

## General Port Specifications

SAE PORTS	Per ISO 11926-1 & SAE J1926-1						
	THREAD	D1 (min)	D2 $-0.002$	L2 $+0.015$	L3 (min)	L4 (min)	Z $\pm 1^\circ$
-4	7/16" - 20	0.827	0.488	0.094	0.453	0.547	12
-6	9/16" - 18	0.984	0.614	0.098	0.500	0.609	12
-8	3/4" - 16	1.181	0.811	0.098	0.563	0.688	15
-10	7/8" - 14	1.339	0.941	0.098	0.657	0.781	15
-12	1 1/16" - 12	1.614	1.150	0.130	0.750	0.906	15
-16	1 5/16" - 12	1.929	1.398	0.130	0.750	0.906	15
-20	1 5/8" - 12	2.283	1.713	0.130	0.750	0.906	15
-24	1 7/8" - 12	2.559	1.961	0.130	0.750	0.906	15
-32	2 1/2" - 12	3.465	2.587	0.130	0.750	0.906	15

NPT PORTS	Per SAE J476 & ANSI B1.20.3			
	THREAD	D2	L3	L4
1/16"	1/16" - 27	0.32	0.31	0.38
1/8"	1/8" - 27	0.42	0.31	0.38
1/4"	1/4" - 18	0.55	0.44	0.47
3/8"	3/8" - 18	0.69	0.47	0.53
1/2"	1/2" - 14	0.85	0.59	0.69
3/4"	3/4" - 14	1.06	0.63	0.75
1"	1" - 11.5	1.34	0.75	0.84
1 1/4"	1 1/4" - 11.5	1.68	0.78	0.84
1 1/2"	1 1/2" - 11.5	1.92	0.81	0.88
2"	2" - 11.5	2.39	0.81	0.91

BSPP PORTS	Per ISO 1179-1 & BS 2779				
	THREAD	D1 (min)	D2	L3 (min)	L4 (min)
1/4"	G 1/4" - 19	0.846	0.524	0.472	0.625
3/8"	G 3/8" - 19	1.004	0.661	0.472	0.625
1/2"	G 1/2" - 14	1.181	0.835	0.551	0.748
3/4"	G 3/4" - 14	1.437	1.047	0.630	0.906
1"	G 1" - 11	1.811	1.319	0.709	1.024
1 1/4"	G 1 1/4" - 11	2.244	1.661	0.787	1.142
1 1/2"	G 1 1/2" - 11	2.500	1.894	0.866	1.142

BSPT PORTS	Per ISO 7			
	THREAD	D2	L3	L4
1/4"	1/4" - 19	0.55	0.44	0.47
3/8"	3/8" - 19	0.69	0.47	0.53
1/2"	1/2" - 14	0.85	0.59	0.69
3/4"	3/4" - 14	1.06	0.63	0.75
1"	1" - 11	1.34	0.75	0.84
1 1/4"	1 1/4" - 11	1.68	0.78	0.84
1 1/2"	1 1/2" - 11	1.92	0.81	0.88

METRIC PORTS	Per ISO 6149-1							
	THREAD	D1 (min)	D2 $+0.004$	D3 (min)	L2 $+0.015$	L3 (min)	L4 (min)	Z $\pm 1^\circ$
M10	M10 x 1.0	0.787	0.437	0.630	0.063	0.393	0.453	12
M14	M14 x 1.5	0.984	0.622	0.827	0.094	0.453	0.551	15
M18	M18 x 1.5	1.181	0.780	1.024	0.094	0.571	0.669	15
M22	M22 x 1.5	1.339	0.937	1.142	0.094	0.610	0.709	15
M27	M27 x 2.0	1.575	1.157	1.339	0.125	0.748	0.866	15
M33	M33 x 2.0	1.929	1.393	1.693	0.125	0.748	0.866	15
M42	M42 x 2.0	2.362	1.750	2.047	0.125	0.768	0.886	15
M48	M48 x 2.0	2.598	1.984	2.244	0.125	0.866	0.984	15

Notes:

- 1) For Metric Ports, D1 Spotface for ports with identification ridge as shown by dimension D3.
- 2) For Metric Ports, when identification ridge is not machined, port must be stamped as "Metric" or component must be stamped "ISO 6149-1 Metric"
- 3) For all Port Types, L4 tap drill depth for L3 full thread depth requires the use of a bottoming tap.

THIS DATA IS FOR REFERENCE ONLY. CONSULT THE APPROPRIATE STANDARDS FOR CRITICAL DIMENSIONS AND RATINGS.

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