

# Head loss

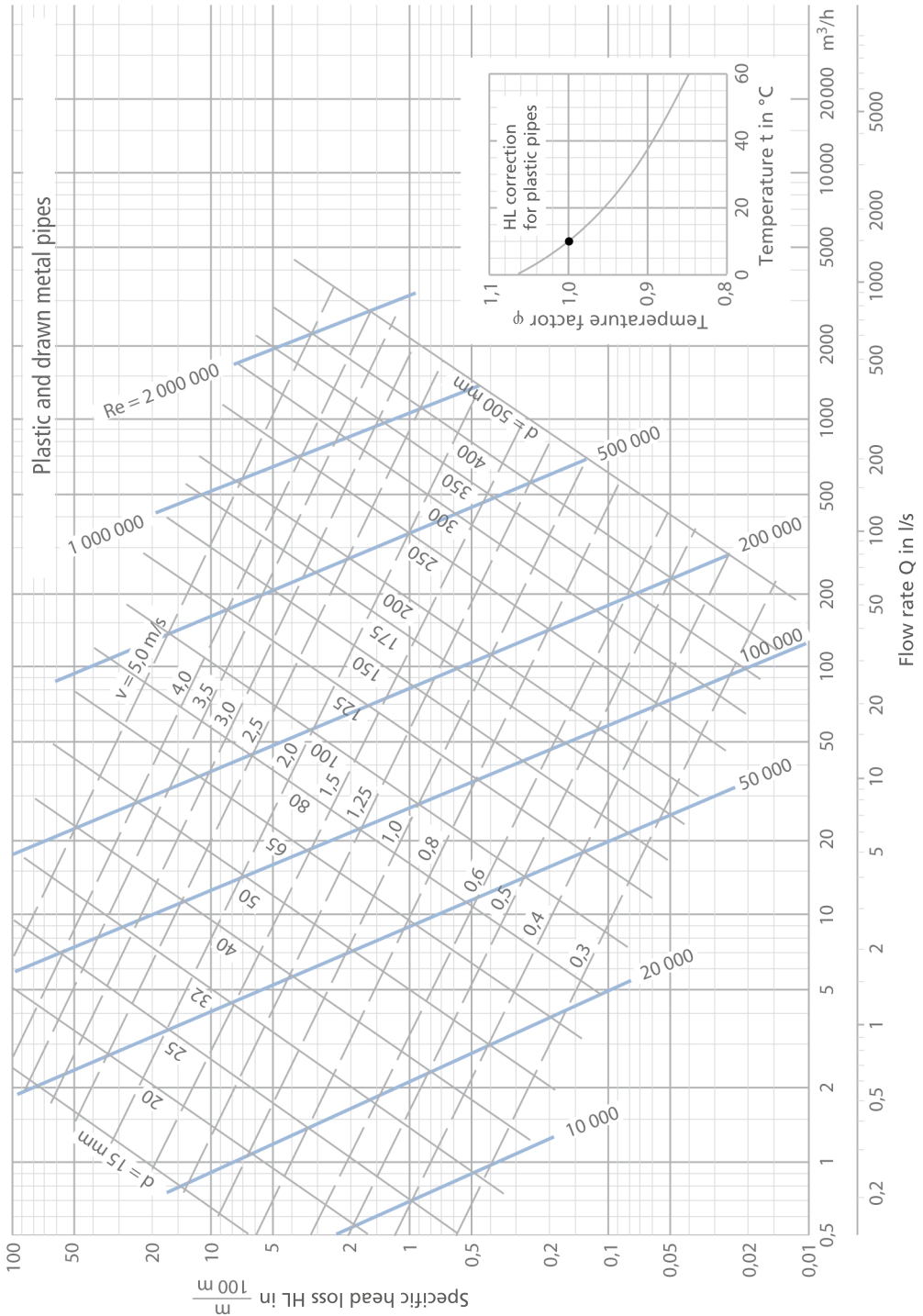


Fig. 5 Head losses: Head losses HL for hydraulically smooth pipes ( $k = 0$ )  
 (For plastic pipes at  $t \neq 10$  °C multiply by the temperature factor  $\phi$ )