

## Hex Serrated Flange Screws

### Maximum locking force for a more secure assembly.



Hex Serrated Flange Screws offer a locking head design with built-in serrations on the bearing face of the flange. These serrations allow the screw to lock onto its installation surface providing excellent resistance to loosening due to vibration. Earnest Machine offers Hex Serrated Flange Screws in both standard and large flange diameter styles.



#### PRODUCT ATTRIBUTES

- Built-in serrations for maximum locking force
- Replaces traditional bolt and lock washer applications
- Available in standard & large flange diameter styles
- Sizes range from #6 to 5/8" and M6 to M12

#### MARKETS FOR HEX SERRATED FLANGE SCREWS

- Agriculture Equipment
- Commercial Lawn Equipment
- Robotics & Automation
- Food Processing Equipment
- Automotive

#### THIS PRODUCT IS OFTEN CALLED...

- Whiz Lock Screw
- Locking Head Screw
- Hex Washer Head Locking Screw

#### AVAILABLE VALUE ADDED SERVICES

- Bulk, full & broken case quantities
- Secondary & rework services available
- Custom packaging services
- Custom plating

#### ADDITIONAL HEX FLANGE PRODUCT WE SUPPLY

- Hex Flange Lag Screws
- Hex Flange Screws
- Metric & JIS Hex Flange Screws
- Metric Stainless Steel Hex Flange Screws
- Hex Flange Nuts
- Metric & JIS Hex Flange Nuts
- Metric Stainless Steel Hex Flange Nuts
- Hex Serrated Flange Lock Nuts
- Large Flange Hex Serrated Flange Lock Nuts
- Stainless Steel Hex Serrated Flange Lock Nuts
- Metric & JIS Hex Serrated Flange Lock Nuts
- All Metal Hex Flange Lock Nuts
- Metric All Metal Hex Flange Lock Nuts
- Nylon Insert Hex Flange Lock Nuts
- Metric Nylon Insert Flange Lock Nuts

BACKED BY THE EARNEST

**Service**  
GUARANTEE

**The right part.  
The right quantity.  
On-time.  
Everytime.**

## GRADE 8 HEX SERRATED FLANGE SCREW

Hex Serrated Flange Screws are manufactured in accordance with the latest revision of the following industry standards:

- IFI - 111** Dimensional Requirements (with additions of serrations)
- SAE J429** Material and Physical Properties
- ASME B1.1** Thread Requirements
- ASTM F788** Surface Discontinuities
- ASME B18.18** Inspection and Quality Assurance

### THREADS

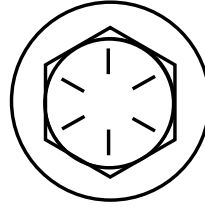
Threads made to requirements of ASME B1.1 Unified Threads (UNC) Class 2A  
Thread acceptance per ASME B1.3, System 21

### PLATING

- Plain
- Phos and Oil
- Zinc Clear (RoHS compliant Cr3+)
- Zinc Yellow

## MATERIAL AND PHYSICAL PROPERTIES

### Grade 8



### Chemical Composition:

CARBON (C)		PHOSPHORUS (P)	SULFUR (S)
Max	Min	Max	Max
0.55	0.25	0.025	0.025

### Alloy

#### SAE J429 GRADE 8 (CONTAINING ONE OR MORE OF THE FOLLOWING)

Mn, Cr, Mo, Ni, V, B

### Hardness

#### GRADE 8

HRC 33/39

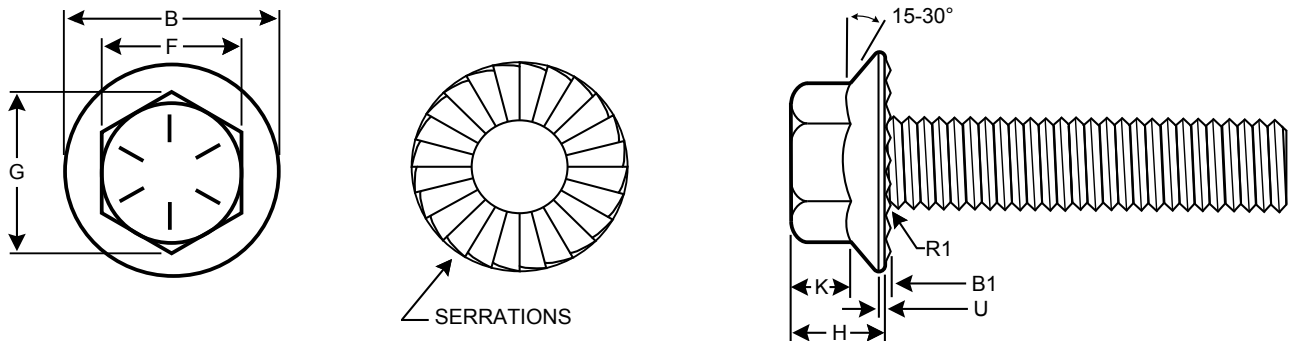
### Tensile Strength

#### GRADE 8

150,000 psi min

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## DIMENSIONS FOR GRADE 8 HEX SERRATED FLANGE SCREW



SIZE	WIDTH ACROSS FLATS (F)		WIDTH ACROSS CORNERS (G)		FLANGE DIAMETER (B)	HEAD HEIGHT (S)	FLANGE THICKNESS (U)	WRENCH HEIGHT (K)	SERRATION DEPTH (B1)	FILLET (R1)
	MAX	MIN	MAX	MIN	MAX	MAX	MIN	MIN	MIN	MIN
1/4	0.375	0.367	0.433	0.409	0.56	0.28	0.04	0.17	0.011	0.015
5/16	0.500	0.489	0.577	0.548	0.68	0.32	0.05	0.21	0.013	0.015
3/8	0.562	0.551	0.650	0.618	0.81	0.39	0.06	0.25	0.015	0.015
1/2	.750	.736	.866	.825	1.07	.51	.08	.34	.017	.015

## CASE HARDENED 120M & GRADE 5 HEX SERRATED FLANGE SCREW

Hex Serrated Flange Screws are manufactured in accordance with the latest revision of the following industry standards:

- IFI-111** Dimensional Requirements (with addition of serrations)
- ASME B18.6.3** Dimensional Requirements for Machine Screw Sizes
- SAE J429** Material and Physical Properties
- SAE J933** Case Hardening
- ASME B1.1** Thread Requirements
- ASTM F788** Surface Discontinuities
- ASTM B18.18** Inspection and Quality Assurance

### THREADS

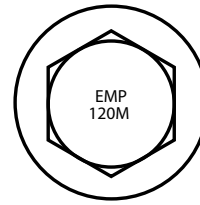
Threads made to requirements of ASME B1.1 Unified Threads (UNC and UNF) Class 2A  
Thread acceptance per ASME B1.3, System 21

