

S.NO	STANDARDS			
	DIN	ISO	ANSI/ ASME	BS
1		7379	B.18.3	
2	609/610			
3		7380	B.18.3	
4	7991	10642	B.18.3	2470
5	912	4762	B.18.3	2470
6	7984		B.18.3	
7	931 / 933	4017 / 4014	B.18.2.1	1768 / 1083
8	6921			
9				
10	913/914/915/916	4026/4027/4028/4029	B.18.3	2470
11			B.18.6.2	
12	417/427/438/551/553	7435/2342/7436/4766/743 4		

13				
14	478		B.18.6.2	
15	479		B.18.6.2	
16	480		B.18.6.2	
17	464 / 653			
18	466/467			
19	444			
20	921			
21	923			
22	660	1051		
23	661			

STANDARDS				
S.NO	DIN	ISO	ANSI/ ASME	BS
1	1	2330	R 18 8 2	

1	7	2338	B.18.8.2	
2	7	2338	B.18.8.2	
3	6325	8734	B.18.8.2	
4	7977	8737		
5	7978	8736		
6		2341	B.18.8.2	

STANDARDS				
S.NO	DIN	ISO	ANSI/ ASME	BS
1	835 / 938 / 939			

2	976			
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PIPE PLUGS / SCREW				
S.NO	STANDARDS			
	DIN	ISO	ANSI/	BS
			ASME	
1	906		B.1.20.3	
2	908		B.1.20.3	
3	909			
4	910		B.1.20.3	
5	7604			

NUTS				
S.NO	STANDARDS			
	DIN	ISO	ANSI/	BS
			ASME	
1	431			
2	439	4035		
		8675		
		4036		
3	555	4034		
4	557			
5	917			
6	934	4032/3		
		8673/4		
7	935	7035/6		
8	936	4035		
9	937	7038		
10	1587			
11	6330			
12	6331			
13	1804			

**RINGS / SHAFT COLLARS**

S.NO	STANDARDS			
	DIN	ISO	ANSI/ ASME	BS
1	703			
2	705			

## TS & SCREWS

DESCRIPTION	PRODUCT RANGE		MATERIAL & GRADE
	METRIC	INCHES	
HEXAGON SOCKET HEAD SHOULDER SCREWS	Ø4 to Ø36	Ø1/8" TO Ø1.1/2"	STAINLESS STEEL A2-18.8 A4-316
HEX SHOULDER SCREWS (HEX FIT BOLTS)	M6 TO M42		STAINLESS STEEL A2-18.8 A4-316
HEXAGON SOCKET BUTTON HEAD CAP SCREWS	M3 TO M16	#4 TO 5/8"	STAINLESS STEEL A2-18.8 A4-316
HEXAGON COUNTER SUNK HEAD CSK SCREWS	M3 TO M52	#10 TO 1.1/2"	STAINLESS STEEL A2-18.8 A4-316
HEXAGON SOCKET HEAD CAP SCREWS	M4 TO M42	#10 TO 1.1/2"	STAINLESS STEEL A2-18.8 A4-316
HEXAGON SOCKET LOW HEAD CAP SCREWS	M6 TO M24	1/4" TO 1"	STAINLESS STEEL A2-18.8 A4-316
HEX HEAD SCREWS / BOLTS	M4 TO M42	1/4" TO 1.1/2"	STAINLESS STEEL A2-18.8 A4-316
HEX HEAD FLANGE SCREW/BOLT	M4 TO M24	1/4" TO 1"	STAINLESS STEEL A2-18.8 A4-316
SIX LOBE SCREWS	M2 TO M24	#10 TO 1"	STAINLESS STEEL A2-18.8 A4-316
SOCKET SET SCREWS	M3 TO M10	3/16" 3/8"	STAINLESS STEEL A2-18.8 A4-316
SQUARE HEAD SET SCREWS	"	#10 TO 1	STAINLESS STEEL A2-18.8 A4-316
SLOTTED GRUB SCREWS (Slotted Set Screw)	M3 TO M24	3/16" TO 1"	STAINLESS STEEL A2-18.8 A4-316
MACHINE SCREWS			

