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сайт: [oteco.nt-rt.ru](http://oteco.nt-rt.ru) || эл. почта: [oce@nt-rt.ru](mailto:oce@nt-rt.ru)

# OTECO Pressure Relief Valves



## Pressure Relief Valve (PRV) Overview

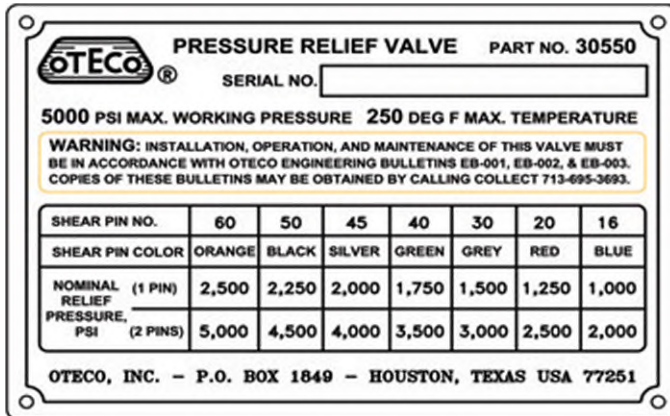
The OTECO PRV (shear type) helps ensure protection for slush pumps, manifolds, and other expensive components used in drilling operations. The PRV utilizes shear pins to relieve overpressure during drilling and other operations. Hardened stainless steel stems and stainless steel liner subs provide improved corrosion resistance resulting in higher reliability and longer valve life. With the OTECO PRV replacing shear pins is fast and easy because of the easy to remove safety cover. The OTECO PRV is available in 2 inch low, standard, and high pressure, as well as 3 inch high pressure models.

## PRV Features & Benefits

- A metal chart is installed on every valve detailing shear pin selection specifications.
- Hardened stainless steel stems and liner subs provide corrosion resistance.
- PRV relief valve parts are interchangeable with Cameron style shear relief valve parts.

| Size | Pressure Range |               | OTECO<br>Part# | DNV<br>Approved | Description                                   | Weight |        |
|------|----------------|---------------|----------------|-----------------|-----------------------------------------------|--------|--------|
|      | PSI            | (Bar)         |                |                 |                                               | Lbs.   | (kg)   |
| 2"   | 125-500        | (8.6-34.5)    | 132005         |                 | 20015, 2" L.P.T. Inlet X 1-1/2" L.P.T. Outlet | 23.5   | (10.7) |
| 2"   | 250-1,000      | (17.2-68.9)   | 132010         |                 | 20210, 2" L.P.T. Inlet X 1-1/2" L.P.T. Outlet | 23.5   | (10.7) |
| 2"   | 500-1,250      | (34.5-86.2)   | 132013         |                 | 20513, 2" L.P.T. Inlet & Outlet               | 26.1   | (11.8) |
| 2"   | 500-1,250      | (34.5-86.2)   | 132057         | DNV             | 20513, 2" Fig.1502 Female Inlet X Male Outlet | 45.0   | (20.4) |
| 2"   | 1,000-2,500    | (68.9-189.6)  | 132027         |                 | 21027, 2" L.P.T. Inlet & Outlet               | 26.5   | (12.0) |
| 2"   | 1,000-2,500    | (68.9-189.6)  | 132056         | DNV             | 21027, 2" Fig.1502 Female Inlet X Male Outlet | 45.4   | (20.6) |
| 2"   | 1,000-5,000    | (68.9-344.7)  | 132050         |                 | 21050, 2" L.P.T. Inlet & Outlet               | 26.6   | (12.1) |
| 2"   | 1,000-5,000    | (68.9-344.7)  | 132055         | DNV             | 21050, 2" Fig.1502 Female Inlet X Male Outlet | 45.5   | (20.6) |
| 2"   | 6,300-10,000   | (434.4-689.5) | 132100         |                 | 26010, 2" L.P.T. Inlet & Outlet               | 25.5   | (11.6) |
| 2"   | 6,300-10,000   | (434.4-689.5) | 132059         |                 | 26010, 2" Fig.1502 Female Inlet X Male Outlet | 44.4   | (20.1) |
| 3"   | 500-2,500      | (34.5-172.4)  | 133025         |                 | 30525, 3" L.P.T. Inlet & Outlet               | 70.0   | (31.8) |
| 3"   | 500-2,500      | (34.5-172.4)  | 133056         | DNV             | 30525, 3" Fig.1502 Female Inlet X Male Outlet | 121.0  | (54.9) |
| 3"   | 1,000-5,000    | (34.5-344.7)  | 133050         |                 | 30550, 3" L.P.T. Inlet & Outlet               | 71.5   | (32.4) |
| 3"   | 1,000-5,000    | (34.5-344.7)  | 133055         | DNV             | 30550, 3" Fig.1502 Female Inlet X Male Outlet | 121.0  | (54.9) |
| 3"   | 1,500-7,500    | (103.4-517.1) | 133075         |                 | 30575, 3" Fig.1502 Female Inlet X Male Outlet | 122.0  | (55.3) |

