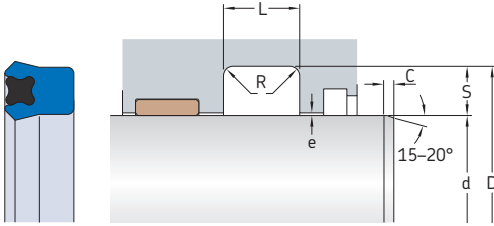


3.4 PTB profile rod seals, inch sizes d 0.125 – 0.688 in.



Maximum extrusion gap e

Radial depth S	e _{max} at 60 °C (140 °F) for pressures		
	2300 psi	3600 psi	5800 psi
in.	in.		
0.125	0.008	0.004	–
0.156 to 0.187	0.014	0.008	–
0.218 to 0.25	0.018	0.010	0.004
0.281 to 0.437	0.020	0.012	0.006
0.5 to 0.562	0.024	0.012	0.008
0.625 to 0.75	0.024	0.012	0.008

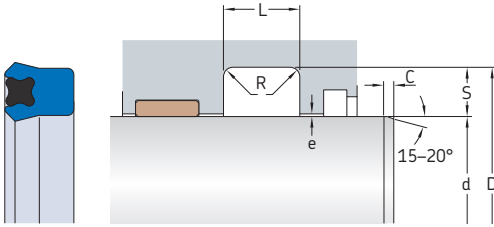
For additional information → page 34

Dimensions

Designation

d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	Designation
in.								–
0.125	–0.001	0.375	0.002	0.275	0.125	0.015	0.25	PTB125-125-250-J1S
0.187	–0.001 –0.001	0.437	0.002	0.206 0.275	0.125 0.125	0.015 0.015	0.25 0.25	PTB125-187-187-J1S PTB125-187-250-J1S
0.25	–0.001	0.5	0.002	0.275	0.125	0.015	0.25	PTB125-250-250-J1S
0.282	–0.001	0.532	0.002	0.275	0.125	0.015	0.25	PTB125-282-250-J1S
0.312	–0.001 –0.001	0.562	0.002	0.275 0.343	0.125 0.187	0.015 0.015	0.25 0.25	PTB125-312-250-J1S PTB187-312-312-J1S
0.375	–0.001 –0.001	0.625	0.002	0.275 0.343	0.125 0.187	0.015 0.015	0.25 0.25	PTB125-375-250-J1S PTB187-375-312-J1S
0.437	–0.001 –0.001 –0.002	0.687	0.002	0.275 0.413 0.413	0.125 0.125 0.25	0.015 0.015 0.02	0.25 0.25 0.312	PTB125-437-250-J1S PTB125-437-375-J1S PTB250-437-375-J1S
0.5	–0.001 –0.001 –0.001 –0.002	0.75	0.002	0.193 0.275 0.343 0.413	0.125 0.125 0.187 0.25	0.015 0.015 0.015 0.02	0.25 0.25 0.25 0.312	PTB125-500-175-J1S PTB125-500-250-J1S PTB187-500-312-J1S PTB250-500-375-J1S
0.54	–0.001	0.915	0.002	0.343	0.187	0.015	0.25	PTB187-540-312-J1S
0.562	–0.001 –0.001	0.812	0.002	0.275 0.343	0.125 0.187	0.015 0.015	0.25 0.25	PTB125-562-250-J1S PTB187-562-312-J1S
0.625	–0.001 –0.001 –0.001	0.875	0.002	0.196 0.275 0.343	0.125 0.125 0.187	0.015 0.015 0.015	0.25 0.25 0.25	PTB125-625-178-J1S PTB125-625-250-J1S PTB187-625-312-J1S
0.687	–0.001 –0.001 –0.002	0.937	0.002	0.275 0.343 0.413	0.125 0.187 0.25	0.015 0.015 0.02	0.25 0.25 0.312	PTB125-687-250-J1S PTB187-687-312-J1S PTB250-687-375-J1S
0.688	–0.001	0.938	0.002	0.196	0.125	0.015	0.25	PTB125-688-178-J1S

3.4 PTB profile rod seals, inch sizes d 0.75 – 1.625 in.



Maximum extrusion gap e

Radial depth S	e _{max} at 60 °C (140 °F) for pressures		
	2300 psi	3 600 psi	5 800 psi
in.	in.		
0.125	0.008	0.004	–
0.156 to 0.187	0.014	0.008	–
0.218 to 0.25	0.018	0.01	0.004
0.281 to 0.437	0.02	0.012	0.006
0.5 to 0.562	0.024	0.012	0.008
0.625 to 0.75	0.024	0.012	0.008

For additional information → page 34

Dimensions

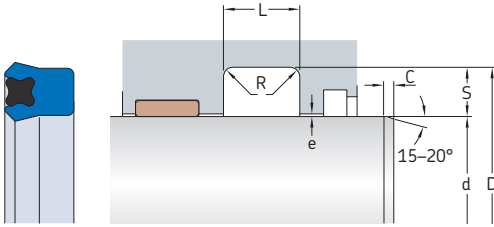
Designation

d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	Designation	
in.								–	
0.75	-0.001	1	0.002	0.196	0.125	0.015	0.25	PTB125-750-178-J15	
	-0.001	1	0.002	0.206	0.125	0.015	0.25	PTB125-750-187-J15	
	-0.001	1	0.002	0.275	0.125	0.015	0.25	PTB125-750-250-J15	
	-0.001	1.125	0.002	0.343	0.187	0.015	0.25	PTB187-750-312-J15	
	-0.002	1.25	0.003	0.413	0.25	0.02	0.312	PTB250-750-375-J15	
-0.002	1.375	0.004	0.55	0.312	0.02	0.312	PTB312-750-500-J15		
0.812	-0.001	1.062	0.002	0.275	0.125	0.015	0.25	PTB125-812-250-J15	
	-0.001	1.187	0.002	0.343	0.187	0.015	0.25	PTB187-812-312-J15	
	-0.002	1.312	0.003	0.413	0.25	0.02	0.312	PTB250-812-375-J15	
0.875	-0.001	1.125	0.002	0.275	0.125	0.015	0.25	PTB125-875-250-J15	
	-0.001	1.25	0.002	0.343	0.187	0.015	0.25	PTB187-875-312-J15	
	-0.002	1.375	0.003	0.413	0.25	0.02	0.312	PTB250-875-375-J15	
0.937	-0.001	1.187	0.002	0.275	0.125	0.015	0.25	PTB125-937-250-J15	
	-0.001	1.312	0.002	0.343	0.187	0.015	0.25	PTB187-937-312-J15	
	-0.002	1.562	0.004	0.413	0.312	0.02	0.312	PTB312-937-375-J15	
1	-0.001	1.25	0.002	0.206	0.125	0.015	0.25	PTB125-1000-187-J15	
	-0.001	1.25	0.002	0.275	0.125	0.015	0.25	PTB125-1000-250-J15	
	-0.001	1.312	0.002	0.24	0.156	0.015	0.25	PTB156-1000-218-J15	
	-0.001	1.312	0.002	0.257	0.156	0.015	0.25	PTB156-1000-234-J15	
	-0.001	1.375	0.002	0.275	0.187	0.015	0.25	PTB187-1000-250-J15	
	-0.001	1.375	0.002	0.293	0.187	0.015	0.25	PTB187-1000-266-J15	
	-0.001	1.375	0.002	0.343	0.187	0.015	0.25	PTB187-1000-312-J15	
	-0.001	1.375	0.002	0.413	0.187	0.015	0.25	PTB187-1000-375-J15	
	-0.002	1.5	0.003	0.413	0.25	0.02	0.312	PTB250-1000-375-J15	
	-0.002	1.625	0.004	0.413	0.312	0.02	0.312	PTB312-1000-375-J15	
	-0.002	1.625	0.004	0.55	0.312	0.02	0.312	PTB312-1000-500-J15	
	1.062	-0.001	1.312	0.002	0.275	0.125	0.015	0.25	PTB125-1062-250-J15
		-0.001	1.437	0.002	0.343	0.187	0.015	0.25	PTB187-1062-312-J15
1.125	-0.001	1.375	0.002	0.275	0.125	0.015	0.25	PTB125-1125-250-J15	
	-0.001	1.5	0.002	0.275	0.187	0.015	0.25	PTB187-1125-250-J15	
	-0.001	1.5	0.002	0.343	0.187	0.015	0.25	PTB187-1125-312-J15	
	-0.001	1.5	0.002	0.413	0.187	0.015	0.25	PTB187-1125-375-J15	
	-0.002	1.625	0.003	0.413	0.25	0.02	0.312	PTB250-1125-375-J15	
	-0.002	1.75	0.004	0.413	0.312	0.02	0.312	PTB312-1125-375-J15	

