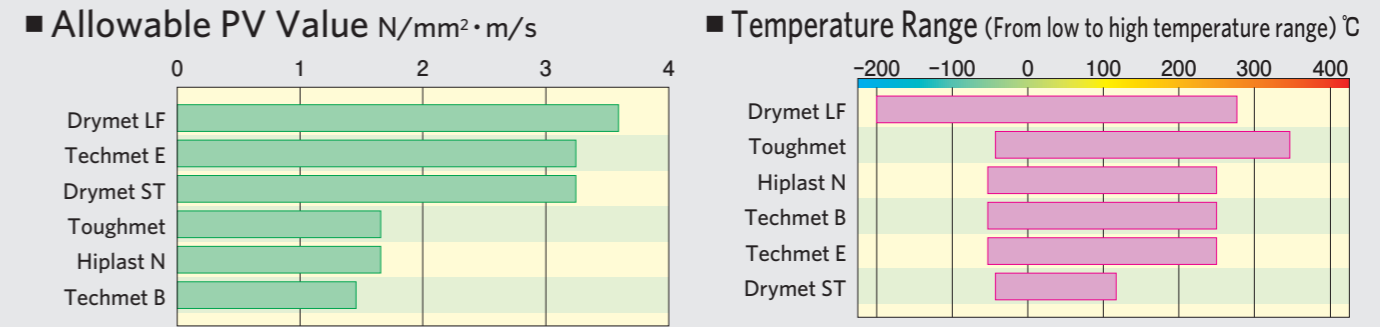
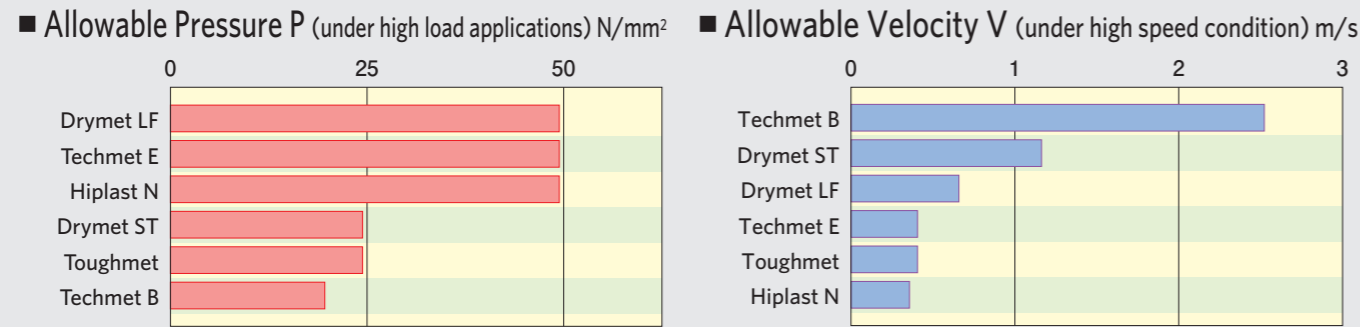


Selection Guide



These graphs show the standard characteristics of bearings that can be used under self-lubricating conditions.

Scope of Application

The value shown below are obtained in shaft rotation condition in the atmosphere.

Product	Product Name	Allowable max pressure P N/mm ² {kgf/cm ² }	Allowable max velocity V m/s {m/min}	Allowable max PV value N/mm ² · m/s {kgf/cm ² · m/min}	Temperature range °C {°F}
	Oiles Drymet ST	24.5 {250} ※ 137 ※ {1,400}	1.15 {69}	3.25 {1,990}	-40 ~ +120 {-40 ~ +248}
	Oiles Drymet LF	49.0 {500} ※ 137 ※ {1,400}	0.65 {39}	3.60 {2,200}	-200 ~ +280 {-328 ~ +536}
	Oiles LF Guides	Allowable weight W N{kgf} dynamic 235~1,323 {24~135} static 706~3,969 {72~405}	0.65 {39}	3.60 {2,200}	-30 ~ +130 {-22 ~ +266}
	Oiles Techmet B	19.5 {199} ※ 137 ※ {1,400}	2.50 {150}	1.45 {887}	-50 ~ +250 {-58 ~ +482}
	Oiles Techmet E	49 {500} ※ 137 ※ {1,400}	0.5 {30}	3.27 {2000}	-50 ~ +250 {-58 ~ +482}
	Oiles Toughmet	24.5 {250} ※ 49 ※ {500}	0.40 {24}	1.65 {1,010}	-40 ~ +350 {-40 ~ +662}
	Oiles Toughmet D	50 {510} ※ 100 ※ {1,020}	Periodic lubrication 1.00 {60} Oil lubrication 5.00 {300}	Periodic lubrication 3.26 {2,000} Oil lubrication 4.89 {3,000}	-40 ~ +150 {-40 ~ +302}
	Oiles Hiplast N	49.0 {500}	0.35 {21}	1.65 {1,010}	-50 ~ +250 {-58 ~ +482}
	Oiles Hiplast E	49.0 {500}	0.35 {21}	1.65 {1,010}	-50 ~ +250 {-58 ~ +482}

※ Static bearing pressures defined: Bearing pressures in applications with no motion or very small motion (≤0.0017m/s{0.1m/min}).

= Conductive

Caution

- The allowable values shown below are obtained when tested in the standard bearing test methods of Oiles Corporation. Please contact us when you use products under conditions over the allowable values.
- Conditions differ with machines. Consider that these values are for reference only.

Lubrication	Atmosphere	In oil	In water	In seawater	In chemical	Corrosive condition	Standard part codes	Product outline	Product detail	Dimensions
Dry	○	○	×	×	×	×	Drymet ST Bushings ——— 70B Washers ——— 70W Plates ——— 70P	P.51	P.141	P.145 P.149 P.150
Dry	○	○	△	×	△	△	Drymet LF Bushings ——— LFB Flange bushings — LFF Washers ——— LFW Plates ——— LFP Drymet LF(t0.5) Flange bushings — LFCF	P.51	P.151	P.155 P.159 P.161 P.163 P.162
Dry	○	○	×	×	△	△	LF Guides ——— LFG	P.51	P.164	P.165
Dry	○	○	×	×	×	×	Custom-made Techmet Bushings ——— TCB	P.52	P.166	P.168
Dry	○	○	×	×	×	×	Custom-made	P.52	P.169	—
Dry	○	○	△	△	△	△	Toughmet Bushings ——— TMB	P.52	P.170	P.171
Periodic lubrication	○	○	×	×	×	×	Toughmet D Bushings ——— TMDB Plates ——— TMDP	P.53	P.173	P.175 P.177
Oil lubrication	○	○	×	×	×	×				
Dry	○	○	△	△	△	△	Hiplast Flange bushings ——— HPF	P.53	P.179	P.182
Dry	○	○	△	△	△	△	Custom-made	P.53	P.179	—

○ = usable △ = usable under some condition × = unusable — = N/A, For detail, please refer to page 369.

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Product Information

Plastic Bearing

Multi-layer Bearing

Metallic Bearing

Air Bearings

Slide Shifter

Technical Information

Corporate Profile