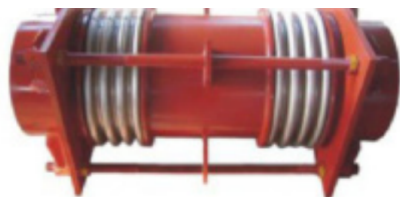


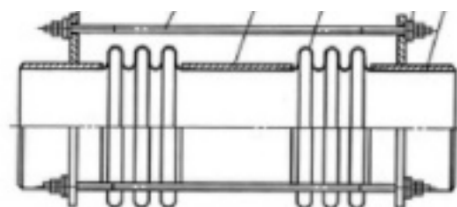


JDH Large Tie-Rod Lateral Corrugated Expansion Joint

Engineered lateral bellows assembly with tie rods | Catalog range DN100-DN300



Representative JDH catalog product



Exact JDH catalog structural drawing

Key Supply & Selection Data

Model	JDH
Product Type	Large tie-rod lateral corrugated expansion joint
Catalog Size Range	DN100-DN300
Pressure Levels	0.25 / 0.6 / 1.0 / 1.6 / 2.5 MPa
Movement Function	Lateral displacement in any plane; small angular movement may be accommodated
Catalog Product Lengths	1200 / 1500 / 2000 / 2500 / 3000 / 3500 mm; published combinations vary by DN and pressure
Maximum Outside Diameter	310-660 mm in the catalog range
Bellows & Tie-Rod Arrangement	Two bellows sections; catalog wave count 4+4; tie rods carry internal-pressure thrust
Temperature & Fatigue Reference	Operating temperature ≤ 420 C; catalog fatigue-life reference 1500 cycles
Project Configuration	Final DN, pressure, length, lateral movement / stiffness, materials and interfaces are confirmed by approved drawing

Fast Supply & Custom Production

- Common catalog sizes and project configurations can be prepared for fast supply.
- Custom production can start after drawing and specification confirmation.
- DN, pressure, product length, lateral movement, materials and connection details can be produced to approved project requirements.



Catalog Lateral Movement & Stiffness Data

Exact Mingchao JDH catalog values. Each movement cell is lateral displacement (mm) / stiffness (N/mm).

Blank cells are preserved exactly where the catalog does not publish a value for that DN / pressure / product-length combination.

DN100-DN300 Selection Table

Catalog source: printed page 30

DN mm	Wave No.	Pressure MPa	Lateral Displacement / Stiffness (mm / N/mm) by Product Length						Max. O.D. mm
			1200 Length (mm)	1500 Length (mm)	2000 Length (mm)	2500 Length (mm)	3000 Length (mm)	3500 Length (mm)	
100	4+4	0.25	177/2.2	243/1.2	354/0.6	465/0.3			310
		0.6	177/2.2	243/1.2	341/0.6	447/0.3			310
		1.0	163/2.2	243/1.2	325/0.6	427/0.3			310
		1.6	91/4	127/2	187/1	247/0.6			310
		2.5	94/8	132/5	194/2	256/1			310
125	4+4	0.25	181/2.8	251/1.5	369/0.7	487/0.4			360
		0.6	172/2.8	239/1.5	351/0.7	463/0.4			360
		1.0	161/2.8	224/1.5	330/0.7	435/0.4			360
		1.6	99/11	140/6	209/3	277/2			360
		2.5	94/11	113/6	197/3	262/2			360
150	4+4	0.25	199/6	278/3.2	410/1.6	542/1.0			410
		0.6	186/6	259/3.2	382/1.6	506/1.0			410
		1.0	122/10	170/6	251/3	332/2			410
		1.6	108/12	153/6	230/3	307/2			410
		2.5	82/22	117/12	176/5	324/3			410
200	4+4	0.25	155/9.4	220/4.9	327/2.25	435/1.4			480
		0.6	138/9.4	196/4.9	291/2.25	388/1.0			480
		1.0	101/20	143/11	213/5	283/3			480
		1.6	75/42	108/21	164/10	220/6			480
		2.5	59/69	86/35	130/16	176/9			480
250	4+4	0.25	164/10.2	239/5.1	367/2.4	494/1.5			580
		0.6	128/21	188/10	287/5	387/3			580
		1.0	109/35	159/18	243/8	328/5			580
		1.6	76/68	116/33	182/14	249/8			580
		2.5	64/122	98/58	154/25	210/14			580
300	4+4	0.25	144/17.6	174/8.4	287/3.7	379/2			660
		0.6	94/50	144/24	228/0	313/6			660
		1.0		127/39	202/17	277/10	352/6		660
		1.6		169/28	169/28	234/15	299/10		660
		2.5		91/113	148/47	215/26	262/16		660

Selection & Engineering Note

- Use the catalog table as the published selection reference. Final geometry, interfaces and project-specific construction are confirmed on the approved drawing.
- Before selection, confirm DN, pressure, medium, temperature, required lateral movement, available product length, pipeline layout, anchors / guides and installation orientation.
- Tie rods are part of the pressure-thrust restraint system. Do not change rod, spherical nut / washer or bellows geometry without engineering confirmation.

For detailed technical requirements, custom configurations or project questions, please contact us.