



Polypropylene Valves & Accessories



PRODUCT

Contact Spears® for any Information not found.



Polypropylene Product Gauge Guards

Gauge Guards



Connections use Spears®
Patented Special Reinforced (SR)
Female Threads on Pressure Inlet (1/4" or 1/2")

Pressure Rating
235 psi @ 73°F
16 BAR @ 22°C

Maximum Service Temperature
PP = 180°F (82°C)

Temperature/Pressure De-ratings Apply

Rated for Full Vacuum Service

Gauge Guards are pre-filled with glycerin-water
on units with Factory Installed Gauges.

"No Gauge" units are to be filled by end user.

GAUGE GUARDS, PP

| Size | 1/4" Inlet Connection | 1/2" Inlet Connection | Std Pk | Mstr Pk | Prod Code |
|------|-----------------------|-----------------------|--------|---------|-----------|
|------|-----------------------|-----------------------|--------|---------|-----------|

PTFE Diaphragm

| | | | | | |
|------------|----------------------|----------------------|---|----|-----|
| No Gauge | G0004-002P 134.64 | G0004-005P 134.64 | 1 | 18 | 626 |
| 0-30 in-Hg | G30V4-002P 206.83 | G30V4-005P 206.83 | 1 | 18 | 626 |
| 0-15 psi | G0154-002P 196.72 | G0154-005P 196.72 | 1 | 18 | 626 |
| 0-30 psi | G0304-002P 196.72 | G0304-005P 196.72 | 1 | 18 | 626 |
| 0-60 psi | G0604-002P 196.72 | G0604-005P 196.72 | 1 | 18 | 626 |
| 0-100 psi | G1004-002P 196.72 | G1004-005P 196.72 | 1 | 18 | 626 |
| 0-160 psi | G1604-002P 196.72 | G1604-005P 196.72 | 1 | 18 | 626 |
| 0-200 psi | G2004-002P 196.72 | G2004-005P 196.72 | 1 | 18 | 626 |
| 0-300 psi | G3004-002P 196.72 | G3004-005P 196.72 | 1 | 18 | 626 |

GAUGE GUARDS, PP

| Size | 1/4" Inlet Connection | 1/2" Inlet Connection | Std Pk | Mstr Pk | Prod Code |
|------|-----------------------|-----------------------|--------|---------|-----------|
|------|-----------------------|-----------------------|--------|---------|-----------|

FKM Diaphragm

| | | | | | |
|------------|----------------------|----------------------|---|----|-----|
| No Gauge | G0003-002P 134.64 | G0003-005P 134.64 | 1 | 18 | 626 |
| 0-30 in-Hg | G30V3-002P 206.83 | G30V3-005P 206.83 | 1 | 18 | 626 |
| 0-15 psi | G0153-002P 196.72 | G0153-005P 196.72 | 1 | 18 | 626 |
| 0-30 psi | G0303-002P 196.72 | G0303-005P 196.72 | 1 | 18 | 626 |
| 0-60 psi | G0603-002P 196.72 | G0603-005P 196.72 | 1 | 18 | 626 |
| 0-100 psi | G1003-002P 196.72 | G1003-005P 196.72 | 1 | 18 | 626 |
| 0-160 psi | G1603-002P 196.72 | G1603-005P 196.72 | 1 | 18 | 626 |
| 0-200 psi | G2003-002P 196.72 | G2003-005P 196.72 | 1 | 18 | 626 |
| 0-300 psi | G3003-002P 196.72 | G3003-005P 196.72 | 1 | 18 | 626 |

EPDM Diaphragm

| | | | | | |
|------------|----------------------|----------------------|---|----|-----|
| No Gauge | G0002-002P 129.32 | G0002-005P 129.32 | 1 | 18 | 626 |
| 0-30 in-Hg | G30V2-002P 198.54 | G30V2-005P 198.54 | 1 | 18 | 626 |
| 0-15 psi | G0152-002P 188.93 | G0152-005P 188.93 | 1 | 18 | 626 |
| 0-30 psi | G0302-002P 188.93 | G0302-005P 188.93 | 1 | 18 | 626 |
| 0-60 psi | G0602-002P 188.93 | G0602-005P 188.93 | 1 | 18 | 626 |
| 0-100 psi | G1002-002P 188.93 | G1002-005P 188.93 | 1 | 18 | 626 |
| 0-160 psi | G1602-002P 188.93 | G1602-005P 188.93 | 1 | 18 | 626 |
| 0-200 psi | G2002-002P 188.93 | G2002-005P 188.93 | 1 | 18 | 626 |
| 0-300 psi | G3002-002P 188.93 | G3002-005P 188.93 | 1 | 18 | 626 |

