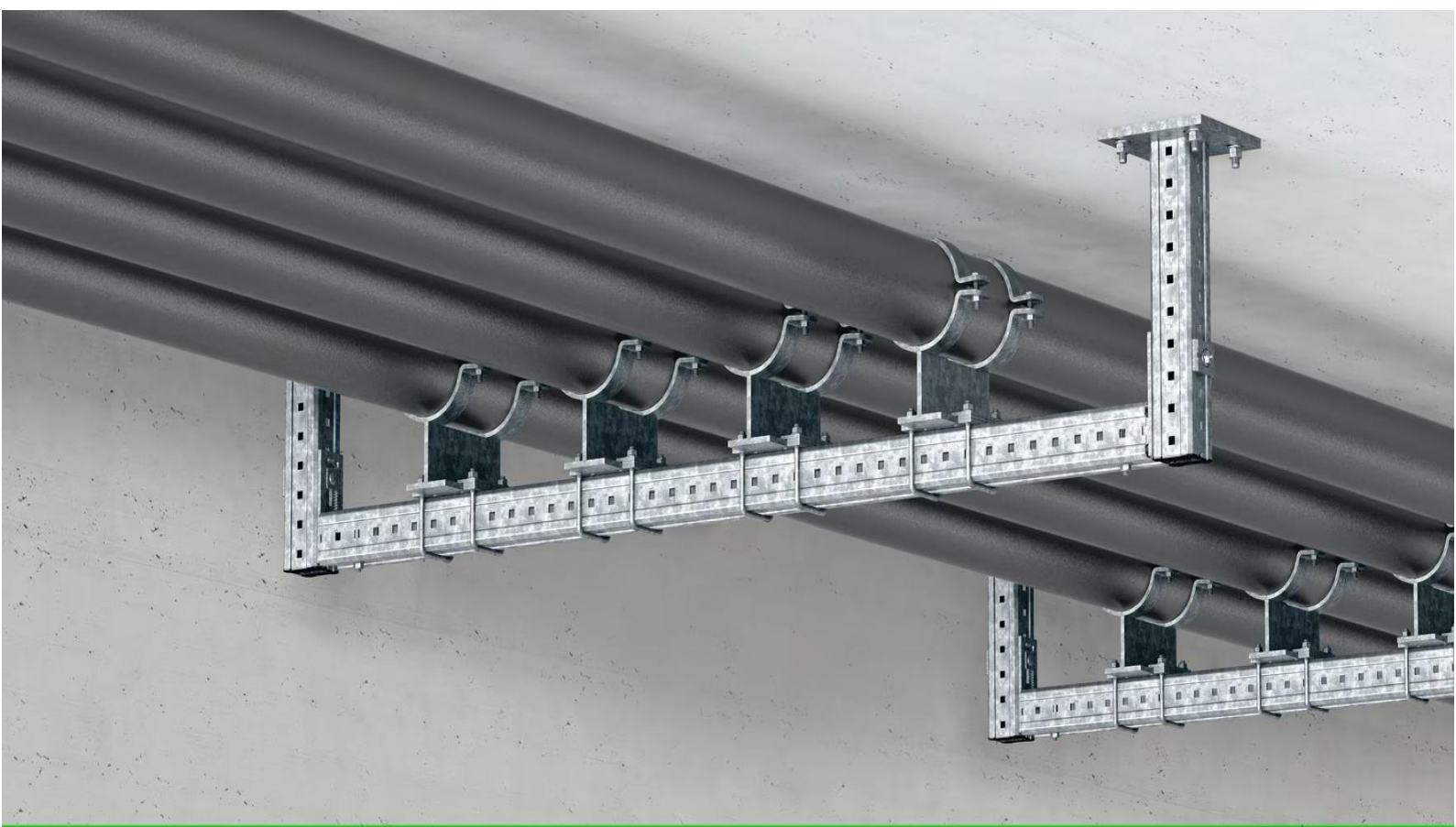


PIPE HANGERS & SUPPORTS



Product Name

Product Name: Pipe Clamp

Material

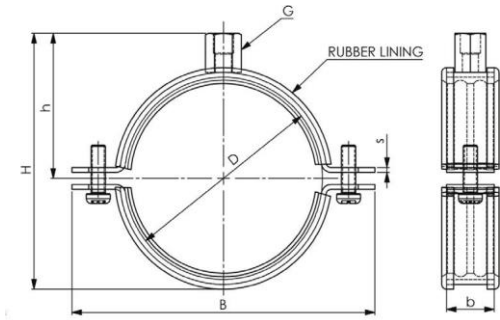
Carbon steel

Finish

Galvanized, Steel Hot Dip Galvanized,
Stainless Steel

Applications

Pipe support. temperature
resistance from -20 °C to
+110 °C



Pipe diameter	Nominal diameter	Rod Size	h	b	s	s1	Max Rec load
"	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(KN)
3/8	15	15 - 19	M8/M10	60	36	26	2.1
1/2	22	20 - 25	M8/M10	65	43	29	2.1
3/4	28	26 - 30	M8/M10	70	50	32	2.1
1	35	32 - 36	M8/M10	85	56	36	2.1
1 1/4	42	38 - 43	M8/M10	92	63	39	2.1
1 1/2	48	47 - 51	M8/M10	98	72	42	2.1
-	54	53 - 58	M8/M10	104	75	45	2.1
2	60	60 - 64	M8/M10	110	81	48	2.1
-	63	63 - 66	M8/M10	115	88	51	2.1
-	70	68 - 72	M8/M10	120	91	53	2.1
2 1/2	75	74 - 80	M8/M10	125	96	56	2.1
-	83	81 - 86	M8/M10	139	108	60	2.1
3	90	87 - 92	M8/M10	146	111	63	2.85
3 1/2	100	99 - 105	M8/M10	156	121	68	2.85
-	110	107 - 112	M8/M10	166	131	73	2.85
4	115	113 - 118	M8/M10	171	136	76	2.85
-	125	125 - 130	M8/M10	181	146	81	2.85
-	133	131 - 137	M8/M10	184	154	85	2.85
5	140	138 - 142	M8/M10	196	161	88	2.85
-	150	148 - 153	M8/M10	206	171	93	2.85
-	160	159 - 166	M8/M10	216	181	98	2.85
6	168	168 - 172	M8/M10	224	189	102	2.85
-	200	200 - 212	M8/M10	256	221	118	2.85
8	220	215 - 220	M8/M10	276	241	128	2.85
-	250	249	M8/M10	306	271	143	2.85
-	315	313 - 318	M8/M10	371	336	176	2.85

Product Name

Adjustable Roller Hanger

Material

Socket: Carbon Steel / Roller: Solid Steel

Finish

Hot Dip Galvanized.

