

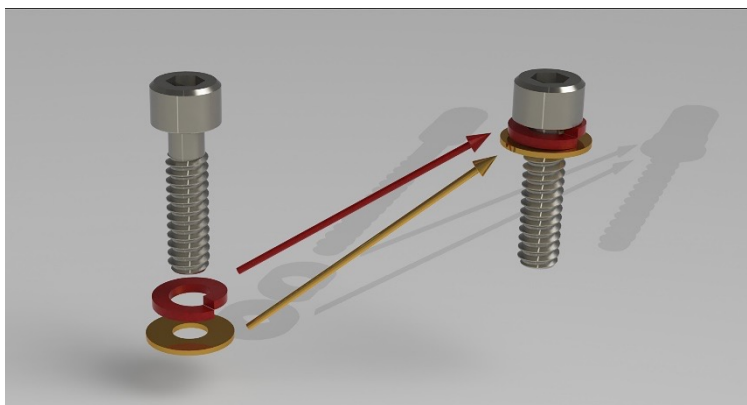
SEMS FASTENERS

PRODUCT GUIDE



SEMS - Pre-Assembled Screws & Washers

SEMS, by Clarendon Specialty Fasteners are preassembled screws with one or two free spinning, captivated washers. This ingenious combination of components offers many benefits which have revolutionised assembly manufacturing processes, particularly in the Aerospace Avionics sector.



KEY BENEFITS:

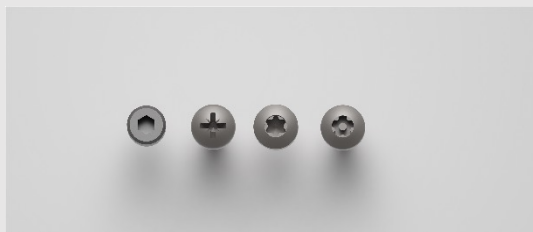
- Manufactured in the UK by Clarendon Specialty Fasteners
- UK, European and US sourced material with full traceability
- Lot traceable, material certification and FAIR's available
- Reduces Foreign Object Damage (FOD)
- Reduces component assembly time
- Reduces inventory count
- Improves ease and speed of assembly
- Eliminates downtime due to lost components
- Lowers kitting part count

Configuration Options

There are literally millions of permutations of SEMS combinations and our SEMS Configurator will aid you in the selection process. In summary, the following are offered as standard, with bespoke options also available:

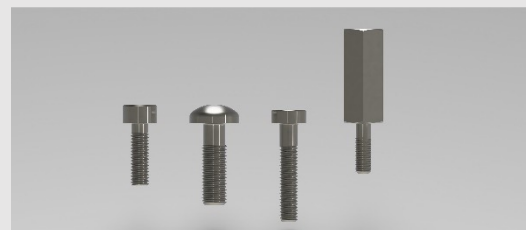
Drive Styles

- Hex Recess
- Cross Recess
- Hexalobular
- Security Drive
- Custom



Head Styles

- Cap Head
- Pan Head
- Cheese Head
- PCB Stand-Offs
- Custom



Diameters

- Metric M1.6 to M10
- Inch 2-56 UNC to 1/4-28 UNF

Material





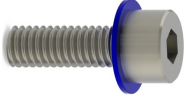
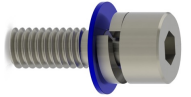

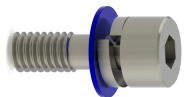

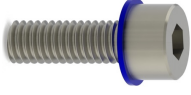
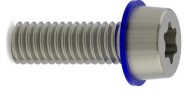
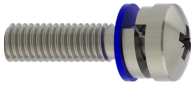

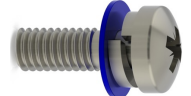

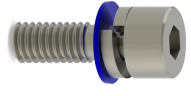

- 316 Stainless Steel A4-70
- A286 Stainless Steel
- Custom

Washers







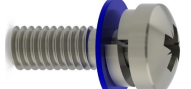
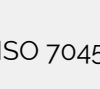

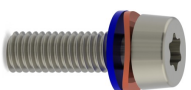
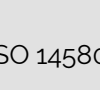

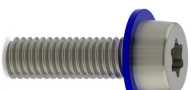
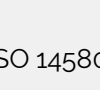
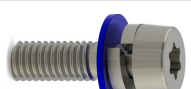
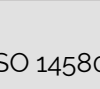

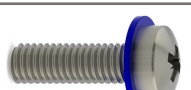
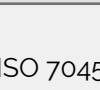
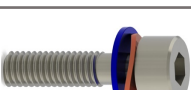
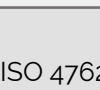

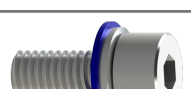
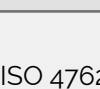

- Plain
- Spring
- Custom

Finish

- Natural
- Passivated
- Chemi-Black
- Custom

Illustration	Reference	Material	Hex Socket 	Cross Recess 	Hexalobular 	Spacer 	Description	Flat Washer	Lock Washer
	<u>115-01(X)</u>	316 A4-70	ISO 4762					STD	NONE
	<u>115-02(X)</u>	316 A4-70	ISO 4762					STD	
	<u>115-03(X)</u>	316 A4-70	ISO 4762				Increased shank	STD	
	<u>115-04(X)</u>	316 A4-70	ISO 4762					SMALL	NONE
	<u>115-06(X)</u>	316 A4-70			ISO 14580			SMALL	NONE
	<u>115-07(X)</u>	316 A4-70		ISO 7045				SMALL	
	<u>115-08(X)</u>	316 A4-70		ISO 7045				STD	
	<u>115-09(X)</u>	316 A4-70	ISO 4762					SMALL	

v.008

Illustration	Reference	Screw Material	Hex Socket	Cross Recess	Hexalobular	Spacer	Description	Flat Washer	Lock Washer
	115-10(X)	316 A4-70		 ISO 7045			Increased shank	STD	
	115-11(X)	316 A4-70		 ISO 7045			Increased shank	STD	
	115-12(X)	316 A4-70			 ISO 14580			SMALL	
	115-13(X)	316 A4-70			 ISO 14580			STD	NONE
	115-14(X)	316 A4-70			 ISO 14580			STD	
	115-15(X)	316 A4-70		 ISO 7045				STD	NONE
	115-17(X)	316 A4-70	 ISO 4762					STD	
	115-23(X)	316 A4-70	 ISO 4762					STD	

v.008






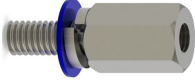


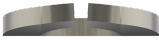

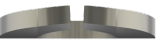
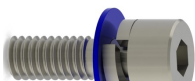

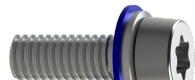
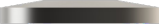
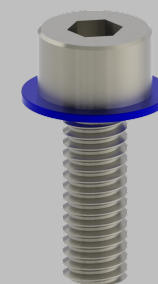
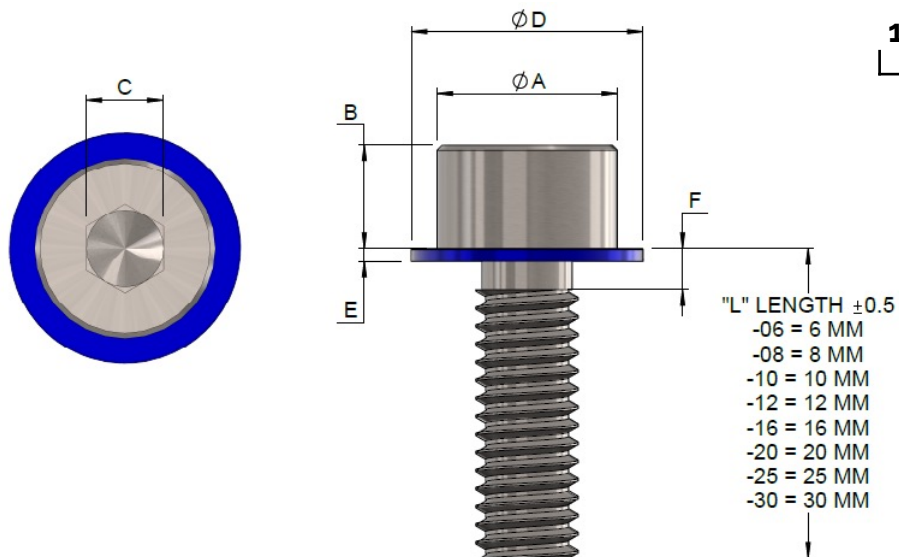
Illustration	Reference	Screw Material	Hex Socket	Cross Recess	Hexalobular	Spacer	Description	Flat Washer	Lock Washer
	<u>115-25(X)</u>	316 A4-70					Hex Spacer	STD	NONE
	<u>115-26(X)</u>	316 A4-70					Hex Spacer	STD	
	<u>115-30(X)</u>	316 A4-70	ISO 4762					STD	
	<u>115-31(X)</u>	316 A4-70		ISO 7045				STD	
	<u>115-40(X)</u>	A286	ISO 4762					STD	
	<u>115-60(X)</u>	316 A4-70			ISO 14580			STD	

Illustration	Reference	Screw Material	Hex Socket	Cross Recess	Hexalobular	Spacer	Description	Flat Washer	Lock Washer
	116-01X	316 A4-70	BS 2470					STD	NONE
	116-02X	316 A4-70	BS 2470					STD	
	116-03X	316 A4-70	BS 2470					SMALL	NONE
	116-08X	316 A4-70		BS 1981				STD	
	116-09X	316 A4-70		BS 1981			Increased shank	STD	
	116-40X	A286	BS 2470					STD	

ALL WASHERS ARE CAPTIVATED BY THREAD ROLLING



PART NUMBER CALL OUT



115-01 1 - 025 - 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET [111-0001](#)
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-01(X) = METRIC SERIES WITH PLAIN WASHERS

PART NUMBER EXAMPLE:

115-011-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

115-011-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

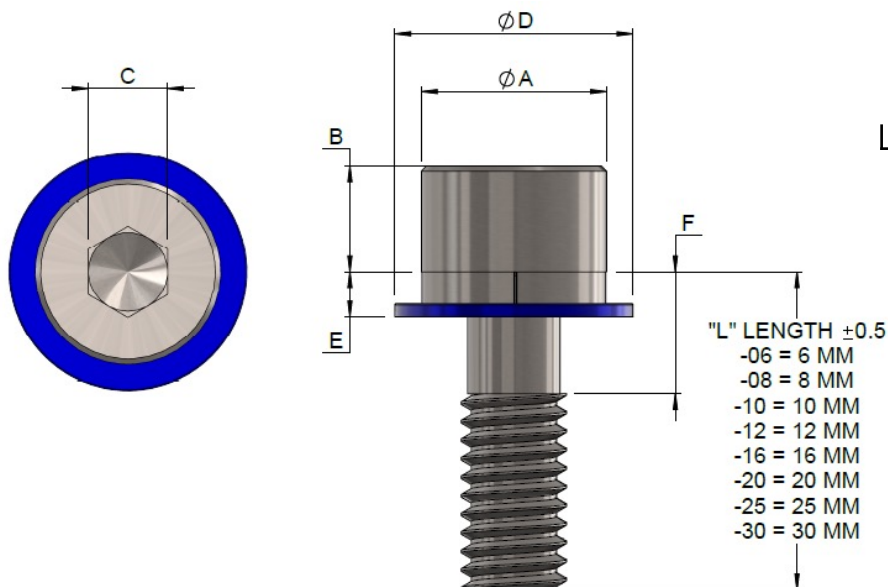
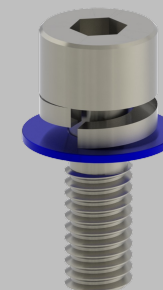
MATERIAL: 316 (A4-70) STAINLESS STEEL
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

METRIC SERIES

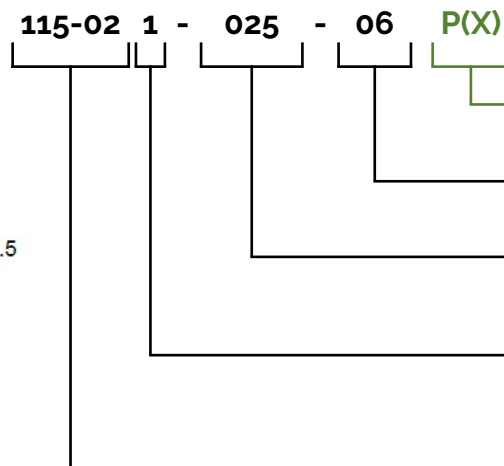
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washer Thk	(1)
115-01(X)-016-(XX)	M1.6 X 0.35	3.0	1.6	1.5	3.8/3.6	0.3	0.82
115-01(X)-020-(XX)	M2 X 0.4	3.8	2.0	1.5	5.0/4.7	0.45	1.05
115-01(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	6.5/6.2	0.5	1.18
115-01(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	7.0/6.7	0.5	1.25
115-01(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	9.0/8.7	0.5	1.55
115-01(X)-050-(XX)	M5 X 0.8	8.5	5.0	4.0	10.0/9.7	0.7	1.9
115-01(X)-060-(XX)	M6 X 1.0	10.0	6.0	5.0	12.5/12.1	0.7	2.2
115-01(X)-080-(XX)	M8 X 1.25	13.0	8.0	6.0	17.0/16.6	1.0	2.88
115-01(X)-100-(XX)	M10 X 1.5	16.0	10.0	8.0	21.0/20.5	1.0	3.25

(1) Distance before full thread starts All dimensions in MM

Head Dimensions to ISO 4762 Rolled thread to BS 3643



PART NUMBER CALL OUT



PATCH LOCK OPTION SEE DATA SHEET 111-0001
 (LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36))

UNDERHEAD LENGTH (L) IN MM
 E.G. -06=6 MM

THREAD CODE
 SEE TABLE

FINISH CODE
 0 = NATURAL
 1 = PASSIVATED
 2 = STAYBLACK

SEMS SERIES
 115-02(X) = METRIC SEMS WITH PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

