

Relief Valves

Medium Pressure, High Pressure, and NPT Inlet Options to 75,000 psi

RVP/PRVP and RVS/PRVS Series



Principle of Operation:

Parker Autoclave Engineers relief valves are designed to open proportionally to increasing pressure. Therefore, they are not recommended for applications requiring immediate full valve flow at set pressure and should not be considered a “Safety Valve”. Full flow of relief valve is defined as 110% of set pressure.

RVP Metal Seat Relief Valve:

Series RVP relief valves provide reliable venting of gases or liquids for set pressures from 3,000 psi (205 bar) minimum to 75,000 psi (5170 bar). The standard temperature range for all models is -423° to 400°F (-252° to 204°C). A high temperature option to 750°F (399°C) is also available.

These precision valves are designed for pressure gas systems, cryogenic systems, petrochemical applications and other special systems. Capable of handling air, gases, steam, vapor and liquids, they are however, not recommended for steam boiler applications nor are they ASME code stampable (K-Factors are not available).

RVS Soft Seat Relief Valve:

Series RVS relief valves utilize a PEEK soft seat design for reliable venting of gases at set pressures from 1,500 psi (103 bar) to 20,000 psi (1380 bar). The operating temperature range is -50° to 400°F (-46° to 204°C).

The soft seat design provides bubble tight sealing, repeatable pop-off, and reseal. Additionally, soft seat valves provide a higher cycle life than metal seat relief valves.

These precision valves are designed for gases and liquid systems where zero leakage is critical. They are not recommended for liquefied gases which produce gas at cryogenic temperatures below -50°F upon relief.



ENGINEERING YOUR SUCCESS.

Relief Valves: Pressures to 75,000 psi (5170 bar)

Features and Benefits:

Material:

Standard models of Relief Valves are constructed of UNS S31600, 316 cold worked stainless steel with selected components made of anti-galling stainless steel material for optimum economy and ruggedness.

Connections:

Cone and Thread versions (RVP & RVS Series):

Models 5, 10, and 20RVS Series = SF562C 9/16" Medium Pressure Cone & Thread Connection

Models 5, 10, 15, and 20RVP = SF562C 9/16" Medium Pressure Cone & Thread Connection

Models 30, 45, and 60 RVP = F375C 3/8" High Pressure Cone & Thread Connection

Model 75RVP = F312C150 5/16" Ultra-High Pressure Cone & Thread Connection

NPT Inlet Versions (PRVP & PRVS Series):

Models 5, 10 and 15 PRVS and PRVP Series = 1/2" NPT

The outlet connection on all models is a female 3/4" NPT. While adapters to other sizes and connection types are available, they must be sized for specific flow requirements. Outlet pressure cannot exceed 500 psi (35 bar) in all pressure ranges.

Orifice Sizes:

Orifice diameters range from .062 (1.57mm) to .312" (7.92mm). (See chart on page 5 for list of valve orifice options)

Full Lift for Full Flow:

These relief valves are designed to open as a function of increasing system pressure. Proper spring selection assures repeatability of opening, full lift and flow, and reseal pressures.

Reliability and Long Service Life:

Materials engineering and stringent quality control procedures combine to assure the highest quality, reliability and service life. Each valve is preset and factory sealed to ensure proper valve operation. Note: Mount as far from Pump Outlet as possible to avoid premature relief and extend valve life.

Setpoint Accuracy:

Setpoint Accuracy is $\pm 3\%$.

Re-Seat Pressure: 85% of set pressure

High Set Pressure Capability:

Unique seat construction plus over-the-nozzle guiding and proper selection of materials permits standard set pressures to 75,000 psi. (5170 bar).

Dependable Shut-Off:

Series RVP/PRVP relief valves are designed to provide shut-off of liquids and gases under pressure to commercial tightness standards. Series RVS/PRVS relief valves are designed to provide bubble tight shut off of gases and liquids.

Fewer Parts, Ease of Maintenance:

Engineered to perform with fewer basic components, both RVP/PRVP and RVS/PRVS valves facilitate minimum stocking of spare parts and ease of maintenance. The combined angle seat in the RVP/PRVP series eliminates the need for lapping in rework.

Special Requirements:

Most models available with CE Mark/PED Approval (PRVP and PRVS are exception) to Category IV. SOG (NACE MR0175) option available upon request.

Relief Valves: Pressures to 75,000 psi (5170 bar)

Options:

Parker Autoclave Engineers can supply various options on special order. A high temperature option is also available for temperatures to 750°F (399°C) for RVP or PRVP models. To specify high temperature option: Add suffix “HT” for 750°F (399°C) high temperature option.

