



Dimensions in mm

Direct-acting relief cartridges are normally closed, pressure-limiting valves used to protect hydraulic components from pressure transients. When the pressure at the inlet (port 1) reaches the valve setting, the valve starts to open to tank (port 2), throttling flow to limit the pressure rise. These valves are smooth and quiet, essentially zero leak, dirt tolerant, immune to silting and are very fast.

The CE marked valve is a safety valve that meets the requirements of the European Directive for Pressurized Devices (PED) 2014/68/EU. The valve setting represents the excess operating pressure at which the valve opens. Valve capacity can be determined from the performance curve. It shows an approved flow which depends on the excess operating pressure. As a requirement of the PED, the system pressure at the maximum approved flow is a maximum of 10% above the excess operating pressure.

## TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Maximum Valve Leakage at Reseat	10 drops/min.
Response Time - Typical	2 ms
Reseat	>90% of setting
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Seal kit - Cartridge	Buna: 990310007
Seal kit - Cartridge	Viton: 990310006

## CONFIGURATION OPTIONS

Model Code Example: RDDTQAN

CONTROL	(Q) ADJUSTMENT RANGE	(A) SEAL MATERIAL	(N)
<b>Q</b> Capped and Lockwired	<b>A</b> 100 - 210 bar (100 - 210 bar) <b>B</b> 90 - 99 bar (90 - 99 bar) <b>C</b> 315 - 422 bar (315 - 422 bar) <b>W</b> 211 - 314 bar (211 - 314 bar)	<b>N</b> Buna-N <b>V</b> Viton	