

Flange 3+

HDPE Tanks Construction for Copper Smelting Plant – Pirdop, Bulgaria Chemical-Resistant Solutions for Metallurgical Industry



Builder	DC PLAST eng. company
Location	Pirdop – Bulgaria
Items	3+ flange, PPH Valves VKD PE100 pipes + fittings, PE100 sheets
Year	2025-2026

Specifications:

Special tanks for storing and transporting chemicals were required for a copper production plant in the central-west of Bulgaria.

Due to the environmental conditions, the components had to be highly resistant to aggressive chemicals and corrosion.

- The tanks were made of polyethylene (HDPE), which is known for its excellent chemical resistance and durability.
- Process effluents –filtrates , weak alkaline and acid solutions.
- Working temperature = +60°C.
- Tanks are situated mostly outside (1-2 tanks inside).

Advantages for the FLANGE 3+:

- **Mechanical resistance:** Optimized and enhanced thanks to its new design that allows an excellent breaking load, outstanding elasticity properties and long life service.
- **Ease of installation:** Thanks to the bolts tightening sequence indications, the pins to clamp bolts and to its simmetry that allows bi-directional installation.
- Metal reinforcement is strategically concentrated at stress-prone areas of the backing ring (around holes and close to stub end area).
- Internal metal core to guarantee strength and mechanical resistance, covered by a PP-GR coating for chemical and corrosion resistance.
- The new wedge shape, as it has no gullies, reduces the collection of dirt, dust and liquids during the life of the product.





Letter of reference

DC PLAST ltd

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LETTER OF REFERENCE

We, DC Plast ltd, having its registered seat in address Georgi Ikonov 67 Plovdiv, Bulgaria, do hereby confirm following:

That we have installed on the tanks which we create a large number of VKD valves, 3+ flanges, pipes and fittings from PE100, sheets which were delivered to DC Plast EOOD by Aliaxis Bulgaria EOOD

We are definitely satisfied with the quality and performance of the above-mentioned products and especially the wide portfolio of products which Aliaxis deliver on Bulgarian market and its quite competent team.

Consequently, the products made by Aliaxis group are certainly highly considered for our possible future projects and/ or improvements-, refurbishments work.

Should you require any additional clarification, do not hesitate to contact us!

Dimitar Chikendov:



Managing Director

*Plovdiv, BG
29.04.2025z.*

*DS PLAST LTD – design, manufacture and installation of welded structures from thermoplastics PVC, PP, PE, PS, PC ABS, PA, PFA, FEP, PVDF
Composite structures from polymer systems PVC+FRP, PP+FRP, Fe+PFA(FEP).
Production of non-standard products from FRP.*