

Relief Valves

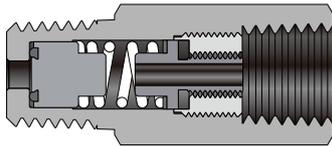
RUV and RV Series

Introduction

Relief valve opens when system pressure exceeds the set pressure, allowing the medium to flow out to relieve the system pressure, and closes when the system pressure decreases to the resealing pressure.

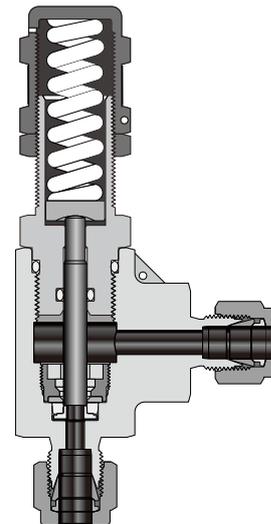
RUV Series

- ⦿ Compact design with one-piece body
- ⦿ Standard seat: FKM
- ⦿ Temperature: -10 °F to 300 °F (-23 °C to 148 °C)
- ⦿ Cracking pressure: 25 to 500 psig (1.7 to 34.5 bar)
- ⦿ Set pressure by nut adjustment and spring replacement



RV Series

- ⦿ Set pressure: 7 color-coded springs available for a wide range of set pressures, 50 to 6000 psig @ 70°F (3.4 to 414 bar @ 20°C)
- ⦿ Maximum outlet pressure:RV series: 1500 psig (103 bar)
- ⦿ Orifice size: RV series: 0.14" (3.6 mm)
- ⦿ Back pressure:
 - Back pressure is the pressure of the outlet of valves. It increases the set pressure of proportional relief valves.
 - RV series: Balanced stem design to eliminate the effect of system back pressure
- ⦿ Working temperature: -40 °F to 300 °F (-40 °C to 148 °C)
- ⦿ Variety of end connections
- ⦿ Liquid or gas service
- ⦿ Adjustable bonnet cap and adjustable set pressure
- ⦿ Lead seal lock wire through lock wire holes to lock proportional relief valve so as to secure a set pressure effectively
- ⦿ Variety of seal materials
- ⦿ Label identifies the set pressure range