Applications

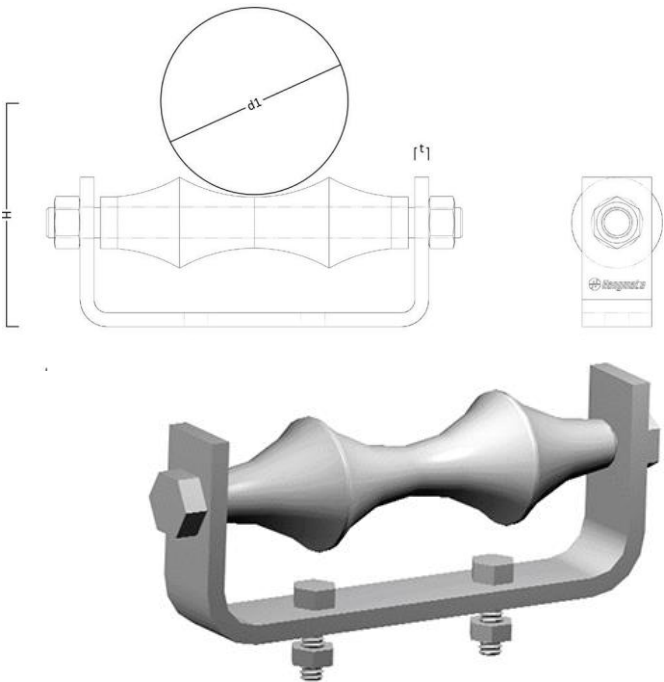
Pipe support.

Size range

2" to 30".

Complies with Manufacturers Standardization Society MSS SP-58 & MSS SP-69 -Type 41.

Can be used with Zohan Engineering Insulation Shield.



Pipe diameter	Nominal diameter	Rod Size	h	b	s	s1	Max Rec load
"	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(KN)
½	22	M10	70	25	25	3	4.0
¾	28	M10	76	25	25	3	4.0
1	35	M10	82	25	25	3	4.0
1¼	42	M10	92	25	25	3	4.0
1½	48	M10	100	25	25	3	4.0
2	60	M10	117	25	25	3	4.0
2½	73	M10	146	25	25	4	6.5
3	89	M10	155	25	25	4	6.5
3½	105	M10	173	25	25	4	6.5
4	115	M10	198	32	32	6	8.0
5	140	M12	232	32	32	6	8.0
6	168	M12	266	40	40	6	11.0
8	219	M12	338	40	40	6	11.0
10	273	M16	419	40	40	6	11
12	323	M20	490	50	50	10	15
14	355	M20	556	50	50	10	15
16	406	M24	610	65	65	12	17.5
18	457	M24	675	65	65	12	17.5
20	508	M30	715	75	75	12	22
24	610	M30	850	75	75	16	27
30	755	M30	995	75	75	20	30

Product Name

DOUBLE PIPE CLAMPS

Material

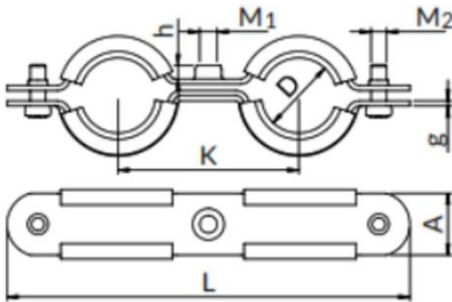
Carbon steel

Finish

Galvanized, Steel Hot Dip Galvanized,
Stainless Steel

Applications

Pipe support.



diameter	Rod Size	L	K	A x g	Max Rec load
(mm)	(mm)	(mm)	(mm)	(mm)	(KN)
1518-	M8/M10	116.1	48	19.8 x2,0	0.3
2023-	M8/M10	128.8	54	19.8 x2,0	0.3
2629-	M8/M10	155.6	70	24x2,0	0.3
3134-	M8/M10	156.8	70	24x2,0	0.3

Product Name

Two Bolt Clamp

Material

Carbon steel
two bolt arrangement provides sturdier support.

Finish

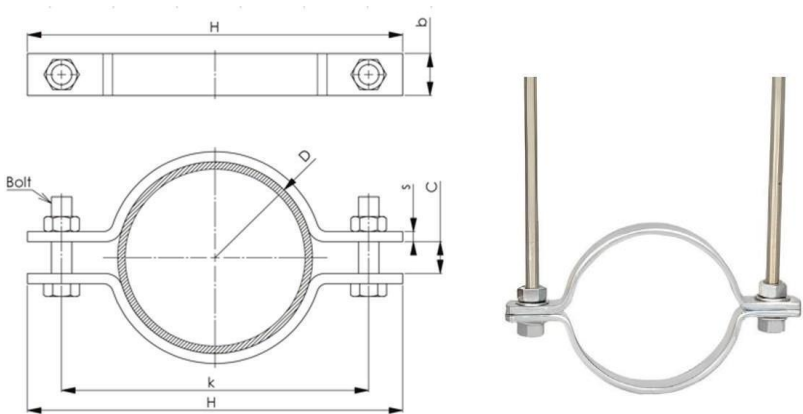
Galvanized, Steel Hot Dip Galvanized,
Stainless Steel

Applications

Pipe support.