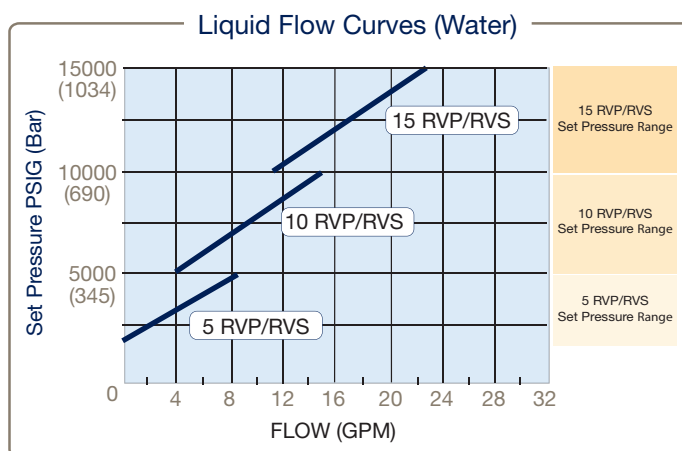
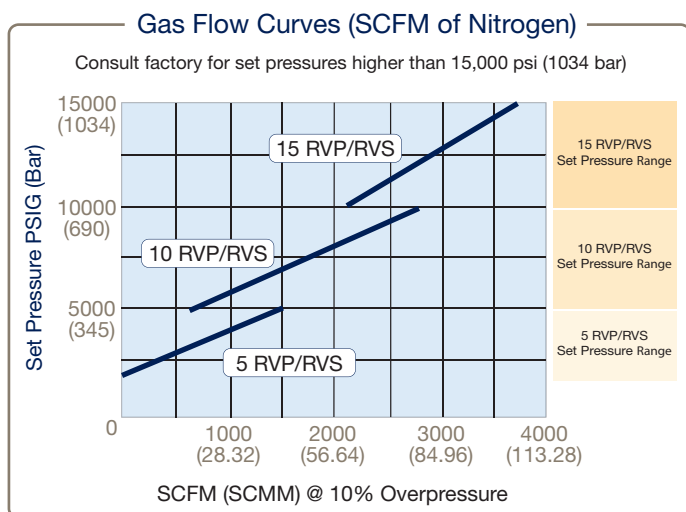
Note: Pressure rating for elevated temperature based on derating curves. (See Technical Brochure).

Caution:

1. AE relief valves are preset and factory sealed. Warranty is voided if seal is broken by customer.
2. Maximum system operating pressure should not exceed 90% of relief valve set pressure. **Operating pressures in excess may cause weepage resulting in damage to the plug and seat.**
3. Relief Valves are not to be used as Pressure regulators, RVP has limited actuation life dependent on pressure.

Ordering Instructions:

To permit prompt and correct responses to your order, we will require the following information: quantity, valve catalog number, service requirements (liquid, gas & vapor), set pressure (PSIG - bar), and service temperature range.



All models are designed primarily for thermal expansion or low volume relief applications at high pressures where flow is not critical.

Note: Curves on this page are based on capacities of valves only and do not take tubing into account.

Caution should be exercised in proper selection of medium pressure tubing based on actual operating conditions. Two series available: 15,000 (1035 bar) and 20,000 (1380 bar).

Relief Valves: Pressures to 75,000 psi (5170 bar)

Relief Valve Dimensions and Details:

