

Get the most out of your tools

Ingersoll Rand takes a systematic approach to providing a complete solution to maximize your productivity as efficiently and safely as possible. To that end, we have organized our extensive line of tool accessories in the following categories:

- **Air Line Accessories** — featuring products for air treatment and transport, including FRLs, hoses, couplers, and plugs.
- **Consumables and Attachments** — these are the items physically performing the work, including impact sockets, tool steels, abrasives and pads, drill and nutrunner bits, burs, stones, and reciprocating saw blades.
- **Ergonomic Accessories** — products specifically designed to help you perform your job more efficiently and safely, such as spring balancers, torque reaction arms, grips, and braces.
- **Maintenance Accessories** — lubricants and grease guns help maximize performance by helping keep your tools up and running.



Air Line
Accessories



Consumables
& Attachments



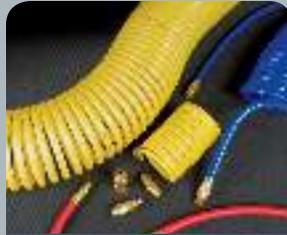
Ergonomic
Accessories



Maintenance
Accessories



Filters, Regulators, & Lubricators **4**



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Air Line

Consumables & Attachments

Ergonomic

Maintenance

Filters, Regulators, & Lubricators



Selections

When selecting an FRL or individual filter, regulator, and lubricator units, the air consumption of the tools or equipment to be serviced should be correlated with the flow capacity of the FRL. ARO Filters, Regulators, and Lubricators are designed to flow in excess of that indicated in the maximum recommended flow table shown below. This table gives recommended flows for pipe sizes at listed pressures and should be used as a guide in sizing piping and equipment for compressed air systems.

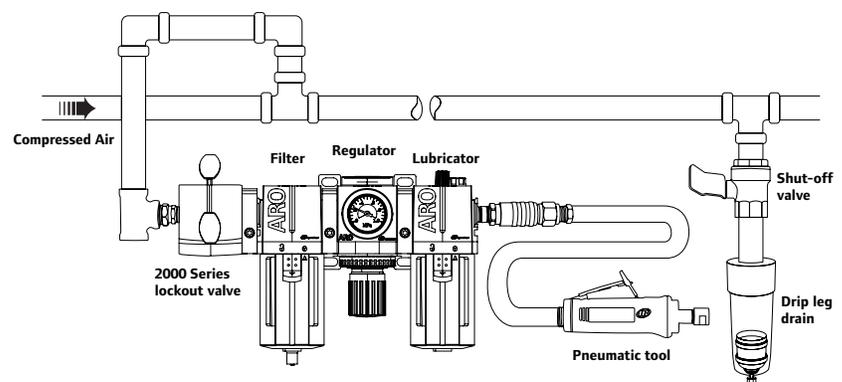
| Maximum recommended air flow (scfm) thru ANSI standard weight Schedule 40 pipe | | | | | | | | | | | |
|--|-------------------------------------|------|------|-------|-------|-----|--------|--------|------|--------|------|
| Applied Pressure PSIG | Nominal Standard Pipe Size — Inches | | | | | | | | | | |
| | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
| 5 | 0.5 | 1.2 | 2.7 | 4.9 | 6.6 | 13 | 27 | 40 | 80 | 135 | 240 |
| 10 | 0.8 | 1.7 | 3.9 | 7.7 | 11.0 | 21 | 44 | 64 | 125 | 200 | 370 |
| 20 | 1.3 | 3.0 | 6.6 | 13.0 | 18.5 | 35 | 75 | 110 | 215 | 350 | 600 |
| 40 | 2.5 | 5.5 | 12.0 | 23.0 | 34.0 | 62 | 135 | 200 | 385 | 640 | 1100 |
| 60 | 3.5 | 8.0 | 18.0 | 34.0 | 50.0 | 93 | 195 | 290 | 560 | 900 | 1600 |
| 80 | 4.7 | 10.5 | 23.0 | 44.0 | 65.0 | 120 | 255 | 380 | 720 | 1200 | 2100 |
| 100 | 5.8 | 13.0 | 29.0 | 54.0 | 80.0 | 150 | 315 | 470 | 900 | 1450 | 2600 |
| 150 | 8.6 | 20.0 | 41.0 | 80.0 | 115 | 220 | 460 | 680 | 1350 | 2200 | 3900 |
| 200 | 11.5 | 26.0 | 58.0 | 108.0 | 155.0 | 290 | 620 | 910 | 1750 | 2800 | 5000 |
| 250 | 14.5 | 33.0 | 73.0 | 135.0 | 200 | 370 | 770 | 1150 | 2200 | 3500 | 6100 |

The flow values in the chart above are based upon a pressure drop (ΔP) as set forth in the following schedule:

| Pressure Drop (ΔP) per 100 ft. of Pipe | Pipe Size — Inches |
|--|-----------------------------------|
| 10% of Applied Pressure | 1/8, 1/4, 3/8, 1/2 |
| 5% of Applied Pressure | 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3 |

Installation

The filter, regulator, and lubricator should be installed in the order shown in the illustration below. If a coalescing filter is required, it should be installed downstream from a standard filter. Individual take-off lines to the FRL and air tool or equipment should be from the top of the compressed air line. Make sure that air flow markings are followed for proper flow direction through the FRL units. To trap and expel water, sludge and other contaminants which may collect on the bottom of the air line, a drip leg drain should be used. Drip leg drains should be installed at low points in the piping system and at the far end of the distribution system.



For further model options, port sizes, and information regarding flow charts, unit dimensions, replacement parts, and more, go to:

ingersollrandproducts.com/accessories

Filters

1000, 1500, 2000, & 3000 Series

1/8" • 1/4" • 3/8" • 1/2" • 3/4" • 1" Ports

ARO-Flo compressed air filters are designed to remove airborne solid and liquid contaminants. Filters can be ordered with different elements, including coalescing models which are capable of removing oil aerosols and particles down to 0.3 micron. Standard filters are sold with 5-micron elements; 40-micron elements can be purchased and installed separately.



