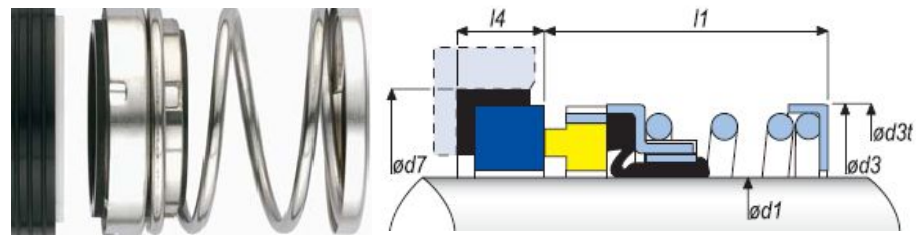


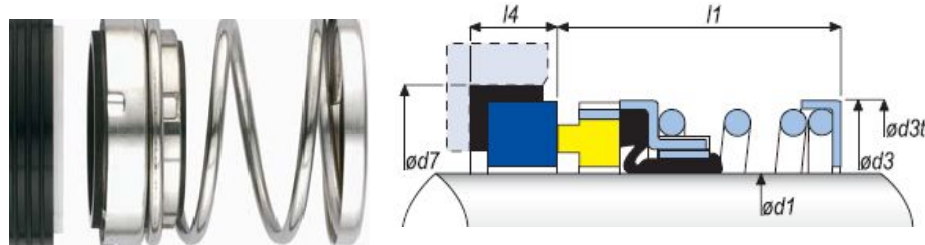
Type 12



d1		d3		d7		l1		l4	
Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
12.0	0.472	21.7	0.856	23.0	0.906	23.9	0.941	8.60	0.339
14.0	0.551	24.0	0.945	25.0	0.984	26.4	1.039	8.60	0.339
16.0	0.630	26.7	1.063	27.0	1.063	26.4	1.039	8.60	0.339
18.0	0.709	30.5	1.201	33.0	1.299	27.5	1.083	10.0	0.394
20.0	0.787	33.5	1.319	35.0	1.378	27.5	1.083	10.0	0.394
22.0	0.866	33.5	1.319	37.0	1.457	27.5	1.083	10.0	0.394
24.0	0.945	38.0	1.496	39.0	1.535	30.0	1.181	10.0	0.394
25.0	0.984	39.5	1.555	40.0	1.575	30.0	1.181	10.0	0.394
28.0	1.102	42.0	1.654	43.0	1.693	32.5	1.280	10.0	0.394
30.0	1.181	44.0	1.732	45.0	1.772	32.5	1.280	10.0	0.394
32.0	1.260	46.0	1.811	48.0	1.890	32.5	1.280	10.0	0.394
33.0	1.299	46.0	1.811	48.0	1.890	32.5	1.280	10.0	0.394
35.0	1.378	49.0	1.929	50.0	1.969	32.5	1.280	10.0	0.394
38.0	1.496	53.0	2.087	56.0	2.205	34.0	1.339	11.0	0.433
40.0	1.575	56.0	2.205	58.0	2.283	34.0	1.339	11.0	0.433
43.0	1.693	58.6	2.314	61.0	2.402	34.0	1.339	11.0	0.433
45.0	1.772	61.0	2.402	63.0	2.480	34.0	1.339	11.0	0.433
48.0	1.890	64.0	2.520	66.0	2.598	34.0	1.339	11.0	0.433
50.0	1.969	66.0	2.598	70.0	2.756	34.5	1.358	13.0	0.512
55.0	2.165	71.7	2.825	75.0	2.953	34.5	1.358	13.0	0.512
58.0	2.283	79.6	3.134	78.0	3.071	39.5	1.555	13.0	0.512
60.0	2.362	79.5	3.091	80.0	3.150	39.5	1.555	13.0	0.512
63.0	2.480	81.5	3.209	83.0	3.268	39.5	1.555	13.0	0.512
65.0	2.559	84.5	3.327	85.0	3.346	39.5	1.555	13.0	0.512
68.0	2.677	89.7	3.533	90.0	3.543	37.2	1.465	15.3	0.602
70.0	2.756	89.7	3.533	92.0	3.622	44.7	1.760	15.3	0.602
75.0	2.953	97.0	3.819	97.0	3.819	44.7	1.760	15.3	0.602