Designed to suspend cold and hot pipes where little
or no insulation is required.

Complies with Manufacturers Standardization
Society MSS SP-58 & MSS SP-69 -Type 4.
Available with EPDM Rubber Lining.



Pipe diameter	Nominal diameter	Bolt Size	K	H	C	Max Rec load
"	(mm)	(mm)	(mm)	(mm)	(mm)	(KN)
12 /"	22	M10	68	97	12	1.7
34 /"	28	M10	76	105	12	1.7
1	35	M10	84	113	12	1.7
14 /1 -"	40	M10	92	121	12	1.7
12 /1 -"	48	M10	98	127	12	1.7
2"	60	M10	116	156	16	1.7
22 /1 -"	75	M12	142	182	16	4
3"	90	M12	156	196	16	4
32 /1 -"	100	M12	168	208	16	4
4"	115	M12	180	220	19	4
5"	140	M16	214	252	19	6
6"	168	M16	242	290	22	6
8"	220	M16	152	352	25	11
10"	273	M16	358	406	25	12
12"	323	M20	430	490	25	15
14"	355	M20	480	546	28	15
16"	406	M20	532	597	28	22
18"	457	M20	610	686	32	22
20"	508	M20	680	776	35	22
24"	610	M20	780	876	42	22

Product Name

Duct Clamp

Material

Carbon steel

Finish

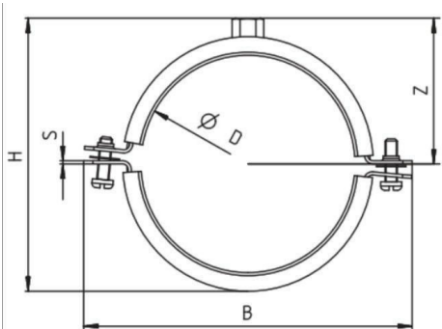
Galvanized, Steel Hot Dip Galvanized,

Stainless Steel

Applications

round Duct support.

temperature resistance from 50 °C to +100 °C



Range	Rod Size	H	B	b x s	Max Rec load
(mm)	(mm)	(mm)	(mm)	(mm)	(KN)
80	M8/M10	110	134	25 x 1.25	0.87
90	M8/M10	120	144	25 x 1.25	0.87
100	M8/M10	131	155	25 x 1.25	0.87
112	M8/M10	143	167	25 x 1.25	0.87
125	M8/M10	156	180	25 x 1.25	0.87
140	M8/M10	171	195	25 x 1.25	0.87
150	M8/M10	181	205	25 x 1.25	0.87
160	M8/M10	191	215	25 x 1.25	0.87
180	M8/M10	211	235	25 x 1.25	0.87
200	M8/M10	231	255	25 x 1.25	0.87
224	M8/M10	255	279	25 x 1.5	0.87
250	M8/M10	281	305	25 x 1.5	0.87
280	M8/M10	311	335	25 x 1.5	0.87
300	M8/M10	331	356	25 x 1.5	0.87
315	M8/M10	347	371	25 x 1.5	0.87
355	M8/M10	387	411	25 x 1.5	0.87
400	M8/M10	431	356	25 x 1.5	0.87
450	M8/M10	485	524	25 x 2.5	1.21
500	M8/M10	535	574	25 x 2.5	1.21
560	M8/M10	595	634	25 x 2.5	1.21
600	M8/M10	635	674	25 x 2.5	1.21
630	M8/M10	665	705	25 x 3.0	1.21
710	M8/M10	745	785	25 x 3.0	1.21
800	M8/M10	835	875	25 x 3.0	1.21
900	M8/M10	935	975	25 x 3.0	1.21
1000	M8/M10	1035	1075	25 x 3.0	1.21
1120	M8/M10	1155	1195	25 x 3.0	1.21
1250	M8/M10	1285	1326	25 x 3.0	1.21

Product Name

DUPLO-Solar

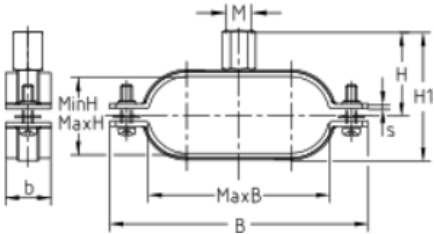
Clamp for fastening header pipes and return lines from the collector to the heat accumulator for solar heating systems.

Finish

Galvanized, Steel Hot Dip Galvanized, Stainless Steel

Applications

Pipe support.



Pipe range	Rod Size	B	H	H1	Max Rec load
H X B (mm)	(mm)	(mm)	(mm)	(mm)	(KN)
55 X 80	M8/M10	120	37	57	2
65 X 95	M8/M10	134	39	61	2
60 X 115	M8/M10	154	42	67	2
75 X 125	M8/M10	164	44	71	2

Product Name

Swivel Loop Hanger

Material

Carbon steel

Finish

Galvanized, Steel Hot Dip Galvanized,
Stainless Steel

Applications

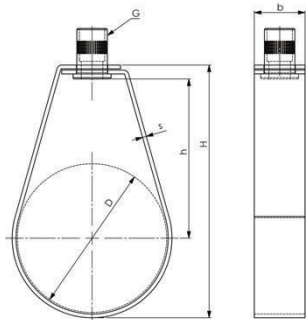
Pipe support.
temperature resistance from -20 °C to+110 °C

Size range

1/2" to 10".
Complies with Manufacturers Standardization
Society MSS SP-58 & MSS SP-69 - Type 8.

Available with EPDM Rubber Lining. UL

listed.



