

Wellmark Series 2600

W2601 and W2602 Safety Relief Valves

Application

2600 Series Safety Relief Valves are for general purpose gas, air and liquid services. They are recommended for over-pressure protection on separators, compressors, pressure vessels, heater treaters, gathering and transmission lines, meter runs and other systems where the rated capacities of the valve are commensurate with the requirements of the system. The 2600 Series is manufactured in accordance with the ASME Boiler and Pressure Vessel Code and has been capacity tested and certified by the National Board to meet the requirements of Section VIII of the ASME Code, as signified accordingly by the symbols "UV" and "NB" on their nameplates.

Features

- Choice of multiple orifice sizes
- ASME Coded: "UV" Section VII air/gas and liquid
- Enhanced guided lift system: optimum performance
- Trim option: soft seat
- High volume applications
- Low pressure applications
- Stainless steel internals
- NACE option available

Specifications

Type W2601-1" Size

Type W2602-2" Size

Soft resilient seat

Multiple orifices available:

- C-.295" Diameter (1" gas valve only)
- D-.400" Diameter (1" valve only)
- E-.534" Diameter (1" or 2" valve)
- F-.672" Diameter (2" valve)
- G-.857" Diameter (2" valve)



Threaded Safety Relief Valves

Model code

Determining the model number

Example given: Model 2601 EV1-311N-300-Series 2601 1" Safety Relief Valve with .534" Orifice Diameter, Viton® Seats, WCB Carbon Steel Bonnet, A105 Carbon Steel Frame, 1" Male NPT Threaded Inlets and 1" Female NPT Threaded Outlets, NACE Compliance and 300 psig spring.

W2601-EV1-311N-300



A

| BONNET GROUP | |
|--------------|------------|
| W2601 | 1" Air/Gas |
| W2602 | 2" Air/Gas |
| W2601L | 1" Liquid |
| W2602L | 2" Liquid |

D

| BONNET/SEAT FRAME MATERIAL | |
|----------------------------|-----------------------------------|
| 1 | CS (WCB)/CS (A105)* (-29°F/400°F) |
| 2 | CS (WCB)/316 SS (-29°F/400°F) |
| 3 | SS (CF8M)/316 SS (-58°F/400°F) |

F

| INLET CONNECTION | |
|------------------|---------------------|
| 1 | Male NPT Threaded * |

B

| ORIFICE SIZE | |
|--------------|--------------------------------|
| C | .265" Dia. (1" gas valve only) |
| D | .400" Dia. (1" valve only) |
| E | .534" Dia. (1" or 2" valve) |
| F | .672" Dia. (2" valve only) |
| G | .857" Dia. (2" valve only) |

E

| INLET X OUTLET SIZE | |
|---------------------|----------------------------|
| 1 | 1/2" x 1" ⁽¹⁾ |
| 2 | 3/4" x 1" |
| 3 | 1" x 1" * |
| 4 | 1" x 1-1/2" |
| 5 | 1-1/4" x 2" ⁽²⁾ |
| 6 | 1-1/2" x 2" |
| 7 | 2" x 2" * |

G

| OUTLET CONNECTION | |
|-------------------|-----------------------|
| 1 | Female NPT Threaded * |

H

| OPTIONS | |
|---------|-----------------|
| G | 1/4" Gauge Port |
| N | NACE Compliant |

I

| SPRING SIZE | |
|--|--|
| See chart below Use upper end of spring range | |

C

| SEAT MATERIAL | |
|---------------|--------------------------------|
| B | Buna-N (Nitrile) (-20°F/250°F) |
| V | Buna-N (Nitrile) (-20°F) |

* Denotes standard offering.

IMPORTANT NOTE:

The following options are no longer available

- (1) Series W2601 with 1/2" Inlet Size combined with "E" Orifice. Select "C" or "D" Orifice as Alternative
- (2) Series W2602 with 1-1/4" Inlet Size combined with "F" or "G" Orifices. Select "E" Orifice as Alternative