1000 Series

| Filter Type | Bowl Cap | Filter Element | Model |
|--|----------|----------------|---------------|
| NPT | oz | microns | cfm* |
| MANUAL DRAIN • METAL BOWLS | | | |
| 1/8" Coalescing | 0.3 | 0.3 | 38 F35111-320 |
| 1/8" Standard | 0.4 | 5 | 38 F35111-420 |
| 1/4" Coalescing | 0.3 | 0.3 | 49 F35121-320 |
| 1/4" Standard | 0.4 | 5 | 49 F35121-420 |
| MANUAL DRAIN • POLYCARBONATE BOWLS W/ GUARD | | | |
| 1/8" Coalescing | 0.3 | 0.3 | 38 F35111-300 |
| 1/8" Standard | 0.5 | 5 | 38 F35111-400 |
| 1/4" Coalescing | 0.3 | 0.3 | 49 F35121-300 |
| 1/4" Standard | 0.5 | 5 | 49 F35121-400 |
| AUTO DRAIN • METAL BOWLS | | | |
| 1/8" Coalescing | 0.5 | 0.3 | 38 F35111-321 |
| 1/8" Standard | 0.7 | 5 | 38 F35111-421 |
| 1/4" Coalescing | 0.5 | 0.3 | 49 F35121-321 |
| 1/4" Standard | 0.7 | 5 | 49 F35121-421 |
| AUTO DRAIN • POLYCARBONATE BOWLS W/ GUARD | | | |
| 1/8" Coalescing | 0.5 | 0.3 | 38 F35111-301 |
| 1/8" Standard | 0.7 | 5 | 38 F35111-401 |
| 1/4" Coalescing | 0.5 | 0.3 | 49 F35121-301 |
| 1/4" Standard | 0.7 | 5 | 49 F35121-401 |

1500 Series

| Filter Type | Bowl Cap | Filter Element | Model |
|--|----------|----------------|----------------|
| NPT | oz | microns | cfm* |
| MANUAL DRAIN • POLYCARBONATE BOWLS W/ GUARD | | | |
| 1/4" Coalescing | 1.2 | 0.3 | 73 F35221-300 |
| 1/4" Standard | 1.3 | 5 | 73 F35221-400 |
| 3/8" Coalescing | 1.2 | 0.3 | 107 F35231-300 |
| 3/8" Standard | 1.3 | 5 | 107 F35231-400 |
| MANUAL DRAIN • METAL BOWLS | | | |
| 1/4" Coalescing | 1.2 | 0.3 | 73 F35221-320 |
| 1/4" Standard | 1.3 | 5 | 73 F35221-420 |
| 3/8" Coalescing | 1.2 | 0.3 | 107 F35231-320 |
| 3/8" Standard | 1.3 | 5 | 107 F35231-420 |
| MANUAL DRAIN • METAL BOWLS W/ SIGHT GLASS | | | |
| 1/4" Coalescing | 1.2 | 0.3 | 73 F35221-310 |
| 1/4" Standard | 1.3 | 5 | 73 F35221-410 |
| 3/8" Coalescing | 1.2 | 0.3 | 107 F35231-310 |
| 3/8" Standard | 1.3 | 5 | 107 F35231-410 |
| AUTO DRAIN • POLYCARBONATE BOWLS W/ GUARD | | | |
| 1/4" Coalescing | 1.0 | 0.3 | 73 F35221-301 |
| 1/4" Standard | 1.0 | 5 | 73 F35221-401 |
| 3/8" Coalescing | 1.0 | 0.3 | 107 F35231-301 |
| 3/8" Standard | 1.0 | 5 | 107 F35231-401 |
| AUTO DRAIN • METAL BOWLS W/ SIGHT GLASS | | | |
| 1/4" Coalescing | 1.0 | 0.3 | 73 F35221-311 |
| 1/4" Standard | 1.0 | 5 | 73 F35221-411 |
| 3/8" Coalescing | 1.0 | 0.3 | 107 F35231-311 |
| 3/8" Standard | 1.0 | 5 | 107 F35231-411 |

*Inlet pressure 90 psi (6.2 bar) with 10 psi drop (0.7 bar)

Technical Data

| | | SERIES | | | |
|-----------------------------|-------------------|--------|------|------|------|
| | | 1000 | 1500 | 2000 | 3000 |
| Auto drain | Acetal | • | • | • | • |
| Standard filter | Polyethylene | • | • | • | • |
| Coalescing filter | HEPA paper & felt | • | • | • | • |
| Seals | Nitrile | • | • | • | • |
| Filter baffle | Acetal | • | • | • | • |
| Polycarbonate bowl | Polycarbonate | • | • | • | – |
| Polycarbonate bowl w/ guard | Nylon | • | • | • | – |
| Metal bowl | Aluminum | • | • | • | • |
| Filter body | Aluminum | • | • | • | • |
| Manual drain | Brass & nitrile | • | • | • | • |
| Metal bowl w/ sight glass | Nylon | – | • | • | • |

| SERIES | POLYCARBONATE BOWL | METAL BOWL / METAL BOWL W/ SIGHT GLASS |
|---------------------------------|--------------------|--|
| Max Inlet Pressure (psi) | | |
| 1000 | 150 | 250 |
| 1500 | 150 | 250 |
| 2000 | 150 | 250 |
| 3000 | – | 250 |
| Temperature Range (°F) | | |
| 1000 | 23 – 125 | 23 – 175 |
| 1500 | 23 – 125 | 23 – 175 |
| 2000 | 23 – 125 | 23 – 175 |
| 3000 | – | 23 – 175 |

