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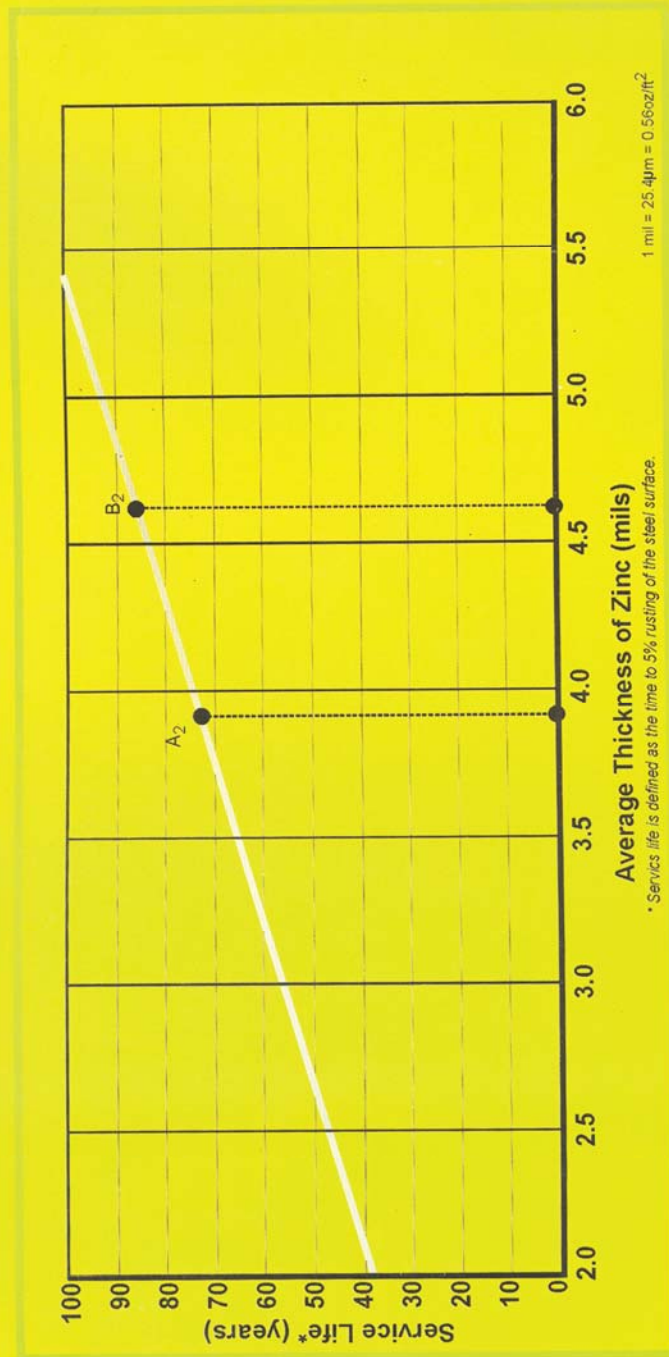
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service life chart for hot-oip galvananaized coatings

in an industrial environment



Details

Steel chemistry and surface condition determine the metallurgical reaction between zinc and iron (steel), therefore generating a range of zinc coating thicknesses. Steel containing elevated amounts of silicon and phosphorus tend to exhibit thicker coatings. It is recommended that steels have a silicon content below 0.04%, or between 0.15% and 0.22%, as well as a phosphorus level less than 0.04%.

Notes

A₁: $\frac{1}{4}$ -inch thick steel has at least 3.9 mils (99 microns) of zinc coating, per ASTM A123.
A₂: $\frac{1}{4}$ -inch thick steel will be protected for approximately 72 years in an industrial environment before any touch-up or repair will be required to extend the life of the steel in use.
B₁ and B₂: $\frac{1}{4}$ -inch thick steel often has a zinc coating of four mils or more, resulting in a maintenance-free performance for approximately 85 years.
Cost: The initial cost of hot-dip galvanized steel is equal to the final cost, thus there are no maintenance costs from year 0 to year 72.

service life chart for hot-oip galvanized coatings



**Presentation Stainless Steel Welded / Seamless Pipes
(With different Alloy SS-301 until SS-420)**

A few Characteristics Stainless Steel :

- Good resistance inside environment abrasion
- Cold forming (darwing and stamping)
- Excellent weldability
- melting range temperature (1400 - 1510)
- Resistance in high pressure until 700 psi

Diemension and weight stainless steel

Table 10

Nominal Bore		Outside Dia		SCH-5		SCH-10		SCH- 40		SCH- 80		SCH- 160	
mm	inch	mm		WT	WT Kg/M	WT	WT Kg/M	WT	WT Kg/M	WT	WT Kg/M	WT	WT Kg/M
6	1/4	13.7	-	-	-	1.65	.491	2.24	.633	3.02	.497	-	-
10	3/8	17.2	-	-	-	1.65	.631	2.31	.842	3.20	1.15	-	-
15	1/2	21.3	-	1.65	.801	2.11	.999	2.77	1.27	3.75	1.62	4.75	1.94
20	3/4	26.7	-	1.65	1.02	2.11	1.28	2.87	1.68	3.91	2.20	5.54	2.89
25	1	33.4	-	1.65	1.29	2.77	2.09	3.38	2.50	4.55	3.24	6.35	4.24
32	1 1/4	42.2	-	1.65	1.65	2.77	2.69	3.56	3.38	4.85	4.46	6.35	5.61
40	1 1/2	48.3	-	1.65	1.9	2.77	3.11	3.68	4.05	5.08	5.41	7.14	7.25
50	2	60.3	-	1.65	3.34	2.77	3.92	3.91	5.44	5.54	7.48	9.41	11.1
65	2 1/2	73.0	-	2.11	3.69	3.05	5.26	5.16	8.63	7.01	11.4	9.53	14.9
80	3	88.9	-	2.11	4.51	3.05	6.45	5.49	11.03	7.62	15.3	11.1	21.3
100	4	114.3	-	2.11	5.94	3.05	8.38	6.02	16.1	8.56	22.3	13.8	33.6

Thread : (BSPP , BSPT and NPT)

**Covers black and hot-Dipped galvanized
Electric - Resistance welded grade B pipe.
ASTM A 53 Type-E grade B (with certificate)
pipe is intended for mechanical and pressure applications
and is acceptable for ordinary uses in steam , water , gas ,
and air lines. pipe is suitable for welding , threading and
grooving , produced to the latest revision of ASTM.A53A / 53M.**

Diemension and weight

Table 9

Nominal Size	Outside Dia/in	Inside Dia/in	Wall Thucknes (in)	Weight Lb/Ft
1/2	0.840	.622	0.109	0.85
3/4	1.050	0.824	0.113	1.13
1	1.315	1.049	0.133	1.68
1 1/4	1.660	1.380	0.140	2.27
1 1/2	1.900	1.610	0.145	2.72
2	2.375	2.067	0.154	3.65
2 1/2	2.875	2.469	0.203	5.79
3	3.5	3.068	0.216	7.58
4	4.5	4.026	0.237	10.79

Lenght : 6000 mm

Finish : hot Dip (B.S-729)

Thickness galvanize : 50 m ~ 90 m

Thread : (BSPP - BSPT - NPT)

**Presentation Pipes Carbon Steel Welded/Seamless
(ASME B36.10 , B36.10M)**

- ASTM A106 grade A and B Seamless pipe (with certificate)
cover seamless nominal wall carbon steel pipe for high
Temperature Service , Suitable for bending flanging similar
Forming operations , and for welding.