Oteco Pressure Relief Valves operate using our high quality Oteco Shear Pins. Precision ground, destructively tested throughout the manufacturing process, our shear pins offer the best accuracy and range on the market. Competitors that use nails cannot offer accurate pressure ranges.



| Part#  | Description              |
|--------|--------------------------|
| 140503 | PRV,SHEAR PIN,#3,BROWN   |
| 140504 | PRV.SHEAR PIN.#4.PINK    |
| 140506 | PRV,SHEAR PIN,#6,YELLOW  |
| 140508 | PRV.SHEAR PIN.#8.PURPLE  |
| 140512 | PRV.SHEAR PIN,#12,WHITE  |
| 140516 | PRV.SHEAR PIN,#16,BLUE   |
| 140520 | PRV.SHEAR PIN.#20.RED    |
| 140530 | PRV.SHEAR PIN,#30,GRAY   |
| 140540 | PRV.SHEAR PIN.#40.GREEN  |
| 140545 | PRV.SHEAR PIN,#45,SILVER |
| 140550 | PRV.SHEAR PIN,#50,BLACK  |
| 140560 | PRV.SHEAR PIN,#60.ORANGE |

PINS ARE SOLD IN QUANTITY OF 10.

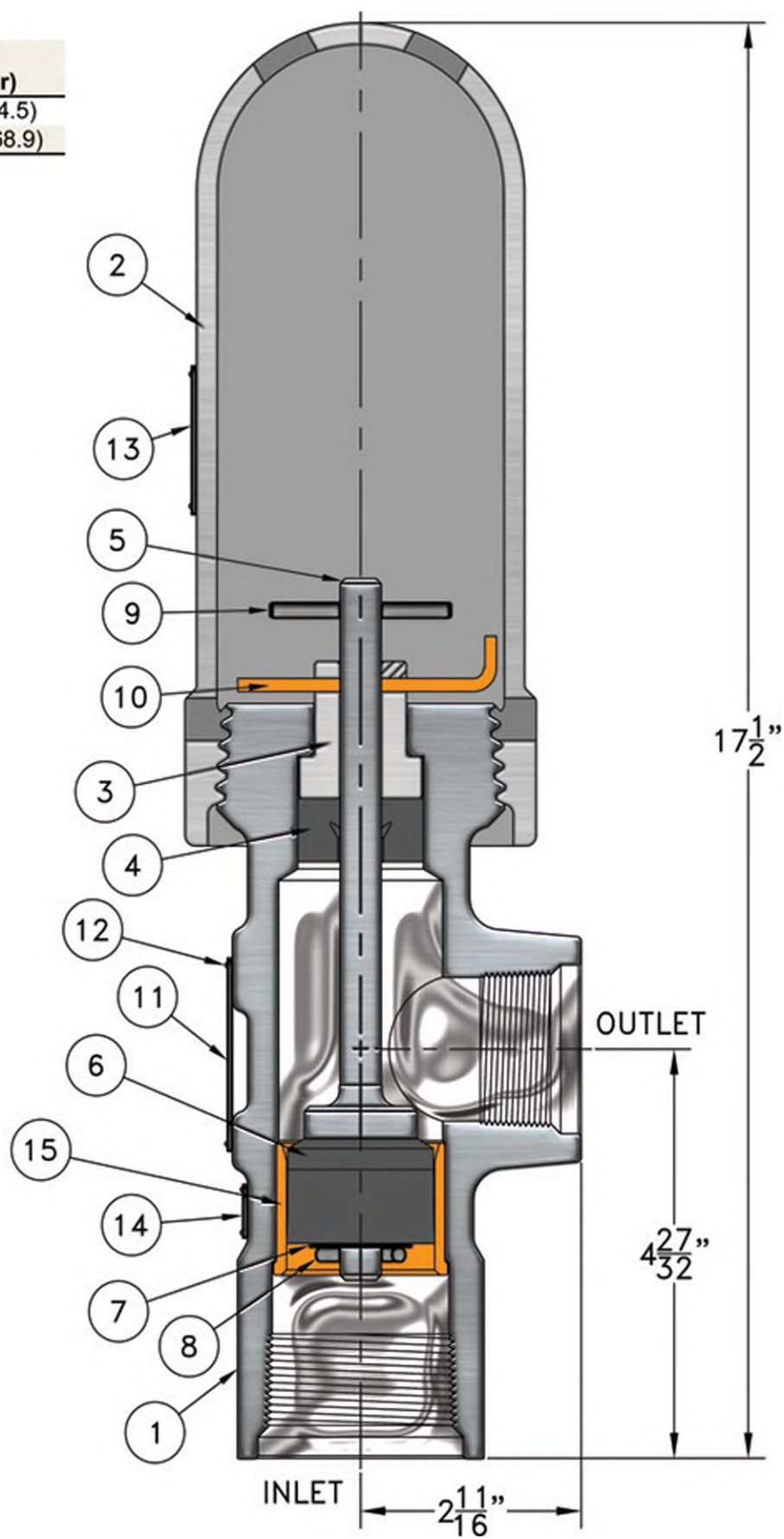
#### LOW PRESSURE - NOMINAL RELIEF PRESSURE SETTINGS

|              |       | SHEAR PIN #     |  | 3      | 4      | 6      | 8      | 12     | 16     |
|--------------|-------|-----------------|--|--------|--------|--------|--------|--------|--------|
|              |       | SHEAR PIN COLOR |  | BROWN  | PINK   | YELLOW |        | WHITE  | BLUE   |
| 2" PRV-20015 | 1 PIN | PSI             |  | 125    | 200    | 250    | 300    | 425    | 500    |
|              |       | (Bar)           |  | (8-6)  | (13.8) | (17.2) | (20.7) | (29.3) | (34.5) |
| 2" PRV-20210 | 1 PIN | PSI             |  | 250    | 400    | 500    | 600    | 850    | 1,000  |
|              |       | (Bar)           |  | (17.2) | (27.6) | (34.5) | (41.4) | (58.6) | (68.9) |