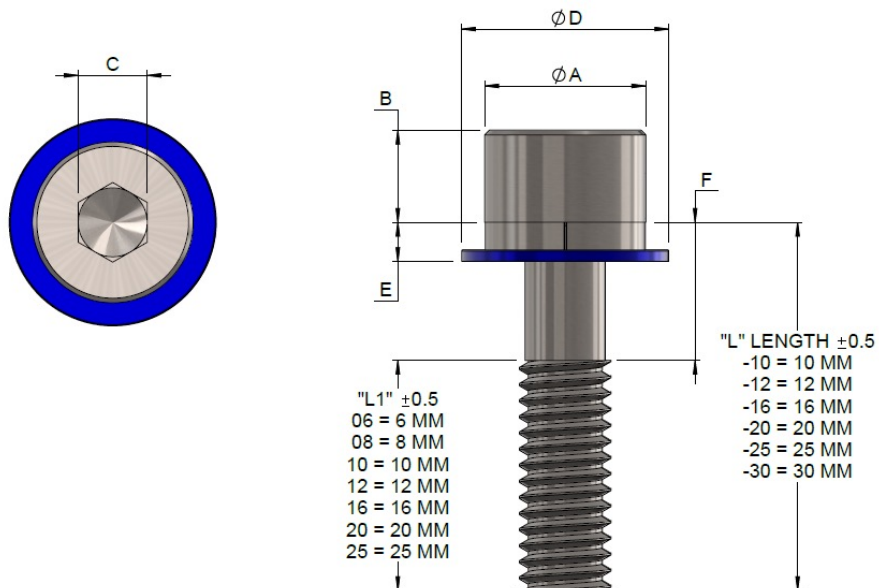
115-021-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

115-021-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

METRIC SERIES								
PART NUMBER	Thread	A	B	C	D	E	F	
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washers Thk (2)	(1)	
115-02(X)-020-(XX)	M2 X 0.4	3.8	2.0	1.5	5.0/4.7	0.95	2.4	
115-02(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	6.5/6.2	1.1	2.8	
115-02(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	7.0/6.7	1.5	3.8	
115-02(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	9.0/8.7	1.7	4.6	
115-02(X)-050-(XX)	M5 X 0.8	8.5	5.0	4.0	10.0/9.7	2.2	5.6	
115-02(X)-060-(XX)	M6 X 1.0	10.0	6.0	5.0	12.5/12.1	2.2	5.9	
115-02(X)-080-(XX)	M8 X 1.25	13.0	8.0	6.0	17.0/16.6	3.0	7.8	
115-02(X)-100-(XX)	M10 X 1.5	16.0	10.0	8.0	21.0/20.5	3.2	9.4	
		(1) Distance before full thread starts			(2) Washers in compressed state		All dimensions in MM	
		Head Dimensions to ISO 4762				Rolled thread to BS 3643		



PART NUMBER CALL OUT

115-03 1 - 030 -10 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET [111-0001](#)
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

THREAD LENGTH (L1) IN MM
E.G. 06=6 MM

UNDERHEAD LENGTH (L) IN MM
E.G. -10=10 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-03(X) = METRIC SEMS WITH PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

115-031-030-1006 P1 = METRIC SEMS, PASSIVATED, 10 MM LONG, 6 MM OF THREAD, WITH PATCH LOCK

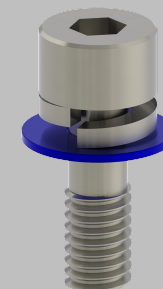
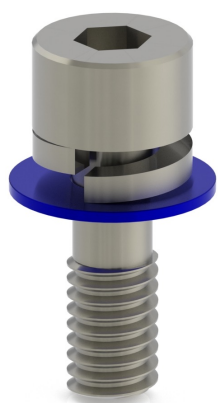
115-031-030-1006 = METRIC SEMS, PASSIVATED, 10 MM LONG, 6 MM OF THREAD, NO PATCH LOCK

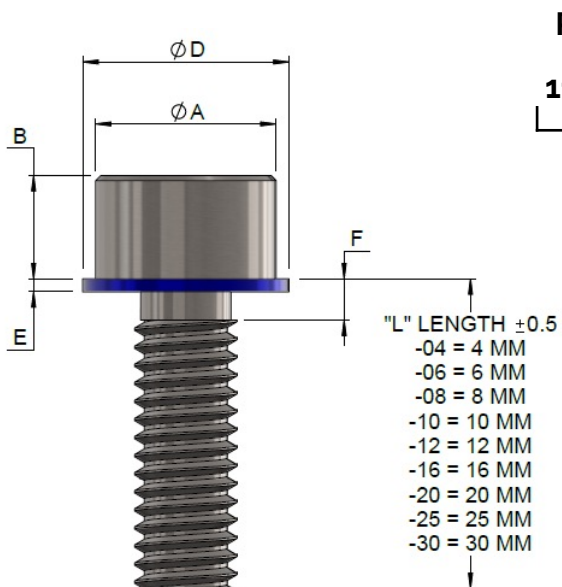
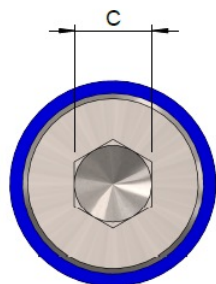
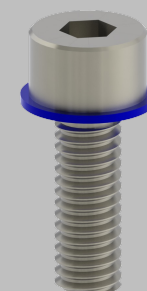
MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

**115-03(X) SOCKET CAP HEAD SEMS
WITH PLAIN AND LOCK WASHERS,
INCREASED SHANK LENGTH**

METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washers Thk (2)	(1)
115-03(X)-020-(XXXX)	M2 X 0.4	3.8	2.0	1.5	5.0/4.7	0.95	4
115-03(X)-025-(XXXX)	M2.5 X 0.45	4.5	2.5	2.0	6.5/6.2	1.1	4
115-03(X)-030-(XXXX)	M3 X 0.5	5.5	3.0	2.5	7.0/6.7	1.5	4
115-03(X)-040-(XXXX)	M4 X 0.7	7.0	4.0	3.0	9.0/8.7	1.7	6
115-03(X)-050-(XXXX)	M5 X 0.8	8.5	5.0	4.0	10.0/9.7	2.2	6
115-03(X)-060-(XXXX)	M6 X 1.0	10.0	6.0	5.0	12.5/12.1	2.2	6
115-03(X)-080-(XXXX)	M8 X 1.25	13.0	8.0	6.0	17.0/16.6	3.0	8
115-03(X)-100-(XXXX)	M10 X 1.5	16.0	10.0	8.0	21.0/20.5	3.2	10
(1) Minimum difference between 'L' and L1		(2) Washers in compressed state			All dimensions in MM		
Head Dimensions to ISO 4762				Rolled thread to BS 3643			





PART NUMBER CALL OUT

115-04 1 - 025 - 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET [111-0001](#)
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-04(X) = METRIC SERIES WITH SMALL PLAIN WASHER

PART NUMBER EXAMPLE:

115-041-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

115-041-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

METRIC SERIES

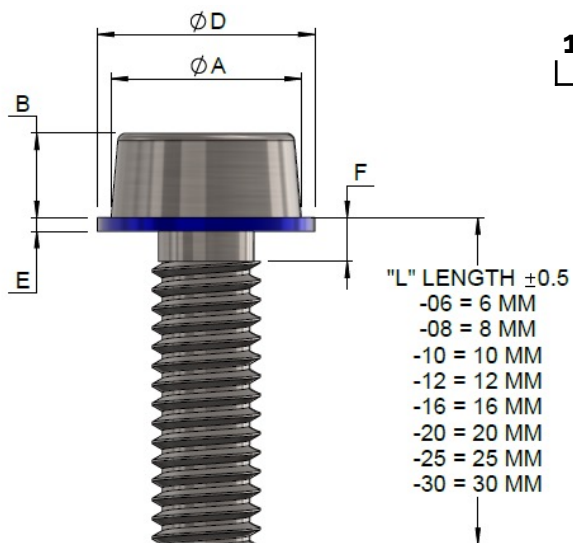
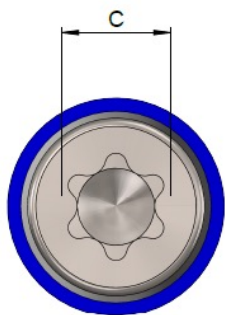
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washer Thk	(1)
115-04(X)-016-(XX)	M1.6 x 0.35	3.0	1.6	1.5	3.5/3.2	0.3	0.88
115-04(X)-020-(XX)	M2 X 0.4	3.8	2.0	1.5	4.5/4.2	0.45	1.1
115-04(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	5.0/4.7	0.5	1.2
115-04(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	6.0/5.7	0.5	1.3
115-04(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	8.0/7.6	0.5	1.6
115-04(X)-050-(XX)	M5 X 0.8	8.5	5.0	4.0	9.0/8.6	1.0	2.2
115-04(X)-060-(XX)	M6 X 1.0	10.0	6.0	5.0	11.0/10.5	1.6	3.1
115-04(X)-080-(XX)	M8 X 1.25	13.0	8.0	6.0	15.0/14.5	1.6	3.5
115-04(X)-100-(XX)	M10 X 1.5	16.0	10.0	8.0	18.0/17.5	1.6	3.9

(1) Distance before full thread starts

All dimensions in MM

Head Dimensions to ISO 4762

Rolled thread to BS 3643



PART NUMBER CALL OUT

115-06 1 - 025 - 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET [111-0001](#)
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)

SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-06(X) = METRIC SERIES WITH SMALL PLAIN WASHER

PART NUMBER EXAMPLE:

115-061-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

115-061-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

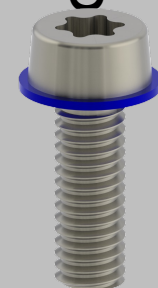
MATERIAL: 316 (A4-70) STAINLESS STEEL

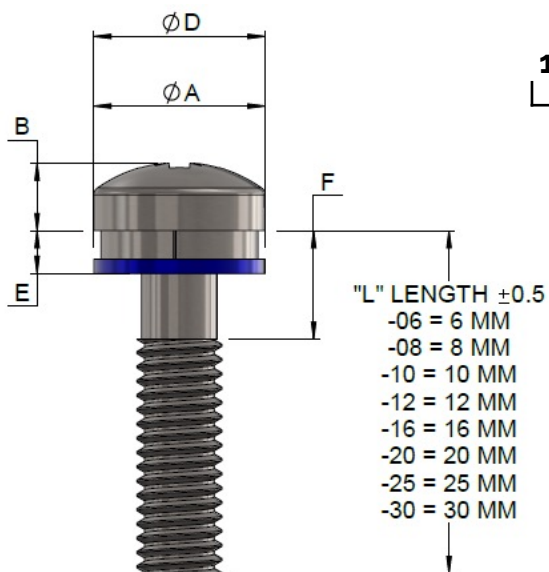
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT



METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Socket No	Washer Diam	Washer Thk	(1)
115-06(X)-020-(XX)	M2 X 0.4	3.8	1.55	6	4.5/4.2	0.45	1.1
115-06(X)-025-(XX)	M2.5 X 0.45	4.5	1.85	8	5.0/4.7	0.5	1.2
115-06(X)-030-(XX)	M3 X 0.5	5.5	2.40	10	6.0/5.7	0.5	1.3
115-06(X)-040-(XX)	M4 X 0.7	7.0	3.10	20	8.0/7.6	0.5	1.6
115-06(X)-050-(XX)	M5 X 0.8	8.5	3.65	25	9.0/8.6	1.0	2.2
115-06(X)-060-(XX)	M6 X 1.0	10.0	4.40	30	11.0/10.5	1.6	3.1
115-06(X)-080-(XX)	M8 X 1.25	13.0	5.80	45	15.0/14.5	1.6	3.5
115-06(X)-100-(XX)	M10 X 1.5	16.0	6.90	50	18.0/17.5	1.6	3.9
(1) Distance before full thread starts				All dimensions in MM			
Head Dimensions to BS EN 14580				Rolled thread to BS 3643			

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PART NUMBER CALL OUT

115-07 1 - 025 - 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-07(X) = METRIC SERIES WITH SMALL PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

115-071-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

115-071-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

115-07(X) CROSS RECESS PAN HEAD
SEMS WITH SMALL PLAIN WASHER
AND LOCK WASHER

METRIC SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Driver Size	Washer Diam	Washers Thk (2)	(1)
115-07(X)-020-(XX)	M2 X 0.4	4.0	1.6	1	4.5/4.2	0.95	2.4
115-07(X)-025-(XX)	M2.5 X 0.45	5.0	2.0	1	5.0/4.7	1.1	2.8
115-07(X)-030-(XX)	M3 X 0.5	6.0	2.4	1	6.0/5.7	1.5	3.8
115-07(X)-040-(XX)	M4 X 0.7	8.0	3.1	2	8.0/7.6	1.7	4.6
115-07(X)-050-(XX)	M5 X 0.8	10.0	3.8	2	9.0/8.6	2.5	5.9
115-07(X)-060-(XX)	M6 X 1.0	12.0	4.6	3	11.0/10.5	3.1	6.8
115-07(X)-080-(XX)	M8 X 1.25	16.0	6.0	4	15.0/14.5	3.6	8.4
115-07(X)-100-(XX)	M10 X 1.5	20.0	7.5	4	18.0/17.5	3.8	10.0

