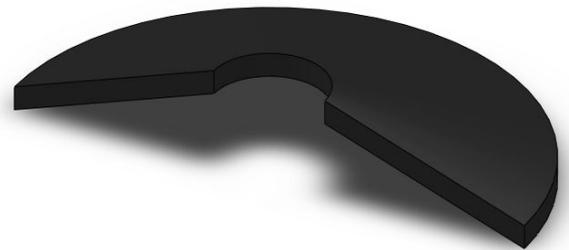


TRB-20 SERIES™

Material, design advances make Tapered Rod Bumpers perform significantly better than standard flat bumpers.

TRB's are with a unique design feature a 20-degree bevel from the point of impact to the thickness of the bumper. This design, coupled with its superior material, offers greatly increased displacement-more energy absorption and reduced force at impact.



CHARACTERISTICS OF TRB-20 SERIES™

TEMAX Elastomer High Capacity Tapered Rod Bumpers (TRB's) are designed to absorb the maximum amount of shock in multiple rod applications. The unique shape features a 20-degree bevel from the point of impact to the thickness of the bumper. TRB's offers increased displacement, more energy absorption, reduced force at impact, and noise reduction compared to its urethane counterparts.



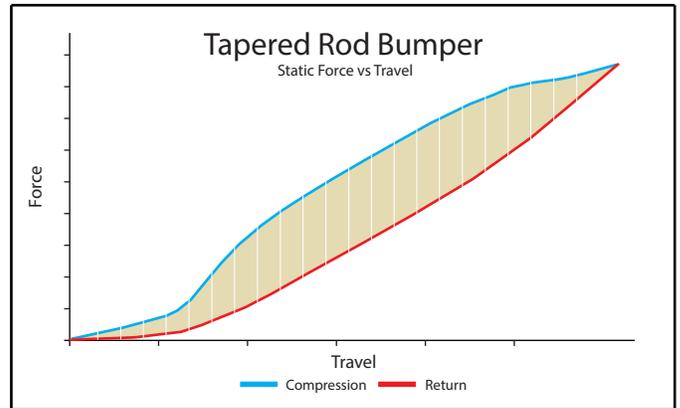
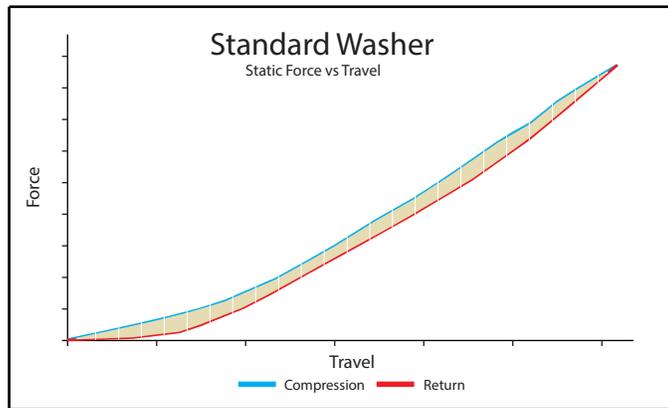
The material we use to produce the TRB's is a durably engineered polymer from a high flexure modulus family of polyesters. This means the bumpers will perform over a wide temperature range, with a great fatigue life, and corrosive environments have little to no effect on the bumpers. The material used to engineer these tapered rod stops will outlast any urethane stop by 20 times and can be used in many applications where oils and other chemicals that would normally break down urethane or rubber stops and bumpers.

SPECIFICATIONS OF TRB-20 SERIES™

Cylinder		Tapered Rod Bumper					
Bore	Rod	O.D. (inch)	I.D. (inch)	Thickness (inch)	Max Force (lbs)	Max Deflection (inch)	Capacity (in/lbs)
1/2	1/4	0.45	0.30	0.100	40	0.125	2
3/4	5/16	0.70	0.36	0.125	50	0.140	3
7/8	5/16	0.82	0.36	0.180	60	0.170	5
1	1/2	0.95	0.55	0.180	75	0.200	7
1 1/8	5/8	1.00	0.68	0.180	100	0.220	10
1 1/2	5/8	1.38	0.68	0.180	100	0.250	20
2	5/8	1.88	0.68	0.220	500	0.300	50
2 1/2	5/8	2.38	0.68	0.220	500	0.350	75
3 1/4	1	3.13	1.05	0.250	750	0.400	150
3 1/2	1	3.38	1.05	0.250	1000	0.450	200
4	1	3.88	1.05	0.250	1200	0.500	300

Note: Special O.D./I.D. combinations are available to fit over cushion sleeves, non-standard rod diameters, and/or special applications.

COMPARATIVE ANALYSIS OF TEMAX TRB-20™



APPLICATIONS OF TRB-20™

TRB-20 Series Tapered Bumper Rods are especially suited for high speed cylinder applications as internal end-stops or external stops for double-rod end cylinders. They also work well for linear motion devices.