#### HIGH PRESSURE - NOMINAL RELIEF PRESSURE SETTINGS

|              |        | SHEAR PIN #     |  | 16      | 20      | 30      | 40      | 45      | 50      | 60      |
|--------------|--------|-----------------|--|---------|---------|---------|---------|---------|---------|---------|
|              |        | SHEAR PIN COLOR |  | BLUE    | RED     | GREY    | GREEN   |         | BLACK   | ORANGE  |
| 2" PRV-20513 | 1 PIN  | PSI             |  | 500     | 625     | 750     | 875     | 1,000   | 1,125   | 1,250   |
|              |        | (Bar)           |  | (34.5)  | (43.1)  | (51.7)  | (60.3)  | (68.9)  | (77.6)  | (86.2)  |
| 2" PRV-21027 | 1 PIN  | PSI             |  | 1,000   | 1,250   | 1,500   | 1,750   | 2,000   | 2,250   | 2,500   |
|              |        | (Bar)           |  | (68.9)  | (86.2)  | (103.4) | (120.7) | (137.9) | (155.1) | (172.4) |
| 2" PRV-21050 | 1 PIN  | PSI             |  | 1,000   | 1,250   | 1,500   | 1,750   | 2,000   | 2,250   | 2,500   |
|              |        | (Bar)           |  | (68.9)  | (86.2)  | (103.4) | (120.7) | (137.9) | (155.1) | (172.4) |
|              | 2 PINS | PSI             |  | 2,000   | 2,500   | 3,000   | 3,500   | 4,000   | 4,500   | 5,000   |
|              |        | (Bar)           |  | (137.9) | (172.4) | (206.8) | (241.3) | (275.8) | (310.3) | (344.7) |
| 2" PRV-26010 | 1 PIN  | PSI             |  | 6,200   | 8,600   | 10,000  | NA      | NA      | NA      | NA      |
|              |        | (Bar)           |  | (427.5) | (592.9) | (689.5) | NA      | NA      | NA      | NA      |
| 3" PRV-30525 | 1 PIN  | PSI             |  | 500     | 625     | 750     | 875     | 1,000   | 1,125   | 1,250   |
|              |        | (Bar)           |  | (34.5)  | (43.1)  | (51.7)  | (60.3)  | (68.9)  | (77.6)  | (86.2)  |
|              | 2 PINS | PSI             |  | 1,000   | 1,250   | 1,500   | 1,750   | 2,000   | 2,250   | 2,500   |
|              |        | (Bar)           |  | (68.9)  | (86.2)  | (103.4) | (120.7) | (137.9) | (155.1) | (172.4) |
| 3" PRV-30550 | 1 PIN  | PSI             |  | 1,000   | 1,250   | 1,500   | 1,750   | 2,000   | 2,250   | 2,500   |
|              |        | (Bar)           |  | (68.9)  | (86.2)  | (103.4) | (120.7) | (137.9) | (155.1) | (172.4) |
|              | 2 PINS | PSI             |  | 2,000   | 2,500   | 3,000   | 3,500   | 4,000   | 4,500   | 5,000   |
|              |        | (Bar)           |  | (137.9) | (172.4) | (206.8) | (241.3) | (275.8) | (310.3) | (344.7) |
| 3" PRV-30575 | 1 PIN  | PSI             |  | 1,500   | 1,875   | 2,250   | 2,625   | 3,000   | 3,375   | 3,750   |
|              |        | (Bar)           |  | (103.4) | (129.3) | (155.1) | (181)   | (206.8) | (232.7) | (258.6) |
|              | 2 PINS | PSI             |  | 3,000   | 3,750   | 4,500   | 5,250   | 6,000   | 6,750   | 7,500   |
|              |        | (Bar)           |  | (206.8) | (258.6) | (310.3) | (362)   | (413.7) | (465.4) | (517.1) |

| PRV<br>MODEL | Pressure Range |             |
|--------------|----------------|-------------|
|              | PSI            | (Bar)       |
| 20015        | 125-500        | (8.6-34.5)  |
| 20210        | 250-1,000      | (17.2-68.9) |