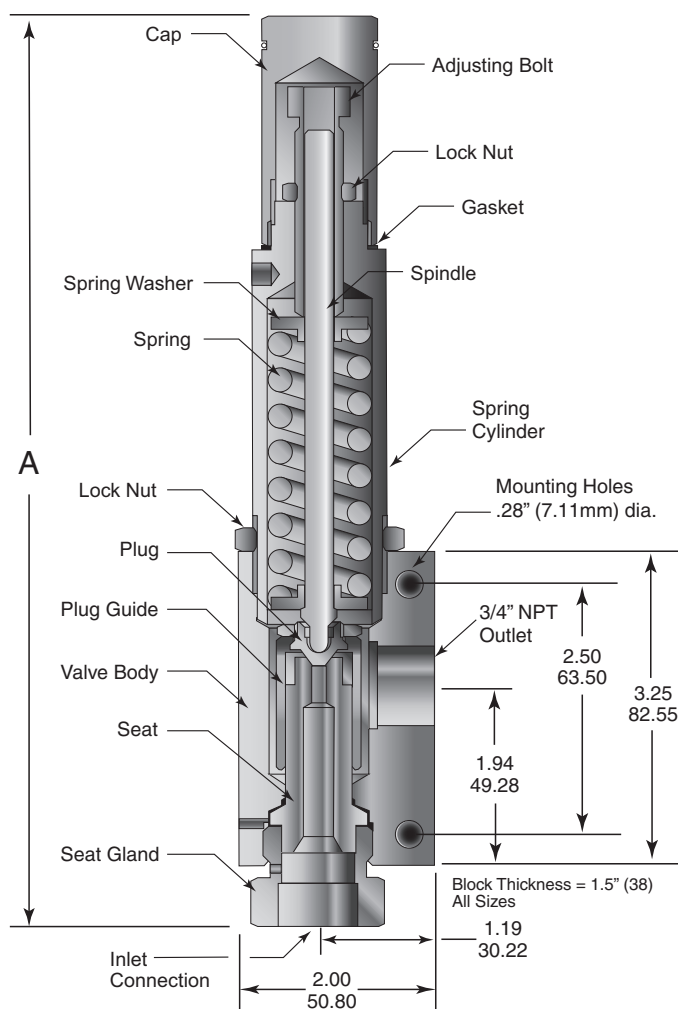


Figure 1
RVP/PRVP Series (Metal Seat)

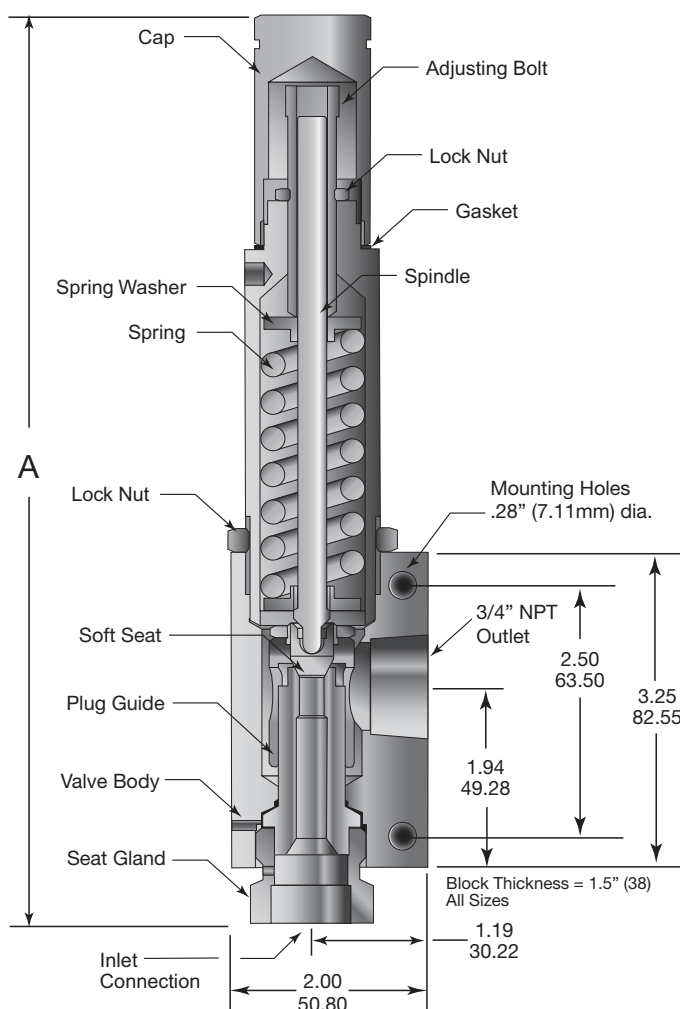


Figure 2
RVS/PRVS Series (Soft Seat)

Note: For "A" dimension please reference the "Ordering and Specifications" table on Page 5.

Relief Valves: Pressures to 75,000 psi (5170 bar)

Ordering and Specifications:

FIGURE 1: RVP & PRVP Metal Seat Series Relief Valve (PRVP is NPT Inlet version)

