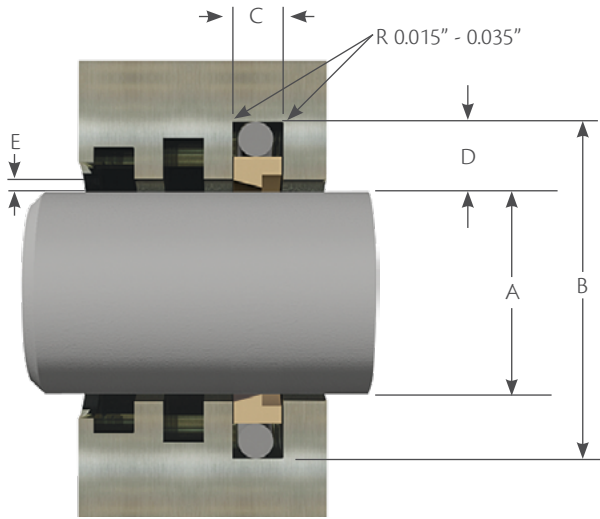


Design Information



Buffer Seals

E is the maximum extrusion gap, which is the largest gap permitted by tolerances and eccentricity.

Rendering represents an R-Style Buffer Seal.

Style:	Description	Common Material(s)
R	Traditional, field proven design. Often used as a low friction rod seal.	40% Bronze PTFE, Nitrile Loader
RM	Easy to install buffer seal. Split anti-extrusion ring. Ideal for small diameters.	High Temperature Urethane, Nylon Back-Up
RB	Urethane cup style buffer with solid endless anti-extrusion ring.	High Temperature Urethane, Nylon Back-Up
RS	Heavy duty. Ideal for large rod heavy duty service.	40% Bronze PTFE, Nitrile Loader
Solid	One piece CAT Buffer Seal	Urethane
CAT R	Two piece CAT Buffer Seal	40% Bronze PTFE, Nitrile Loader

Information is intended as a guide only; contact a Hi-Tech Seals representative when designing a new application or altering a current application.

Buffer Seals

IMPERIAL SEALS

R-Style



Max. Diametrical Clearance (E)

O-Ring C/S	@1000 PSI	@3000 PSI	@5000 PSI	Above 5000 PSI
3/32	0.018	0.016	0.008	Consult HTS
1/8	0.024	0.018	0.009	Consult HTS
3/16	0.030	0.024	0.018	Consult HTS
1/4	0.040	0.030	0.024	Consult HTS

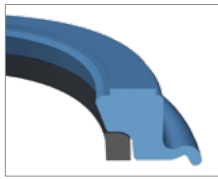
Part Number	A		O-Ring C/S	B		C Groove Width +0.010/-0.000	D Groove Depth
	Shaft Diameter	Tol.		Groove Diameter	Tol.		
BUF 1000TFE	1.000	+0.000/-0.002	3/32	1.298	+0.003/-0.000	0.126	0.149
BUF 1000TFE1	1.000	+0.000/-0.003	1/8	1.424	+0.004/-0.000	0.166	0.212
BUF 1250TFE1	1.250	+0.000/-0.002	3/32	1.548	+0.003/-0.000	0.126	0.149
BUF 1250TFE2	1.250	+0.000/-0.003	1/8	1.674	+0.004/-0.000	0.166	0.212
BUF 1500TFE1	1.500	+0.000/-0.002	3/32	1.798	+0.003/-0.000	0.126	0.149
BUF 1500TFE	1.500	+0.000/-0.003	1/8	1.924	+0.004/-0.000	0.166	0.212
BUF 1500TFE2	1.500	+0.000/-0.004	3/16	2.116	+0.005/-0.000	0.247	0.308
BUF 1750TFE	1.750	+0.000/-0.003	1/8	2.174	+0.004/-0.000	0.166	0.212
BUF 1750TFE1	1.750	+0.000/-0.004	3/16	2.366	+0.005/-0.000	0.247	0.308
BUF 2000TFE	2.000	+0.000/-0.003	1/8	2.424	+0.004/-0.000	0.166	0.212
BUF 2000TFE1	2.000	+0.000/-0.004	3/16	2.616	+0.005/-0.000	0.247	0.308
BUF 2250TFE	2.250	+0.000/-0.003	1/8	2.674	+0.004/-0.000	0.166	0.212
BUF 2250TFE1	2.250	+0.000/-0.004	3/16	2.866	+0.005/-0.000	0.247	0.308
BUF 2500TFE1	2.500	+0.000/-0.003	1/8	2.924	+0.004/-0.000	0.166	0.212
BUF 2500TFE	2.500	+0.000/-0.004	3/16	3.116	+0.005/-0.000	0.247	0.308
BUF 2750TFE1	2.750	+0.000/-0.003	1/8	3.174	+0.004/-0.000	0.166	0.212
BUF 2750TFE	2.750	+0.000/-0.004	3/16	3.366	+0.005/-0.000	0.247	0.308
BUF 3000TFE1	3.000	+0.000/-0.003	1/8	3.424	+0.004/-0.000	0.166	0.212
BUF 3000TFE	3.000	+0.000/-0.004	3/16	3.616	+0.005/-0.000	0.247	0.308
BUF 3250TFE	3.250	+0.000/-0.004	3/16	3.866	+0.005/-0.000	0.247	0.308
BUF 3500TFE	3.500	+0.000/-0.004	3/16	4.116	+0.005/-0.000	0.247	0.308
BUF 3750TFE	3.750	+0.000/-0.004	3/16	4.366	+0.005/-0.000	0.247	0.308
BUF 4000TFE1	4.000	+0.000/-0.004	3/16	4.616	+0.005/-0.000	0.247	0.308
BUF 4000TFE	4.000	+0.000/-0.005	1/4	4.830	+0.006/-0.000	0.320	0.415
BUF 4250TFE	4.250	+0.000/-0.004	3/16	4.866	+0.005/-0.000	0.247	0.308
BUF 4250TFE1	4.250	+0.000/-0.005	1/4	5.080	+0.006/-0.000	0.320	0.415
BUF 4500TFE	4.500	+0.000/-0.004	3/16	5.116	+0.005/-0.000	0.247	0.308
BUF 4500TFE1	4.500	+0.000/-0.005	1/4	5.330	+0.006/-0.000	0.320	0.415

