

PIPING/HANGER SELECTION DATA (U.S.)



Piping Weight and Spacing - Water

Pipe Size (in.)	1	1.25	1.5	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24
Pipe Schedule	40	40	40	40	40	40	40	40	40	40	40	40	30	30	30	20	20
Max. Spacing (ft.)	7	7	9	10	11	12	14	16	17	19	20	23	25	27	28	30	32
Insulation (in.)*	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Wt. per Lin. Ft. (lbs.)																	
Pipe	1.7	2.3	2.7	3.7	5.8	7.6	10.8	14.7	19.0	28.6	40.6	53.7	54.7	62.7	82.2	78.8	94.9
Water	0.4	0.6	0.9	1.5	2.1	3.2	5.5	8.7	12.5	21.7	34.2	48.5	59.8	79.2	99.8	126.1	184.0
Insulation	0.6	0.7	0.8	0.9	1.1	1.3	1.5	3.0	3.4	4.2	5.1	6.0	6.5	7.3	8.2	9.0	10.7
Total	2.7	3.6	4.4	6.1	9.0	12.1	17.8	26.4	34.9	54.5	79.9	108.2	121.0	149.2	190.2	213.9	289.6
Wt. @ 10 ft. Spacing (lb.)	-	-	-	61	90	121	178	264	349	545	799	1082	1210	1492	1902	2139	2896
KNC Hanger Model No.																	
SH/SRH/SFH -1	-	-	-	70	120	120	220	370	370	600	800	1250	1250	1700	2200	2200	3500
SH/SRH/SFH -2	-	-	-	70	120	120	220	465	465	720	850	1025	1200	2000	2000	2500	-
SH/SRH/SFH -4	-	-	-	100	100	100	250	250	500	500	750	1000	1250	1600	2250	2250	3000
Recommended Rod Size (in.)**	-	-	-	0.38	0.38	0.38	0.50	0.50	0.50	0.50	0.62	0.62	0.75	0.75	0.88	0.88	1.00
Wt. @ 20 ft. Spacing (lb.)	-	-	-	-	-	-	-	-	-	-	1598	2163	2419	2984	-	-	-
KNC Hanger Model No.																	
SH/SRH/SFH -1	-	-	-	-	-	-	-	-	-	-	1700	2200	2465	3500	-	-	-
SH/SRH/SFH -2	-	-	-	-	-	-	-	-	-	-	2000	2500	2500	-	-	-	-
SH/SRH/SFH -4	-	-	-	-	-	-	-	-	-	-	1600	2250	2500	3000	-	-	-
Recommended Rod Size (in.)**	-	-	-	-	-	-	-	-	-	-	0.75	0.88	0.88	1.00	-	-	-
Max. Spacing (ft.)	7	7	9	10	11	12	14	16	17	19	20	23	25	27	28	30	32
Wt. @ Max. Spacing (lb.)	19	26	40	61	99	145	250	421	594	1036	1598	2487	3024	-	-	-	-
KNC Hanger Model No.																	
SH/SRH/SFH -1	35	35	70	70	120	220	370	500	600	1000	1700	2865	3500	-	-	-	-
SH/SRH/SFH -2	35	35	70	70	120	220	465	465	720	1200	2000	2500	-	-	-	-	-
SH/SRH/SFH -4	-	-	-	100	100	250	250	500	500	1250	1600	2500	3500	-	-	-	-
Recommended Rod Size (in.)**	0.25	0.38	0.38	0.38	0.38	0.38	0.50	0.50	0.50	0.62	0.75	0.88	1.00	-	-	-	-

