

Single Super Phosphate

Single Super Phosphate (SSP)

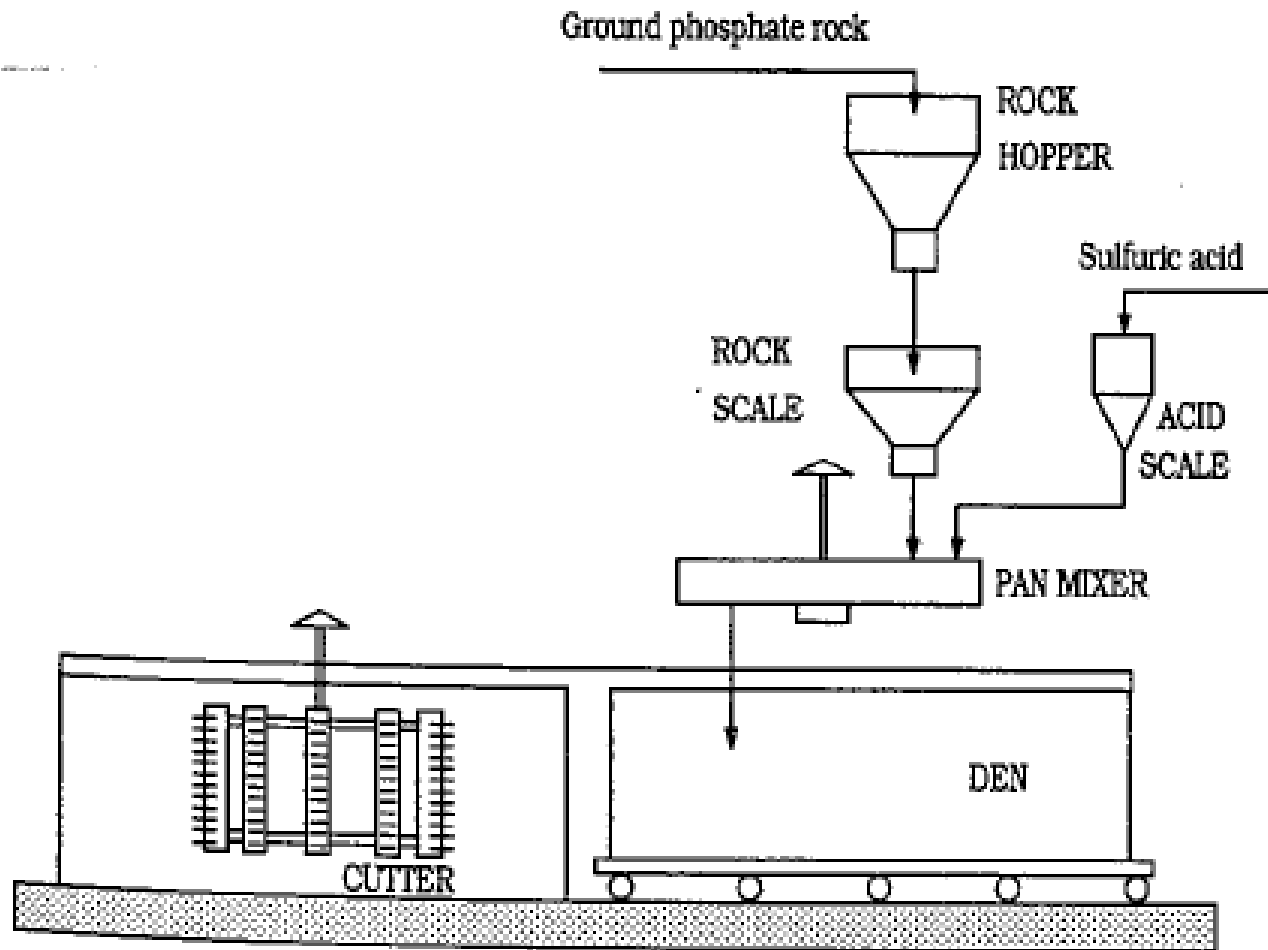
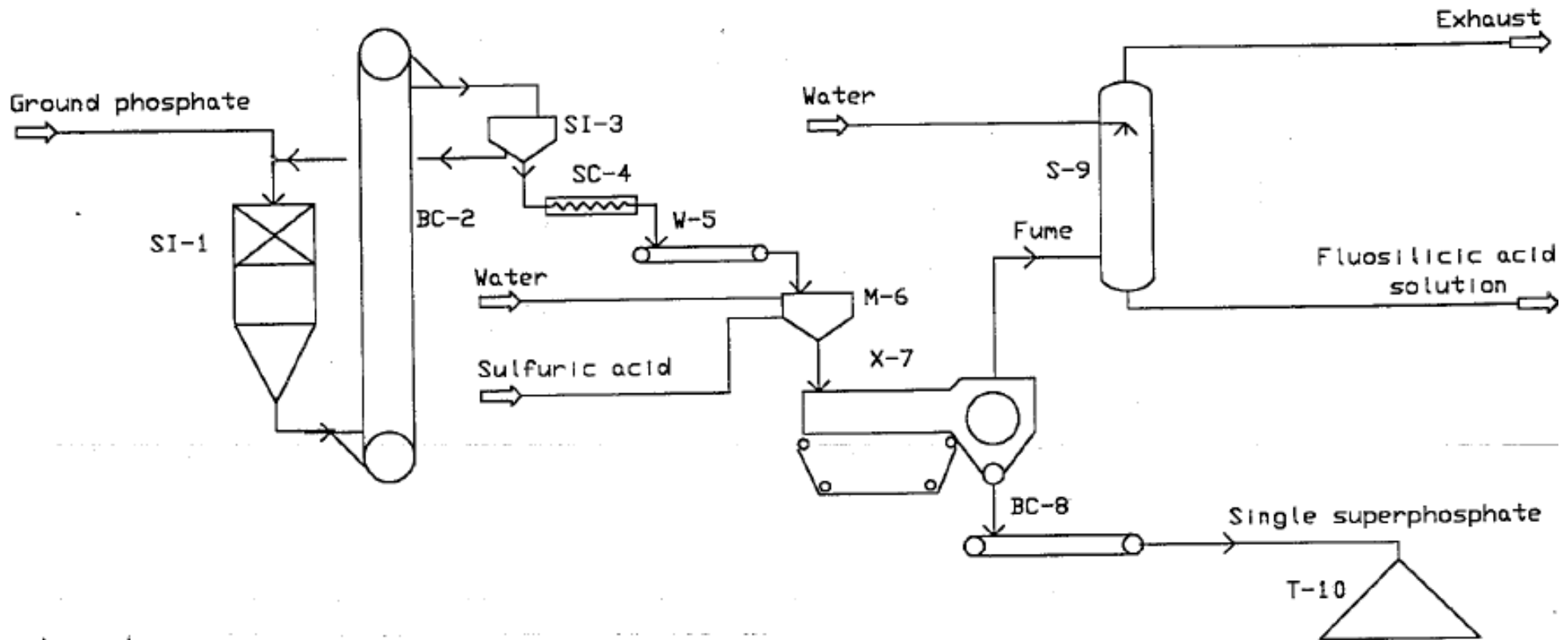