Part Number	A		O-Ring C/S	B		C Groove Width +0.010/-0.000	D Groove Depth
	Shaft Diameter	Tol.		Groove Diameter	Tol.		
BUF 4750TFE	4.750	+0.000/-0.004	3/16	5.366	+0.005/-0.000	0.247	0.308
BUF 4750TFE1	4.750	+0.000/-0.005	1/4	5.580	+0.006/-0.000	0.320	0.415
BUF 5000TFE	5.000	+0.000/-0.004	3/16	5.616	+0.005/-0.000	0.247	0.308
BUF 5000TFE1	5.000	+0.000/-0.005	1/4	5.830	+0.006/-0.000	0.320	0.415
BUF 5250TFE	5.250	+0.000/-0.004	3/16	5.866	+0.005/-0.000	0.247	0.308
BUF 5250TFE1	5.250	+0.000/-0.005	1/4	6.080	+0.006/-0.000	0.320	0.415
BUF 5500TFE	5.500	+0.000/-0.004	3/16	6.116	+0.005/-0.000	0.247	0.308
BUF 5500TFE	5.500	+0.000/-0.005	1/4	6.330	+0.006/-0.000	0.320	0.415
BUF 5750TFE	5.750	+0.000/-0.004	3/16	6.366	+0.005/-0.000	0.247	0.308
BUF 5750TFE1	5.750	+0.000/-0.005	1/4	6.580	+0.006/-0.000	0.320	0.415
BUF 6000TFE	6.000	+0.000/-0.004	3/16	6.616	+0.005/-0.000	0.247	0.308
BUF 6000TFE1	6.000	+0.000/-0.005	1/4	6.830	+0.006/-0.000	0.320	0.415
BUF 6250TFE	6.250	+0.000/-0.004	3/16	6.866	+0.005/-0.000	0.247	0.308
BUF 6250TFE1	6.250	+0.000/-0.005	1/4	7.080	+0.006/-0.000	0.320	0.415
BUF 6500TFE	6.500	+0.000/-0.004	3/16	7.116	+0.005/-0.000	0.247	0.308
BUF 6500TFE1	6.500	+0.000/-0.005	1/4	7.330	+0.006/-0.000	0.320	0.415
BUF 6750TFE	6.750	+0.000/-0.004	3/16	7.366	+0.005/-0.000	0.247	0.308
BUF 6750TFE1	6.750	+0.000/-0.005	1/4	7.580	+0.006/-0.000	0.320	0.415
BUF 7000TFE	7.000	+0.000/-0.004	3/16	7.616	+0.005/-0.000	0.247	0.308
BUF 7000TFE1	7.000	+0.000/-0.005	1/4	7.830	+0.006/-0.000	0.320	0.415
BUF 7250TFE	7.250	+0.000/-0.004	3/16	7.866	+0.005/-0.000	0.247	0.308
BUF 7250TFE1	7.250	+0.000/-0.005	1/4	8.080	+0.006/-0.000	0.320	0.415
BUF 7500TFE	7.500	+0.000/-0.004	3/16	8.116	+0.005/-0.000	0.247	0.308
BUF 7500TFE1	7.500	+0.000/-0.005	1/4	8.330	+0.006/-0.000	0.320	0.415
BUF 7750TFE	7.750	+0.000/-0.004	3/16	8.366	+0.005/-0.000	0.247	0.308
BUF 7750TFE1	7.750	+0.000/-0.005	1/4	8.580	+0.006/-0.000	0.320	0.415
BUF 8000TFE1	8.000	+0.000/-0.004	3/16	8.616	+0.005/-0.000	0.247	0.308
BUF 8000TFE	8.000	+0.000/-0.005	1/4	8.830	+0.006/-0.000	0.320	0.415
BUF 8500TFE	8.500	+0.000/-0.005	1/4	9.330	+0.006/-0.000	0.320	0.415
BUF 9000TFE	9.000	+0.000/-0.005	1/4	9.830	+0.006/-0.000	0.320	0.415
BUF 9500TFE	9.500	+0.000/-0.005	1/4	10.330	+0.006/-0.000	0.320	0.415
BUF 10000TFE	10.000	+0.000/-0.005	1/4	10.830	+0.006/-0.000	0.320	0.415
BUF 10500TFE	10.500	+0.000/-0.005	1/4	11.330	+0.006/-0.000	0.320	0.415
BUF 11000TFE	11.000	+0.000/-0.005	1/4	11.830	+0.006/-0.000	0.320	0.415
BUF 11500TFE	11.500	+0.000/-0.005	1/4	12.330	+0.006/-0.000	0.320	0.415
BUF 12000TFE	12.000	+0.000/-0.005	1/4	12.830	+0.006/-0.000	0.320	0.415