Pipe diameter	Nominal diameter	Rod Size	h	Max Rec load
"	(mm)	(mm)	(mm)	(KN)
¾	28	M10	61	3.0
1	35	M10	61	3.0
1¼	42	M10	75	3.0
1½	48	M10	81	3.0
2	60	M10	100	3.0
2½	73	M10	120	4.5
3	89	M10	135	4.5
3½	105	M10	150	4.5
4	115	M10	165	5.5
5	140	M12	195	6.5
6	168	M12	230	7.5
8	219	M12	290	9.0
10	273	M12	315	9.0

Product Name

Clevis Pipe Hanger

Material

Carbon steel

Finish

Galvanized, Steel Hot Dip Galvanized,
Stainless Steel

Applications

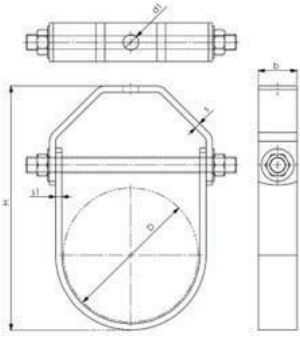
Pipe support

Size range

1/2" to 30".

Comply with Federal Specification WW-H-171 E.

Comply with MSS Standard SP-58, type
1 and SP-69



Pipe diameter	Nominal Diameter	Rod Size	h	b	s	s1	Max Rec load
"	(mm)		(mm)	(mm)	(mm)	(mm)	(KN)
½	22	M10	70	25	25	3	4.0
¾	28	M10	76	25	25	3	4.0
1	35	M10	82	25	25	3	4.0
1¼	42	M10	92	25	25	3	4.0
1½	48	M10	100	25	25	3	4.0
2	60	M10	117	25	25	3	4.0
2½	73	M10	146	25	25	4	6.5
3	89	M10	155	25	25	4	6.5
3½	105	M10	173	25	25	4	6.5
4	115	M10	198	32	32	6	8.0
5	140	M12	232	32	32	6	8.0
6	168	M12	266	40	40	6	11.0
8	219	M12	338	40	40	6	11.0
10	273	M16	419	40	40	6	11
12	323	M20	490	50	50	10	15
14	355	M20	556	50	50	10	15
16	406	M24	610	65	65	12	17.5
18	457	M24	675	65	65	12	17.5
20	508	M30	715	75	75	12	22
24	610	M30	850	75	75	16	27
30	755	M30	995	75	75	20	30

Product Name

U Bolt

Material

Carbon steel

Finish

Galvanized, Steel Hot Dip Galvanized,
Stainless Steel

Applications

Pipe support.

Size range

1/2" to 24".

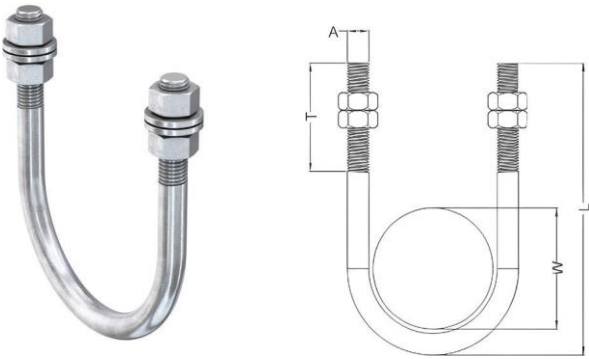
Designed to support or guide the pipe runs.

Complies with Manufacturers Standardization Society MSS SP-58 & MSS SP-69 -
Type 24.

Special U bolts with longer tangents and threads available on request Available

with EPDM Rubber Lining.

Supplied with four nuts.



Pipe diameter	Nominal diameter W	A	L	Max Rec load
"	(mm)	(mm)	(mm)	(KN)
½	21	M10	65	6.0
¾	27	M10	77	6.0
1	34	M10	85	6.0
1¼	43	M10	93	6.0
1½	48	M10	100	6.0
2	60	M10	110	6.0
2½	76	M12	127	10.0
3	89	M12	140	10.0
4	115	M12	165	10.0
5	140	M12	190	10.0
6	168	M12	220	10.0
8	219	M16	295	20.0
10	273	M20	370	32.5
12	324	M20	420	32.5
14	356	M20	455	32.5
16	406	M20	505	32.5
18	457	M24	555	45.0
20	508	M24	605	45.0
24	610	M24	710	45.0

Product Name

Riser Clamp

Material

Carbon steel

Finish

Galvanized, Steel Hot Dip Galvanized,
Stainless Steel

Applications

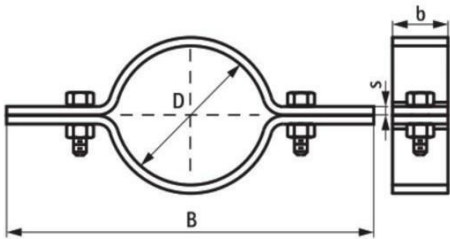
Pipe support.

Size range

Complies with Manufacturers Standardization
Society MSS SP-58 & MSS SP-69 - Type 8.

Available with EPDM Rubber Lining. UL

listed.



Pipe diameter	Nominal diameter	Bolt	B	b x s	Max Rec load
"	(mm)	(mm)	(mm)	(mm)	(KN)
½	21	M10	200	25 x 5.0	1.4
¾	27	M10	210	25 x 5.0	1.4
1	34	M10	230	25 x 5.0	1.4
1¼	43	M10	260	25 x 5.0	1.4
1½	48	M10	260	25 x 5.0	1.5
2	60	M10	260	25 x 5.0	1.5
2½	76	M12	290	25 x 6.0	3.8
3	89	M12	290	25 x 6.0	3.8
3½	115	M12	330	25 x 6.0	3.8
4	140	M12	330	25 x 6.0	3.8
5	168	M16	350	40 x 6.0	6.6
6	219	M16	380	40 x 6.0	6.6
8	273	M16	470	40 x 10.0	11.0
10	324	M16	520	50 x 10	12.0
12	356	M20	580	50 x 12.0	15.0
14	406	M20	610	50 x 12.0	18.0
16	457	M20	660	60 x 16.0	20.0
18	508	M20	710	60 x 16.0	20.0
20	610	M20	760	60 x 16.0	22.0
24	880	M20	880	60 x 16.0	22.0

