

DOUBLE HINGE FLANGED

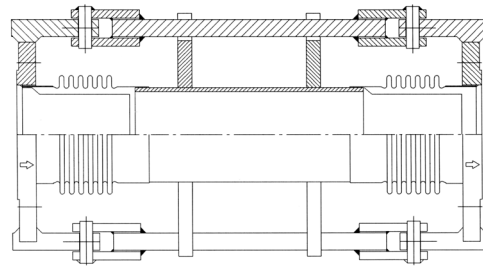
TYPE : DHF/16/002

### DESIGN CONDITIONS

Max. working pressure 16 Bar g.  
 Temperature Range -20 to 400°C  
 Test Pressure 24 Bar g.  
 Design Code EJMA

### CONSTRUCTION MATERIALS

Bellows 321 Stainless Steel  
 Flanges Carbon Steel  
 Inner Sleeve 321 Stainless Steel  
 Centre pipe Carbon Steel  
 Hinges Carbon Steel



### UNIT IDENTIFICATION:

Manufacturer, Size, Country of Origin, Date Stamp, Type No.

### SPECIFICATION

Thermosel type DHF/16/002 double hinged bellows expansion joint. High grade corrosion resistant stainless steel bellows with carbon steel flanges drilled to BS4504-PN16, carbon steel centre pipe and hinge assembly complete with stainless steel internal flow sleeves. Designed to EJMA (Expansion Joint Manufacturing Association).

### TECHNICAL DATA

NOMINAL SIZE	PIPE DIAMETER O.D	PART NUMBER	LATERAL MOVEMENT	OVERALL LENGTH	SPRING RATE
mm	mm	DHF/____/16/002/PN16	+ or - mm	mm	N/mm
40*	48.3	DHF/0040/16/002/PN16	75	1000	1.1
50*	60.3	DHF/0050/16/002/PN16	75	1000	1.1
65	76.1	DHF/0065/16/002/PN16	75	1000	2.1
80	88.9	DHF/0080/16/002/PN16	75	1000	3.3
100	114.3	DHF/0100/16/002/PN16	75	1000	6.6
125	139.7	DHF/0125/16/002/PN16	75	1000	13.3
150	168.3	DHF/0150/16/002/PN16	75	1000	23
200	219.1	DHF/0200/16/002/PN16	75	1000	39
250	273	DHF/0250/16/002/PN16	75	1000	74
300	323.9	DHF/0300/16/002/PN16	75	1000	122

\* Not fitted with internal flow sleeves.

Note - Spring Rate Tolerance +/- 25%

### CONSTRUCTION

This expansion joint is designed with a double hinge assembly to continuously restrain the pressure thrust of the expansion joint whilst permitting lateral movement in one plane.

### TYPICAL APPLICATIONS

Articulated bellows are suitable to take pipework movement due to thermal expansion and contraction and/or building settlement. Typical service includes LTHW, MTHW, HPHW and steam.

### GENERAL INFORMATION

This type of expansion joint is used to take large amounts of lateral deflection in one plane. Guides should be positioned to allow freedom of movement of the pipework and also prevent sag and pressure deflection. Cold draw can be applied on installation. Recommendations contained in our literature on correct installation of expansion joints should be followed. Particular care should be taken during installation to make sure that flow arrows are in the right direction.

### ALTERNATIVES

Where a DHF/16/002 is not suitable please contact *Pickup Bellows Ltd* to discuss the alternatives including larger sizes, higher pressures, greater movements or bespoke design.