



## FUJIKURA COMPOSITES

# Fujikura Rolling Diaphragm

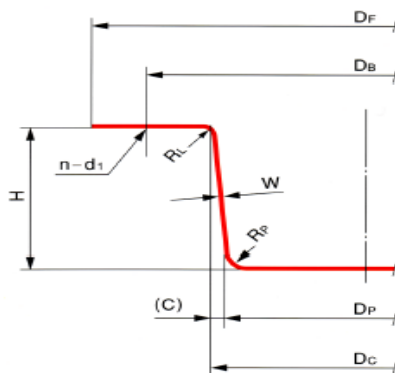
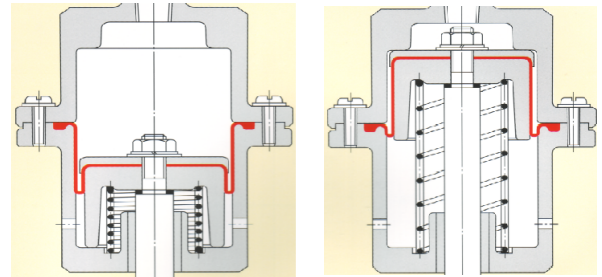
The Fujikura Rolling Diaphragm is designed with a long stroke and deep convolution. The diaphragm distributes pressure evenly throughout the movement, enabling precise, stable actuation.

### • Typical Applications

- Linear Actuators / Cylinders, Pumps, Seals, and Accumulators
- Designed to meet applications in the Automotive, Pumping, Irrigation, Fluid Control, and Semiconductor Markets

### • Primary Design Benefits

- Leak free
- No lubricant required
- Virtually no hysteresis-loss
- Highly sensitivity to pressure changes
- Smooth operation - No "jarring" action
- Low start up pressure - As low as 10kPa (1.5 psi)
- No resistance to start motion even after long period in rest position



### Standard Sizes

Cylinder Bore	Piston Diameter	Typical Heights				Effective Pressure Area AE cm <sup>2</sup>	SA=SB	Pressure Mpa Pw
		H						
		H / Dc						
Dc	Dp	0.2	0.3	0.6	1.0			
10	7				10	0.57	1.7	
12.5	9.5				12.5	0.95		
15	12				15	1.43		
16	13				16	1.65	1.7	
20	17			12	20	2.69		
25	20			15	25	3.98		
30	25			18	30	5.94	1.7	
31.5	26.5			20	31.5	6.61		
35	30			22	35	8.30		
40	35			24	40	11.04	1.7	
45	40			28	45	14.19		
50	45			30	50	17.72		
55	50	16	32	55	21.6	2.1		
60	55	18	35	60	26.0			
63	55	20	38	63	27.3			
70	62	20	42	70	34.2	2.1		
80	72	25	48	80	45.4			
90	82	28	55	90	58.1			
100	92	30	60	100	72.4	1.4		
110	98	32	65	110	84.9			
120	108	35	72	120	102.1			
125	113	38	75	125	111.2	1.4		
130	118	40	78	130	120.8			
140	128	42	85	140	141.0			
150	138	45	90	150	162.9	1.4		
160	148	32	95	160	186.3			
180	168	35	108	180	238.0			
200	188	40	120	200	296.0			



### • Material

#### Fabric

We have a comprehensive selection of fabric styles with specific physical characteristics. The fabric selection is matched to pressure and life cycle requirements of the application.

#### Rubber

We have an extensive database of proven rubber options designed to meet a range of physical properties. Our Team will help guide you to select the optimal rubber material.