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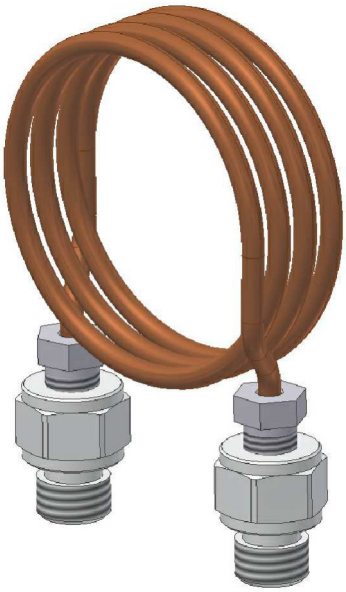
INTZA LUBRICATION SYSTEMS

Capillary tubes



Application

The objective of hydrostatic lubrication is to generate a lubricating film between friction elements to avoid wearing and sudden movements.

A pressure pump feeds the hydrostatic chambers through resistors (capillary tubes) that monitor their flow and keep constant pressure by adjusting it at the pressure relief valve.

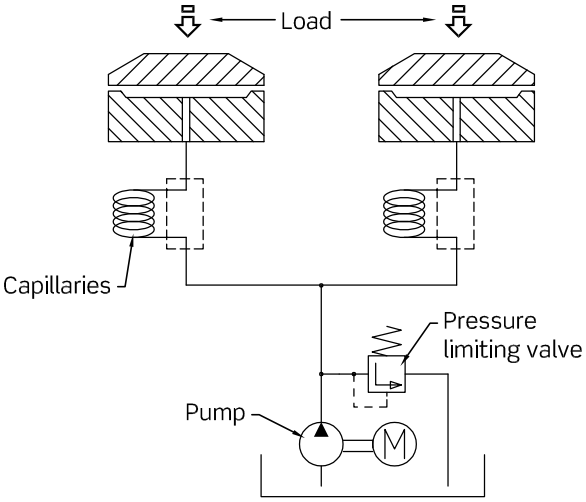
This way friction points will remain separated even when the machine stops.

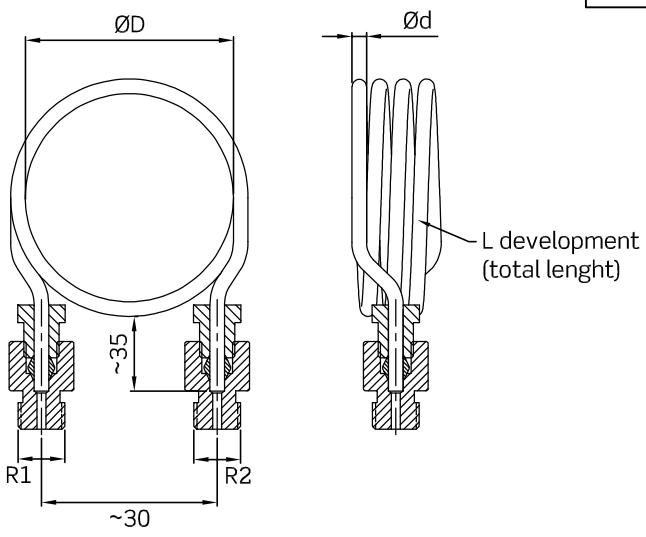
Technical characteristics

Sections and materials of resistors
Øext 2.5 / Øint 1.5..... material copper
Øext 2.5 / Øint 0.5..... material AISI 316

Two factors have an influence on lift (distance between friction materials):
- The flow rate.
- Capillary tube Δp

Therefore it is necessary to define for each case the diameter and the total length of the tubes.





References

SB03	/	A-3	/	X	/	X	/	X	/	X	/	X

Ø capillary tube	X	L	Ø D	X	R1	X	R2	X
Ext. Ø 2,5 Int. Ø 0,5	0	(.....) Total lenght in mm	50 mm	5	Without	0	Without	0
Ext. Ø 2,5 Int. Ø 1,5	1		60 mm	6	G 1/8	1	G 1/8	1
			70 mm	7	M8x1	2	M8x1	2
			80 mm	8				