Buffer Seals

IMPERIAL SEALS

RM-Style



Max. Diametrical Clearance (E)

O-Ring C/S	@1000 PSI	@3000 PSI	@5000 PSI	Above 5000 PSI
1/8	0.022	0.018	0.012	Consult HTS
3/16	0.030	0.022	0.018	Consult HTS

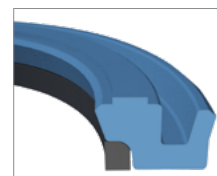
Part Number	A		O-Ring C/S	B		C Groove Width +0.010/-0.000	D Groove Depth
	Shaft Diameter	Tol.		Groove Diameter	Tol.		
BUF 1000RM	1.000	+0.000/-0.003	1/8	1.424	+0.004/-0.000	0.166	0.212
BUF 1250RM	1.250	+0.000/-0.003	1/8	1.674	+0.004/-0.000	0.166	0.212
BUF 1500RM	1.500	+0.000/-0.003	1/8	1.924	+0.004/-0.000	0.166	0.212
BUF 1500RM1	1.500	+0.000/-0.004	3/16	2.116	+0.005/-0.000	0.247	0.308
BUF 1750RM	1.750	+0.000/-0.003	1/8	2.174	+0.004/-0.000	0.166	0.212
BUF 1750RM1	1.750	+0.000/-0.004	3/16	2.366	+0.005/-0.000	0.247	0.308
BUF 2000RM	2.000	+0.000/-0.003	1/8	2.424	+0.004/-0.000	0.166	0.212
BUF 2000RM1	2.000	+0.000/-0.004	3/16	2.616	+0.005/-0.000	0.247	0.308
BUF 2250RM	2.250	+0.000/-0.003	1/8	2.674	+0.004/-0.000	0.166	0.212
BUF 2250RM1	2.250	+0.000/-0.004	3/16	2.866	+0.005/-0.000	0.247	0.308
BUF 2500RM	2.500	+0.000/-0.003	1/8	2.924	+0.004/-0.000	0.166	0.212
BUF 2500RM1	2.500	+0.000/-0.004	3/16	3.116	+0.005/-0.000	0.247	0.308
BUF 2750RM	2.750	+0.000/-0.003	1/8	3.174	+0.004/-0.000	0.166	0.212
BUF 2750RM1	2.750	+0.000/-0.004	3/16	3.366	+0.005/-0.000	0.247	0.308
BUF 3000RM	3.000	+0.000/-0.003	1/8	3.424	+0.004/-0.000	0.166	0.212
BUF 3000RM1	3.000	+0.000/-0.004	3/16	3.616	+0.005/-0.000	0.247	0.308

Buffer Seals

RB-Style

Max. Diametrical Clearance (E)

O-Ring C/S	@1000 PSI	@3000 PSI	@5000 PSI	Above 5000 PSI
3/16	0.030	0.022	0.018	Consult HTS



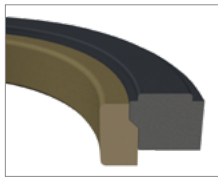
Buffer Seals

Part Number	A		O-Ring C/S	B		C Groove Width +0.010/-0.000	D Groove Depth
	Shaft Diameter	Tol.		Groove Diameter	Tol.		
BUF 1750RB	1.750	+0.000/-0.004	3/16	2.366	+0.005/-0.000	0.247	0.308
BUF 2250RB	2.250	+0.000/-0.004	3/16	2.866	+0.005/-0.000	0.247	0.308
BUF 2500RB	2.500	+0.000/-0.004	3/16	3.116	+0.005/-0.000	0.247	0.308
BUF 2750RB	2.750	+0.000/-0.004	3/16	3.366	+0.005/-0.000	0.247	0.308
BUF 3000RB	3.000	+0.000/-0.004	3/16	3.616	+0.005/-0.000	0.247	0.308
BUF 3500RB	3.500	+0.000/-0.004	3/16	4.116	+0.005/-0.000	0.247	0.308
BUF 4000RB	4.000	+0.000/-0.004	3/16	4.616	+0.005/-0.000	0.247	0.308
BUF 4250RB	4.250	+0.000/-0.004	3/16	4.866	+0.005/-0.000	0.247	0.308
BUF 4500RB	4.500	+0.000/-0.004	3/16	5.116	+0.005/-0.000	0.247	0.308
BUF 4750RB	4.750	+0.000/-0.004	3/16	5.366	+0.005/-0.000	0.247	0.308
BUF 5000RB	5.000	+0.000/-0.004	3/16	5.616	+0.005/-0.000	0.247	0.308
BUF 5250RB	5.250	+0.000/-0.004	3/16	5.866	+0.005/-0.000	0.247	0.308
BUF 5500RB	5.500	+0.000/-0.004	3/16	6.116	+0.005/-0.000	0.247	0.308
BUF 5750RB	5.750	+0.000/-0.004	3/16	6.366	+0.005/-0.000	0.247	0.308
BUF 6000RB	6.000	+0.000/-0.004	3/16	6.616	+0.005/-0.000	0.247	0.308
BUF 6250RB	6.250	+0.000/-0.004	3/16	6.866	+0.005/-0.000	0.247	0.308
BUF 6500RB	6.500	+0.000/-0.004	3/16	7.116	+0.005/-0.000	0.247	0.308
BUF 6750RB	6.750	+0.000/-0.004	3/16	7.366	+0.005/-0.000	0.247	0.308
BUF 7000RB	7.000	+0.000/-0.004	3/16	7.616	+0.005/-0.000	0.247	0.308
BUF 7250RB	7.250	+0.000/-0.004	3/16	7.866	+0.005/-0.000	0.247	0.308
BUF 7500RB	7.500	+0.000/-0.004	3/16	8.116	+0.005/-0.000	0.247	0.308
BUF 7750RB	7.750	+0.000/-0.004	3/16	8.366	+0.005/-0.000	0.247	0.308
BUF 8000RB	8.000	+0.000/-0.004	3/16	8.616	+0.005/-0.000	0.247	0.308