Dimensions				Designation				
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								-
1.187	-0.001	1.437	0.002	0.196	0.125	0.015	0.25	PTB125-1187-178-J15
	-0.001	1.437	0.002	0.206	0.125	0.015	0.25	PTB125-1187-187-J15
	-0.001	1.437	0.002	0.275	0.125	0.015	0.25	PTB125-1187-250-J15
	-0.001	1.562	0.002	0.275	0.187	0.015	0.25	PTB187-1187-250-J15
	-0.001	1.562	0.002	0.343	0.187	0.015	0.25	PTB187-1187-312-J15
1.25	-0.001	1.5	0.002	0.206	0.125	0.015	0.25	PTB125-1250-187-J15
	-0.001	1.5	0.002	0.275	0.125	0.015	0.25	PTB125-1250-250-J15
	-0.001	1.625	0.002	0.275	0.187	0.015	0.25	PTB187-1250-250-J15
	-0.001	1.625	0.002	0.293	0.187	0.015	0.25	PTB187-1250-266-J15
	-0.001	1.625	0.002	0.343	0.187	0.015	0.25	PTB187-1250-312-J15
	-0.001	1.625	0.002	0.413	0.187	0.015	0.25	PTB187-1250-375-J15
	-0.002	1.75	0.003	0.413	0.25	0.02	0.312	PTB250-1250-375-J15
	-0.002	1.875	0.004	0.413	0.312	0.02	0.312	PTB312-1250-375-J15
	-0.002	1.875	0.004	0.55	0.312	0.02	0.312	PTB312-1250-500-J15
	-0.003	2.25	0.007	0.825	0.5	0.03	0.625	PTB500-1250-750-J15
	1.312	-0.001	1.562	0.002	0.206	0.125	0.015	0.25
-0.001		1.687	0.002	0.343	0.187	0.015	0.25	PTB187-1312-312-J15
-0.002		1.812	0.003	0.413	0.25	0.02	0.312	PTB250-1312-375-J15
1.375	-0.001	1.625	0.002	0.275	0.125	0.015	0.25	PTB125-1375-250-J15
	-0.001	1.687	0.002	0.24	0.156	0.015	0.25	PTB156-1375-218-J15
	-0.001	1.75	0.002	0.275	0.187	0.015	0.25	PTB187-1375-250-J15
	-0.001	1.75	0.002	0.293	0.187	0.015	0.25	PTB187-1375-266-J15
	-0.001	1.75	0.002	0.343	0.187	0.015	0.25	PTB187-1375-312-J15
	-0.001	1.75	0.002	0.413	0.187	0.015	0.25	PTB187-1375-375-J15
	-0.002	1.875	0.003	0.413	0.25	0.02	0.312	PTB250-1375-375-J15
	-0.002	2	0.004	0.413	0.312	0.02	0.312	PTB312-1375-375-J15
	-0.002	2	0.004	0.55	0.312	0.02	0.312	PTB312-1375-500-J15
	1.437	-0.001	1.687	0.002	0.275	0.125	0.015	0.25
-0.001		1.812	0.002	0.343	0.187	0.015	0.25	PTB187-1437-312-J15
-0.002		1.937	0.003	0.413	0.25	0.02	0.312	PTB250-1437-375-J15
1.5	-0.001	1.75	0.002	0.206	0.125	0.015	0.25	PTB125-1500-187-J15
	-0.001	1.75	0.002	0.275	0.125	0.015	0.25	PTB125-1500-250-J15
	-0.001	1.812	0.002	0.343	0.156	0.015	0.25	PTB156-1500-312-J15
	-0.001	1.875	0.002	0.275	0.187	0.015	0.25	PTB187-1500-250-J15
	-0.001	1.875	0.002	0.286	0.187	0.015	0.25	PTB187-1500-260-J15
	-0.001	1.875	0.002	0.293	0.187	0.015	0.25	PTB187-1500-266-J15
	-0.001	1.875	0.002	0.343	0.187	0.015	0.25	PTB187-1500-312-J15
	-0.001	1.875	0.002	0.413	0.187	0.015	0.25	PTB187-1500-375-J15
	-0.002	2	0.003	0.343	0.25	0.02	0.312	PTB250-1500-312-J15
	-0.002	2	0.003	0.413	0.25	0.02	0.312	PTB250-1500-375-J15
	-0.002	2	0.003	0.55	0.25	0.02	0.312	PTB250-1500-500-J15
	-0.002	2.125	0.004	0.481	0.312	0.02	0.312	PTB312-1500-437-J15
	-0.002	2.125	0.004	0.55	0.312	0.02	0.312	PTB312-1500-500-J15
	-0.002	2.25	0.005	0.55	0.375	0.03	0.5	PTB375-1500-500-J15
	-0.002	2.25	0.005	0.688	0.375	0.03	0.5	PTB375-1500-625-J15
1.562	-0.001	1.937	0.002	0.413	0.187	0.015	0.25	PTB187-1562-375-J15
	-0.002	2	0.003	0.343	0.218	0.02	0.312	PTB218-1562-312-J15
	-0.002	2.062	0.003	0.343	0.25	0.02	0.312	PTB250-1562-312-J15
1.625	-0.001	2	0.002	0.275	0.187	0.015	0.25	PTB187-1625-250-J15
	-0.001	2	0.002	0.293	0.187	0.015	0.25	PTB187-1625-266-J15
	-0.001	2	0.002	0.343	0.187	0.015	0.25	PTB187-1625-312-J15
	-0.001	2	0.002	0.413	0.187	0.015	0.25	PTB187-1625-375-J15

3.4

3.4 PTB profile rod seals, inch sizes d 1.625 – 2.5 in.



Maximum extrusion gap e

Radial depth S	e _{max} at 60 °C (140 °F) for pressures		
	2 300 psi	3 600 psi	5 800 psi
in.	in.		
0.125	0.008	0.004	–
0.156 to 0.187	0.014	0.008	–
0.218 to 0.25	0.018	0.01	0.004
0.281 to 0.437	0.02	0.012	0.006
0.5 to 0.562	0.024	0.012	0.008
0.625 to 0.75	0.024	0.012	0.008