(1) Distance before full thread starts

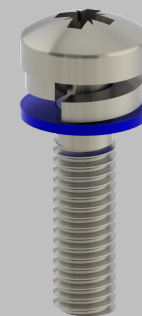
(2) Washers in compressed state

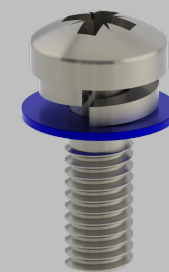
All dimensions in MM

Head Dimensions to DIN 7985 TYPE Z

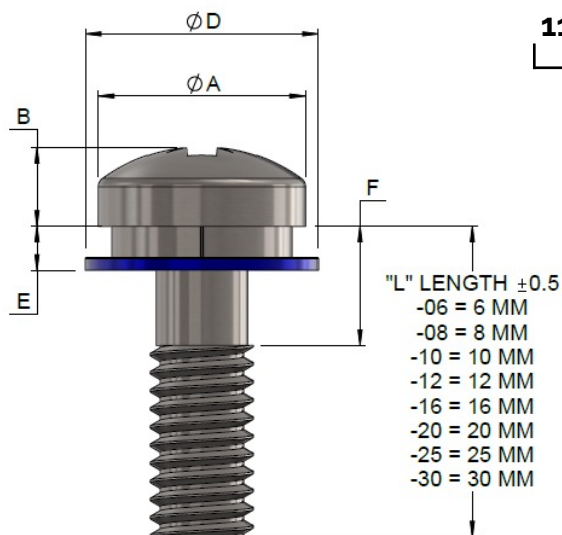
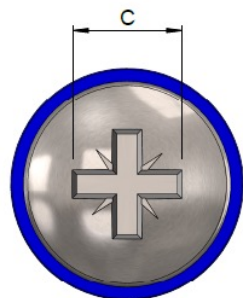
Rollled thread to BS 3643

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PART NUMBER CALL OUT



115-08 1 - 025 - 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-08(X) = METRIC SERIES WITH PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

115-081-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

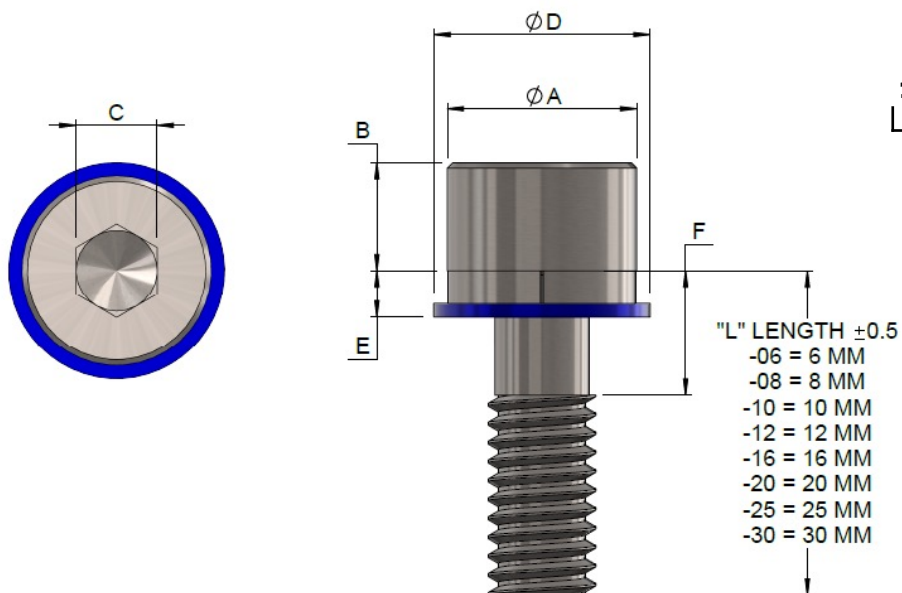
115-081-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

METRIC SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Driver Size	Washer Diam	Washers Thk (2)	(1)
115-08(X)-020-(XX)	M2 X 0.4	4.0	1.6	1	5.0/4.7	0.95	2.4
115-08(X)-025-(XX)	M2.5 X 0.45	5.0	2.0	1	6.5/6.2	1.1	2.8
115-08(X)-030-(XX)	M3 X 0.5	6.0	2.4	1	7.0/6.7	1.5	3.8
115-08(X)-040-(XX)	M4 X 0.7	8.0	3.1	2	9.0/8.7	1.7	4.6
115-08(X)-050-(XX)	M5 X 0.8	10.0	3.8	2	10.0/9.7	2.2	5.6
115-08(X)-060-(XX)	M6 X 1.0	12.0	4.6	3	12.5/12.1	2.2	5.9
115-08(X)-080-(XX)	M8 X 1.25	16.0	6.0	4	17.0/16.6	3.0	7.8
115-08(X)-100-(XX)	M10 X 1.5	20.0	7.5	4	21.0/20.5	3.2	9.4
		(1) Distance before full thread starts		(2) Washers in compressed state		All dimensions in MM	
		Head Dimensions to DIN 7985 TYPE Z				Rolled thread to BS 3643	



PART NUMBER CALL OUT

115-09 1 - 025 - 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET [111-0001](#)
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-09(X) = METRIC SEMS WITH SMALL PLAIN WASHER AND LOCK WASHER

PART NUMBER EXAMPLE:

115-091-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

115-091-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

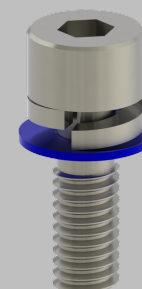
MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

115-09(X) SOCKET CAP HEAD SEMS
WITH SMALL PLAIN WASHER
AND LOCK WASHER

METRIC SERIES								
PART NUMBER	Thread	A	B	C	D	E	F	
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washers Thk (2)	(1)	
115-09(X)-020-(XX)	M2 X 0.4	3.8	2.0	1.5	4.5/4.2	0.95	2.4	
115-09(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	5.0/4.7	1.1	2.8	
115-09(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	6.0/5.7	1.5	3.8	
115-09(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	8.0/7.6	1.7	4.6	
115-09(X)-050-(XX)	M5 X 0.8	8.5	5.0	4.0	9.0/8.6	2.5	5.9	
115-09(X)-060-(XX)	M6 X 1.0	10.0	6.0	5.0	11.0/10.5	3.1	6.8	
115-09(X)-080-(XX)	M8 X 1.25	13.0	8.0	6.0	15.0/14.5	3.6	8.4	
115-09(X)-100-(XX)	M10 X 1.5	16.0	10.0	8.0	18.0/17.5	3.8	10.0	
		(1) Distance before full thread starts			(2) Washers in compressed state		All dimensions in MM	
				Head Dimensions to ISO 4762		Rolled thread to BS 3643		

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PART NUMBER CALL OUT

115-10 1 - 030 -10 06 A P(X)

PATCH LOCK OPTION SEE DATA SHEET [111-0001](#)
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

SPRING WASHER TYPE

A = DIN 137A (CURVED)
B = BS 4463 (3 WAVES)

THREAD LENGTH (L₁) IN MM

E.G. 06=6 MM

UNDERHEAD LENGTH (L) IN MM

E.G. -10=10 MM

THREAD CODE

SEE TABLE

FINISH CODE

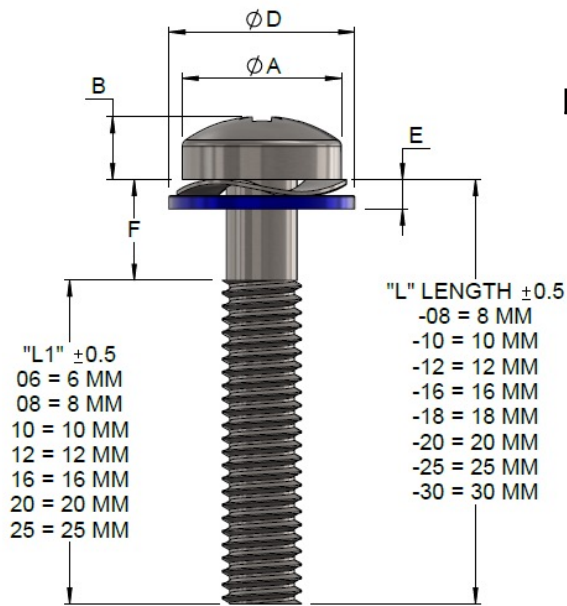
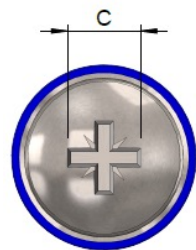
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES

115-10(X) = METRIC SERIES WITH PLAIN AND SPRING WASHERS, INCREASED SHANK LENGTH

PART NUMBER EXAMPLE:

115-101-030-1006 A P1 = METRIC SEMS, PASSIVATED, M3,10 MM LONG, 6 MM OF THREAD, CURVED WASHER DIN 137A, WITH PATCH LOCK
115-101-030-1006 A = METRIC SEMS, PASSIVATED, M3,10 MM LONG, 6 MM OF THREAD, CURVED WASHER DIN 137A, NO PATCH LOCK



"L1" ±0.5
06 = 6 MM
08 = 8 MM
10 = 10 MM
12 = 12 MM
16 = 16 MM
20 = 20 MM
25 = 25 MM

"L" LENGTH ±0.5
-08 = 8 MM
-10 = 10 MM
-12 = 12 MM
-16 = 16 MM
-18 = 18 MM
-20 = 20 MM
-25 = 25 MM
-30 = 30 MM

WASHER:



DIN 137A



BS 4463

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

METRIC SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Driver Size	Washer Diam	Washers Thk (2)	(1)
115-10(X)-020-(XXXX)	M2 X 0.4	4.0	1.6	1	5.0/4.7	0.7	2
115-10(X)-025-(XXXX)	M2.5 X 0.45	5.0	2.0	1	6.5/6.2	0.8	4
115-10(X)-030-(XXXX)	M3 X 0.5	6.0	2.4	1	7.0/6.7	0.9	4
115-10(X)-040-(XXXX)	M4 X 0.7	8.0	3.1	2	9.0/8.7	1.0	4
115-10(X)-050-(XXXX)	M5 X 0.8	10.0	3.8	2	10.0/9.7	1.2	4
115-10(X)-060-(XXXX)	M6 X 1.0	12.0	4.6	3	12.5/12.1	1.2	6
115-10(X)-080-(XXXX)	M8 X 1.25	16.0	6.0	4	17.0/16.6	1.5	8
115-10(X)-100-(XXXX)	M10 X 1.5	20.0	7.5	4	21.0/20.5	1.8	8

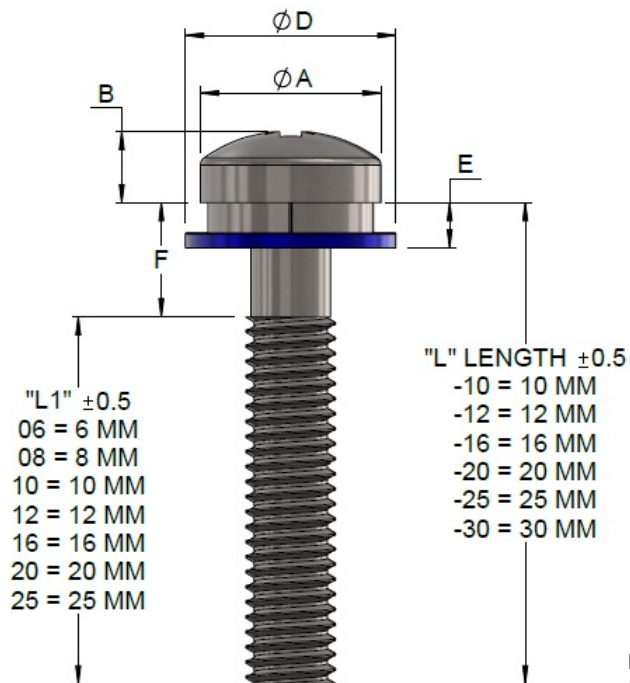
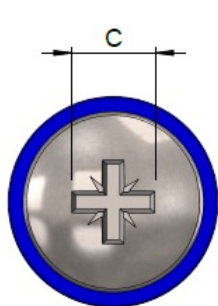
(1) Minimum difference between 'L' and 'L1'

(2) Washers in compressed state

All dimensions in MM

Head Dimensions to DIN 7985 TYPE Z

Rolled thread to BS 3643



PART NUMBER CALL OUT

115-11 1 -030 -10 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET [111-0001](#)
 (LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
 SEE EXAMPLE BELOW)

THREAD LENGTH (L1) IN MM
 E.G. 06=6 MM

UNDERHEAD LENGTH (L) IN MM
 E.G. -10=10 MM

THREAD CODE
 SEE TABLE

FINISH CODE
 0 = NATURAL
 1 = PASSIVATED
 2 = STAYBLACK

SEMS SERIES
 115-11(X) = METRIC SEMS WITH PLAIN AND LOCK
 WASHERS, INCREASED SHANK LENGTH

PART NUMBER EXAMPLE:

115-111-030-1006 P1 = METRIC SEMS, PASSIVATED, M3,10 MM LONG, 6 MM OF THREAD, WITH PATCH LOCK

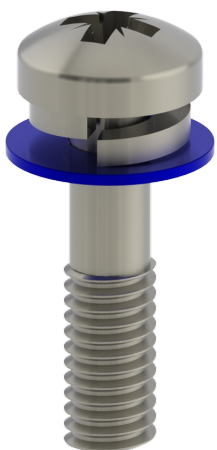
115-111-030-1006 = METRIC SEMS, PASSIVATED, M3,10 MM LONG, 6 MM OF THREAD, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

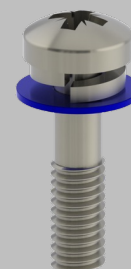
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