Dimension and weight

Table 8

BLACK PLAIN END					
NPS	OD inches	Schedule 40		Schedule 80	
		Wall in	Weight Lb/Ft	Wall in	Weight Lb/Ft
1/2	0.840	.109	0.85	0.147	1.09
3/4	1.050	0.113	1.13	0.154	1.48
1	1.315	0.133	1.68	0.179	2.17
1 1/4	1.660	0.140	2.27	0.191	3.00
1 1/2	1.900	0.145	2.72	0.200	3.63
2	2.375	0.154	3.66	.218	5.03
2 1/2	2.875	0.203	5.79	0.276	7.66
3	3.5	0.216	7.58	0300	10.25
4	4.5	0.237	10.79	0.318	12.51

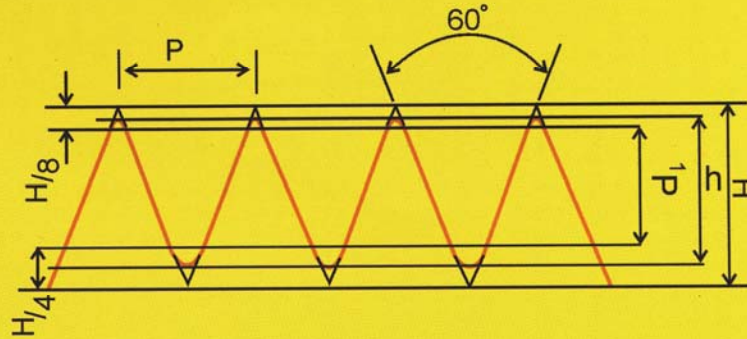
Lenght : 6000 mm

Finish : hot Dip (B.S - 729)

Thickness galvanize : 50 m ~ 90 m

Thread : (BSPP - BSPT - NPT)

Producing Iso metric Thread
Suitable for Electrical piping (according B.S - 4568)



$$H = 0.866 \cdot P$$

$$h = 0.5412 \cdot P$$

$$r = 0.1443 \cdot P$$

Table 7

Size	Maximum Dia/mm	Wall Thickness mm	Waght Kg/m	Threads Per/inch	Piteh P	Bundie pes
M 20	20	1.25	0.62	16.93	1.5	19
M 25	25	1.25	0.77	16.93	1.5	10
M 32	32	1.5	1.175	16.93	1.5	10
M 40	40	1.5	1.470	16.93	1.5	4
M 50	50	2	2.450	16.93	1.5	4
M 63	63	2	3.100	16.93	1.5	---
M 75	75	2.5	4.580	16.93	1.5	---
M 90	90	3	6.667	16.93	1.5	---
M 100	100	4	9.833	16.93	1.5	---

Lenght : 3000 mm or 6000 mm

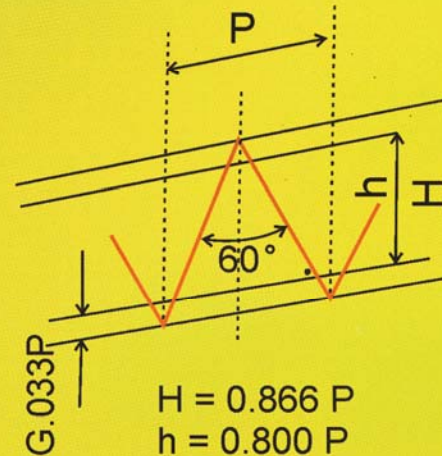
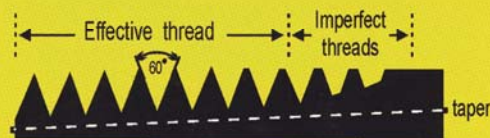
Finish : hot Dip on the exterior and interior (B.S - 729)

Thickness galvanize : 50 m ~ 85 m

Producing American Standard Taper Pipe Threads (NPT)
(also known as ANSI / ASME B1.20.1 pipe thread)

Characteristics of N.P.T :

- Tapered Thread 1,47'
- Truncation of root and crests are flat
- 60 thread angle
- Pitch is measured in threads per/inch



American Standard Taper Pipe Threads

Table 6

Normal size	Actual OD	Threads per inch	Length of engagement (tightened by hand)	Hand tight turns	Wrench makeup turns	Length of effective.e. thread
1/8	0.405	27	0.180	4 1/2	2 1/2	0.260
1/4	0.540	18	0.200	4	3	0.401
3/8	0.675	18	0.240	4 1/2	3	0.408
1/2	0.840	14	0.320	4 1/2	3	0.534
3/4	1.050	14	0.340	4 1/2	3	0.546
1	1.315	11.5	0.400	4 1/2	3 1/4	0.682
1 1/4	1.660	11.5	0.420	4 1/2	3 1/4	0.707
1 1/2	1.900	11.5	0.420	4 1/2	3 1/4	0.724
2	2.375	11.5	0.436	5	3	0.756
2 1/2	2.875	8	0.682	5 1/2	3	1.136
3	3.500	8	0.766	6	3	1.200

Note : for NPT Threads a sealant compound or teflon must be used for a leak free seat.