| Catalog Number* | Connection Size and Type | | Orifice Diameter Inches (mm) | Pressure Rating psi (bar) @ 100°F (38°C) | | | Dimension Inches (mm) "A" | Repair Kit ¹ |
|-----------------|--------------------------|-------------------|------------------------------|--|-----------------|-----------------------|------------------------------|-------------------------|
| | Inlet Connection | Outlet Connection | | Minimum Setting | Maximum Setting | Maximum Back Pressure | | |
| 5PRVP8072 | 1/2" FNPT | 3/4 FNPT | 0.312 (7.92) | 3,000 (210) | 5,000 (345) | 500 (35) | 10.47 (266) | R5PRVP |
| 10PRVP8072 | 1/2" FNPT | 3/4 FNPT | 0.250 (6.35) | 5,000 (345) | 10,000 (690) | 500 (35) | 10.47 (266) | R10PRVP |
| 15PRVP8072 | 1/2" FNPT | 3/4 FNPT | 0.188 (4.78) | 10,000 (690) | 15,000 (1035) | 500 (35) | 10.47 (266) | R15RVP |
| 5RVP9072 | SF562CX (9/16" MP) | 3/4 FNPT | 0.312 (7.92) | 3,000 (210) | 5,000 (345) | 500 (35) | 9.40 (238) | R5RVP |
| 10RVP9072 | SF562CX (9/16" MP) | 3/4 FNPT | 0.250 (6.35) | 5,000 (345) | 10,000 (690) | 500 (35) | 9.40 (238) | R10RVP |
| 15RVP9072 | SF562CX (9/16" MP) | 3/4 FNPT | 0.188 (4.78) | 10,000 (690) | 15,000 (1035) | 500 (35) | 9.40 (238) | R15RVP |
| 20RVP9072 | SF562CX (9/16" MP) | 3/4 FNPT | 0.156 (3.96) | 15,000 (1035) | 20,000 (1380) | 500 (35) | 9.40 (238) | R20RVP |
| 30RVP6072 | F375C (3/8" HP) | 3/4 FNPT | 0.125 (3.18) | 15,000 (1035) | 30,000 (2070) | 500 (35) | 9.52 (241) | R30RVP |
| 45RVP9072 | F562C (9/16" HP) | 3/4 FNPT | 0.093 (2.36) | 25,000 (1725) | 45,000 (3100) | 500 (35) | 9.52 (241) | R45RVP |
| 60RVP6072 | F375C (3/8" HP) | 3/4 FNPT | 0.078 (1.98) | 30,000 (2070) | 60,000 (4140) | 500 (35) | 9.52 (241) | R60RVP |
| 75RVP5072 | F312C150 (5/16" UHP) | 3/4 FNPT | 0.062 (1.57) | 37,000 (2550) | 75,000 (5170) | 500 (35) | 9.83 (249) | R75RVP |

FIGURE 2: RVS & PRVS Soft Seat Series Relief Valve (PRVS is NPT Inlet version)

| Catalog Number* | Connection Size and Type | | Orifice Diameter Inches (mm) | Pressure Rating psi (bar) @ 100°F (38°C) | | | Dimension Inches (mm) "A" | Repair Kit ¹ |
|-----------------|--------------------------|-------------------|------------------------------|--|-----------------|-----------------------|------------------------------|-------------------------|
| | Inlet Connection | Outlet Connection | | Minimum Setting | Maximum Setting | Maximum Back Pressure | | |
| 5PRVS8072 | 1/2" FNPT | 3/4 FNPT | 0.312 (7.92) | 1,500 (103) | 5,000 (345) | 500 (35) | 10.47 (266) | R5PRVS |
| 10PRVS8072 | 1/2" FNPT | 3/4 FNPT | 0.250 (6.35) | 5,000 (345) | 10,000 (690) | 500 (35) | 10.47 (266) | R10PRVS |
| 15PRVS8072 | 1/2" FNPT | 3/4 FNPT | 0.188 (4.78) | 10,000 (690) | 15,000 (1035) | 500 (35) | 10.47 (266) | R15PRVS |
| 5RVS9072 | SF562CX (9/16" MP) | 3/4 FNPT | 0.312 (7.92) | 1,500 (105) | 5,000 (345) | 500 (35) | 9.40 (238.76) | R5RVS |
| 10RVS9072 | SF562CX (9/16" MP) | 3/4 FNPT | 0.250 (6.35) | 5,000 (345) | 10,000 (690) | 500 (35) | 9.40 (238.76) | R10RVS |
| 20RVS9072 | SF562CX (9/16" MP) | 3/4 FNPT | 0.156 (3.96) | 10,000 (690) | 20,000 (1378) | 500 (35) | 9.40 (238.76) | R20RVS |

* Maximum pressure rating based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower. Note: For pressure rating see selection chart.

