

## **SYNTH VALVE GREASE MP-601** (Multipurpose Synthetic Valve Grease)

(Multipurpose synthetic valve grease for all kinds of Wellhead, Xmas tree valves, gate & plug valves, chemically resistance, very good metal surface adhesion properties even when subjected to very high temperature & high pressure upto 15000 psi)



#### **DESCRIPTION**

SYNTH VALVE GREASE MP-601 is a specially formulated multipurpose synthetic grease in valve lubrications for all kinds of gate and plug valves used across Petroleum Industries. The grease is made from fully specialized synthetic base oil for extraordinary chemical resistant to all kinds of Petroleum Industries in an inorganic thickener incorporated with special extreme pressure additives creates a passive film on friction surfaces before friction occurs with antioxidants, anti-corrosion, rust inhibitors. The grease has very good surface property adhesion properties for all metals surfaces even when subjected to very high pressure upto 15000 psi.

#### **APPLICATIONS**

SYNTH VALVE GREASE MP-601 is used in all kinds of Wellhead, Xmas tree valves, gate and plug valves used in crude oil, natural gas production, sour crude, gas, acids, sand slurries and difficult condensates pipe line applications.

#### PERFORMANCE BENEFITS

- Excellent highly chemical resistance, H2S / HCL corrosion resistance, hydrocarbon resistance, water & steam resistance to changes in consistency at high temperatures. It will not harden
- Excellent adhesive properties to remain in the seal plug valve cavity under high temperature and pressure upto 15000 psi conditions.
- Maintains viscosity at high temperatures and does not harden, high film strength,
- Good low temperature pumpability & Can greatly extend re-greasing intervals.
- Excellent extreme pressure & wear resistance.
- Low oil separation even at elevated temperatures.
- Reduced maintenance costs due to possible lifetime lubrication and improving valve reliability.
- Protection against rust and corrosion, very good oxidation resistance
- Multi-purpose grease or all kinds of gate and plug valves used across Petroleum Industries.
- Wide range of operation temperature -40°C to 250°C (-22°F to 482°F).

Chemically Resistance: Extraordinary resistant to Crude oil, Natural gas, Diesel & Petrol fuel, H<sub>2</sub>S, CO<sub>2</sub>, Salt water/Brines, Steam & Condensates, 28% frac acid (HCL), Produced sand & Drilling muds,

# **SPECIFICATIONS**

Test method	Typical yalvo	
	Typical valve	
-	1 & 2	
Visual	Smooth Homogeneous,	
	Tacky Smooth & Adhesive	
Visual	Blackish/Grey	
-	Inorganic	
	Anti-corrosion, Anti-Oxidant, Anti-Rust,	
-	Special EP, Friction Modifiers,	
	H2s inhibitors etc	
	Specialized chemical resistant synthetic	
-	polymer base oil for all kinds of	
	Petroleum Industries	
-	Molybdenum disulfide	
STM D2265 / IP 396	Non-Melting	
ASTM D217 / IP 50	275-305	
STM D2596 / IP 239	+800	
<b>ASTM D 2266</b>	0.405	
<b>ASTM D4048</b>	<b>1</b> a	
ASTIVI D4048		
IP 220	0-0	
IP 121	0.12	
-	-28°C	
	Pass,	
СТМ	Fully Resistance (No Leakage)	
-	-40°C to 250°C (-40°F to 482°F)	
ļ	Visual STM D2265 / IP 396 ASTM D217 / IP 50 STM D2596 / IP 239 ASTM D 2266 ASTM D4048 IP 220 IP 121 -	







#### **Solution:**

SYNTH VALVE GREASE MP-601 synthetic valve sealant with a special thickener and specialized synthetic chemical resistant polymer base oil combination for all kinds of petroleum industries.

- Superb resistance to hydrocarbons, H₂S, CO₂ & HCL.
- Excellent sealing ability.
- Wide range of operation temperature -40°C to 250°C (-22°F to 482°F).

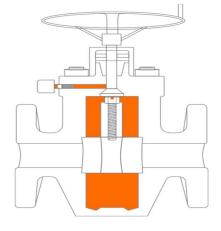
### **Testing Plan**

- All valves are cleaned inside out to remove the grease sealant left over.
- Water is injected inside the gate valve assembly (Simulation of actual scenario at off-shore facility) at a specific rate.
- Injection of SYNTH VALVE GREASE MP-601 sealant and then re-running the pressure test.
- Recording of data using digital pressure gauge.

### **Hydrocarbon Resistance Test**







**SYNTH VALVE GREASE MP-601** 

**Competitor Product** 

SYNTH VALVE GREASE MP-601 lube points

#### SYNTH VALVE GREASE MP-601 PERFORMANCE

Property	Description	Before Sealant	After Sealant
McEvoy 2-1/16	Seal	Valve is passing from 0 psi to test	Pressure maintained to
		pressure of 4400 psi in 7 mins.	4400 psi for 15 mins.
FMC 3-1/8	Seal	Valve is passing from 0 psi to test	Pressure maintained to
		pressure of 3700 psi in 5 mins.	3700 psi for 15 mins.
Cameron FL 2-1/16	Seal	Valve is passing from 0 psi to test	Pressure maintained to
		pressure of 3400 psi in 10 mins.	3400 psi for 15 mins.

#### **RESULTS**

- SYNTH VALVE GREASE MP-601 successfully sealed 3 different OEM valves.
- It was able to seal the valves successfully within the time frame during the trial period.

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