Medium Pipes Dimensions

(BS 1387 - 1985, ISO - 65)

Table 4

Nominal Size (DN)	Designation of Thread	Outside Diameter (mm)		Thickness (mm)	Mass of Black Tube (Kg/m)		Threads per/in	Pitch P (mm)	Thread Height H (mm)
		Min	Max		Plain End	Screwed & Socketed			
15	1/2"	21.0	21.7	2.6	1.21	1.22	14	1.814	1.162
20	3/4"	26.6	27.2	2.6	1.56	1.57	14	1.814	1.162
25	1"	33.4	34.2	3.2	2.41	2.43	11	2.309	1.479
32	1 1/4"	42.1	42.9	3.2	3.10	3.15	11	2.309	1.479
40	1 1/2"	48.0	48.8	3.2	3.57	3.61	11	2.309	1.479
50	2"	59.8	60.8	3.6	5.03	5.10	11	2.309	1.479
65	2 1/2"	75.4	76.6	3.6	6.43	6.55	11	2.309	1.479
80	3"	88.1	89.5	4.0	8.37	8.54	11	2.309	1.479
100	4"	113.3	114.9	4.5	12.2	12.5	11	2.309	1.479
125	5"	138.7	140.6	5.0	16.6	17.1	11	2.309	1.479
150	6"	164.1	166.1	5.0	19.7	20.3	11	2.309	1.479

Heavy Pipe Dimensions

(BS 1387 - 1985, ISO - 65)

Table 5

Nominal Size (DN)	Designation of Thread	Outside Diameter (mm)		Thickness (mm)	Mass of Black Tube (Kg/m)		Threads per/in	Pitch P (mm)	Thread Height H (mm)
		Min	Max		Plain End	Screwed & Socketed			
15	1/2"	21.1	21.7	3.2	1.44	1.45	14	1.814	1.162
20	3/4"	26.6	27.2	3.2	1.87	1.88	14	1.814	1.162
25	1"	33.4	34.2	4.0	2.94	2.96	11	2.309	1.479
32	1 1/4"	42.1	42.9	4.0	3.80	3.83	11	2.309	1.479
40	1 1/2"	48.0	48.8	4.0	4.38	4.42	11	2.309	1.479
50	2"	59.8	60.8	4.5	6.19	6.26	11	2.309	1.479
65	2 1/2"	75.4	76.6	4.5	7.93	8.05	11	2.309	1.479
80	3"	88.1	89.5	5.0	10.3	10.5	11	2.309	1.479
100	4"	113.3	114.9	5.4	14.5	14.8	11	2.309	1.479
125	5"	138.7	140.6	5.4	17.9	18.4	11	2.309	1.479
150	6"	164.1	166.1	5.4	21.3	21.9	11	2.309	1.479

Length : 3000 mm or 6000 mm

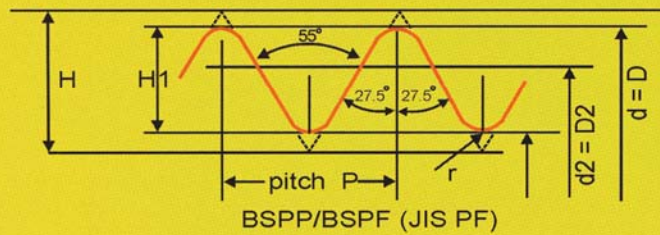
Finish : hot dip galvanizing (B.S-729)

Thickness galvanize : 50m ~ 80 m

**Producing BS White Conduit Threads Welded / Seamless
(B.S-1387, ISO-65, DIN-2440, ASTM.A-120)**

BS. 1387 tubes are widely used for cold water services .
Low pressure steam and feed, compress air pipe
works, gas and petroleum services.

PIPE THREAD - BRITISH STANDARD PIPE PARALLEL - BSPP/BSPF
PIPE THREAD - JAPANESE PIPE PARALLEL - PF



$$H = 0.96049 \times P$$

$$H1 = 0.64032 \times P$$

$$r = 0.13733 \times P$$

Chemical Analysis & Mechanical Properties

(BS 1387 - 1985)

Table 2

Chemical Composition					Mechanical Properties		
C Max	Mn Max	Si Max	P Max	S Max	Tensile Strenght BM	Yield Strength RE (Min)	Elongation on Gauge Length L0=5.65 sqrt (S0)A (Min)
% 0.20	% 1.20	% 0.10	% 0.045	% 0.045	2 N/mm 320 to 460	2 N/mm 195	% 20

(BS 1387 - 1985,ISO - 65)

Table 3

Nominal Size (DN)	Designation of Thread	Outside Diameter (mm)		Thickness (mm)	Mass of Black Tube (Kg/m)		Threads per/in	Pitch p mm	Thread Height Hi
		Min	Max		Plain End	Screwed & Socketed			
15	1/2"	21.0	21.4	2.0	0.947	0.956	14	1.814	1.162
20	3/4"	26.4	26.9	2.3	1.38	1.39	14	1.814	1.162
25	1"	33.2	33.8	2.6	1.98	2.00	11	2.309	1.479
32	1 1/4"	41.9	42.5	2.6	2.54	2.57	11	2.309	1.479
40	1 1/2"	47.8	48.4	2.9	3.23	3.27	11	2.309	1.479
50	2"	59.6	60.2	2.9	4.08	4.11	11	2.309	1.479
65	2 1/2"	75.2	76.0	3.2	5.71	5.83	11	2.309	1.479
80	3"	87.9	88.7	3.2	6.72	6.89	11	2.309	1.479
100	4"	113.0	113.9	3.6	9.75	10.0	11	2.309	1.479

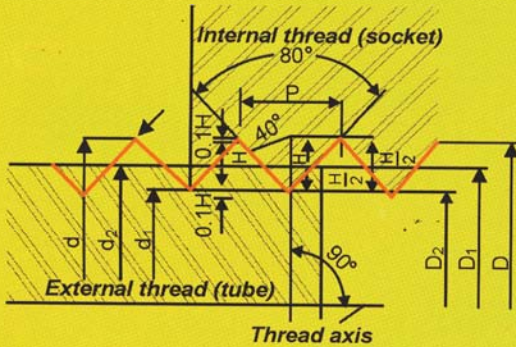
Length : 3000 mm or 6000 mm

Finish : hot dip galvanizing (B.S-729)

Thickness galvaniz : 50m ~ 80 m

Producing - pg white conduit Threads (DIN - 40430)

Pg White Conduit Threads



Dimensions in mm

$$P = \frac{25.4}{Z}$$

$$R = 0.107P$$

$$H = 0.595375P$$

$$H = 0.8H = 0.4767P$$

Designation of a steel conduit thread pg 21
Thread pg 21 DIN 40430

Table 1

Normal Size	Outside Dia(mm)	Wall Thickness (mm)	Weight Kg/m	Bundle pcs	Thread per / in	Pitch P
Pg-11	18.0	1.2 ± 0.15	0.530	19	18	1.410
Pg-13.5	$20.4^{+0.05}_{-0.02}$	1.2 ± 0.15	0.590	19	18	1.410
Pg-16	$22.2^{+0.05}_{-0.1}$	1.2 ± 0.15	0.650	19	18	1.410
Pg-21	$28.3^{+0.05}_{-0.25}$	1.2 ± 0.15	0.822	12	16	1.588
Pg-29	$37^{+0.1}_{-0.3}$	1.4 ± 0.2	1.270	10	16	1.588
Pg-36	$47^{+0.1}_{-0.3}$	1.4 ± 0.2	1.610	4	16	1.588
Pg-42	$54^{+0.15}_{-0.35}$	1.7 ± 0.25	2.250	4	16	1.588
Pg-48	$60.3^{+0.1}_{-0.2}$	2 ± 0.15	3.00	4	16	1.588