MACHINE SCREWS (Pan Head/Button Head/CSK/Cheese head/Round Head/Oval Head/Cross recessed CSK/Cross Raised CSK /Slotted capstan)	M3 TO M8	#4 to 3/8"	STAINLESS STEEL A2-18.8 A4-316
SQUARE HEAD BOLT WITH COLLAR	M5 TO M20	1/4" TO 3/4"	STAINLESS STEEL A2-18.8 A4-316
SQUARE HEAD BOLT WITH SHORT DOG POINT	M5 TO M20	1/4" TO 3/4"	STAINLESS STEEL A2-18.8 A4-316
SQUARE HEAD BOLT WITH COLLAR HALF DOG POINT AND ROUNDED END	M5 TO M20	1/4" TO 3/4"	STAINLESS STEEL A2-18.8 A4-316
KNURLED THUMB SCREW	M3 TO M10		STAINLESS STEEL A2-18.8 A4-316
KNURLED THUMB NUTS (Thin type/High Type)	M3 TO M10		STAINLESS STEEL A2-18.8 A4-316
EYE BOLTS (Hot Forging)	M6 TO M24		STAINLESS STEEL A2-18.8 A4-316
SLOTTED CHEESE HEAD SCREW WITH LARGE END	M3 TO M10		STAINLESS STEEL A2-18.8 A4-316
SLOTTED CHEESE HEAD SHOULDER SCREWS	M3 TO M10		STAINLESS STEEL A2-18.8 A4-316
ROUND HEAD RIVET	M3 TO M8		STAINLESS STEEL A2-18.8 A4-316
CSK HEAD RIVET	M3 TO M8		STAINLESS STEEL A2-18.8 A4-316

## PINS

DESCRIPTION	PRODUCT RANGE		MATERIAL & GRADE
	METRIC	INCHES	
TAPER PIN	Ø1.5 TO Ø25	Ø1/16" TO 1"	STAINLESS STEEL A2-18.8 A4-316

(ROUND END	Ø1.5 TO Ø25	Ø1/16" TO 1"	STAINLESS STEEL A2-18.8 A4-316 410 416
DOWEL PIN (FLAT END) / Parallel Pin	Ø1.5 TO Ø25	Ø1/16" TO 1"	STAINLESS STEEL A2-18.8 A4-316 410 416
DOWEL PIN (ROUND END) / Parallel Pin	Ø1.5 TO Ø25	Ø1/16" TO 1"	STAINLESS STEEL A2-18.8 A4-316 410 416
TAPER PIN WITH THREADED ENDS	Ø5 to Ø25	Ø1/4" TO Ø1"	STAINLESS STEEL A2-18.8 A4-316 410 416
TAPER PINS WITH INTERNAL THREADS	Ø5 to Ø25	Ø1/4" TO Ø1"	STAINLESS STEEL A2-18.8 A4-316 410 416
CLEVIS PIN WITH HEAD	Ø5 to Ø25	Ø1/4" TO Ø1"	STAINLESS STEEL A2-18.8 A4-316 410 416

## STUDS

DESCRIPTION	PRODUCT RANGE		MATERIAL & GRADE
	METRIC	INCHES	
DOUBLE ENDED STUDS	M6 TO M24		STAINLESS STEEL A2-18.8 A4-316 410 416
			STAINLESS STEEL A2-18.8

<b>THREADED STUDS</b> (Threaded Rods/Threaded Pins)	M6 TO M36	A2-10.0 A4-316 410 416
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<b>PLUGS</b>	
<b>DESCRIPTION</b>	<b>PRODUCT RANGE</b>
<b>HEXAGON SOCKET PIPE PLUGS</b>	M8 TO M30
<b>HEXAGON SOCKET SCREW PLUG</b>	
<b>HEXAGON HEAD PIPE PLUGS</b>	
<b>HEXAGON HEAD SCREW PLUG</b>	
<b>HEXAGON HEAD SCREW PLUG</b>	

