

# BENCOR (Pty) Ltd.

Pressure valves



## Pressure reducing valves type CDK

The task of pressure reducing valves in a hydraulic circuit is to maintain a rather constant outlet pressure despite a higher and changing inlet pressure. They are used when an hydraulic circuit with a higher pressure level (primary side) is to supply another circuit with a lower pressure level (secondary side), without affecting the higher pressure in the primary circuit.

The pressure reducing valve illustrated here is directly controlled. This valve type CDK does not show any leakage when closed and therefore a leakage port is not required as is with other conventional pressure reducing valves which act like a spool valve and always do have design related leakage. A override compensation is not possible with type CDK, as this valve is designed as a seated valve. A reversal of the direction of flow is possible up to approx.  $2 \times Q_{max}$ . A further benefit is the mounting hole, which can be easily manufactured (see dimensions).



**Nomenclature:** Pressure reducing valve (2-way valve)

**Design:** Screw-in valve  
Combination with a connection block for:

- pipe connection
- manifold mounting

**Adjustability:** Tool adjustable  
Manually adjustable

$p_{max P}$ : 400 bar

$p_{max A}$ : 300 bar

$Q_{max}$ : 15 l/min

### Basic types and general parameters

Basic type and size	Brief description	Pressure range:		Flow $Q_{max}$ (l/min)	Tapped ports	Symbol
		$p_{max A}$ (bar)	$p_{max P}$ (bar)			
CDK 3 - ...	screw-in valve			15	G 1/4	
CDK 3-...-1/4-DG3.	version for pipe connection, a pressure switch type DG 3. may be installed as option (see also "Additional information"), additional port for pressure gauge	1: 300 2: 200 3: 130			version for pipe connection	
CDK 3-...-P	manifold mounting valve					