### PLATING

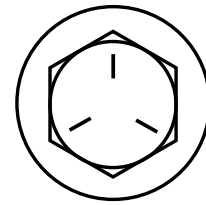
CASE HARDENED 120M	GRADE 5
n/a	Phos and Oil
Zinc Clear (RoHS compliant Cr3+)	Zinc Clear (RoHS compliant Cr3+)
Zinc Yellow	Zinc Yellow
n/a	Zinc Black (RoHS compliant Cr3+)

## MATERIAL AND PHYSICAL PROPERTIES

### Case Hardened 120M



### Grade 5



### Chemical Composition:

STYLE	CARBON (C)		PHOSPHORUS (P)	SULFUR (S)	BORON (B)
	Max	Min	Max	Max	Max
120M	0.55	0.15	0.025	0.025	.003
5	0.55	0.15	0.025	0.025	.003

### Hardness

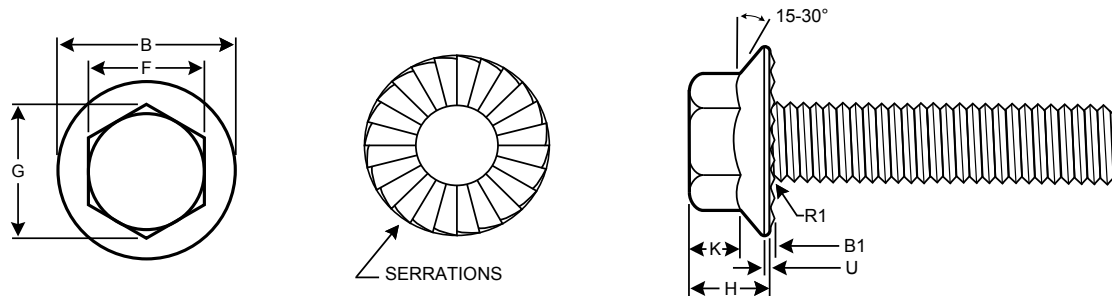
STYLE	CORE	SURFACE
120M	HRC 25/35	R15N 79 min
5	HRC 25/34	n/a

### Tensile Strength

120M	GRADE 5
120,000 psi min	120,000 psi min

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## DIMENSIONS FOR CASE HARDENED 120M & GRADE 5 HEX SERRATED FLANGE SCREW



SIZE	SIZE	WIDTH ACROSS FLATS (F)		WIDTH ACROSS CORNERS (G)		FLANGE DIAMETER (B)	HEAD HEIGHT (S)	FLANGE THICKNESS (U)	WRENCH HEIGHT (K)	SERRATION DEPTH (B1)	FILLET (R1)
		MAX	MIN	MAX	MIN						
#6	120M & 5	0.250	0.244	0.297	0.272	0.350	0.154	0.027	0.090	0.006	0.011
#8	120M & 5	0.250	0.244	0.297	0.272	0.374	0.181	0.027	0.114	0.006	0.011
#10	120M & 5	0.312	0.305	0.368	0.340	0.454	0.209	0.031	0.134	0.009	0.011
1/4	120M & 5	0.375	0.367	0.433	0.409	0.56	0.28	0.04	0.17	0.011	0.015
5/16	120M & 5	0.500	0.489	0.577	0.548	0.68	0.32	0.05	0.21	0.013	0.015
3/8	120M & 5	0.562	0.551	0.650	0.618	0.81	0.39	0.06	0.25	0.015	0.015
7/16	120M & 5	0.625	0.612	0.722	0.685	0.93	0.46	0.07	0.30	0.018	0.015
1/2	120M & 5	0.750	0.736	0.866	0.825	1.07	0.51	0.08	0.34	0.019	0.015
5/8	5	0.937	0.922	1.083	1.034	1.33	0.62	0.10	0.42	0.020	0.020

## GRADE 5 LARGE FLANGE HEX SERRATED FLANGE SCREW

Hex Serrated Flange Screws are manufactured in accordance with the latest revision of the following industry standards:

- IFI-111** Dimensional Requirements  
(with addition of serrations)
- SAE J429** Material and Physical Properties
- ASME B1.1** Thread Requirements
- ASTM F788** Surface Discontinuities
- ASME 18.18** Inspection and Quality Assurance

### THREADS

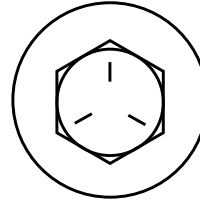
Threads are made to the requirements of ASME B1.1 Unified Threads (UNC) Class 2A  
Thread acceptance per ASME B1.3, System 21

### PLATING

Zinc Clear (RoHS compliant Cr3+)  
Zinc Yellow

## MATERIAL AND PHYSICAL PROPERTIES

### Grade 5 Large Flange



### Chemical Composition:

CARBON (C)		PHOSPHORUS (P)	SULFUR (S)
Max	Min	Max	Max
0.55	0.15	0.025	0.003

### Hardness

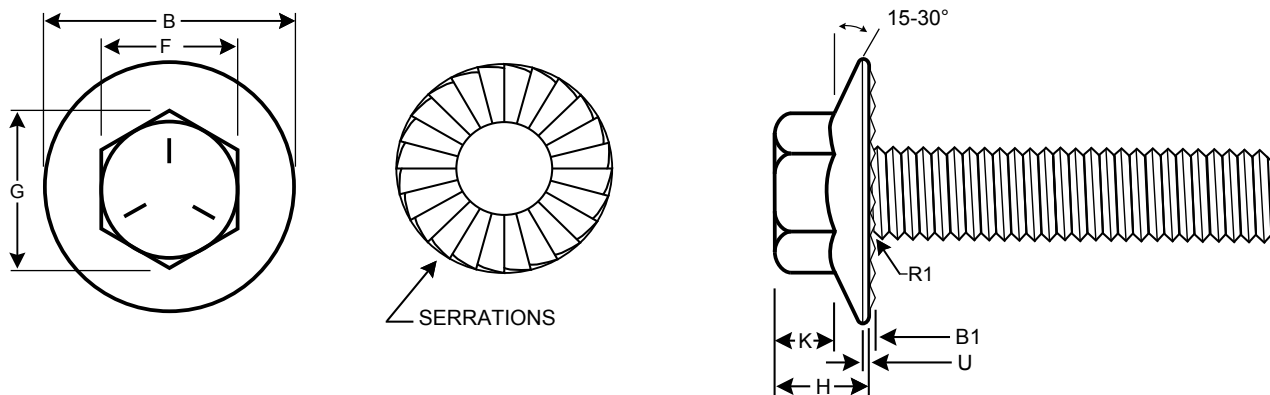
GRADE 5
HRC 25/34

### Tensile Strength

GRADE 5
120,000 psi min

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## DIMENSIONS FOR GRADE 5 LARGE FLANGE HEX SERRATED FLANGE SCREW



SIZE	WIDTH ACROSS FLATS (F)		WIDTH ACROSS CORNERS (G)		FLANGE DIAMETER (B)	HEAD HEIGHT (S)	FLANGE THICKNESS (U)	WRENCH HEIGHT (K)	SERRATION DEPTH (B1)	FILLET (R1)
	MAX	MIN	MAX	MIN	MAX	MAX	MIN	MIN	MIN	MIN
1/4	0.375	0.367	0.433	0.409	0.630	0.28	0.04	0.17	0.011	0.015
5/16	0.500	0.489	0.577	0.548	0.820	0.32	0.05	0.21	0.013	0.015
3/8	0.562	0.551	0.650	0.618	0.915	0.39	0.06	0.25	0.015	0.015