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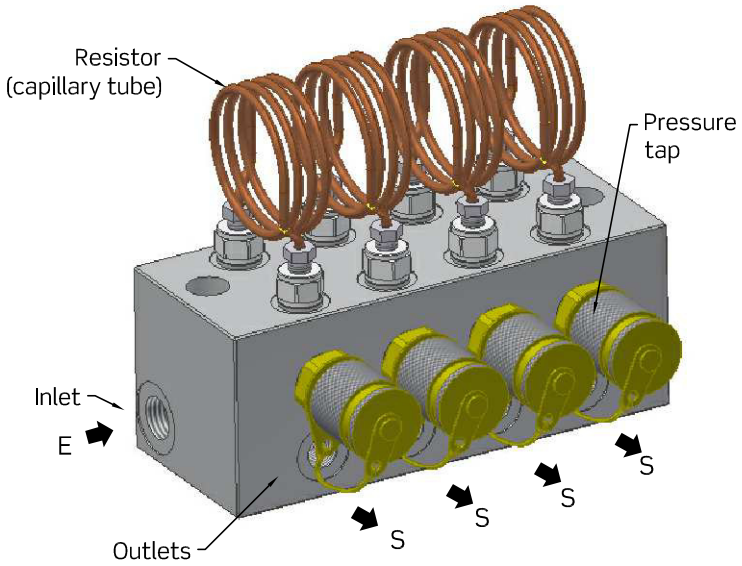
Blocks with capillary tubes



Capillary tubes are assembled in supply blocks that are designed to the requirements of the final user.
Usually these blocks incorporate outlets to assemble pressure taps to be able to regularly verify the correct operation of the system.
Only the most usual dimensions are shown however they can be made as per client specification using other dimensions.
Block material: aluminium.

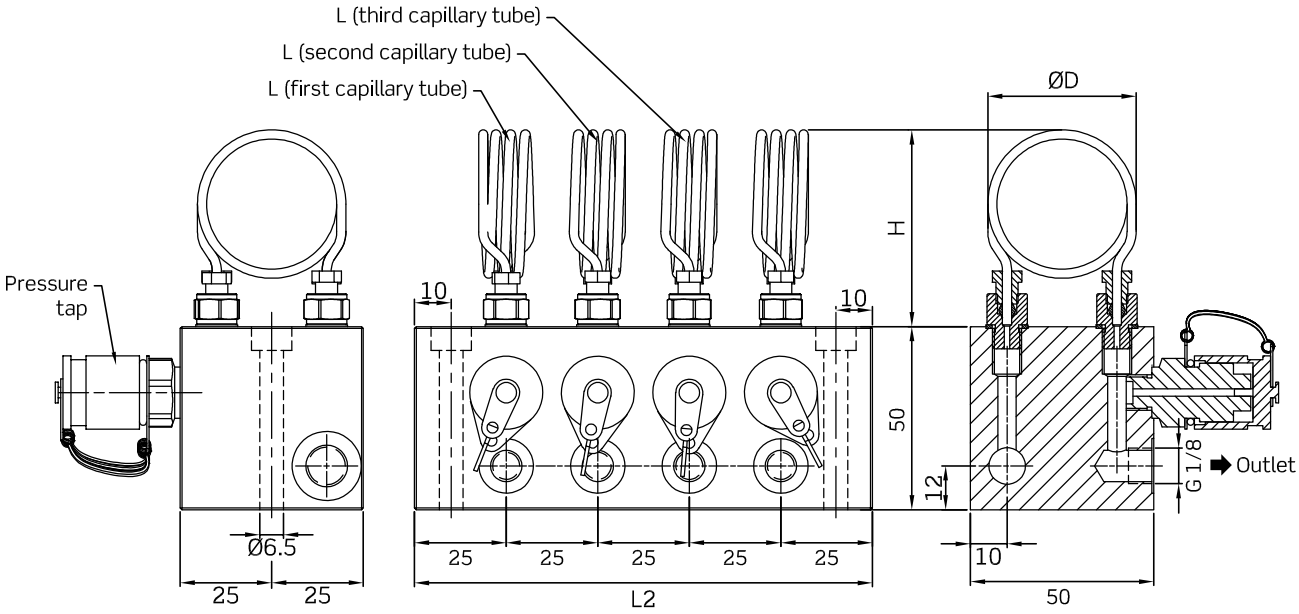
References

VF01 / A-1 / X - X X - X X - X X - X X - X X

N° of outlets	X
1....10	1...10

Ø capillary tube	X
Ext. Ø 2,5 / Int. Ø 0,5	0
Ext. Ø 2,5 / Int. Ø 1,5	1

L
(.....) Total lenght in mm



Dimensions

Capillary tube	ØD	H
Øext 2.5 / Øint 1.5	Inquire	Inquire
Øext 2.5 / Øint 0.5	Inquire	Inquire

Block	1 out.	2 out.	3 out.	4 out.	5 out.	6 out.	7 out.	8 out.	9 out.	10 out.
L2	50	75	100	125	150	175	200	225	250	275