<b>DESCRIPTION</b>
<b>PIPE LOCK NUTS</b>
<b>HEXAGON THIN LOCK NUTS</b>
<b>HEX NUT</b>
<b>SQUARE NUT WITH CHAMFER</b>
<b>HEX CAP NUTS</b>
<b>HEX NUT</b>
<b>HEX SLOTTED CASTLE NUT</b>
<b>HEX THIN LOCK NUT</b>
<b>HEX THIN SLOTTED CASTLE NUT</b>
<b>ACORN NUT</b>
<b>HEX DOMED CAP NUTS</b>
<b>HEX NUTS</b>
<b>1,5 d, One Spherical Face, One Plain</b>
<b>HEX NUT WITH COLLAR</b>
<b>1,5 d</b>
<b>SLOTTED ROUND NUT FOR HOOK SPANNER</b>

DESCRIPTION
SHAFT COLLAR HEAVY RANGE (Adjusting Ring)
SHAFT COLLAR LIGHT RANGE (Adjusting Ring)

S.NO	STANDARDS			
	DIN	ISO	ANSI/ ASME	BS
1		7379	B.18.3	
2	609/610			
3		7380	B.18.3	
4	7991	10642	B.18.3	2470
5	912	4762	B.18.3	2470
6	7984		B.18.3	
7	931 / 933	4017 / 4014	B.18.2.1	1768 / 1083
8	6921			
9				
10	913/914/915/916	4026/4027/4028/4029	B.18.3	2470
11			B.18.6.2	

12	417/427/438/551/553	7435/2342/7436/4766/7434		
13				
14	478		B.18.6.2	
15	479		B.18.6.2	
16	480		B.18.6.2	
17	464 / 653			
18	466/467			
19	444			
20	921			
21	923			
22	660	1051		
23	661			

STANDARDS				
S.NO	DIN	ISO	ANSI/ ASME	BS
1	1	2339	B.18.8.2	
2	7	2338	B.18.8.2	

3	6325	8734	B.18.8.2	
4	7979-D		B.18.8.2	
5	7977	8737		
6	7978	8736		
7	1471	8744		
8	1472	8745		
9	1473	8740		
10	1474	8741		
11	1476	8746		
12		2341	B.18.8.2	

STANDARDS				
S.NO	DIN	ISO	ANSI/ ASME	BS
1	525			
2	835 / 938 /939			
3	976			

PIPE PLUGS / SCREW				
S.NO	DIN	ISO	ANSI/ ASME	BS
1	906		B.1.20.3	
2	908		B.1.20.3	

3	909			
4	910		B.1.20.3	
5	7604			

<b>NUTS</b>				
S.NO	STANDARDS			
	DIN	ISO	ANSI/ ASME	BS
1	431			
2	439	4035		
		8675		
		4036		
3	555	4034		
4	557			
5	917			
6	928			
7	929			
8	934	4032/3		
		8673/4		
9	935	7035/6		
10	936	4035		
11	937	7038		
12	1587			
13	6330			
14	6331			
15	1804			