¹ Include suffix from original valve for correct options

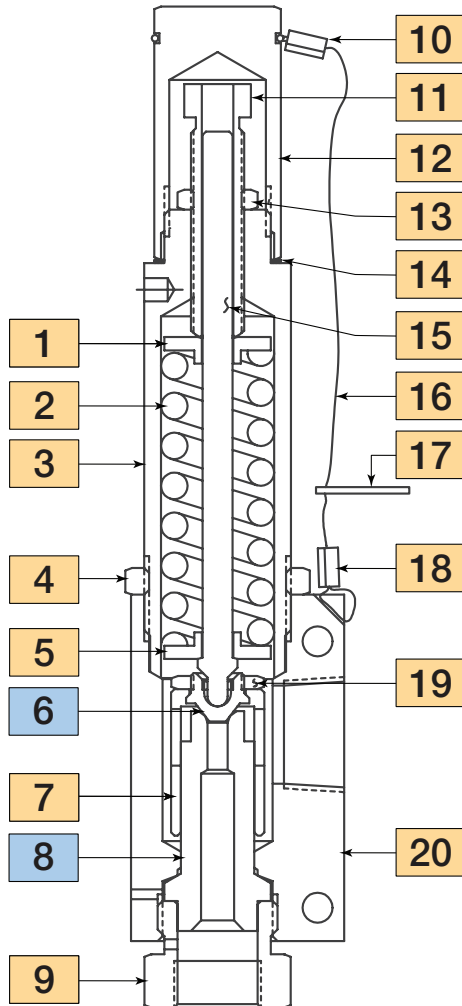
| Suffix | Relief Valve Options (add as suffix to Catalog number listed above) |
|----------------|---|
| HT | High Temperature Spring to 750°F (399°C) (RVP or PRVP Series only) |
| K | Antivibration Gland Fitting (Cone & Thread Connections) |
| HYG (RVS Only) | Modified for use with Hydrogen/Helium (seat surface and helium seat tested - no material changes) |
| CE | CE Mark/PED Category IV (not available with PRVP or PRVS models) |
| SOG | Materials used are NACE Capable & Hardness verified (Maximum pressure reduction possible) |
| 2507 | UNS S32750 2507 Super Duplex Wetted Materials |
| HC | UNS N10276 Hastelloy C-276 Wetted Materials |
| IN625 | UNS N06625 Inconel 625 Wetted Materials |

(See "Technical Brochure" for Pressure/Temperature effect on temperatures above ambient.)

Note: use of optional material only changes "wetted parts" to selected material. Items like collars and glands remain CW 316/316L SS. Use **-SOG** (Includes hardness check for NACE) or **-AP** suffix

Relief Valves: Pressures to 75,000 psi (5170 bar)

Cone and Thread Version: RVP Series



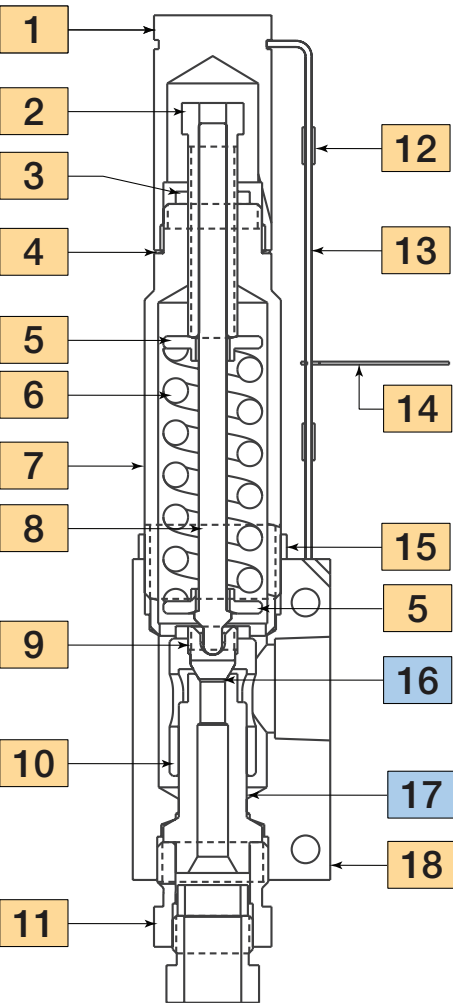
Material of Construction:

| Item # | Description | Material |
|--------|-------------------|------------------|
| 1 | Spring Washer | 316 SS |
| 2 | Spring | 316 SS |
| 3 | Spring Cylinder | 316 SS |
| 4 | Lock Nut | 316 SS |
| 5 | Spring Washer | 316 SS |
| 6 | Plug | 316 SS |
| 7 | Plug Guide | Nitronic 60 |
| 8 | Seat | 316 SS |
| 9 | Seat Gland | 316 SS |
| 10 | Splicing Sleeve | - |
| 11 | Adjusting Bolt | Nitronic 60 |
| 12 | Cap | 316 SS |
| 13 | Lock Nut | 316 SS |
| 14 | Gasket | 302/304 Annealed |
| 15 | Spindle | 316 SS |
| 16 | Cable, 1/16" Dia. | 300 Series SS |
| 17 | Nameplate | 300 Series SS |
| 18 | Splicing Sleeve | - |
| 19 | Lock Nut | 316 SS |
| 20 | Valve Body | 316 SS |

Typical spare parts found in Repair Kits listed on page 5

Relief Valves: Pressures to 75,000 psi (5170 bar)