| SPECIFICATION | ORIFICE DESIGNATION | | | | |
|------------------------------|---------------------|-------------|-------------------------|----------|----------|
| | C | D | E | F | G |
| ORIFICE DIAMETER (IN.) | 0.295 | 0.400 | 0.534 | 0.672 | 0.857 |
| ORIFICE AREA (A) (SQ. IN.) | 0.068 | 0.126 | 0.224 | 0.355 | 0.577 |
| INLET SIZE AVAILABLE (IN.) | 1/2, 3/4, 1 | 1/2, 3/4, 1 | 3/4, 1, 1-1/4, 1-1/2, 2 | 1-1/2, 2 | 1-1/2, 2 |
| OUTLET SIZE AVAILABLE (IN.) | 1, 1-1/2 | 1, 1-1/2 | 1, 1-1/2, 2 | 2 | 2 |
| PRESSURE RANGES (PSIG) | 15-2500 | 15-2500 | 15-2500 | 15-1600 | 75-1000 |
| FLOW COEFFICIENT (K) AIR/GAS | 0.859 | 0.859 | 0.859 | 0.859 | 0.859 |
| FLOW COEFFICIENT (K) LIQUID | N/A | 0.628 | 0.628 | 0.628 | 0.628 |

| ORIFICE SIZE | SERVICE | ORIFICE DIAMETER | ORIFICE AREA (A) | SPRING RANGES (PSIG) - USE UPPER END OF SPRING RANGE | | | | | | | |
|--------------|---------|------------------|------------------|--|-------|--------|---------|----------|-----------|-----------|-----------|
| 1" | C | AIR/GAS | 0.295 | 0.068 | 15-80 | 80-250 | 250-400 | 400-800 | 800-1600 | 1600-2500 | — |
| | D | AIR/GAS & LIQUID | 0.400 | | | | | | | | |
| | E | AIR/GAS & LIQUID | 0.534 | 0.224 | 15-50 | 50-150 | 150-300 | 300-500 | 500-1000 | 1000-2500 | — |
| 2" | E | AIR/GAS & LIQUID | 0.534 | 0.224 | 15-75 | 75-250 | 250-500 | 500-1200 | 1200-2500 | — | — |
| | F | AIR/GAS | 0.672 | 0.355 | 15-40 | 40-200 | 200-400 | 400-800 | 800-1600 | — | — |
| | G | AIR/GAS | 0.857 | 0.577 | — | 75-100 | 100-200 | 200-600 | 600-1000 | 1000-1500 | — |
| | F | LIQUID | 0.672 | 0.355 | 15-40 | 40-70 | 70-200 | 200-400 | 400-530 | 530-800 | 800-1600 |
| | G | LIQUID | 0.857 | 0.577 | — | 75-125 | 125-250 | 250-400 | 400-600 | 600-1000 | 1000-1500 |

Relieving capacity for air - (10% overpressure) capacities in standard cubic feet per minute at 60° F

| Set Pressure | Orifice Diameter (in.) / Area (sq. in.) | | | | | |
|--------------|---|-------------|-------------|-------------|---------------|-----|
| | C | D | E | F | G | |
| | 0.295/0.068 | 0.400/0.126 | 0.534/0.224 | 0.672/0.355 | 0.857/0.577 | |
| 15 | 33 | 61 | 110 | 174 | NOT AVAILABLE | |
| 20 | 39 | 72 | 129 | 205 | | |
| 25 | 45 | 83 | 148 | 235 | | |
| 30 | 51 | 94 | 168 | 266 | | |
| 40 | 62 | 116 | 207 | 328 | | |
| 50 | 74 | 138 | 245 | 389 | | |
| 60 | 86 | 160 | 284 | 451 | | |
| 70 | 98 | 181 | 323 | 512 | | |
| 75 | 104 | 192 | 342 | 543 | | 882 |
| 80 | 109 | 203 | 362 | 573 | | 932 |
| 90 | 121 | 225 | 400 | 635 | 1032 | |
| 100 | 133 | 247 | 439 | 696 | 1132 | |
| 125 | 162 | 301 | 536 | 850 | 1382 | |
| 150 | 192 | 356 | 633 | 1004 | 1632 | |
| 175 | 221 | 411 | 730 | 1158 | 1882 | |
| 200 | 251 | 465 | 827 | 1311 | 2132 | |
| 250 | 310 | 574 | 1021 | 1619 | 2631 | |
| 275 | 339 | 629 | 1118 | 1773 | 2881 | |
| 300 | 369 | 683 | 1215 | 1926 | 3131 | |
| 350 | 427 | 792 | 1409 | 2233 | 3630 | |
| 400 | 486 | 901 | 1603 | 2541 | 4130 | |
| 450 | 545 | 1011 | 1797 | 2848 | 4630 | |
| 500 | 604 | 1120 | 1991 | 3156 | 5129 | |
| 550 | 663 | 1229 | 2185 | 3463 | 5629 | |
| 600 | 722 | 1338 | 2379 | 3770 | 6129 | |
| 650 | 781 | 1447 | 2573 | 4078 | 6628 | |
| 700 | 840 | 1556 | 2767 | 4385 | 7128 | |
| 720 | 863 | 1600 | 2845 | 4509 | 7329 | |
| 750 | 898 | 1665 | 2961 | 4693 | 7627 | |
| 800 | 957 | 1774 | 3155 | 5000 | 8127 | |
| 850 | 1016 | 1883 | 3349 | 5307 | 8627 | |
| 900 | 1075 | 1993 | 3543 | 5615 | 9126 | |
| 950 | 1134 | 2102 | 3737 | 5922 | 9626 | |