Length : 3000 mm

Finish : hot Dip galvanizing on the exterior and interior

Standard hot Dip : (B.S-729) , (ASTM.A - 153) , (DIN-2950)

Thickness galvanize : $50^M \sim 80^M$



Electrical Metallic Tubing

NOMINAL DIAMETER NPS	EXTERNAL DIAMETER		INSIDE DIAMETER		THICKNESS OF WALL		LENGTH		MINIMUM WEIGHT	
	Inches	mm	Inches	mm	Inches	mm	Ft	mm	Lbs/ft	Kg/m
1/2 "	0.706	17.93	0.622	15.80	0.042	1.067	10	3048	0.285	0.424
3/4 "	0.922	23.42	0.824	20.93	0.049	1.245	10	3048	0.435	0.647
1 "	1.163	29.54	1.049	26.64	0.057	1.448	10	3048	0.640	0.952
1-1/4 "	1.510	38.35	1.380	35.05	0.065	1.651	10	3048	0.950	1.414
1-1/2 "	1.740	44.20	1.610	40.89	0.065	1.651	10	3048	1.100	1.637
2 "	2.197	55.80	2.067	52.50	0.065	1.651	10	3048	1.400	2.083
2-1/2 "	2.875	73.03	2.731	69.37	0.072	1.83	10	3048	2.052	3.052
3 "	3.500	88.90	3.356	85.24	0.072	1.83	10	3048	2.499	3.716
3-1/2 "	4.000	101.60	3.834	97.38	0.083	2.11	10	3048	3.316	4.931
4 "	4.500	114.30	4.334	110.08	0.083	2.11	10	3048	3.734	5.554



IMC (Intermediate Metal Couduit)

NOMINAL DIAMETER NPS	EXTERNAL DIAMETER						THICKNESS OF WALL		LENGTH		MINIMUM WEIGHT per 100 ft	
	Nominal		Mininum		Maxmum							
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	lb	kg
1/2 "	0.815	20.7	0.810	20.6	0.820	20.8	0.070	1.78	9 " -11-1/4 "	3029.0	62.0	28.1
3/4 "	1.209	26.1	1.024	26.0	1.034	26.3	0.075	1.91	9 " -11-1/4 "	3029.0	85.3	38.7
1 "	1.290	32.8	1.285	32.6	1.295	32.9	0.085	2.16	9 " -11 "	3022.6	125.4	56.9
1-1/4 "	1.638	41.6	1.630	41.4	1.645	41.8	0.085	2.16	9 " -11 "	3022.6	162.0	73.5
1-1/2 "	1.883	47.8	1.875	47.6	1.890	48.0	0.090	2.29	9 " -11 "	3022.6	187.8	85.2
2 "	2.360	59.9	2.352	59.7	2.367	60.1	0.095	2.41	9 " -11 "	3022.6	251.5	114.1
2-1/2 "	2.857	72.6	2.847	72.3	2.867	72.8	0.140	3.56	9 " -10-1/2 "	3009.9	400.6	181.7
3 "	3.476	88.3	3.466	88.0	3.486	88.5	0.140	3.56	9 " -10-1/2 "	3009.9	491.8	223.1
3-1/2 "	3.971	100.9	3.961	100.6	3.981	101.1	0.140	3.56	9 " -10-1/4 "	3003.6	564.7	256.1
4 "	4.466	113.3	4.456	113.2	4.476	113.7	0.140	3.56	9 " -10-1/4 "	3003.6	643.4	291.2

■ STANDARD(BS4568-1970)



	Size (mm)	Outside Diameter (mm)		Wall thickness (mm)	Length of thread (mm)		Weight(g/m)			
		Min	Max		Min	Max	Class1 2 3		Class 4	
							Min	Max	Min	Max
T-51	20	19.7	20	1.6±0.15	13	15	643	783	682	862
T-52	25	24.6	25	1.6±0.15	16	18	811	995	860	1095
T-53	32	31.6	32	1.6±0.15	18	20	1069	1301	1133	1432

■ STANDARD(BS31-1940)



	Size	Outside Diameter (mm)		Wall thickness (mm)	Thread (mm)		Weight(g/m)
		Min	Max		Min	Max	
T-61	3/4 "	18.90	19.05	1.6±0.15	13.5	14.3	0.735±3%
T-62	1 "	25.25	25.40	1.6±0.15	16.7	17.5	1.000±3%
T-63	1-1/4 "	31.60	31.75	1.6±0.15	18.3	19.1	1.278±3%

■ ELECTRICAL METALLIC TUBING 90° ELBOWS



ITEM NO.	NAME	SIZE
81	Electrical Metallic Tubing	1/2 "
82	Electrical Metallic Tubing	3/4 "
83	Electrical Metallic Tubing	1 "
84	Electrical Metallic Tubing	1-1/4 "
85	Electrical Metallic Tubing	1-1/2 "
86	Electrical Metallic Tubing	2 "
87	Electrical Metallic Tubing	2-1/2 "
88	Electrical Metallic Tubing	3 "
89	Electrical Metallic Tubing	3-1/2 "
90	Electrical Metallic Tubing	4 "

■ RIGID 90° ELBOWS



ITEM NO.	NAME	SIZE
61	IMC/RMC	1/2 "
62	IMC/RMC	3/4 "
63	IMC/RMC	1 "
64	IMC/RMC	1-1/4 "
65	IMC/RMC	1-1/2 "
66	IMC/RMC	2 "
67	IMC/RMC	2-1/2 "
68	IMC/RMC	3 "
69	IMC/RMC	3-1/2 "
70	IMC/RMC	4 "

CONNECTORS (ZINC DIE CASTING)

ITEM NO.	SIZE
530	1/2 "
531	3/4 "
532	1 "
533	1-1/4 "
534	1-1/2 "
535	2 "
536	2-1/2 "
537	3 "
538	3-1/2 "
539	4 "



COUPLINGS (ZINC DIE CASTING)

ITEM NO.	SIZE
540	1/2 "
541	3/4 "
542	1 "
543	1-1/4 "
544	1-1/2 "
545	2 "
546	2-1/2 "
547	3 "
548	3-1/2 "
549	4 "



CONNECTOR (STEEL)

