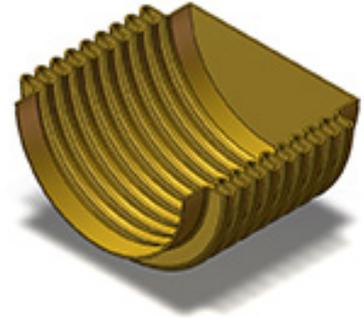




Seamless bellows are flexible bellows manufactured from seamless metal tubes. The main feature of seamless bellows is that there is no longitudinal weld. This is in contrast to welded bellows with one or more longitudinal welds. These welds are often the weak spots of welded bellows. Without longitudinal welding, seamless bellows are superior in corrosion resistance and durability. This seamless design not only eliminates welding residual stress and potential defects, but also greatly improves the bellows pressure resistance. Seamless bellows are preferred for applications where life time and safety are critical, such as aerospace, petrochemical and medical equipment. Although the purchase cost may be higher than for welded bellows, in the long run it effectively reduces the risk of downtime due to failure and costly maintenance.



The main raw materials of seamless bellows is a variety of stainless steel and copper alloy. The process begins with a thin sheet of metal, which is first stamped into a precisely sized disk. The disk is then shaped into a small cup, closed at one end and open at the other. After being softened by high temperature annealing, the small cup will be drawn into precision seamless tube with uniform wall thickness. These ultra-thin-walled metal tubes are hydroformed into flexible, high durable seamless bellows.

NO.	Inside Diameter mm	Outside Diameter mm	Wall Thickness mm
1	7	12	0.08, 0.10
2	8	14	0.08, 0.10
3	9	16	0.08, 0.10
4	10	18, 19	(0.08), 0.10, 0.12
5	11	20	0.10, 0.12
6	12 (13)	22, 24	0.10, 0.12
7	16 (17)	28	0.10, 0.12, (0.14)
8	18 (19)	31, 32	(0.10), 0.12, 0.14
9	20 (19.5)	34, 35	(0.10), 0.12, 0.14
10	22 (22.5)	38	0.12, 0.14
11	25	40	0.12, 0.14
12	28	45	(0.12), 0.12, 0.14
13	30	50	0.14, 0.16
14	34	55	0.16, 0.18
15	36	60	0.18, 0.20
16	40	65	0.18, 0.20

**NOTE**

The dimensions in parentheses are not recommended.  
Reference: JB/T 9484-2010 Dimensions of deep bellows.