Product Name

Insulation Shield

used between hanger surface and insulated pipes to prevent crushing of insulation

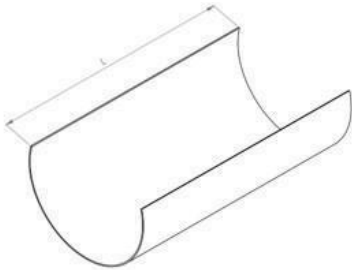
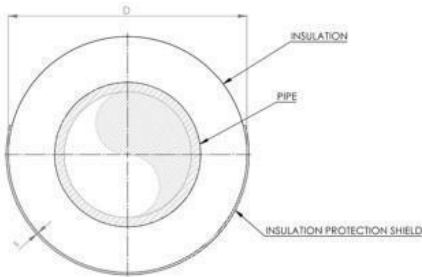
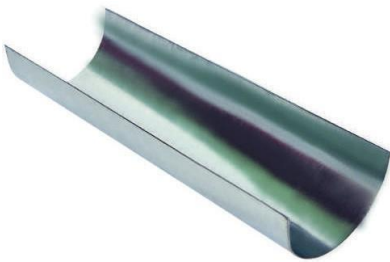
Finish

Galvanized, Steel Hot Dip Galvanized, Stainless Steel

Applications

Pipe support.

Comply with MSS Standard
SP-58-2002, type 40



Nominal diameter	L	S
(mm)	(mm)	(mm)
48.2	300	1.3
60.4	300	1.3
73.1	300	1.3
88.9	300	1.3
101.6	300	1.3
114.23	300	1.3
127	300	1.3
141.2	300	1.3
168.6	300	1.3
194	300	1.3
219.4	300	1.3
194	460	1.6
219	460	1.6
244.8	460	1.6
273.3	460	1.6
298.7	615	1.9
324.1	615	1.9
355.6	615	1.9
381	615	1.9
406.4	615	1.9
431.8	615	1.9
457.2	615	2.7
482.6	615	2.7
508	615	2.7
533.4	615	2.7

Product Name

Rubber Support Insert

Material

Compounded Rubber

density

1,100 – 1,400 kg/m3

thermal conductivity

add Thermal Conductivity: 0.16 W/m.K

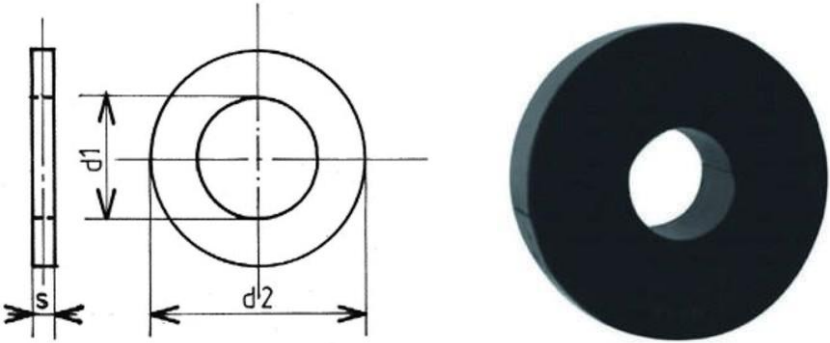
Applications

add (Compressive Strength: 350 kg/cm²)

Size range

1/2" to 24".

designed to meet BS3974-1: 1974



Pipe diameter	D	Nominal diameter	B	13	19	25	32	38	50	65	75
"	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
½	15	21.3	25	121325	121925	122525	123225	123825	125025	126525	127525
¾	20	26.7	25	341325	341925	342525	343225	343825	345025	346525	347525
1	25	33.4	25	11325	11925	12525	13225	13825	15025	16525	17525
1¼	32	42.1	25	1141325	1141925	1E+06	1E+06	1E+06	1E+06	1E+06	1E+06
1½	40	48.2	25	1121325	1121925	1E+06	1E+06	1E+06	1E+06	1E+06	1E+06
2	50	60.3	25	21325	21925	22525	23225	23825	25025	26525	27525
2½	65	73	38	2121338	2121938	2E+06	2E+06	2E+06	2E+06	2E+06	2E+06
3	80	88.9	38	31338	31938	32538	33238	33838	35038	36538	37538
3½	90	101.6	38	3121338	3121938	3E+06	3E+06	3E+06	3E+06	3E+06	3E+06
4	100	114.3	38	41338	41938	42538	43238	43838	45038	46538	47538
5	125	141.3	38	51338	51938	52538	53238	53838	55038	56538	57538
6	150	168.3	50	61350	61950	62550	63250	63850	65050	66550	67550
8	200	219.1	50	81350	81950	82550	83250	83850	85050	86550	87550
10	250	273	50	101350	101950	102550	103250	103850	105050	106550	107550
12	300	323.8	50	121350	121950	122550	123250	123850	125050	126550	127550
14	350	355.6	50	141350	141950	142550	143250	143850	145050	146550	147550
16	400	406.4	50	161350	161950	162550	163250	163850	165050	166550	167550
18	450	457.2	50	181350	181950	182550	183250	183850	185050	186550	187550
20	500	508	50	201350	201950	202550	203250	203850	205050	206550	207550
24	600	609.6	50	241350	241950	242550	243250	243850	245050	246550	247550

Product Name

U- Strap

Material

Carbon steel

Finish

Galvanized, Steel Hot Dip Galvanized,
Stainless Steel

Applications

Pipe support.

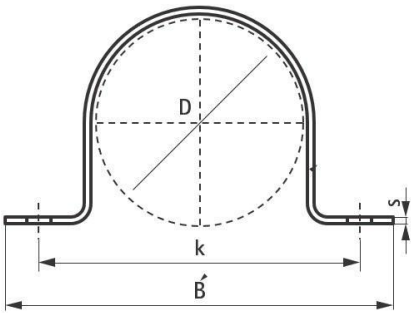
Size range

1/2" to 24".