For additional information → page 34

Dimensions

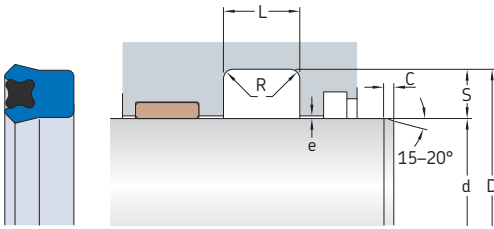
Designation

d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	Designation
in.								–
1.625	–0.002	2.125	0.003	0.413	0.25	0.02	0.312	PTB250-1625-375-J15
cont.	–0.002	2.25	0.004	0.413	0.312	0.02	0.312	PTB312-1625-375-J15
	–0.002	2.25	0.004	0.55	0.312	0.02	0.312	PTB312-1625-500-J15
	–0.002	2.375	0.005	0.688	0.375	0.03	0.5	PTB375-1625-625-J15
1.687	–0.002	2.312	0.004	0.55	0.312	0.02	0.312	PTB312-1687-500-J15
1.75	–0.001	2	0.002	0.275	0.125	0.015	0.25	PTB125-1750-250-J15
	–0.001	2.125	0.002	0.275	0.187	0.015	0.25	PTB187-1750-250-J15
	–0.001	2.125	0.002	0.293	0.187	0.015	0.25	PTB187-1750-266-J15
	–0.001	2.125	0.002	0.343	0.187	0.015	0.25	PTB187-1750-312-J15
	–0.001	2.125	0.002	0.413	0.187	0.015	0.25	PTB187-1750-375-J15
	–0.002	2.25	0.003	0.343	0.25	0.02	0.312	PTB250-1750-312-J15
	–0.002	2.25	0.003	0.413	0.25	0.02	0.312	PTB250-1750-375-J15
	–0.002	2.375	0.004	0.413	0.312	0.02	0.312	PTB312-1750-375-J15
	–0.002	2.375	0.004	0.55	0.312	0.02	0.312	PTB312-1750-500-J15
	–0.002	2.5	0.005	0.688	0.375	0.03	0.5	PTB375-1750-625-J15
	–0.003	2.75	0.007	0.825	0.5	0.03	0.625	PTB500-1750-750-J15
1.875	–0.001	2.25	0.002	0.293	0.187	0.015	0.25	PTB187-1875-266-J15
	–0.001	2.25	0.002	0.343	0.187	0.015	0.25	PTB187-1875-312-J15
	–0.001	2.25	0.002	0.413	0.187	0.015	0.25	PTB187-1875-375-J15
	–0.002	2.375	0.003	0.413	0.25	0.02	0.312	PTB250-1875-375-J15
	–0.002	2.5	0.004	0.413	0.312	0.02	0.312	PTB312-1875-375-J15
	–0.002	2.5	0.004	0.55	0.312	0.02	0.312	PTB312-1875-500-J15
	–0.003	2.875	0.007	0.688	0.5	0.03	0.625	PTB500-1875-625-J15
2	–0.001	2.25	0.002	0.275	0.125	0.015	0.25	PTB125-2000-250-J15
	–0.001	2.375	0.002	0.253	0.187	0.015	0.25	PTB187-2000-230-J15
	–0.001	2.375	0.002	0.275	0.187	0.015	0.25	PTB187-2000-250-J15
	–0.001	2.375	0.002	0.343	0.187	0.015	0.25	PTB187-2000-312-J15
	–0.001	2.375	0.002	0.391	0.187	0.015	0.25	PTB187-2000-355-J15
	–0.001	2.375	0.002	0.413	0.187	0.015	0.25	PTB187-2000-375-J15
	–0.002	2.5	0.003	0.343	0.25	0.02	0.312	PTB250-2000-312-J15
	–0.002	2.5	0.003	0.413	0.25	0.02	0.312	PTB250-2000-375-J15
	–0.002	2.5	0.003	0.55	0.25	0.02	0.312	PTB250-2000-500-J15

Dimensions							Designation	
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								-
2 cont.	-0.002	2.625	0.004	0.413	0.312	0.02	0.312	PTB312-2000-375-J1S
	-0.002	2.625	0.004	0.481	0.312	0.02	0.312	PTB312-2000-437-J1S
	-0.002	2.625	0.004	0.55	0.312	0.02	0.312	PTB312-2000-500-J1S
	-0.002	2.75	0.005	0.481	0.375	0.03	0.5	PTB375-2000-437-J1S
	-0.002	2.75	0.005	0.55	0.375	0.03	0.5	PTB375-2000-500-J1S
	-0.002	2.75	0.005	0.688	0.375	0.03	0.5	PTB375-2000-625-J1S
	-0.003	3	0.007	0.825	0.5	0.03	0.625	PTB500-2000-750-J1S
2.125	-0.001	2.5	0.002	0.275	0.187	0.015	0.25	PTB187-2125-250-J1S
	-0.001	2.5	0.002	0.293	0.187	0.015	0.25	PTB187-2125-266-J1S
	-0.001	2.5	0.002	0.343	0.187	0.015	0.25	PTB187-2125-312-J1S
	-0.001	2.5	0.002	0.413	0.187	0.015	0.25	PTB187-2125-375-J1S
	-0.002	2.625	0.003	0.413	0.25	0.02	0.312	PTB250-2125-375-J1S
	-0.002	2.75	0.004	0.413	0.312	0.02	0.312	PTB312-2125-375-J1S
	-0.002	2.75	0.004	0.55	0.312	0.02	0.312	PTB312-2125-500-J1S
	-0.002	2.875	0.005	0.688	0.375	0.03	0.5	PTB375-2125-625-J1S
2.187	-0.001	2.562	0.002	0.413	0.187	0.015	0.25	PTB187-2187-375-J1S
	-0.002	2.687	0.003	0.413	0.25	0.02	0.312	PTB250-2187-375-J1S
	-0.002	2.937	0.005	0.688	0.375	0.03	0.5	PTB375-2187-625-J1S
2.25	-0.001	2.625	0.002	0.343	0.187	0.015	0.25	PTB187-2250-312-J1S
	-0.001	2.625	0.002	0.413	0.187	0.015	0.25	PTB187-2250-375-J1S
	-0.002	2.75	0.003	0.413	0.25	0.02	0.312	PTB250-2250-375-J1S
	-0.002	2.875	0.004	0.413	0.312	0.02	0.312	PTB312-2250-375-J1S
	-0.002	2.875	0.004	0.55	0.312	0.02	0.312	PTB312-2250-500-J1S
	-0.002	3	0.005	0.55	0.375	0.03	0.5	PTB375-2250-500-J1S
	-0.002	3	0.005	0.688	0.375	0.03	0.5	PTB375-2250-625-J1S
2.375	-0.001	2.625	0.002	0.206	0.125	0.015	0.25	PTB125-2375-187-J1S
	-0.001	2.75	0.002	0.275	0.187	0.015	0.25	PTB187-2375-250-J1S
	-0.001	2.75	0.002	0.293	0.187	0.015	0.25	PTB187-2375-266-J1S
	-0.001	2.75	0.002	0.413	0.187	0.015	0.25	PTB187-2375-375-J1S
	-0.001	2.75	0.002	0.55	0.187	0.015	0.25	PTB187-2375-500-J1S
	-0.002	2.875	0.003	0.413	0.25	0.02	0.312	PTB250-2375-375-J1S
	-0.002	3	0.004	0.55	0.312	0.02	0.312	PTB312-2375-500-J1S
	-0.002	3.125	0.005	0.55	0.375	0.03	0.5	PTB375-2375-500-J1S
	-0.002	3.125	0.005	0.688	0.375	0.03	0.5	PTB375-2375-625-J1S
2.437	-0.002	3	0.003	0.413	0.281	0.02	0.312	PTB281-2437-375-J1S
2.5	-0.001	2.75	0.002	0.275	0.125	0.015	0.25	PTB125-2500-250-J1S
	-0.001	2.875	0.002	0.275	0.187	0.015	0.25	PTB187-2500-250-J1S
	-0.001	2.875	0.002	0.293	0.187	0.015	0.25	PTB187-2500-266-J1S
	-0.001	2.875	0.002	0.343	0.187	0.015	0.25	PTB187-2500-312-J1S
	-0.001	2.875	0.002	0.413	0.187	0.015	0.25	PTB187-2500-375-J1S
	-0.002	2.937	0.003	0.309	0.218	0.02	0.312	PTB218-2500-281-J1S
	-0.002	3	0.003	0.343	0.25	0.02	0.312	PTB250-2500-312-J1S
	-0.002	3	0.003	0.413	0.25	0.02	0.312	PTB250-2500-375-J1S
	-0.002	3	0.003	0.55	0.25	0.02	0.312	PTB250-2500-500-J1S
	-0.002	3.125	0.004	0.413	0.312	0.02	0.312	PTB312-2500-375-J1S
	-0.002	3.125	0.004	0.55	0.312	0.02	0.312	PTB312-2500-500-J1S
	-0.002	3.25	0.005	0.55	0.375	0.03	0.5	PTB375-2500-500-J1S
	-0.002	3.25	0.005	0.688	0.375	0.03	0.5	PTB375-2500-625-J1S
	-0.003	3.5	0.007	0.825	0.5	0.03	0.5	PTB500-2500-750-J1S

3.4

3.4 PTB profile rod seals, inch sizes d 2.625 – 3.75 in.



Maximum extrusion gap e

Radial depth S	e _{max} at 60 °C (140 °F) for pressures		
	2300 psi	3 600 psi	5 800 psi
in.	in.		
0.125	0.008	0.004	–
0.156 to 0.187	0.014	0.008	–
0.218 to 0.25	0.018	0.01	0.004
0.281 to 0.437	0.02	0.012	0.006
0.5 to 0.562	0.024	0.012	0.008
0.625 to 0.75	0.024	0.012	0.008