<b>KEYS</b>				
S.NO	STANDARDS			
	DIN	ISO	ANSI/ ASME	BS
1	6885	773		
2	6888			

**RINGS / SHAFT COLLARS**

S.NO	STANDARDS			
	DIN	ISO	ANSI/ ASME	BS
1	703			
2	705			

## TS & SCREWS

DESCRIPTION	PRODUCT RANGE		MATERIAL & GRADE
	METRIC	INCHES	
HEXAGON SOCKET HEAD SHOULDER SCREWS	Ø4 to Ø36	Ø1/8" TO Ø1.1/2"	ALLOY STEEL HRC 38-48 Grade 12.9
HEX SHOULDER SCREWS (HEX FIT BOLTS)	M6 TO M42		ALLOY STEEL Grade : 8.8/10.9/12.9
HEXAGON SOCKET BUTTON HEAD CAP SCREWS	M2 TO M16	#4 TO 5/8"	ALLOY STEEL Grade : 8.8/10.9/12.9
HEXAGON COUNTER SUNK HEAD CSK SCREWS	M2 TO M52	#10 TO 1.1/2"	ALLOY STEEL Grade : 8.8/10.9/12.9
HEXAGON SOCKET HEAD CAP SCREWS	M4 TO M42	#10 TO 1.1/2"	ALLOY STEEL Grade : 8.8/10.9/12.9
HEXAGON SOCKET LOW HEAD CAP SCREWS	M6 TO M24	1/4" TO 1"	ALLOY STEEL Grade : 8.8/10.9/12.9
HEX HEAD SCREWS / BOLTS	M4 TO M42	1/4" TO 1.1/2"	STEEL Grade : 5.8 ALLOY STEEL Grade : 8.8/10.9/12.9
HEX HEAD FLANGE SCREW/BOLT	M4 TO M24	1/4" TO 1"	ALLOY STEEL Grade : 8.8/10.9/12.9
SIX LOBE SCREWS	M2 TO M24	#10 TO 1"	STEEL Grade : 5.8 ALLOY STEEL Grade : 8.8/10.9/12.9
SOCKET SET SCREWS	M3 TO M10	3/16" 3/8"	ALLOY STEEL Grade : 8.8/10.9/12.9
SQUARE HEAD SET SCREWS	"	#10 TO 1	ALLOY STEEL Grade : 8.8/10.9/12.9
CLOTTED GRID SCREWS			ALLOY STEEL

SLOTTED GRUB SCREWS (Slotted Set Screw)	M3 TO M24	3/16" TO 1"	ALLOY STEEL Grade : 8.8/10.9/12.9
MACHINE SCREWS (Pan Head/Button Head/CSK/Cheese head/Round Head/Oval Head/Cross recessed CSK/Cross Raised CSK /Slotted capstan)	M3 TO M8	#4 to 3/8"	STEEL Grade : 5.8 ALLOY STEEL Grade : 8.8
SQUARE HEAD BOLT WITH COLLAR	M5 TO M20	1/4" TO 3/4"	ALLOY STEEL GRADE 8.8/10.9
SQUARE HEAD BOLT WITH SHORT DOG POINT	M5 TO M20	1/4" TO 3/4"	ALLOY STEEL GRADE 8.8/10.9
SQUARE HEAD BOLT WITH COLLAR HALF DOG POINT AND ROUNDED END	M5 TO M20	1/4" TO 3/4"	ALLOY STEEL GRADE 10.9
KNURLED THUMB SCREW	M3 TO M10		STEEL GRADE : 5.8
KNURLED THUMB NUTS (Thin type/High Type)	M3 TO M10		STEEL GRADE : 5.8
Eye Bolts (Hot Forging)	M6 TO M24		STEEL GRADE : 5.8 ALLOY STEEL GRADE 8.8/10.9
SLOTTED CHEESE HEAD SCREW WITH LARGE END	M3 TO M10		STEEL GRADE : 5.8 ALLOY STEEL GRADE 8.8/10.9
SLOTTED CHEESE HEAD SHOULDER SCREWS	M3 TO M10		STEEL GRADE : 5.8 ALLOY STEEL GRADE 8.8/10.9
ROUND HEAD RIVET	M3 TO M8		STEEL
CSK HEAD RIVET	M3 TO M8		STEEL

## PINS

DESCRIPTION	PRODUCT RANGE		MATERIAL & GRADE
	METRIC	INCHES	
TAPER PIN (ROUND END)	Ø1.5 TO Ø25	Ø1/16" TO 1"	STEEL Grade: 5.8 ALLOY STEEL
DOWEL PIN (FLAT END) / Parallel Pin	Ø1.5 TO Ø25	Ø1/16" TO 1"	STEEL Grade: 5.8 ALLOY STEEL
DOWEL PIN			