ITEM NO.	SIZE
530S	1/2 "
531S	3/4 "
532S	1 "
533S	1-1/4 "
534S	1-1/2 "
535S	2 "
536S	2-1/2 "
537S	3 "
538S	3-1/2 "
539S	4 "



COUPLING (STEEL)

ITEM NO.	SIZE
540S	1/2 "
541S	3/4 "
542S	1 "
543S	1-1/4 "
544S	1-1/2 "
545S	2 "
546S	2-1/2 "
547S	3 "
548S	3-1/2 "
549S	4 "



CONNECTORS (ALUMINUM DIE CASTING)

ITEM NO.	SIZE
530A	1/2 "
531A	3/4 "
532A	1 "
533A	1-1/4 "
534A	1-1/2 "
535A	2 "
536A	2-1/2 "
537A	3 "
538A	3-1/2 "
539A	4 "



COUPLINGS (ALUMINUM DIE CASTING)

ITEM NO.	SIZE
540A	1/2 "
541A	3/4 "
542A	1 "
543A	1-1/4 "
544A	1-1/2 "
545A	2 "
546A	2-1/2 "
547A	3 "
548A	3-1/2 "
549A	4 "



BX CONNECTORS STRAIGHT (Zinc Die Casting)

ITEM NO.	SIZE
550	1/2
551	3/4
552	1
553	1-1/4
554	1-1/2
555	2



BX CONNECTORS ANGLE (Zinc Die Casting)

ITEM NO.	SIZE
560	1/2 "
561	3/4 "
562	1 "
563	1-1/4 "
564	1-1/2 "
565	2 "



LIQUID TIGHT CONNECTOR STRAIGHT (Zinc Die Casting)

ITEM NO.	SIZE
620	1/2 "
621	3/4 "
622	1 "
623	1-1/4 "
624	1-1/2 "
625	2 "



LIQUID TIGHT CONNECTOR ANGLE (Zinc Die Casting)

ITEM NO.	SIZE
630	1/2 "
631	3/4 "
632	1 "
633	1-1/4 "
634	1-1/2 "
635	2 "



■ COMPRESSION CONNECTOR (Zinc Die Casting)

ITEM NO.	SIZE
570	1/2 "
571	3/4 "
572	1 "
573	1-1/4 "
574	1-1/2 "
575	2 "



■ COMPRESSION COUPLING (Zinc Die Casting)

ITEM NO.	SIZE
580	1/2 "
581	3/4 "
582	1 "
583	1-1/4 "
584	1-1/2 "
585	2 "



■ COMPRESSION CONNECTOR (STEEL)

ITEM NO.	SIZE
570S	1/2 "
571S	3/4 "
572S	1 "
573S	1-1/4 "
574S	1-1/2 "
575S	2 "



■ COMPRESSION COUPLING (STEEL)

ITEM NO.	SIZE
580S	1/2 "
581S	3/4 "
582S	1 "
583S	1-1/4 "
584S	1-1/2 "
585S	2 "



■ ROMEX CONNECTORS (Zinc Die Casting)

ITEM NO.	SIZE
120	3/8 " & 1/2 "
620	3/4 "
953	1 "
954	1-1/4 "
955	1-1/2 "
956	2 "



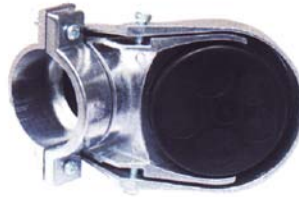
■ COMBINATION CONNECTORS Saddle



ITEM NO.	SIZE
170	3/8 "

■ ENTRANCE CAPS CLAMP TYPE (Aluminum Die Casting)

ITEM NO.	SIZE
731	1/2 "
732	3/4 "
733	1 "
734	1-1/4 "
735	1-1/2 "
736	2 "



■ ENTRANCE CAPS THREADED TYPE (Aluminum Die Casting)

ITEM NO.	SIZE
741	1/2 "
742	3/4 "
743	1 "
744	1-1/4 "
745	1-1/2 "
746	2 "



■ CONDUIT BUSHINGS (Zinc Die Casting)

ITEM NO.	SIZE
TQ-10	1/2 "
TQ-11	3/4 "
TQ-12	1 "
TQ-13	1-1/4 "
TQ-14	1-1/2 "
TQ-15	2 "
TQ-16	2-1/2 "
TQ-17	3 "
TQ-18	3-1/2 "
TQ-19	4 "



■ CONDUIT LOCKNUTS (Zinc Die Casting)

ITEM NO.	SIZE
TQ-20	1/2 "
TQ-21	3/4 "
TQ-22	1 "
TQ-23	1-1/4 "
TQ-24	1-1/2 "
TQ-25	2 "
TQ-26	2-1/2 "
TQ-27	3 "
TQ-28	3-1/2 "
TQ-29	4 "



■ SCREWED CONDUIT BODIES

(Aluminum Die Casting)



ELB

ITEM NO.	SIZE
ELB1	1/2 "
ELB2	3/4 "
ELB3	1 "
ELB4	1-1/4 "
ELB5	1-1/2 "
ELB6	2 "



ELL

ITEM NO.	SIZE
ELL1	1/2 "
ELL2	3/4 "
ELL3	1 "
ELL4	1-1/4 "
ELL5	1-1/2 "
ELL6	2 "



ELR

ITEM NO.	SIZE
ELR1	1/2 "
ELR2	3/4 "
ELR3	1 "
ELR4	1-1/4 "
ELR5	1-1/2 "
ELR6	2 "



EC

ITEM NO.	SIZE
EC1	1/2 "
EC2	3/4 "
EC3	1 "
EC4	1-1/4 "
EC5	1-1/2 "
EC6	2 "



ET

ITEM NO.	SIZE
ET1	1/2 "
ET2	3/4 "
ET3	1 "
ET4	1-1/4 "
ET5	1-1/2 "
ET6	2 "

■ THREADED RIGID CONDUIT BODIES

(Aluminum Die Casting)



LB

ITEM NO.	SIZE
LB1	1/2 "
LB2	3/4 "
LB3	1 "
LB4	1-1/4 "
LB5	1-1/2 "
LB6	2 "



LL

ITEM NO.	SIZE
LL1	1/2 "
LL2	3/4 "
LL3	1 "
LL4	1-1/4 "
LL5	1-1/2 "
LL6	2 "



LR

ITEM NO.	SIZE
LR1	1/2 "
LR2	3/4 "
LR3	1 "
LR4	1-1/4 "
LR5	1-1/2 "
LR6	2 "



C

ITEM NO.	SIZE
C1	1/2 "
C2	3/4 "
C3	1 "
C4	1-1/4 "
C5	1-1/2 "
C6	2 "



T

ITEM NO.	SIZE
T1	1/2 "
T2	3/4 "
T3	1 "
T4	1-1/4 "
T5	1-1/2 "
T6	2 "



COVERS
(Aluminum Die Casting)

ITEM NO.	SIZE
571	1/2 "
572	3/4 "
573	1 "
574	1-1/4 "
575	1-1/2 "
576	2 "



BODIES COVERS
(Steel)

ITEM NO.	SIZE
571S	1/2 "
572S	3/4 "
573S	1 "
574S	1-1/4 "
575S	1-1/2 "
576S	2 "



GASKETS

ITEM NO.	SIZE
581S	1/2 "
582S	3/4 "
583S	1 "
584S	1-1/4 "
585S	1-1/2 "
586S	2 "

WEATHERPROOF BOXES

Single Gang

3 Holes

ITEM NO.	SIZE
WB1	1/2 "K.O.
WB2	3/4 "K.O.