Buffer Seals

IMPERIAL SEALS

RS-Style



Max. Diametrical Clearance (E)

O-Ring C/S	@1000 PSI	@3000 PSI	@5000 PSI	Above 5000 PSI
3/16	0.040	0.030	0.024	Consult HTS
1/4	0.046	0.036	0.030	Consult HTS

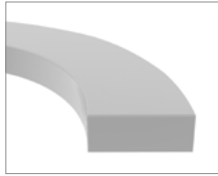
Part Number	A		O-Ring C/S	B		C Groove Width +0.010/-0.000	D Groove Depth
	Shaft Diameter	Tol.		Groove Diameter	Tol.		
BUF 3000RS	3.000	+0.000/-0.004	3/16	3.616	+0.005/-0.000	0.247	0.308
BUF 3250RS	3.250	+0.000/-0.004	3/16	3.866	+0.005/-0.000	0.247	0.308
BUF 3500RS	3.500	+0.000/-0.004	3/16	4.116	+0.005/-0.000	0.247	0.308
BUF 3750RS	3.750	+0.000/-0.004	3/16	4.366	+0.005/-0.000	0.247	0.308
BUF 4000RS	4.000	+0.000/-0.004	3/16	4.616	+0.005/-0.000	0.247	0.308
BUF 4000RS1	4.000	+0.000/-0.005	1/4	4.830	+0.006/-0.000	0.320	0.415
BUF 4250RS	4.250	+0.000/-0.004	3/16	4.866	+0.005/-0.000	0.247	0.308
BUF 4250RS1	4.250	+0.000/-0.005	1/4	5.080	+0.006/-0.000	0.320	0.415
BUF 4500RS	4.500	+0.000/-0.004	3/16	5.116	+0.005/-0.000	0.247	0.308
BUF 4500RS1	4.500	+0.000/-0.005	1/4	5.330	+0.006/-0.000	0.320	0.415
BUF 4750RS	4.750	+0.000/-0.004	3/16	5.366	+0.005/-0.000	0.247	0.308
BUF 4750RS1	4.750	+0.000/-0.005	1/4	5.580	+0.006/-0.000	0.320	0.415
BUF 5000RS	5.000	+0.000/-0.004	3/16	5.616	+0.005/-0.000	0.247	0.308
BUF 5000RS1	5.000	+0.000/-0.005	1/4	5.830	+0.006/-0.000	0.320	0.415
BUF 5250RS	5.250	+0.000/-0.004	3/16	5.866	+0.005/-0.000	0.247	0.308
BUF 5250RS1	5.250	+0.000/-0.005	1/4	6.080	+0.006/-0.000	0.320	0.415
BUF 5500RS	5.500	+0.000/-0.004	3/16	6.116	+0.005/-0.000	0.247	0.308
BUF 5500RS1	5.500	+0.000/-0.005	1/4	6.330	+0.006/-0.000	0.320	0.415
BUF 5750RS	5.750	+0.000/-0.004	3/16	6.366	+0.005/-0.000	0.247	0.308
BUF 5750RS1	5.750	+0.000/-0.005	1/4	6.580	+0.006/-0.000	0.320	0.415
BUF 6000RS	6.000	+0.000/-0.004	3/16	6.616	+0.005/-0.000	0.247	0.308