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Dimensions

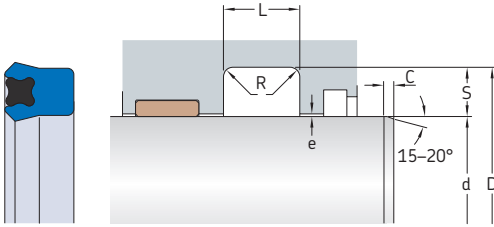
Designation

d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	Designation
in.								–
2.625	-0.001	3	0.002	0.275	0.187	0.015	0.25	PTB187-2625-250-J15
	-0.001	3	0.002	0.293	0.187	0.015	0.25	PTB187-2625-266-J15
	-0.001	3	0.002	0.309	0.187	0.015	0.25	PTB187-2625-281-J15
	-0.001	3	0.002	0.413	0.187	0.015	0.25	PTB187-2625-375-J15
	-0.002	3.125	0.003	0.413	0.25	0.02	0.312	PTB250-2625-375-J15
	-0.002	3.375	0.005	0.688	0.375	0.03	0.5	PTB375-2625-625-J15
2.75	-0.001	3	0.002	0.275	0.125	0.015	0.25	PTB125-2750-250-J15
	-0.001	3	0.002	0.413	0.125	0.015	0.25	PTB125-2750-375-J15
	-0.001	3.125	0.002	0.309	0.187	0.015	0.25	PTB187-2750-281-J15
	-0.001	3.125	0.002	0.413	0.187	0.015	0.25	PTB187-2750-375-J15
	-0.002	3.25	0.003	0.413	0.25	0.02	0.312	PTB250-2750-375-J15
	-0.002	3.25	0.003	0.55	0.25	0.02	0.312	PTB250-2750-500-J15
	-0.002	3.375	0.004	0.55	0.312	0.02	0.312	PTB312-2750-500-J15
	-0.002	3.5	0.005	0.55	0.375	0.03	0.5	PTB375-2750-500-J15
	-0.002	3.5	0.005	0.688	0.375	0.03	0.5	PTB375-2750-625-J15
	-0.003	3.75	0.007	0.825	0.5	0.03	0.625	PTB500-2750-750-J15
2.875	-0.001	3.25	0.002	0.275	0.187	0.015	0.25	PTB187-2875-250-J15
	-0.001	3.25	0.002	0.293	0.187	0.015	0.25	PTB187-2875-266-J15
	-0.001	3.25	0.002	0.413	0.187	0.015	0.25	PTB187-2875-375-J15
	-0.002	3.375	0.003	0.413	0.25	0.02	0.312	PTB250-2875-375-J15
	-0.002	3.5	0.004	0.55	0.312	0.02	0.312	PTB312-2875-500-J15
	-0.002	3.625	0.005	0.55	0.375	0.03	0.5	PTB375-2875-500-J15
	-0.002	3.625	0.005	0.688	0.375	0.03	0.5	PTB375-2875-625-J15
3	-0.001	3.25	0.002	0.413	0.125	0.015	0.25	PTB125-3000-375-J15
	-0.001	3.375	0.002	0.343	0.187	0.015	0.25	PTB187-3000-312-J15
	-0.001	3.375	0.002	0.413	0.187	0.015	0.25	PTB187-3000-375-J15
	-0.002	3.5	0.003	0.413	0.25	0.02	0.312	PTB250-3000-375-J15
	-0.002	3.5	0.003	0.55	0.25	0.02	0.312	PTB250-3000-500-J15
	-0.002	3.625	0.004	0.413	0.312	0.02	0.312	PTB312-3000-375-J15
	-0.002	3.625	0.004	0.55	0.312	0.02	0.312	PTB312-3000-500-J15
	-0.002	3.75	0.005	0.55	0.375	0.03	0.5	PTB375-3000-500-J15
	-0.002	3.75	0.005	0.688	0.375	0.03	0.5	PTB375-3000-625-J15
	-0.002	3.875	0.004	0.759	0.437	0.03	0.5	PTB437-3000-690-J15

Dimensions								Designation	
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.		
in.								-	
3	-0.003	4	0.007	0.688	0.5	0.03	0.625	PTB500-3000-625-J15	
	cont. -0.003	4	0.007	0.825	0.5	0.03	0.625	PTB500-3000-750-J15	
3.125	-0.001	3.5	0.002	0.275	0.187	0.015	0.25	PTB187-3125-250-J15	
	-0.001	3.5	0.002	0.343	0.187	0.015	0.25	PTB187-3125-312-J15	
	-0.001	3.5	0.002	0.413	0.187	0.015	0.25	PTB187-3125-375-J15	
	-0.002	3.625	0.003	0.413	0.25	0.02	0.312	PTB250-3125-375-J15	
	-0.002	3.75	0.004	0.55	0.312	0.02	0.312	PTB312-3125-500-J15	
	-0.002	3.875	0.005	0.688	0.375	0.03	0.5	PTB375-3125-625-J15	
3.187	-0.002	3.75	0.003	0.55	0.281	0.02	0.312	PTB281-3187-500-J15	
3.25	-0.001	3.625	0.002	0.413	0.187	0.015	0.25	PTB187-3250-375-J15	
	-0.002	3.75	0.003	0.413	0.25	0.02	0.312	PTB250-3250-375-J15	
	-0.002	3.75	0.003	0.55	0.25	0.02	0.312	PTB250-3250-500-J15	
	-0.002	3.875	0.004	0.55	0.312	0.02	0.312	PTB312-3250-500-J15	
	-0.002	4	0.005	0.55	0.375	0.03	0.5	PTB375-3250-500-J15	
	-0.002	4	0.005	0.618	0.375	0.03	0.5	PTB375-3250-562-J15	
	-0.002	4	0.005	0.688	0.375	0.03	0.5	PTB375-3250-625-J15	
	-0.003	4.25	0.007	0.825	0.5	0.03	0.625	PTB500-3250-750-J15	
	-0.003	4.5	0.009	1.1	0.625	0.045	0.875	PTB625-3250-1000-J15	
	3.375	-0.001	3.75	0.002	0.275	0.187	0.015	0.25	PTB187-3375-250-J15
		-0.001	3.75	0.002	0.413	0.187	0.015	0.25	PTB187-3375-375-J15
		-0.002	3.875	0.003	0.413	0.25	0.02	0.312	PTB250-3375-375-J15
-0.002		4	0.004	0.55	0.312	0.02	0.312	PTB312-3375-500-J15	
-0.002		4	0.004	0.688	0.312	0.02	0.312	PTB312-3375-625-J15	
-0.002		4.125	0.005	0.688	0.375	0.03	0.5	PTB375-3375-625-J15	
	-0.003	4.375	0.007	0.688	0.5	0.03	0.625	PTB500-3375-625-J15	
3.437	-0.002	4	0.003	0.55	0.281	0.02	0.312	PTB281-3437-500-J15	
3.5	-0.002	4	0.003	0.413	0.25	0.02	0.312	PTB250-3500-375-J15	
	-0.002	4	0.003	0.55	0.25	0.02	0.312	PTB250-3500-500-J15	
	-0.002	4.125	0.004	0.55	0.312	0.02	0.312	PTB312-3500-500-J15	
	-0.002	4.25	0.005	0.688	0.375	0.03	0.5	PTB375-3500-625-J15	
	-0.003	4.5	0.007	0.825	0.5	0.03	0.625	PTB500-3500-750-J15	
3.625	-0.001	3.875	0.002	0.206	0.125	0.015	0.25	PTB125-3625-187-J15	
	-0.001	4	0.002	0.275	0.187	0.015	0.25	PTB187-3625-250-J15	
	-0.001	4	0.002	0.413	0.187	0.015	0.25	PTB187-3625-375-J15	
	-0.002	4.125	0.003	0.413	0.25	0.02	0.312	PTB250-3625-375-J15	
	-0.002	4.25	0.004	0.413	0.312	0.02	0.312	PTB312-3625-375-J15	
	-0.002	4.25	0.004	0.55	0.312	0.02	0.312	PTB312-3625-500-J15	
	-0.002	4.375	0.005	0.55	0.375	0.03	0.5	PTB375-3625-500-J15	
	-0.002	4.375	0.005	0.688	0.375	0.03	0.5	PTB375-3625-625-J15	
3.75	-0.001	4	0.002	0.275	0.125	0.015	0.25	PTB125-3750-250-J15	
	-0.001	4.125	0.002	0.413	0.187	0.015	0.25	PTB187-3750-375-J15	
	-0.002	4.25	0.003	0.413	0.25	0.02	0.312	PTB250-3750-375-J15	
	-0.002	4.25	0.003	0.55	0.25	0.02	0.312	PTB250-3750-500-J15	
	-0.002	4.25	0.003	0.618	0.25	0.02	0.312	PTB250-3750-562-J15	
	-0.002	4.375	0.004	0.413	0.312	0.02	0.312	PTB312-3750-375-J15	
	-0.002	4.375	0.004	0.55	0.312	0.02	0.312	PTB312-3750-500-J15	
	-0.002	4.375	0.004	0.688	0.312	0.02	0.312	PTB312-3750-625-J15	
	-0.002	4.5	0.005	0.688	0.375	0.03	0.5	PTB375-3750-625-J15	
	-0.003	4.75	0.007	0.759	0.5	0.03	0.625	PTB500-3750-690-J15	
	-0.003	5	0.009	1.1	0.625	0.045	0.875	PTB625-3750-1000-J15	

