



**Johnson
Screens**

A brand of
Aqseptence Group

Shur-Align® Stainless Steel Coupled PVC Drop Pipe

Johnson Screens stainless steel Shur-Align drop pipe coupling has a long entry bell, allowing for a quick connection for water well applications.

Features

- Shur-Align couplings are pre-assembled on PVC drop pipe
- NSF 61 certified for drinking water
- NSF 372 certified lead-free 304 stainless steel coupling
- Patented design

Benefits

- Industry first long lead inlet reduces cross-threading
- Increased strength on deeper set installs
- Beveled ends reduce hang-ups
- Built in ribs provide secure tool placement for tightening connections



Schedule 80 Shur-Align Coupled Drop Pipe

| Nominal Pipe Size (in.) | OD (in.) | Min. Wall (in.) | Approx. weight with coupler (lbs./ft.) | ASTM Water Pressure Rating (psi) | Flow Rate* | | Friction Loss (psi/100 ft.) | Rec Max Depth (ft.) Surface Discharge Pressure | | | | Recommended Pump HP | Recommended Max Tensile Strength (lbs.) |
|-------------------------|----------|-----------------|--|----------------------------------|------------|----------|-----------------------------|---|--------|--------|--------|---------------------|---|
| | | | | | GPM | ft./sec. | | 0 psi | 25 psi | 40 psi | 60 psi | | |
| 1 | 1.315 | 0.179 | 0.47 | 320 | 11.2 | 5 | 4.94 | 663 | 611 | 580 | 538 | 1.5 | 1,213 |
| | | | | | 14.6 | 6.5 | 7.88 | 625 | 576 | 547 | 508 | | |
| | | | | | 17.9 | 8 | 11.42 | 584 | 539 | 511 | 475 | | |
| | | | | | 22.4 | 10 | 17.03 | 530 | 489 | 464 | 431 | | |
| 1-1/4 | 1.660 | 0.191 | 0.65 | 260 | 20.0 | 5 | 3.46 | 555 | 502 | 470 | 427 | 2 | 1,729 |
| | | | | | 26.0 | 6.5 | 5.53 | 532 | 481 | 450 | 409 | | |
| | | | | | 32.0 | 8 | 8.01 | 506 | 458 | 428 | 389 | | |
| | | | | | 40.0 | 10 | 11.97 | 470 | 425 | 398 | 362 | | |
| 1-1/2 | 1.900 | 0.200 | 0.78 | 235 | 27.5 | 5 | 2.84 | 509 | 455 | 422 | 379 | 5 | 2,012 |
| | | | | | 35.8 | 6.5 | 4.54 | 491 | 438 | 407 | 365 | | |
| | | | | | 44.1 | 8 | 6.59 | 471 | 420 | 390 | 350 | | |
| | | | | | 55.1 | 10 | 9.86 | 442 | 395 | 367 | 329 | | |
| 2 | 2.375 | 0.218 | 1.07 | 200 | 46.0 | 5 | 2.08 | 440 | 385 | 352 | 308 | 7.5 | 2,294 |
| | | | | | 59.8 | 6.5 | 3.32 | 429 | 375 | 343 | 300 | | |
| | | | | | 73.6 | 8 | 4.83 | 415 | 363 | 332 | 291 | | |
| | | | | | 92.0 | 10 | 7.22 | 395 | 346 | 316 | 277 | | |

Tables are only for reference, pressure and tensile ratings should not be exceeded.
*Industry standards recommend not to exceed velocity of 5 ft./sec.