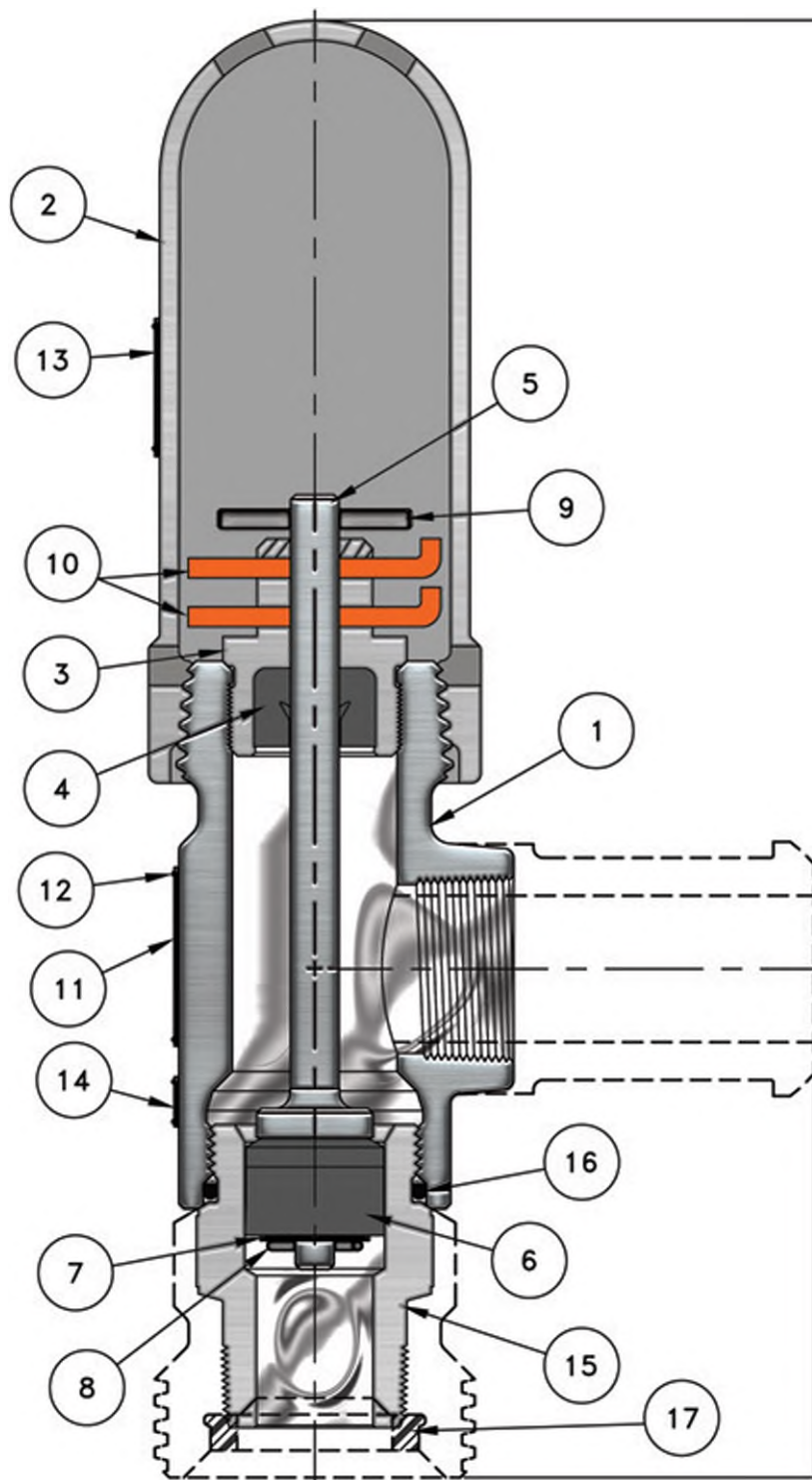
| ITEM NO. | DESCRIPTION                                                 | OTECO PART NO. | WEIGHT<br>Lbs. (kg) |        |
|----------|-------------------------------------------------------------|----------------|---------------------|--------|
| 1        | BODY with 2" LPT INLET X 1-1/2" OUTLET, VB2110              | 140121         | 12                  | (5.44) |
| 2        | SAFETY COVER, STC2125                                       | 141125         | 9                   | (4.08) |
| 3        | SINGLE SHEAR BUSHING, BU2150, MODEL 20015 ONLY              | 141421         | 0.5                 | (0.23) |
|          | DOUBLE SHEAR BUSHING, BU2210, MODEL 20210 ONLY              | 141422         | 0.5                 | (0.23) |
| 4        | STEM CUSHION, SC4022, (NBR) NITRILE, STANDARD               | 140322         | 0.5                 | (0.23) |
|          | STEM CUSHION, SC4022. (LT) NITRILE-LT                       | 140007         | 0.5                 | (0.23) |
| 5        | STEM. SS4022 (INCLUDES ITEM 9)                              | 141221         | 1                   | (0.45) |
| 6        | PISTON KIT, SP4710, (NBR) NITRILE, (INCLUDES ITEM 7 & 8)    | 141025         | 0.5                 | (0.23) |
|          | PISTON KIT, SP4710, (LT*) NITRILE-LT, (INCLUDES ITEM 7 & 8) | 140016         | 0.5                 | (0.23) |
