YOUR RELIABLE PARTNER

- ENERGY SAVING BITUMEN TANKS

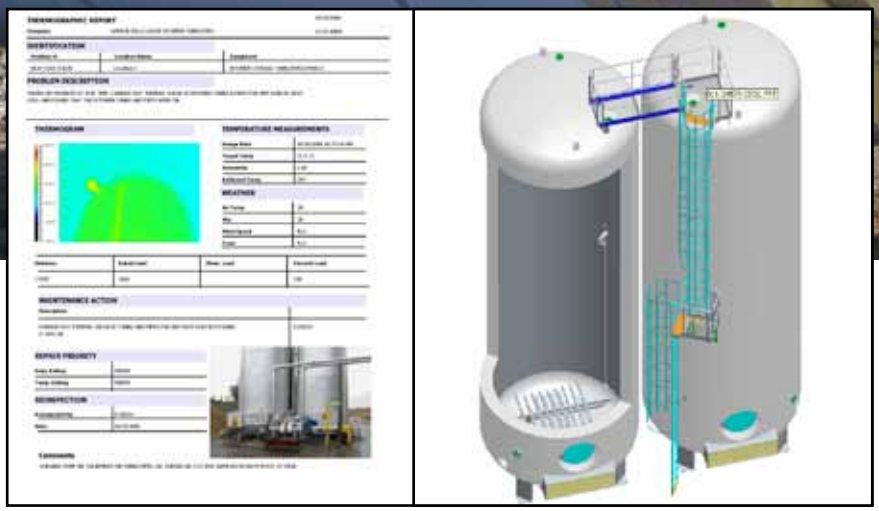
KVM BITUMEN PUMP

Dosing pumps

The KVM free standing bitumen pump is directly driven and the pump / motor unit is supported by a steel structure which is normally situated next to the bitumen tank. The pump is provided with trace heating and a thermostatic control unit. The pump shaft is furthermore sealed with mechanical sealings so any significant spillage is avoided.

The pump can serve more bitumen tanks via connecting pipe work and valves. The free standing pump can be used with a single trace heated and insulated bitumen dosing line or a double bitumen dosing line with or without insulation. The KVM standard dosing line is a 3" pipe and the standard insulation is 50 mm thick and sheeted with alu-zink plate.

Technical data	Dosing pumps		Filling pumps
Type	**KVM HD 5**	**KVM HD 6**	**KVM HD 8**
El - motor size	7,5 kW	15,0 kW	15,0 kW
Electric voltage	400 / 230 VAC	400 / 230 VAC	400 / 230 VAC
Power trace heating	1050 W	1050 W	1050 W
Nominal capacity	400 l/min.	617 l/min.	950 l/min.
Max. speed 50 Hz	960 RPM	960 RPM	960 RPM
Inlet / Outlet dim.	DN 65 (2,5")	DN 80 (3,0")	DN 100 (4,0")
Max. viscosity	1000 cSt	1000 cSt	1000 cSt
Nominal viscosity	400 cSt	400 cSt	400 cSt
Shaft sealing	Triple lip seal cartridge	Triple lip seal cartridge	Triple lip seal cartridge
Max. running pressure	10 bar	10 bar	10 bar
Safety valve setting	6 bar	6 bar	6 bar
Weight	290 kg	350 kg	400 kg