METRIC SERIES

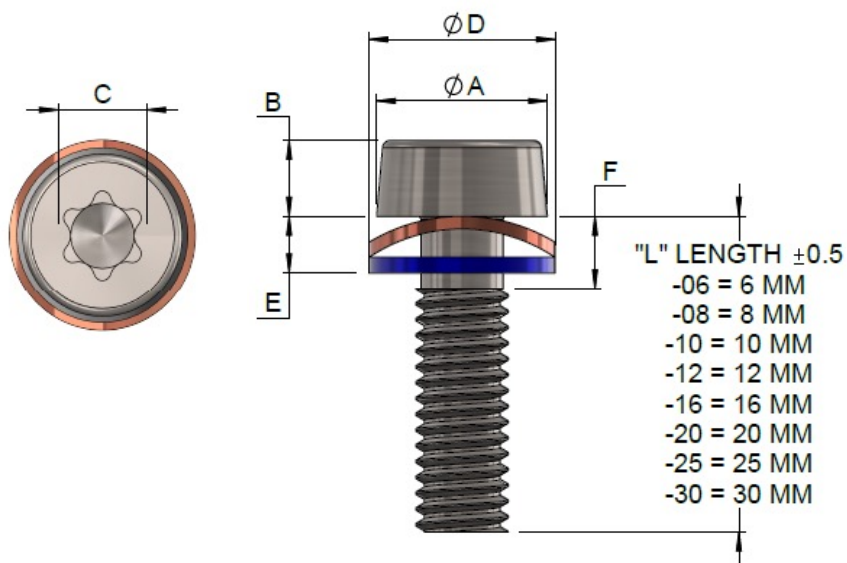
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Driver Size	Washer Diam	Washers Thk (2)	(1)
115-10(X)-020-(XXXX)	M2 X 0.4	4.0	1.6	1	5.0/4.7	0.95	4
115-10(X)-025-(XXXX)	M2.5 X 0.45	5.0	2.0	1	6.5/6.2	1.1	4
115-10(X)-030-(XXXX)	M3 X 0.5	6.0	2.4	1	7.0/6.7	1.5	4
115-10(X)-040-(XXXX)	M4 X 0.7	8.0	3.1	2	9.0/8.7	1.7	6
115-10(X)-050-(XXXX)	M5 X 0.8	10.0	3.8	2	10.0/9.7	2.2	6
115-10(X)-060-(XXXX)	M6 X 1.0	12.0	4.6	3	12.5/12.1	2.2	6
115-10(X)-080-(XXXX)	M8 X 1.25	16.0	6.0	4	17.0/16.6	3.0	8
115-10(X)-100-(XXXX)	M10 X 1.5	20.0	7.5	4	21.0/20.5	3.2	10
		(1) Minimum difference between 'L' and 'L1'		(2) Washers in compressed state		All dimensions in MM	
		Head Dimensions to DIN 7985 TYPE Z				Rolled thread to BS 3643	



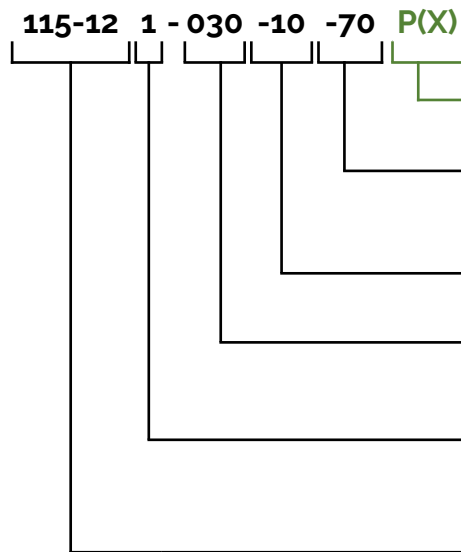
115-11(X) CROSS RECESS PAN HEAD SEMS
 WITH PLAIN AND LOCK
 WASHERS, INCREASED SHANK LENGTH



115-11(X) CROSS RECESS PAN HEAD SEMS WITH PLAIN AND LOCK WASHERS, INCREASED SHANK LENGTH



PART NUMBER CALL OUT



PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

CURVED WASHER MATERIAL CODE
NONE = A2 ST. STEEL AS PER NFE27620
A4 = A4 ST. STEEL AS PER NFE27620
70 = COPPER BERYLLIUM AS PER NFE27620

UNDERHEAD LENGTH (L) IN MM
E.G. -10=10 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-12(X) = METRIC SERIES WITH SMALL PLAIN WASHER
AND CURVED WASHER

PART NUMBER EXAMPLE:

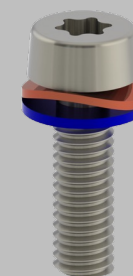
115-121-030-10 P1 = METRIC SEMS, PASSIVATED, M3, 10 MM LONG, ST STEEL CURVED WASHER, WITH PATCH LOCK

115-121-030-10 = METRIC SEMS, PASSIVATED, M3, 10 MM LONG, ST STEEL CURVED WASHER, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL (EXCEPT CURVED WASHER)
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

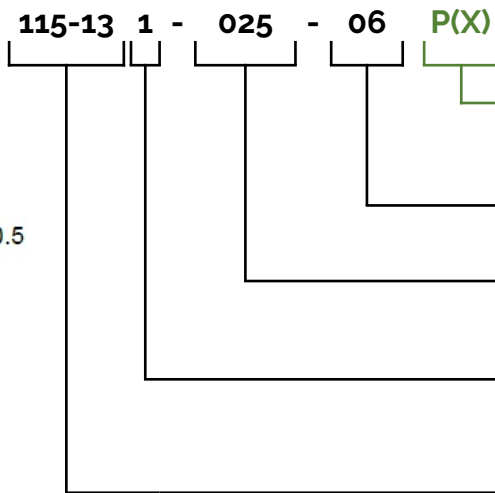
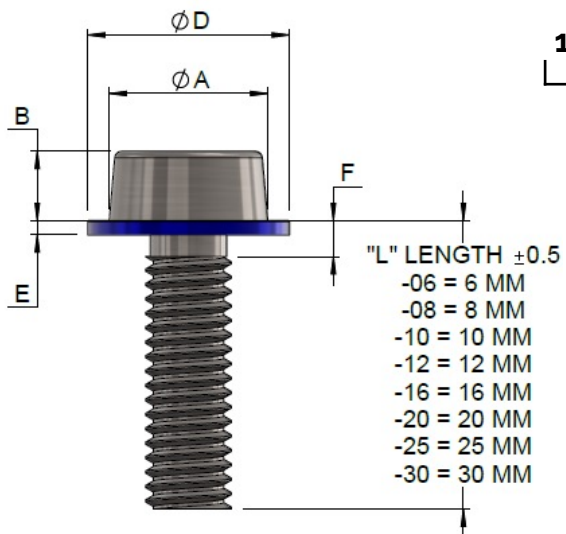
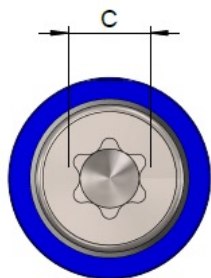
METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Socket No	Washer Diam	Washers Thk (2)	(1)
115-12(X)-020-(XX)	M2 X 0.4	3.8	1.55	6	4.5/4.2	0.75	2.0
115-12(X)-025-(XX)	M2.5 X 0.45	4.5	1.85	8	5.0/4.7	0.8	2.2
115-12(X)-030-(XX)	M3 X 0.5	5.5	2.40	10	6.0/5.7	0.9	2.5
115-12(X)-040-(XX)	M4 X 0.7	7.0	3.10	20	8.0/7.6	1.0	3.1
115-12(X)-050-(XX)	M5 X 0.8	8.5	3.65	25	9.0/8.6	1.5	3.9
115-12(X)-060-(XX)	M6 X 1.0	10.0	4.40	30	11.0/10.5	2.1	5.1
115-12(X)-080-(XX)	M8 X 1.25	13.0	5.80	45	15.0/14.5	2.4	6.3
115-12(X)-100-(XX)	M10 X 1.5	16.0	6.90	50	18.0/17.5	2.6	7.3
		(1) Distance before full thread starts		(2) Washers in compressed state		All dimensions in MM	
				Head Dimensions to BS EN 14580		Rolled thread to BS 3643	

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PART NUMBER CALL OUT



PATCH LOCK OPTION SEE DATA SHEET 111-0001
 (LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
 SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
 E.G. -06=6 MM

THREAD CODE
 SEE TABLE

FINISH CODE
 0 = NATURAL
 1 = PASSIVATED
 2 = STAYBLACK

SEMS SERIES
 115-13(X) = METRIC SERIES WITH PLAIN WASHER

PART NUMBER EXAMPLE:

115-131-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

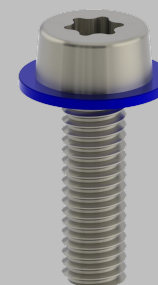
115-131-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

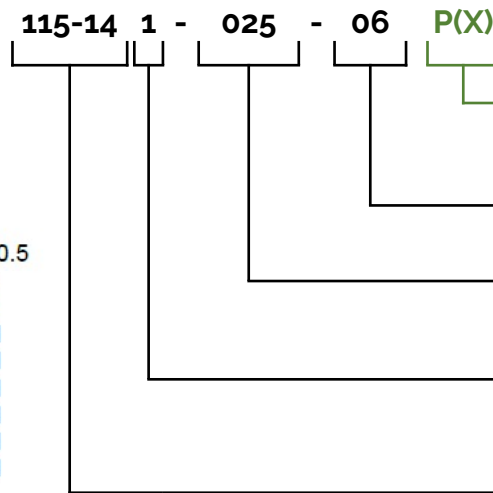
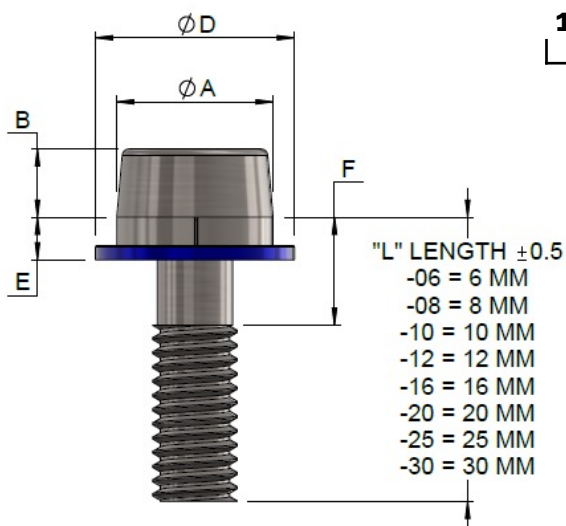
METRIC SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Socket No	Washer Diam	Washer Thk	(1)
115-13(X)-020-(XX)	M2 X 0.4	3.8	1.55	6	5.0/4.7	0.45	1.1
115-13(X)-025-(XX)	M2.5 X 0.45	4.5	1.85	8	6.5/6.2	0.5	1.2
115-13(X)-030-(XX)	M3 X 0.5	5.5	2.40	10	7.0/6.7	0.5	1.3
115-13(X)-040-(XX)	M4 X 0.7	7.0	3.10	20	9.0/8.7	0.5	1.6
115-13(X)-050-(XX)	M5 X 0.8	8.5	3.65	25	10.0/9.7	0.7	1.9
115-13(X)-060-(XX)	M6 X 1.0	10.0	4.40	30	12.5/12.1	0.7	2.2
115-13(X)-080-(XX)	M8 X 1.25	13.0	5.80	45	17.0/16.6	1.0	2.9
115-13(X)-100-(XX)	M10 X 1.5	16.0	6.90	50	21.0/20.5	1.0	3.3
(1) Distance before full thread starts				All dimensions in MM			
Head Dimensions to ISO 14580				Rolled thread to BS 3643			





PART NUMBER CALL OUT



PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-14(X) = METRIC SERIES WITH PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

115-141-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

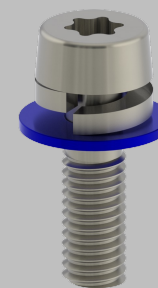
115-141-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

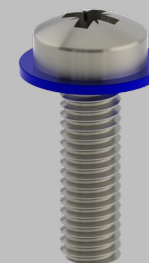
MATERIAL: 316 (A4-70) STAINLESS STEEL
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

115-14(X) HEXALOBULAR SOCKET CHEESE HEAD SEMS WITH PLAIN AND LOCK WASHERS

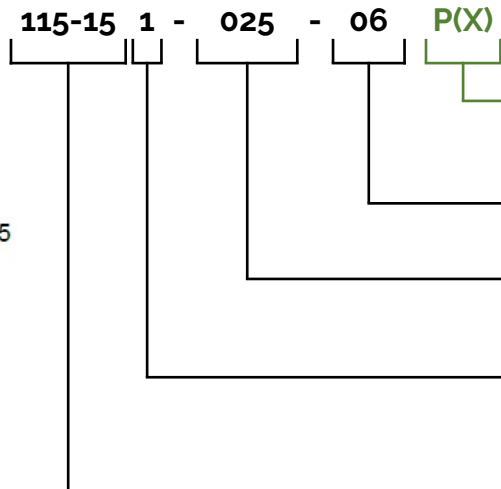
METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Socket Size	Washer Diam	Washers Thk (2)	(1)
115-14(X)-020-(XX)	M2 X 0.4	3.8	1.55	6	5.0/4.7	0.95	2.4
115-14(X)-025-(XX)	M2.5 X 0.45	4.5	1.85	8	6.5/6.2	1.1	2.8
115-14(X)-030-(XX)	M3 X 0.5	5.5	2.40	10	7.0/6.7	1.5	3.8
115-14(X)-040-(XX)	M4 X 0.7	7.0	3.10	20	9.0/8.7	1.7	4.6
115-14(X)-050-(XX)	M5 X 0.8	8.5	3.65	25	10.0/9.7	2.2	5.6
115-14(X)-060-(XX)	M6 X 1.0	10.0	4.40	30	12.5/12.1	2.2	5.9
115-14(X)-080-(XX)	M8 X 1.25	13.0	5.80	45	17.0/16.6	3.0	7.8
115-14(X)-100-(XX)	M10 X 1.5	16.0	6.90	50	21.0/20.5	3.2	9.4
		(1) Distance before full thread starts		(2) Washers in compressed state		All dimensions in MM	
Head Dimensions to ISO 14580				Rolled thread to BS 3643			

v.008





PART NUMBER CALL OUT



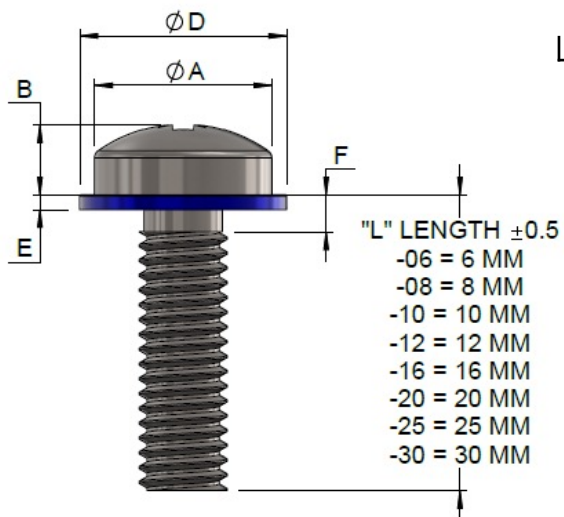
PATCH LOCK OPTION SEE DATA SHEET [111-0001](#)
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-15(X) = METRIC SERIES WITH PLAIN WASHER