Figure 14.1. Batch Manufacture of Single Superphosphate.

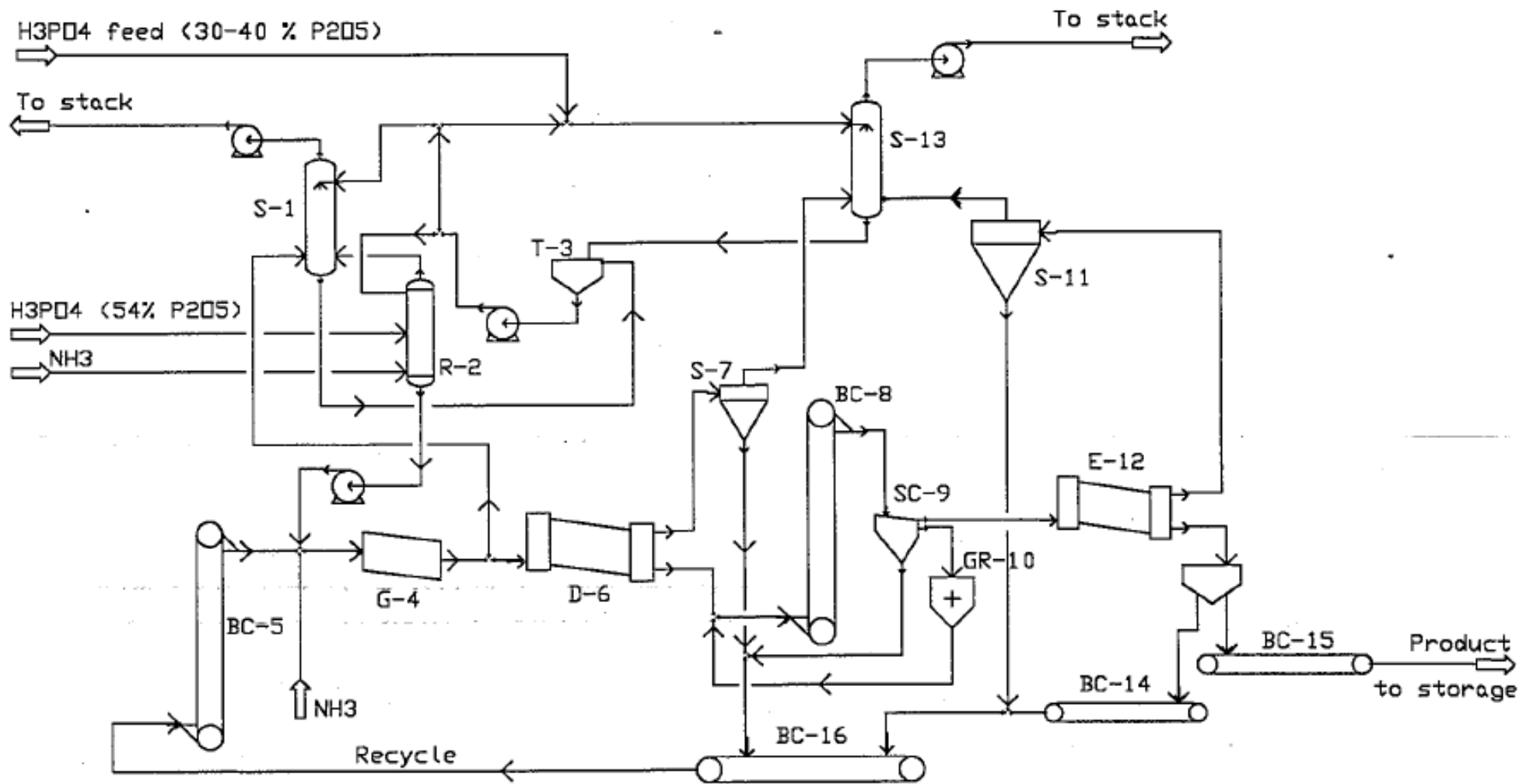


Legend:

- SI-1 Rock storage silo
- BC-2 Bucket elevator
- SI-3 Surge hopper
- SC-4 Metering screw
- W-5 Weigh feeder
- M-6 Cone mixer
- X-7 Slat conveyor continuous DEN
- BC-8 Belt conveyor
- S-9 Fume scrubber
- T-10 Superphosphate storage pile

Figure 14.2. Continuous Manufacture of Single Superphosphate.

Ammonium Phosphates



Legend:

- | | |
|-----------------------------|------------------------------------|
| S-1 Scrubber | S-7, S-11 Cyclones |
| R-2 Preneutralizer | SC-9 Screens |
| T-3 Surge tank | GR-10 Crusher |
| G-4 Granulator | E-12 Cooler |
| BC-5, BC-8 Bucket elevators | S-13 Scrubber |
| D-6 Dryer | BC-14, BC-15, BC-16 Belt conveyors |

Figure 12.5. TVA DAP Process.

