

Parker Product Datasheet



Parker pilot operated pressure relief valves series R5V and R5V*P2 provide an outstanding constant pressure behaviour. The SAE flanges allow to mount the valves directly on the flanges of pumps or actuators to achieve a very compact design.

PART NUMBER: 026-53550-0
PRESSURE ADJUSTMENT CONTROL TYPE: Hand knob
PORT CONNECTION: SAE 1 1/2
BODY TYPE: 3-port, Y1, X1, M = G 1/4
DRAIN OPTION: Drain line internal
ADDITIONAL OPTIONS: N/A
ACTUATION TYPE: Manually
SWITCHING OPTION: N/A
PRESSURE CONTROL RANGE: 210 BAR
SIGNAL INPUT: N/A
PORT SIZE: SAE61
SEAL MATERIAL: NBR

PRODUCT OVERVIEW

Well known as excellent pressure relief valves, Parker's series R5V and R5V*P2 work stable across the whole pressure range and thus contribute to a smooth-running operation. Additionally they provide a wide range of options and connections for a versatile use in various applications. R5V and R5V*P2 are part of the Parker valve range with SAE flanges which is unique in its variety.

Their design is similar to the subplate mounted R4V series. They provide an outstanding constant pressure behaviour. The SAE flanges allow to mount the valves directly on the outlet

flanges of pumps or inlet flanges of actuators to achieve a very compact design.

Series R5V*P2 with additional proportional unit between the mechanical pilot valve and the main stage ensures continuous pressure adjustment. The optimum performance can be achieved in combination with the digital amplifier module PCD00A-400.

Market:

- Industrial

Features/Benefits:

- Wide range of options – suitable for almost every application
- Outstanding constant pressure behavior – supports reliable operation
- Very good pressure/flow behavior – contributes to a high energy efficiency of the system
- SAE flange - enables compact design
- Short delivery time – no warehousing necessary
- Pilot operated with manual adjustment
- R5V with 3-port body: 4 sizes (SAE $\frac{3}{4}$ ", 1", 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ ")
- 3 pressure stages
- 3 adjustment modes:
 - hand knob
 - acorn nut with lead seal
 - cylinder lock
- With optional vent function

Deviating Features/Benefits series R5V*P2:

- Continuous adjustment by proportional solenoid

- With mechanical maximum pressure adjustment
- Optimally suited to the digital amplifier module PCD00A-400

Applications:

- Suitable for general hydraulic applications

Note: R5V with 2-port body is not longer available from Parker, please refer to the recommended products for a replacement.

TECH SPECIFICATIONS

MEDIA	Hydraulic Oil
MINIMUM AMBIENT TEMPERATURE	-20 °C
APPLICATION	Industrial Hydraulic
MAXIMUM FLUID TEMPERATURE	70 °C
MAXIMUM AMBIENT TEMPERATURE	60 °C
BRAND	Parker
WEIGHT	5.2 kg
OPERATION TYPE	Pilot
TECHNOLOGY	Hydraulics
MINIMUM KINEMATIC VISCOSITY	20.0 cSt
PRODUCT SERIES	Pressure Valve
MINIMUM FLUID TEMPERATURE	-25 °C
MAXIMUM KINEMATIC VISCOSITY	400 cSt
PRESSURE CONTROL RANGE	210 bar

MAXIMUM OPERATING TEMPERATURE	60 °C
FOR FLUID TYPE	Hydraulic Oil According to DIN 51524
MAXIMUM OPERATING PRESSURE	210 bar
MAXIMUM FLOW RATE	n/a
BODY MATERIAL	Cast Iron
ACTUATION TYPE	Manual
FLOW RATE	600 L/min
MOUNTING TYPE	Flanged according SAE61
DIVISION	Hydraulic Valve Systems Division Europe
SEAL MATERIAL	NBR
MINIMUM OPERATING TEMPERATURE	-20 °C