

## Synthetic lubricants for petrochemical valves

### Description

MOLYSLIP PVG-679 AND PVG-679WG are fully synthetic greases that have been specifically formulated for the lubrication of gate and plug valves operating in the petrochemical industry. The combination of synthetic base fluid, solid lubricants, corrosion inhibitors and stabilisers ensure that PVG-679 and PVG-679WG have maximum resistance to chemicals encountered in the exploration and production of crude oil and gas. They act as lubricants to the valve components and will assist in maintaining or regaining sealing performance to minimise leakage.

Conventional valve lubricants can be dissolved or degraded by materials such as hydrocarbon solvents, gas condensates, H<sub>2</sub>S and mineral acids such as HCl. Should this occur the seals and other valve components can become dry - resulting in higher friction and wear and increased actuation torque. In addition voids left in the valve cavity can lead to further build-up of corrosive substances or other contaminants – resulting in further damage, leakage and ultimately seizure.

PVG-679 and PVG-679WG possess outstanding resistance to most chemicals used in the oil and gas exploration and production process. They will lubricate and protect valve components ensuring smooth, reliable operation and resist wash-out minimizing cavity contamination.

PVG-679 is suitable for use on most gate and plug valves across a wide operating temperature range of -20°F to 450°F (-29°C to 232°C). The operating temperature range for PVG-679WG is -40°F to 300°F (-40°C to 149°C).

Note: PVG-679 and PVG-679WG are not recommended for use on floating seat ball valves. The recommended product is MOLYSLIP BVL

### Features and benefits

- Outstanding resistance to exploration and production chemicals (hydrocarbons, gas condensate, H<sub>2</sub>S, mineral acids etc)
- Adhesive, tenacious film ensures maximum lubrication and protection
- Excellent lubrication and sealing properties
- Wide operating temperature range

# Technical data

## PVG



### Instructions for use

MOLYSLIP PVG-679 and PVG-679WG can be applied manually or via a pressure applicator. Minimum application temperatures:

PVG-679	+30°F (-1°C)
PVG-679WG	-10°F (-23°C)

As with all greases used for the first time, check compatibility with the grease used previously and if necessary purge prior to application.

### Packaging

22kg pail and 220kg drum

### Technical data (typical values)

Property	Test method	PVG-679	PVG-679WG
Appearance	-	Smooth grey/black grease	Smooth grey/black grease
Worked penetration	IP50	265-295	265-295
NLGI classification	-	2	2
Drop point	IP132	>300°C	>300°C
4-ball weld load	IP239	700kg	700kg
Density @ 20°C	MSTM 23	1.30 g.cm <sup>3</sup>	1.30 g.cm <sup>3</sup>
Operating temperature range	-	-29°C to 232°C	-40°C to 149°C

### Storage

Store MOLYSLIP PVG-679 and PVG-679WG out of direct sunlight. Storage temperature should be controlled to between 5°C and 35°C.

The product information in this publication is based on knowledge and experience at the time of printing. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.  
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