| 7        | WASHER 1/2", CADMIUM PLATED                                 | 301590         | 0.1                 | (0.05) |
| 8        | COTTER PIN, 3/16" X 1"                                      | 301591         | 0.1                 | (0.05) |
| 9        | STEM PIN                                                    | 140935         | 0.1                 | (0.05) |
| 10       | SHEAR PINS #3 THROUGH #16                                   | SEE PAGE 3     |                     |        |
| 11       | NAME PLATE, MODEL 20015                                     | 140635         | 0.1                 | (0.05) |
|          | NAME PLATE, MODEL 20210                                     | 140000         | 0.1                 | (0.05) |
| 12       | SCREW FASTENER. #2                                          | 301592         | 0.1                 | (0.05) |
| 13       | BONNET WARNING PLATE                                        | 140637         | 0.1                 | (0.05) |
| 14       | EXHAUST WARNING PLATE                                       | 140636         | 0.1                 | (0.05) |
| 15       | LINER BUSHING, LB211                                        | 140023         | 0.5                 | (0.23) |
|          | MINOR REPAIR KIT ( ITEMS 4 & 6 ) NITRILE, 20015, 20210      | 140210         | 0.5                 | (0.23) |
|          | MAJOR REPAIR KIT ( ITEMS 4, 5 & 6 ) NITRILE, 200015, 20210  | 140211         | 1                   | (0.45) |

