



**METRIC ISO 6419 PORT REFERENCE DIMENSIONS**  
(2/12/14)

R E F	Tube OD	B (1) Thread Size	C		D (2) Min. Dia. MM	J Full Thread Depth, Min. MM	K +.12 -.0	O Min. Dia. MM	P (3) Min. MM	S Max. MM	U (5) Dia. +0.005 -.000	Y (3) MM	Z Angle ±1 Deg.
			Min	Max									
A	4	M8 X 1.0	6.92	7.15	3	10.0	1.6	11	11.5	1.0	9.1	17	12
B	5	M10 X 1.0	8.92	9.15	4	10.0	1.6	13	11.5	1.0	11.1	20	12
C	6	M12 X 1.5	10.38	10.68	6	11.5	2.4	16	14.0	1.5	13.8	22	15
D	8	M14 X 1.5	12.38	12.68	7.5	11.5	2.4	18	14.0	1.5	15.8	25	15
E	10	M16 X 1.5	14.38	14.68	9	13.0	2.4	20	15.5	1.5	17.8	28	15
F	12	M18 X 1.5	16.38	16.68	11	14.5	2.4	22	16.5	2.0	19.8	29	15
G	16	M22 X 1.5	20.38	20.68	14	15.5	2.4	26	18.0	2.0	23.8	34	15
H	20	M27 X 2.0	24.84	25.21	16	19.0	3.1	32	22.0	2.0	29.4	40	15
I	22	M30 X 2.0	27.84	28.21	18	19.0	3.1	35	22.0	2.0	32.4	43	15
J	25	M33 X 2.0	30.84	31.21	22	19.0	3.1	38	22.0	2.5	35.4	49	15
K	32	M42 X 2.0	39.84	40.21	30	19.5	3.1	47	22.5	2.5	44.4	60	15
L	38	M48 X 2.0	45.84	46.21	36	19.5	3.1	53	22.5	2.5	50.4	66	15
	50	M60 X 2.0	57.84	58.21	40	21.5	3.1	65	24.5	2.5	62.4	76	15
FOR CARTRIDGE CAVITY ONLY (SEE ISO 7789)													
		M20 X 1.5 <sup>(5)</sup>	18.38	18.68		14.5	2.4	24		2.0	21.8	32	15

- Tolerance class 6H.
- Recommended minimum connecting hole application may require a different size.
- Tap drill depths given require use of a bottoming taps to produce the specified full thread lengths. Where standard taps are used, the tap drill depths must be increased accordingly.
- Preferred for diagnostic port applications.
- Preferred for cartridge valve applications.

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