| Set Pressure | Orifice Diameter (in.) / Area (sq. in.) | | | | |
|--------------|---|-------------|-------------|-------------|---------------|
| | C | D | E | F | G |
| | 0.295/0.068 | 0.400/0.126 | 0.534/0.224 | 0.672/0.355 | 0.857/0.577 |
| 1000 | 1193 | 2211 | 3931 | 6230 | 10,126 |
| 1050 | 1252 | 2320 | 4125 | 6537 | 10,627 |
| 1100 | 1311 | 2429 | 4319 | 6844 | 11,126 |
| 1150 | 1370 | 2538 | 4513 | 7152 | 11,626 |
| 1200 | 1428 | 2647 | 4706 | 7459 | 12,126 |
| 1250 | 1487 | 2756 | 4900 | 7767 | 12,626 |
| 1300 | 1546 | 2865 | 5094 | 8074 | 13,125 |
| 1350 | 1605 | 2974 | 5288 | 8381 | 13,625 |
| 1400 | 1664 | 3084 | 5482 | 8689 | 14,125 |
| 1440 | 1711 | 3171 | 5638 | 8936 | 14,524 |
| 1450 | 1723 | 3193 | 5676 | 8996 | 14,624 |
| 1500 | 1782 | 3302 | 5870 | 9304 | 15,124 |
| 1550 | 1841 | 3411 | 6064 | 9611 | NOT AVAILABLE |
| 1600 | 1899 | 3520 | 6258 | 9918 | |
| 1650 | 1958 | 3629 | 6452 | | |
| 1700 | 2017 | 3738 | 6646 | | |
| 1750 | 2076 | 3847 | 6840 | | |
| 1800 | 2135 | 3956 | 7034 | | |
| 1850 | 2194 | 4066 | 7228 | | |
| 1900 | 2253 | 4175 | 7422 | | |
| 1950 | 2312 | 4284 | 7616 | | |
| 2000 | 2371 | 4393 | 7810 | | |
| 2050 | 2429 | 4502 | 8004 | | |
| 2100 | 2488 | 4611 | 8198 | | |
| 2150 | 2547 | 4720 | 8392 | | |
| 2160 | 2559 | 4743 | 8432 | | |
| 2200 | 2606 | 4829 | 8586 | | |
| 2250 | 2665 | 4938 | 8780 | | |
| 2300 | 2724 | 5047 | 8974 | | |
| 2350 | 2783 | 5157 | 9168 | | |
| 2400 | 2842 | 5266 | 9362 | | |
| 2450 | 2900 | 5375 | 9556 | | |
| 2500 | 2959 | 5484 | 9750 | | |

Sizing of Safety Relief Valves

Given certain information as follows, Safety Relief Valves may be sized by use of various formulas prescribed by Appendix 11, Section VIII, Division I of the ASME Boiler and Pressure Vessel Code for capacities of orifices. The information as shown below allows sizing using the coefficient method.

Table I – Molecular weight and values of C for gases

| Gas | M | C |
|-------------------|-------|-----|
| Air | 28.97 | 356 |
| Acetylene | 26.04 | 345 |
| Ammonia | 17.03 | 351 |
| Butane | 58.12 | 324 |
| Carbon Dioxide | 44.01 | 345 |
| Chlorine | 70.91 | 352 |
| Ethane | 30.07 | 339 |
| Ethylene | 28.05 | 337 |
| Freon 22 | 86.48 | 355 |
| Hydrogen | 2.02 | 356 |
| Hydrogen Sulfide | 34.08 | 348 |
| Methane | 16.04 | 346 |
| Methyl Chloride | 50.48 | 337 |
| Natural Gas (0.6) | 17.40 | 344 |
| Nitrogen | 28.02 | 356 |
| Oxygen | 32.00 | 356 |
| Propane | 44.09 | 331 |
| Sulfur Dioxide | 64.06 | 342 |

Relieving capacity formula coefficient method

$$Q \text{ (SCFM)} = \frac{KACP}{w \times 60} \sqrt{\frac{M}{T}}$$

A = Effective Flow Area (Orifice Area in sq. in.)