3.4

3.4 PTB profile rod seals, inch sizes d 3.875 – 5.25 in.



Maximum extrusion gap e

Radial depth S	e _{max} at 60 °C (140 °F) for pressures		
	2300 psi	3600 psi	5800 psi
in.	in.		
0.125	0.008	0.004	–
0.156 to 0.187	0.014	0.008	–
0.218 to 0.25	0.018	0.01	0.004
0.281 to 0.437	0.02	0.012	0.006
0.5 to 0.562	0.024	0.012	0.008
0.625 to 0.75	0.024	0.012	0.008

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Dimensions

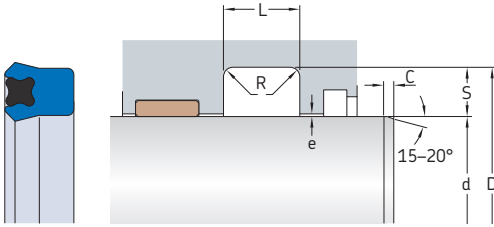
Designation

d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	Designation
in.								–
3.875	–0.001	4.25	0.002	0.413	0.187	0.015	0.25	PTB187-3875-375-J15
	–0.002	4.375	0.003	0.413	0.25	0.02	0.312	PTB250-3875-375-J15
	–0.002	4.5	0.004	0.55	0.312	0.02	0.312	PTB312-3875-500-J15
	–0.002	4.625	0.005	0.688	0.375	0.03	0.5	PTB375-3875-625-J15
	–0.002	4.75	0.004	0.825	0.437	0.03	0.5	PTB437-3875-750-J15
4	–0.001	4.375	0.002	0.413	0.187	0.015	0.25	PTB187-4000-375-J15
	–0.002	4.5	0.003	0.343	0.25	0.02	0.312	PTB250-4000-312-J15
	–0.002	4.5	0.003	0.413	0.25	0.02	0.312	PTB250-4000-375-J15
	–0.002	4.5	0.003	0.55	0.25	0.02	0.312	PTB250-4000-500-J15
	–0.002	4.5	0.003	0.618	0.25	0.02	0.312	PTB250-4000-562-J15
	–0.002	4.625	0.004	0.618	0.312	0.02	0.312	PTB312-4000-562-J15
	–0.002	4.75	0.005	0.55	0.375	0.03	0.5	PTB375-4000-500-J15
	–0.002	4.75	0.005	0.688	0.375	0.03	0.5	PTB375-4000-625-J15
	–0.002	4.875	0.004	0.825	0.437	0.03	0.5	PTB437-4000-750-J15
	–0.003	5	0.007	0.688	0.5	0.03	0.625	PTB500-4000-625-J15
–0.003	5	0.007	0.825	0.5	0.03	0.625	PTB500-4000-750-J15	
–0.003	5.124	0.007	0.825	0.562	0.03	0.75	PTB562-4000-750-J15	
4.125	–0.001	4.5	0.002	0.413	0.187	0.015	0.25	PTB187-4125-375-J15
	–0.002	4.625	0.003	0.413	0.25	0.02	0.312	PTB250-4125-375-J15
	–0.002	4.625	0.003	0.618	0.25	0.02	0.312	PTB250-4125-562-J15
	–0.002	4.75	0.004	0.55	0.312	0.02	0.312	PTB312-4125-500-J15
	–0.002	4.75	0.004	0.618	0.312	0.02	0.312	PTB312-4125-562-J15
4.25	–0.001	4.625	0.002	0.413	0.187	0.015	0.25	PTB187-4250-375-J15
	–0.002	4.75	0.003	0.413	0.25	0.02	0.312	PTB250-4250-375-J15
	–0.002	4.75	0.003	0.618	0.25	0.02	0.312	PTB250-4250-562-J15
	–0.002	4.875	0.004	0.481	0.312	0.02	0.312	PTB312-4250-437-J15
	–0.002	4.875	0.004	0.618	0.312	0.02	0.312	PTB312-4250-562-J15
	–0.002	5	0.005	0.55	0.375	0.03	0.5	PTB375-4250-500-J15
	–0.002	5	0.005	0.688	0.375	0.03	0.5	PTB375-4250-625-J15
	–0.003	5.25	0.007	0.825	0.5	0.03	0.625	PTB500-4250-750-J15
	–0.003	5.5	0.009	1.1	0.625	0.045	0.875	PTB625-4250-1000-J15
	–0.003	5.5	0.009	0.825	0.625	0.045	0.875	PTB625-4250-750-J15

Dimensions								Designation	
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.		
in.								-	
4.375	-0.001	4.75	0.002	0.413	0.187	0.015	0.25	PTB187-4375-375-J15	
	-0.002	4.875	0.003	0.618	0.25	0.02	0.312	PTB250-4375-562-J15	
	-0.002	5	0.004	0.55	0.312	0.02	0.312	PTB312-4375-500-J15	
	-0.002	5	0.004	0.618	0.312	0.02	0.312	PTB312-4375-562-J15	
	-0.002	5.125	0.005	0.55	0.375	0.03	0.5	PTB375-4375-500-J15	
	-0.002	5.125	0.005	0.688	0.375	0.03	0.5	PTB375-4375-625-J15	
	-0.003	5.375	0.007	0.825	0.5	0.03	0.625	PTB500-4375-750-J15	
	-0.001	4.75	0.002	0.206	0.125	0.015	0.25	PTB125-4500-187-J15	
4.5	-0.001	4.875	0.002	0.343	0.187	0.015	0.25	PTB187-4500-312-J15	
	-0.001	4.875	0.002	0.413	0.187	0.015	0.25	PTB187-4500-312-J15	
-0.002	5	0.003	0.343	0.25	0.02	0.312	PTB250-4500-312-J15		
-0.002	5	0.003	0.413	0.25	0.02	0.312	PTB250-4500-312-J15		
-0.002	5	0.003	0.55	0.25	0.02	0.312	PTB250-4500-500-J15		
-0.002	5	0.003	0.618	0.25	0.02	0.312	PTB250-4500-562-J15		
-0.002	5	0.003	0.688	0.25	0.02	0.312	PTB250-4500-625-J15		
-0.002	5.125	0.004	0.55	0.312	0.02	0.312	PTB312-4500-500-J15		
-0.002	5.125	0.004	0.688	0.312	0.02	0.312	PTB312-4500-625-J15		
-0.002	5.25	0.005	0.688	0.375	0.03	0.5	PTB375-4500-625-J15		
-0.002	5.375	0.006	0.825	0.437	0.03	0.5	PTB437-4500-750-J15		
4.625	-0.002	5.125	0.003	0.618	0.25	0.02	0.312	PTB250-4625-562-J15	
	-0.002	5.25	0.004	0.688	0.312	0.02	0.312	PTB312-4625-625-J15	
	-0.002	5.375	0.005	0.688	0.375	0.03	0.5	PTB375-4625-625-J15	
4.75	-0.001	5	0.002	0.275	0.125	0.015	0.25	PTB125-4750-250-J15	
	-0.001	5.125	0.002	0.413	0.187	0.015	0.25	PTB187-4750-375-J15	
	-0.002	5.25	0.003	0.413	0.25	0.02	0.312	PTB250-4750-375-J15	
	-0.002	5.25	0.003	0.618	0.25	0.02	0.312	PTB250-4750-562-J15	
	-0.002	5.375	0.004	0.55	0.312	0.02	0.312	PTB312-4750-500-J15	
	-0.002	5.375	0.004	0.688	0.312	0.02	0.312	PTB312-4750-625-J15	
	-0.002	5.5	0.005	0.55	0.375	0.03	0.5	PTB375-4750-500-J15	
	-0.002	5.5	0.005	0.688	0.375	0.03	0.5	PTB375-4750-625-J15	
	-0.002	5.625	0.006	0.825	0.437	0.03	0.5	PTB437-4750-750-J15	
	-0.003	5.75	0.007	0.759	0.5	0.03	0.625	PTB500-4750-690-J15	
	4.875	-0.002	5.375	0.003	0.618	0.25	0.02	0.312	PTB250-4875-562-J15
		-0.002	5.375	0.003	0.688	0.25	0.02	0.312	PTB250-4875-625-J15
-0.002		5.625	0.005	0.688	0.375	0.03	0.5	PTB375-4875-625-J15	
5	-0.001	5.25	0.002	0.275	0.125	0.015	0.25	PTB125-5000-250-J15	
	-0.001	5.375	0.002	0.413	0.187	0.015	0.25	PTB187-5000-375-J15	
	-0.002	5.5	0.003	0.413	0.25	0.02	0.312	PTB250-5000-375-J15	
	-0.002	5.5	0.003	0.55	0.25	0.02	0.312	PTB250-5000-500-J15	
	-0.002	5.5	0.003	0.618	0.25	0.02	0.312	PTB250-5000-562-J15	
	-0.002	5.625	0.004	0.688	0.312	0.02	0.312	PTB312-5000-625-J15	
	-0.002	5.75	0.005	0.55	0.375	0.03	0.5	PTB375-5000-500-J15	
	-0.002	5.75	0.005	0.688	0.375	0.03	0.5	PTB375-5000-625-J15	
	-0.003	6	0.007	0.688	0.5	0.03	0.625	PTB500-5000-625-J15	
	-0.003	6	0.007	0.825	0.5	0.03	0.625	PTB500-5000-750-J15	
	-0.003	6.25	0.009	1.1	0.625	0.045	0.875	PTB625-5000-1000-J15	
	5.125	-0.002	5.875	0.005	0.688	0.375	0.03	0.5	PTB375-5125-625-J15
5.25	-0.001	5.625	0.002	0.413	0.187	0.015	0.25	PTB187-5250-375-J15	
	-0.002	5.75	0.003	0.413	0.25	0.02	0.312	PTB250-5250-375-J15	
	-0.002	5.75	0.003	0.618	0.25	0.02	0.312	PTB250-5250-562-J15	
	-0.002	5.875	0.004	0.688	0.312	0.02	0.312	PTB312-5250-625-J15	