Cone and Thread Version: RVS Series



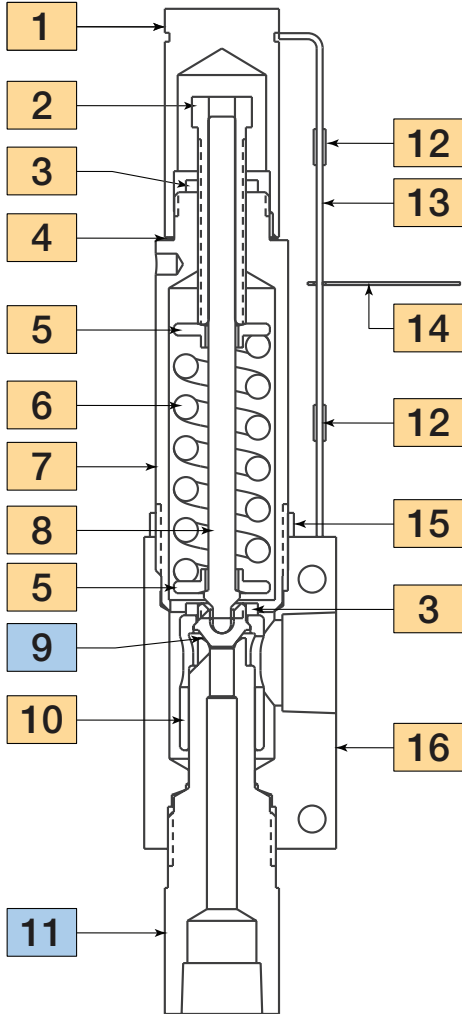
Material of Construction:

| Item # | Description | Material |
|--------|-----------------|-----------------|
| 1 | Cap | 300 Series SS |
| 2 | Adjusting Bolt | Nitronic 60 |
| 3 | Lock Nut | 316 SS |
| 4 | Gasket | 304 SS Annealed |
| 5 | Spring Washer | 316 SS |
| 6 | Spring | 316 SS |
| 7 | Spring Cylinder | 316 SS |
| 8 | Spindle | 316 SS |
| 9 | Plug Gland | 316 SS |
| 10 | Plug Guide | Nitronic 60 |
| 11 | Seat Gland | 316 SS |
| 12 | Splicing Sleeve | 316 SS |
| 13 | Cable | 316 SS |
| 14 | Nameplate | 304 SS |
| 15 | Lock Nut | 316 SS |
| 16 | Soft Seal | Arlon 1260 |
| 17 | Seat | 316 SS |
| 18 | Body | 304 SS |

Typical spare parts found in Repair Kits listed on page 5

Relief Valves: Pressures to 75,000 psi (5170 bar)

NPT Version: PRVP Series



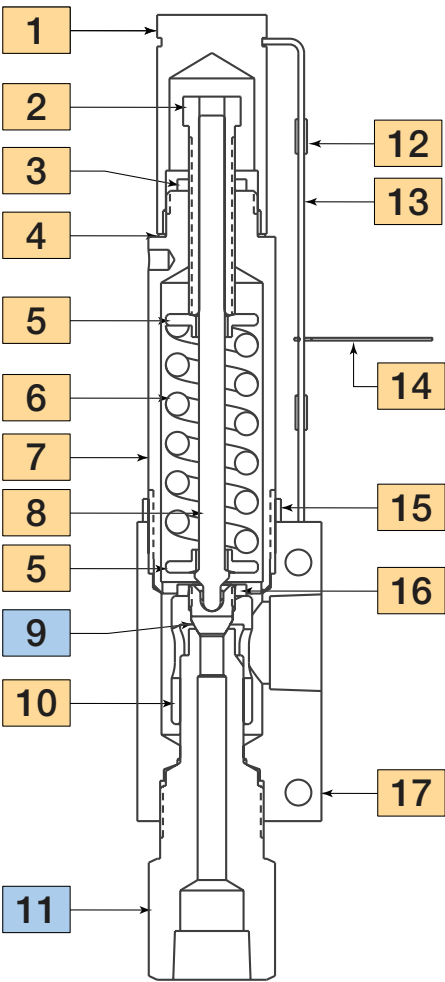
Material of Construction:

| Item # | Description | Material |
|--------|-----------------|-----------------|
| 1 | Cap | 316 SS |
| 2 | Adjusting Bolt | Nitronic 60 |
| 3 | Lock Nut | 316 SS |
| 4 | Gasket | 304 SS Annealed |
| 5 | Spring Washer | 316 SS |
| 6 | Spring | 316 SS |
| 7 | Spring Cylinder | 316 SS |
| 8 | Spindle | 316 SS |
| 9 | Plug | 316 SS |
| 10 | Plug Guide | Nitronic 60 |
| 11 | Seat Gland | 316 SS |
| 12 | Splicing Sleeve | 316 SS |
| 13 | Cable | 316 SS |
| 14 | Nameplate | 304 SS |
| 15 | Lock Nut | 316 SS |
| 16 | Valve Body | 316 SS |

Typical spare parts found in Repair Kits listed on page 5.