## 18-8 STAINLESS STEEL HEX SERRATED FLANGE SCREW

Hex Serrated Flange Screws are manufactured in accordance with the latest revision of the following industry standards:

- IFI-111** Dimensional Requirements  
(with addition of serrations)
- ASTM F593C** Material and Physical Properties
- ASME B1.1** Thread Requirements
- ASTM F788** Surface Discontinuities
- ASME 18.18** Inspection and Quality Assurance

### THREADS

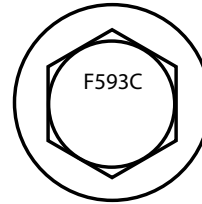
Threads are made to the requirements of ASME B1.1 Unified Threads (UNC) Class 2A  
Thread acceptance per ASME B1.3, System 21

### PLATING

Plain (Passivated)

## MATERIAL AND PHYSICAL PROPERTIES

### 18-8 Stainless Steel



### Chemical Composition:

CARBON (C)	MANGANESE (Mn)	PHOSPHOROUS (P)	SULFUR (S)	SILICON (Si)	CHROMIUM (Cr)	NICKEL (Ni)
Max	Max	Max	Max	Max	Max	Max
0.08	2.00	0.045	0.030	1.0	17.0/20.0	8.0/10.0

### Hardness

#### 18/8 SS

HRB 95 TO HRC 32

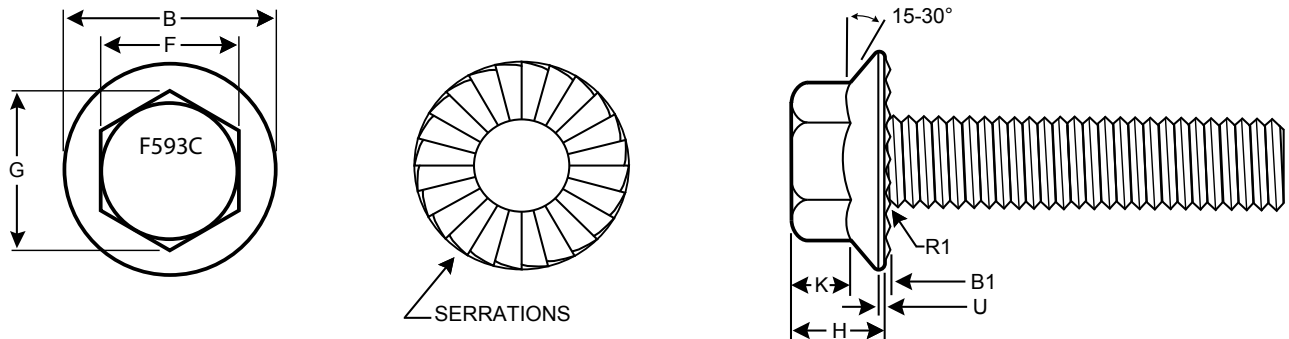
### Tensile Strength

#### 18/8 SS

100,000 psi min

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## DIMENSIONS FOR 18-8 STAINLESS STEEL HEX SERRATED FLANGE SCREW



SIZE	WIDTH ACROSS FLATS (F)		WIDTH ACROSS CORNERS (G)		FLANGE DIAMETER (B)	HEAD HEIGHT (S)	FLANGE THICKNESS (U)	WRENCH HEIGHT (K)	SERRATION DEPTH (B1)	FILLET (R1)
	MAX	MIN	MAX	MIN	MAX	MAX	MIN	MIN	MIN	MIN
1/4	0.375	0.367	0.433	0.409	0.56	0.28	0.04	0.17	0.011	0.015
5/16	0.500	0.489	0.577	0.548	0.68	0.32	0.05	0.21	0.013	0.015
3/8	0.562	0.551	0.650	0.618	0.81	0.39	0.06	0.25	0.015	0.015
1/2	0.750	0.736	0.866	0.825	1.07	0.51	0.08	0.34	0.019	0.015

## METRIC CLASS 8.8 HEX SERRATED FLANGE SCREW

Hex Serrated Flange Screws are manufactured in accordance with the latest revision of the following industry standards:

- DIN 6921** Dimensional Requirements (with addition of serrations)
- ISO 898-1** Material and Physical Properties
- ISO 261** Thread Requirements
- ISO 6157-1** Surface Discontinuities
- ISO 3269** Inspection and Quality Assurance

### THREADS

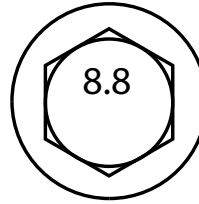
Threads are made to the requirements of ISO 261  
ISO 965-2 Class 6g  
Thread acceptance per ISO 1502

### PLATING

Zinc Clear (RoHS compliant Cr3+)  
Zinc Yellow

## MATERIAL AND PHYSICAL PROPERTIES

### Property Class 8.8



### Chemical Composition:

CARBON (C)		PHOSPHORUS (P)	SULFUR (S)	BORON (B)
Max	Min	Max	Max	Max
0.55	0.15	0.035	0.035	0.003