2000 Series

| NPT | Filter Type | Bowl Cap | Filter Element | Service Indicator | cfm* | Model |
|--|-------------|----------|----------------|-------------------|------|------------|
| | | | | | | |
| MANUAL DRAIN • POLYCARBONATE BOWLS W/ GUARD | | | | | | |
| 3/8" | Standard | 1.9 | 5 | None | 156 | F35331-400 |
| 3/8" | Coalescing | 1.9 | 0.3 | Mechanical | 156 | F35332-300 |
| 1/2" | Standard | 1.9 | 5 | None | 197 | F35341-400 |
| 1/2" | Coalescing | 1.9 | 0.3 | Mechanical | 197 | F35342-300 |
| 3/4" | Standard | 1.9 | 5 | None | 216 | F35351-400 |
| MANUAL DRAIN • METAL BOWLS | | | | | | |
| 3/8" | Standard | 2.4 | 5 | None | 156 | F35331-420 |
| 3/8" | Coalescing | 2.4 | 0.3 | Mechanical | 156 | F35332-320 |
| 1/2" | Standard | 2.4 | 5 | None | 197 | F35341-420 |
| 1/2" | Coalescing | 2.4 | 0.3 | Mechanical | 197 | F35342-320 |
| MANUAL DRAIN • METAL BOWLS W/ SIGHT GLASS | | | | | | |
| 3/8" | Standard | 2.4 | 5 | None | 156 | F35331-410 |
| 3/8" | Coalescing | 2.4 | 0.3 | Mechanical | 156 | F35332-310 |
| 1/2" | Standard | 2.4 | 5 | None | 197 | F35341-410 |
| 1/2" | Coalescing | 2.4 | 0.3 | Mechanical | 197 | F35342-310 |
| 3/4" | Standard | 2.4 | 5 | None | 216 | F35351-410 |
| AUTO DRAIN • POLYCARBONATE BOWLS W/ GUARD | | | | | | |
| 3/8" | Standard | 2.3 | 5 | None | 156 | F35331-401 |
| 3/8" | Coalescing | 2.3 | 0.3 | Mechanical | 156 | F35332-301 |
| 1/2" | Standard | 2.3 | 5 | None | 197 | F35341-401 |
| 1/2" | Coalescing | 2.3 | 0.3 | Mechanical | 197 | F35342-301 |
| 3/4" | Standard | 2.3 | 5 | None | 216 | F35351-401 |
| AUTO DRAIN • METAL BOWLS W/ SIGHT GLASS | | | | | | |
| 3/8" | Standard | 2.8 | 5 | None | 156 | F35331-411 |
| 3/8" | Coalescing | 2.8 | 0.3 | Mechanical | 156 | F35332-311 |
| 1/2" | Standard | 2.8 | 5 | None | 197 | F35341-411 |
| 1/2" | Coalescing | 2.8 | 0.3 | Mechanical | 197 | F35342-311 |
| 3/4" | Standard | 2.8 | 5 | None | 216 | F35351-411 |

3000 Series

| NPT | Filter Type | Bowl Cap | Filter Element | Service Indicator | cfm* | Model |
|--|-------------|----------|----------------|-------------------|------|------------|
| | | | | | | |
| MANUAL DRAIN • METAL BOWLS | | | | | | |
| 3/4" | Coalescing | 4.7 | 0.3 | Mechanical | 288 | F35452-320 |
| 3/4" | Standard | 5.3 | 5 | None | 288 | F35451-420 |
| 3/4" | Standard | 5.3 | 5 | Mechanical | 288 | F35452-420 |
| 1" | Coalescing | 4.7 | 0.3 | Mechanical | 353 | F35462-320 |
| 1" | Standard | 5.3 | 5 | None | 353 | F35461-420 |
| 1" | Standard | 5.3 | 5 | Mechanical | 353 | F35462-420 |
| MANUAL DRAIN • METAL BOWLS W/ SIGHT GLASS | | | | | | |
| 3/4" | Coalescing | 4.7 | 0.3 | Mechanical | 288 | F35452-310 |
| 3/4" | Standard | 5.3 | 5 | None | 288 | F35451-410 |
| 3/4" | Standard | 5.3 | 5 | Mechanical | 288 | F35452-410 |
| 1" | Coalescing | 4.7 | 0.3 | Mechanical | 353 | F35462-310 |
| 1" | Standard | 5.3 | 5 | None | 353 | F35461-410 |
| 1" | Standard | 5.3 | 5 | Mechanical | 353 | F35462-410 |
| AUTO DRAIN • METAL BOWLS | | | | | | |
| 3/4" | Coalescing | 5.2 | 0.3 | Mechanical | 288 | F35452-321 |
| 3/4" | Standard | 5.9 | 5 | None | 288 | F35451-421 |
| 3/4" | Standard | 5.9 | 5 | Mechanical | 288 | F35452-421 |
| 1" | Coalescing | 5.2 | 0.3 | Mechanical | 353 | F35462-321 |
| 1" | Standard | 5.9 | 5 | None | 353 | F35461-421 |
| 1" | Standard | 5.9 | 5 | Mechanical | 353 | F35462-421 |
| AUTO DRAIN • METAL BOWLS W/ SIGHT GLASS | | | | | | |
| 3/4" | Coalescing | 5.2 | 0.3 | Mechanical | 288 | F35452-311 |
| 3/4" | Standard | 5.9 | 5 | None | 288 | F35451-411 |
| 3/4" | Standard | 5.9 | 5 | Mechanical | 288 | F35452-411 |
| 1" | Coalescing | 5.2 | 0.3 | Mechanical | 353 | F35462-311 |
| 1" | Standard | 5.9 | 5 | None | 353 | F35461-411 |
| 1" | Standard | 5.9 | 5 | Mechanical | 353 | F35462-411 |

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ingersollrandproducts.com/accessories

Regulators

1000, 1500, 2000, & 3000 Series

1/8" • 1/4" • 3/8" • 1/2" • 3/4" • 1" Ports

Air line regulators provide controlled, consistent air pressure as required for specific pneumatic equipment connected to the air system. All ARO-Flo regulators are offered with a standard adjustment range of 0 – 140 psig (0 – 9.6 barg). Alternative spring ranges are offered for easy conversion to suit different requirements. Non-relieving regulators are offered for applications where the venting of downstream overpressure is undesirable.