Polypropylene Product
Needle Valves & Industrial Swing Check Valves



Needle Valves



Pressure Rating @ 73°F (23°C), Water
 150 psi

Maximum Service Temperature
 PP = 180°F (82°C)
 Solid PTFE Stem Seals

No Elastomer or Lubricants used

Valves include Panel Mounting Nut

PP Needle Valve

| Size | Threaded | SR Threaded | Std Pk | Mstr Pk | Prod Code |
|------|----------|-------------|--------|---------|-----------|
|------|----------|-------------|--------|---------|-----------|

Globe Pattern

| | | | | | |
|-----|--------------------|----------------------|---|----|-----|
| 1/4 | 5591-002P 87.02 | --- | 1 | 18 | 219 |
| 3/8 | 5591-003P 87.02 | --- | 1 | 18 | 219 |
| 1/2 | --- | 5591-005PSR 96.23 | 1 | 18 | 219 |

Angle Pattern

| | | | | | |
|-----|--------------------|----------------------|---|----|-----|
| 1/4 | 5691-002P 87.02 | --- | 1 | 18 | 219 |
| 3/8 | 5691-003P 87.02 | --- | 1 | 18 | 219 |
| 1/2 | --- | 5691-005PSR 96.23 | 1 | 18 | 219 |

Industrial Swing Check Valves



Threaded Bonnet on Sizes 3/4", 1" & 1-1/4"

Pressure Rating @ 73°F (23°C), Water

| | |
|-----------|---------|
| 3/4" - 4" | 150 psi |
| 6" | 100 psi |
| 8" | 70 psi |

Maximum Service Temperature
 PP = 180°F (82°C)

Temperature/Pressure De-ratings Apply

All Valves Assembled with Silicone-Free Lubricants



Bolted Bonnet on Sizes 1-1/2" & Up

General Installation Information: Swing check valves are designed for horizontal installations, but may be installed in up-flow only vertical position. Check valves MUST be installed with the valve's FLOW arrow pointing in the direction of the flow. Do not install valve upside down. Flow velocity should not exceed 5 ft./sec.

Industrial Swing Check Valves

| Size | EPDM | FKM | Std Pk | Mstr Pk | Prod Code |
|------|------|-----|--------|---------|-----------|
|------|------|-----|--------|---------|-----------|

PP



Industrial Swing Check Valves

Industrial Swing Check Valves (continued)

| Size | EPDM | FKM | Std Pk | Mstr Pk | Prod Code |
|-----------|-----------------------|-----------------------|--------|---------|-----------|
| PP | | | | | |
| 3/4 | 4423-007P 624.15 | 4433-007P 693.47 | 1 | 12 | 113 |
| 1 | 4423-010P 746.67 | 4433-010P 813.78 | 1 | 4 | 113 |
| 1-1/4 | 4423-012P 894.91 | 4433-012P 994.25 | 1 | 0 | 113 |
| 1-1/2 | 4423-015P 1111.11 | 4433-015P 1209.04 | 1 | 0 | 113 |
| 2 | 4423-020P 1187.98 | 4433-020P 1334.80 | 1 | 0 | 113 |
| 2-1/2 | 4423-025P 1977.98 | 4433-025P 2200.20 | 1 | 0 | 112 |
| 3 | 4423-030P 2079.48 | 4433-030P 2486.60 | 1 | 0 | 112 |
| 4 | 4423-040P 2828.55 | 4433-040P 3139.66 | 1 | 0 | 112 |
| 6 | 4423-060P 5358.08 | 4433-060P 5958.13 | 1 | 0 | 112 |
| 8 | 4423-080P 10256.16 | 4433-080P 11270.55 | 1 | 0 | 112 |