Temperature Range of Sealing Material

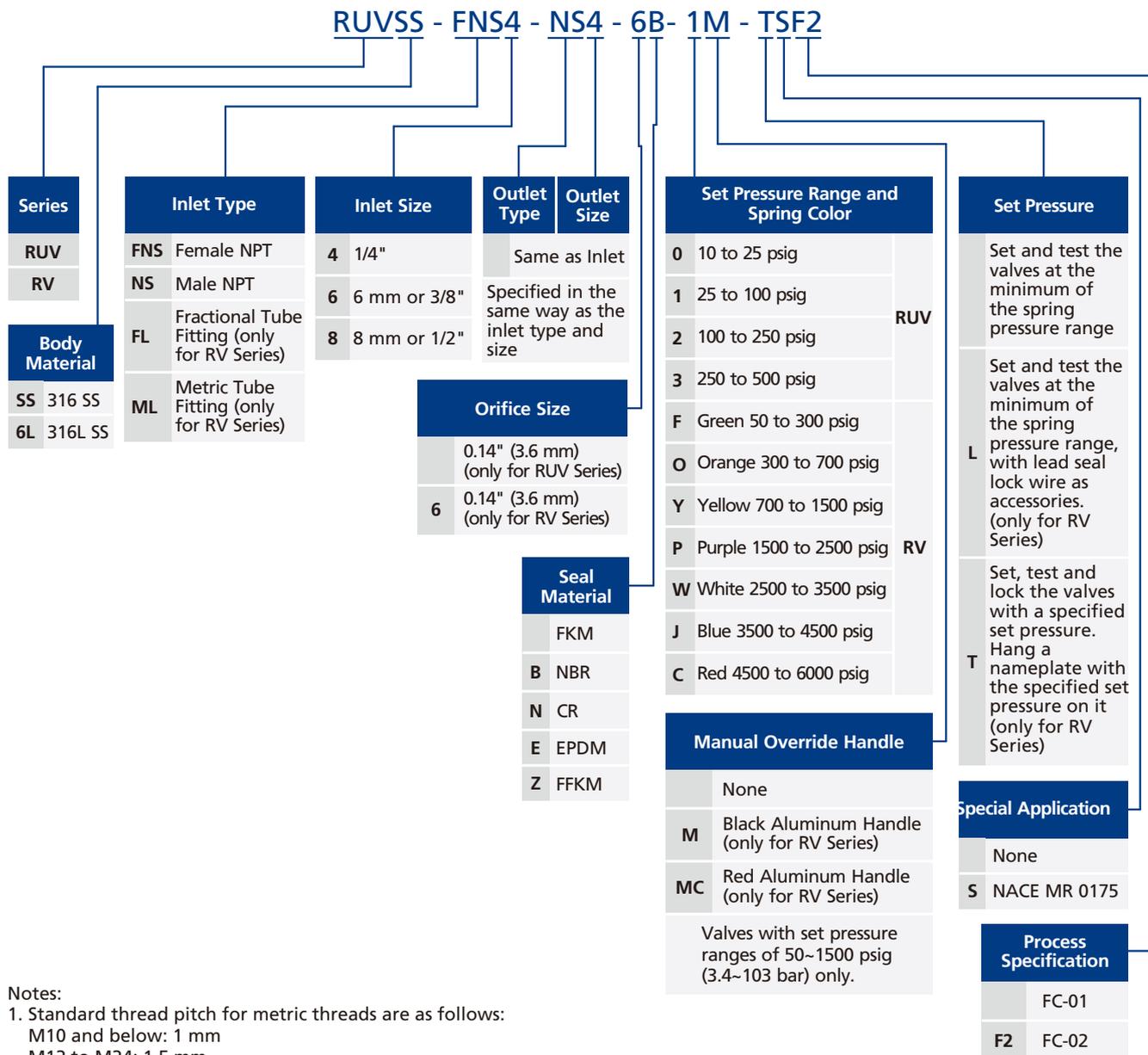
RUV Series

O-ring Material	Temperature Range °F (°C)
FKM	25 to 250 (-4 to 121)
NBR	0 to 212 (-17 to 100)
CR	-10 to 300 (-23 to 148)
EPDM	30 to 250 (-1 to 121)

RV Series

O-ring Material	Temperature Range °F (°C)
FKM	25 to 250 (-4 to 121)
NBR	-40 to 250 (-40 to 121)
CR	-10 to 200 (-23 to 93)
EPDM	-40 to 250 (-40 to 121)
FFKM	25 to 300 (-4 to 148)

Ordering Number Description



Notes:

- Standard thread pitch for metric threads are as follows:
 M10 and below: 1 mm
 M12 to M24: 1.5 mm
 M27 and above: 2 mm
 Standard thread pitch should be ignored in the ordering number, others should be specified.
- Cleaning and Packaging:
 FC-01: Standard cleaning and packaging for general industrial procedures.
 FC-02: Special cleaning and packaging for wetted system components to ensure compliance with product cleaning requirement of ASTM G93 Level C.
- For proportional relief valve with a specified set pressure and a nameplate, specify the desired set pressure when ordering. The set pressure value should be within the set pressure range of the selected spring, and the following requirements should be followed:
 10 psig ≤ set pressure value ≤ 500 psig, take the minimum interval 1 psig.
 500 psig ≤ set pressure value ≤ 1000 psig, take the minimum interval of 5 psig.
 1000 psig ≤ set pressure value ≤ 6000 psig, take the minimum interval of 10 psig.
- "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.
- Set pressure can be factory set upon request, please leave a note of desired set pressure when ordering.