PART NUMBER EXAMPLE:

115-151-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

115-151-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

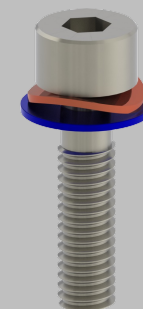
MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

METRIC SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Driver Size	Washer Diam	Washer Thk	(1)
115-15(X)-020-(XX)	M2 X 0.4	4.0	1.6	1	5.0/4.7	0.45	1.1
115-15(X)-025-(XX)	M2.5 X 0.45	5.0	2.0	1	6.5/6.2	0.5	1.2
115-15(X)-030-(XX)	M3 X 0.5	6.0	2.4	1	7.0/6.7	0.5	1.3
115-15(X)-040-(XX)	M4 X 0.7	8.0	3.1	2	9.0/8.7	0.5	1.6
115-15(X)-050-(XX)	M5 X 0.8	10.0	3.8	2	10.0/9.7	0.7	1.9
115-15(X)-060-(XX)	M6 X 1.0	12.0	4.6	3	12.5/12.1	0.7	2.2
115-15(X)-080-(XX)	M8 X 1.25	16.0	6.0	4	17.0/16.6	1.0	2.9
115-15(X)-100-(XX)	M10 X 1.5	20.0	7.5	4	21.0/20.5	1.0	3.3
(1) Distance before full thread starts				All dimensions in MM			
Head Dimensions to DIN 7985 TYPE Z				Rolled thread to BS 3643			





PART NUMBER CALL OUT

115-17 1 - 025 - 06 P(X)

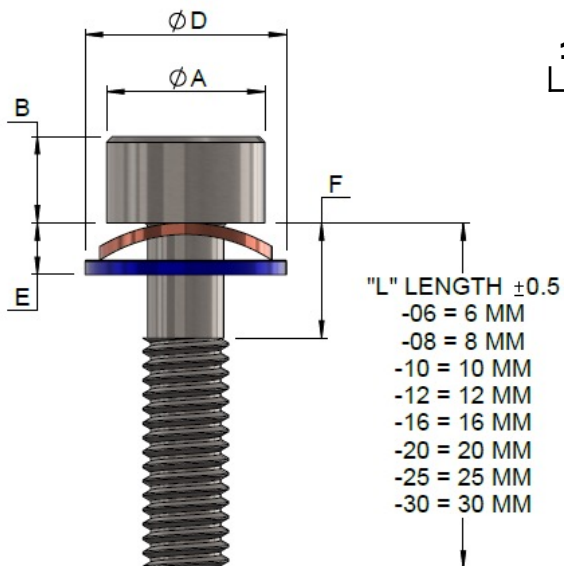
PATCH LOCK OPTION SEE DATA SHEET [111-0001](#)
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-17(X) = METRIC SERIES WITH PLAIN WASHER
AND CURVED WASHER



PART NUMBER EXAMPLE:

115-171-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

115-171-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

METRIC SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washers Thk (2)	(1)
115-17(X)-020-(XX)	M2 X 0.4	3.8	2.0	1.5	5.0/4.7	0.75	2.1
115-17(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	6.5/6.2	0.8	2.2
115-17(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	7.0/6.7	0.9	2.6
115-17(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	9.0/8.7	1.0	3.2
115-17(X)-050-(XX)	M5 X 0.8	8.5	5.0	4.0	10.0/9.7	1.2	3.7
115-17(X)-060-(XX)	M6 X 1.0	10.0	6.0	5.0	12.5/12.1	1.2	4.4
115-17(X)-080-(XX)	M8 X 1.25	13.0	8.0	6.0	17.0/16.6	1.5	6.3
115-17(X)-100-(XX)	M10 X 1.5	16.0	10.0	8.0	21.0/20.5	1.8	7.3

(1) Distance before full thread starts

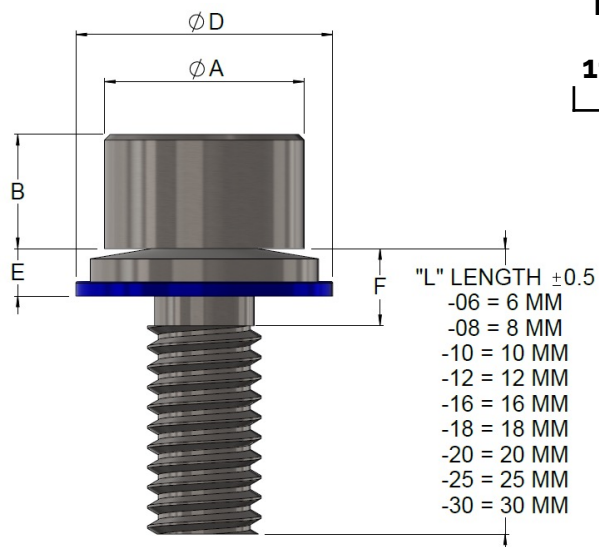
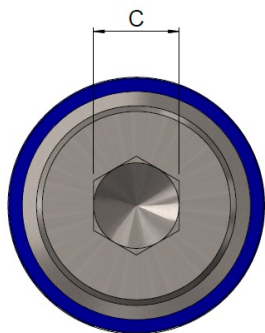
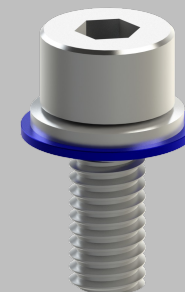
(2) Washers in compressed state

All dimensions in MM

Head Dimensions to ISO 4762

Curved washer to DIN 137A

Rolled thread to BS 3643



PART NUMBER CALL OUT

115-23 **1** - **025** - **06** **P(X)**

PATCH LOCK OPTION SEE DATA SHEET [111-0001](#)
 (LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
 SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
 E.G. -06=6 MM

THREAD CODE
 SEE TABLE

FINISH CODE
 0 = NATURAL
 1 = PASSIVATED
 2 = STAYBLACK

SEMS SERIES
 115-23(X) = METRIC SEMS WITH PLAIN WASHER AND BELLEVILLE WASHER

PART NUMBER EXAMPLE:

115-231-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

115-231-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

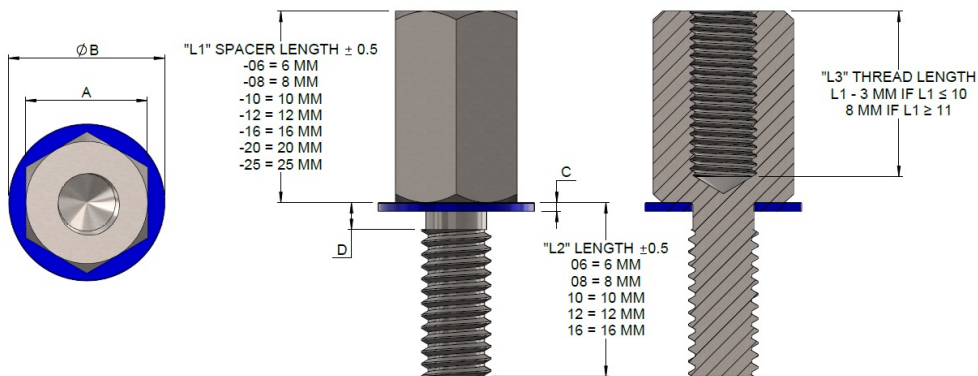
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washers Thk (2)	(1)
115-23(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	6.5/6.2	1.05	1.95
115-23(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	7.0/6.7	1.15	2.10
115-23(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	9.0/8.7	1.45	2.70
		(1) Distance before full thread starts		(2) Washers in compressed state		All dimensions in MM	
				Head Dimensions to ISO 4762		Rolled thread to BS 3643	

v.008



PART NUMBER CALL OUT



115-25 1 - 030 -10 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDER HEAD LENGTH (L2) IN MM
E.G. 06=6 MM

SPACER LENGTH (L1) IN MM
E.G. -10=10 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-25(X) = METRIC SERIES SPACER WITH PLAIN WASHER

PART NUMBER EXAMPLE:

115-251-030-1006 P1 = METRIC SEMS, PASSIVATED, M3 X 10 MM SPACER LENGTH, 6 MM UNDER HEAD LENGTH, WITH PATCH LOCK

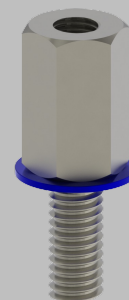
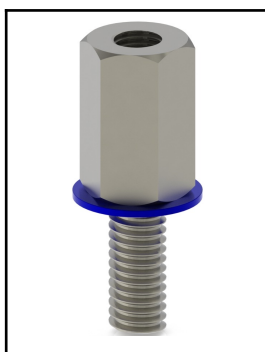
115-251-030-1006 = METRIC SEMS, PASSIVATED, M3 X 10 MM SPACER LENGTH, 6 MM UNDER HEAD LENGTH, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

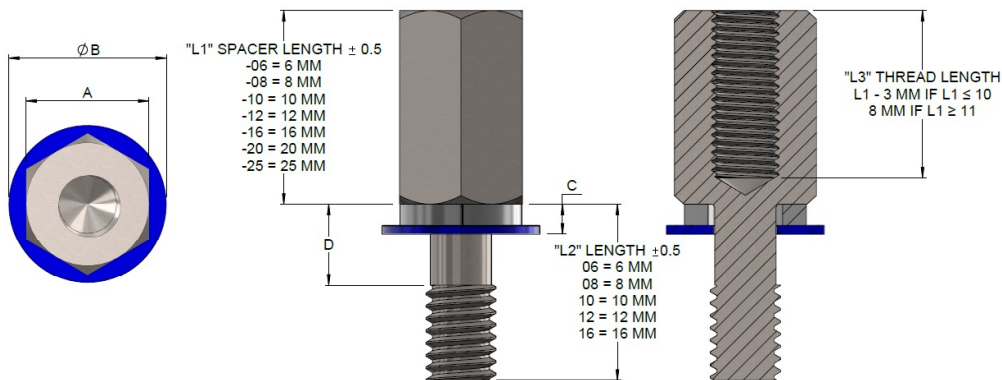
115-25(X) HEX SPACER
WITH PLAIN WASHER

PART NUMBER	METRIC SERIES				
	Thread	A	B	C	D
	Class 6g	Hex A/F	Washer Diam	Washer Thk	(1)
115-25(X)-025-(XXXX)	M2.5 X 0.45	5.0	6.5/6.2	0.5	1.2
115-25(X)-030-(XXXX)	M3 X 0.5	5.5	7.0/6.7	0.5	1.3
115-25(X)-040-(XXXX)	M4 X 0.7	7.0	9.0/8.7	0.5	1.6
115-25(X)-050-(XXXX)	M5 X 0.8	8.0	10.0/9.7	0.7	1.9
(1) Distance before full thread starts			All dimensions in MM		
Male and female threads identical			Rolled thread to BS 3643		





PART NUMBER CALL OUT



115-26 1 - 030 -10 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDER HEAD LENGTH (L2) IN MM
E.G. 06=6 MM

SPACER LENGTH (L1) IN MM
E.G. -10=10 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-26(X) = METRIC SERIES SPACER WITH PLAIN AND
LOCK WASHERS

PART NUMBER EXAMPLE:

115-261-030-1006 P1 = METRIC SEMS, PASSIVATED, M3 X 10 MM SPACER LENGTH, 6 MM UNDER HEAD LENGTH, WITH PATCH LOCK

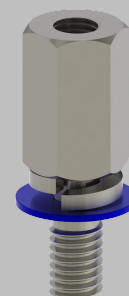
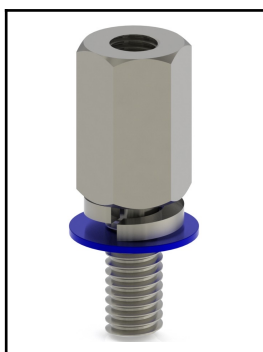
115-261-030-1006 = METRIC SEMS, PASSIVATED, M3 X 10 MM SPACER LENGTH, 6 MM UNDER HEAD LENGTH, NO PATCH LOCK

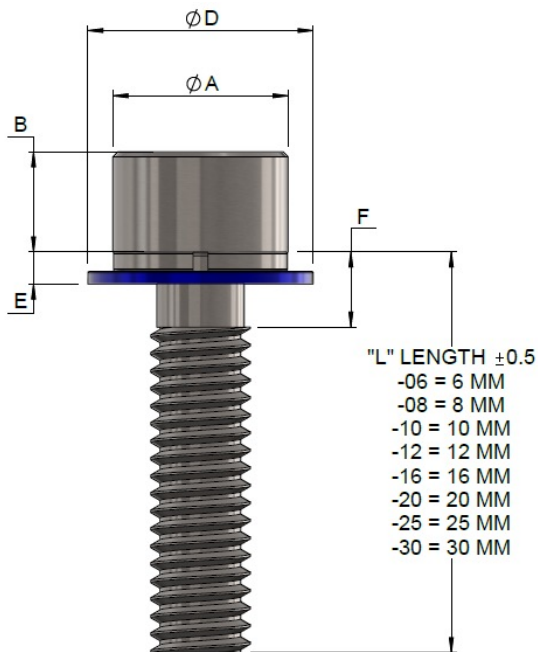
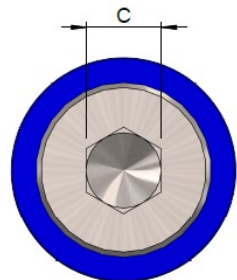
MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

