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1 CONTEXT
2   WaterTank_1Tank_Cylinder_Ctx
3 EXTENDS
4   WaterTank_1Tank_Ctx
5 CONSTANTS
6   cylinderV
7   Base
8   H0
9   Hmax
10  delta_in_H
11  delta_out_H
12 AXIOMS
13  axm0:  $cylinderV = (\lambda h\_ \cdot h\_ \in RReal \mid times(Base \mapsto h\_))$ 
14  axm1:  $Base \in RReal$ 
15  axm2:  $Rzero \mapsto Base \in lt$ 
16  axm3:  $H0 \in RReal$ 
17  axm4:  $times(Base \mapsto H0) = V0$ 
18  axm5:  $Hmax \in RReal$ 
19  axm6:  $times(Base \mapsto Hmax) = Vmax$ 
20  axm7:  $delta\_in\_H \in RReal$ 
21  axm8:  $times(Base \mapsto delta\_in\_H) = delta\_in$ 
22  axm9:  $delta\_out\_H \in RReal$ 
23  axm10:  $times(Base \mapsto delta\_out\_H) = delta\_out$ 
24 END
```