Designed for mounting plain or insulated pipes.

Complies with Manufacturers Standardization
Society MSS SP-58 & MSS SP-69 -Type 26.

Special U-Straps with special sizes available on request Available with
EPDM Rubber Lining.
Can be used with Zohan Engineering Rubber Support Inserts.



Pipe diameter	Nominal diameter W	A	L	Max Rec load
"	(mm)	(mm)	(mm)	(KN)
½	21	M10	65	6.0
¾	27	M10	77	6.0
1	34	M10	85	6.0
1¼	43	M10	93	6.0
1½	48	M10	100	6.0
2	60	M10	110	6.0
2½	76	M12	127	10.0
3	89	M12	140	10.0
4	115	M12	165	10.0
5	140	M12	190	10.0
6	168	M12	220	10.0
8	219	M16	295	20.0
10	273	M20	370	32.5
12	324	M20	420	32.5
14	356	M20	455	32.5
16	406	M20	505	32.5
18	457	M24	555	45.0
20	508	M24	605	45.0
24	610	M24	710	45.0

Product Name

Strut Pipe Clamp

Material

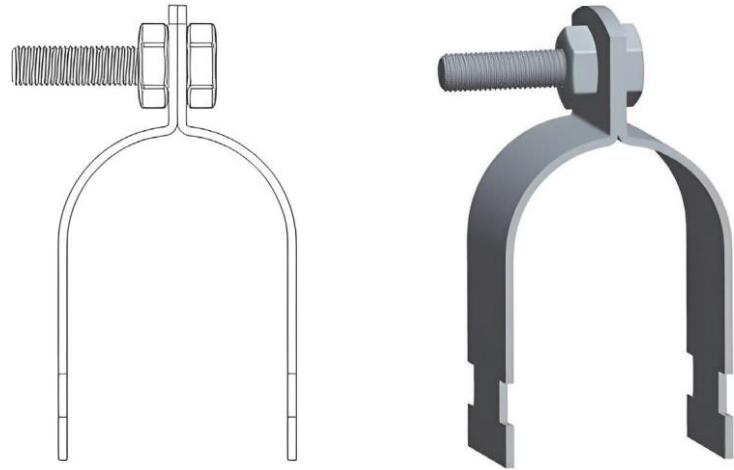
Carbon steel

Finish

Galvanized, Steel Hot Dip Galvanized,
Stainless Steel

Applications

Pipe and conduit support



Pipe diameter	Size	Max Rec load
Inch	(mm)	(KN)
38 /"	10	1.8
12 /"	15	1.85
34 /"	20	2.8
1 "	25	2.9
1 14 /"	32	2.9
1 12 /"	40	2.9
2"	50	3
2 12 /"	65	3.5
3"	75	3.6
3 12 /"	90	3.6
4"	100	3.8
5"	125	3.8
6"	150	3.8
8"	200	3.8
10"	250	4.8
12"	300	4.8

FASTENERS

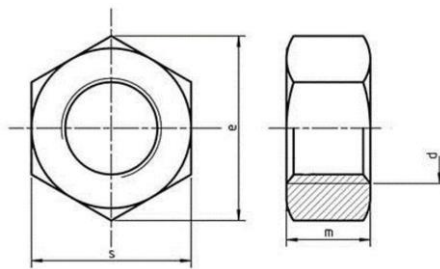


Product Name

Hex Nut DIN 934

Finish

Galvanized, Steel Hot Dip Galvanized,
Stainless Steel

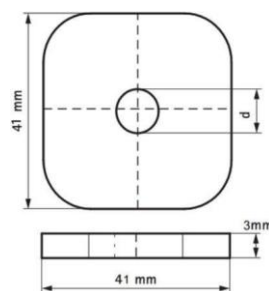


D	S	E	M
"	(mm)	(mm)	(mm)
M6	10.0	11.1	5.0
M8	13.0	14.4	6.5
M10	17.0	18.9	8.0
M12	19.0	21.1	10.0
M16	24.0	26.8	13.0
M20	30.0	33.0	16.0
M24	36.0	39.6	19.0
M27	41.0	45.2	22.0
M30	46.0	50.9	24.0

Product Name

Square Washer

Available in zinc plated, HDG and stainless
steel
versions A2- A



Size	d	Thickness	Width	Length
"	(mm)	(mm)	(mm)	(mm)
M6	7.0	3 & 5	41.0	41.0
M8	9.0	3 & 5	41.0	41.0
M10	11.0	3 & 5	41.0	41.0
M12	13.0	3 & 5	41.0	41.0

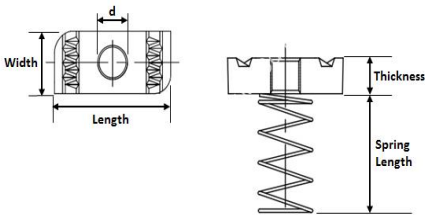
558.8	615	2.7
584.2	615	2.7
609.6	615	2.7
635	615	2.7
660.4	615	2.7
685.8	615	2.7
711.2	615	2.7
736.6	615	2.7
662	615	2.7
812.8	615	2.7

Product Name

Spring Nut

Finish

Galvanized, Steel Hot Dip Galvanized,
Stainless Steel



M	Thickness	Width	Length	Capacity
	(mm)	(mm)	(mm)	(KN)
M6	6.0	35.0	20.0	5.3
M8	6.0	35.0	20.0	6.0
M10	9.0	35.0	20.0	9.5
M12	10.0	35.0	20.0	10.0

Product Name

Swivel Nut

Material

Carbon steel

Finish

Galvanized, Steel Hot Dip Galvanized,
Stainless Steel

Applications

Pipe, Duct and Electrical Support



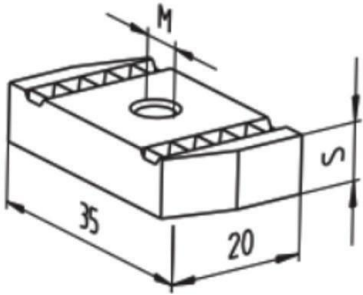
Size	Bolt Size	Max Rec load
(mm)	(mm)	(KN)
M8	M 8	5.7
M10	M8	5.7
M12	M10	6
M16	M12	8