Buffer Seals

Part Number	A		O-Ring C/S	B		C Groove Width +0.010/-0.000	D Groove Depth
	Shaft Diameter	Tol.		Groove Diameter	Tol.		
BUF 6000RS1	6.000	+0.000/-0.005	1/4	6.830	+0.006/-0.000	0.320	0.415
BUF 6250RS	6.250	+0.000/-0.004	3/16	6.866	+0.005/-0.000	0.247	0.308
BUF 6250RS1	6.250	+0.000/-0.005	1/4	7.080	+0.006/-0.000	0.320	0.415
BUF 6500RS	6.500	+0.000/-0.004	3/16	7.116	+0.005/-0.000	0.247	0.308
BUF 6500RS1	6.500	+0.000/-0.005	1/4	7.330	+0.006/-0.000	0.320	0.415
BUF 6750RS	6.750	+0.000/-0.004	3/16	7.366	+0.005/-0.000	0.247	0.308
BUF 6750RS1	6.750	+0.000/-0.005	1/4	7.580	+0.006/-0.000	0.320	0.415
BUF 7000RS	7.000	+0.000/-0.004	3/16	7.616	+0.005/-0.000	0.247	0.308
BUF 7000RS1	7.000	+0.000/-0.005	1/4	7.830	+0.006/-0.000	0.320	0.415
BUF 7250RS	7.250	+0.000/-0.004	3/16	7.866	+0.005/-0.000	0.247	0.308
BUF 7250RS1	7.250	+0.000/-0.005	1/4	8.080	+0.006/-0.000	0.320	0.415
BUF 7500RS	7.500	+0.000/-0.004	3/16	8.116	+0.005/-0.000	0.247	0.308
BUF 7500RS1	7.500	+0.000/-0.005	1/4	8.330	+0.006/-0.000	0.320	0.415
BUF 7750RS	7.750	+0.000/-0.004	3/16	8.366	+0.005/-0.000	0.247	0.308
BUF 7750RS1	7.750	+0.000/-0.005	1/4	8.580	+0.006/-0.000	0.320	0.415
BUF 8000RS	8.000	+0.000/-0.004	3/16	8.616	+0.005/-0.000	0.247	0.308
BUF 8000RS1	8.000	+0.000/-0.005	1/4	8.830	+0.006/-0.000	0.320	0.415
BUF 8500RS	8.500	+0.000/-0.005	1/4	9.330	+0.006/-0.000	0.320	0.415
BUF 9000RS	9.000	+0.000/-0.005	1/4	9.830	+0.006/-0.000	0.320	0.415
BUF 9500RS	9.500	+0.000/-0.005	1/4	10.330	+0.006/-0.000	0.320	0.415
BUF 10000RS	10.000	+0.000/-0.005	1/4	10.830	+0.006/-0.000	0.320	0.415
BUF 10500RS	10.500	+0.000/-0.005	1/4	11.330	+0.006/-0.000	0.320	0.415
BUF 11000RS	11.000	+0.000/-0.005	1/4	11.830	+0.006/-0.000	0.320	0.415
BUF 11500RS	11.500	+0.000/-0.005	1/4	12.330	+0.006/-0.000	0.320	0.415
BUF 12000RS	12.000	+0.000/-0.005	1/4	12.830	+0.006/-0.000	0.320	0.415
BUF 12500RS	12.500	+0.000/-0.005	1/4	13.330	+0.006/-0.000	0.320	0.415
BUF 13000RS	13.000	+0.000/-0.005	1/4	13.830	+0.006/-0.000	0.320	0.415
BUF 13500RS	13.500	+0.000/-0.005	1/4	14.330	+0.006/-0.000	0.320	0.415
BUF 14000RS	14.000	+0.000/-0.005	1/4	14.830	+0.006/-0.000	0.320	0.415
BUF 14500RS	14.500	+0.000/-0.005	1/4	15.330	+0.006/-0.000	0.320	0.415
BUF 15000RS	15.000	+0.000/-0.005	1/4	15.830	+0.006/-0.000	0.320	0.415
BUF 15500RS	15.500	+0.000/-0.005	1/4	16.330	+0.006/-0.000	0.320	0.415
BUF 16000RS	16.000	+0.000/-0.005	1/4	16.830	+0.006/-0.000	0.320	0.415

Buffer Seals

Caterpillar* One Piece Style



Part Number	Shaft Diameter	CAT Part Number
BUF 0875	0.875	5P4673
BUF 1250	1.250	9J3497
BUF 1500	1.500	6J9733
BUF 1750	1.750	6J9178
BUF 2000	2.000	6J6917
BUF 2250	2.250	5J3616
BUF 2375	2.375	6J6916
BUF 2500	2.500	5J3620
BUF 2750	2.750	6J6553
BUF 3000	3.000	6J6915
BUF 3250	3.250	6J7167

Part Number	Shaft Diameter	CAT Part Number
BUF 3500	3.500	6J6736
BUF 3750	3.750	8J6070
BUF 4000	4.000	8J4627
BUF 4250	4.250	7J8943
BUF 4375	4.375	3G5055
BUF 4750	4.750	7J9257
BUF 5000	5.000	8J4509
BUF 5500	5.500	8J9449
BUF 5750	5.750	9J5468
BUF 6500	6.500	6J8631
BUF 7000	7.000	9J2495

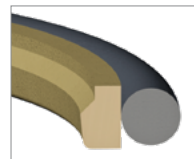
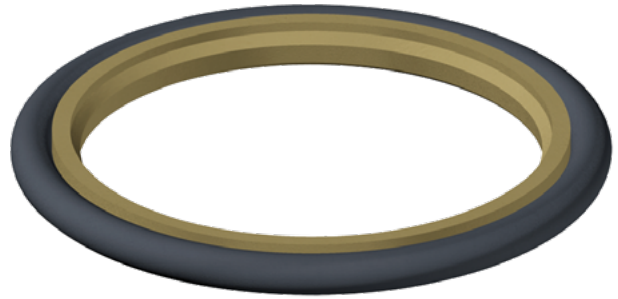
Caterpillar* Two Piece Style



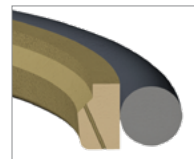
Part Number	Shaft Diameter	CAT Part Number
BUF 15001	1.500	8C9122
BUF 17501	1.750	8C9123
BUF 20001	2.000	8C9124
BUF 22501	2.250	8C9125
BUF 23751	2.375	8C9138
BUF 25001	2.500	8C3839
BUF 27501	2.750	8C3841
BUF 30001	3.000	8C9126
BUF 32501	3.250	8C9121
BUF 35001	3.500	8C9127
BUF 37501	3.750	8C9128
BUF 40001	4.000	8C9129

* Our Caterpillar parts are not original equipment parts. Caterpillar part numbers are only provided as a reference.