1000 Series

| ↓ NPT ↑ | Pressure Range | Gauge | cfm* | Model |
|--|----------------|-------------------|------|------------|
| | psi | | | |
| RELIEVING • STANDARD KNOB CONTROL | | | | |
| 1/8" | 0 – 30 | No gauge | 45 | R37111-400 |
| 1/8" | 0 – 60 | No gauge | 45 | R37111-200 |
| 1/8" | 0 – 140 | No gauge | 45 | R37111-100 |
| 1/8" | 0 – 140 | Flush-mount gauge | 45 | R37111-600 |
| 1/4" | 0 – 30 | No gauge | 59 | R37121-400 |
| 1/4" | 0 – 60 | No gauge | 59 | R37121-200 |
| 1/4" | 0 – 140 | No gauge | 59 | R37121-100 |
| 1/4" | 0 – 140 | Flush-mount gauge | 59 | R37121-600 |
| NON-RELIEVING • STANDARD KNOB CONTROL | | | | |
| 1/8" | 0 – 30 | No gauge | 45 | R37111-420 |
| 1/8" | 0 – 60 | No gauge | 45 | R37111-220 |
| 1/8" | 0 – 140 | No gauge | 45 | R37111-120 |
| 1/8" | 0 – 140 | Flush-mount gauge | 45 | R37111-620 |
| 1/4" | 0 – 30 | No gauge | 59 | R37121-420 |
| 1/4" | 0 – 60 | No gauge | 59 | R37121-220 |
| 1/4" | 0 – 140 | No gauge | 59 | R37121-120 |
| 1/4" | 0 – 140 | Flush-mount gauge | 59 | R37121-620 |

1500 Series

| ↓ NPT ↑ | Pressure Range | Gauge | cfm* | Model |
|--|----------------|-------------------|------|------------|
| | psi | | | |
| RELIEVING • STANDARD KNOB CONTROL | | | | |
| 1/4" | 0 – 30 | No gauge | 86 | R37221-400 |
| 1/4" | 0 – 60 | No gauge | 86 | R37221-200 |
| 1/4" | 0 – 140 | No gauge | 86 | R37221-100 |
| 1/4" | 0 – 140 | Flush-mount gauge | 86 | R37221-600 |
| 3/8" | 0 – 30 | No gauge | 113 | R37231-400 |
| 3/8" | 0 – 60 | No gauge | 113 | R37231-200 |
| 3/8" | 0 – 140 | No gauge | 113 | R37231-100 |
| 3/8" | 0 – 140 | Flush-mount gauge | 113 | R37231-600 |
| NON-RELIEVING • STANDARD KNOB CONTROL | | | | |
| 1/4" | 0 – 30 | No gauge | 86 | R37221-420 |
| 1/4" | 0 – 60 | No gauge | 86 | R37221-220 |
| 1/4" | 0 – 140 | No gauge | 86 | R37221-120 |
| 1/4" | 0 – 140 | Flush-mount gauge | 86 | R37221-620 |
| 3/8" | 0 – 30 | No gauge | 113 | R37231-420 |
| 3/8" | 0 – 60 | No gauge | 113 | R37231-220 |
| 3/8" | 0 – 140 | No gauge | 113 | R37231-120 |
| 3/8" | 0 – 140 | Flush-mount gauge | 113 | R37231-620 |

*Inlet pressure 100 psi (6.9 bar), 90 psi (6.2 bar), with 33 psi (2.3 bar) drop.

Adjustment range can exceed spring rating on 0 – 30 psi and 0 – 60 psi regulators. The working range of the adjustment knob is designed to permit outlet pressures beyond the spring ratings in the 0 – 30 psi and 0 – 60 psi models. The adjustment knob is not designed to be a pressure limiting device. Limiting devices may be obtained only by special design. For optimal performance, regulators should not be set to ranges outside the specified spring range.

Technical Data

| | | SERIES | | | |
|--------------------------|-----------------------|--------|------|------|------|
| | | 1000 | 1500 | 2000 | 3000 |
| Diaphragm | Nitrile & nylon | — | • | • | • |
| | Nitrile & acetal | • | — | — | — |
| Regulator body | Aluminum | • | • | • | • |
| Regulator valve | Nitrile & nylon | — | • | • | • |
| | Brass & nitrile | • | — | — | — |
| Regulator springs | Steel | • | • | • | • |
| Gauge cover | Nylon & polycarbonate | • | • | • | • |
| Regulator knob | Acetal | • | • | • | • |
| O-rings | Nitrile | • | • | • | • |

| SERIES | MAX INLET PRESSURE (psi) | TEMPERATURE RANGE (°F) | SPRING RANGE OPTIONS (psi) |
|-------------|--------------------------|------------------------|----------------------------|
| 1000 | 250 | 23 – 140 | 0 – 30 |
| | | | 0 – 60 |
| | | | 0 – 140 |
| 1500 | 250 | 23 – 140 | 0 – 30 |
| | | | 0 – 60 |
| | | | 0 – 140 |
| 2000 | 250 | 23 – 140 | 0 – 30 |
| | | | 0 – 60 |
| | | | 0 – 140 |
| | | | 10 – 200 |
| 3000 | 250 | 23 – 140 | 0 – 30 |
| | | | 0 – 60 |
| | | | 0 – 140 |
| | | | 10 – 200 |

2000 Series

| NPT | Pressure Range psi | Gauge | cfm* | Model |
|--|-----------------------|-------------------|------|------------|
| | | | | |
| RELIEVING • STANDARD KNOB CONTROL | | | | |
| 3/8" | 0 – 30 | No gauge | 179 | R37331-400 |
| 3/8" | 0 – 60 | No gauge | 179 | R37331-200 |
| 3/8" | 0 – 140 | No gauge | 179 | R37331-100 |
| 3/8" | 0 – 140 | Flush-mount gauge | 179 | R37331-600 |
| 3/8" | 10 – 200 | No gauge | 179 | R37331-300 |
| 1/2" | 0 – 30 | No gauge | 210 | R37341-400 |
| 1/2" | 0 – 60 | No gauge | 210 | R37341-200 |
| 1/2" | 0 – 140 | No gauge | 210 | R37341-100 |
| 1/2" | 0 – 140 | Flush-mount gauge | 210 | R37341-600 |
| 1/2" | 10 – 200 | No gauge | 210 | R37341-300 |
| 3/4" | 0 – 30 | No gauge | 210 | R37351-400 |
| 3/4" | 0 – 60 | No gauge | 210 | R37351-200 |
| 3/4" | 0 – 140 | No gauge | 210 | R37351-100 |
| 3/4" | 0 – 140 | Flush-mount gauge | 210 | R37351-600 |
| 3/4" | 10 – 200 | No gauge | 210 | R37351-300 |
| NON-RELIEVING • STANDARD KNOB CONTROL | | | | |
| 3/8" | 0 – 30 | No gauge | 179 | R37331-420 |
| 3/8" | 0 – 60 | No gauge | 179 | R37331-220 |
| 3/8" | 0 – 140 | No gauge | 179 | R37331-120 |
| 3/8" | 0 – 140 | Flush-mount gauge | 179 | R37331-620 |
| 3/8" | 10 – 200 | No gauge | 179 | R37331-320 |
| 1/2" | 0 – 30 | No gauge | 210 | R37341-420 |
| 1/2" | 0 – 60 | No gauge | 210 | R37341-220 |
| 1/2" | 0 – 140 | No gauge | 210 | R37341-120 |
| 1/2" | 0 – 140 | Flush-mount gauge | 210 | R37341-620 |
| 1/2" | 10 – 200 | No gauge | 210 | R37341-320 |
| 3/4" | 0 – 140 | Flush-mount gauge | 210 | R37351-620 |
| 3/4" | 10 – 200 | No gauge | 210 | R37351-320 |