Industrial Swing Check Valve With Arrow Indicator

| Size | EPDM | FKM | Std Pk | Mstr Pk | Prod Code |
|-----------|------------------------|------------------------|--------|---------|-----------|
| PP | | | | | |
| 3/4 | 44231-007P 633.06 | 44331-007P 702.40 | 1 | 12 | 113 |
| 1 | 44231-010P 759.16 | 44331-010P 876.25 | 1 | 4 | 113 |
| 1-1/4 | 44231-012P 975.22 | 44331-012P 1082.54 | 1 | 0 | 113 |
| 1-1/2 | 44231-015P 1253.65 | 44331-015P 1082.54 | 1 | 0 | 113 |
| 2 | 44231-020P 1220.77 | 44331-020P 1384.33 | 1 | 0 | 113 |
| 2-1/2 | 44231-025P 1989.48 | 44331-025P 2229.56 | 1 | 0 | 112 |
| 3 | 44231-030P 2479.48 | 44331-030P 2587.95 | 1 | 0 | 112 |
| 4 | 44231-040P 2840.05 | 44331-040P 3151.22 | 1 | 0 | 112 |
| 6 | 44231-060P 5473.73 | 44331-060P 6008.35 | 1 | 0 | 112 |
| 8 | 44231-080P 10332.55 | 44331-080P 11384.46 | 1 | 0 | 112 |

Industrial Swing Check Valve With Counter Balance

| Size | EPDM | FKM | Std Pk | Mstr Pk | Prod Code |
|-----------|-----------------------|------------------------|--------|---------|-----------|
| PP | | | | | |
| 3/4 | 4423CB-007P 798.91 | 4433CB-007P 887.65 | 1 | 12 | 113 |
| 1 | 4423CB-010P 955.72 | 4433CB-010P 1041.62 | 1 | 4 | 113 |
| 1-1/4 | 4423CB-012P 975.22 | 4433CB-012P 1500.67 | 1 | 0 | 113 |

Industrial Swing Check Valve With Counter Balance (continued)

| Size | EPDM | FKM | Std Pk | Mstr Pk | Prod Code |
|-----------|-------------------------|-------------------------|--------|---------|-----------|
| PP | | | | | |
| 1-1/2 | 4423CB-015P 1378.47 | 4433CB-015P 1850.96 | 1 | 0 | 113 |
| 2 | 4423CB-020P 1484.98 | 4433CB-020P 1668.49 | 1 | 0 | 113 |
| 2-1/2 | 4423CB-025P 2292.57 | 4433CB-025P 2816.25 | 1 | 0 | 112 |
| 3 | 4423CB-030P 2789.39 | 4433CB-030P 3489.95 | 1 | 0 | 112 |
| 4 | 4423CB-040P 3194.26 | 4433CB-040P 3509.14 | 1 | 0 | 112 |
| 6 | 4423CB-060P 5943.00 | 4433CB-060P 7626.39 | 1 | 0 | 112 |
| 8 | 4423CB-080P 10849.49 | 4433CB-080P 11863.92 | 1 | 0 | 112 |

Polypropylene Butterfly Valves



Lever Handle Style

Pressure Rating @ 73°F (23°C), Water
1-1/2" - 12" 150 psi

Maximum Service Temperature
PP = 180°F (82°C)

Temperature/Pressure De-ratings Apply

See Butterfly Valve Accessories & Repair Kits Section for
Additional Options and Features

PP Butterfly Valve w/Lever Handle

| Size | Buna-N | EPDM | FKM | Std Pk | Mstr Pk | Prod Code |
|-------|-----------------------|-----------------------|------------------------|--------|---------|-----------|
| 1-1/2 | 721311-015P 558.93 | 722311-015P 558.93 | 723311-015P 1161.13 | 1 | 0 | 256 |
| 2 | 721311-020P 564.58 | 722311-020P 564.58 | 723311-020P 1184.83 | 1 | 0 | 256 |
| 2-1/2 | 721311-025P 590.06 | 722311-025P 590.06 | 723311-025P 1205.04 | 1 | 0 | 256 |
| 3 | 721311-030P 602.54 | 722311-030P 602.54 | 723311-030P 1228.63 | 1 | 0 | 256 |