Schedule 120 Shur-Align Coupled Drop Pipe

| Nominal Pipe Size (in.) | OD (in.) | Min. Wall (in.) | Approx. weight with coupler (lbs./ft.) | ASTM Water Pressure Rating (psi) | Flow Rate* | | Friction Loss (psi/100 ft.) | Rec Max Depth (ft.) Surface Discharge Pressure | | | | Recommended Pump HP | Recommended Max Tensile Strength (lbs.) |
|-------------------------|----------|-----------------|--|----------------------------------|------------|----------|-----------------------------|--|--------|--------|--------|---------------------|---|
| | | | | | GPM | ft./sec. | | 0 psi | 25 psi | 40 psi | 60 psi | | |
| 1 | 1.315 | 0.200 | 0.51 | 360 | 10.2 | 5 | 5.22 | 741 | 690 | 659 | 618 | 1.5 | 1,342 |
| | | | | | 13.3 | 6.5 | 8.33 | 697 | 648 | 619 | 581 | | |
| | | | | | 16.4 | 8 | 12.06 | 650 | 605 | 577 | 541 | | |
| | | | | | 20.5 | 10 | 17.99 | 587 | 546 | 522 | 489 | | |
| 1-1/4 | 1.660 | 0.215 | 0.71 | 300 | 18.5 | 5 | 3.63 | 639 | 585 | 553 | 511 | 2 | 1,768 |
| | | | | | 24.1 | 6.5 | 5.79 | 610 | 560 | 529 | 488 | | |
| | | | | | 29.6 | 8 | 8.40 | 580 | 531 | 502 | 464 | | |
| | | | | | 37.0 | 10 | 12.54 | 537 | 492 | 465 | 429 | | |
| 1-1/2 | 1.900 | 0.225 | 0.86 | 270 | 25.7 | 5 | 2.96 | 583 | 529 | 497 | 453 | 5 | 2,219 |
| | | | | | 33.5 | 6.5 | 4.74 | 562 | 510 | 478 | 437 | | |
| | | | | | 41.2 | 8 | 6.87 | 538 | 488 | 458 | 418 | | |
| | | | | | 51.5 | 10 | 10.27 | 504 | 457 | 429 | 392 | | |
| 2 | 2.375 | 0.250 | 1.20 | 240 | 43.0 | 5 | 2.16 | 527 | 472 | 439 | 395 | 7.5 | 2,671 |
| | | | | | 55.9 | 6.5 | 3.46 | 513 | 459 | 427 | 385 | | |
| | | | | | 68.8 | 8 | 5.03 | 496 | 444 | 413 | 372 | | |
| | | | | | 86.1 | 10 | 7.52 | 472 | 423 | 393 | 354 | | |

Tables are only for reference, pressure and tensile ratings should not be exceeded.
*Industry standards recommend not to exceed velocity of 5 ft./sec.

Best Practices

- Recommend water hammer suppressors and/or soft start controls are used with Shur-Align coupled drop pipe. Water hammer suppressors and relief valves should be placed within 20 ft. of wellhead.
- Good well-system design will take into consideration appropriate outlet flow rates and pressures when selecting pump size
- Torque arrestors should always be used with Shur-Align coupled PVC drop pipe
- Check valves are recommended
- De-rating of pipe should occur if temperatures exceed 73 degrees Fahrenheit

Shur-Align Coupler Dimensions

| Coupler Size (in.) | Approx. OD (in.) | Length (in.) | Weight (lbs.) |
|--------------------|------------------|--------------|---------------|
| 1 | 1.67 | 3.75 | 1.0 |
| 1.25 | 2.00 | 3.75 | 1.2 |
| 1.5 | 2.30 | 3.75 | 1.5 |
| 2 | 2.75 | 3.75 | 1.8 |

Assembly Tips

- Apply a high quality, non-petroleum, pipe paste sealant, NSF approved for PVC, to each thread joint. Improper application of PTFE tape sealants can result in over-stressed threaded connections and potential joint failures
- Do not pre-assemble pipe lengths – assemble or disassemble one length at a time in a vertical position
- Always use elevators, clamps and tools designed for PVC when handling PVC drop pipe
- Tighten joints a maximum of two turns beyond finger tight – DO NOT OVERTIGHTEN
- Avoid using tools which may gouge or damage PVC – this can lead to premature failure
- Contact Johnson Screens for PVC handling and storage instructions

Johnson Screens Water Well Screens

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