3.4

3.4 PTB profile rod seals, inch sizes d 5.25 – 7.5 in.



Maximum extrusion gap e

Radial depth S	e _{max} at 60 °C (140 °F) for pressures		
	2 300 psi	3 600 psi	5 800 psi
in.	in.		
0.125	0.008	0.004	–
0.156 to 0.187	0.014	0.008	–
0.218 to 0.25	0.018	0.01	0.004
0.281 to 0.437	0.02	0.012	0.006
0.5 to 0.562	0.024	0.012	0.008
0.625 to 0.75	0.024	0.012	0.008

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Dimensions

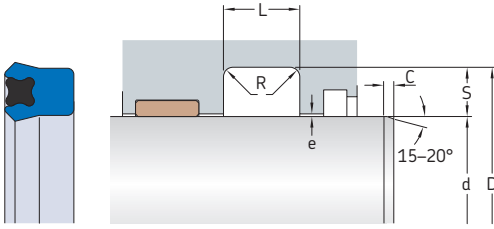
Designation

d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	Designation	
in.								–	
5.25 cont.	-0.002	6	0.005	0.55	0.375	0.03	0.5	PTB375-5250-500-J1S	
	-0.002	6	0.005	0.688	0.375	0.03	0.5	PTB375-5250-625-J1S	
	-0.003	6.25	0.007	0.825	0.5	0.03	0.625	PTB500-5250-750-J1S	
	-0.003	6.5	0.009	1.1	0.625	0.045	0.875	PTB625-5250-1000-J1S	
5.375	-0.002	5.875	0.003	0.618	0.25	0.02	0.312	PTB250-5375-562-J1S	
	-0.002	6	0.004	0.688	0.312	0.02	0.312	PTB312-5375-625-J1S	
	-0.002	6.125	0.005	0.688	0.375	0.03	0.5	PTB375-5375-625-J1S	
	-0.003	6.375	0.007	0.825	0.5	0.03	0.625	PTB500-5375-750-J1S	
5.437	-0.002	5.875	0.003	0.618	0.218	0.02	0.312	PTB218-5437-562-J1S	
	-0.002	6	0.003	0.618	0.281	0.02	0.312	PTB281-5437-562-J1S	
5.5	-0.001	5.875	0.002	0.413	0.187	0.015	0.25	PTB187-5500-375-J1S	
	-0.002	6	0.003	0.413	0.25	0.02	0.312	PTB250-5500-375-J1S	
	-0.002	6	0.003	0.618	0.25	0.02	0.312	PTB250-5500-562-J1S	
	-0.002	6.125	0.004	0.413	0.312	0.02	0.312	PTB312-5500-375-J1S	
	-0.002	6.125	0.004	0.688	0.312	0.02	0.312	PTB312-5500-625-J1S	
	-0.002	6.25	0.005	0.55	0.375	0.03	0.5	PTB375-5500-500-J1S	
	-0.002	6.25	0.005	0.688	0.375	0.03	0.5	PTB375-5500-625-J1S	
	-0.002	6.375	0.006	0.55	0.437	0.03	0.5	PTB437-5500-500-J1S	
	-0.003	6.5	0.007	0.688	0.5	0.03	0.625	PTB500-5500-625-J1S	
	-0.003	6.5	0.007	0.825	0.5	0.03	0.625	PTB500-5500-750-J1S	
	5.625	-0.001	6	0.002	0.413	0.187	0.015	0.25	PTB187-5625-375-J1S
	5.625	-0.002	6.25	0.004	0.688	0.312	0.02	0.312	PTB312-5625-625-J1S
5.75	-0.001	6.125	0.002	0.413	0.187	0.015	0.25	PTB187-5750-375-J1S	
	-0.002	6.25	0.003	0.413	0.25	0.02	0.312	PTB250-5750-375-J1S	
	-0.002	6.25	0.003	0.618	0.25	0.02	0.312	PTB250-5750-562-J1S	
	-0.002	6.375	0.004	0.688	0.312	0.02	0.312	PTB312-5750-625-J1S	
-0.002	6.5	0.005	0.688	0.375	0.03	0.5	PTB375-5750-625-J1S		
-0.003	6.75	0.007	0.825	0.5	0.03	0.625	PTB500-5750-750-J1S		
-0.003	7	0.009	1.1	0.625	0.045	0.875	PTB625-5750-1000-J1S		
5.875	-0.002	6.375	0.003	0.618	0.25	0.02	0.312	PTB250-5875-562-J1S	
	-0.002	6.5	0.004	0.413	0.312	0.02	0.312	PTB312-5875-375-J1S	
	-0.002	6.625	0.005	0.688	0.375	0.03	0.5	PTB375-5875-625-J1S	
	-0.003	6.875	0.007	0.825	0.5	0.03	0.625	PTB500-5875-750-J1S	

