

Parker Product Datasheet



2-way flow control valves series GFG provide pressure compensated flow for a precise movement control. The valve design largely compensates temperature variations.

PART NUMBER: GFG2PKC18-10
FLOW RATE: 0.080 to 18 L/MIN
PRESSURE COMPENSATION TYPE: Internal control
LOCKING MECHANISM: Without lock
VALVE TYPE: With check valve
SEAL MATERIAL: NBR

PRODUCT OVERVIEW

Parker's 2-way flow control valves series GFG ensure a constant flow rate independent of pressure and temperature fluctuations. The GFG is optionally equipped with a built-in check valve for the return flow.

Markets:

- Industrial
- Machine tools

Features/Benefits:

- Pressure compensated flow – movements are precisely executed
- Wide range of different flow rates – enables fine adjustment
- Short delivery time - no warehousing necessary
- External port (P) to block flow from A to B
- Optional reverse flow check valve

- Turn knob with cylinder lock (option S)

Applications:

- Suitable for general hydraulic applications
- Machine tool

Design:

The 2-way flow control valves are used with a triangular flow restrictor and a subsequent pressure compensator. The setting of the flow rate can be locked by a cylinder lock in the adjusting knob against unauthorized adjustment (option S).

Function:

The fluid enters through port A through the flow restrictor. Downstream of the flow restrictor the pressure compensator is located. The control edges are provided by four radial bores in the poppet, which are fully open to port B in the neutral position. Optionally the flow from A to B can be blocked by external pilot pressure applied to port P (option X). This can be used to avoid unintended initial movements of actuators. The flow adjustment is done via the hand knob with an adjusting angle knob of 270°.

TECH SPECIFICATIONS

PRODUCT SERIES	Flow valve
DIVISION	Hydraulic Valve Systems Division Europe
WEIGHT	1.1 kg
ACTUATION TYPE	Manually
CONNECTION TYPE	N/A
MAXIMUM OPERATING TEMPERATURE	60 °C
MAXIMUM OPERATING PRESSURE	315 bar
MOUNTING POSITION	Unrestricted
FLOW RATE	0.080 to 18 L/min
MINIMUM OPERATING TEMPERATURE	-20 °C
PORT CONNECTION	NG06

CONNECTION SIZE	N/A
BODY MATERIAL	Steel
SEAL MATERIAL	NBR
FUNCTION	2-way, With check valve
MAXIMUM FLOW RATE	18 L/min
MOUNTING TYPE	Subplate
CONFIGURATION	N/A