FIGURE 40A FLEXIBLE CONNECTORS



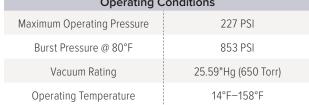
SINGLE SPHERE FLEXIBLE CONNECTOR

Flexible connectors are used to absorb thermal and seismic movement, absorb hydraulic shock, provide vibration and noise dampening, ease installation, and correct minor misalignment of piping and components.

Similar to the metal flexible connectors in application advantages, single sphere flexible connectors are suitable for pressure and vacuum services. The spherical shape is stronger than cylindrical elastomer connectors and disperses pressure evenly over a larger surface area. The streamline shape also reduces turbulence and sediment build-up and lessens deformation while under pressure. The elastomer allows greater movements in the axial, elongation, lateral, and angular directions and provides a wide service range due to its chemical resistance characteristics.

Warning: Control rods must be used to protect this part from excessive movement if piping is not properly anchored. See Fig. 40A IOM

Operating Conditions					
Maximum Operating Pressure	227 PSI				
Burst Pressure @ 80°F	853 PSI				
Vacuum Rating	25.59"Hg (650 Torr)				
Operating Temperature	14°F-158°F				



PART NUMBERS AND WEIGHT

Size	Part Number	Approximate Wt
2-1/2	FNW40AL	14.74
3	FNW40AM	16.50
4	FNW40AP	18.26
5	FNW40AS	23.98
6	FNW40AU	31.68
8	FNW40AX	42.24
10	FNW40A10	55.00





CONTROL RODS (sold separately)

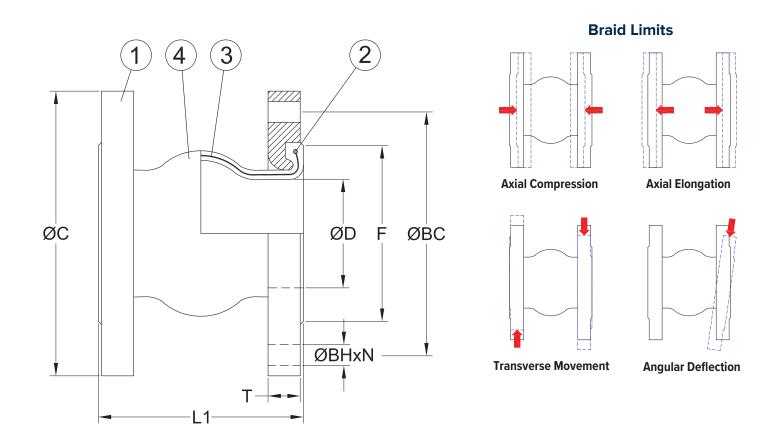
	SKU	Size	Plate Thickness	Rod Diameter	Sets Needed
F١	W40ACRL	2-1/2"	3/8"	5/8"	1 Set (2 rods)
FN	W40ACRM	3"	3/8"	5/8"	1 Set (2 rods)
FN	IW40ACRP	4"	3/8"	5/8"	1 Set (2 rods)
FN	W40ACRS	5"	3/8"	3/4"	1 Set (2 rods)
FN	IW40ACRU	6"	1/2"	3/4"	1 Set (2 rods)
FN	IW40ACRX	8"	1/2"	3/4"	2 Sets (4 rods)
FN	W40ACR10	10"	3/4"	7/8"	2 Sets (4 rods)

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FIGURE 40AFLEXIBLE CONNECTORS



SINGLE SPHERE FLEXIBLE CONNECTOR



DIMENSIONS (INCHES)

SIZE	ØС	ØD	F	L1	ØBC	ØBH	N	Т
2-1/2	7.0	2.68	4.17	6.0	5.50	0.75	4	0.71
3	7.5	2.99	4.57	6.0	6.00	0.75	4	0.71
4	9.0	4.06	5.91	6.0	7.50	0.75	8	0.71
5	10.0	5.04	7.09	6.0	8.50	0.87	8	0.79
6	11.0	5.98	8.23	6.0	9.50	0.87	8	0.87
8	13.5	7.64	10.24	6.0	11.75	0.87	8	0.87
10	16.0	9.84	12.60	8.0	14.25	1.00	12	0.94

STANDARD MATERIALS

Ref. No.	Description	Material
1	Flange	Carbon Steel
2	Reinforcement Wire	Carbon Steel
3	Reinforcement Fabric	Synthetic Fiber
4	Elastomer Sleeve	Inside and Outside: EPDM Middle: NBR

Size	Maximum Axial Compression	Maximum Axial Elongation	Maximum Transverse Movement	Maximum Angular Deflection
2-1/2	0.500"	0.375"	0.50"	15°
3	0.500"	0.375"	0.50"	15°
4	0.625"	0.375"	0.50"	15°
5	0.625"	0.375"	0.50"	15°
6	0.625"	0.375"	0.50"	15°
8	0.625"	0.375"	0.50"	15°
10	0.625"	0.500"	0.75"	15°

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