4 Holes

ITEM NO.	SIZE
WB3	1/2 "K.O.
WB4	3/4 "K.O.



5 Holes

ITEM NO.	SIZE
WB5	1/2 "K.O.
WB6	3/4 "K.O.



Double Gang

3 Holes

ITEM NO.	SIZE
WB7	1/2 "K.O.
WB8	3/4 "K.O.



4 Holes

ITEM NO.	SIZE
WB9	1/2 "K.O.
WB10	3/4 "K.O.



5 Holes

ITEM NO.	SIZE
WB11	1/2 "K.O.
WB12	3/4 "K.O.



4" Round Box

ITEM NO.	SIZE
WB13	1/2 "K.O.
WB14	3/4 "K.O.



4" Round Extension

ITEM NO.	SIZE
WB15	1/2 "K.O.
WB16	3/4 "K.O.



■ STRUT CHANNELS With Elongated Holes

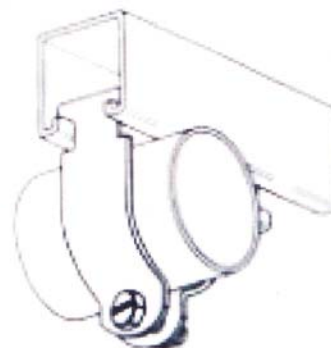


ITEM NO.	WIDTH	HEIGHT	GAUGE
UC34	1-5/8"	13/16"	14

ITEM NO.	WIDTH	HEIGHT	GAUGE
UC112	1-5/8"	1-5/8"	12
UC114	1-5/8"	1-5/8"	14

■ STRUT CLAMP

ITEM NO.	SIZE
2101	1/2"
2102	3/4"
2103	1"
2104	1-1/4"
2105	1-1/2"
2106	2"
2107	2-1/2"
2108	3"
2109	3-1/2"
2110	4"



■ STRAP ONE HOLE

ITEM NO.	SIZE
SP-10	1/2 "
SP-11	3/4 "
SP-12	1 "
SP-13	1-1/4 "
SP-14	1-1/2 "
SP-15	2 "
SP-16	2-1/2 "
SP-17	3 "
SP-18	3-1/2 "
SP-19	4 "



■ STRAP TWO HOLES

ITEM NO.	SIZE
SP-20	1/2 "
SP-21	3/4 "
SP-22	1 "
SP-23	1-1/4 "
SP-24	1-1/2 "
SP-25	2 "
SP-26	2-1/2 "
SP-27	3 "
SP-28	3-1/2 "
SP-29	4 "



■ CONDUIT HANGER

ITEM NO.	SIZE
601	1/2 "
602	3/4 "
603	1 "
604	1-1/4 "
605	1-1/2 "
606	2 "
607	2-1/2 "
608	3 "
609	3 1/2 "
610	4 "



■ CONDUIT LOCKNUTS (Steel)

ITEM NO.	SIZE
TQ-20	1/2 "
TQ-21	3/4 "
TQ-22	1 "
TQ-23	1-1/4 "
TQ-24	1-1/2 "
TQ-25	2 "
TQ-26	2-1/2 "
TQ-27	3 "
TQ-28	3-1/2 "
TQ-29	4 "



■ RIGID COUPLING (Steel)

ITEM NO.	SIZE
51	1/2 "
52	3/4 "
53	1 "
54	1-1/4 "
55	1-1/2 "
56	2 "
57	2-1/2 "
58	3 "
59	3-1/2 "
60	4 "



■ CONDUIT NIPPLES (Steel)

ITEM NO.	SIZE
6451	1/2 "
6452	3/4 "
6453	1 "
6454	1-1/4 "
6455	1-1/2 "
6456	2 "
6457	2-1/2 "
6458	3 "
6459	3-1/2 "
6460	4 "



■ REDUCING BUSHING (Steel)



ITEM NO.	SIZE
RB1	1/2 " x 3/8 "
RB2	3/4 " x 1/2 "
RB3	1 x 1/2 "
RB4	1 x 3/4 "
RB5	1-1/4 x 1/2 "
RB6	1-1/4 x 3/4 "



ITEM NO.	SIZE
RB7	1-1/4 x 1
RB8	1-1/2 x 1/2
RB9	1-1/2 x 3/4
RB10	1-1/2 x 1
RB11	1-1/2 x 1-1/4
RB12	2 " x 1/2 "



ITEM NO.	SIZE
RB13	2 x 3/4
RB14	2 x 1
RB15	2 x 1-1/4
RB16	2 x 1-1/2

■ CONDUIT BOX

4" × 4" SQUARE CONDUIT BOXES

1-1/2" DEEP BOXES

ITEM NO.
52151-1/2
52151-3/4
52151-1/2&3/4



1-1/2" DEEP EXTENSIONS

ITEM NO.
53151E-1/2
53151E-3/4
53151E-1/2&3/4



2" × 4" RECTANGULAR CONDUIT BOXES

4"H x 2-1/8"W x 1-7/8"D BOXES

ITEM NO.
58361-1/2
58361-3/4
58361-1/2&3/4



1-7/8" DEEP EXTENSIONS

ITEM NO.
59361E-1/2
59361E-3/4
59361E-1/2&3/4



LIQUID TIGHT FLEXIBLE STEEL CONDUIT (TYPE: SLFS)



Construction:
 ● Galvanized steel, core
 ● Squarelock style
 ● Vacuum PVC jacket, flexible
 Working Temperature:
 ● -10°C--70°C