3000 Series

| NPT | Pressure Range psi | Gauge | cfm* | Model |
|--|-----------------------|-------------------|------|------------|
| | | | | |
| RELIEVING • STANDARD KNOB CONTROL | | | | |
| 3/4" | 0 – 30 | No gauge | 290 | R37451-400 |
| 3/4" | 0 – 60 | No gauge | 290 | R37451-200 |
| 3/4" | 0 – 140 | No gauge | 290 | R37451-100 |
| 3/4" | 0 – 140 | Flush-mount gauge | 290 | R37451-600 |
| 3/4" | 10 – 200 | No gauge | 290 | R37451-300 |
| 1" | 0 – 30 | No gauge | 290 | R37461-400 |
| 1" | 0 – 60 | No gauge | 290 | R37461-200 |
| 1" | 0 – 140 | No gauge | 290 | R37461-100 |
| 1" | 0 – 140 | Flush-mount gauge | 290 | R37461-600 |
| 1" | 10 – 200 | No gauge | 290 | R37461-300 |
| NON-RELIEVING • STANDARD KNOB CONTROL | | | | |
| 3/4" | 0 – 30 | No gauge | 290 | R37451-420 |
| 3/4" | 0 – 60 | No gauge | 290 | R37451-220 |
| 3/4" | 0 – 140 | No gauge | 290 | R37451-120 |
| 3/4" | 0 – 140 | Flush-mount gauge | 290 | R37451-620 |
| 3/4" | 10 – 200 | No gauge | 290 | R37451-320 |
| 1" | 0 – 30 | No gauge | 290 | R37461-420 |
| 1" | 0 – 60 | No gauge | 290 | R37461-220 |
| 1" | 0 – 140 | No gauge | 290 | R37461-120 |
| 1" | 0 – 140 | Flush-mount gauge | 290 | R37461-620 |
| 1" | 10 – 200 | No gauge | 290 | R37461-320 |

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Lubricators

1000, 1500, 2000, & 3000 Series

1/8" • 1/4" • 3/8" • 1/2" • 3/4" • 1" Ports

ARO-Flo mist-type lubricators help ensure that pneumatic devices receive the required lubrication to maintain peak performance, reduce wear, and prolong service life. They are designed to provide the correct amount of oil for most general applications in a pneumatic system, delivering a constant ratio of oil to airflow. Precise oil feed adjustment sets the proper oil drip rate. Lubricators should be installed close to the downstream application to ensure effective distribution of oil.



1000 Series

| ↓ ↑ | Adjustment Option | Bowl Cap | Fill Option | Model |
|-------------------------------------|----------------------|-------------|----------------|---------------|
| NPT | | oz | cfm* | |
| METAL BOWLS | | | | |
| 1/8" | Standard | 0.7 | Standard | 32 L36111-120 |
| 1/4" | Standard | 0.7 | Standard | 51 L36121-120 |
| POLYCARBONATE BOWLS W/ GUARD | | | | |
| 1/8" | Standard | 0.6 | Standard | 32 L36111-100 |
| 1/4" | Standard | 0.6 | Standard | 51 L36121-100 |

1500 Series

| ↓ ↑ | Adjustment Option | Bowl Cap | Fill Option | Model |
|-------------------------------------|----------------------|-------------|----------------|----------------|
| NPT | | oz | cfm* | |
| METAL BOWLS | | | | |
| 1/4" | Standard | 1.5 | Standard | 51 L36221-120 |
| 3/8" | Standard | 1.5 | Standard | 105 L36231-120 |
| METAL BOWLS W/ SIGHT GLASS | | | | |
| 1/4" | Standard | 1.5 | Standard | 51 L36221-110 |
| 3/8" | Standard | 1.5 | Standard | 105 L36231-110 |
| POLYCARBONATE BOWLS W/ GUARD | | | | |
| 1/4" | Standard | 1.9 | Standard | 51 L36221-100 |
| 3/8" | Standard | 1.9 | Standard | 105 L36231-100 |

*Inlet pressure 90 psi (6.2 bar) with 7 psi (0.5 bar) drop.

Technical Data

| | | SERIES | | | |
|-----------------------|----------|--------|------|------|------|
| | | 1000 | 1500 | 2000 | 3000 |
| Lubricator body | Aluminum | • | • | • | • |
| Lubricator sight dome | Nylon | • | • | • | • |
| Lubricator inlet tube | Urethane | • | • | • | • |
| Seals | Nitrile | • | • | • | • |

| SERIES | POLYCARBONATE BOWL | METAL BOWL / METAL BOWL W/ SIGHT GLASS |
|---------------------------------|--------------------|--|
| Max Inlet Pressure (psi) | | |
| 1000 | 150 | 250 |
| 1500 | 150 | 250 |
| 2000 | 150 | 250 |
| 3000 | – | 250 |
| Temperature Range (°F) | | |
| 1000 | 23 – 125 | 23 – 175 |
| 1500 | 23 – 125 | 23 – 175 |
| 2000 | 23 – 125 | 23 – 175 |
| 3000 | – | 23 – 175 |