Piping Weight and Spacing - Steam

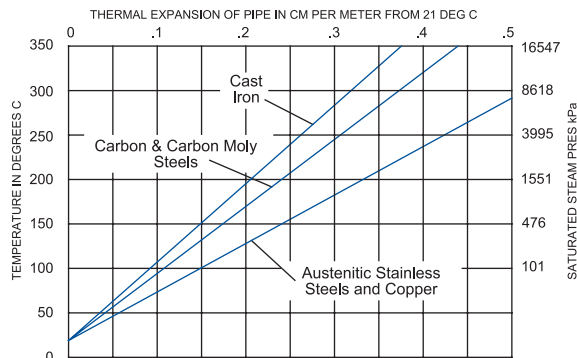
Pipe Size (in.)	1	1.25	1.5	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24
Pipe Schedule	40	40	40	40	40	40	40	40	40	40	40	40	30	30	30	20	20
Insulation (in.)*	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Wt. per Ft. (lbs.)																	
Pipe	1.7	2.3	2.7	3.7	5.8	7.6	10.8	14.7	19.0	28.6	40.6	53.7	54.7	62.7	82.2	78.8	94.9
Insulation	1.2	1.3	1.4	1.6	1.8	2.1	2.5	4.2	4.8	5.9	7.1	8.2	8.9	10.1	11.2	12.3	14.5
Total	2.9	3.6	4.1	5.3	7.6	9.7	13.3	18.9	23.8	34.6	47.7	61.9	63.6	72.8	93.4	91.1	109.4
Wt. @ 10 ft. Spacing (lb.)	-	36	41	53	76	97	133	189	238	346	477	619	636	728	934	911	1094
KNC Hanger Model No.																	
SH/SRH/SFH -1	-	35	35	70	70	120	120	220	220	370	500	625	625	800	1000	1000	1250
SH/SRH/SFH -2	-	35	35	70	70	120	120	220	220	465	720	720	720	720	1025	1025	1200
SH/SRH/SFH -4	-	-	-	100	100	100	100	250	250	500	500	750	750	750	1000	1000	1250
Recommended Rod Size (in.)**	-	0.38	0.38	0.38	0.38	0.38	0.38	0.50	0.50	0.50	0.50	0.62	0.62	0.62	0.62	0.62	0.62
Wt. @ 20 ft. Spacing (lb.)	-	-	-	-	-	-	-	-	477	691	954	1238	1273	1456	1867	1822	2187
KNC Hanger Model No.																	
SH/SRH/SFH -1	-	-	-	-	-	-	-	-	500	625	1000	1250	1250	1700	2200	2200	2200
SH/SRH/SFH -2	-	-	-	-	-	-	-	-	720	720	1025	2000	2000	2000	2000	2000	2500
SH/SRH/SFH -4	-	-	-	-	-	-	-	-	500	750	1000	1250	1600	1600	2250	2250	2250
Recommended Rod Size (in.)**	-	-	-	-	-	-	-	-	0.50	0.62	0.62	0.75	0.75	0.75	0.88	0.88	1.00
Max. Spacing (ft.)	9	10	12	13	14	15	17	19	21	24	26	30	32	35	37	39	39
Wt. @ Max. Spacing (lb.)	26	36	50	69	107	145	227	359	501	829	1240	1857	2036	2548	3454	3552	4266
KNC Hanger Model No.																	
SH/SRH/SFH -1	35	35	70	70	120	220	220	370	500	1000	1250	2200	2200	2865	-	-	-
SH/SRH/SFH -2	35	35	70	70	120	220	220	465	720	850	2000	2000	2000	2500	-	-	-
SH/SRH/SFH -4	-	-	-	100	100	100	250	500	500	1000	1250	2250	2250	2750	-	-	-
Recommended Rod Size (in.)**	0.25	0.38	0.38	0.38	0.38	0.38	0.50	0.50	0.50	0.62	0.75	0.88	1.00	1.00	-	-	-

*Insulation weight based on Magnesia Insulation.

**Rod size recommendation and max. hanger spacing based on MSS SP-69

Approximate Flanged Fitting Weights (lbs.)