Normal Size	Type	Inside Diameter		Outside Dia. Over Jacket		Min. Bend Radius (mm)	Length of Reel (mm)
		Min(mm)	Max(mm)	Min(mm)	Max(mm)		
3/8"	SLFS210B	12.30	12.80	16.70	17.20	50	50
1/2"	SLFS220B	15.80	16.30	20.20	20.70	65	50
3/4"	SLFS230B	20.70	21.20	25.50	26.10	75	50
1"	SLFS240B	26.00	26.60	31.60	32.20	100	50
1-1/4"	SLFS250B	34.70	35.40	40.80	41.50	125	30
1-1/2"	SLFS260B	40.00	40.60	46.60	47.20	150	30
2"	SLFS270B	51.30	51.90	58.10	58.70	175	20

FLEXIBLE METAL CONDUIT (TYPE: SLFS)



Construction:
 ● Galvanized steel, core, non-liquidtight
 ● Squarelock style

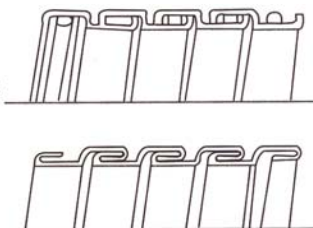


Normal Size	Type	Inside Diameter		Outside Dia. Over Jacket		Min. Bend Radius (mm)	Length of Reel (mm)
		Min(mm)	Max(mm)	Min(mm)	Max(mm)		
3/8"	SLD×210	12.30	12.80	15.70	16.20	33	50
1/2"	SLD×220	15.80	16.30	19.20	19.70	38	50
3/4"	SLD×230	20.70	21.20	24.50	25.10	45	50
1"	SLD×240	26.00	26.60	30.40	31.00	55	50
1-1/4"	SLD×250	34.70	35.40	39.60	40.30	62	30
1-1/2"	SLD×260	40.00	40.60	45.20	45.80	90	30
2"	SLD×270	51.30	51.90	56.50	57.10	110	20

LIQUID TIGHT FLEXIBLE STEEL CONDUIT (TYPE: SLGS)



Construction:
 ● Galvanized steel, core, corrosion resistant
 ● Size 3/8" through 1-1/4" by squarelock with fillers of copper strip
 Size 1-1/2" through 4" by full interlock
 ● Liquidtight PVC jacket, flexible, flame retardant, resist oils, mild acid
 Working Temperature,
 ● -10°C--70°C



Normal Size	Type	Inside Diameter		Outside Dia. Over Jacket		Min. Bend Radius (mm)	Length of Reel (mm)
		Min(mm)	Max(mm)	Min(mm)	Max(mm)		
3/8"	SLGFS210B	12.29	12.80	17.50	18.0	50.50	30
1/2"	SLGFS220B	15.80	16.31	20.80	21.3	82.50	30
3/4"	SLGFS230B	20.83	21.34	26.20	26.7	108.00	30
1"	SLGFS240B	26.44	27.08	32.80	33.4	165.00	20
1-1/4"	SLGFS250B	35.05	35.81	41.40	42.2	203.00	20
1-1/2"	SLGFS260B	40.10	40.64	47.40	48.3	228.50	20
2"	SLGFS270B	51.30	51.94	59.40	60.3	282.50	15

■ ALUMINUM BOXES

Material: Aluminum
60.3mm Internal Diameter
20mm Boxes Minimum 25mm Deep
25mm Boxes Minimum 25mm Deep
Tapped M4 at 50.8mm centres.
With tappes hole in base for earthing scre.
Supplied without cover or fixing screws uniess ordered

■ MALLEABLE BOXES

Material: Malleable Iron
Finishes: Black Enamel, Galvanised
60.3mm Internal Diameter
20mm Boxes Minimum 25mm Deep
25mm Boxes Minimum 25mm Deep
Tapped M4 at 50.8mm centres.
With tappes hole in base for earthing scre.
Supplied without cover or fixing screws uniess ordered

Terminal No .BF181A
Size: 20mm 25mm



Terminal No .BF181
Size: 20mm 25mm

Through No .BF182A
Size: 20mm 25mm



Through No .BF182
Size: 20mm 25mm

Angle No .BF183A
Size: 20mm 25mm



Angle No .BF183
Size: 20mm 25mm

Tee No .BF184A
Size: 20mm 25mm



Tee No .BF184
Size: 20mm 25mm

Intersection No .BF185A
Size: 20mm 25mm



Intersection No .BF185
Size: 20mm 25mm

Channel Inspection Tee No .BF131A
Size: 20mm 25mm 32mm



Channel Inspection Tee No .BF131
Size: 20mm 25mm 32mm

Channel Inspection Elbow No.BF123A
Size: 20mm 25mm 32mm



Channel Inspection Elbow No.BF123
Size: 20mm 25mm 32mm

■ SADDLES

Distance Saddle No .BF363
Material: Aluminum Base.Steel Top
Finishes: Black Enamel,Galvanised
Size: 20mm 25mm 32mm
Size: 40mm 50mm



Steel Crampet No .BF461
Material: Steel
Finishes: Black Enamel,Galvanised
Size: 20mm 25mm



Spacer Bar Saddle No .BF431
Material: Steel
Finishes: Black Enamel,Galvanised
Size: 20mm 25mm 32mm
Size: 40mm 50mm



Channel Nut c/w spring
No .BF595/BF596(Short/Long)
Material: Steel
Finishes: Zinc Plated
Size: 6mm 8mm
Size: 10mm 12mm



Clip (Half Saddle) No .BF441
Material: Steel
Finishes: Black Enamel,Galvanised
Size: 20mm 25mm 32mm
Size: 40mm 50mm



1 Way(Single)Saddle No .BF451
Material: Steel
Finishes: Black Enamel,Galvanised
Size: 20mm 25mm 32mm
Size: 40mm 50mm



■ BS ACCESSORIES

BS 31

SPECS	BS31 COUPLER			BRASS MALEBUSH		
SIZE	1/2 "	3/4 "	1 "	1/2 "	3/4 "	1 "
	1-1/4 "	1-1/2 "	2 "	1-1/4 "	1-1/2 "	2 "



BS 4568

SPECS	BS4568 COUPLER			BRASS MALEBUSH		
SIZE	16mm	20mm	25mm	16mm	20mm	25mm
	32mm	40mm	50mm	32mm	40mm	50mm