### Hardness

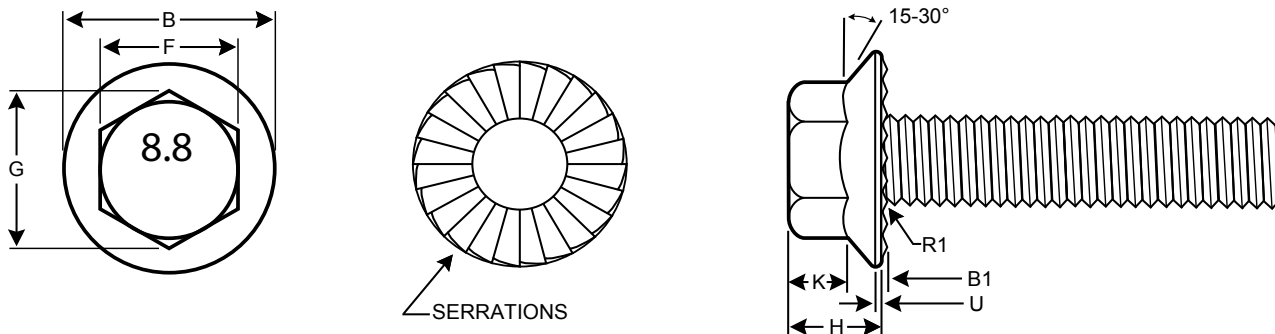
METRIC CLASS 8.8
HRC 22/32

### Tensile Strength

METRIC CLASS 8.8
800 MPa min

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## DIMENSIONS FOR METRIC CLASS 8.8 HEX SERRATED FLANGE SCREW



SIZE	WIDTH ACROSS FLATS (F)		WIDTH ACROSS CORNERS (G)	FLANGE DIAMETER (B)	HEAD HEIGHT (S)	FLANGE THICKNESS (U)	WRENCH HEIGHT (K)	SERRATION DEPTH (B1)	FILLET (R1)
	MAX	MIN	MIN	MAX	MAX	MIN	MIN	MIN	MIN
M6	10.0	9.78	10.95	14.2	6.6	1.1	2.5	0.3	0.4
M8	13.0	12.73	14.26	18.0	8.1	1.2	3.2	0.3	0.4
M10	15.0	14.73	16.50	22.3	9.2	1.5	3.6	0.4	0.4
M12	16.0	15.73	17.62	26.6	11.5	1.8	4.6	0.45	0.6

## Hex Serrated Flange Screws - Inch

### Grade 8

SIZE	GRADE	THREAD	PITCH	FINISH	PART #
1/4-20x3/8	GR 8	Full	Coarse	Zinc Clear	824004T
1/4-20x1/2	GR 8	Full	Coarse	Phos & Oil	825165
1/4-20x1/2	GR 8	Full	Coarse	Zinc Clear	825208T
1/4-20x1/2	GR 8	Full	Coarse	Zinc Yellow	825212
1/4-20x3/4	GR 8	Full	Coarse	Zinc Clear	825330T
1/4-20x1	GR 8	Full	Coarse	Plain Finish	825201
1/4-20x1	GR 8	Full	Coarse	Zinc Clear	825202T
1/4-20x1	GR 8	Full	Coarse	Zinc Yellow	825203
1/4-20x1 1/4	GR 8	Full	Coarse	Zinc Clear	825204T
1/4-20x1 1/4	GR 8	Full	Coarse	Zinc Yellow	825205
1/4-20x1 1/2	GR 8	Full	Coarse	Zinc Clear	825206T
1/4-20x1 1/2	GR 8	Full	Coarse	Zinc Yellow	825207

5/16-18x1/2	GR 8	Full	Coarse	Zinc Clear	825342T
5/16-18x1/2	GR 8	Full	Coarse	Zinc Yellow	825343
5/16-18x3/4	GR 8	Full	Coarse	Zinc Clear	825344T
5/16-18x3/4	GR 8	Full	Coarse	Zinc Yellow	825345
5/16-18x1	GR 8	Full	Coarse	Phos & Oil	825339
5/16-18x1	GR 8	Full	Coarse	Zinc Clear	825332T
5/16-18x1	GR 8	Full	Coarse	Zinc Yellow	825331
5/16-18x1 1/4	GR 8	Full	Coarse	Zinc Clear	825334T
5/16-18x1 1/4	GR 8	Full	Coarse	Zinc Yellow	825333
5/16-18x1 1/2	GR 8	Full	Coarse	Zinc Clear	825336T
5/16-18x1 1/2	GR 8	Full	Coarse	Zinc Yellow	825337
5/16-18x1 3/4	GR 8	Full	Coarse	Zinc Clear	825338T
5/16-18x2	GR 8	Full	Coarse	Zinc Clear	825340T
5/16-18x2	GR 8	Full	Coarse	Zinc Yellow	825341

3/8-16x3/4	GR 8	Full	Coarse	Zinc Clear	825346T
3/8-16x3/4	GR 8	Full	Coarse	Zinc Yellow	825347
3/8-16x7/8	GR 8	Full	Coarse	Zinc Clear	825348T
3/8-16x1	GR 8	Full	Coarse	Zinc Clear	825350T
3/8-16x1	GR 8	Full	Coarse	Zinc Yellow	825351
3/8-16x1 1/4	GR 8	Full	Coarse	Zinc Clear	825352T
3/8-16x1 1/4	GR 8	Full	Coarse	Zinc Yellow	825353
3/8-16x1 1/2	GR 8	Full	Coarse	Zinc Clear	825354T
3/8-16x1 1/2	GR 8	Full	Coarse	Zinc Yellow	825355
3/8-16x1 3/4	GR 8	Full	Coarse	Zinc Clear	825356T
3/8-16x1 3/4	GR 8	Full	Coarse	Zinc Yellow	825357
3/8-16x2	GR 8	Full	Coarse	Zinc Clear	824228T
3/8-16x2 1/2	GR 8	Full	Coarse	Zinc Yellow	825129

### Grade 8

SIZE	GRADE	THREAD	PITCH	FINISH	PART #
1/2-13x1	GR 8	Full	Coarse	Zinc Clear	825358T
1/2-13x1 1/4	GR 8	Full	Coarse	Zinc Clear	825360T
1/2-13x1 1/2	GR 8	Full	Coarse	Zinc Clear	825362T
1/2-13x1 3/4	GR 8	Full	Coarse	Zinc Clear	825364T
1/2-13x2	GR 8	Full	Coarse	Zinc Clear	825366T

### 120M Case Hardened

SIZE	GRADE	THREAD	PITCH	FINISH	PART #
#6-32x1/2	120M	Full	Coarse	Zinc Clear	825210
#6-32x5/8	120M	Full	Coarse	Zinc Clear	825215T
#6-32x3/4	120M	Full	Coarse	Zinc Clear	825220T
#6-32x1	120M	Full	Coarse	Zinc Clear	825225T

#8-32x1/4	120M	Full	Coarse	Zinc Clear	825230T
#8-32x5/16	120M	Full	Coarse	Zinc Clear	825235T
#8-32x3/8	120M	Full	Coarse	Zinc Clear	825240
#8-32x1/2	120M	Full	Coarse	Zinc Clear	825245
#8-32x5/8	120M	Full	Coarse	Zinc Clear	825250T
#8-32x3/4	120M	Full	Coarse	Zinc Clear	825255
#8-32x1	120M	Full	Coarse	Zinc Clear	825260