115-26(X) HEX SPACER WITH
PLAIN AND LOCK WASHERS

PART NUMBER	METRIC SERIES				
	Thread	A	B	C	D
	Class 6g	Hex A/F	Washer Diam	Washers Thk (2)	(1)
115-26(X)-025-(XXXX)	M2.5 X 0.45	5.0	6.5/6.2	1.1	2.8
115-26(X)-030-(XXXX)	M3 X 0.5	5.5	7.0/6.7	1.5	3.8
115-26(X)-040-(XXXX)	M4 X 0.7	7.0	9.0/8.7	1.7	4.6
115-26(X)-050-(XXXX)	M5 X 0.8	8.0	10.0/9.7	2.2	5.6
(1) Distance before full thread starts			All dimensions in MM		
Male and female threads identical		(2) Washers in compressed state		Rolled thread to BS 3643	





PART NUMBER CALL OUT

115-30 1 - 025 - 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET [111-0001](#)
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-30(X) = METRIC SERIES WITH PLAIN WASHER AND LOCK WASHER DIN 6905

PART NUMBER EXAMPLE:

115-301-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

115-301-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

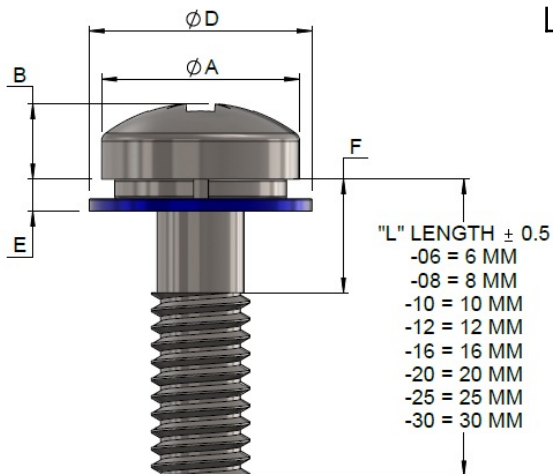
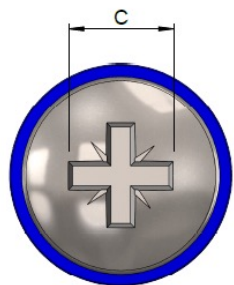
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

115-30(X) SOCKET CAP HEAD SEMS WITH PLAIN AND LOCK WASHERS

METRIC SERIES								
PART NUMBER	Thread	A	B	C	D	E	F	
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washers Thk (2)	(1)	
115-30(X)-020-(XX)	M2 X 0.4	3.8	2.0	1.5	5.0/4.7	1.05	2.2	
115-30(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	6.5/6.2	1.2	2.5	
115-30(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	7.0/6.7	1.2	2.6	
115-30(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	9.0/8.7	1.5	3.3	
115-30(X)-050-(XX)	M5 X 0.8	8.5	5.0	4.0	10.0/9.7	2.0	4.1	
115-30(X)-060-(XX)	M6 X 1.0	10.0	6.0	5.0	12.5/12.1	2.3	5.0	
115-30(X)-080-(XX)	M8 X 1.25	13.0	8.0	6.0	17.0/16.6	2.8	6.1	
115-30(X)-100-(XX)	M10 X 1.5	16.0	10.0	8.0	21.0/20.5	3.1	6.9	
		(1) Distance before full thread starts			(2) Washers in compressed state		All dimensions in MM	
		Head Dimensions to ISO 4762		Lock washer to DIN 6905		Rolled thread to BS 3643		

v.008





PART NUMBER CALL OUT

115-31 1 - 025 - 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-31(X) = METRIC SEMS WITH PLAIN WASHER AND LOCK WASHER DIN 6905

PART NUMBER EXAMPLE:

115-311-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

115-311-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

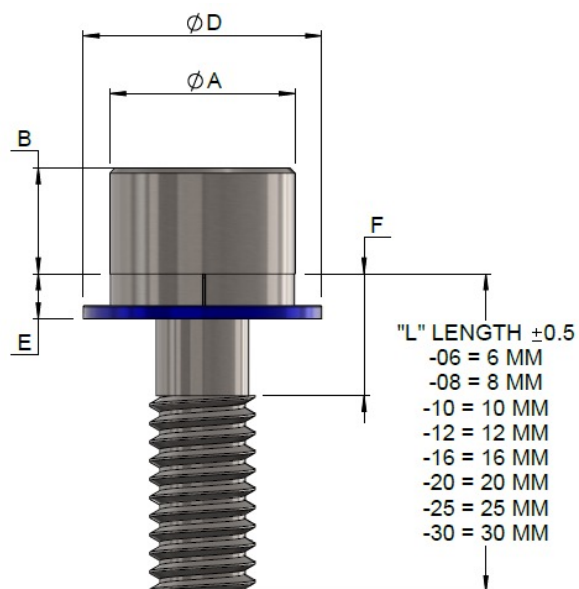
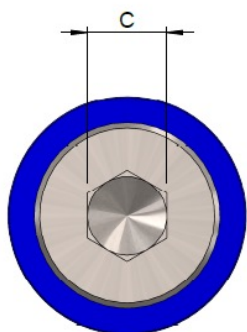
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

METRIC SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Drive Size	Washer Diam	Washers Thk (2)	(1)
115-31(X)-020-(XX)	M2 X 0.4	4.0	1.6	1	5.0/4.7	1.05	2.2
115-31(X)-025-(XX)	M2.5 X 0.45	5.0	2	1	6.5/6.2	1.2	2.5
115-31(X)-030-(XX)	M3 X 0.5	6.0	2.4	1	7.0/6.7	1.2	2.6
115-31(X)-040-(XX)	M4 X 0.7	8.0	3.1	2	9.0/8.7	1.5	3.3
115-31(X)-050-(XX)	M5 X 0.8	10.0	3.8	2	10.0/9.7	2.0	4.1
115-31(X)-060-(XX)	M6 X 1.0	12.0	4.6	3	12.5/12.1	2.3	5.0
115-31(X)-080-(XX)	M8 X 1.25	16.0	6.0	4	17.0/16.6	2.8	6.1
115-31(X)-100-(XX)	M10 X 1.5	20.0	7.5	4	21.0/20.5	3.1	6.9
(1) Distance before full thread starts		(2) Washers in compressed state			All dimensions in MM		
Head Dimensions to DIN 7985 TYPE Z		Lock washer to DIN 6905		Rolled thread to BS3643			

115-31(X) CROSS RECESS PAN HEAD SEMS WITH PLAIN AND LOCK WASHERS





PART NUMBER CALL OUT

115-40 1 - 025 - 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET 111-0001
 (LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
 SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
 E.G. -06=6 MM

THREAD CODE
 SEE TABLE

FINISH CODE
 0 = NATURAL
 1 = PASSIVATED
 2 = STAYBLACK

SEMS SERIES
 115-40(X) = METRIC SERIES WITH PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

115-401-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

115-401-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

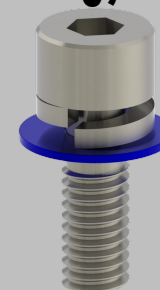
MATERIAL: A286 STAINLESS STEEL SCREW, 316 STAINLESS STEEL WASHERS

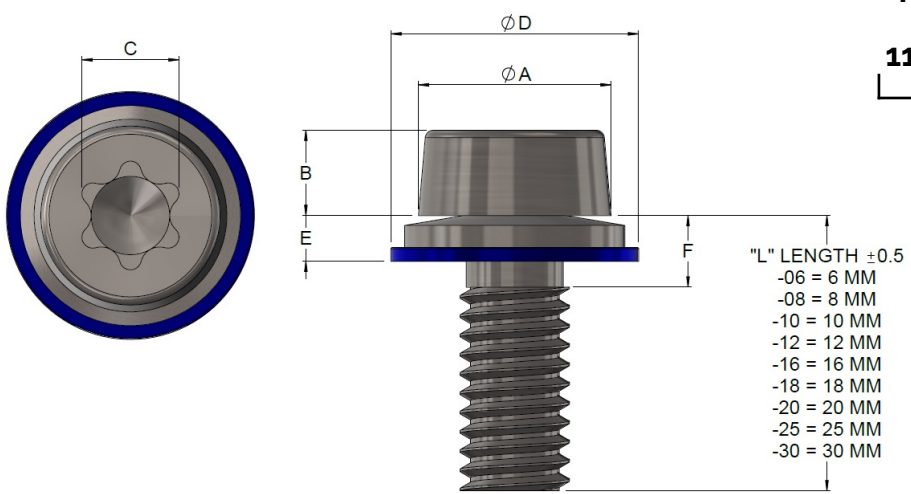
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

METRIC SERIES

PART NUMBER	Thread	A	B	C	D	E	F	
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washers Thk (2)	(1)	
115-40(X)-020-(XX)	M2 X 0.4	3.8	2.0	1.5	5.0/4.7	0.95	2.4	
115-40(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	6.5/6.2	1.1	2.8	
115-40(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	7.0/6.7	1.5	3.8	
115-40(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	9.0/8.7	1.7	4.6	
115-40(X)-050-(XX)	M5 X 0.8	8.5	5.0	4.0	10.0/9.7	2.2	5.6	
115-40(X)-060-(XX)	M6 X 1.0	10.0	6.0	5.0	12.5/12.1	2.2	5.9	
115-40(X)-080-(XX)	M8 X 1.25	13.0	8.0	6.0	17.0/16.6	3.0	7.8	
115-40(X)-100-(XX)	M10 X 1.5	16.0	10.0	8.0	21.0/20.5	3.2	9.4	
		(1) Distance before full thread starts			(2) Washers in compressed state		All dimensions in MM	
		Head Dimensions to ISO 4762				Rolled thread to BS 3643		

v.008





PART NUMBER CALL OUT

115-60 1 - 025 - 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET [111-0001](#)
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)

SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-60(X) = METRIC SEMS WITH PLAIN AND BELLEVILLE WASHERS

PART NUMBER EXAMPLE:

115-601-025-06 P1 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

115-601-025-06 = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

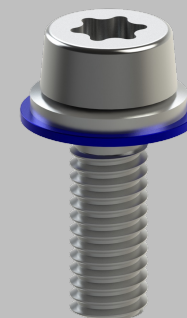
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

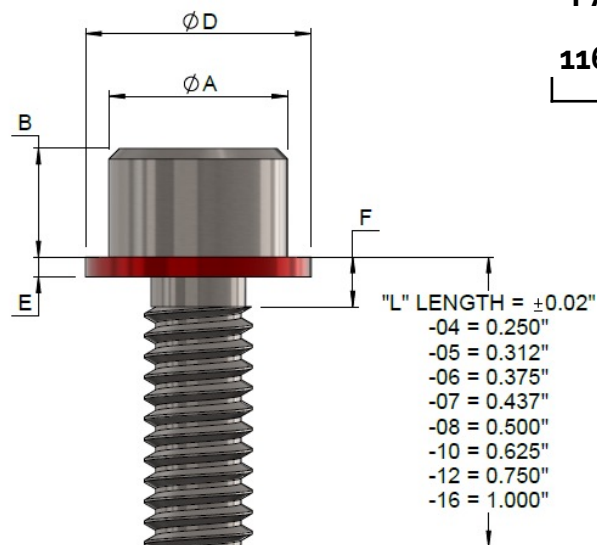
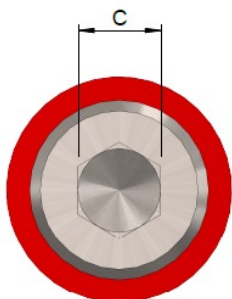
METRIC SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Socket Size	Washer Diam	Washers Thk (2)	(1)
115-60(X)-025-(XX)	M2.5 X 0.45	4.5	1.85	8	6.5/6.2	1.05	1.95
115-60(X)-030-(XX)	M3 X 0.5	5.5	2.40	10	7.0/6.7	1.15	2.10
115-60(X)-040-(XX)	M4 X 0.7	7.0	3.10	20	9.0/8.7	1.45	2.70
		(1) Distance before full thread starts		(2) Washers in compressed state		All dimensions in MM	
Head Dimensions to ISO 14580				Rolled thread to BS 3643			

v.008

115-60(X) HEXALOBULAR SOCKET CHEESE HEAD SEMS WITH PLAIN AND BELLEVILLE WASHERS





PART NUMBER CALL OUT

116-01 1 - 0256 - 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET [111-0001](#)
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN 1/16th
E.G. -06=0.375"

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
116-01(X) = INCH SERIES WITH PLAIN WASHER

PART NUMBER EXAMPLE:

116-011-0256-06 P1 = INCH SEMS, PASSIVATED, 2-56 UNC, 0.375" LONG, WITH PATCH LOCK

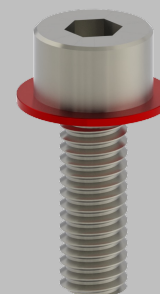
116-011-0256-06 = INCH SEMS, PASSIVATED, 2-56 UNC, 0.375" LONG, NO PATCH LOCK