■ LUCKNUTS

Light Hexagon Locknut No .BF507

Material: Steel

Size: 20mm 25mm 32mm

Size: 40mm 50mm



Heavy Hexagon Locknut No .BF508

Material: Steel

Size: 20mm 25mm 32mm

Size: 40mm 50mm



Milled Edge Circular Locknut No .BF505

Material: Steel

Size: 20mm 25mm 32mm

Size: 40mm 50mm



■ Normal Nipple

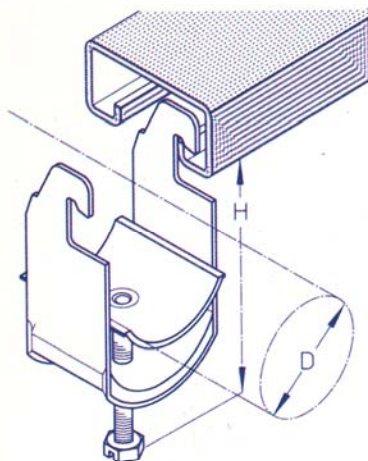
No.BF107

Material: Steel

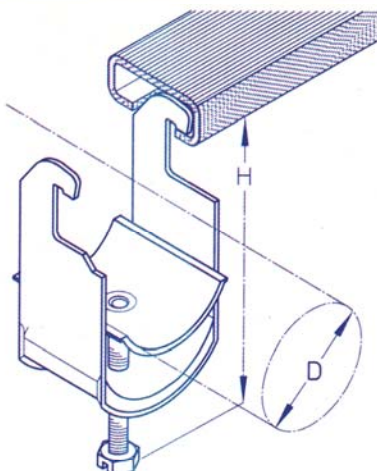
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Size: 40mm 50mm

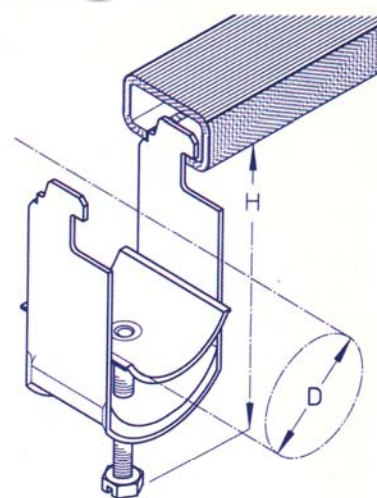




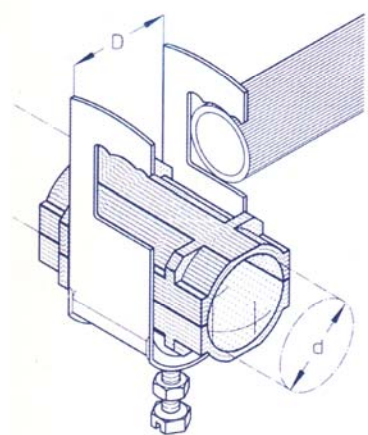
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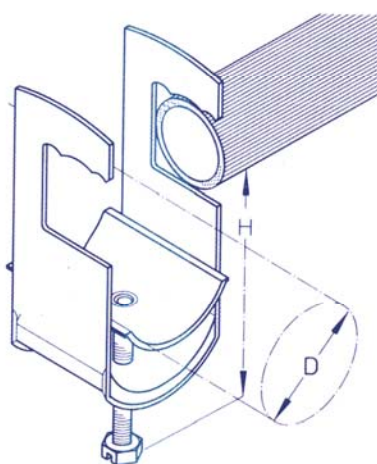
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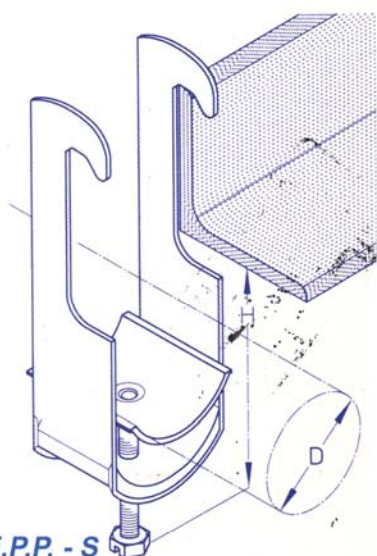
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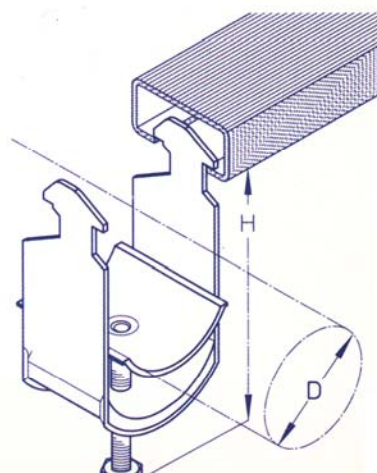
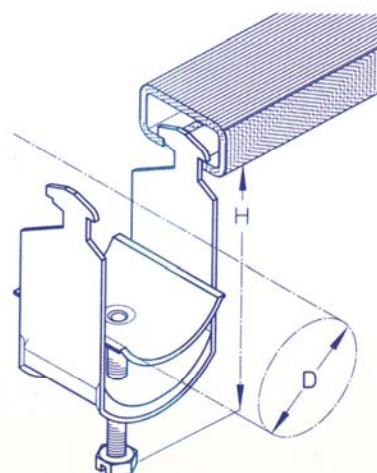
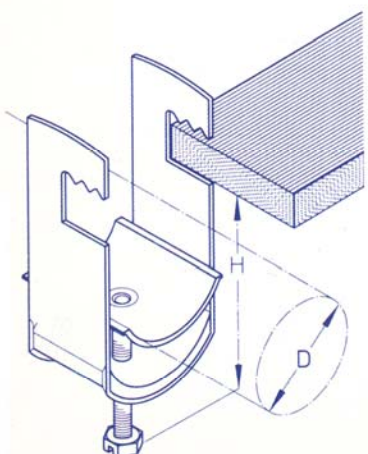
► E.P.P. - RU HW



► E.P.P. - RU



► E.P.P. - S









انواع گلندهای پلاستیکی



گلند دنباله دار ساده



انواع تبدیل ساده و EX



گلندهای ارت دار



گلندهای فلکسیبل



گلن فلزی ساده و EX



گلند فلکسیبل زانویی



گلند فلزی آرموردار



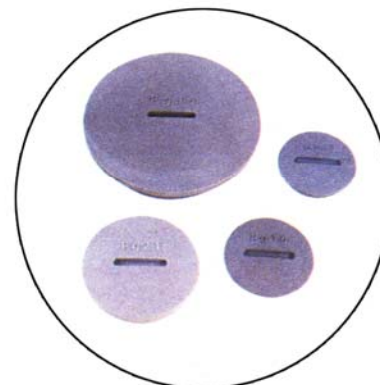
گلند فلزی آرموردار ساده



درپوش



گلند واترپروف Ip65



ventilation plugs



گلند خرطومی آلمانی



گلند فلزی NPT-M-PG
IP66-IP68



گلند زانویی



مغزی کابل تخت



گلندهای ضد انفجار پلاستیکی



درپوش هواگیر