#10-24x3/8	120M	Full	Coarse	Zinc Clear	825265
#10-24x1/2	120M	Full	Coarse	Zinc Clear	825270
#10-24x5/8	120M	Full	Coarse	Zinc Clear	825275
#10-24x3/4	120M	Full	Coarse	Zinc Clear	825280T
#10-24x1	120M	Full	Coarse	Zinc Clear	825285T

#10-32x1/4	120M	Full	Fine	Zinc Clear	825290T
#10-32x3/8	120M	Full	Fine	Zinc Clear	825295
#10-32x5/8	120M	Full	Fine	Zinc Clear	825305
#10-32x1	120M	Full	Fine	Zinc Clear	825315T
#10-32x1 1/4	120M	Full	Fine	Zinc Clear	825320T
#10-32x1/2	120M	Full	Fine	Zinc Clear	825300T

1/4-20x3/8	120M	Full	Coarse	Zinc Clear	824005
1/4-20x1/2	120M	Full	Coarse	Zinc Clear	824010T
1/4-20x1/2	120M	Full	Coarse	Zinc Black	824011T
1/4-20x5/8	120M	Full	Coarse	Zinc Clear	824015T
1/4-20x3/4	120M	Full	Coarse	Zinc Clear	824020T
1/4-20x3/4	120M	Full	Coarse	Zinc Yellow	824019

## Hex Serrated Flange Screws - Inch

### 120M Case Hardened

SIZE	GRADE	THREAD	PITCH	FINISH	PART #
1/4-20x7/8	120M	Full	Coarse	Zinc Clear	824025T
1/4-20x1	120M	Full	Coarse	Zinc Clear	824030T
1/4-20x1 1/4	120M	Full	Coarse	Zinc Clear	824035T
1/4-20x1 1/4	120M	Full	Coarse	Zinc Clear	824037T
1/4-20x1 1/2	120M	Partial	Coarse	Zinc Clear	824040T
1/4-20x1 3/4	120M	Partial	Coarse	Zinc Clear	824045T
1/4-20x2	120M	Partial	Coarse	Zinc Clear	824050
1/4-20x2 1/4	120M	Partial	Coarse	Zinc Clear	824055T
1/4-20x2 1/2	120M	Partial	Coarse	Zinc Clear	824060T
1/4-20x2 3/4	120M	Partial	Coarse	Zinc Clear	824065T
1/4-20x3	120M	Partial	Coarse	Zinc Clear	824070T

5/16-18x1/2	120M	Full	Coarse	Zinc Clear	824100T
5/16-18x5/8	120M	Full	Coarse	Zinc Clear	824105T
5/16-18x3/4	120M	Full	Coarse	Zinc Yellow	824109
5/16-18x3/4	120M	Full	Coarse	Zinc Clear	824110T
5/16-18x7/8	120M	Full	Coarse	Zinc Clear	824115T
5/16-18x1	120M	Full	Coarse	Zinc Clear	824120T
5/16-18x1	120M	Full	Coarse	Zinc Yellow	824119
5/16-18x1 1/4	120M	Full	Coarse	Zinc Clear	824125T
5/16-18x1 1/2	120M	Full	Coarse	Zinc Clear	824131T
5/16-18x1 1/2	120M	Partial	Coarse	Zinc Clear	824130T
5/16-18x1 3/4	120M	Partial	Coarse	Zinc Clear	824135T
5/16-18x2	120M	Partial	Coarse	Zinc Clear	824140T
5/16-18x2 1/4	120M	Partial	Coarse	Zinc Clear	824145T
5/16-18x2 1/2	120M	Full	Coarse	Zinc Clear	824153T
5/16-18x2 1/2	120M	Partial	Coarse	Zinc Clear	824150T
5/16-18x2 3/4	120M	Partial	Coarse	Zinc Clear	824155
5/16-18x3	120M	Partial	Coarse	Zinc Clear	824160T
5/16-18x3	120M	Partial	Coarse	Zinc Clear	824160

3/8-16x1/2	120M	Full	Coarse	Zinc Clear	824190T
3/8-16x5/8	120M	Full	Coarse	Zinc Clear	824195T
3/8-16x3/4	120M	Full	Coarse	Zinc Clear	824200T
3/8-16x3/4	120M	Full	Coarse	Zinc Yellow	824206
3/8-16x7/8	120M	Full	Coarse	Zinc Clear	824205T
3/8-16x1	120M	Full	Coarse	Zinc Clear	824210T
3/8-16x1	120M	Full	Coarse	Zinc Yellow	824212
3/8-16x1 1/8	120M	Full	Coarse	Plain Finish	824216
3/8-16x1 1/8	120M	Full	Coarse	Zinc Yellow	824214
3/8-16x1 1/4	120M	Full	Coarse	Zinc Clear	824215T

### 120M Case Hardened

SIZE	GRADE	THREAD	PITCH	FINISH	PART #
3/8-16x1 1/4	120M	Full	Coarse	Zinc Clear	824215
3/8-16x1 1/2	120M	Partial	Coarse	Zinc Clear	824220T
3/8-16x1 1/2	120M	Full	Coarse	Zinc Clear	824220T
3/8-16x1 3/4	120M	Partial	Coarse	Zinc Clear	824225T
3/8-16x2	120M	Partial	Coarse	Zinc Clear	824230T
3/8-16x2 1/4	120M	Partial	Coarse	Zinc Clear	824235T
3/8-16x2 1/2	120M	Partial	Coarse	Zinc Clear	824240T
3/8-16x2 1/2	120M	Partial	Coarse	Zinc Yellow	824241
3/8-16x2 3/4	120M	Partial	Coarse	Zinc Clear	824245T
3/8-16x2 3/4	120M	Partial	Coarse	Zinc Yellow	824247
3/8-16x3	120M	Full	Coarse	Zinc Clear	824250

7/16-14x3/4	120M	Full	Coarse	Zinc Clear	824290T
7/16-14x7/8	120M	Full	Coarse	Zinc Clear	824295T
7/16-14x1	120M	Full	Coarse	Zinc Clear	824300T
7/16-14x1 1/4	120M	Full	Coarse	Zinc Yellow	824307
7/16-14x1 1/4	120M	Full	Coarse	Zinc Clear	824305T
7/16-14x1 1/2	120M	Full	Coarse	Zinc Clear	824310T
7/16-14x1 3/4	120M	Full	Coarse	Zinc Clear	824315T
7/16-14x1 3/4	120M	Partial	Coarse	Zinc Clear	824317T
7/16-14x2	120M	Partial	Coarse	Zinc Clear	824320T
7/16-14x2 1/4	120M	Partial	Coarse	Zinc Clear	824325T
7/16-14x2 1/2	120M	Partial	Coarse	Zinc Clear	824330T