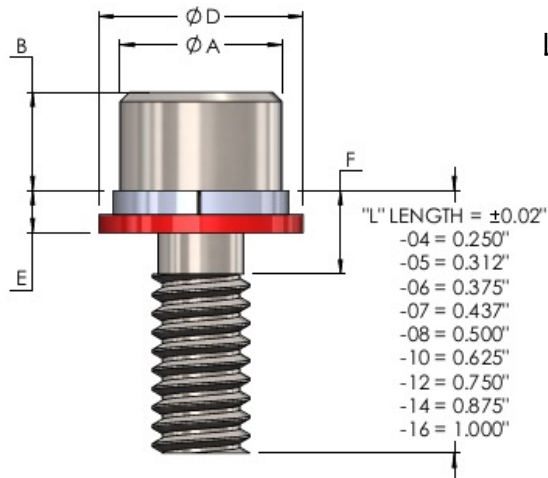
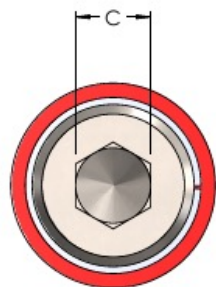
MATERIAL: SCREW 316 (A4-70) S. STEEL, WASHER 300 SERIES S. STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

INCH SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 2A	Head Diam	Head Ht	Socket Size	Washer Diam	Washer Thk	(1)
116-01(X)-0256-(XX)	2-56 UNC	0.140	0.086	1/16	0.185/0.180	0.020	0.047
116-01(X)-0440-(XX)	4-40 UNC	0.183	0.112	5/64	0.244/0.236	0.018	0.056
116-01(X)-0632-(XX)	6-32 UNC	0.226	0.138	3/32	0.295/0.290	0.018	0.065
116-01(X)-0832-(XX)	8-32 UNC	0.270	0.164	1/8	0.341/0.336	0.028	0.075
116-01(X)-1032-(XX)	10-32 UNF	0.312	0.190	5/32	0.391/0.386	0.028	0.075
116-01(X)-0428-(XX)	1/4-28 UNF	0.375	0.250	3/16	0.562/0.557	0.036	0.090
				All dimensions in Inches			
(1) Distance before full thread starts							
Head Dimensions to BS 2470				Rolled thread to BS 1580			





PART NUMBER CALL OUT

116-02 1 - 0256 - 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN 1/16th
E.G. -06=0.375"

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
116-02(X) = INCH SEMS WITH PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

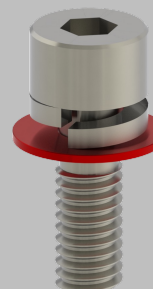
116-021-0256-06 P1 = INCH SEMS, PASSIVATED, 2-56 UNC, 0.375" LONG, WITH PATCH LOCK

116-021-0256-06 = INCH SEMS, PASSIVATED, 2-56 UNC, 0.375" LONG, NO PATCH LOCK

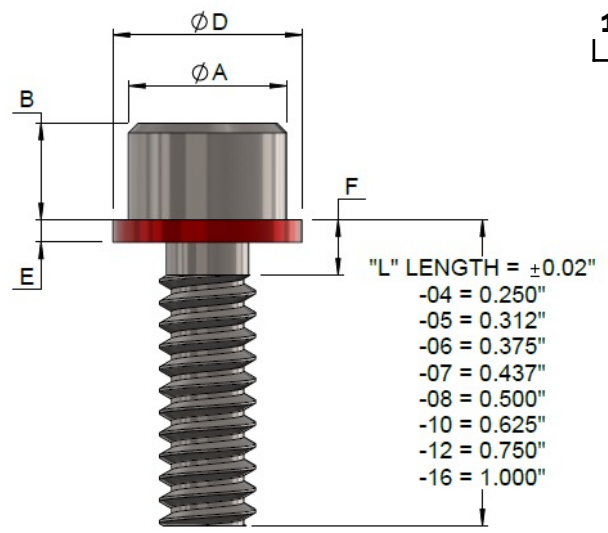
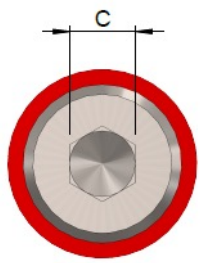
MATERIAL: SCREW 316 (A4-70) S. STEEL, WASHERS 300 SERIES S. STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

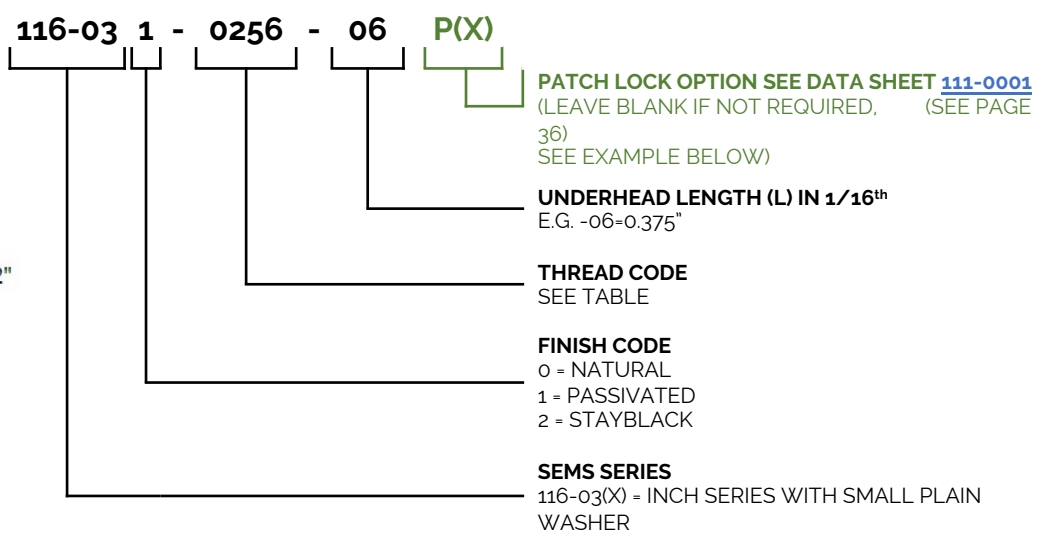
**116-02(X) SOCKET CAP HEAD SEMS
WITH PLAIN AND LOCK WASHERS**



INCH SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 2A	Head Diam	Head Ht	Socket Size	Washer Diam	Washers Thk (2)	(1)
116-02(X)-0256-(XX)	2-56 UNC	0.140	0.086	1/16	0.185/0.180	0.040	0.087
116-02(X)-0440-(XX)	4-40 UNC	0.183	0.112	5/64	0.244/0.236	0.043	0.106
116-02(X)-0632-(XX)	6-32 UNC	0.226	0.138	3/32	0.295/0.290	0.049	0.127
116-02(X)-0832-(XX)	8-32 UNC	0.270	0.164	1/8	0.341/0.336	0.068	0.155
116-02(X)-1032-(XX)	10-32 UNF	0.312	0.190	5/32	0.391/0.386	0.075	0.169
116-02(X)-0428-(XX)	1/4-28 UNF	0.375	0.250	3/16	0.562/0.557	0.098	0.214
(1) Distance before full thread starts		(2) Washers in compressed state			All dimensions in Inches		
Head Dimensions to BS 2470				Rolled thread to BS 1580			



PART NUMBER CALL OUT

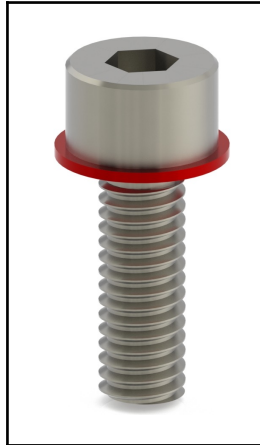


PART NUMBER EXAMPLE:

116-031-0256-06 P1 = INCH SEMS, PASSIVATED, 2-56 UNC, 0.375" LONG, WITH PATCH LOCK

116-031-0256-06 = INCH SEMS, PASSIVATED, 2-56 UNC, 0.375" LONG, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT



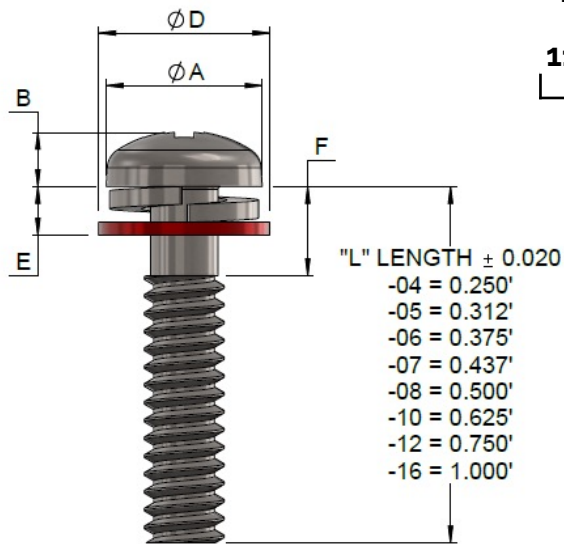
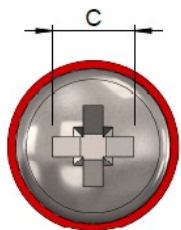
INCH SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 2A	Head Diam	Head Ht	Socket Size	Washer Diam	Washer Thk	(1)
116-03(X)-0256-(XX)	2-56 UNC	0.140	0.086	1/16	0.164/0.144	0.016	0.043
116-03(X)-0440-(XX)	4-40 UNC	0.183	0.112	5/64	0.224/0.204	0.020	0.058
116-03(X)-0632-(XX)	6-32 UNC	0.226	0.138	3/32	0.282/0.262	0.032	0.079
116-03(X)-0832-(XX)	8-32 UNC	0.270	0.164	1/8	0.319/0.299	0.032	0.079
116-03(X)-1032-(XX)	10-32 UNF	0.312	0.190	5/32	0.369/0.349	0.063	0.110
116-03(X)-0428-(XX)	1/4-28 UNF	0.375	0.250	3/16	0.483/0.463	0.063	0.117

(1) Distance before full thread starts. For all lengths over -10 min usable thread length will be 0.625", 'F' DOES NOT APPLY

Head Dimensions to BS 2470

Rolled thread to BS 1580





PART NUMBER CALL OUT

116-08 1 - 1032 - 12 P(X)

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)

SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN 1/16TH
E.G. -12=0.750"

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
116-08(X) = INCH SEMS WITH PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

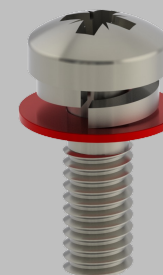
116-081-1032-12 P1 = INCH SEMS, PASSIVATED, 10-32 UNF, 0.750" LONG, WITH PATCH LOCK

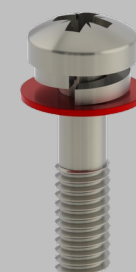
116-081-1032-12 = INCH SEMS, PASSIVATED, 10-32 UNF, 0.750" LONG, NO PATCH LOCK

MATERIAL: SCREW 316 (A4-70) S. STEEL, WASHERS 300 SERIES S. STEEL
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

PART NUMBER	INCH SERIES						
	Thread	A	B	C	D	E	F
	Class 2A	Head Diam	Head Ht	Driver Size	Washer Diam	Washers Thk (2)	(1)
116-08(X)-0256-(XX)	2-56 UNC	0.167	0.062	1	0.185/0.180	0.040	0.087
116-08(X)-0440-(XX)	4-40 UNC	0.219	0.080	1	0.244/0.236	0.043	0.106
116-08(X)-0632-(XX)	6-32 UNC	0.270	0.097	2	0.295/0.290	0.049	0.127
116-08(X)-0832-(XX)	8-32 UNC	0.322	0.115	2	0.341/ 0.336	0.068	0.155
116-08(X)-1032-(XX)	10-32 UNF	0.373	0.133	2	0.391/0.386	0.075	0.169
116-08(X)-0428-(XX)	1/4-28 UNF	0.492	0.175	3	0.562/0.557	0.098	0.214
(1) Distance before full thread starts				(2) Washers in compressed state		All dimensions in Inches	
Head Dimensions to BS 1981 TYPE Z				Rolled thread to BS 1580			

v.008





PART NUMBER CALL OUT

116-09 1 - 0440 -10 06 P(X)

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

THREAD LENGTH (L1) IN 1/16 INCH

E.G. 06=0.375"

UNDERHEAD LENGTH (L) IN 1/16 INCH

E.G. -10=0.625"

THREAD CODE

SEE TABLE

FINISH CODE

0 = NATURAL

1 = PASSIVATED

2 = STAYBLACK

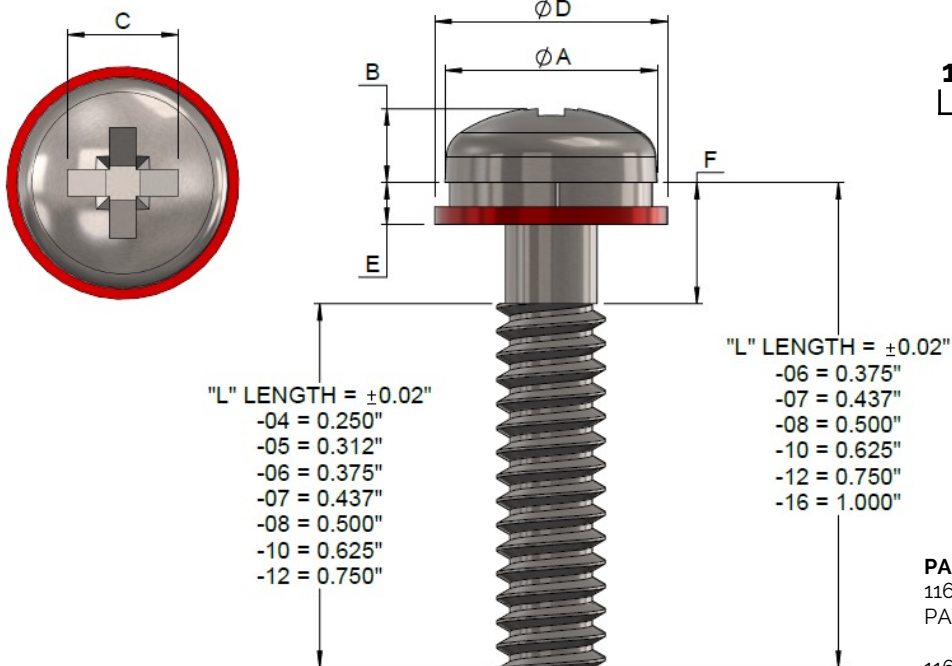
SEMS SERIES

116-09(X) = INCH SERIES WITH PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