Polypropylene Butterfly Valves

PP Butterfly Valve w/Lever Handle (continued)

| Size | Buna-N | EPDM | FKM | Std Pk | Mstr Pk | Prod Code |
|------|------------------------|------------------------|------------------------|--------|---------|-----------|
| 4 | 721311-040P 671.93 | 722311-040P 671.93 | 723311-040P 1534.13 | 1 | 0 | 256 |
| 6 | 721311-060P 1049.92 | 722311-060P 1049.92 | 723311-060P 2425.80 | 1 | 0 | 256 |
| 8 | 721311-080P 1785.51 | 722311-080P 1785.51 | 723311-080P 4118.96 | 1 | 0 | 256 |

PP Butterfly Valve w/Gear Operator

| Size | Buna-N | EPDM | FKM | Std Pk | Mstr Pk | Prod Code |
|-------|------------------------|------------------------|-------------------------|--------|---------|-----------|
| 2 | 721321-020P 1607.09 | 722321-020P 1607.09 | 723321-020P 2042.89 | 1 | 0 | 256 |
| 2-1/2 | 721321-025P 1628.48 | 722321-025P 1628.48 | 723321-025P 2150.16 | 1 | 0 | 256 |
| 3 | 721321-030P 1659.86 | 722321-030P 1659.86 | 723321-030P 2259.00 | 1 | 0 | 256 |
| 4 | 721321-040P 1768.51 | 722321-040P 1768.51 | 723321-040P 2569.54 | 1 | 0 | 256 |
| 6 | 721321-060P 2065.87 | 722321-060P 2065.87 | 723321-060P 3477.27 | 1 | 0 | 256 |
| 8 | 721321-080P 2823.12 | 722321-080P 2823.12 | 723321-080P 5191.78 | 1 | 0 | 256 |
| 10 | 721321-100P 3796.03 | 722321-100P 3796.03 | 723321-100P 8446.78 | 1 | 0 | 256 |
| 12 | 721321-120P 5256.72 | 722321-120P 5256.72 | 723321-120P 12344.87 | 1 | 0 | 256 |

PP Butterfly Valve - Valve Only

| Size | Buna-N | EPDM | FKM | Std Pk | Mstr Pk | Prod Code |
|-------|------------------------|------------------------|-------------------------|--------|---------|-----------|
| 1-1/2 | 721301-015P 516.56 | 722301-015P 516.56 | 723301-015P 1024.66 | 1 | 0 | 256 |
| 2 | 721301-020P 527.08 | 722301-020P 527.08 | 723301-020P 1043.28 | 1 | 0 | 256 |
| 2-1/2 | 721301-025P 547.33 | 722301-025P 547.33 | 723301-025P 1081.80 | 1 | 0 | 256 |
| 3 | 721301-030P 564.35 | 722301-030P 564.35 | 723301-030P 1110.13 | 1 | 0 | 256 |
| 4 | 721301-040P 645.62 | 722301-040P 645.62 | 723301-040P 1377.02 | 1 | 0 | 256 |
| 6 | 721301-060P 987.31 | 722301-060P 987.31 | 723301-060P 2227.24 | 1 | 0 | 256 |
| 8 | 721301-080P 1696.63 | 722301-080P 1696.63 | 723301-080P 3772.34 | 1 | 0 | 256 |
| 10 | 721301-100P 3388.79 | 722301-100P 3388.79 | 723301-100P 7559.52 | 1 | 0 | 256 |
| 12 | 721301-120P 4384.91 | 722301-120P 4384.91 | 723301-120P 10797.71 | 1 | 0 | 256 |

Large Diameter Butterfly Valves



Maximum Service Temperature
PP = 180°F (82°C)
Temperature/Pressure De-ratings Apply
Contact Spears® for Custom Produced Valve Sizes 30" to 60"

Pressure Rating @ 73°F (23°C), Water

| Size | Psi |
|------|-----|
| 14 | 100 |
| 16 | 85 |
| 18 | 70 |
| 20 | 50 |
| 24 | 50 |



Large Diameter Polypropylene Butterfly Valve - Gear Operator

| Size | EPDM | FKM | Std Pk | Mstr Pk | Prod Code |
|------|-------------------------|-------------------------|--------|---------|-----------|
| 14 | 722321-140P 14510.12 | 723321-140P 17183.75 | 1 | 0 | 257 |
| 16 | 722321-160P 18990.21 | 723321-160P 29864.97 | 1 | 0 | 257 |
| 18 | 722321-180P 27265.75 | 723321-180P 34797.92 | 1 | 0 | 257 |
| 20 | 722321-200P 29424.21 | 723321-200P 41420.06 | 1 | 0 | 257 |
| 24 | 722321-240P 35904.06 | 723321-240P 42970.53 | 1 | 0 | 257 |



