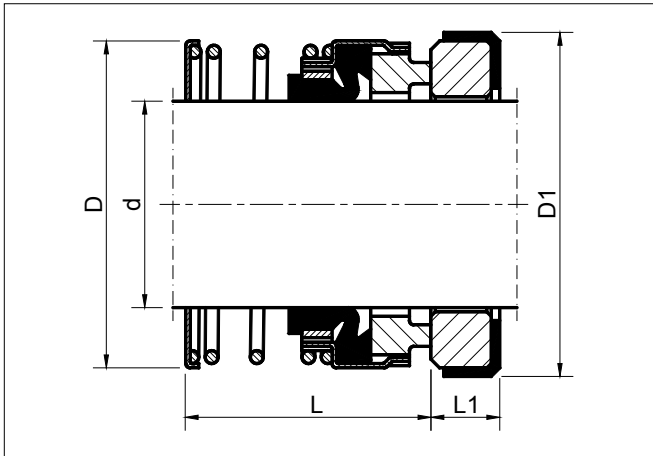


## YT 820/821/824

EQUIVALENTS OF CRANE TYPE 21/521



### Technical features

- Single seal
- Unbalanced
- Single spring
- Bi-directional
- Elastomer diaphragm
- Equivalent to John Crane type 21/521, Pac-seal type 21, US Seal type C

### Operating limits

- $d_1 = 3/8 - 3''$  (YT820/821)  
12 - 75 mm (YT824)
- $p_1 = 1.6$  MPa
- $t = -40 - 205$  °C
- $v_g = 15$  m/s

### Materials

- Seal faces: carbon graphite (resin-impreg.), silicon carbide, tungsten carbide
- Stationary seats: alumina ceramic, Ni-resist, silicon carbide, tungsten carbide
- Bellows: Neoprene, NBR, FPM, EPDM
- Springs, other matel components: AISI 304, 316, 316Ti
- Secondary seals: Neoprene, NBR, FPM, EPDM

YT821 (US standard), dimensions in inches					YT820 (UK standard)		
d	D	D1	L	L1	D1	L	L1
0.375	0.812	0.875	0.812	0.284	0.968	1.000	0.344
0.500	0.937	1.000	0.812	0.312	1.094	1.000	0.344
0.625	1.062	1.250	0.875	0.406	1.218	1.000	0.406
0.750	1.187	1.375	0.875	0.406	1.344	1.000	0.406
0.875	1.312	1.500	0.937	0.406	1.468	1.000	0.406
1.000	1.687	1.625	1.000	0.437	1.594	1.000	0.406
1.125	1.812	1.750	1.062	0.437	1.875	1.299	0.469
1.250	1.937	1.875	1.062	0.437	2.000	1.299	0.469
1.375	2.062	2.000	1.125	0.437	2.125	1.299	0.469
1.500	2.187	2.125	1.125	0.437	2.250	1.299	0.469
1.625	2.500	2.375	1.375	0.500	2.375	1.299	0.469
1.750	2.625	2.500	1.375	0.500	2.500	1.615	0.469
1.875	2.750	2.625	1.500	0.500	2.625	1.615	0.469
2.000	2.875	2.750	1.500	0.500	2.750	1.615	0.531
2.125	3.000	3.000	1.687	0.562	2.875	1.615	0.531
2.250	3.125	3.125	1.687	0.562	3.000	1.615	0.531
2.375	3.250	3.250	1.812	0.562	3.125	1.615	0.531
2.500	3.343	3.375	1.812	0.562	3.250	1.615	0.531
2.625	3.500	3.375	1.937	0.625	3.625	1.937	0.625
2.750	3.750	3.500	1.937	0.625	3.750	1.937	0.625
2.875	3.875	3.750	2.062	0.625	3.875	2.062	0.625
3.000	4.000	3.875	2.062	0.625	4.000	2.062	0.625

YT824 (to DIN 24960), dimensions in mm

d	D	D1	L	L1
12	21.7	23.0	23.9	8.6
14	23.9	25.0	26.4	8.6
16	26.7	27.0	26.4	8.6
18	30.4	33.0	27.5	10.0
20	33.4	35.0	27.5	10.0
22	33.4	37.0	27.5	10.0
24	38.0	39.0	30.0	10.0
25	39.3	40.0	30.0	10.0
28	42.0	43.0	32.5	10.0
30	44.0	45.0	32.5	10.0
32	45.8	48.0	32.5	10.0
33	45.8	48.0	32.5	10.0
35	49.0	50.0	34.0	11.0
38	52.8	56.0	34.0	11.0
40	55.8	58.0	34.0	11.0

d	D	D1	L	L1
43	58.8	61.0	34.0	11.0
45	61.0	63.0	34.0	11.0
48	64.0	66.0	34.0	11.0
50	66.0	70.0	34.5	13.0
55	71.7	75.0	34.5	13.0
58	78.4	78.0	39.5	13.0
60	78.4	80.0	39.5	13.0
63	81.5	83.0	39.5	13.0
65	84.3	85.0	39.5	13.0
68	89.7	90.0	37.2	15.3
70	89.7	92.0	37.2	15.3
75	96.8	97.0	44.7	15.3
80	104.0	105.0	44.3	15.7
85	109.0	110.0	44.3	15.7

Conform to DIN 24960  $L_{IK}$  length standard.