1/2-13x3/4	120M	Full	Coarse	Zinc Clear	824385T
1/2-13x7/8	120M	Full	Coarse	Zinc Clear	824390T
1/2-13x1	120M	Full	Coarse	Zinc Clear	824395T
1/2-13x1	120M	Full	Coarse	Zinc Yellow	824394
1/2-13x1 1/4	120M	Full	Coarse	Zinc Clear	824400T
1/2-13x1 1/4	120M	Full	Coarse	Zinc Yellow	824399
1/2-13x1 1/2	120M	Full	Coarse	Zinc Clear	824405T
1/2-13x1 3/4	120M	Full	Coarse	Zinc Clear	824410T
1/2-13x1 3/4	120M	Full	Coarse	Zinc Yellow	824409
1/2-13x2	120M	Partial	Coarse	Zinc Clear	824415T
1/2-13x2 1/4	120M	Partial	Coarse	Zinc Clear	824420T
1/2-13x2 1/2	120M	Partial	Coarse	Zinc Clear	824425
1/2-13x2 3/4	120M	Partial	Coarse	Zinc Clear	824430T
1/2-13x3	120M	Full	Coarse	Zinc Clear	824435T



## Hex Serrated Flange Screws - Inch

### Grade 5

SIZE	GRADE	THREAD	PITCH	FINISH	PART #
#6-32x1/4	GR 5	Full	Coarse	Zinc Clear	825174T
#6-32x3/8	GR 5	Full	Coarse	Zinc Clear	825176T
#6-32x1/2	GR 5	Full	Coarse	Zinc Clear	825178T
#6-32x5/8	GR 5	Full	Coarse	Zinc Clear	825180T
#6-32x3/4	GR 5	Full	Coarse	Zinc Clear	825182T
#6-32x7/8	GR 5	Full	Coarse	Zinc Clear	825184T
#6-32x1	GR 5	Full	Coarse	Zinc Clear	825186T

#8-32x1/4	GR 5	Full	Coarse	Zinc Clear	825188T
#8-32x3/8	GR 5	Full	Coarse	Zinc Clear	825190T
#8-32x1/2	GR 5	Full	Coarse	Zinc Clear	825192T
#8-32x5/8	GR 5	Full	Coarse	Zinc Clear	825194T
#8-32x3/4	GR 5	Full	Coarse	Zinc Clear	825196T
#8-32x7/8	GR 5	Full	Coarse	Zinc Clear	825198T
#8-32x1	GR 5	Full	Coarse	Zinc Clear	825200T

#10-24x3/8	GR 5	Full	Coarse	Zinc Clear	825028T
#10-24x3/8	GR 5	Full	Coarse	Zinc Yellow	825028
#10-24x1/2	GR 5	Full	Coarse	Zinc Clear	825030T
#10-24x1/2	GR 5	Full	Coarse	Zinc Yellow	825033
#10-24x5/8	GR 5	Full	Coarse	Zinc Clear	825032T
#10-24x3/4	GR 5	Full	Coarse	Zinc Clear	825034T
#10-24x3/4	GR 5	Full	Coarse	Zinc Yellow	825034
#10-24x1	GR 5	Full	Coarse	Zinc Clear	825036T

#10-32x3/8	GR 5	Full	Fine	Zinc Clear	825038T
#10-32x1/2	GR 5	Full	Fine	Zinc Clear	825040T
#10-32x5/8	GR 5	Full	Fine	Zinc Clear	825042T
#10-32x3/4	GR 5	Full	Fine	Zinc Clear	825044T
#10-32x3/4	GR 5	Full	Fine	Zinc Yellow	825051
#10-32x1	GR 5	Full	Fine	Zinc Clear	825046T

1/4-20x3/8	GR 5	Full	Coarse	Zinc Clear	825050T
1/4-20x3/8	GR 5	Full	Coarse	Zinc Yellow	825050
1/4-20x3/8	GR 5	Full	Coarse	Zinc Black	825049T
1/4-20x1/2	GR 5	Full	Coarse	Zinc Clear	824001T
1/4-20x1/2	GR 5	Full	Coarse	Zinc Yellow	825053
1/4-20x1/2	GR 5	Full	Coarse	Zinc Black	824006
1/4-20x5/8	GR 5	Full	Coarse	Zinc Clear	825054T
1/4-20x5/8	GR 5	Full	Coarse	Zinc Yellow	825055
1/4-20x9/16	GR 5	Full	Coarse	Zinc Clear	825052T
1/4-20x3/4	GR 5	Full	Coarse	Plain Finish	825141

### Grade 5

SIZE	GRADE	THREAD	PITCH	FINISH	PART #
1/4-20x3/4	GR 5	Full	Coarse	Zinc Clear	825056T
1/4-20x3/4	GR 5	Full	Coarse	Zinc Yellow	825057
1/4-20x7/8	GR 5	Full	Coarse	Zinc Clear	825058T
1/4-20x1	GR 5	Full	Coarse	Zinc Clear	824028T
1/4-20x1	GR 5	Full	Coarse	Zinc Yellow	825059
1/4-20x1	GR 5	Full	Coarse	Zinc Black	825076
1/4-20x1 1/4	GR 5	Full	Coarse	Zinc Clear	825060T
1/4-20x1 1/4	GR 5	Full	Coarse	Zinc Yellow	825061
1/4-20x1 1/2	GR 5	Full	Coarse	Zinc Clear	825062T
1/4-20x1 1/2	GR 5	Full	Coarse	Zinc Yellow	825063
1/4-20x1 3/4	GR 5	Full	Coarse	Zinc Clear	825064T
1/4-20x1 3/4	GR 5	Partial	Coarse	Zinc Yellow	825065
1/4-20x2	GR 5	Full	Coarse	Zinc Clear	825066T
1/4-20x2	GR 5	Full	Coarse	Zinc Black	825209
1/4-20x2 1/4	GR 5	Full	Coarse	Zinc Clear	825068T
1/4-20x2 1/2	GR 5	Full	Coarse	Zinc Clear	824061
1/4-20x2 3/4	GR 5	Full	Coarse	Zinc Clear	825070T
1/4-20x3	GR 5	Full	Coarse	Zinc Clear	825072T

1/4-28x1/2	GR 5	Full	Fine	Zinc Clear	820582T
1/4-28x3/4	GR 5	Full	Fine	Zinc Clear	820574T
1/4-28x1	GR 5	Full	Fine	Zinc Clear	820576T
1/4-28x1 1/4	GR 5	Full	Fine	Zinc Clear	820578T
1/4-28x1 1/2	GR 5	Full	Fine	Zinc Clear	820580T