Polypropylene Product Diaphragm Valves



PP Thread Style

Maximum Service Temperature
PP = 180°F (82°C)

Temperature/Pressure De-ratings Apply

No Lubricants in Media Contact Area

See Diaphragm Valve Repair Kits Section

for Additional Options and Features

Pressure Rating @ 73°F (23°C), Water

| | |
|-------------------------------------------------|---------|
| 1/2" - 2" | 235 psi |
| 1/2" - 4" Flanged & Valves w/PTFE Diaphragms | 150 psi |
| 6" | 100 psi |
| 8" | 75 psi |

Contact Spears® for MSRP on Additional Specialty Diaphragms

- Hypalon®
- Hypalon® backed PTFE
- PTFE Encapsulated O-rings (for True Union Style Valves)

PP Diaphragm Valve - SR Threaded Ends (True Union Style Uses End Connector O-ring Seals)

| Size | EPDM Seals & Diaphragm | FKM Seals & Diaphragm | EPDM Seals & EPDM Backed PTFE Diaphragm | FKM Seals & EPDM Backed PTFE Diaphragm | FKM Seals & FKM Backed PTFE Diaphragm | Std Pk | Mstr Pk | Prod Code |
|-------|----------------------------------------------|----------------------------------------------|-----------------------------------------------|-----------------------------------------------|------------------------------------------------|--------|---------|-----------|
| 1/2 | 2721-005PSR 157.25 | 2731-005PSR 174.94 | 2721T-005PSR 251.38 | 2731T-005PSR 284.62 | 2731VT-005PSR 299.27 | 1 | 12 | 280 |
| 3/4 | 2721-007PSR 179.09 | 2731-007PSR 198.69 | 2721T-007PSR 263.19 | 2731T-007PSR 299.25 | 2731VT-007PSR 327.84 | 1 | 8 | 280 |
| 1 | 2721-010PSR 221.54 | 2731-010PSR 244.08 | 2721T-010PSR 383.66 | 2731T-010PSR 403.62 | 2731VT-010PSR 425.87 | 1 | 8 | 280 |
| 1-1/4 | 2721-012PSR 336.45 | 2731-012PSR 374.66 | 2721T-012PSR 525.29 | 2731T-012PSR 550.74 | 2731VT-012PSR 611.18 | 1 | 4 | 280 |
| 1-1/2 | 2721-015PSR 351.94 | 2731-015PSR 390.68 | 2721T-015PSR 560.19 | 2731T-015PSR 587.38 | 2731VT-015PSR 632.62 | 1 | 4 | 280 |
| 2 | 2721-020PSR 409.32 | 2731-020PSR 454.88 | 2721T-020PSR 639.13 | 2731T-020PSR 670.59 | 2731VT-020PSR 728.81 | 1 | 0 | 280 |

PP Diaphragm Valve - Flanged Ends

| Size | EPDM Diaphragm | FKM Diaphragm | EPDM Backed PTFE Diaphragm | FKM Backed PTFE Diaphragm | Std Pk | Mstr Pk | Prod Code |
|-------|---------------------------------------------|---------------------------------------------|----------------------------------------------|------------------------------------------------|--------|---------|-----------|
| 2-1/2 | 2723-025P 754.07 | 2733-025P 833.31 | 2793T-025P 1186.44 | 2793VT-025P 1324.99 | 1 | 0 | 281 |
| 3 | 2723-030P 1078.22 | 2733-030P 1191.29 | 2793T-030P 1640.78 | 2793VT-030P 1829.60 | 1 | 0 | 281 |
| 4 | 2723-040P 1551.44 | 2733-040P 1708.07 | 2793T-040P 2187.19 | 2793VT-040P 2425.93 | 1 | 0 | 281 |
| 6 | 2723-060P 3839.57 | 2733-060P 4266.18 | 2793T-060P 5481.80 | 2793VT-060P 6196.22 | 1 | 0 | 281 |
| 8 | 2723-080P 7413.16 | 2733-080P 8605.56 | 2793T-080P 9951.09 | 2793VT-080P 16768.43 | 1 | 0 | 281 |