

Technical Information
Thread Reference Tables

Thread Type	Thread	Peppers Reference	Pitch	TPI	Major Dia	Thread Length	Max Clearance Hole Dia
ISO Metric IEC 60423	M16	M16	1.50	16.93	15.97	16.0	16.7
	M20	M20	1.50	16.93	19.97	16.0	20.7
	M25	M25	1.50	16.93	24.97	16.0	25.7
	M32	M32	1.50	16.93	31.97	16.0	32.7
	M40	M40	1.50	16.93	39.97	16.0	40.7
	M50	M50	1.50	16.93	49.97	16.0	50.7
	M63	M63	1.50	16.93	62.97	19.0	63.7
	M75	M75	1.50	16.93	74.97	19.0	75.7
	M80	M80	2.00	12.70	79.97	25.0	80.7
	M85	M85	2.00	12.70	84.97	25.0	85.7
	M90	M90	2.00	12.70	89.97	25.0	90.7
M100	M100	2.00	12.70	99.97	25.0	100.7	
NPT ANSI B1.20.1	1/2"	050NPT	1.81	14.0	20.90	19.9	21.60
	3/4"	075NPT	1.81	14.0	26.26	20.2	26.96
	1"	100NPT	2.20	11.5	32.84	25.0	33.54
	1-1/4"	125NPT	2.20	11.5	41.61	25.6	42.31
	1-1/2"	150NPT	2.20	11.5	47.68	26.0	48.37
	2"	200NPT	2.20	11.5	59.72	26.9	60.42
	2-1/2"	250NPT	3.18	8.0	72.16	39.9	72.86
	3"	300NPT	3.18	8.0	88.06	41.5	88.76
	3-1/2"	350NPT	3.18	8.0	100.78	42.8	101.48
	4"	400NPT	3.18	8.0	113.43	44.0	114.13
	NPS ANSI B1.20.1	1/2"	050NPS	1.81	14.0	20.90	19.9
3/4"		075NPS	1.81	14.0	26.26	20.2	26.96
1"		100NPS	2.20	11.5	32.84	25.0	33.54
1-1/4"		125NPS	2.20	11.5	41.61	25.6	42.31
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3-1/2"		350NPS	3.18	8.0	100.78	42.8	101.48
4"		400NPS	3.18	8.0	113.43	44.0	114.13
PG DIN 40430		PG7	PG7	1.27	20.0	12.50	16.0
	PG9	PG9	1.41	18.0	15.20	16.0	15.90
	PG11	PG11	1.41	18.0	18.60	16.0	19.30
	PG13.5	PG13.5	1.41	18.0	20.40	16.0	21.10
	PG16	PG16	1.41	18.0	22.50	16.0	23.20
	PG21	PG21	1.59	16.0	28.30	16.0	29.00
	PG29	PG29	1.59	16.0	37.00	16.0	37.70
	PG36	PG36	1.59	16.0	47.00	16.0	47.70
	PG42	PG42	1.59	16.0	54.00	16.0	54.70
	PG48	PG48	1.59	16.0	59.30	16.0	60.00
	ISO Pipe Parallel ISO R/7 BS2779 (BSPP, G, R & PF)	1/2"	050BSP	1.81	14.0	20.96	19.9
3/4"		075BSP	1.81	14.0	26.44	20.2	27.14
1"		100BSP	2.31	11.0	33.25	25.0	33.95
1-1/4"		125BSP	2.31	11.0	41.91	25.6	42.61
1-1/2"		150BSP	2.31	11.0	47.80	26.0	48.50
2"		200BSP	2.31	11.0	59.61	26.9	60.31
2-1/2"		250BSP	2.31	11.0	75.18	39.9	75.88
3"		300BSP	2.31	11.0	87.88	41.5	88.58
3-1/2"		350BSP	2.31	11.0	100.33	42.8	101.03
4"		400BSP	2.31	11.0	113.03	44.0	113.73
ISO Pipe Taper ISO R/7 BS21 (BSPT & GK)		1/2"	050BST	1.81	14.0	20.96	19.9
	3/4"	075BST	1.81	14.0	26.44	20.2	27.14
	1"	100BST	2.31	11.0	33.25	25.0	33.95
	1-1/4"	125BST	2.31	11.0	41.91	25.6	42.61
	1-1/2"	150BST	2.31	11.0	47.80	26.0	48.50
	2"	200BST	2.31	11.0	59.61	26.9	60.31
	2-1/2"	250BST	2.31	11.0	75.18	39.9	75.88
	3"	300BST	2.31	11.0	87.88	41.5	88.58
	3-1/2"	350BST	2.31	11.0	100.33	42.8	101.03
	4"	400BST	2.31	11.0	113.03	44.0	113.73

Glands are available with Metric or NPT threads as standard. All other thread forms are manufactured to order

SPMH & SPHH Dimensional Data

SPHH Information Table							
ISO METRIC Thread	A/F	Overall Length	Weight	NPT Thread	A/F	Overall Length	Weight
M12	19.0	20.5	0.024	1/4"	20.0	19.1	0.029
M16	23.4	20.5	0.032	3/8"	24.0	19.3	0.045
M20	27.0	21.0	0.049	1/2"	27.9	24.4	0.076
M25	31.8	21.0	0.078	3/4"	33.0	24.7	0.118
M32	37.6	21.0	0.134	1"	41.2	30.0	0.225
M40	47.2	21.5	0.218	1-1/4"	50.0	31.1	0.379
M50	57.2	21.5	0.333	1-1/2"	57.2	31.5	0.499
M63	69.9	22.0	0.544	2"	69.9	32.9	0.814
M75	90.0	22.0	0.777	2-1/2"	82.5	46.4	1.671
M80	90.0	28.0	1.050	3"	106.4	49.5	2.652
M85	104.8	28.0	1.225	3-1/2"	114.3	50.8	3.566
M90	104.8	28.0	1.326	4"	127.0	52.0	4.602
M100	114.3	28.0	1.680				

All dimensions in mm / weight in kgs

SPMH Information Table							
ISO METRIC Thread	Hex Socket A/F	Overall Length	Weight	NPT Thread	Hex Socket A/F	Overall Length	Weight
M12	6.0	21.5	0.020	1/4"	6.0	20.6	0.027
M16	8.0	21.5	0.032	3/8"	8.0	20.8	0.041
M20	10.0	21.5	0.049	1/2"	10.0	25.4	0.062
M25	12.0	21.5	0.078	3/4"	12.0	25.7	0.125
M32	12.0	21.5	0.134	1"	12.0	30.5	0.202
M40	14.0	21.5	0.218	1-1/4"	14.0	31.1	0.337
M50	17.0	21.5	0.333	1-1/2"	17.0	31.5	0.451
M63	17.0	21.5	0.544	2"	17.0	32.4	0.743
M75	19.0	21.5	0.777	2-1/2"	19.0	45.4	1.499
M80	22.0	25.5	1.050	3"	22.0	47.0	2.310
M85	22.0	25.5	1.225	3-1/2"	22.0	48.3	3.133
M90	22.0	25.5	1.326	4"	22.0	49.5	4.086
M100	22.0	25.5	1.680				

All dimensions in mm / weight in kgs
 Head Diameter = Minimum 5.5mm larger than the major thread diameter