5/16-18x1/2	GR 5	Full	Coarse	Zinc Clear	825084T
5/16-18x1/2	GR 5	Full	Coarse	Zinc Yellow	825067
5/16-18x5/8	GR 5	Full	Coarse	Zinc Clear	825086T
5/16-18x5/8	GR 5	Full	Coarse	Zinc Yellow	825069
5/16-18x3/4	GR 5	Full	Coarse	Zinc Clear	824112T
5/16-18x3/4	GR 5	Full	Coarse	Zinc Yellow	825071
5/16-18x7/8	GR 5	Full	Coarse	Zinc Clear	825088T
5/16-18x7/8	GR 5	Full	Coarse	Zinc Yellow	825073
5/16-18x1	GR 5	Full	Coarse	Zinc Clear	825090T
5/16-18x1	GR 5	Full	Coarse	Zinc Yellow	825075
5/16-18x1 1/4	GR 5	Full	Coarse	Plain Finish	825322
5/16-18x1 1/4	GR 5	Full	Coarse	Zinc Clear	825092T
5/16-18x1 1/4	GR 5	Full	Coarse	Zinc Yellow	825077
5/16-18x1 1/4	GR 5	Full	Coarse	Zinc Black	825321
5/16-18x1 1/2	GR 5	Full	Coarse	Zinc Clear	825094T
5/16-18x1 1/2	GR 5	Partial	Coarse	Zinc Clear	825096T
5/16-18x1 1/2	GR 5	Full	Coarse	Zinc Yellow	825079

## Hex Serrated Flange Screws - Inch

### Grade 5

SIZE	GRADE	THREAD	PITCH	FINISH	PART #
5/16-18x1 3/4	GR 5	Full	Coarse	Zinc Clear	824137T
5/16-18x2	GR 5	Full	Coarse	Zinc Clear	824138T
5/16-18x2	GR 5	Full	Coarse	Zinc Yellow	825081
5/16-18x2 1/4	GR 5	Full	Coarse	Zinc Clear	825098T
5/16-18x2 1/2	GR 5	Full	Coarse	Zinc Clear	825100T
5/16-18x2 3/4	GR 5	Full	Coarse	Zinc Clear	825102T
5/16-18x3	GR 5	Full	Coarse	Zinc Clear	824161

5/16-24x1	GR 5	Full	Fine	Zinc Clear	825135T
5/16-24x1 1/4	GR 5	Full	Fine	Zinc Clear	825108T
5/16-24x1 1/2	GR 5	Full	Fine	Zinc Clear	825110T
5/16-24x1/2	GR 5	Full	Fine	Zinc Clear	825104T
5/16-24x3/4	GR 5	Full	Fine	Zinc Clear	825106T

3/8-16x1/2	GR 5	Full	Coarse	Zinc Clear	825112T
3/8-16x1/2	GR 5	Full	Coarse	Zinc Yellow	825083
3/8-16x5/8	GR 5	Full	Coarse	Zinc Clear	825114T
3/8-16x5/8	GR 5	Full	Coarse	Zinc Yellow	825085
3/8-16x3/4	GR 5	Full	Coarse	Phos & Oil	825199
3/8-16x3/4	GR 5	Full	Coarse	Phos & Oil	824198
3/8-16x3/4	GR 5	Full	Coarse	Zinc Clear	824199T
3/8-16x3/4	GR 5	Full	Coarse	Zinc Yellow	825087
3/8-16x7/8	GR 5	Full	Coarse	Zinc Clear	825116T
3/8-16x1	GR 5	Full	Coarse	Plain Finish	824208
3/8-16x1	GR 5	Full	Coarse	Phos & Oil	831513
3/8-16x1	GR 5	Full	Coarse	Zinc Clear	824207T
3/8-16x1	GR 5	Full	Coarse	Zinc Yellow	825089
3/8-16x1	GR 5	Full	Coarse	Zinc Black	824209
3/8-16x1 1/4	GR 5	Full	Coarse	Plain Finish	825125
3/8-16x1 1/4	GR 5	Full	Coarse	Zinc Clear	825118T
3/8-16x1 1/4	GR 5	Full	Coarse	Zinc Yellow	825091
3/8-16x1 1/2	GR 5	Full	Coarse	Zinc Clear	825120T
3/8-16x1 1/2	GR 5	Full	Coarse	Zinc Yellow	825093
3/8-16x1 3/4	GR 5	Full	Coarse	Zinc Clear	825122T
3/8-16x1 3/4	GR 5	Full	Coarse	Zinc Yellow	427455
3/8-16x2	GR 5	Full	Coarse	Zinc Clear	825124T
3/8-16x2 1/4	GR 5	Full	Coarse	Zinc Clear	825126T
3/8-16x2 1/2	GR 5	Full	Coarse	Zinc Clear	825128T
3/8-16x2 1/2	GR 5	Full	Coarse	Zinc Yellow	825095
3/8-16x2 3/4	GR 5	Full	Coarse	Zinc Clear	825130T
3/8-16x3	GR 5	Full	Coarse	Zinc Clear	825132T

### Grade 5

SIZE	GRADE	THREAD	PITCH	FINISH	PART #
3/8-24x3/4	GR 5	Full	Fine	Zinc Clear	825142T
3/8-24x1	GR 5	Full	Fine	Zinc Clear	825134T
3/8-24x1 1/4	GR 5	Full	Fine	Zinc Clear	825136T
3/8-24x1 1/2	GR 5	Full	Fine	Zinc Clear	825138T
3/8-24x2	GR 5	Full	Fine	Zinc Clear	825140T

7/16-14x3/4	GR 5	Full	Coarse	Zinc Clear	825144T
7/16-14x1	GR 5	Full	Coarse	Zinc Clear	824355
7/16-14x1 1/4	GR 5	Full	Coarse	Zinc Clear	825146T
7/16-14x1 1/4	GR 5	Full	Coarse	Zinc Yellow	825097
7/16-14x1 1/2	GR 5	Full	Coarse	Zinc Clear	825148T
7/16-14x2	GR 5	Full	Coarse	Zinc Clear	825150T

1/2-13x3/4	GR 5	Full	Coarse	Zinc Clear	825152T
1/2-13x3/4	GR 5	Full	Coarse	Zinc Yellow	825099
1/2-13x7/8	GR 5	Full	Coarse	Zinc Clear	824360T
1/2-13x1	GR 5	Full	Coarse	Zinc Clear	825154T
1/2-13x1	GR 5	Full	Coarse	Zinc Yellow	825101
1/2-13x1 1/4	GR 5	Full	Coarse	Zinc Clear	824401
1/2-13x1 1/4	GR 5	Full	Coarse	Zinc Yellow	825103
1/2-13x1 1/2	GR 5	Full	Coarse	Zinc Clear	825156T
1/2-13x1 1/2	GR 5	Full	Coarse	Zinc Yellow	825105
1/2-13x1 3/4	GR 5	Full	Coarse	Zinc Clear	825158T
1/2-13x1 3/4	GR 5	Full	Coarse	Zinc Yellow	825107
1/2-13x2	GR 5	Full	Coarse	Zinc Clear	825160T
1/2-13x2	GR 5	Full	Coarse	Zinc Yellow	825109
1/2-13x2 1/4	GR 5	Full	Coarse	Zinc Clear	824422T
1/2-13x2 1/2	GR 5	Full	Coarse	Zinc Clear	825170T
1/2-13x2 1/2	GR 5	Full	Coarse	Zinc Yellow	825111
1/2-13x3	GR 5	Full	Coarse	Zinc Clear	825172T

