

Dimensionless pressure (pressure diffusion)

In [SI unit system](#):

(1)
$$p_D = \frac{\sigma \cdot \Delta p}{q_t}$$

where

Δp	pressure drop
q_t	total sandface flowrate
σ	reservoir transmissibility

In [Oil Field unit system](#):

(2)
$$p_D = \frac{\sigma \cdot \Delta p}{141.2 q_t}$$

where

Δp	q_t	σ
psi	bpd	(md.ft)/cp

See Also

[Petroleum Industry](#) / [Upstream](#) / [Subsurface E&P Disciplines](#) / [Well Testing](#) / [Pressure Testing](#) / [Pressure Diffusion](#)

[[Well & Reservoir Surveillance](#)] [[Pressure diffusion @model](#)]