C = Gas Constant

K = Flow Coefficient

M = Molecular Weight

P = Flowing pressure (set pressure x 1.1 + 14.7 psia)

Q = Flow Rate in SCFM for gases

T = Absolute temperature in degrees Rankin (°F + 460)

w = Density of the gas in lb./ft.³ (Air = .0764 @ 14.7 psia)

Relieving capacity for water - (10% overpressure) capacities in gallons per minute.

| Set Pressure | Orifice Diameter (in.) / Area (sq. in.) | | | | |
|--------------|---|------------------|------------------|------------------|-----|
| | D 0.400/0.126 | E 0.534/0.224 | F 0.672/0.355 | G 0.857/0.577 | |
| 15 | 13 | 23 | 36 | NOT AVAILABLE | |
| 20 | 14 | 26 | 41 | | |
| 25 | 16 | 28 | 45 | | |
| 30 | 17 | 31 | 49 | | |
| 40 | 20 | 35 | 56 | | |
| 50 | 22 | 40 | 63 | | |
| 60 | 24 | 43 | 69 | | |
| 70 | 26 | 47 | 74 | | |
| 75 | 27 | 49 | 77 | | 125 |
| 80 | 28 | 50 | 79 | | 129 |
| 90 | 30 | 53 | 84 | 137 | |
| 100 | 32 | 56 | 89 | 144 | |
| 125 | 35 | 63 | 99 | 161 | |
| 150 | 39 | 69 | 109 | 177 | |
| 175 | 42 | 74 | 118 | 191 | |
| 200 | 45 | 79 | 126 | 204 | |
| 250 | 50 | 89 | 140 | 228 | |
| 275 | 52 | 93 | 147 | 239 | |
| 300 | 55 | 97 | 154 | 250 | |
| 350 | 59 | 105 | 166 | 270 | |
| 400 | 63 | 112 | 178 | 289 | |
| 450 | 67 | 119 | 188 | 306 | |
| 500 | 71 | 125 | 199 | 323 | |
| 550 | 74 | 131 | 208 | 339 | |
| 600 | 77 | 137 | 218 | 354 | |
| 650 | 80 | 143 | 227 | 368 | |
| 700 | 83 | 148 | 235 | 382 | |
| 720 | 85 | 150 | 238 | 388 | |
| 750 | 86 | 154 | 243 | 395 | |
| 800 | 89 | 159 | 251 | 408 | |
| 850 | 92 | 163 | 259 | 421 | |
| 900 | 95 | 168 | 267 | 433 | |
| 950 | 97 | 173 | 274 | 445 | |

| Set Pressure | Orifice Diameter (in.) / Area (sq. in.) | | | |
|--------------|---|------------------|------------------|------------------|
| | D 0.400/0.126 | E 0.534/0.224 | F 0.672/0.355 | G 0.857/0.577 |
| 1000 | 100 | 177 | 281 | 457 |
| 1050 | 102 | 182 | 288 | 468 |
| 1100 | 105 | 186 | 295 | 479 |
| 1150 | 107 | 190 | 301 | 490 |
| 1200 | 109 | 194 | 308 | 500 |
| 1250 | 111 | 198 | 314 | 511 |
| 1300 | 114 | 202 | 320 | 521 |
| 1350 | 116 | 206 | 326 | 531 |
| 1400 | 118 | 210 | 332 | 540 |
| 1440 | 120 | 213 | 337 | 548 |
| 1450 | 120 | 213 | 338 | 550 |
| 1500 | 122 | 217 | 344 | 559 |
| 1550 | 124 | 221 | 350 | NOT AVAILABLE |
| 1600 | 126 | 224 | 355 | |
| 1650 | 128 | 228 | | |
| 1700 | 130 | 231 | | |
| 1750 | 132 | 235 | | |
| 1800 | 134 | 238 | | |
| 1850 | 136 | 241 | | |
| 1900 | 137 | 244 | | |
| 1950 | 139 | 248 | | |
| 2000 | 141 | 251 | | |
| 2050 | 143 | 254 | | |
| 2100 | 145 | 257 | | |
| 2150 | 146 | 260 | | |
| 2160 | 147 | 261 | | |
| 2200 | 148 | 263 | | |
| 2250 | 150 | 266 | | |
| 2300 | 151 | 269 | | |
| 2350 | 153 | 272 | | |
| 2400 | 154 | 275 | | |
| 2450 | 156 | 278 | | |
| 2500 | 158 | 280 | | |

