PLASTIC AC System Valves

Envisioned, engineered and manufactured by Schrader Pacific USA



OE high and low side plastic line AC application designs

ADVANTAGES

Option A - Metal Core Thread, Plastic Port

- Serviceable core
- Utilizes valve cores currently used in vehicles
- Schrader supplied valve core installed, leak tested and pin height confirmed in port.

Option B - Metal Core Thread, Metal Port

- Serviceable core
- Utilizes valve cores currently used in vehicles
- Schrader supplied valve core installed, leak tested and pin height confirmed in port.
- Robust metal port

Option C - Plastic Primary Seal Valve

- Cost effective
- 25-year proven design
- Leak test verified integrated valve

ADVANTAGES

Option D - Threaded Plastic Primary Seal Valve

- Serviceable valve port
- 25-year proven design
- Leak test verified integrated valve

Option E - Primary Seal Valve, Plastic Thread Connection

- Cost effective
- Serviceable valve port
- 25-year proven design
- Leak test verified integrated valve
- Robust metal port

Option F - Primary Seal Valve, Metal Thread Connection

- Serviceable valve port
- 25-year proven design
- Leak test verified integrated valve
- Robust metal port
- Large thread allows wide range installation torque
- No seal contamination during assembly





SCHRADER PACIFIC PLASTIC AC VALVE DESIGN COMPARISON

Option A Metal Core Thread, Plastic Port



Option B Metal Core Thread, Metal Port

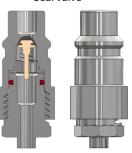


Option CPlastic Primary Seal Valve

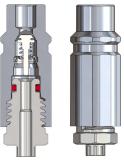




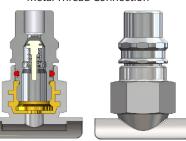
Option DThreaded Plastic Primary Seal Valve



Option EPrimary Seal Valve, Plastic Thread Connection



Option F Primary Seal Valve, Metal Thread Connection



	Relative Cost	Risk	Severity	Occurance	Detection	RPN	Total RPN	Serviceable Core?
Option A	\$\$	Leakage between Metal & Plastic	5	8	4	160	392	Υ
		Coupler damage to plastic port	6	8	4	192		
		Valve Core Leakage	5	2	4	40		
Option B	\$\$	Leakage between Metal & Plastic	5	8	4	160	248	Υ
		Coupler damage to metal port	6	2	4	48		
		Valve Core Leakage	5	2	4	40		
Option C	\$	Coupler damage to plastic port	6	8	4	192	292	N
		Plastic Primary Seal Valve Leakage	5	5	4	100		
Option D	\$\$	Coupler damage to plastic port	2	8	4	64	356	Υ
		Plastic Primary Seal Valve Leakage	5	5	4	100		
		Plastic thread failure	6	8	4	192		
Option E	\$	Coupler damage to metal port	2	2	4	16	288	Y
		Primary Seal Valve Leakage	5	2	4	40		
		Plastic thread failure	6	8	4	192		
		Plastic ID O-ring Gland Leakage	5	2	4	40		
Option F	\$\$	Coupler damage to metal port	2	2	4	16	216	Υ
		Primary Seal Valve Leakage	5	2	4	40		
		Plastic OD O-ring Gland Leakage	5	8	4	160		

