

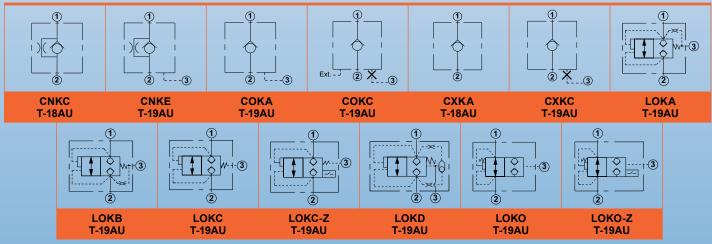
Announcing . .

NEW HIGH FLOW SERIES 4*PLUS* CARTRIDGE VALVES and Optimized Cavity

- Based on the successful performance of Sun's standard Series 4 cartridges.
- New high flow performance: 200 gpm (760 L/min.), less than 100 psi (7 bar) drop.
- Same high pressure performance: 5000 psi (350 bar).
- Flow performance of Series 4 PLUS valves:
 - Maximized in the new optimized cavity, which includes an undercut
 - Improved over standard Series 4 valves in the standard cavity



Series 4 Plus Check Cartridges and Logic Elements available . .



For our full range of Cartridge and Manifold products, visit the Sun website: www.sunhydraulics.com

Benefits

LOWER COST

- Screw-in style more economical than slip-in style
 - Cartridges less expensive
 - Cavity and manifold less expensive
 - Readily available form tools
 - Simplified cavity machining
- More convenient
 - Well known screw-in technology
 - Same technology as balance of circuit
 - One stop sourcing
- Easy and simple installation
 - Single cartridge versus insert and cover
- Replaces multiple screw-in cartridges
- Simplified manifold design

HIGHER PERFORMANCE

- Saves energy
 - Lower pressure drop
- Higher flow
 - 50% to 80% more flow than Series 4
 - Compares to DIN 25 and 32
- Less turbulence thus lower noise
- Durability compares to other Sun valves
- Pressures to 5000 psi (350 bar)
- Corrosion resistant versions





Standard

Series 4.

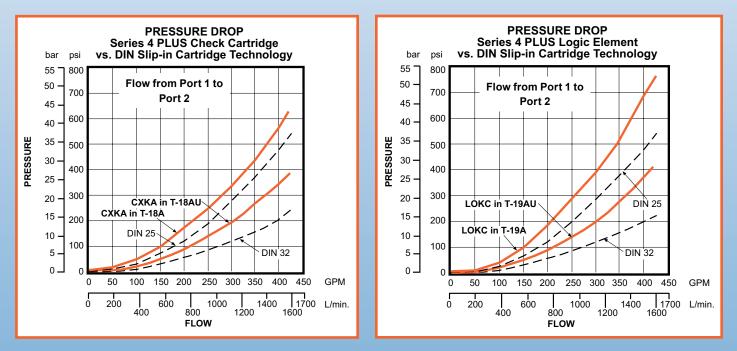
3 Port

Cavity

Standard Series 4, 2 Port Cavity C

Series 4 PLUS, 2 Port Optimized Cavity Series 4 PLUS, 3 Port Optimized Cavity





Benefits

REDUCED SIZE

- Smaller manifold
 - Reduced face area compared to slip-in technology
 - Reduced volume compared to slip-in technology
 - Compares to Sun Series 4
 - One Series 4 Plus may replace two Series 4

BETTER AVAILABILITY

- Sun Deliverv
 - · Expedited delivery service of one to three days
 - Standard service four weeks for best pricing
- Sun Distributors
 - Worldwide Authorized Distributors provide local customer service, technical support, and inventory
- Corrosion resistant versions

Applications

Balers Compactors Construction industry Cranes Drilling rigs Extrusion presses Fiberglass compression molding presses

Forging presses Foundry machinery Gas industry Heavy industry High capacity

wheel loaders Marine industry

Metal shears

Mining industry

Offshore oil platform stabilization

Off road mine haul trucks

Oil industry

Plastic injection molding machines

Power metal presses Presses Shears Steel industry Testing Waste balers

Significant Advantages for Sun Customers



Standard Series 4 Check Cartridge in standard cavity





Standard Series 4 Logic Element in standard cavity in optimized cavity

Series 4 PLUS Logic Element

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Sun's Custom Valvepaks are available in any configuration, reduce size and cost of hydraulic systems, take up less space, use fewer components, and have less potental leakage.



All Sun cartridges are rated to 5000 psi (350 bar) operating pressure.

Manifolds Bodies:

Grade 6061-T6 Aluminum

3000 psi (210 bar) material pressure rating. Grade 65-45-12 Ductile Iron 5000 psi (350 bar) material pressure rating.

Worldwide manufacturing operations for on time delivery!



<u>sun</u> hydraulics

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The quality of Sun Hydraulics' manufacturing plants has been registered to the International Organization for Standardization ISO 9001: 2008 Series Standards for quality.

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