Sizing of Safety Relief Valves

Given certain information as follows, Safety Relief Valves may be sized by use of various formulas prescribed by Appendix 11, Section VIII, Division I of the ASME Boiler and Pressure Vessel Code for capacities of orifices. The information as shown below allows sizing using the coefficient method.

Specific Gravity of Common Liquids

| Liquid | Specific Gravity |
|----------------|------------------|
| Ammonia | 0.606 |
| Benzene | 0.883 |
| Butane | 0.558 |
| Carbon Dioxide | 0.683 |
| Engine Oil | 0.887 |
| Ethanol | 0.786 |
| Gasoline | 0.752 |
| Glycerine | 1.265 |
| Kerosene | 0.818 |
| Methanol | 0.789 |
| N-Octane | 0.695 |
| Propane | 0.511 |
| R-12 | 1.315 |
| R-22 | 1.195 |
| R-134a | 1.211 |
| Water | 1.000 |

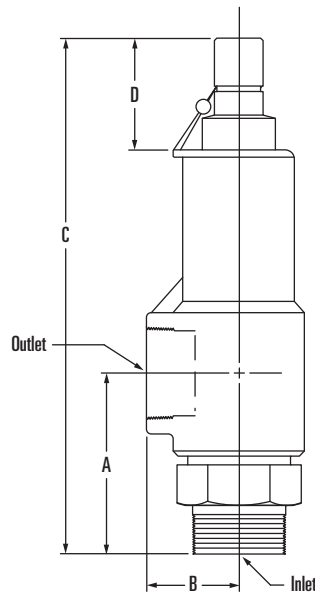
Relieving capacity formula coefficient method

$$Q \text{ (GPM)} = 38 KA \sqrt{\frac{P - P_d}{G}}$$

- A = Effective Flow Area (Orifice Area in sq. in.)
- K = Flow Coefficient for Liquid (.628)
- P = Flowing pressure (set pressure x 1.1 + 14.7 psia)
- P_d = Discharge pressure (Pressure psia)
- G = Specific Gravity of fluid (Water = 1)

Dimensional data

W2601 and W2602 Safety relief valves



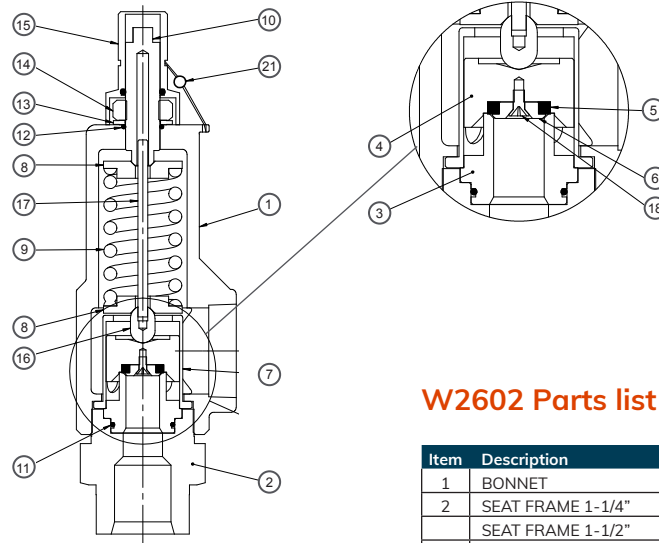
Threaded dimensional data

| Valve Configuration | Dimension (in.) | | | | Weight (lbs.) |
|---------------------|-----------------|------|-------|-------|---------------|
| | A | B | C | D | |
| 1/2" x 1" | 3.25 | 1.88 | 10.5 | 2.375 | 12 |
| 3/4" x 1" | | | | | |
| 1" x 1"* | | | | | |
| 1" x 1-1/2" | | | | | |
| 1-1/4" x 2" | 4.62 | 2.38 | 13.25 | 2.875 | 18 |
| 1-1/2" x 2" | | | | | |
| 2" x 2"*** | | | | | |

*Standard configuration for Series 2601.
 **Standard configuration for Series 2602.