Product Name

Wing Nut

Finish

Galvanized, Steel Hot Dip Galvanized,
Stainless Steel



M	Thickness	Width	Length	Capacity
"	(mm)	(mm)	(mm)	(KN)
M6	6.0	35.0	20.0	5.3
M8	6.0	35.0	20.0	6.0
M10	9.0	35.0	20.0	9.5
M12	10.0	35.0	20.0	10.0

Product Name

Metric DIN 933 Hexagon Bolts Full Thread

Finish

Galvanized, Steel Hot Dip Galvanized,
Stainless Steel



DIN (Deutsches Institut für Normung - German Institute for Standardization) standards are issued for a variety of components including industrial fasteners as Metric DIN 933 Hexagon Head Cap Screws / Bolts. The DIN standards remain common in Germany, Europe and globally even though the transition to ISO standards is taking place.

Chemical composition of steel metric DIN 933 Hexagon Head Cap Screws / Bolts Full Thread

PROPERTY CLASS	MATERIAL AND TREATMENT	CHEMICAL COMPOSITION LIMITS %				TEMPER - ING TEMP °C MIN.
		C		P	S	
		min	max	max	max	
4.6 , 4.8, 5.8,	Low or medium carbon steel	-	0.55	0.05	0.06	-
8.8	Medium carbon steel quenched, tempered	0.25	0.55	0.04	0.05	425
9.8	Medium carbon steel quenched, tempered	0.25	0.55	0.04	0.05	425
10.9	Medium carbon steel additives e.g. boron, Mn,	0.2	0.55	0.04	0.05	425
12.9	Alloy steel - quenched, tempered	0.2	0.5	0.035	0.035	380
6.8	Cr or Alloy steel - quenched, tempered					

Mechanical properties of steel for metric DIN 933 Hexagon Head Cap Screws / Bolts Full Thread

Steel Grade	Dia (mm)	Effective Dia (mm) {Dia x 0.86}	Effective Area (2mm)	N ult (N/mm2)	N yield (N/mm2)	F.O.S	F T (kn)	F SH (kN)
4.6	6	5.16	20.90	400	240	1.4	3.6	2.1
4.6	8	6.88	37.16	400	240	1.4	6.4	3.8
4.6	10	8.60	58.06	400	240	1.4	10.0	6.0
4.6	12	10.32	83.60	400	240	1.4	14.3	8.6
4.6	14	12.04	113.79	400	240	1.4	19.5	11.7
4.6	16	13.76	148.63	400	240	1.4	25.5	15.3
4.6	18	15.48	188.11	400	240	1.4	32.2	19.3

Fasteners

4.6	20	17.20	232.23	400	240	1.4	39.8	23.9
4.6	22	18.92	281.00	400	240	1.4	48.2	28.9
4.6	24	20.64	334.42	400	240	1.4	57.3	34.4
4.6	27	23.22	423.25	400	240	1.4	72.6	43.5
4.6	30	25.80	522.53	400	240	1.4	89.6	53.7

Fasteners

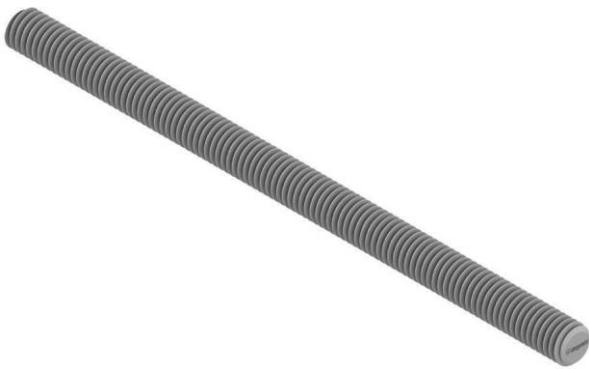
Steel Grade	Dia (mm)	Effective Dia (mm) {Dia x 0.86}	Effective Area (2mm)	N ult (N/mm2)	N yield (N/mm2)	F.O.S	F T (kn)	F SH (kN)
4.8	6	5.16	20.90	400	320	1.4	4.8	2.9
4.8	8	6.88	37.16	400	320	1.4	8.5	5.1
4.8	10	8.60	58.06	400	320	1.4	13.3	8.0
4.8	12	10.32	83.60	400	320	1.4	19.1	11.5
4.8	14	12.04	113.79	400	320	1.4	26.0	15.6
4.8	16	13.76	148.63	400	320	1.4	34.0	20.4
4.8	18	15.48	188.11	400	320	1.4	43.0	25.8
4.8	20	17.20	232.23	400	320	1.4	53.1	31.8
4.8	22	18.92	281.00	400	320	1.4	64.2	38.5
4.8	24	20.64	334.42	400	400	1.4	76.4	45.9
4.8	27	23.22	423.25	400	400	1.4	96.7	58.0
4.8	30	25.80	522.53	400	320	1.4	119.4	71.7
5.8	6	5.16	20.90	500	400	1.4	6.0	3.6
5.8	8	6.88	37.16	500	400	1.4	10.6	6.4
5.8	10	8.60	58.06	500	400	1.4	16.6	10.0
5.8	12	10.32	83.60	500	400	1.4	23.9	14.3
5.8	14	12.04	113.79	500	400	1.4	32.5	19.5
5.8	16	13.76	148.63	500	400	1.4	42.5	25.5
5.8	18	15.48	188.11	500	400	1.4	53.7	32.2
5.8	20	17.20	232.23	500	400	1.4	66.4	39.8
5.8	22	18.92	281.00	500	400	1.4	80.3	48.2
5.8	24	20.64	334.42	500	400	1.4	95.5	57.3
5.8	27	23.22	423.25	500	400	1.4	120.9	72.6
5.8	30	25.80	522.53	500	400	1.4	149.3	89.6
8.8	6	5.16	20.90	800	640	1.4	9.6	5.7
8.8	8	6.88	37.16	800	640	1.4	17.0	10.2
8.8	10	8.60	58.06	800	640	1.4	26.5	15.9
8.8	12	10.32	83.60	800	640	1.4	38.2	22.9
8.8	14	12.04	113.79	800	640	1.4	52.0	31.2
8.8	16	13.76	148.63	800	640	1.4	67.9	40.8
8.8	18	15.48	188.11	800	640	1.4	86.0	51.6
8.8	20	17.20	232.23	800	640	1.4	106.2	63.7
8.8	22	18.92	281.00	800	640	1.4	128.5	77.1
8.8	24	20.64	334.42	800	640	1.4	152.9	91.7
8.8	27	23.22	423.25	800	640	1.4	193.5	116.1
8.8	30	25.80	522.53	800	640	1.4	238.9	143.3