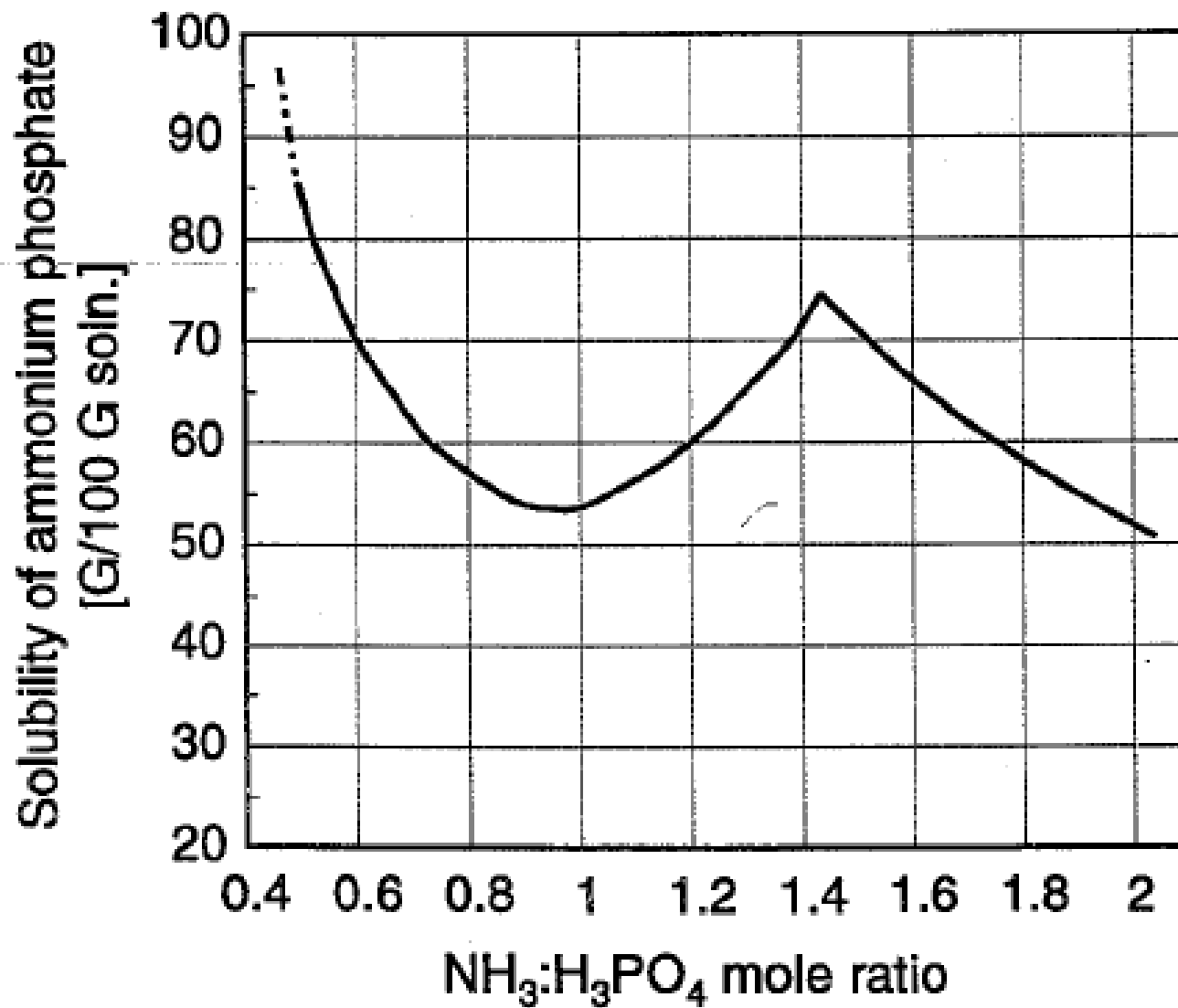