2000 Series

|  | Adjustment Option | Bowl Cap | Fill Option |  | Model |
|---|-------------------|----------|-------------|---|------------|
| NPT | | oz | | cfm* | |
| METAL BOWLS | | | | | |
| 3/8" | Standard | 3.7 | Standard | 85 | L36331-120 |
| 1/2" | Standard | 3.7 | Standard | 156 | L36341-120 |
| 3/4" | Standard | 3.7 | Standard | 222 | L36351-120 |
| METAL BOWLS W/ SIGHT GLASS | | | | | |
| 3/8" | Standard | 3.7 | Standard | 85 | L36331-110 |
| 1/2" | Standard | 3.7 | Standard | 156 | L36341-110 |
| 3/4" | Standard | 3.7 | Standard | 222 | L36351-110 |
| POLYCARBONATE BOWLS W/ GUARD | | | | | |
| 3/8" | Standard | 4.3 | Standard | 85 | L36331-100 |
| 1/2" | Standard | 4.3 | Standard | 156 | L36341-100 |
| 3/4" | Standard | 4.3 | Standard | 222 | L36351-100 |

3000 Series

|  | Adjustment Option | Bowl Cap | Fill Option |  | Model |
|---|-------------------|----------|-------------|---|------------|
| NPT | | oz | | cfm* | |
| METAL BOWLS | | | | | |
| 3/4" | Standard | 3.7 | Standard | 368 | L36451-120 |
| 1" | Standard | 3.7 | Standard | 328 | L36461-120 |
| METAL BOWLS W/ SIGHT GLASS | | | | | |
| 3/4" | Standard | 3.7 | Standard | 368 | L36451-110 |
| 1" | Standard | 3.7 | Standard | 328 | L36461-110 |

For further model options, port sizes, and information regarding flow charts, unit dimensions, replacement parts, and more, go to:

ingersollrandproducts.com/accessories

Piggyback Filters & Regulators

1000, 1500, 2000, & 3000 Series

1/8" • 1/4" • 3/8" • 1/2" • 3/4" • 1" Ports

Filter-regulators, or "piggybacks," combine the functions of both a filter and regulator. Piggybacks are compact and most effective when space is constrained. Piggybacks can be ordered with different filter elements and can be modified with different springs, depending on the filtration and air regulating requirements.



1000 Series

| ↓ ↑ | Drain Type | Bowl Cap | Spring Range | w/ Gauge | cfm* | Model |
|---|------------|----------|--------------|----------|------|------------|
| NPT | oz | psi | | | | |
| 5 MICRON • POLYCARBONATE BOWLS • RELIEVING | | | | | | |
| 1/8" | Manual | 0.5 | 0 – 140 | No | 43 | P39114-100 |
| 1/8" | Manual | 0.5 | 0 – 60 | No | 43 | P39114-200 |
| 1/8" | Manual | 0.5 | 0 – 30 | No | 43 | P39114-400 |
| 1/8" | Manual | 0.5 | 0 – 140 | Yes | 43 | P39114-600 |
| 1/8" | Auto | 0.7 | 0 – 60 | No | 43 | P39114-204 |
| 1/4" | Manual | 0.5 | 0 – 140 | No | 47 | P39124-100 |
| 1/4" | Manual | 0.5 | 0 – 60 | No | 47 | P39124-200 |
| 1/4" | Manual | 0.5 | 0 – 30 | No | 47 | P39124-400 |
| 1/4" | Manual | 0.5 | 0 – 140 | Yes | 47 | P39124-600 |
| 1/4" | Auto | 0.7 | 0 – 140 | No | 47 | P39124-104 |
| 1/4" | Auto | 0.7 | 0 – 60 | No | 47 | P39124-204 |
| 1/4" | Auto | 0.7 | 0 – 30 | No | 47 | P39124-404 |
| 1/4" | Auto | 0.7 | 0 – 140 | Yes | 47 | P39124-604 |
| 5 MICRON • METAL BOWLS • RELIEVING | | | | | | |
| 1/8" | Auto | 0.7 | 0 – 60 | Yes | 43 | P39114-624 |
| 1/4" | Manual | 0.4 | 0 – 140 | No | 47 | P39124-120 |
| 1/4" | Manual | 0.4 | 0 – 140 | Yes | 47 | P39124-620 |
| 1/4" | Auto | 0.7 | 0 – 140 | No | 47 | P39124-124 |

1500 Series

| ↓ ↑ | Drain Type | Bowl Cap | Spring Range | w/ Gauge | cfm* | Model |
|--|------------|----------|--------------|----------|------|------------|
| NPT | oz | psi | | | | |
| 5 MICRON • POLYCARBONATE BOWLS • RELIEVING | | | | | | |
| 1/4" | Manual | 1.3 | 0 – 140 | No | 72 | P39224-100 |
| 1/4" | Manual | 1.3 | 0 – 140 | Yes | 72 | P39224-600 |
| 1/4" | Auto | 1.0 | 0 – 140 | No | 72 | P39224-104 |
| 1/4" | Auto | 1.0 | 0 – 140 | Yes | 72 | P39224-604 |
| 3/8" | Manual | 1.3 | 0 – 140 | No | 90 | P39234-100 |
| 3/8" | Manual | 1.3 | 0 – 140 | Yes | 90 | P39234-600 |
| 3/8" | Auto | 1.0 | 0 – 140 | No | 90 | P39234-104 |
| 3/8" | Auto | 1.0 | 0 – 140 | Yes | 90 | P39234-604 |
| 5 MICRON • METAL BOWLS W/ SIGHT GLASS • RELIEVING | | | | | | |
| 1/4" | Manual | 1.3 | 0 – 140 | No | 72 | P39224-110 |
| 1/4" | Manual | 1.3 | 0 – 60 | No | 72 | P39224-210 |
| 1/4" | Manual | 1.3 | 0 – 140 | Yes | 72 | P39224-610 |
| 1/4" | Auto | 1.0 | 0 – 140 | No | 72 | P39224-114 |
| 3/8" | Manual | 1.3 | 0 – 140 | No | 90 | P39234-110 |
| 3/8" | Manual | 1.3 | 0 – 140 | Yes | 90 | P39234-610 |
| 5 MICRON • METAL BOWL • RELIEVING | | | | | | |
| 1/4" | Manual | 1.3 | 0 – 140 | Yes | 72 | P39224-620 |

*Inlet pressure 100 psi (6.9 bar), 90 psi (6.2 bar), with 33 psi (2.3 bar) drop.

