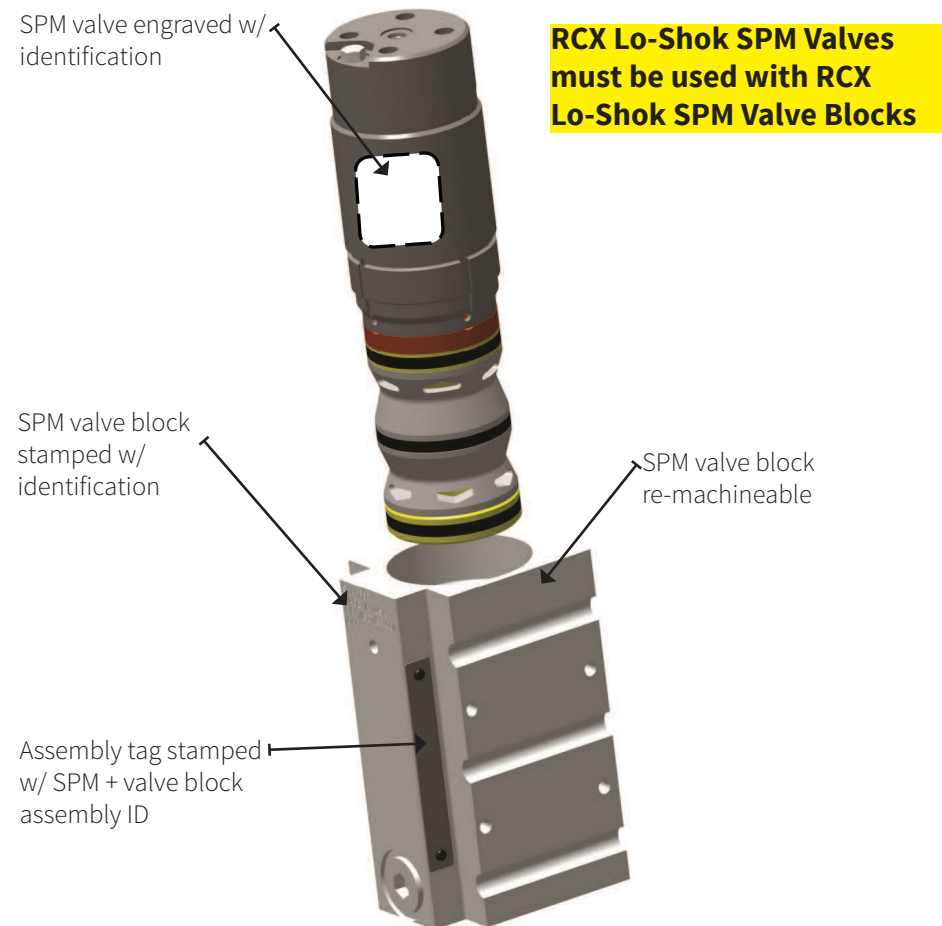


## RCX Lo-Shok SPM Valve Overview

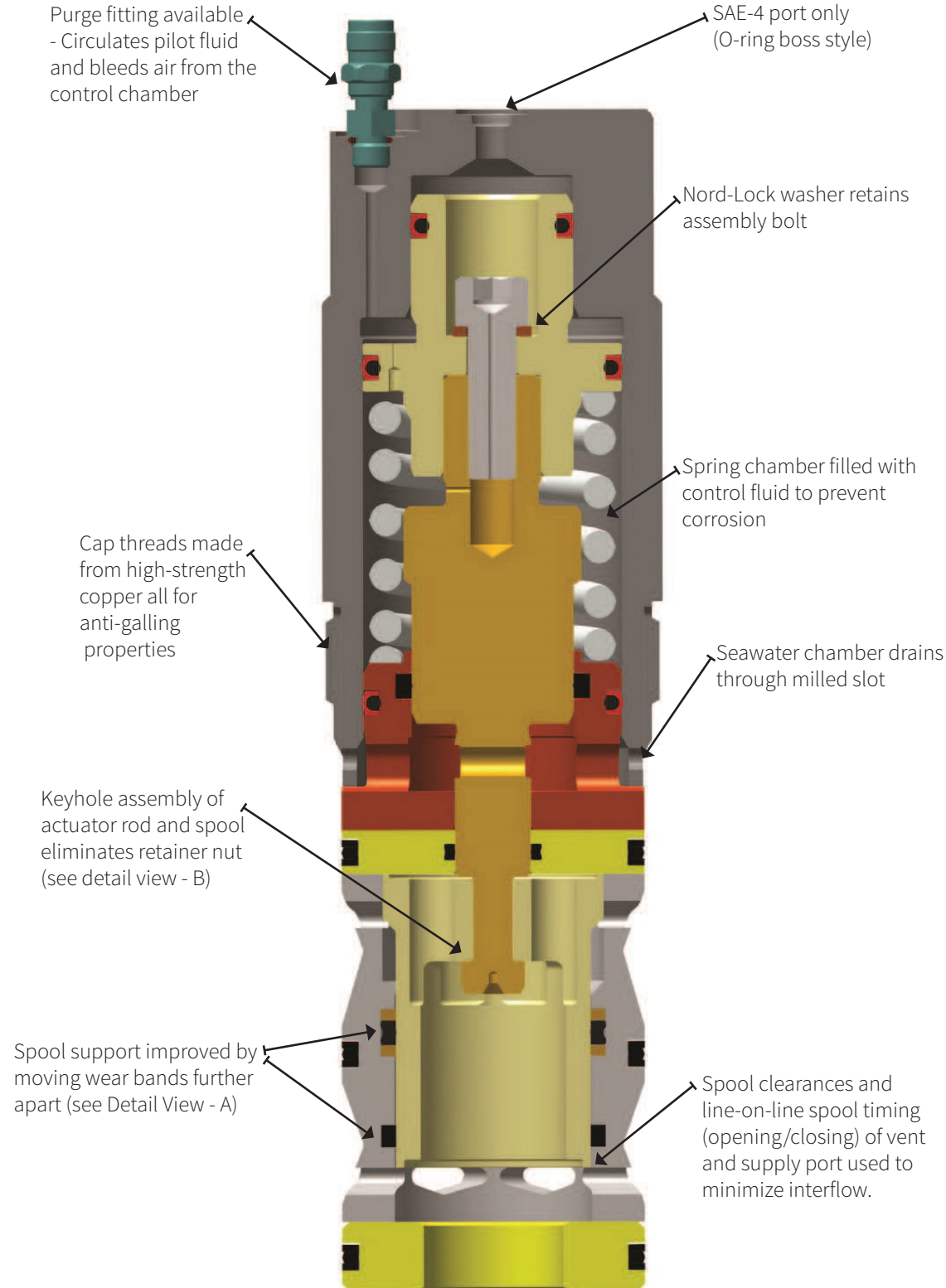
Sub Plate Mounted (SPM) valves are 3-way, 2-position fluid control valves. SPM valves are used throughout National Oilwell Varco (NOV) control systems to direct hydraulic fluid within hydraulic circuits.

- NOV RCX Lo-Shok SPM valve assemblies have been created to address industry requests for a more robust and reliable valve.
- RCX Lo-Shok SPM valves are direct circuit replacements with matched flow rates. Closing times are not affected.
- RCX Lo-Shok SPM valves utilize improved materials and are designed to reduce hydraulic shock (water hammer). Test data provided on sheet 2.
- RCX Lo-Shok SPM valves must be used with RCX Lo-Shok SPM valve blocks. RCX Lo-Shok SPM valve blocks may be re-machined to NOV specifications. Non-RCX Lo-Shok blocks cannot be re-machined.