Relief Valves: Pressures to 75,000 psi (5170 bar)

NPT Version: PRVS Series

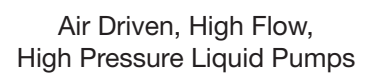
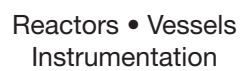
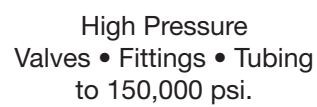


Material of Construction:

| Item # | Description | Material |
|--------|-----------------|-----------------|
| 1 | Cap | 316 SS |
| 2 | Adjusting Bolt | Nitronic 60 |
| 3 | Lock Nut | 316 SS |
| 4 | Gasket | 304 SS Annealed |
| 5 | Spring Washer | 316 SS |
| 6 | Spring | 316 SS |
| 7 | Spring Cylinder | 316 SS |
| 8 | Spindle | 316 SS |
| 9 | Soft Seat | Arlon 1263 |
| 10 | Plug Guide | Nitronic 60 |
| 11 | Seat | 316 SS |
| 12 | Splicing Sleeve | 316 SS |
| 13 | Cable | 316 SS |
| 14 | Nameplate | 304 SS |
| 15 | Lock Nut | 316 SS |
| 16 | Lock Nut | 316 SS |
| 17 | Body | 316 SS |

Typical spare parts found in Repair Kits listed on page 5.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins or other markings on the paper.



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|  CLIMATE CONTROL | Agriculture Food, Beverage and Dairy Precision Cooling Transportation | Air Conditioning Life Sciences & Medical Processing | Co2 Controls Electronic Controllers Filter Driers Hand Shut-Off Valves Hose & Fittings | Pressure Regulating Valves Refrigerant Distributors Safety Relief Valves Solenoid Valves Thermostatic Expansion Valves |
|  ELECTRO-MECHANICAL | Aerospace Life Science & Medical Packaging Machinery Plastics Machinery & Converting Semiconductor & Electronics Factory Automation | Machine Tools Paper Machinery Primary Metals Textile Wire & Cable | AC/DC Drives & Systems Electric Actuators, Gantry Robots & Slides Electrohydraulic Actuation Systems Electromechanical Actuation Systems Human Machine Interface | Linear Motors Stepper Motors, Servo Motors Drives & Controls Structural Extrusions |
|  FILTRATION | Food & Beverage Life Sciences Mobile Equipment Power Generation Transportation | Industrial Machinery Marine Oil & Gas Process | Analytical Gas Generators Compressed Air & Gas Filters Condition Monitoring Engine Air, Fuel & Oil Filtration & Systems | Hydraulic, Lubrication & Coolant Filters Process, Chemical, Water Microfiltration Filters Nitrogen, Hydrogen & Zero Air Generators |
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|  HYDRAULICS | Aerospace Aerial lift Agriculture Construction Machinery Forestry | Industrial Machinery Mining Oil & Gas Power Generation & Energy Truck Hydraulics | Diagnostic Equipment Hydraulic Cylinders & Accumulators Hydraulic Motors & Pumps Hydraulic Systems Hydraulic Valves & Controls | Power Take-Offs Rubber & Thermoplastic Hose & Couplings Tube Fittings & Adapters Quick Disconnects |
|  PNEUMATICS | Aerospace Conveyor & Material Handling Factory Automation Life Science & Medical | Machine Tools Packaging Machinery Transportation & Automotive | Air Preparation Brass Fittings & Valves Manifolds Pneumatic Accessories Pneumatic Actuators & Grippers Pneumatic Valves & Controls | Quick Disconnects Rotary Actuators Rubber & Thermoplastic Hose & Couplings Structural Extrusions Thermoplastic Tubing & Fittings Vacuum Generators, Cups & Sensors |
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Parker Worldwide