Parts list

W2601 and W2602 Safety relief valves



W2601 Parts list

| Item | Description | Material | Qty. | Part No. |
|------|-------------------------------|-------------------|------|----------|
| 1 | BONNET | SA-216 GR.WCB CS | 1 | 1118928 |
| 2 | SEAT FRAME 1/2" | SA-105 FS | 1 | 1125964 |
| | SEAT FRAME 3/4" | SA-105 FS | 1 | 1126320 |
| | SEAT FRAME 1" | SA-105 FS | 1 | 1122293 |
| 3 | SEAT "C" ORIFICE | SA-276 TY. 316 SS | 1 | 1122294 |
| | SEAT "D" ORIFICE | SA-276 TY. 316 SS | 1 | 1122295 |
| | SEAT "E" ORIFICE | SA-276 TY. 316 SS | 1 | 1120643 |
| 4 | PLUG "C" AND "D" ORIFICE | SA-276 TY. 316 SS | 1 | 1123680 |
| | PLUG "E" ORIFICE | SA-276 TY. 316 SS | 1 | 1122297 |
| 5 | SQ. O-RING "C" AND "D" | VITON | 1 | 1145692 |
| | SQ. O-RING "E" | VITON | 1 | 1145693 |
| 6 | O-RING HOLDER "C" AND "D" | SA-276 TY. 316 SS | 1 | 1145518 |
| | O-RING HOLDER "E" ORIFICE | SA-276 TY. 316 SS | 1 | 1145108 |
| 7 | PLUG GUIDE "C" AND "D" | SA-351 SS | 1 | 1123729 |
| | PLUG GUIDE "E" ORIFICE | SA-351 SS | 1 | 1125161 |
| 8 | SPRING GUIDE | SA-29 CS | 2 | 1124203 |
| 9 | SPRING "C" AND "D" 15-80# | 302 SS | 1 | 1122138 |
| | SPRING "C" AND "D" 80-250# | 302 SS | 1 | 1121795 |
| | SPRING "C" AND "D" 250-400# | 302 SS | 1 | 1120228 |
| | SPRING "C" AND "D" 400-800# | 302 SS | 1 | 1120127 |
| | SPRING "C" AND "D" 800-1600# | 17-7 SS | 1 | 1122741 |
| | SPRING "C" AND "D" 1600-2500# | 17-7 SS | 1 | 1123670 |
| | SPRING "E" 15-50# | 302 SS | 1 | 1122138 |
| | SPRING "E" 50-150# | 302 SS | 1 | 1121795 |
| | SPRING "E" 150-300# | 302 SS | 1 | 1120228 |
| | SPRING "E" 300-500# | 302 SS | 1 | 1120127 |
| | SPRING "E" 500-1000# | 17-7 SS | 1 | 1122741 |
| | SPRING "E" 1000-2500# | 17-7 SS | 1 | 1123670 |
| 10 | ADJUSTING SCREW | 307 CS | 1 | 1121900 |
| 11 | O-RING | VITON | 1 | 1032515 |
| 12 | O-RING | VITON | 1 | 1122133 |
| 13 | SEAL WASHER | SS/BUNA-N | 1 | 1124855 |
| 14 | JAM NUT | STEEL | 1 | 1123641 |
| 15 | CAP WITH O-RING | ALUMINUM / BUNA | 1 | 1126810 |
| 16 | GUIDE | SA-29 CS | 1 | 1122296 |
| 17 | GUIDE STEM | SA-29 CS | 1 | 1121682 |
| 18 | SCREW "C" AND "D" ORIFICE | 18-8 SS | 1 | 1120223 |
| | SCREW "E" ORIFICE | 18-8 SS | 1 | 1120637 |
| 19* | NAMEPLATE | 304 SS | 1 | 1150439 |
| 20* | DRIVE SCREW | 18-8 SS | 4 | 1032590 |
| 21 | SEAL WIRE AND LEAD | STEEL AND LEAD | 1 | 1125115 |