Adjustment range can exceed spring rating on 0 – 30 psi and 0 – 60 psi regulators. The working range of the adjustment knob is designed to permit outlet pressures beyond the spring ratings in the 0 – 30 psi and 0 – 60 psi models. The adjustment knob is not designed to be a pressure limiting device. Limiting devices may be obtained only by special design. For optimal performance, regulators should not be set to ranges outside the specified spring range.

Technical Data

| | | SERIES | | | |
|----------------------------|----------|--------|------|------|------|
| | | 1000 | 1500 | 2000 | 3000 |
| Spring range options (psi) | 0 – 30 | • | • | • | • |
| | 0 – 60 | • | • | • | • |
| | 0 – 140 | • | • | • | – |
| | 0 – 200 | – | – | • | • |
| | 10 – 175 | – | – | – | • |

| SERIES | POLYCARBONATE BOWL | METAL BOWL / METAL BOWL W/ SIGHT GLASS |
|---------------------------------|--------------------|--|
| Max Inlet Pressure (psi) | | |
| 1000 | 150 | 250 |
| 1500 | 150 | 250 |
| 2000 | 150 | 250 |
| 3000 | – | 250 |
| Temperature Range (°F) | | |
| 1000 | 23 – 125 | 23 – 175 |
| 1500 | 23 – 125 | 23 – 175 |
| 2000 | 23 – 125 | 23 – 175 |
| 3000 | – | 23 – 175 |

2000 Series

| NPT | Drain Type | Bowl Cap | Spring Range | w/ Gauge | cfm* | Model |
|--|------------|----------|--------------|----------|------|------------|
| | | | | | | |
| 5 MICRON • POLYCARBONATE BOWLS • RELIEVING | | | | | | |
| 3/8" | Manual | 1.9 | 0 – 140 | No | 132 | P39334-100 |
| 3/8" | Manual | 1.9 | 0 – 140 | Yes | 132 | P39334-600 |
| 3/8" | Auto | 2.3 | 0 – 140 | No | 132 | P39334-104 |
| 3/8" | Auto | 2.3 | 0 – 140 | Yes | 132 | P39334-604 |
| 1/2" | Manual | 1.9 | 0 – 140 | No | 172 | P39344-100 |
| 1/2" | Manual | 1.9 | 0 – 140 | Yes | 172 | P39344-600 |
| 1/2" | Auto | 2.3 | 0 – 140 | No | 172 | P39334-104 |
| 1/2" | Auto | 2.3 | 0 – 140 | Yes | 172 | P39334-604 |
| 3/4" | Manual | 1.9 | 0 – 140 | No | 173 | P39354-100 |
| 3/4" | Manual | 1.9 | 0 – 140 | Yes | 173 | P39354-600 |
| 5 MICRON • METAL BOWLS W/ SIGHT GLASS • RELIEVING | | | | | | |
| 3/8" | Manual | 2.4 | 0 – 140 | No | 132 | P39334-110 |
| 3/8" | Manual | 2.4 | 0 – 140 | Yes | 132 | P39334-610 |
| 3/8" | Auto | 2.8 | 0 – 140 | No | 132 | P39334-114 |
| 3/8" | Auto | 2.8 | 0 – 140 | Yes | 132 | P39334-614 |
| 1/2" | Manual | 2.4 | 0 – 140 | No | 172 | P39344-110 |
| 1/2" | Manual | 2.4 | 0 – 140 | Yes | 172 | P39344-610 |
| 1/2" | Auto | 2.8 | 0 – 140 | No | 172 | P39344-114 |
| 1/2" | Auto | 2.8 | 0 – 140 | Yes | 172 | P39344-614 |
| 3/4" | Manual | 2.4 | 0 – 140 | No | 173 | P39354-110 |
| 3/4" | Manual | 2.4 | 0 – 140 | Yes | 173 | P39354-610 |

3000 Series

| NPT | Drain type | Bowl Cap | Spring Range | w/ Gauge | cfm* | Model |
|--|------------|----------|--------------|----------|------|------------|
| | | | | | | |
| 5 MICRON • METAL BOWLS W/ SIGHT GLASS • RELIEVING | | | | | | |
| 3/4" | Manual | 5.3 | 0 – 140 | Yes | 236 | P39454-610 |
| 3/4" | Auto | 5.9 | 0 – 140 | Yes | 236 | P39454-614 |
| 1" | Manual | 5.3 | 0 – 140 | Yes | 250 | P39464-610 |
| 1" | Auto | 5.9 | 0 – 140 | Yes | 250 | P39464-614 |

For further model options, port sizes, and information regarding flow charts, unit dimensions, replacement parts, and more, go to:

ingersollrandproducts.com/accessories

2-Piece Combinations

1000, 1500, 2000, & 3000 Series

1/8" • 1/4" • 3/8" • 1/2" • 3/4" • 1" Ports

Filters, regulators, lubricators, and piggybacks can be combined together to form combinations. They are typically strung together in the F+R+L arrangement (three-piece combo) and F/R+L (two-piece combo) arrangement, although other configurations are also used depending on application needs. ARO-Flo combination FRLs are easily assembled using modular spacer kits.