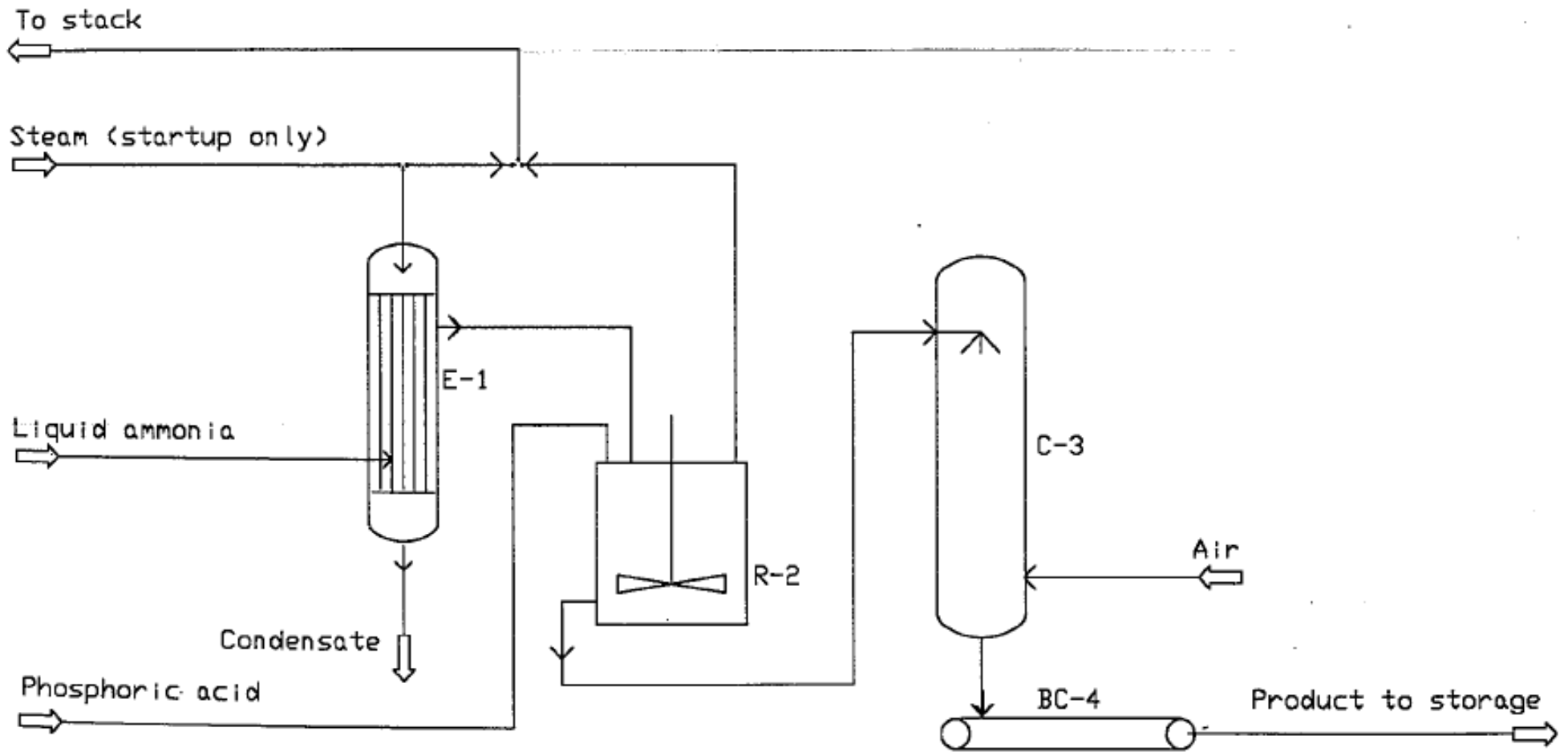


