

Telescoping

CHS

Female (outer) Size				Male (inner) Size		Minimum Clearance mm
DN	Quality	d _o	t	DN	d _o	
15	Light	21.3	x	-	-	-
	Medium		2.6	-	-	-
	Heavy		3.2	-	-	-
20	Extra Light	26.9	x	15	21.3	0.4
25	Extra Light	33.7	x	20	26.9	1.6
	Light		2.6	20	26.9	0.4
	Medium		3.2	15	21.3	4.8
	Heavy		4.0	15	21.3	3.2
32	Extra Light	42.4	x	25	33.7	3.5
	Light		2.6	25	33.7	2.3
	Medium		3.2	25	33.7	1.1
	Heavy		4.0	20	26.9	6.3
40	Extra Light	48.3	x	32	42.4	0.1
	Light		2.9	25	33.7	7.6
	Medium		3.2	25	33.7	7.0
	Heavy		4.0	25	33.7	5.4
	Extra Heavy		5.4	25	33.7	2.6
50	Extra Light	60.3	x	40	48.3	6.4
	Light		2.9	40	48.3	5.2
	Medium		3.6	40	48.3	3.8
	Heavy		4.5	40	48.3	2.0
	Extra Heavy		5.4	40	48.3	0.2

Female (outer) Size				Male (inner) Size		Minimum Clearance mm
DN	Quality	d _o	t	DN	d _o	
65	Extra Light	76.1	x	50	60.3	9.8
	Galtube®		2.6	50	60.3	9.2
	Light		3.2	50	60.3	8.0
	Medium		3.6	50	60.3	7.2
	Heavy		4.5	50	60.3	5.4
80	Extra Heavy	88.9	x	50	60.3	2.6
	Light	88.9	x	65	76.1	4.8
	Medium		4.0	65	76.1	3.2
90	Heavy		5.0	65	76.1	1.2
	Extra Heavy		5.9	50	60.3	15.3
	Extra Light	101.6	x	80	88.9	5.6
100	Light		3.2	80	88.9	4.4
	Medium		4.0	80	88.9	2.8
	Heavy		5.0	80	88.9	0.8
125	Extra Light	114.3	x	90	101.6	4.1
	Light		3.6	90	101.6	3.3
	Medium		4.5	90	101.6	1.5
	Heavy		5.4	80	88.9	12.6
150	Extra Light	139.7	x	100	114.3	16.9
	Light		3.5	100	114.3	15.9
	Medium		5.0	100	114.3	12.9
	Heavy		5.4	100	114.3	12.1
150	Light	165.1	x	125	139.7	15.4
	Medium		5.0	125	139.7	12.4
	Heavy		5.4	125	139.7	11.6

NOTE

Clearance = (AS1163 Min d_o - 2t) - (AS1163 Max d_o)

CHS is not a precision tube and all dimensions shown in the chart, although in accordance with the specifications, may vary marginally within the tolerance bands permitted.

Sizes shown in bold print are sizes that provide a clearance of less than 2.0mm. The internal weld bead will need to be considered when closer fits are indicated. Where telescoping over some length is desired, additional allowance may be needed for straightness. For tight fits it is recommended that some form of testing be carried out prior to committing material.

HOW TO USE THIS CHART

1. Select the size of female (or outer) member closest to your requirements from the left hand column.
2. Depending on the application select the clearance required between the two members.

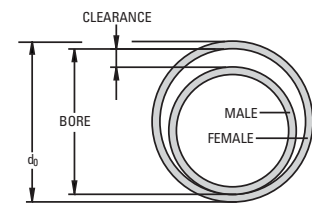
Members may need to slide freely inside each other, or be locked with a pin, spot welded or fixed with wedges. This means, in some cases, a 'sloppy' fit may be suitable, while for others the tightest fit possible may be more appropriate. (See Note 6 Press Fit).

3. Having selected the most suitable clearance for your application, take the appropriate size of the male (inner) section from the centre column, eg:

Female Section (outer)	Male Section (inner)	Clearance mm
76.1x5.9	60.3	2.6

Note that clearance is total available difference between member dimensions, not the gap on both sides.

4. Where two telescoping sections are being used, thickness should be similar and will be determined by normal structural requirements. If a third section is to be used, consideration of both clearance and thickness within the size list available may be required.



5. Pipe may need to be fixed against twisting by welding or bolting.

6. Press Fit. For short pieces with no need for separation or sliding an interference fit can be achieved using the available ductility of the steel.

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