* NOT SHOWN

W2602 Parts list

| Item | Description | Material | Qty. | Part No. |
|------|---------------------------|-------------------|------|----------|
| 1 | BONNET | SA-216 GR.WCB CS | 1 | 1119673 |
| 2 | SEAT FRAME 1-1/4" | SA-105 FS | 1 | 1126846 |
| | SEAT FRAME 1-1/2" | SA-105 FS | 1 | 1124721 |
| | SEAT FRAME 2" | SA-105 FS | 1 | 1119647 |
| 3 | SEAT "E" ORIFICE | SA-276 TY. 316 SS | 1 | 1125290 |
| | SEAT "F" ORIFICE | SA-276 TY. 316 SS | 1 | 1123681 |
| | SEAT "G" ORIFICE | SA-276 TY. 316 SS | 1 | 1122691 |
| 4 | PLUG "E" ORIFICE | SA-276 TY. 316 SS | 1 | 1120250 |
| | PLUG "F" ORIFICE | SA-276 TY. 316 SS | 1 | 1125244 |
| | PLUG "G" ORIFICE | SA-276 TY. 316 SS | 1 | 1123252 |
| 5 | SQ. O-RING "E" ORIFICE | VITON | 1 | 1145693 |
| | SQ. O-RING "F" ORIFICE | VITON | 1 | 1145696 |
| | SQ. O-RING "G" ORIFICE | VITON | 1 | 1145697 |
| 6 | O-RING HOLDER "E" ORIFICE | SA-276 TY. 316 SS | 1 | 1145108 |
| | O-RING HOLDER "F" ORIFICE | SA-276 TY. 316 SS | 1 | 1145473 |
| | O-RING HOLDER "G" ORIFICE | SA-276 TY. 316 SS | 1 | 1145474 |
| 7 | PLUG GUIDE "E" ORIFICE | SA-351 SS | 1 | 1125790 |
| | PLUG GUIDE "F" ORIFICE | SA-351 SS | 1 | 1126370 |
| | PLUG GUIDE "G" ORIFICE | SA-351 / 316 SS | 1 | 1120897 |
| 8 | SPRING GUIDE | SA-29 CS | 2 | 1123682 |
| 9 | SPRING "E" 15-75# | 302 SS | 1 | 1121639 |
| | SPRING "E" 75-250# | 302 SS | 1 | 1119617 |
| | SPRING "E" 250-500# | 302 SS | 1 | 1121640 |
| | SPRING "E" 500-1200# | 302 SS | 1 | 1124356 |
| | SPRING "E" 1200-2500# | 17-7 SS | 1 | 1122251 |
| | SPRING "F" 15-40# | 302 SS | 1 | 1121639 |
| | SPRING "F" 40-200# | 302 SS | 1 | 1119617 |
| | SPRING "F" 200-400# | 302 SS | 1 | 1121640 |
| | SPRING "F" 400-800# | 302 SS | 1 | 1124356 |
| | SPRING "F" 800-1600# | 17-7 SS | 1 | 1122251 |
| | SPRING "G" 75-100# | 302 SS | 1 | 1119617 |
| | SPRING "G" 100-200# | 302 SS | 1 | 1121640 |
| | SPRING "G" 200-600# | 302 SS | 1 | 1124356 |
| | SPRING "G" 600-1000# | 17-7 SS | 1 | 1122251 |
| | SPRING "G" 1000-1500# | 17-7 SS | 1 | 1119093 |
| 10 | ADJUSTING SCREW | 307 CS | 1 | 1125245 |
| 11 | O-RING | VITON | 1 | 1022452 |
| 12 | O-RING | VITON | 1 | 1035982 |
| 13 | SEAL WASHER | SS/BUNA-N | 1 | 1122682 |
| 14 | JAM NUT | STEEL | 1 | 1122669 |
| 15 | CAP WITH O-RING | ALUMINUM / BUNA | 1 | 1126251 |
| 16 | GUIDE | SA-29 CS | 1 | 1122296 |
| 17 | GUIDE STEM | SA-29 CS | 1 | 1122235 |
| 18 | SCREW "E" ORIFICE | 18-8 SS | 1 | 1120637 |
| | SCREW "F" AND "G" ORIFICE | 18-8 SS | 1 | 1121893 |
| 19* | NAMEPLATE | 304 SS | 1 | 1150439 |
| 20* | DRIVE SCREW | 18-8 SS | 4 | 1032590 |
| 21 | SEAL WIRE AND LEAD | STEEL AND LEAD | 1 | 1125115 |

* NOT SHOWN

Why you can depend on genuine Norriseal-Wellmark products

- In-house engineering and technical support
- In-depth applications experience
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