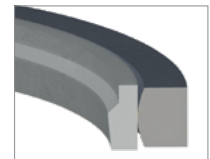
Seal Materials	Temp. Range
15% Glass, 5% Moly filled PTFE	-260°C to 260°C
40% Bronze filled PTFE	-260°C to 260°C
Loader Materials	
Nitrile	-40°C to 120°C
Viton™/Fluorocarbon	-26°C to 204°C
Urethane	-54°C to 105°C



MR



MR w/ Pressure Relief Port (PR)

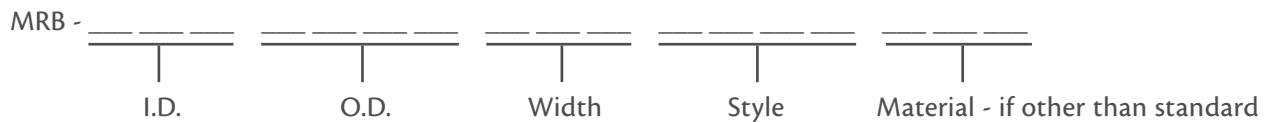


S

Product Description

Buffer seals are commonly used in combination with another rod seal, typically a U-cup style seal. In rod applications, buffer seals absorb pressure fluctuations when working under high-load conditions; this increases the lifespan of the rod seal.

Part Numbers:

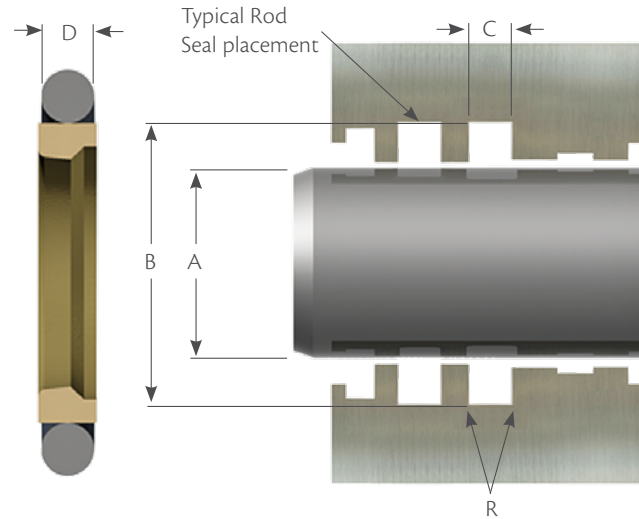
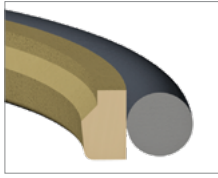


Example: MRB 20 307 42 MR - Metric MR Style Buffer Seal, Bronze Filled PTFE, Nitrile Loader, 20.00 mm I.D., 30.70 mm O.D., 4.20 mm Width

Buffer Seals

METRIC SEALS

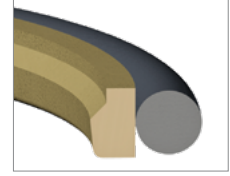
MR Style



The standard materials for MR style buffer seals is a bronze filled PTFE ring with a nitrile loader.

Part Number	A Shaft Diameter	B Groove Diameter	C Groove Width	D Seal Height	Profile	R Gland Radius
MRB 1014922 MR	10.00	14.90	2.20	2.00	2.45	0.30
MRB 1017332 MR	10.00	17.30	3.20	3.00	3.65	0.50
MRB 1216922 MR	12.00	16.90	2.20	2.00	2.45	0.30
MRB 1219332 MR	12.00	19.30	3.20	3.00	3.65	0.50
MRB 1418922 MR	14.00	18.90	2.20	2.00	2.45	0.30
MRB 1421332 MR	14.00	21.30	3.20	3.00	3.65	0.50
MRB 1519922 MR	15.00	19.90	2.20	2.00	2.45	0.30
MRB 1522332 MR	15.00	22.30	3.20	3.00	3.65	0.50
MRB 1620922 MR	16.00	20.90	2.20	2.00	2.45	0.30
MRB 1623332 MR	16.00	23.30	3.20	3.00	3.65	0.50
MRB 1822922 MR	18.00	22.90	2.20	2.00	2.45	0.30
MRB 1825332 MR	18.00	25.30	3.20	3.00	3.65	0.50
MRB 2027332 MR	20.00	27.30	3.20	3.00	3.65	0.50
MRB 2030742 MR	20.00	30.70	4.20	4.00	5.35	0.80
MRB 2229332 MR	22.00	29.30	3.20	3.00	3.65	0.50
MRB 2232742 MR	22.00	32.70	4.20	4.00	5.35	0.80
MRB 2532332 MR	25.00	32.30	3.20	3.00	3.65	0.50
MRB 2535742 MR	25.00	35.70	4.20	4.00	5.35	0.80
MRB 2835332 MR	28.00	35.30	3.20	3.00	3.65	0.50
MRB 2838742 MR	28.00	38.70	4.20	4.00	5.35	0.80
MRB 3037332 MR	30.00	37.30	3.20	3.00	3.65	0.50
MRB 3040742 MR	30.00	40.70	4.20	4.00	5.35	0.80
MRB 3239332 MR	32.00	39.30	3.20	3.00	3.65	0.50
MRB 3242742 MR	32.00	42.70	4.20	4.00	5.35	0.80
MRB 3542332 MR	35.00	42.30	3.20	3.00	3.65	0.50
MRB 3545742 MR	35.00	45.70	4.20	4.00	5.35	0.80
MRB 3643332 MR	36.00	43.30	3.20	3.00	3.65	0.50
MRB 3646742 MR	36.00	46.70	4.20	4.00	5.35	0.80
MRB 4050742 MR	40.00	50.70	4.20	4.00	5.35	0.80
MRB 4055163 MR	40.00	55.10	6.30	5.90	7.55	1.20