\* LT - NITRILE - LOW TEMP SERVICE

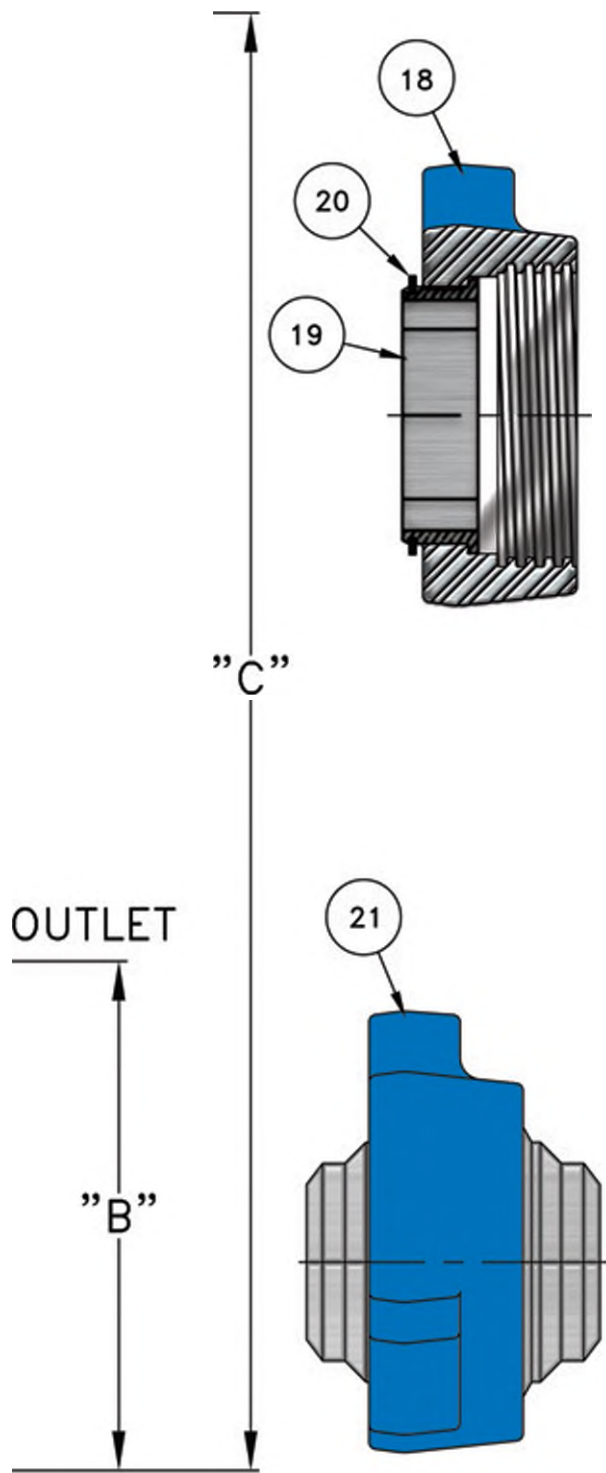


| PRV<br>MODEL | Pressure Range |              |
|--------------|----------------|--------------|
|              | PSI            | (Bar)        |
| 20513        | 500-1,375      | (34.5-94.8)  |
| 21027        | 1,000-2,500    | (68.9-189.6) |
| 21050        | 1,000-5,000    | (68.9-344.7) |

| CONNECTION | "A"     | "B"    | "C"     |
|------------|---------|--------|---------|
| L.P.T.     | 2-9/16H | 5-7/8" | 18"     |
| UNION      | 6-7/16" | 6-1/2" | 18-5/8" |