Dimensions								Designation
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								-
6	-0.001	6.375	0.002	0.413	0.187	0.015	0.25	PTB187-6000-375-J1S
	-0.002	6.5	0.003	0.413	0.25	0.02	0.312	PTB250-6000-375-J1S
	-0.002	6.5	0.003	0.481	0.25	0.02	0.312	PTB250-6000-437-J1S
	-0.002	6.5	0.003	0.618	0.25	0.02	0.312	PTB250-6000-562-J1S
	-0.002	6.625	0.004	0.688	0.312	0.02	0.312	PTB312-6000-625-J1S
	-0.002	6.75	0.005	0.55	0.375	0.03	0.5	PTB375-6000-500-J1S
	-0.002	6.75	0.005	0.618	0.375	0.03	0.5	PTB375-6000-562-J1S
	-0.002	6.75	0.005	0.688	0.375	0.03	0.5	PTB375-6000-625-J1S
	-0.003	7	0.007	0.825	0.5	0.03	0.625	PTB500-6000-750-J1S
	6.125	-0.002	6.625	0.003	0.413	0.25	0.02	0.312
6.25	-0.001	6.625	0.002	0.343	0.187	0.015	0.25	PTB187-6250-312-J1S
	-0.002	6.75	0.003	0.413	0.25	0.02	0.312	PTB250-6250-375-J1S
	-0.002	7	0.005	0.55	0.375	0.03	0.5	PTB375-6250-500-J1S
	-0.002	7	0.005	0.688	0.375	0.03	0.5	PTB375-6250-625-J1S
	-0.003	7.25	0.007	0.825	0.5	0.03	0.625	PTB500-6250-750-J1S
	-0.003	7.5	0.009	1.1	0.625	0.045	0.875	PTB625-6250-1000-J1S
6.375	-0.002	7	0.004	0.688	0.312	0.02	0.312	PTB312-6375-625-J1S
6.5	-0.002	7	0.003	0.413	0.25	0.02	0.312	PTB250-6500-375-J1S
	-0.002	7	0.003	0.618	0.25	0.02	0.312	PTB250-6500-562-J1S
	-0.002	7.125	0.004	0.688	0.312	0.02	0.312	PTB312-6500-625-J1S
	-0.002	7.25	0.005	0.55	0.375	0.03	0.5	PTB375-6500-500-J1S
	-0.002	7.25	0.005	0.688	0.375	0.03	0.5	PTB375-6500-625-J1S
	-0.003	7.5	0.007	0.825	0.5	0.03	0.625	PTB500-6500-750-J1S
6.625	-0.002	7.25	0.004	0.688	0.312	0.02	0.312	PTB312-6625-625-J1S
6.75	-0.002	7.25	0.003	0.413	0.25	0.02	0.312	PTB250-6750-375-J1S
	-0.002	7.25	0.003	0.618	0.25	0.02	0.312	PTB250-6750-562-J1S
	-0.002	7.5	0.005	0.55	0.375	0.03	0.5	PTB375-6750-500-J1S
	-0.002	7.5	0.005	0.688	0.375	0.03	0.5	PTB375-6750-625-J1S
	-0.003	7.75	0.007	0.825	0.5	0.03	0.625	PTB500-6750-750-J1S
6.875	-0.002	7.625	0.005	0.688	0.375	0.03	0.5	PTB375-6875-625-J1S
7	-0.002	7.5	0.003	0.413	0.25	0.02	0.312	PTB250-7000-375-J1S
	-0.002	7.5	0.003	0.618	0.25	0.02	0.312	PTB250-7000-562-J1S
	-0.002	7.625	0.004	0.688	0.312	0.02	0.312	PTB312-7000-625-J1S
	-0.002	7.75	0.005	0.55	0.375	0.03	0.5	PTB375-7000-500-J1S
	-0.002	7.75	0.005	0.688	0.375	0.03	0.5	PTB375-7000-625-J1S
	-0.003	8	0.007	0.825	0.5	0.03	0.625	PTB500-7000-750-J1S
	-0.003	8.25	0.009	1.1	0.625	0.045	0.875	PTB625-7000-1000-J1S
	-0.003	8.25	0.009	0.825	0.625	0.045	0.875	PTB625-7000-750-J1S
	7.125	-0.002	7.625	0.003	0.618	0.25	0.02	0.312
7.25	-0.002	7.75	0.003	0.618	0.25	0.02	0.312	PTB250-7250-562-J1S
	-0.002	7.875	0.004	0.688	0.312	0.02	0.312	PTB312-7250-625-J1S
	-0.002	8	0.005	0.688	0.375	0.03	0.5	PTB375-7250-625-J1S
	-0.003	8.25	0.007	0.825	0.5	0.03	0.625	PTB500-7250-750-J1S
7.375	-0.002	8	0.004	0.688	0.312	0.02	0.312	PTB312-7375-625-J1S
7.5	-0.001	7.875	0.002	0.343	0.187	0.015	0.25	PTB187-7500-312-J1S
	-0.002	8	0.003	0.413	0.25	0.02	0.312	PTB250-7500-375-J1S
	-0.002	8	0.003	0.618	0.25	0.02	0.312	PTB250-7500-562-J1S
	-0.002	8.25	0.005	0.55	0.375	0.03	0.5	PTB375-7500-500-J1S
	-0.002	8.25	0.005	0.688	0.375	0.03	0.5	PTB375-7500-625-J1S
	-0.002	8.375	0.006	0.55	0.437	0.03	0.5	PTB437-7500-500-J1S
	-0.003	8.75	0.009	1.1	0.625	0.045	0.875	PTB625-7500-1000-J1S

3.4

3.4 PTB profile rod seals, inch sizes d 7.75 – 14.375 in.



Maximum extrusion gap e

Radial depth S	e _{max} at 60 °C (140 °F) for pressures		
	2300 psi	3 600 psi	5 800 psi
in.	in.		
0.125	0.008	0.004	–
0.156 to 0.187	0.014	0.008	–
0.218 to 0.25	0.018	0.01	0.004
0.281 to 0.437	0.02	0.012	0.006
0.5 to 0.562	0.024	0.012	0.008
0.625 to 0.75	0.024	0.012	0.008

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Dimensions

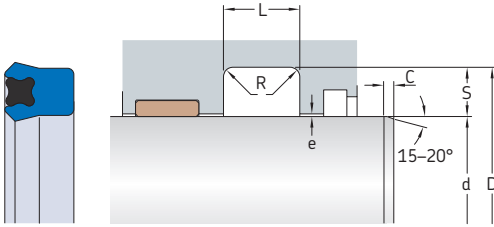
Designation

d	Tolerance	D	Tolerance	L	S	R	C	Designation
				+0.01		max.	min.	
in.								–
7.75	-0.002	8.25	0.003	0.618	0.25	0.02	0.312	PTB250-7750-562-J15
	-0.002	8.5	0.005	0.55	0.375	0.03	0.5	PTB375-7750-500-J15
	-0.002	8.5	0.005	0.688	0.375	0.03	0.5	PTB375-7750-625-J15
	-0.003	8.75	0.007	0.825	0.5	0.03	0.625	PTB500-7750-750-J15
8	-0.002	8.5	0.003	0.618	0.25	0.02	0.312	PTB250-8000-562-J15
	-0.002	8.625	0.004	0.688	0.312	0.02	0.312	PTB312-8000-625-J15
	-0.002	8.75	0.005	0.688	0.375	0.03	0.5	PTB375-8000-625-J15
	-0.003	9	0.007	0.825	0.5	0.03	0.625	PTB500-8000-750-J15
	-0.003	9.5	0.011	1.375	0.75	0.045	1	PTB750-8000-1250-J15
8.125	-0.002	8.625	0.003	0.618	0.25	0.02	0.312	PTB250-8125-562-J15
8.25	-0.002	8.75	0.003	0.618	0.25	0.02	0.312	PTB250-8250-562-J15
	-0.002	9	0.005	0.688	0.375	0.03	0.5	PTB375-8250-625-J15
	-0.003	9.5	0.009	1.1	0.625	0.045	0.875	PTB625-8250-1000-J15
8.375	-0.002	8.875	0.003	0.618	0.25	0.02	0.312	PTB250-8375-562-J15
8.5	-0.002	9	0.003	0.618	0.25	0.02	0.312	PTB250-8500-562-J15
	-0.002	9.25	0.005	0.55	0.375	0.03	0.5	PTB375-8500-500-J15
	-0.002	9.25	0.005	0.688	0.375	0.03	0.5	PTB375-8500-625-J15
	-0.002	9.312	0.005	0.55	0.406	0.03	0.5	PTB406-8500-500-J15
	-0.003	9.5	0.007	0.825	0.5	0.03	0.625	PTB500-8500-750-J15
-0.003	9.75	0.009	1.1	0.625	0.045	0.875	PTB625-8500-1000-J15	
-0.003	10	0.011	1.238	0.75	0.045	1	PTB750-8500-1125-J15	
8.75	-0.002	9.5	0.005	0.55	0.375	0.03	0.5	PTB375-8750-500-J15
9	-0.002	9.5	0.003	0.618	0.25	0.02	0.312	PTB250-9000-562-J15
	-0.002	9.75	0.005	0.688	0.375	0.03	0.5	PTB375-9000-625-J15
	-0.003	10	0.007	0.825	0.5	0.03	0.625	PTB500-9000-750-J15
	-0.003	10.5	0.011	1.375	0.75	0.045	1	PTB750-9000-1250-J15
	-0.003	10.5	0.011	1.65	0.75	0.045	1	PTB750-9000-1500-J15
9.25	-0.002	9.875	0.004	0.688	0.312	0.02	0.312	PTB312-9250-625-J15
	-0.002	10	0.005	0.688	0.375	0.03	0.5	PTB375-9250-625-J15
	-0.003	10.25	0.007	0.825	0.5	0.03	0.625	PTB500-9250-750-J15