MR Style

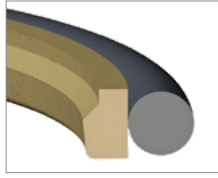


Part Number	A Shaft Diameter	B Groove Diameter	C Groove Width	D Seal Height	Profile	R Gland Radius
MRB 4252742 MR	42.00	52.70	4.20	4.00	5.35	0.80
MRB 4257163 MR	42.00	57.10	6.30	5.90	7.55	1.20
MRB 4555742 MR	45.00	55.70	4.20	4.00	5.35	0.80
MRB 4560163 MR	45.00	60.10	6.30	5.90	7.55	1.20
MRB 5060742 MR	50.00	60.70	4.20	4.00	5.35	0.80
MRB 5065163 MR	50.00	65.10	6.30	5.90	7.55	1.20
MRB 5565742 MR	55.00	65.70	4.20	4.00	5.35	0.80
MRB 5666742 MR	56.00	66.70	4.20	4.00	5.35	0.80
MRB 5671163 MR	56.00	71.10	6.30	5.90	7.55	1.20
MRB 6070742 MR	60.00	70.70	4.20	4.00	5.35	0.80
MRB 6075163 MR	60.00	75.10	6.30	5.90	7.55	1.20
MRB 6378163 MR	63.00	78.10	6.30	5.90	7.55	1.20
MRB 6580163 MR	65.00	80.10	6.30	5.90	7.55	1.20
MRB 7085163 MR	70.00	85.10	6.30	5.90	7.55	1.20
MRB 7590163 MR	75.00	90.10	6.30	5.90	7.55	1.20
MRB 8095163 MR	80.00	95.10	6.30	5.90	7.55	1.20
MRB 85100163 MR	85.00	100.10	6.30	5.90	7.55	1.20
MRB 90105163 MR	90.00	105.10	6.30	5.90	7.55	1.20
MRB 95110163 MR	95.00	110.10	6.30	5.90	7.55	1.20
MRB 100115163 MR	100.00	115.10	6.30	5.90	7.55	1.20
MRB 105120163 MR	105.00	120.10	6.30	5.90	7.55	1.20
MRB 110125163 MR	110.00	125.10	6.30	5.90	7.55	1.20
MRB 115130163 MR	115.00	130.10	6.30	5.90	7.55	1.20
MRB 120135163 MR	120.00	135.10	6.30	5.90	7.55	1.20
MRB 125140163 MR	125.00	140.10	6.30	5.90	7.55	1.20
MRB 130145163 MR	130.00	145.10	6.30	5.90	7.55	1.20
MRB 140155163 MR	140.00	155.10	6.30	5.90	7.55	1.20
MRB 150165163 MR	150.00	165.10	6.30	5.90	7.55	1.20
MRB 160175163 MR	160.00	175.10	6.30	5.90	7.55	1.20
MRB 170185163 MR	170.00	185.10	6.30	5.90	7.55	1.20
MRB 180195163 MR	180.00	195.10	6.30	5.90	7.55	1.20
MRB 190205163 MR	190.00	205.10	6.30	5.90	7.55	1.20
MRB 200220581 MR	200.00	220.50	8.10	7.60	10.25	2.00
MRB 210230581 MR	210.00	230.50	8.10	7.60	10.25	2.00
MRB 220240581 MR	220.00	240.50	8.10	7.60	10.25	2.00
MRB 230250581 MR	230.00	250.50	8.10	7.60	10.25	2.00
MRB 240260581 MR	240.00	260.50	8.10	7.60	10.25	2.00
MRB 250270581 MR	250.00	270.50	8.10	7.60	10.25	2.00

Buffer Seals

METRIC SEALS

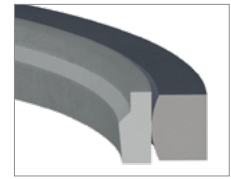
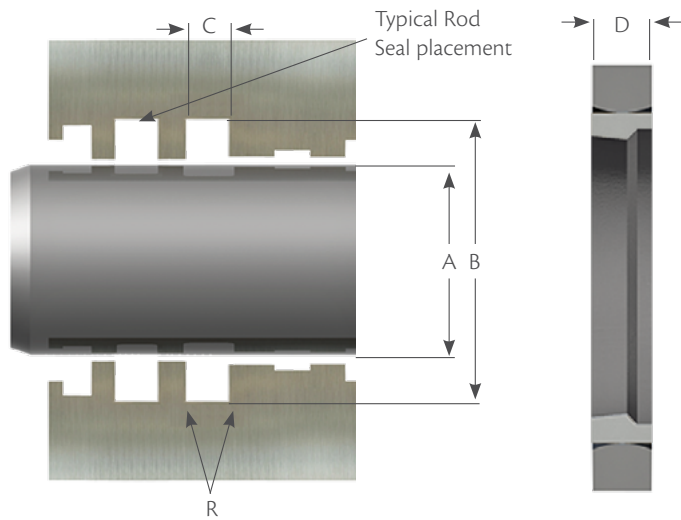
MR Style



