 (1.575)
H/2 mm (inch)		9 (.354)	10 (.394)	11 (.433)	12 (.472)	13 (.512)	14 (.551)	16 (.63)	17 (.67)	20 (.787)

NPDR = Diamètre nominal du tuyau placé à droite.
NPLD = Diamètre nominal du tuyau placé à gauche.
Les tolérances ne doivent pas être cumulées.

NPDR = Nominal Pipe Diameter Right hand side.
NPDL = Nominal Pipe Diameter Left hand side.
Tolerance must not be cumulative.

PEIGNES SÉRIE JN0413
CLAMPBLOCKS JN0413 SERIES



* L'entraxe E ne pourra jamais :
- excéder 74 mm
- être composé de plus de 5 tuyaux (cette règle vaut en toute circonstance et quel que soit l'entraxe E)

* Centre to centre E max. 2.913 inch or maximal 5 pipes, which occurs first.

Référence / Part number		Diamètre (métrique) / Diameter (metric)					Entraxe E / Center to center E		Hauteur / Height		Masse / Weight	
JN0413	AIR LB						mm	inches	mm	inches	g.	Lbs
JN0413CCCCC66	097101 001 59	6	6	6	6	6	66	2.598	9	0.354	6,26	0.014
JN0413CCCCE70	097101 002 59	6	6	6	6	10	70	2.756	11	0.433	7,52	0.017
JN0413CCDCE72	097101 003 59	6	6	8	6	10	72	2.835	11	0.433	7,64	0.017
JN0413CCECE74	097101 004 59	6	6	10	6	10	74	2.913	11	0.433	7,76	0.017
JN0413CCCE58	097101 005 59	6	6	6	10		58	2.283	11	0.433	6,53	0.014
JN0413CCJC64	097101 006 59	6	6	16	6		64	2.520	14	0.551	8,22	0.018
JN0413CCCD56	097101 007 59	6	6	6	8		56	2.205	10	0.394	6	0.013
JN0413CEEE66	097101 008 59	6	10	10	10		66	2.598	11	0.433	7,02	0.015
JN0413CDGJ74	097101 009 59	6	8	14	16		74	2.913	14	0.551	8,91	0.020
JN0413CDC44	097101 010 59	6	8	6			44	1.732	10	0.394	5,03	0.011
JN0413CDG52	097101 011 59	6	8	14			52	2.047	13	0.512	6,68	0.015
JN0413CGJ60	097101 012 59	6	14	16			60	2.362	14	0.551	7,56	0.017
JN0413CEJ56	097101 013 59	6	10	16			56	2.205	14	0.551	7,34	0.016
JN0413CJE56	097101 014 59	6	16	10			56	2.205	14	0.551	7,34	0.016
JN0413CC30	097101 015 59	6	6				30	1.181	9	0.354	3,68	0.008
JN0413CD32	097101 016 59	6	8				32	1.260	10	0.394	4,12	0.009
JN0413CE34	097101 017 59	6	10				34	1.339	11	0.433	4,55	0.010
JN0413C18	097101 018 59	6					18	0.709	9	0.354	2,81	0.006
JN0413D20	097101 019 59	8					20	0.787	10	0.394	3,20	0.007
JN0413EEE54	097101 020 59	10	10	10			54	2.126	11	0.433	6,04	0.013
JN0413ECE50	097101 021 59	10	6	10			50	1.969	11	0.433	5,79	0.013
JN0413EF40	097101 022 59	10	12				40	1.575	12	0.472	5,26	0.012
JN0413EE38	097101 023 59	10	10				38	1.496	11	0.433	4,80	0.011
JN0413EJ44	097101 024 59	10	16				44	1.732	14	0.551	6,16	0.014
JN0413E22	097101 025 59	10					22	0.866	11	0.433	3,57	0.008
JN0413FEG60	097101 026 59	12	10	14			60	2.362	13	0.512	7,22	0.016
JN0413F24	097101 027 59	12					24	0.945	12	0.472	3,95	0.009
JN0413GJ48	097101 028 59	14	16				48	1.890	14	0.551	6,38	0.014
JN0413G26	097101 029 59	14					26	1.024	13	0.512	4,30	0.009
JN0413J28	097101 030 59	16					28	1.102	14	0.551	4,67	0.010
JN0413EFG60	097101 031 59	10	12	14			60	2.362	13	0.512	7,22	0.016
JN0413CCE46	097101 032 59	6	6	10			46	1.811	11	0.433	5,54	0.012
JN0413ECJ56	097101 033 59	10	6	16			56	2.205	14	0.551	7,35	0.016
JN0413EGJ64	097101 034 59	10	14	16			64	2.520	14	0.551	7,87	0.017
JN0413GCJ60	097101 035 59	14	6	16			60	2.362	14	0.551	7,57	0.017
JN0413M34	097101 036 59	22					34	1.339	17	0.669	5,79	0.013
JN0413P40	097101 037 59	28					40	1.575	20	0.787	6,88	0.015
JN0413CDCG64	097101 038 59	6	8	6	14		64	2.520	13	0.512	7,80	0.017
JN0413EEG58	097101 039 59	10	10	14			58	2.283	13	0.512	7,10	0.016
JN0413CFG56	097101 040 59	6	12	14			56	2.205	13	0.512	6,93	0.015
JN0413GM54	097101 041 59	14	22				54	2.126	17	0.669	7,83	0.017
JN0413ECF52	097101 042 59	10	6	12			52	2.047	12	0.472	6,31	0.014
JN0413L32	097101 043 59	20					32	1.260	16	0.630	5,41	0.012
JN0413GFL70	097101 044 59	14	12	20			70	2.756	16	0.630	9,17	0.020
JN0413CCC42	097101 045 59	6	6	6			42	1.654	9	0.354	4,54	0.010
JN0413CCCC54	097101 046 59	6	6	6	6		54	2.126	9	0.354	5,40	0.012
JN0413CCEE62	097101 047 59	6	6	10	10		62	2.441	11	0.433	6,77	0.015
JN0413CEE50	097101 048 59	6	10	10			50	1.969	11	0.433	5,78	0.013
JN0413EGF60	097101 049 59	10	14	12			60	2.362	13	0.512	7,22	0.016
JN0413FG44	097101 050 59	12	14				44	1.732	13	0.512	5,82	0.013
JN0413CJ40	097101 051 59	6	16				40	1.575	14	0.551	5,85	0.013
JN0413CCD44	097101 052 59	6	6	8			44	1.732	10	0.394	5,04	0.011
JN0413CJG60	097101 053 59	6	16	14			60	2.362	14	0.551	7,56	0.017
JN0413DG40	097101 054 59	8	14				40	1.575	13	0.512	5,57	0.012
JN0413EG42	097101 055 59	10	14				42	1.654	13	0.512	5,70	0.013
JN0413FJ46	097101 056 59	12	16				46	1.811	14	0.551	6,29	0.014
JN0413FL50	097101 057 59	12	20				50	1.969	16	0.630	7,23	0.016
JN0413LM60	097101 058 59	20	22				60	2.362	17	0.669	8,15	0.018
JN0413CEF52	097101 059 59	6	10	12			52	2.047	12	0.472	6,31	0.014

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General part number table

Référentiel général

PIPE CLAMPS

PEIGNES & SUPPORTS DE TUYAUTERIE

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