

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: 026-53645-0
SEAL MATERIAL: NBR
PORT SIZE: SAE61
ACTUATION TYPE: Manually
PORT CONNECTION: SAE 1
PRESSURE CONTROL RANGE: 210 BAR
ADDITIONAL OPTIONS: N/A
PRESSURE ADJUSTMENT CONTROL TYPE: Acorn nut with lead seal
SIGNAL INPUT: N/A
DRAIN OPTION: Drain line internal
BODY TYPE: 3-port, Y1, X1, M = G 1/4
SWITCHING OPTION: N/A

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

MAXIMUM OPERATING TEMPERATURE	60 °C
DIVISION	Hydraulic Valve Systems Division Europe
MAXIMUM OPERATING PRESSURE	350 bar
FLOW RATE	300 L/min
MINIMUM OPERATING TEMPERATURE	-20 °C
FOR FLUID TYPE	Hydraulic Oil According to DIN 51524
MEDIA	Hydraulic Oil
APPLICATION	Industrial Hydraulic
BRAND	Parker
TECHNOLOGY	Hydraulics
BODY MATERIAL	Cast Iron
PRODUCT SERIES	Pressure Valve
SEAL MATERIAL	NBR
WEIGHT	4.6 kg
MAXIMUM FLOW RATE	n/a

MOUNTING TYPE	Flanged according SAE61
ACTUATION TYPE	Manual
OPERATION TYPE	Pilot
PRESSURE CONTROL RANGE	210 bar
MAXIMUM AMBIENT TEMPERATURE	60 °C
MINIMUM AMBIENT TEMPERATURE	-20 °C
MAXIMUM FLUID TEMPERATURE	70 °C
MINIMUM FLUID TEMPERATURE	-25 °C
MAXIMUM KINEMATIC VISCOSITY	400 cSt
MINIMUM KINEMATIC VISCOSITY	20.0 cSt