116-091-0440-1006 P1 = INCH SEMS, PASSIVATED, 4-40 UNC, 0.625" LONG, 0.375" OF THREAD, WITH PATCH LOCK

116-091-0440-1006 = INCH SEMS, PASSIVATED, 4-40 UNC, 0.625" LONG, 0.375" OF THREAD, NO PATCH LOCK

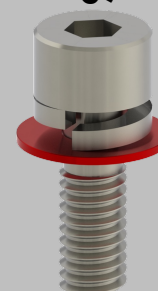


MATERIAL: SCREW 316 (A4-70) S. STEEL, WASHERS 300 SERIES S. STEEL

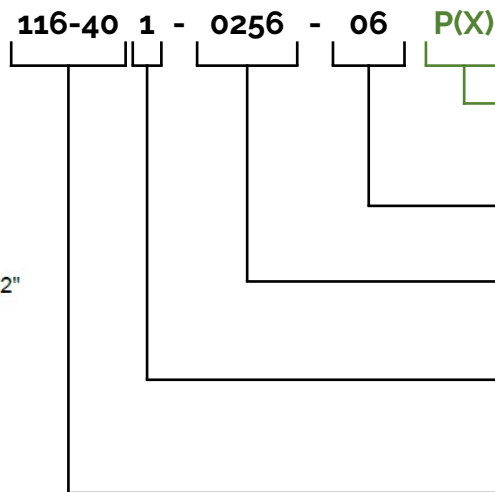
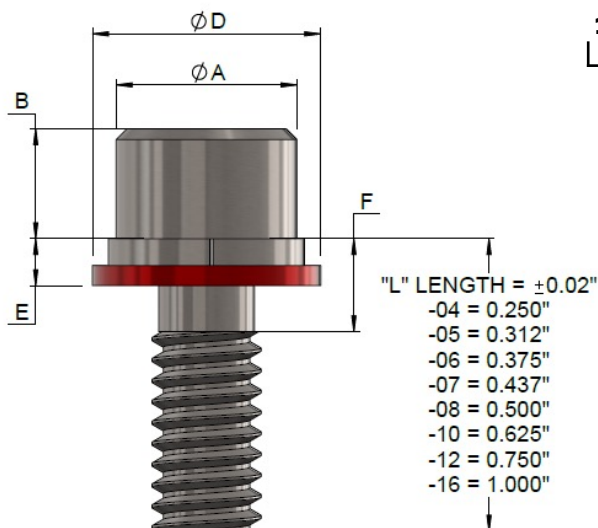
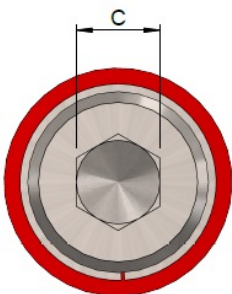
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

INCH SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 2A	Head Diam	Head Ht	Driver Size	Washer Diam	Washers Thk (2)	(1)
116-09(X)-0256-(XXXX)	2-56 UNC	0.167	0.062	1	0.185/0.180	0.040	0.125
116-09(X)-0440-(XXXX)	4-40 UNC	0.219	0.080	1	0.244/0.236	0.043	0.125
116-09(X)-0632-(XXXX)	6-32 UNC	0.270	0.097	2	0.295/0.290	0.049	0.125
116-09(X)-0832-(XXXX)	8-32 UNC	0.322	0.115	2	0.341/ 0.336	0.068	0.160
116-09(X)-1032-(XXXX)	10-32 UNF	0.373	0.133	2	0.391/0.386	0.075	0.170
116-09(X)-0428-(XXXX)	1/4-28 UNF	0.492	0.175	3	0.562/0.557	0.098	0.215
(1) Minimum difference between 'L' and 'L1'		(2) Washers in compressed state			All dimensions in Inches		
Head Dimensions to BS 1981 TYPE Z				Rolled thread to BS 1580			



PART NUMBER CALL OUT



PATCH LOCK OPTION SEE DATA SHEET [111-0001](#)
(LEAVE BLANK IF NOT REQUIRED, (SEE PAGE 36)
SEE EXAMPLE BELOW)

UNDERHEAD LENGTH (L) IN 1/16th
E.G. -06=0.375"

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
116-40(X) = INCH SERIES WITH PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

116-401-0256-06 P1 = INCH SEMS, PASSIVATED, 2-56 UNC, 0.375" LONG, WITH PATCH LOCK

116-401-0256-06 = INCH SEMS, PASSIVATED, 2-56 UNC, 0.375" LONG, NO PATCH LOCK

MATERIAL: SCREW A286 S. STEEL, WASHERS 300 SERIES S. STEEL
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

INCH SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 2A	Head Diam	Head Ht	Socket Size	Washer Diam	Washers Thk (2)	(1)
116-40(X)-0256-(XX)	2-56 UNC	0.140	0.086	1/16	0.185/0.180	0.040	0.087
116-40(X)-0440-(XX)	4-40 UNC	0.183	0.112	5/64	0.244/0.236	0.043	0.106
116-40(X)-0632-(XX)	6-32 UNC	0.226	0.138	3/32	0.295/0.290	0.049	0.127
116-40(X)-0832-(XX)	8-32 UNC	0.270	0.164	1/8	0.341/0.336	0.068	0.155
116-40(X)-1032-(XX)	10-32 UNF	0.312	0.190	5/32	0.391/0.386	0.075	0.169
116-40(X)-0428-(XX)	1/4-28 UNF	0.375	0.250	3/16	0.562/0.557	0.098	0.214
		(1) Distance before full thread starts		(2) Washers in compressed state		All dimensions in Inches	
Head Dimensions to BS 2470				Rolled thread to BS 1580			

PATCH LOCK DATA SHEET

PATCH LOCK CODE	COMMERCIAL NAME	DESCRIPTION	FEATURES	EQUIVALENT	LIMITATIONS
P1	VIBRA-STOP	METHACRYLIC RESINS AND COPOLYMER COLOUR: RED REUSABLE: 5 TIMES OPERATING TEMP: -50°C TO 75°C SHELF LIFE: INDEFINITE WHEN STORED OUT OF DIRECT SUNLIGHT	- MINIMISES GALLING AND STRIPPING OF FINE THREADS - RELIABLY SEALS AND LOCKS PARTS IN PLACE DURING EXTREME VIBRATION. - APPLIED WITHOUT HEAT SO IS SYMPATHETIC TO METALS AND SURFACE FINISHES	- BS 7715 - NAS 1283 - DIN 267 PART 28 - MIL-F-18240	- MIN/MAX DIAMETER : M1.6/M5 - MIN LENGTH : 4MM CSK, 3MM OTHERS - MAX LENGTH : 20MM BOWL FEED, 30MM MANUAL
P2	ANU-LOK 180	NYLON 11 COLOUR: YELLOW REUSABLE: 5 TIMES OPERATING TEMP: -50°C TO 120°C SHELF LIFE: INDEFINITE	- APPLIED ON HALF THREAD DIAMETER (180°) - RESILIENT COATING WITHSTANDING HARSH ENVIRONMENTS - RELIABLY LOCKS PARTS IN PLACE DURING EXTREME VIBRATION - CAN BE MODIFIED TO MEET SPECIFICATIONS AND ANY POSITIONS	- BS 7715 - NAS 1283 - DIN 267 PART 28 - MIL-F-18240	- MIN/MAX DIAMETER : M3/M42 - MIN LENGTH : 4MM STEEL, 6MM STAINLESS OR BRASS OR CSK - MAX LENGTH : NO LIMIT
P3	PRECOTE 05	ACRYLATE COLOUR: WHITE REUSABLE: NO OPERATING TEMP: -60°C TO 160°C (DEPENDING ON FLUID) SHELF LIFE: FOUR YEARS AT ROOM TEMP	- SEALING IMMEDIATELY AFTER ASSEMBLY (AIR, MOTOR OIL, GEAR OIL, GLYCOL/WASHER 50/50, TAP WATER, BRAKE FLUID, FUEL, DIESEL) - CONTROLLED THREAD FRICTION VALUES WHEN ASSEMBLED - FORMS A DRY TO THE TOUCH COATING - GOOD THERMAL AND CHEMICAL RESISTANCE	- LOCTITE 503, 513, 516, 517	- MIN/MAX DIAMETER : M3/M12 - MIN LENGTH : 6MM MAGNETIC, 8MM OTHER, CSK TBA - MAX LENGTH : NO LIMIT
P4	PRECOTE 30/30-8	ACRYLATE COLOUR: YELLOW REUSABLE: NO OPERATING TEMP: -60°C TO 150°C SHELF LIFE: FOUR YEARS AT ROOM TEMP	- MEDIUM STRENGTH WITH GOOD CHEMICAL RESISTANCE - DRY AND TACK-FREE FILM. PHYSIOLOGICALLY HARMLESS - THREAD FRICTION VALUES ARE NOT ALTERED - PREVENTS FRETTING ON ASSEMBLY - SEALS AGAINST PRESSURE UP TO 250 BAR (3600 PSI)	- LOCTITE 202, 203, 218, 222, 241, 248, 572, 573, 2020	- MIN/MAX DIAMETER : M3/M12 - MIN LENGTH : 6MM MAGNETIC, 8MM OTHER, CSK TBA - MAX LENGTH : NO LIMIT
P5	PRECOTE 85/85-8	ACRYLATE COLOUR: TURQUOISE REUSABLE: NO OPERATING TEMP: -50°C TO 170°C SHELF LIFE: FOUR YEARS AT ROOM TEMP	- HIGH STRENGTH WITH GOOD CHEMICAL RESISTANCE - DRY AND TACK-FREE FILM. PHYSIOLOGICALLY HARMLESS - SEALS AGAINST PRESSURE UP TO 400 BAR (5760 PSI) - RETAINS TORQUE PERFORMANCE EVEN AT +170°C - PREVENTS CORROSION IN THE THREAD CONNECTION - LOW THREAD FRICTION	- LOCTITE 200, 2010, 2015, 2045, 205, 242, 243, 262, 270, 272, 2701, 271, 268	- MIN/MAX DIAMETER : M3/M12 - MIN LENGTH : 6MM MAGNETIC, 8MM OTHER, CSK TBA - MAX LENGTH : NO LIMIT

SHEET 1 OF 2

111-0001 (PATCH LOCK)

PATCH LOCK DATA SHEET

PATCH LOCK CODE	COMMERCIAL NAME	DESCRIPTION	FEATURES	EQUIVALENT	LIMITATIONS
P6	PRECOTE 80	3M ADHESIVE COLOUR: BLUE REUSABLE: REUSE PERFORMANCE VARIES BY CUSTOMER APPLICATION OPERATING TEMP: 116°C MAX STORAGE: 4°C TO 38°C ONE YEAR	- MICROENCAPSULATED - ROOM TEMP CURING ADHESIVE - ENHANCE ANCHORAGE OF THREADED FASTENERS	N/A	- MIN/MAX DIAMETER : M3/M16 - MIN LENGTH : 6MM MAGNETIC, 8MM OTHER, CSK TBA - MAX LENGTH : NO LIMIT
P7	3M 2510	3M ADHESIVE COLOUR: ORANGE REUSABLE: REUSE PERFORMANCE VARIES BY CUSTOMER APPLICATION OPERATING TEMP: 149°C MAX (CONTINUOUS), 204°C MAX (INTERMITENT) STORAGE: 4°C TO 38°C ONE YEAR	- MICROENCAPSULATED - ROOM TEMP CURING ADHESIVE - ENHANCE ANCHORAGE OF THREADED FASTENERS - HIGH TEMPERATURE APPLICATIONS	N/A	- MIN/MAX DIAMETER : M3/NO LIMIT - MIN LENGTH : 6MM MAGNETIC, 8MM OTHER, CSK TBA - MAX LENGTH : NO LIMIT
P8	DRI-SEAL 506	LOCTITE 506 COLOUR: CREAMY BLUE REUSABLE: NO OPERATING TEMP: 150°C MAX STORAGE: 8°C TO 21°C FIVE YEARS	- LOCTITE 506 IS A SAFE, NON-TOXIC AQUEOUS THREAD SEALANT CONTAINING MINERAL FILLERS AND LUBRICANT - NON-HARDENING AND DESIGNED FOR INSTANT SEALING OF STRAIGHT AND TAPERED THREADS	N/A	- MIN/MAX DIAMETER : M3/NO LIMIT - MIN LENGTH : NO LIMIT - MAX LENGTH : NO LIMIT
P9	ANU-SEAL	SYNTHETIC MULTIFUNCTIONAL POLYMER COLOUR: YELLOW REUSABLE: NO OPERATING TEMP: -45°C TO 200°C SHELF LIFE: FOUR YEARS IN DRY CONDITIONS	- FILLS GAPS - PREVENTS LOOSENING - REDUCES VIBRATION - PREVENTS CORROSION BETWEEN CLAMPED METALS - SEALING PRESSURE > 150 BAR	- BS 7715 - NAS 1283 - DIN 267 PART 28 - MIL-F-18240	N/A
P10	NYTEMP	POLYMER COLOUR: ORANGE REUSABLE: SEVERAL TIMES OPERATING TEMP: -50°C TO 232°C SHELF LIFE: INDEFINITE	- EXCEPTIONAL VIBRATION RESISTANCE (MEETS MIL-STD 1312-REV 7) - PROVIDES A SEAL FOR THREADS (GAS AND FLUID) - RESISTANT TO LUBRICANTS, FUEL, HYDRAULIC FLUIDS & MOST COMMERCIAL SOLVENTS - MEETS NASA LOW OUTGASSING REQUIREMENTS - REDUCES FOD AND CREEP IN AEROSPACE APPLICATIONS	N/A	N/A

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