Pipe Size (In.)	Bonnet Check Valve	Bonnet Gate Valve	Elbow	Tee	Flange
1	-	9	8	11	4
1.5	-	27	12	18	4
2	26	37	18	24	5
2.5	36	50	27	35	7
3	46	66	33	40	9
4	80	109	56	74	15
5	120	140	78	91	19
6	155	170	97	117	23
8	300	250	160	182	32
10	450	470	260	290	52
12	675	690	390	400	70
14	900	950	520	600	93
16	1200	1250	725	750	120
18	1371	1650	980	930	140
20	1772	2000	1300	1100	175
24	3000	3100	1850	1850	250



PIPING/HANGER SELECTION DATA (SI)



Piping Weight and Spacing - Water

Pipe Size (in.)	1	1.25	1.5	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24
Pipe Schedule	40	40	40	40	40	40	40	40	40	40	40	40	30	30	30	20	20
Max. Spacing (m)	2.1	2.1	2.7	3.0	3.4	3.7	4.3	4.9	5.2	5.8	6.1	7.0	7.6	8.2	8.5	9.1	9.8
Insulation (mm)*	25	25	25	25	25	25	25	38	38	38	38	38	38	38	38	38	38
Wt. per M (kg)																	
Pipe	2.5	3.4	4.0	5.5	8.6	11.3	16.1	21.9	28.3	42.6	60.5	80.0	81.4	93.3	122.4	117.3	141.3
Water	0.6	0.9	1.3	2.2	3.1	4.8	8.2	12.9	18.6	32.3	50.9	72.1	89.0	117.9	148.6	187.8	274.0
Insulation	0.9	1.0	1.2	1.3	1.6	1.9	2.2	4.5	5.1	6.2	7.6	9.0	9.7	10.9	12.2	13.4	15.9
Total	4.0	5.3	6.5	9.0	13.3	18.0	26.5	39.3	52.0	81.1	119.0	161.1	180.1	222.1	283.2	318.5	431.2
Wt. @ 3 m Spacing (kg)	-	-	-	27	40	54	80	118	156	243	357	483	540	666	850	955	1294
KNC Hanger Model No.																	
SH/SRH/SFH -1	-	-	-	70	120	120	220	370	370	600	800	1250	1250	1700	2200	2200	3500
SH/SRH/SFH -2	-	-	-	70	120	120	220	465	465	720	850	1025	1200	2000	2000	2500	-
SH/SRH/SFH -4	-	-	-	100	100	100	250	250	500	500	750	1000	1250	1600	2250	2250	3000
Recommended Rod Size (mm)**	-	-	-	10	10	10	13	13	13	13	16	16	19	19	22	22	25
Wt. @ 6 m Spacing (kg)	-	-	-	-	-	-	-	-	-	-	714	966	1080	1332	-	-	-
KNC Hanger Model No.																	
SH/SRH/SFH -1	-	-	-	-	-	-	-	-	-	-	1700	2200	2465	3500	-	-	-
SH/SRH/SFH -2	-	-	-	-	-	-	-	-	-	-	2000	2500	2500	-	-	-	-
SH/SRH/SFH -4	-	-	-	-	-	-	-	-	-	-	1600	2250	2500	3000	-	-	-
Recommended Rod Size (mm)**	-	-	-	-	-	-	-	-	-	-	19	22	22	25	-	-	-
Max. Spacing (m)	2.1	2.1	2.7	3.0	3.4	3.7	4.3	4.9	5.2	5.8	6.1	7.0	7.6	8.2	8.5	9.1	9.8
Wt. @ Max. Spacing (kg)	8.6	11.8	18.1	27.7	44.9	65.8	113.4	190.9	269.4	469.9	724.8	1128.1	1371.7	-	-	-	-
KNC Hanger Model No.																	
SH/SRH/SFH -1	35	35	70	70	120	220	370	500	600	1000	1700	2865	3500	-	-	-	-
SH/SRH/SFH -2	35	35	70	70	120	220	465	465	720	1200	2000	2500	-	-	-	-	-
SH/SRH/SFH -4	-	-	-	100	100	250	250	500	750	1250	1600	2500	3500	-	-	-	-
Recommended Rod Size (mm)**	6	10	10	10	10	10	13	13	13	16	19	22	25	-	-	-	-