North America

USA – Corporate, Cleveland, OH
Tel: +1 256 896 3000

USA – IPD, Huntsville, AL
Tel: +1 256 881 2040
ipdcct@parker.com

USA – IPD, (Autoclave), Erie, PA
Tel: +1 814 860 5700
ipdaect@parker.com

CA – Canada, Grimsby, Ontario
Tel: +1 905-945-2274
ipd_canada@parker.com

South America

AR – Argentina, Buenos Aires
Tel: +54 3327 44 4129
falecom@parker.com

BR – Brazil, Diadema, SP
Tel: +55 11 4360 6700
falecom@parker.com

CL – Chile, Santiago
Tel: +56 (0) 2 2303 9640
falecom@parker.com

MX – Mexico, Toluca
Tel: +52 722 275 4200
contacto@parker.com

Asia Pacific

AU – Australia, Dandenong
Tel: +61 (0)2 9842 5150
customer.service.au@parker.com

CN – China, Shanghai
Tel: +86 21 2899 5000
INGtechnical.china@parker.com

HK – Hong Kong
Tel: +852 2428 8008

IN – India, Mumbai
Tel: +91 22 6513 7081-85

ID – Indonesia, Tangerang
Tel: +62 2977 7900
parker.id@parker.com

JP – Japan, Tokyo
Tel: +81 (1) 3 6365 4020
infophj@parker.com

KR – South Korea, Seoul
Tel: +82 2 559 0400
parkerkr@parker.com

MY – Malaysia, Selangor
Tel: +603 784 90 800
parkermy@parker.com

SG – Singapore,
Tel: +65 6887 6300
parker.sg@parker.com

TH – Thailand, Bangkok
Tel: +66 2 186 7000
phthailand@parker.com

TW – Taiwan, Taipei
Tel: +886 2 2298 8987
enquiry.taiwan@parker.com

VN – Vietnam, Hochi Minh City
Tel: +848 382 508 56
parker_viet@parker.com

Europe, Middle East, Africa

AE – UAE, Dubai
Tel: +971 4 812 7100
parker.me@parker.com

AT – Austria, Wiener Neustadt
Tel: +43 (0)2622 23501-0
parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt
Tel: +43 (0)2622 23501 900
parker.easteurope@parker.com

AZ – Azerbaijan, Baku
Tel: +994 50 2233 458
parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles
Tel: +32 (0)67 280 900
parker.belgium@parker.com

BG – Bulgaria, Sofia
Tel: +359 2 980 1344
parker.bulgaria@parker.com

BY – Belarus, Minsk
Tel: +48 (0)22 573 24 00
parker.belarus@parker.com

CH – Switzerland, Etoy
Tel: +41 (0) 21 821 87 00
parker.switzerland@parker.com

CZ – Czech Republic, Klecany
Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst
Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup
Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid
Tel: +34 902 33 00 01
parker.spain@parker.com

FI – Finland, Vantaa
Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve
Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Athens
Tel: +30 210 933 6450
parker.greece@parker.com

HU – Hungary, Budapest
Tel: +36 223 885 470
parker.hungary@parker.com

IE – Ireland, Dublin
Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IT – Italy, Corsico (MI)
Tel: +39 02 45 19 21
parker.italy@parker.com

KZ – Kazakhstan, Almaty
Tel: +7 7273 561 000
parker.easteurope@parker.com

NL – The Netherlands, Oldenzaal
Tel: +31 (0)541 585 000
parker.nl@parker.com

NO – Norway, Stavanger
Tel: +47 66 75 34 00
parker.norway@parker.com

PL – Poland, Warsaw
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal, Leca da Palmeira
Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest
Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow
Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga
Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SK – Slovakia, Banská Bystrica
Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto
Tel: +386 7 337 6650
parker.slovenia@parker.com

TR – Turkey, Istanbul
Tel: +90 216 4997081
parker.turkey@parker.com

UA – Ukraine, Kiev
Tel: +48 (0)22 573 24 00
parker.ukraine@parker.com

UK – United Kingdom, Warwick
Tel: +44 (0)1926 317 878
parker.uk@parker.com

ZA – South Africa, Kempton Park
Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

! CAUTION !

Do not mix or interchange component parts or tubing with those of other manufacturers. Doing so is unsafe and will void warranty.

Parker Autoclave Engineers Valves, Fittings, and Tools are not designed to interface with common commercial instrument tubing and are designed to only connect with tubing manufactured to Parker Autoclave Engineers AES specifications. Failure to do so is unsafe and will void warranty.

WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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Instrumentation Products Division
Autoclave Engineers Operation
8325 Hessinger Drive
Erie, PA 16509-4679
Tel: 814 860 5700
Fax: 814 860 5811
www.autoclave.com
www.parker.com/ipd

Instrumentation Products Division
Division Headquarters
1005 A Cleaner Way
Huntsville, AL 35805 USA
Tel: 256 881 2040
Fax: 256 881 5072

Parker Hannifin Manufacturing Ltd.
Instrumentation Products Division,
Europe
Riverside Road
Pottington Business Park
Barnstaple, UK, EX31 1NP, UK
Tel: 44 1271 313131
Fax: 44 1271 373636