



4.16

# 50PC20-30L TYPE

## Hydraulic Check Valve

Rated pressure (bar / psi)	350 / 5000
Peak flow (L/min / gpm)	80 / 21.1

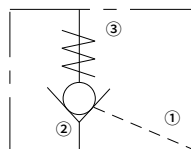
### Features

- Hardened parts for long life and low leakage
- Optional sealed piston
- High working pressure
- Compact size

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### Symbol



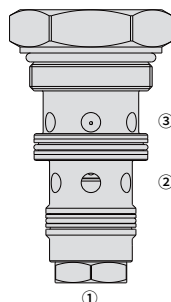
## Description

Threaded plug-in type, a check valve for use in blocking or load-holding circuits.

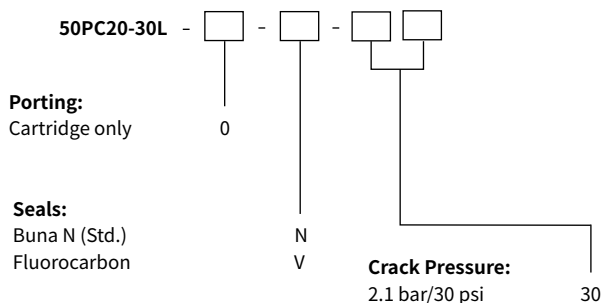
## Operation

The valve allows flow from ② to ③, while normally blocking flow from ③ to ②. Flow will be allowed from ③ to ② when sufficient pressure is applied at ①.

The cartridge has a 3:1 pilot ratio, meaning that at least one-third of the load pressure held at ③ is required at 1 to open the valve. The check is spring-biased to assure holding in static or no-load conditions.



## Ordering Code



## Materials

### Cartridge:

Weight: 0.6 kg; Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N (Std. ) seal.

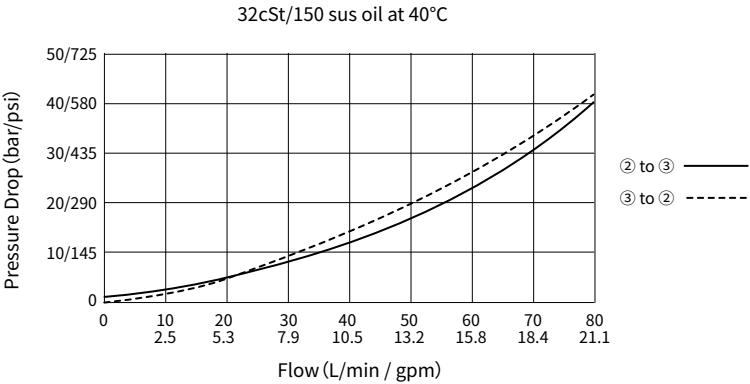
### Standard Ported Body:

Anodized high-strength aluminum alloy, rated to 240 bar; Ductile iron and steel bodies available; Dimensions may differ, consult factory.

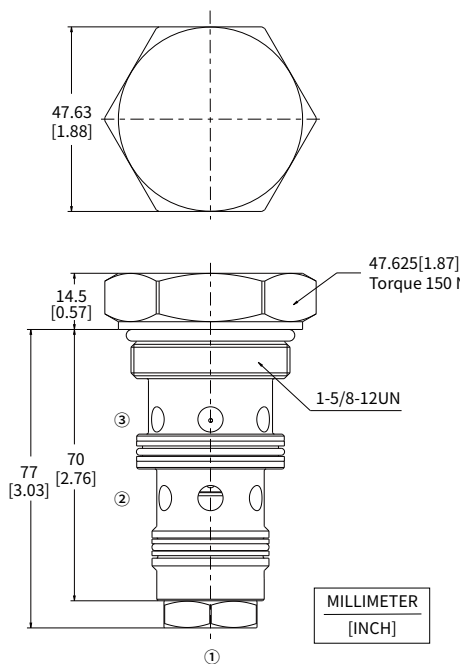
Technical Data

Rated pressure	350 bar (5075 psi)
Peak flow	80L/min (21.1 gpm)
Internal leakage	≤ 5 drops/min @ 350 bar
Pilot ratio	3:1
Crack pressure	2.1 bar (30 psi)
Cavity	See cavity dimensions
Fluid	Mineral-based or synthetics with lubricating properties
Viscosity range	7.4 to 420 mm <sup>2</sup> /s
Temperature range	-40 to 100 °C (Buna N seals)
	-26 to 204 °C (Fluorocarbon seals)
Degree of fluid contamination	The minimum pollution level is ISO4406 level 20/18/14, and level 17/15/13 is recommended to prolong the service life

Performance (Cartridge Only)



## Dimensions



## Cavity Dimensions

( Dimensions in mm )

