



# ***SPLIT STAINLESS MOUNTED BEARINGS***



## **Greaseless and non-corrosive split bearings directly interchange with industry-standard 1-piece pillow blocks**

- Stainless steel housings and split Poly-Round® inserts are solid construction for maximum clean-ability and strength
- Dimensionally interchanges with industry-standard pillow blocks
- Poly-Round® plane bearings do not require grease
- Low maintenance
- Non-corrosive
- Sanitary



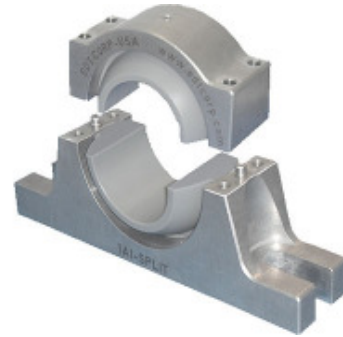
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Severe service locations where grease-less Poly-Round® bearings are well-suited:

- high or low temperatures
- submerged (water, chemicals, processing fluids)
- washdown
- steam
- oscillating motion
- frequent start-stop cycles
- impact or vibration
- high load
- difficult-to-maintain locations
- jack shafts with center bearings



### APPLICATIONS TO AVOID

Plane bearings are **not** recommended for:

- high speed devices (fans, pumps, table top conveyors)
- high tension applications (V-belt drives, flat belt conveyors, urethane belts)
- overhung loads (shaft mounted gear reducers)
- trunnion applications

For locations where plane bearings are not recommended, choose a ball bearing (one-piece, not a split insert).

- EDT offers:
- stainless ball bearings - regreaseable
    - solid lubricated (choice of two solid lubricants depending on application)
  - standard ball bearings - large shaft size units that are corrosion-resistant and solid lubricated
    - solid lubricated for hot, dry locations (ie: ovens not subject to washdown)

### MATERIAL SELECTION CHART

ALL-ROUND® Bearing Materials	PV (1) Limit	Maximum Speed V (SFM)	Maximum Loading P (PSI)	Continuous Operating Temp.	Performance in Moisture		ΔT Dimensional Stability w/Temp Change	Chemical Resistance	Abrasion Resistance	Impact Resistance	USDA/FDA Contact Approval
					Washdown	Submerged					
PA UHMW white	1,000	50	800	150°F	Excellent	Excellent	Poor	Excellent	Abrasion applications are very unpredictable. Each application must be tested for abrasion resistance.	Excellent	Direct
NA grey	6,000	350	2,000	220°F	Excellent	Good	Fair	Fair		Excellent	Incidental
FA white	6,000	350	1,000	500°F	Excellent	Excellent	Poor	Excellent		Fair	Direct
QF black	60,000	400	6,000	500°F	Excellent	Excellent	Excellent	Excellent		Fair	Incidental

(1) PV limits are shown for unlubricated radial bearing applications. Low temperature and/or cool submerged installations may permit PV limits up to 2x higher. For high ambient temperatures including warm submerged installations, calculated PV's must be reduced.



### DESIGN ASSISTANCE

A completed **Bearing Design Checklist** will assist EDT in helping you select the most appropriate interchange for your radial bearing needs.

EDT's **Bearing Design Checklist (BDC)**

can be submitted electronically or printed from EDT's website:

[www.edtcorp.com](http://www.edtcorp.com) > *Design Assistance* > **Bearing Design Checklist**