Product Name

Metric DIN 975 Thread Rod

Finish

Galvanized, Steel Hot Dip Galvanized,
Stainless Steel



Chemical composition of steel metric DIN 975 Thread Rod

PROPERTY CLASS	MATERIAL AND TREATMENT	CHEMICAL COMPOSITION LIMITS %				TEMPER- ING TEMP °C MIN.
		C		P	S	
		min	max	max	max	
6.8	Low or medium carbon steel	-	0.55	0.05	0.06	-
8.8	Medium carbon steel quenched, tempered	0.25	0.55	0.04	0.05	425
9.8	Medium carbon steel quenched, tempered	0.25	0.55	0.04	0.05	425
10.9	Medium carbon steel additives e.g. boron, Mn, or Alloy steel - quenched, tempered	0.2	0.55	0.04	0.05	425

Mechanical properties of steel for metric DIN 975 Thread Rod

Steel Grade	Dia (mm)	Effective Dia (mm) {Dia x 0.86}	Effective Area (2mm)	N ult (N/mm2)	N yield (N/mm2)	F.O.S	F T (kn)	F SH (kN)
4.6	6	5.16	20.90	400	240	1.4	3.6	2.1
4.6	8	6.88	37.16	400	240	1.4	6.4	3.8
4.6	10	8.60	58.06	400	240	1.4	10.0	6.0
4.6	12	10.32	83.60	400	240	1.4	14.3	8.6
4.6	14	12.04	113.79	400	240	1.4	19.5	11.7
4.6	16	13.76	148.63	400	240	1.4	25.5	15.3
4.6	18	15.48	188.11	400	240	1.4	32.2	19.3
4.6	20	17.20	232.23	400	240	1.4	39.8	23.9
4.6	22	18.92	281.00	400	240	1.4	48.2	28.9
4.6	24	20.64	334.42	400	240	1.4	57.3	34.4
4.6	27	23.22	423.25	400	240	1.4	72.6	43.5
4.6	30	25.80	522.53	400	240	1.4	89.6	53.7

Steel Grade	Dia (mm)	Effective Dia (mm) {Dia x 0.86}	Effective Area (mm ²)	N ult (N/mm ²)	N yield (N/mm ²)	F.O.S	F T (kN)	F SH (kN)
4.8	6	5.16	20.90	400	320	1.4	4.8	2.9
4.8	8	6.88	37.16	400	320	1.4	8.5	5.1
4.8	10	8.60	58.06	400	320	1.4	13.3	8.0
4.8	12	10.32	83.60	400	320	1.4	19.1	11.5
4.8	14	12.04	113.79	400	320	1.4	26.0	15.6
4.8	16	13.76	148.63	400	320	1.4	34.0	20.4
4.8	18	15.48	188.11	400	320	1.4	43.0	25.8
4.8	20	17.20	232.23	400	320	1.4	53.1	31.8
4.8	22	18.92	281.00	400	320	1.4	64.2	38.5
4.8	24	20.64	334.42	400	400	1.4	76.4	45.9
4.8	27	23.22	423.25	400	400	1.4	96.7	58.0
4.8	30	25.80	522.53	400	320	1.4	119.4	71.7
5.8	6	5.16	20.90	500	400	1.4	6.0	3.6
5.8	8	6.88	37.16	500	400	1.4	10.6	6.4
5.8	10	8.60	58.06	500	400	1.4	16.6	10.0
5.8	12	10.32	83.60	500	400	1.4	23.9	14.3
5.8	14	12.04	113.79	500	400	1.4	32.5	19.5
5.8	16	13.76	148.63	500	400	1.4	42.5	25.5
5.8	18	15.48	188.11	500	400	1.4	53.7	32.2
5.8	20	17.20	232.23	500	400	1.4	66.4	39.8
5.8	22	18.92	281.00	500	400	1.4	80.3	48.2
5.8	24	20.64	334.42	500	400	1.4	95.5	57.3
5.8	27	23.22	423.25	500	400	1.4	120.9	72.6
5.8	30	25.80	522.53	500	400	1.4	149.3	89.6
8.8	6	5.16	20.90	800	640	1.4	9.6	5.7
8.8	8	6.88	37.16	800	640	1.4	17.0	10.2
8.8	10	8.60	58.06	800	640	1.4	26.5	15.9
8.8	12	10.32	83.60	800	640	1.4	38.2	22.9
8.8	14	12.04	113.79	800	640	1.4	52.0	31.2
8.8	16	13.76	148.63	800	640	1.4	67.9	40.8
8.8	18	15.48	188.11	800	640	1.4	86.0	51.6
8.8	20	17.20	232.23	800	640	1.4	106.2	63.7
8.8	22	18.92	281.00	800	640	1.4	128.5	77.1
8.8	24	20.64	334.42	800	640	1.4	152.9	91.7
8.8	27	23.22	423.25	800	640	1.4	193.5	116.1
8.8	30	25.80	522.53	800	640	1.4	238.9	143.3