

HYDRAULIC HOSE CONNECTION SIZING

Data Sheet 15081402 Rev.01

Selecting the right hose and fittings combination usually belongs to the last steps in the design of a hydraulic system and its importance is often overlooked and underestimated. The right hose and fitting combination is however, vital for the overall functionality and long term service life of the complete system.

This quick guide helps you translate thread sizes into their connection identifiers and suitable hose diameters. KAITE offer a full range of hydraulic hose and connection types to suit your process.



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Metric Series, Quick Guide

DN	Pipe I.D.		Size	Pipe I.D.	Metric ISO Thread		
	LL + L Series mm	S Series mm		inch	LL Series	L Series	S Series
2	4				M8 x 1		
4	5	6	-2		M10 x 1		M14 x 1.5
5	6	8	-3	3/16"	M12 x 1.5	M12 x 1.5	M16 x 1.5
6	8	10	-4	1/4"	M14 x 1.5	M14 x 1.5	M18 x 1.5
8	10	12	-5	5/16"	M16 x 1.5	M16 x 1.5	M20 x 1.5
10	12	14	-6	3/8"	M18 x 1.5	M18 x 1.5	M22 x 1.5
12	15	16	-8	1/2"	M22 x 1.5	M22 x 1.5	M24 x 1.5
16	18	20	-10	5/8"	M26 x 1.5	M26 x 1.5	M30 x 2
20	22	25	-12	3/4"	M30 x 1.5	M30 x 2	M36 x 2
25	28	30	-16	1"	M38 x 1.5	M36 x 2	M42 x 2
32	35	38	-20	1 1/4"	M45 x 1.5	M45 x 2	M52 x 2
40	42		-24	1 1/2"	M52 x 1.5	M52 x 2	
50			-32	2"			

Imperial Series, Quick Guide

DN	Pipe I.D.		Size	Pipe I.D. <i>inch</i>	Imperial Thread		
	<i>LL + L Series</i> mm	<i>S Series</i> mm			<i>BSP</i> (<i>BSPP / BSPT</i>)	<i>NPTF / NPSM</i> 30°	<i>SAE J512</i> 90° taper
2	4						
4	5	6	-2	1/8"	1/8" - 28	1/8" - 27	5/16" - 24
5	6	8	-3	3/16"	1/8" - 28		3/8" - 24
6	8	10	-4	1/4"	1/4" - 19	1/4" - 18	7/16" - 20
8	10	12	-5	5/16"			1/2" - 20
10	12	14	-6	3/8"	3/8" - 19	3/8" - 18	9/16" - 18
12	15	16	-8	1/2"	1/2" - 14	1/2" - 14	3/4" - 16
16	18	20	-10	5/8"	5/8" - 14		7/8" - 14
20	22	25	-12	3/4"	3/4" - 14	3/4" - 14	1 1/16" - 12
25	28	30	-16	1"	1" - 11	1" - 11 1/2	1 5/16" - 12
32	35	38	-20	1 1/4"	1 1/4" - 11	1 1/4" - 11 1/2"	1 5/8" - 12
40	42		-24	1 1/2"	1 1/2" - 11	1 1/2" - 11 1/2"	1 7/8" - 12
50			-32	2"	2" - 11	2" - 11 1/2"	2 1/2" - 12