Figure 12.6. Effect of NH₃:H₃PO₄ Mole Ratio on Solubility of Ammonium Phosphate at 75°C.



- Legend:
- E-1 Ammonia vaporizer
 - R-2 Pressure reactor
 - C-3 Spray tower
 - BC-4 Belt conveyor

Figure 12.13. Fisons "Minifos" Process.

Potash Fertilizers

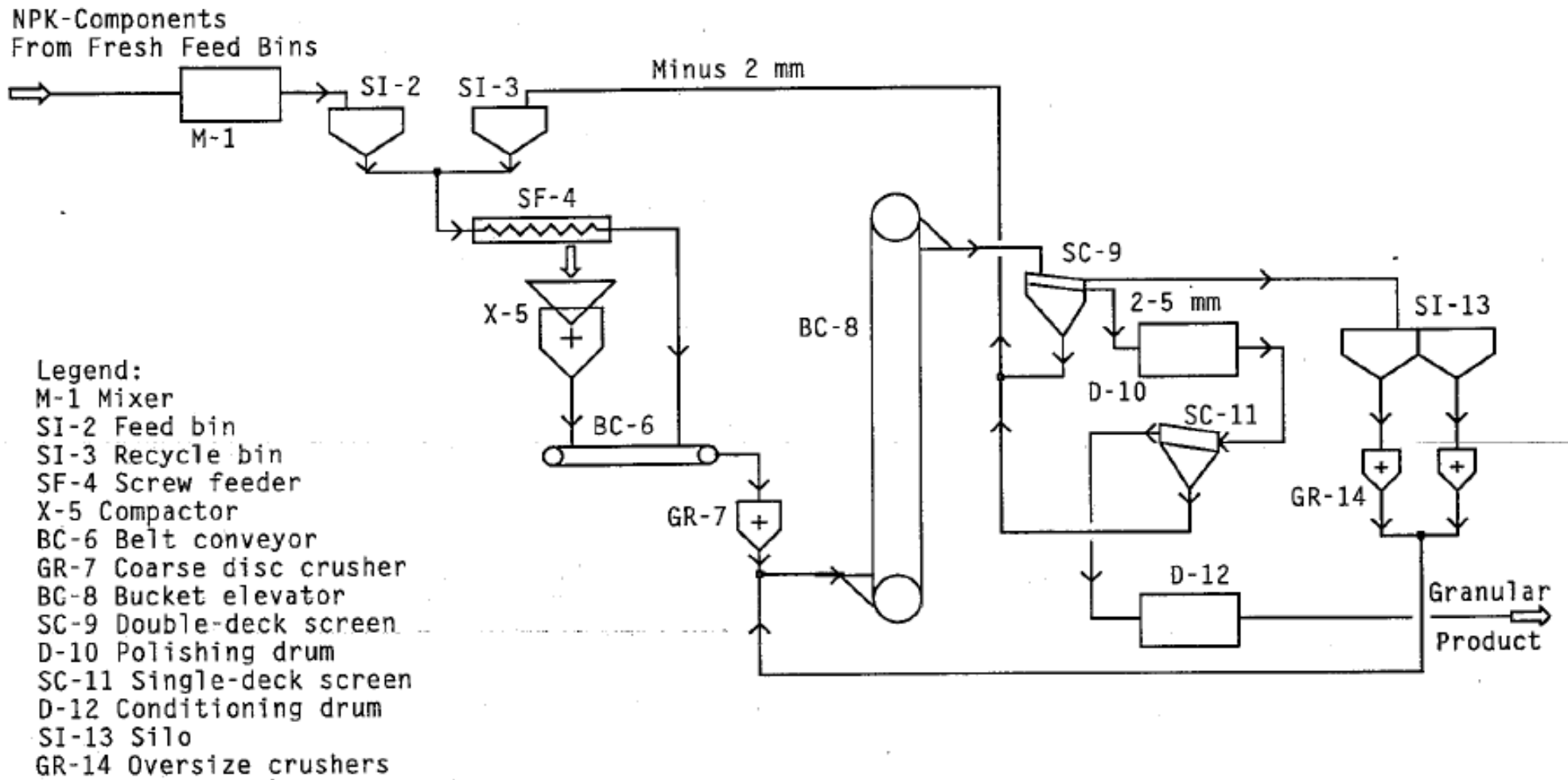


Figure 15.3. General Flowsheet for Potash Compaction/Granulation Plant.