Dimensions								Designation
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								-
9.5	-0.002	10	0.003	0.618	0.25	0.02	0.312	PTB250-9500-562-J1S
	-0.002	10.25	0.005	0.688	0.375	0.03	0.5	PTB375-9500-625-J1S
	-0.003	10.5	0.007	0.825	0.5	0.03	0.625	PTB500-9500-750-J1S
9.625	-0.002	10.125	0.003	0.413	0.25	0.02	0.312	PTB250-9625-375-J1S
9.75	-0.002	10.5	0.005	0.688	0.375	0.03	0.5	PTB375-9750-625-J1S
	-0.003	10.75	0.007	0.825	0.5	0.03	0.625	PTB500-9750-750-J1S
10	-0.002	10.5	0.003	0.618	0.25	0.02	0.312	PTB250-10000-562-J1S
	-0.002	10.75	0.005	0.688	0.375	0.03	0.5	PTB375-10000-625-J1S
	-0.003	11	0.007	0.825	0.5	0.03	0.625	PTB500-10000-750-J1S
	-0.003	11.25	0.009	1.1	0.625	0.045	0.875	PTB625-10000-1000-J1S
10.25	-0.003	11.5	0.011	1.375	0.75	0.045	1	PTB750-10000-1250-J1S
	-0.002	11	0.005	0.55	0.375	0.03	0.5	PTB375-10250-500-J1S
10.5	-0.002	11.25	0.005	0.688	0.375	0.03	0.5	PTB375-10500-625-J1S
	-0.003	11.5	0.007	1.1	0.5	0.03	0.625	PTB500-10500-1000-J1S
	-0.003	11.5	0.007	0.825	0.5	0.03	0.625	PTB500-10500-750-J1S
	-0.003	12	0.011	1.1	0.75	0.045	1	PTB750-10500-1000-J1S
10.625	-0.003	11.625	0.007	0.825	0.5	0.03	0.625	PTB500-10625-750-J1S
10.75	-0.002	11.5	0.005	0.688	0.375	0.03	0.5	PTB375-10750-625-J1S
	-0.003	11.75	0.007	0.825	0.5	0.03	0.625	PTB500-10750-750-J1S
11	-0.002	11.75	0.005	0.688	0.375	0.03	0.5	PTB375-11000-625-J1S
	-0.003	12	0.007	0.825	0.5	0.03	0.625	PTB500-11000-750-J1S
	-0.003	12.25	0.009	1.1	0.625	0.045	0.875	PTB625-11000-1000-J1S
11.25	-0.002	12	0.005	0.688	0.375	0.03	0.5	PTB375-11250-625-J1S
	-0.003	12.5	0.009	1.1	0.625	0.045	0.875	PTB625-11250-1000-J1S
11.5	-0.002	12	0.003	0.584	0.25	0.02	0.312	PTB250-11500-531-J1S
	-0.002	12.25	0.005	0.688	0.375	0.03	0.5	PTB375-11500-625-J1S
	-0.003	12.75	0.009	1.1	0.625	0.045	0.875	PTB625-11500-1000-J1S
11.75	-0.003	12.75	0.007	0.825	0.5	0.03	0.625	PTB500-11750-750-J1S
12	-0.002	12.5	0.003	0.618	0.25	0.02	0.312	PTB250-12000-562-J1S
	-0.003	13	0.007	0.825	0.5	0.03	0.625	PTB500-12000-750-J1S
	-0.003	13.5	0.011	1.375	0.75	0.045	1	PTB750-12000-1250-J1S
12.25	-0.003	13.5	0.009	1.1	0.625	0.045	0.875	PTB625-12250-1000-J1S
12.5	-0.002	13	0.003	0.584	0.25	0.02	0.312	PTB250-12500-531-J1S
	-0.003	13.5	0.007	0.825	0.5	0.03	0.625	PTB500-12500-750-J1S
12.75	-0.002	13.25	0.003	0.618	0.25	0.02	0.312	PTB250-12750-562-J1S
	-0.002	13.5	0.005	0.688	0.375	0.03	0.5	PTB375-12750-625-J1S
	-0.003	13.75	0.007	0.825	0.5	0.03	0.625	PTB500-12750-750-J1S
13	-0.003	14	0.007	0.825	0.5	0.03	0.625	PTB500-13000-750-J1S
13.5	-0.002	14	0.003	0.584	0.25	0.02	0.312	PTB250-13500-531-J1S
	-0.002	14	0.003	0.618	0.25	0.02	0.312	PTB250-13500-562-J1S
	-0.003	14.75	0.009	0.963	0.625	0.045	0.875	PTB625-13500-875-J1S
13.625	-0.002	14.375	0.005	0.688	0.375	0.03	0.5	PTB375-13625-625-J1S
14	-0.003	15	0.007	0.825	0.5	0.03	0.625	PTB500-14000-750-J1S
	-0.003	15.5	0.011	1.375	0.75	0.045	1	PTB750-14000-1250-J1S
14.25	-0.002	15	0.005	0.688	0.375	0.03	0.5	PTB375-14250-625-J1S
	-0.003	15.75	0.011	1.375	0.75	0.045	1	PTB750-14250-1250-J1S
14.375	-0.002	15.125	0.005	0.688	0.375	0.03	0.5	PTB375-14375-625-J1S

3.4

3.4 PTB profile rod seals, inch sizes d 14.5 – 35 in.



Maximum extrusion gap e

Radial depth S	e _{max} at 60 °C (140 °F) for pressures		
	2300 psi	3600 psi	5800 psi
in.	in.		
0.125	0.008	0.004	–
0.156 to 0.187	0.014	0.008	–
0.218 to 0.25	0.018	0.01	0.004
0.281 to 0.437	0.02	0.012	0.006
0.5 to 0.562	0.024	0.012	0.008
0.625 to 0.75	0.024	0.012	0.008

For additional information → page 34

Dimensions

Designation

d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	Designation
in.								–
14.5	-0.003	16	0.011	1.238	0.75	0.045	1	PTB750-14500-1125-J15
14.75	-0.002 -0.003	15.5 16	0.005 0.009	0.688 1.1	0.375 0.625	0.03 0.045	0.5 0.875	PTB375-14750-625-J15 PTB625-14750-1000-J15
15	-0.003	16	0.007	0.825	0.5	0.03	0.625	PTB500-15000-750-J15
15.25	-0.002	16	0.005	0.688	0.375	0.03	0.5	PTB375-15250-625-J15
15.5	-0.003	16.75	0.009	1.1	0.625	0.045	0.875	PTB625-15500-1000-J15
15.75	-0.003	16.75	0.007	0.825	0.5	0.03	0.625	PTB500-15750-750-J15
16	-0.003 -0.003 -0.003	17 17.25 17.5	0.007 0.009 0.011	0.825 1.238 1.375	0.5 0.625 0.75	0.03 0.045 0.045	0.625 0.875 1	PTB500-16000-750-J15 PTB625-16000-1125-J15 PTB750-16000-1250-J15
16.5	-0.003	17.5	0.007	0.825	0.5	0.03	0.625	PTB500-16500-750-J15
17	-0.003	18	0.007	0.825	0.5	0.03	0.625	PTB500-17000-750-J15
18	-0.003 -0.003	19 19.25	0.007 0.009	0.825 1.1	0.5 0.625	0.03 0.045	0.625 0.875	PTB500-18000-750-J15 PTB625-18000-1000-J15
18.5	-0.003	20	0.011	1.375	0.75	0.045	1	PTB750-18500-1250-J15
18.75	-0.003	20	0.009	1.1	0.625	0.045	0.875	PTB625-18750-1000-J15
19	-0.003	20	0.007	0.825	0.5	0.03	0.625	PTB500-19000-750-J15
20	-0.003	21.5	0.011	1.375	0.75	0.045	1	PTB750-20000-1250-J15
21	-0.003	22	0.007	0.825	0.5	0.03	0.625	PTB500-21000-750-J15
22.5	-0.003	24	0.011	1.1	0.75	0.045	1	PTB750-22500-1000-J15
23	-0.003	24	0.007	0.825	0.5	0.03	0.625	PTB500-23000-750-J15
24.5	-0.003	25.5	0.007	0.825	0.5	0.03	0.625	PTB500-24500-750-J15
25.5	-0.003	26.5	0.007	0.825	0.5	0.03	0.625	PTB500-25500-750-J15

Dimensions								Designation
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								-
30.75	-0.003	32	0.009	1.1	0.625	0.045	0.875	PTB625-30750-1000-J1S
35	-0.002	35.75	0.005	0.688	0.375	0.03	0.5	PTB375-35000-625-J1S

Other sizes are available on request