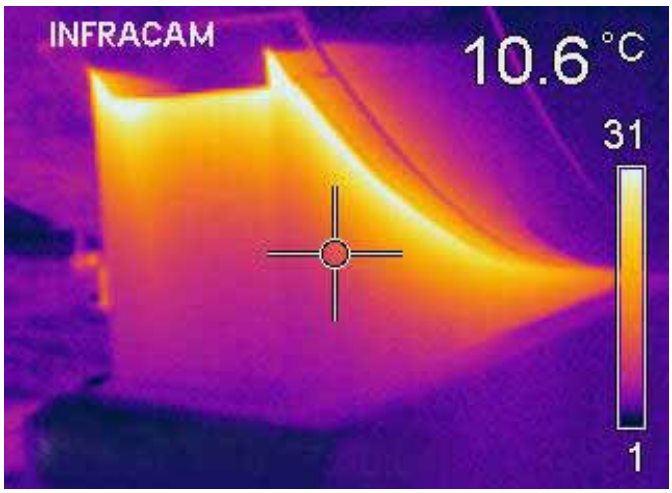


Thermo-graphic report

No energy loss

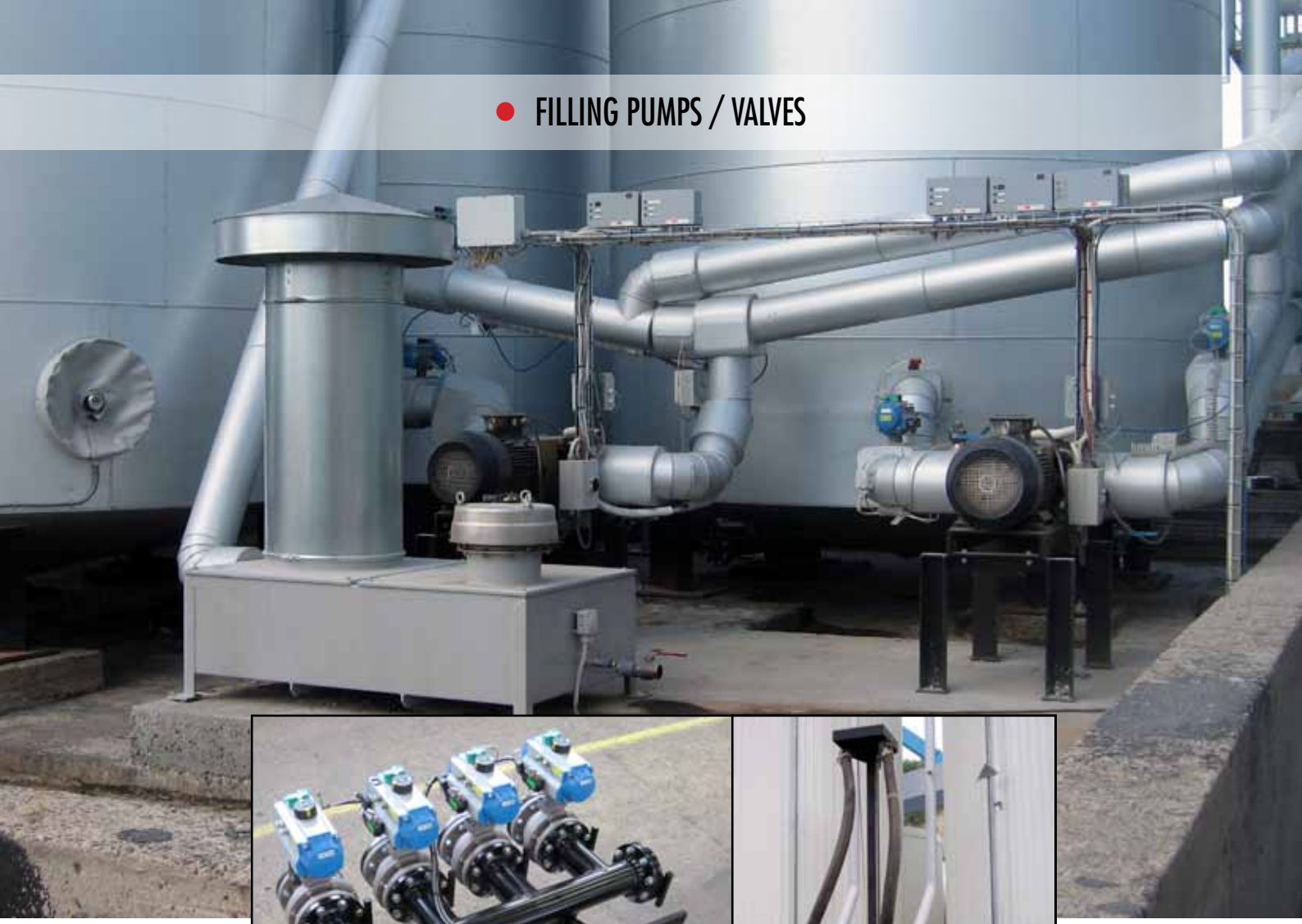
Store the GREEN way in KVM bitumen tanks and save energy and money. There are good reasons that KVM bitumen tanks have a 300 mm thick insulation wrapped around the tank in 3 layers to prevent any thermal bridges. Temperature measurements in field tests prove that a 300 mm thick insulation is outstanding to maintain a constant temperature at power "stand by". Thermostatic controlled trace heating elements are fitted in the bottom of the bitumen tanks. The heating elements are easily accessible and maintenance free.

The lifting brackets are insulated at site after installation of the bitumen tank and the tank is sheeted with a smooth weather proof aluminium surface minimising the thermal loss. Thermal bridges can easily be spotted with thermal photo equipment and tests are made on a regular basis.



Heating	50/2,9	70/3,2	95/3,2	110/3,2	135/3,2
	Horizontal				
Max. kW	33 kW	44 kW	55 kW	60,5 kW	66 kW
Elements	6	8	10	11	12
	Vertical				
Max. kW	28 kW	40 kW	52 kW	60 kW	68 kW
Elements	7	10	13	15	17
Insulation	300 mm				

FILLING PUMPS / VALVES



Filling systems

Bitumen deliveries have to be handled with care. High temperatures and sticky bitumen are a potentially hazardous combination so **SAFE** operation is the key.

The KVM **ODOUR FILTER** is designed to take away bitumen odour from the venting fumes by passing these through an active carbon unit.

The KVM **CLEAN FILL** station is designed to avoid any bitumen spillage and environmental issues during bitumen deliveries by pneumatic unloading of road tankers. A trace heated "spillage" resevoir is situated between the storage tank and the road tanker to collect the bitumen drain off from the connecting hose.

The KVM **SAFE** filling pump connecting the delivery truck with the KVM bitumen tank ensures a safe and fast discharge / filling sequence. The filling pump is trace heated and a single filling pump can serve more tanks. From the KVM control panel the required tank can be selected.

The KVM 4" bitumen filling manifold is fitted with the required numbers of pneumatically operated valves. One valve for each bitumen tank. The valves are trace heated and insulated and electrically wired into junction boxes.