INLET



OUTLET

| ITEM NO. | DESCRIPTION                                                         | OTECO PART NO. | WEIGHT |        |
|----------|---------------------------------------------------------------------|----------------|--------|--------|
|          |                                                                     |                | Lbs.   | (kg)   |
| 1        | BODY with 2" LPT FEMALE OUTLET, VB2550, STANDARD                    | 140125         | 10.7   | (4.85) |
|          | BODY with 2" FIGURE 1502 MALE OUTLET, HAMMER UNION                  | 140131         | 15.5   | (7.03) |
| 2        | SAFETY COVER, STC2125, STANDARD                                     | 141125         | 9      | (4.08) |
|          | SAFETY COVER, STC2125, HAMMER UNION                                 | 141122         | 9      | (4.08) |
| 3        | SINGLE SHEAR BONNET, B02514, MODEL 20513, STANDARD                  | 140213         | 2.3    | (1.04) |
|          | SINGLE SHEAR BONNET, B02514, MODEL 20513, HAMMER UNION              | 140223         | 2.3    | (1.04) |
|          | SINGLE SHEAR BONNET. B02127. MODEL 21027, STANDARD                  | 140217         | 2.3    | (1.04) |
|          | SINGLE SHEAR BONNET, B02127, MODEL 21027, HAMMER UNION              | 140224         | 2.3    | (1.04) |
|          | DOUBLE SHEAR BONNET, B02150, MODEL 21050, STANDARD                  | 140215         | 2.3    | (1.04) |
|          | DOUBLE SHEAR BONNET, B02150, MODEL 21050, HAMMER UNION              | 140225         | 2.3    | (1.04) |
| 4        | STEM CUSHION. SC4110, (NBR) NITRILE. STANDARD                       | 140325         | 0.5    | (0.23) |
|          | STEM CUSHION. SC4110, (LT) NITRILE-LT                               | 140008         | 0.5    | (0.23) |
| 5        | STEM. SS4104, MODELS 20513 & 21027, (INCLUDES ITEM 9)               | 141224         | 1      | (0.45) |
|          | STEM, SS4030, MODEL 21050, (INCLUDES ITEM 9)                        | 141225         | 1      | (0.45) |
| 6        | PISTON KIT. SP4710, (NBR) NITRILE. STANDARD. (INCLUDES ITEM 7 & 8)  | 141025         | 0.5    | (0.23) |
|          | PISTON KIT, SP4710, (LT*) NITRILE-LT. (INCLUDES ITEM 7 & 8)         | 140016         | 0.5    | (0.23) |
| 7        | WASHER 1/2", CADMIUM PLATED                                         | 301590         | 0.1    | (0.05) |
| 8        | COTTER PIN, 3/16" X 1"                                              | 301591         | 0.1    | (0.05) |
| 9        | STEM PIN                                                            | 140015         | 0.1    | (0.05) |
| 10       | SHEAR PINS #16 THROUGH #60                                          | SEE PAGE 3     |        |        |
| 11       | NAME PLATE, MODEL 20513                                             | 140001         | 0.1    | (0.05) |
|          | NAME PLATE, MODEL 21027                                             | 140002         | 0.1    | (0.05) |
|          | NAME PLATE, MODEL 21050                                             | 140003         | 0.1    | (0.05) |
| 12       | SCREW FASTENER, #2                                                  | 301592         | 0.1    | (0.05) |
| 13       | BONNET WARNING PLATE                                                | 140637         | 0.1    | (0.05) |
| 14       | EXHAUST WARNING PLATE                                               | 140636         | 0.1    | (0.05) |
| 15       | LINER SUB, LS255, 2" LPT MALE INLET. STANDARD                       | 140425         | 3.7    | (1.68) |
|          | LINER SUB. 2" FIGURE 1502 FEMALE INLET, HAMMER UNION                | 140437         | 7.9    | (3.58) |
| 16       | "O"-RING, #333 70 DURO, (NBR) NITRILE                               | 140725         | 0.1    | (0.05) |
| 17       | 2" FMC UNION SEAL RING 602/1002/1502, (NBR) NITRILE. STANDARD       | 301921         | 0.1    | (0.05) |
|          | 2" FMC UNION SEAL RING 602/1002/1502, (VIT) VITON                   | 302062         | 0.1    | (0.05) |
|          | HAMMER UNION DETACHABLE NUT ASSEMBLY                                |                |        |        |
| 18       | 2" FIGURE 1502 UNION NUT. STANDARD/DETACHABLE. STANDARD             | 302626         | 6      | (2.7)  |
| 19       | 2" FIGURE 1502 UNION NUT, RETAINER RING SEGMENTS, STANDARD          | 302627         | 0.5    | (0.23) |
| 20       | 2" FIGURE 1502 UNION NUT, RETAINER SNAP RING, ALL ASSEMBLIES        | 301924         | 0.1    | (0.05) |
|          | HAMMER UNION WELDOLET ASSEMBLY (INCLUDED WITH SPECIAL PRV ASSEMBLY) |                |        |        |
| 21       | 2" FIGURE 1502 with 2" BUTT WELD SCH.XXS. STANDARD                  | 302037         | 12     | (5.4)  |
|          | MINOR REPAIR KIT ( ITEMS 4, 6 & 16 ) NITRILE, 20513, 21027, 21050   | 140250         | 0.5    | (0.23) |
|          | MAJOR REPAIR KIT ( ITEMS 4, 5, 6 & 16 ) NITRILE. 20513, 21027       | 140271         | 1      | (0.45) |
|          | MAJOR REPAIR KIT ( ITEMS 4, 5, 6 & 16 ) NITRILE. 21050              | 140251         | 1      | (0.45) |

• LT - NITRILE - LOW TEMP SERVICE



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| Вологда (8172)26-41-59      | Магнитогорск (3519)55-03-13     | Самара (846)206-03-16          | Уфа (347)229-48-12        |
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