TIMKEN



TIMKEN SOLID-BLOCK MOUNTED SPHERICAL ROLLER BEARING SECONDARY SEALING



SECONDARY SEALS

In many circumstances, bearings become damaged in housings due to premature primary seal wear. This is usually the result of harsh operating environments or lubrication issues. Timken offers secondary sealing options that provide an additional barrier to protect the primary seal. These economical secondary seals and covers are easily outfitted on virtually all solid-block mounted bearings.

STEEL COVERS

Labyrinth Seals – Non-Contacting, Non-Purging, All Speeds

A labyrinth seal uses a winding passageway to accomplish a reduction in flow instead of trying to form a seal with a single strong barrier. Seal friction and wear is reduced.

T Seal – This seal, which is used in the open-end steel covers, consists of a DuPont Teflon ring
pressed onto the shaft that floats between two pieces of formed steel to accommodate misalignment. Developed for higher-speed applications involving dirty conditions or moisture-affected
areas, it is able to operate at higher temperatures and is impervious to most chemicals, while
avoiding shaft damage.

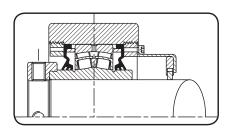
URETHANE COVERS

DR Triple-Lip Secondary Seal – Low Speeds

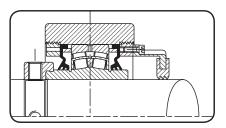
The DR seal is the standard triple-lip seal adapted for use on the open-end covers and piloted flange cartridge backing plates (HSY). This seal can move within the cover or backing plate opening to accommodate misalignment while maintaining full contact to the shaft for positive sealing.

VR Viton Ring Secondary Seal – High Speeds

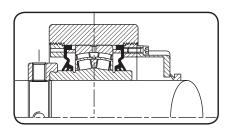
The VR seal, made of nitrile rubber, rides on the shaft and seals against the open-end covers and flange block backing plates (UFP).



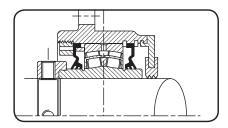
Open-end steel cover with T seal.



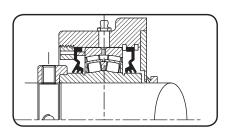
Open-end urethane cover with DR seal.



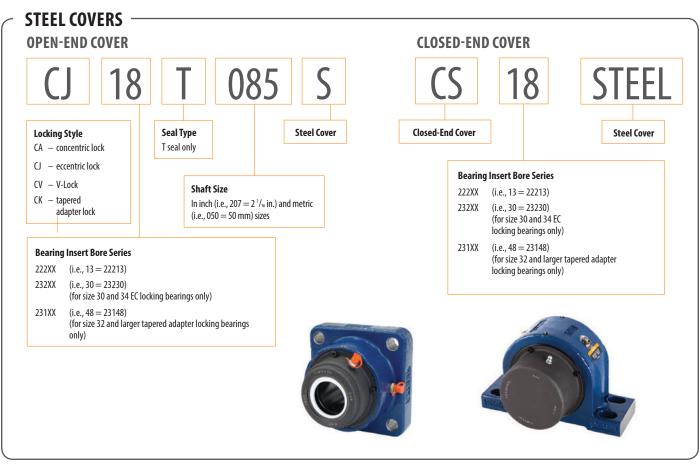
Open-end urethane cover with VR seal.

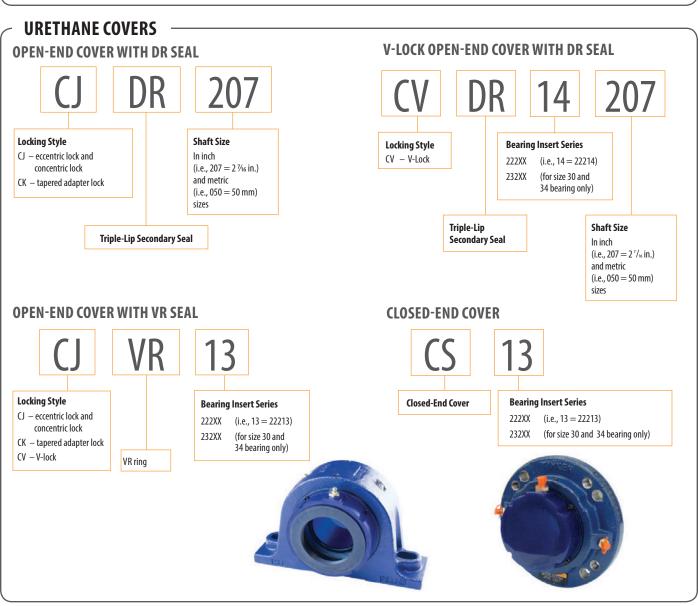


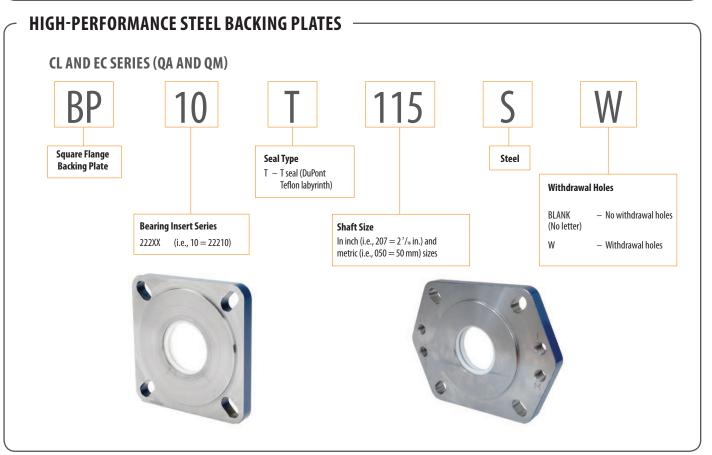
HSY backing plate with DR seal.



UFP backing plate with VR seal.







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The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related industrial motion rebuild and repair services.