Rotary Face : **Carbon ,Silicon Carbide** Speed : **15 m/s**
 Stationary Face: **Ceramic ,Silicon Carbide** Pressure : **180psi**
 Elastomer : **NBR , Viton** Temp: **-40 to 200 C**

Type 12-Inch

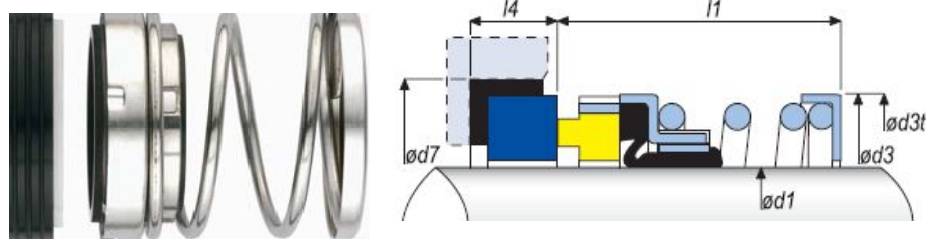


d1		d3		d3t (P02T)		d7		I1		I4	
Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
9.5	0.375	23.0	0.906	20.0	0.787	24.6	0.969	25.4	1.000	8.7	0.344
12.7	0.500	24.0	0.945	22.8	0.897	27.7	1.094	25.4	1.000	8.7	0.344
15.8	0.625	26.7	1.053	26.7	1.053	30.9	1.219	25.4	1.000	10.3	0.406
19.1	0.750	31.2	1.230	30.4	1.201	34.1	1.344	25.4	1.000	10.3	0.406
22.2	0.875	33.5	1.319	33.4	1.319	37.3	1.469	25.4	1.000	10.3	0.406
25.4	1.000	43.2	1.703	39.3	1.547	40.5	1.594	25.4	1.000	10.3	0.406
28.6	1.125	46.5	1.831	42.0	1.654	47.6	1.875	33.3	1.313	11.9	0.472
31.7	1.250	49.5	1.945	45.8	1.803	50.8	2.000	33.3	1.313	11.9	0.472
34.9	1.375	52.7	2.078	49.3	1.941	53.9	2.125	33.3	1.313	11.9	0.472
38.1	1.500	56.0	2.205	52.8	2.078	57.1	2.250	33.3	1.313	11.9	0.472
41.2	1.625	62.2	2.451	55.5	2.185	60.3	2.375	33.3	1.313	11.9	0.472
44.4	1.750	66.0	2.598	61.0	2.402	63.5	2.500	40.4	1.594	11.9	0.472
47.6	1.875	66.0	2.598	64.0	2.520	66.7	2.625	40.4	1.594	11.9	0.472
50.8	2.000	73.0	2.874	66.0	2.598	69.8	2.750	40.4	1.594	13.5	0.531
53.9	2.125	73.5	2.894	71.5	2.814	73.0	2.875	41.0	1.614	13.5	0.531
57.1	2.250	78.5	3.091	79.6	3.133	76.2	3.000	41.0	1.614	13.5	0.531
60.3	2.375	82.0	3.228	79.6	3.133	79.4	3.125	41.0	1.614	13.5	0.531
63.5	2.500	85.0	3.346	81.5	3.209	82.5	3.250	41.0	1.614	13.5	0.531
66.6	2.625	88.5	3.484	84.6	3.331	92.1	3.625	49.0	1.929	15.9	0.625
69.8	2.750	92.7	3.652	90.0	3.543	95.2	3.750	49.0	1.929	15.9	0.625
73.0	2.875	95.0	3.740	92.0	3.622	98.4	3.875	49.0	1.929	15.9	0.625
76.2	3.000	102.0	4.016	96.8	3.811	101.6	4.000	49.0	1.929	15.9	0.625

Rotary Face : **Carbon ,Silicon Carbide**
 Stationary Face: **Ceramic ,Silicon Carbide**
 Elastomer : **NBR , Viton**