Part Number	A Shaft Diameter	B Groove Diameter	C Groove Width	D Height	Profile	R Gland Radius
MRB 26028481 MR	260.00	284.00	8.10	7.60	12.00	2.00
MRB 27029481 MR	270.00	294.00	8.10	7.60	12.00	2.00
MRB 29031481 MR	290.00	314.00	8.10	7.60	12.00	2.00
MRB 30032481 MR	300.00	324.00	8.10	7.60	12.00	2.00
MRB 32034481 MR	320.00	344.00	8.10	7.60	12.00	2.00
MRB 33035481 MR	330.00	354.00	8.10	7.60	12.00	2.00
MRB 36038481 MR	360.00	384.00	8.10	7.60	12.00	2.00
MRB 40042481 MR	400.00	424.00	8.10	7.60	12.00	2.00
MRB 41043481 MR	410.00	434.00	8.10	7.60	12.00	2.00
MRB 42044481 MR	420.00	444.00	8.10	7.60	12.00	2.00
MRB 43045481 MR	430.00	454.00	8.10	7.60	12.00	2.00
MRB 44046481 MR	440.00	464.00	8.10	7.60	12.00	2.00
MRB 46048481 MR	460.00	484.00	8.10	7.60	12.00	2.00
MRB 48050481 MR	480.00	504.00	8.10	7.60	12.00	2.00
MRB 50052481 MR	500.00	524.00	8.10	7.60	12.00	2.00
MRB 55057481 MR	550.00	574.00	8.10	7.60	12.00	2.00
MRB 56058481 MR	560.00	584.00	8.10	7.60	12.00	2.00
MRB 58060481 MR	580.00	604.00	8.10	7.60	12.00	2.00
MRB 60062481 MR	600.00	624.00	8.10	7.60	12.00	2.00
MRB 63065481 MR	630.00	654.00	8.10	7.60	12.00	2.00
MRB 64066481 MR	640.00	664.00	8.10	7.60	12.00	2.00
MRB 650677395 MR	650.00	677.30	9.50	8.70	13.65	2.00
MRB 670697395 MR	670.00	697.30	9.50	8.70	13.65	2.00
MRB 730757395 MR	730.00	757.30	9.50	8.70	13.65	2.00
MRB 750777395 MR	750.00	777.30	9.50	8.70	13.65	2.00
MRB 800827395 MR	800.00	827.30	9.50	8.70	13.65	2.00
MRB 850877395 MR	850.00	877.30	9.50	8.70	13.65	2.00
MRB 860887395 MR	860.00	887.30	9.50	8.70	13.65	2.00
MRB 890917395 MR	890.00	917.30	9.50	8.70	13.65	2.00

Buffer Seals

S Style



The standard materials for S style buffer seals includes a moly glass filled PTFE ring with a nitrile loader.

Buffer Seals

Part Number	A Shaft Diameter	B Groove Diameter	C Groove Width	D Height	Profile	R Gland Radius
MRB 035455 S	35.00	45.00	5.00	4.70	5.00	0.40
MRB 0405575 S	40.00	55.00	7.50	7.00	7.50	0.40
MRB 0506575 S	50.00	65.00	7.50	7.00	7.50	0.30
MRB 0607575 S	60.00	75.00	7.50	7.00	7.50	0.30
MRB 0708510 S	70.00	85.00	10.00	7.50	7.50	0.30
MRB 08010010 S	80.00	100.00	10.00	9.40	10.00	0.40
MRB 10012010 S	100.00	120.00	10.00	9.40	10.00	0.40
MRB 14016010 S	140.00	160.00	10.00	9.40	10.00	0.40
MRB 15017010 S	150.00	170.00	10.00	9.40	10.00	0.40
MRB 16018010 S	160.00	180.00	10.00	9.40	10.00	0.40
MRB 17519510 S	175.00	195.00	10.00	9.40	10.00	0.40
MRB 18020010 S	180.00	200.00	10.00	9.40	10.00	0.40
MRB 20022010 S	200.00	220.00	10.00	9.40	10.00	0.40
MRB 220245125 S	220.00	245.00	12.50	11.70	12.50	0.40
MRB 240265125 S	240.00	265.00	12.50	11.70	12.50	0.40
MRB 280305125 S	280.00	305.00	12.50	11.70	12.50	0.40
MRB 300325125 S	300.00	325.00	12.50	11.70	12.50	0.40
MRB 32035015 S	320.00	350.00	15.00	14.00	15.00	0.80
MRB 33036015 S	330.00	360.00	15.00	14.00	15.00	0.80
MRB 36039015 S	360.00	390.00	15.00	14.00	15.00	0.80
MRB 38041015 S	380.00	410.00	15.00	14.00	15.00	0.80
MRB 40043015 S	400.00	430.00	15.00	14.00	15.00	0.80
MRB 44047015 S	440.00	470.00	15.00	14.00	15.00	0.80
MRB 46049015 S	460.00	490.00	15.00	14.00	15.00	0.80
MRB 540575175 S	540.00	575.00	17.50	16.40	17.50	0.80
MRB 650685175 S	650.00	685.00	17.50	16.40	17.50	1.20
MRB 80084020 S	800.00	840.00	20.00	18.70	20.00	1.20
MRB 82086020 S	820.00	860.00	20.00	18.70	20.00	1.20
MRB 85089020 S	850.00	890.00	20.00	18.70	20.00	1.20