<b>(ROUND END) / Parallel Pin</b>	Ø1.5 TO Ø25	Ø1/16" TO 1"	<b>ALLOY STEEL</b>
<b>PULL OUT DOWEL PIN (Hardened &amp; Ground) / Parallel Pin with internal threads</b>	Ø5 to Ø25	Ø1/4" TO Ø1"	<b>ALLOY STEEL</b>
<b>TAPER PIN WITH THREADED ENDS</b>	Ø5 to Ø25	Ø1/4" TO Ø1"	<b>ALLOY STEEL</b>
<b>TAPER PINS WITH INTERNAL THREADS</b>	Ø5 to Ø25	Ø1/4" TO Ø1"	<b>ALLOY STEEL</b>
<b>GROOVED PIN (Full Length Taper Grooved)</b>	Ø5 to Ø25	Ø1/4" TO Ø1"	<b>STEEL / ALLOY STEEL</b>
<b>GROOVED PIN (Half Length Taper Grooved)</b>	Ø5 to Ø25	Ø1/4" TO Ø1"	<b>STEEL / ALLOY STEEL</b>
<b>GROOVED PIN (Full Length Parallel Grooved with chamfer)</b>	Ø5 to Ø25	Ø1/4" TO Ø1"	<b>STEEL / ALLOY STEEL</b>
<b>GROOVED PIN (Half Length Reverse Grooved)</b>	Ø5 to Ø25	Ø1/4" TO Ø1"	<b>STEEL / ALLOY STEEL</b>
<b>GROOVED PIN with Round Head</b>	Ø5 to Ø25	Ø1/4" TO Ø1"	<b>STEEL / ALLOY STEEL</b>
<b>CLEVIS PIN WITH HEAD</b>	Ø5 to Ø25	Ø1/4" TO Ø1"	<b>ALLOY STEEL</b>

## STUDS

DESCRIPTION	PRODUCT RANGE		MATERIAL & GRADE
	METRIC	INCHES	
<b>SINGLE ENDED STUDS (Studs for welding)</b>	M6 TO M24		<b>ALLOY STEEL Grade : 8.8/10.9</b>
<b>DOUBLE ENDED STUDS</b>	M6 TO M24		<b>ALLOY STEEL Grade : 8.8/10.10</b>
<b>THREADED STUDS (Threaded Rods/Threaded Pins)</b>	M6 TO M36		<b>STEEL ALLOY STEEL</b>

## PLUGS

DESCRIPTION	PRODUCT RANGE
<b>HEXAGON SOCKET PIPE PLUGS</b>	
<b>HEXAGON SOCKET SCREW PLUG</b>	
	M8 TO M20

<b>HEXAGON HEAD PIPE PLUGS</b>	1110 10 1150
<b>HEXAGON HEAD SCREW PLUG</b>	
<b>HEXAGON HEAD SCREW PLUG</b>	

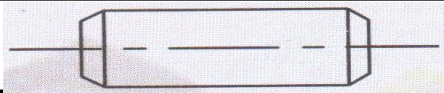

<b>DESCRIPTION</b>
<b>PIPE LOCK NUTS</b>
<b>HEXAGON THIN LOCK NUTS</b>
<b>HEX NUT</b>
<b>SQUARE NUT WITH CHAMFER</b>
<b>HEX CAP NUTS</b>
<b>SQUARE WELD NUT</b>
<b>HEX WELD NUT</b>
<b>HEX NUT</b>
<b>HEX SLOTTED CASTLE NUT</b>
<b>HEX THIN LOCK NUT</b>
<b>HEX THIN SLOTTED CASTLE NUT</b>
<b>ACORN NUT</b>
<b>HEX DOMED CAP NUTS</b>
<b>HEX NUTS</b>
<b>1,5 d, One Spherical Face, One Plain</b>
<b>HEX NUT WITH COLLAR</b>
<b>1,5 d</b>
<b>SLOTTED ROUND NUT FOR HOOK SPANNER</b>

<b>DESCRIPTION</b>
<b>PARALLEL KEYS</b>
<b>TAPER KEYS</b>
<b>WOODRUFF KEYS</b>

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<b>DESCRIPTION</b>
<b>SHAFT COLLAR HEAVY RANGE (Adjusting Ring)</b>
<b>SHAFT COLLAR LIGHT RANGE (Adjusting Ring)</b>



<b>Panel Screw Retainers</b>		X	X	X	X	X	X	X	X
<b>Precision Dowel Pins</b>		X	X		X	X	X	X	X
<b>Small Machine Screws (All Types)</b>		X	X	X	X	X	X	X	X
<b>Special Nuts</b>		X	X	X	X	X			X
<b>Special components as per drawing</b>		X	X	X	X	X	X	X	X