Speed : **15 m/s**
 Pressure : **180psi**
 Temp: **-40 to 200 C**

Type 12-m



d1		d3		d3t (P02T)		d7		l1		l4	
Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
10.0	0.394	23.0	0.906	20.5	0.807	24.6	0.969	25.4	1.000	8.7	0.344
12.0	0.472	24.0	0.945	22.8	0.897	27.7	1.094	25.4	1.000	8.7	0.344
13.0	0.512	24.0	0.945	24.0	0.945	27.7	1.094	25.4	1.000	8.7	0.344
14.0	0.551	26.7	1.053	24.2	0.952	30.9	1.219	25.4	1.000	10.3	0.406
15.0	0.591	26.7	1.053	26.7	1.053	30.9	1.219	25.4	1.000	10.3	0.406
16.0	0.630	26.7	1.053	26.7	1.053	30.9	1.219	25.4	1.000	10.3	0.406
18.0	0.709	31.2	1.230	30.4	1.201	34.1	1.344	25.4	1.000	10.3	0.406
19.0	0.748	31.2	1.230	30.4	1.201	34.1	1.344	25.4	1.000	10.3	0.406
20.0	0.787	33.5	1.319	33.4	1.319	35.7	1.406	25.4	1.000	10.3	0.406
22.0	0.866	33.5	1.319	33.4	1.319	37.3	1.469	25.4	1.000	10.3	0.406
24.0	0.945	39.2	1.545	38.0	1.496	40.5	1.594	25.4	1.000	10.3	0.406
25.0	0.984	39.3	1.547	39.3	1.547	40.5	1.594	25.4	1.000	10.3	0.406
28.0	1.102	46.5	1.831	42.0	1.654	47.6	1.875	33.3	1.313	11.9	0.472
30.0	1.181	49.5	1.949	43.9	1.728	50.8	2.000	33.3	1.313	11.9	0.472
32.0	1.260	49.5	1.949	45.8	1.803	50.8	2.000	33.3	1.313	11.9	0.472
33.0	1.299	52.7	2.077	45.8	1.803	53.9	2.125	33.3	1.313	11.9	0.472
35.0	1.378	52.7	2.077	49.3	1.941	53.9	2.125	33.3	1.313	11.9	0.472
38.0	1.496	56.0	2.205	52.8	2.087	57.1	2.250	33.3	1.313	11.9	0.472
40.0	1.575	62.2	2.451	55.8	2.196	60.3	2.375	33.3	1.313	11.9	0.472
42.0	1.654	66.0	2.598	58.8	2.314	63.5	2.500	40.4	1.594	11.9	0.472
43.0	1.693	66.0	2.598	58.8	2.314	63.5	2.500	40.4	1.594	11.9	0.472
44.0	1.732	66.0	2.598	58.8	2.314	63.5	2.500	40.4	1.594	11.9	0.472
45.0	1.772	66.0	2.598	61.0	2.402	63.5	2.500	40.4	1.594	11.9	0.472
48.0	1.890	66.7	2.628	64.0	2.520	66.7	2.625	40.4	1.594	11.9	0.472
50.0	1.969	71.7	2.825	66.0	2.598	69.8	2.750	40.4	1.594	13.5	0.531
53.0	2.087	73.5	2.894	71.5	2.815	73.0	2.875	41.0	1.614	13.5	0.531
55.0	2.165	78.5	3.091	71.5	2.815	76.2	3.000	41.0	1.614	13.5	0.531
58.0	2.283	82.0	3.228	79.6	3.134	79.4	3.125	41.0	1.614	13.5	0.531
60.0	2.362	82.0	3.228	79.6	3.134	79.4	3.125	41.0	1.614	13.5	0.531
63.0	2.480	85.0	3.346	81.5	3.209	82.5	3.250	41.0	1.614	13.5	0.531
65.0	2.559	88.5	3.484	84.6	3.331	92.1	3.625	49.0	1.929	15.5	0.625
70.0	2.756	92.7	3.652	90.0	3.543	95.2	3.750	49.0	1.929	15.9	0.625
73.0	2.874	95.0	3.740	92.0	3.622	98.4	3.875	49.0	1.929	15.9	0.625
75.0	2.953	102.0	4.016	96.8	3.811	101.6	4.000	49.0	1.929	15.9	0.625

Rotary Face : **Carbon ,Silicon Carbide** Speed : **15 m/s**
 Stationary Face: **Ceramic ,Silicon Carbide** Pressure : **180psi**
 Elastomer : **NBR , Viton** Temp: **-40 to 200 C**