Piping Weight and Spacing - Steam

Pipe Size (in.)	1	1.25	1.5	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24
Pipe Schedule	40	40	40	40	40	40	40	40	40	40	40	40	30	30	30	20	20
Insulation (mm)*	38	38	38	38	38	38	38	51	51	51	51	51	51	51	51	51	51
Wt. per m (kg)																	
Pipe	2.5	3.4	4.0	5.5	8.6	11.3	16.1	21.9	28.3	42.6	60.5	80.0	81.4	93.4	122.4	117.3	141.3
Insulation	1.8	1.9	2.1	2.4	2.7	3.1	3.7	6.2	7.1	8.8	10.5	12.2	13.3	15.0	16.7	18.3	21.6
Total	4.3	5.3	6.1	7.9	11.3	14.4	19.8	28.1	35.4	51.4	71.0	92.2	94.7	108.4	139.1	135.6	162.9
Wt. @ 3 m Spacing (kg)	-	16	18	24	34	43	59	84	106	154	213	277	284	325	417	407	489
KNC Hanger Model No.																	
SH/SRH/SFH -1	-	35	35	70	70	120	120	220	220	370	500	625	625	800	1000	1000	1250
SH/SRH/SFH -2	-	35	35	70	70	120	120	220	220	465	720	720	720	720	1025	1025	1200
SH/SRH/SFH -4	-	-	-	100	100	100	100	250	250	500	500	750	750	750	1000	1000	1250
Recommended Rod Size (mm)**	-	10	10	10	10	10	10	13	13	13	13	16	16	16	16	16	16
Wt. @ 6 m Spacing (kg)	-	-	-	-	-	-	-	-	212	308	426	554	568	650	834	814	978
KNC Hanger Model No.																	
SH/SRH/SFH -1	-	-	-	-	-	-	-	-	500	625	1000	1250	1250	1700	2200	2200	2200
SH/SRH/SFH -2	-	-	-	-	-	-	-	-	720	720	1025	2000	2000	2000	2000	2000	2500
SH/SRH/SFH -4	-	-	-	-	-	-	-	-	500	750	1000	1250	1600	1600	2250	2250	2250
Recommended Rod Size (mm)**	-	-	-	-	-	-	-	-	13	16	16	19	19	19	22	22	25
Max. Spacing (m)	2.7	3.0	3.7	4.0	4.3	4.6	5.2	5.8	6.4	7.3	8.0	9.1	9.8	10.7	11.3	11.9	11.9
Wt. @ Max. Spacing (kg)	12	16	23	31	49	66	103	163	227	376	562	842	924	1156	1567	1611	1935
KNC Hanger Model No.																	
SH/SRH/SFH -1	35	35	70	70	120	220	220	370	500	1000	1250	2200	2200	2865	-	-	-
SH/SRH/SFH -2	35	35	70	70	120	220	220	465	720	850	2000	2000	2000	2500	-	-	-
SH/SRH/SFH -4	-	-	-	100	100	100	250	500	500	1000	1250	2250	2250	2750	-	-	-
Recommended Rod Size (mm)**	6	10	10	10	10	10	13	13	13	16	19	22	25	25	-	-	-

*Insulation weight based on Magnesia Insulation.

**Rod size recommendation and max. hanger spacing based on MSS SP-69

Approximate Flanged Fitting Weights (lbs.)

Pipe Size (In.)	Bonnet Check Valve	Bonnet Gate Valve	Elbow	Tee	Flange
1	-	4.1	3.6	5.0	1.8
1.5	-	12.2	5.4	8.2	1.8
2	11.8	16.8	8.2	10.1	2.3
2.5	16.3	22.7	12.2	15.9	3.2
3	20.1	30.0	15.0	18.1	4.1
4	36.3	49.4	25.4	33.6	6.8
5	54.4	63.5	35.4	41.3	8.6
6	70.3	77.1	44.0	53.1	10.4
8	136.1	113.4	72.6	82.6	14.5
10	204.1	213.2	117.9	131.5	23.6
12	306.2	313.0	176.9	181.4	31.8
14	408.2	430.9	235.9	272.2	42.2
16	544.3	567.0	328.9	340.2	54.4
18	621.9	748.4	444.5	421.8	63.5
20	803.8	907.2	589.7	499.0	79.4
24	1360.8	1406.1	839.1	839.1	113.4