## RCX Lo-Shok SPM Valve Components

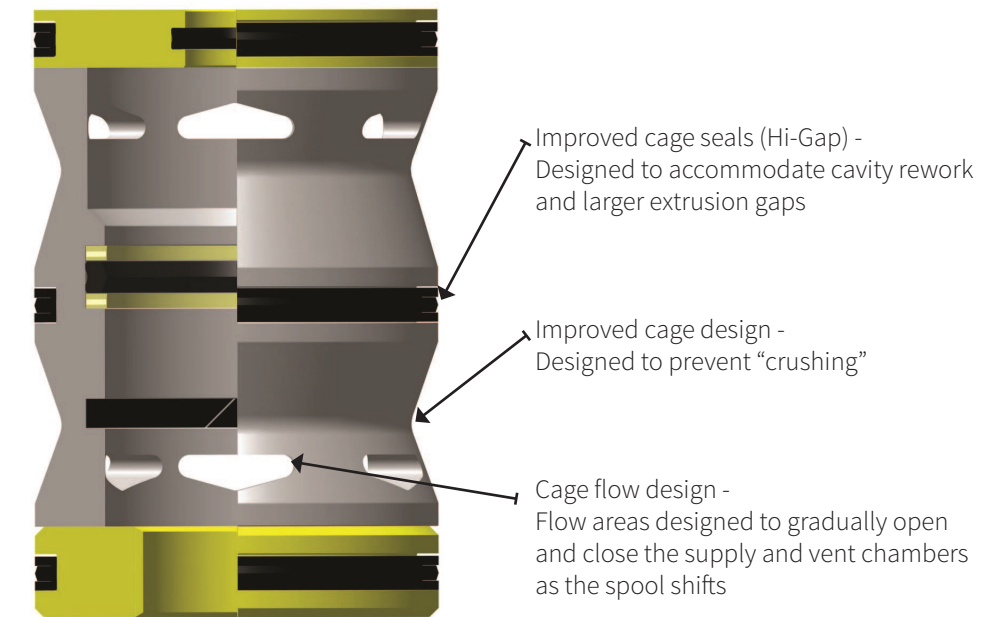


## Key Benefits

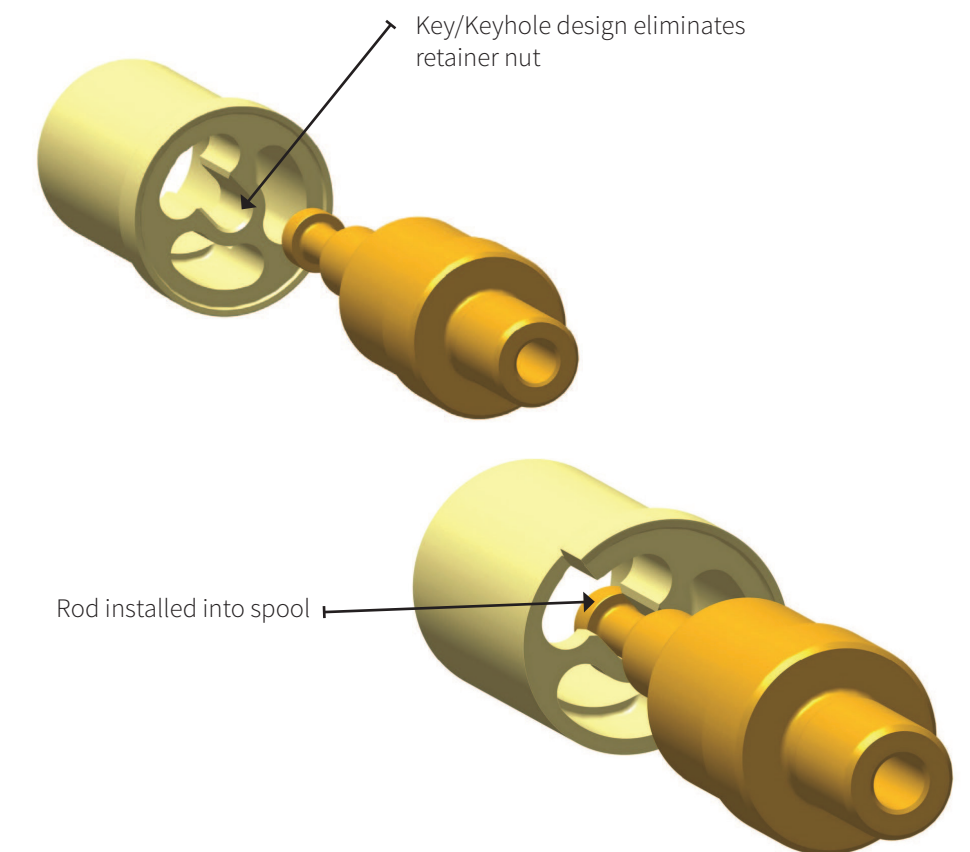


RCX Lo-Shok SPM — Cross Section

## Detail View - A



## Detail View - B



**Legend:**

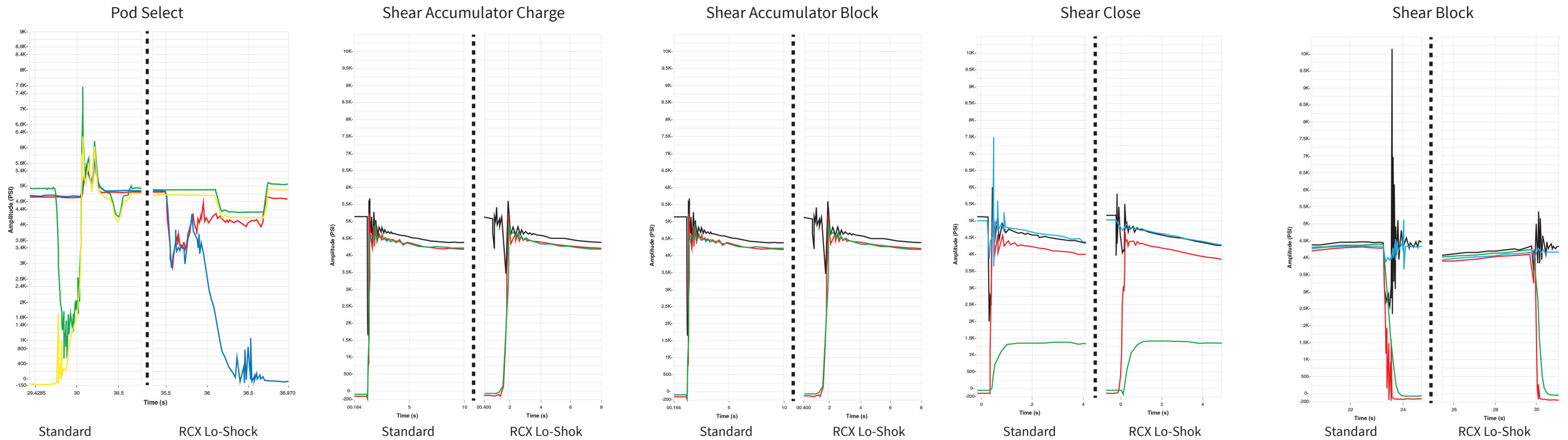
<span style="color: green;">█</span>	Supply Port - Current SPM -Yellow pod
<span style="color: yellow;">█</span>	Work Port - Current SPM -Yellow pod
<span style="color: red;">█</span>	Supply Port - Lo-Shok SPM - Blue pod
<span style="color: blue;">█</span>	Work Port - Lo-Shok SPM - Blue pod

**Legend:**

<span style="color: black;">█</span>	Pod Manifold Supply
<span style="color: red;">█</span>	Shear Accumulator Charge @ SPM Work Port
<span style="color: green;">█</span>	Shear Accumulator Charge @ Accumulators

**Legend:**

<span style="color: black;">█</span>	Pod Manifold Supply
<span style="color: red;">█</span>	HP Upper Shear Close @ SPM Work Port
<span style="color: green;">█</span>	HP Upper Shear Close @ Operator Door
<span style="color: blue;">█</span>	LMRP Accumulators @ Accumulators



RCX Lo-Shok SPM Assemblies - Part Number and Description							
Valve size	Valve Configuration	Valve + Block Assembly P/N	Valve Application	Valve Only P/N	Seak Kit P/N	Repair Kit P/N	**Block Only P/N
1 1/2"	NC (Normally Closed)	11448757-001	FRS	11394478-001	11444594-001	11444807-001	11327183-001
		11448766-001	Non-FRS				11331583-001
	NO (Normaly Open)	11449450-001	Pod Select	11395270-001	11444594-001	11444818-001	11398673-001
	NCB (Normally Closed Bi-Directional)	16562565-001	Stack Mounted (Accumulator isolation)	11394477-001	11444594-001	11444813-001	16557295-001
	NOPB (Normally Open, Pressure Balanced)	-	*Rigid Conduit Manifold	11450588-001	-	-	-

\* Rigid Conduit Manifold must be replaced as a unit.  
 \*\* For blocks not listed, contact RA-AftermarketUpgrades@nov.com for information and quotations

### RCX Lo-Shok SPM - Identifying Block Style