1/2-20x2 1/2	GR 5	Full	Fine	Zinc Clear	825162T
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5/8-11x1 1/2	GR 5	Full	Coarse	Zinc Clear	825164T
5/8-11x1 3/4	GR 5	Full	Coarse	Zinc Clear	825166T
5/8-11x2	GR 5	Full	Coarse	Zinc Clear	825168T

## Hex Serrated Flange Screws - Inch

### Grade 5 Large Flange

SIZE	GRADE	THREAD	PITCH	FINISH	PART #
1/4-20x1/2	GR 5	Full	Coarse	Zinc Clear	826402T
1/4-20x5/8	GR 5	Full	Coarse	Zinc Clear	461064
1/4-20x3/4	GR 5	Full	Coarse	Zinc Clear	826404T
1/4-20x1	GR 5	Full	Coarse	Zinc Clear	826405T

5/16-18x3/4	GR 5	Full	Coarse	Zinc Clear	826406T
5/16-18x3/4	GR 5	Full	Coarse	Zinc Yellow	826410
5/16-18x1	GR 5	Full	Coarse	Zinc Clear	826407T

3/8-16x3/4	GR 5	Full	Coarse	Zinc Clear	826408T
3/8-16x3/4	GR 5	Full	Coarse	Zinc Yellow	826490
3/8-16x7/8	GR 5	Full	Coarse	Zinc Clear	826401T
3/8-16x1	GR 5	Full	Coarse	Zinc Clear	826409T

### 18/8 Stainless Steel

SIZE	GRADE	THREAD	PITCH	FINISH	PART #
1/2-13x1 1/4	18/8	Full	Coarse	Passivated	825021
1/2-13x1 1/2	18/8	Full	Coarse	Passivated	825022
1/2-13x1 3/4	18/8	Full	Coarse	Passivated	825023
1/2-13x2	18/8	Full	Coarse	Passivated	825024
1/2-13x2 1/4	18/8	Full	Coarse	Passivated	825025
1/2-13x2 1/2	18/8	Full	Coarse	Passivated	825026

### 18/8 Stainless Steel

SIZE	GRADE	THREAD	PITCH	FINISH	PART #
1/4-20x1/2	18/8	Full	Coarse	Passivated	825005
1/4-20x3/4	18/8	Full	Coarse	Passivated	825006
1/4-20x1	18/8	Full	Coarse	Passivated	825000
1/4-20x1 1/4	18/8	Full	Coarse	Passivated	825001
1/4-20x1 1/2	18/8	Full	Coarse	Passivated	825002
1/4-20x1 3/4	18/8	Full	Coarse	Passivated	825003
1/4-20x2	18/8	Full	Coarse	Passivated	825004

5/16-18x1/2	18/8	Full	Coarse	Passivated	825007
5/16-18x3/4	18/8	Full	Coarse	Passivated	825008
5/16-18x1	18/8	Full	Coarse	Passivated	825009
5/16-18x1 1/4	18/8	Full	Coarse	Passivated	825010
5/16-18x1 1/2	18/8	Full	Coarse	Passivated	825011
5/16-18x1 3/4	18/8	Full	Coarse	Passivated	825012
5/16-18x2	18/8	Full	Coarse	Passivated	825013

3/8-16x1/2	18/8	Full	Coarse	Passivated	825014
3/8-16x3/4	18/8	Full	Coarse	Passivated	825015
3/8-16x1	18/8	Full	Coarse	Passivated	825016
3/8-16x1 1/4	18/8	Full	Coarse	Passivated	825017
3/8-16x1 1/2	18/8	Full	Coarse	Passivated	825018
3/8-16x1 3/4	18/8	Full	Coarse	Passivated	825019
3/8-16x2	18/8	Full	Coarse	Passivated	825020

## Hex Serrated Flange Screws - Metric

### Metric Class 8.8

SIZE	GRADE	THREAD	PITCH	FINISH	PART #
M6-1.0x12	ISO 8.8	Full	Coarse	Zinc Clear	427012T
M6-1.0x16	ISO 8.8	Full	Coarse	Zinc Clear	427044T
M6-1.0x16	ISO 8.8	Full	Coarse	Zinc Yellow	427051
M6-1.0x20	ISO 8.8	Full	Coarse	Zinc Clear	429034T
M6-1.0x25	ISO 8.8	Full	Coarse	Zinc Clear	427070T
M6-1.0x30	ISO 8.8	Full	Coarse	Zinc Clear	429000T
M6-1.0x35	ISO 8.8	Full	Coarse	Zinc Clear	429002T
M6-1.0x40	ISO 8.8	Full	Coarse	Zinc Clear	429004T

M8-1.25x16	ISO 8.8	Full	Coarse	Zinc Clear	429006T
M8-1.25x20	ISO 8.8	Full	Coarse	Zinc Clear	429008T
M8-1.25x25	ISO 8.8	Full	Coarse	Plain	429013
M8-1.25x25	ISO 8.8	Full	Coarse	Zinc Clear	429010T
M8-1.25x25	ISO 8.8	Full	Coarse	Zinc Yellow	429011
M8-1.25x30	ISO 8.8	Full	Coarse	Zinc Clear	429012T
M8-1.25x35	ISO 8.8	Full	Coarse	Zinc Clear	429014T
M8-1.25x40	ISO 8.8	Full	Coarse	Zinc Clear	429016T
M8-1.25x40	ISO 8.8	Partial	Coarse	Zinc Clear	429017T

M10-1.5x20	ISO 8.8	Full	Coarse	Zinc Clear	429018T
M10-1.5x25	ISO 8.8	Full	Coarse	Zinc Clear	429020T

M10-1.5x35	ISO 8.8	Full	Coarse	Zinc Clear	429022T
M10-1.5x40	ISO 8.8	Full	Coarse	Zinc Clear	429024T
M10-1.5x45	ISO 8.8	Full	Coarse	Zinc Clear	429026T
M10-1.5x30	ISO 8.8	Full	Coarse	Zinc Clear	427457T
M12-1.75x30	ISO 8.8	Full	Coarse	Zinc Clear	429028T
M12-1.75x35	ISO 8.8	Full	Coarse	Zinc Clear	429030T
M12-1.75x40	ISO 8.8	Full	Coarse	Zinc Clear	429032T