1000 Series

| NPT | Components | | cfm* | Model |
|--|------------------|------------|------|------------|
| | Filter-Regulator | Lubricator | | |
| MANUAL DRAIN • METAL BOWLS • RELIEVING • W/ GAUGE | | | | |
| 1/8" | P39114-620 | L36111-120 | 36 | C38111-620 |
| 1/4" | P39124-620 | L36121-120 | 44 | C38121-620 |
| MANUAL DRAIN • POLYCARBONATE BOWLS • RELIEVING • W/ GAUGE | | | | |
| 1/8" | P39114-600 | L36111-100 | 36 | C38111-600 |
| 1/4" | P39124-600 | L36121-100 | 44 | C38121-600 |
| AUTO DRAIN • METAL BOWL • RELIEVING • W/ GAUGE | | | | |
| 1/4" | P39124-624 | L36121-120 | 44 | C38121-621 |
| AUTO DRAIN • POLYCARBONATE BOWL • RELIEVING • W/ GAUGE | | | | |
| 1/4" | P39124-604 | L36121-100 | 44 | C38121-601 |

1500 Series

| NPT | Components | | cfm* | Model |
|---|------------------|------------|------|------------|
| | Filter-Regulator | Lubricator | | |
| MANUAL DRAIN • METAL BOWLS W/ SIGHT GLASS • RELIEVING • W/ GAUGE | | | | |
| 1/4" | P39224-610 | L36221-110 | 58 | C38221-610 |
| 3/8" | P39234-610 | L36231-110 | 71 | C38231-610 |
| MANUAL DRAIN • POLYCARBONATE BOWLS W/ GUARD • RELIEVING • W/ GAUGE | | | | |
| 1/4" | P39224-600 | L36221-100 | 58 | C38221-600 |
| 3/8" | P39234-600 | L36231-100 | 71 | C38231-600 |
| AUTO DRAIN • METAL BOWLS W/ SIGHT GLASS • RELIEVING • W/ GAUGE | | | | |
| 1/4" | P39224-614 | L36221-110 | 58 | C38221-611 |
| 3/8" | P39234-614 | L36231-110 | 71 | C38231-611 |
| AUTO DRAIN • POLYCARBONATE BOWLS W/ GUARD • RELIEVING • W/ GAUGE | | | | |
| 1/4" | P39224-604 | L36221-100 | 58 | C38221-601 |
| 3/8" | P39234-604 | L36231-100 | 71 | C38231-601 |

Note: Other combinations may be assembled by purchasing the individual components separately. Modular connector kits are required to connect the individual units together.

Technical Data

| | SERIES | | | |
|-------------------------------------|-----------------------------------|---------|---------|---------|
| | 1000 | 1500 | 2000 | 3000 |
| Spring range options (psi) | 0 – 140 | 0 – 140 | 0 – 140 | – |
| | – | – | – | 0 – 200 |
| Filter element | 5 micron | | | |
| Filter bowl cap – manual drain (oz) | POLYCARBONATE BOWL | | | |
| | 0.5 | 1.3 | 1.9 | – |
| | METAL BOWL | | | |
| | 0.4 | – | – | – |
| | METAL / METAL BOWL W/ SIGHT GLASS | | | |
| | – | 1.3 | 2.4 | 5.3 |
| Filter bowl cap – auto drain (oz) | POLYCARBONATE BOWL | | | |
| | 0.7 | 1.0 | 2.3 | – |
| | METAL BOWL | | | |
| | 0.7 | – | – | – |
| | METAL / METAL BOWL W/ SIGHT GLASS | | | |
| | – | 1.0 | 2.8 | 5.9 |
| Lubricator bowl capacity | POLYCARBONATE BOWL | | | |
| | 0.6 | 1.9 | 4.3 | – |
| | METAL BOWL | | | |
| | 0.7 | – | – | – |
| | METAL / METAL BOWL W/ SIGHT GLASS | | | |
| | – | 1.5 | 3.7 | 3.2 |

| SERIES | POLYCARBONATE BOWL | METAL BOWL / METAL BOWL W/ SIGHT GLASS |
|---------------------------------|--------------------|--|
| Max Inlet Pressure (psi) | | |
| 1000 | 150 | 250 |
| 1500 | 150 | 250 |
| 2000 | 150 | 250 |
| 3000 | – | 250 |
| Temperature Range (°F) | | |
| 1000 | 23 – 125 | 23 – 175 |
| 1500 | 23 – 125 | 23 – 175 |
| 2000 | 23 – 125 | 23 – 175 |
| 3000 | – | 23 – 175 |

2000 Series

| ↓ ↑ | Components | | cfm* | Model |
|---|------------------|------------|------|------------|
| | Filter-Regulator | Lubricator | | |
| NPT | | | | |
| MANUAL DRAIN • METAL BOWLS W/ SIGHT GLASS • RELIEVING • W/ GAUGE | | | | |
| 3/8" | P39334-610 | L36331-110 | 96 | C38331-610 |
| 1/2" | P39344-610 | L36341-110 | 120 | C38341-610 |
| 3/4" | P39354-610 | L36351-110 | 142 | C38351-610 |
| MANUAL DRAIN • POLYCARBONATE BOWLS W/ GUARD • RELIEVING • W/ GAUGE | | | | |
| 3/8" | P39334-600 | L36331-100 | 96 | C38331-600 |
| 1/2" | P39344-600 | L36341-100 | 120 | C38341-600 |
| 3/4" | P39354-600 | L36351-100 | 142 | C38351-600 |
| AUTO DRAIN • METAL BOWLS W/ SIGHT GLASS • RELIEVING • W/ GAUGE | | | | |
| 3/8" | P39334-614 | L36331-110 | 96 | C38331-611 |
| 1/2" | P39344-614 | L36341-110 | 120 | C38341-611 |
| 3/4" | P39354-614 | L36351-110 | 142 | C38351-611 |
| AUTO DRAIN • POLYCARBONATE BOWLS W/ GUARD • RELIEVING • W/ GAUGE | | | | |
| 3/8" | P39334-604 | L36331-100 | 96 | C38331-601 |
| 1/2" | P39344-604 | L36341-100 | 120 | C38341-601 |
| 3/4" | P39354-604 | L36351-100 | 142 | C38351-601 |

3000 Series

| ↓ ↑ | Components | | cfm* | Model |
|---|------------------|------------|------|------------|
| | Filter-Regulator | Lubricator | | |
| NPT | | | | |
| MANUAL DRAIN • METAL BOWLS W/ SIGHT GLASS • RELIEVING • W/ GAUGE | | | | |
| 3/4" | P39454-610 | L36451-110 | 201 | C38451-610 |
| 1" | P39464-610 | L36461-110 | 208 | C38461-610 |
| AUTO DRAIN • METAL BOWLS W/ SIGHT GLASS • RELIEVING • W/ GAUGE | | | | |
| 3/4" | P39454-614 | L36451-110 | 201 | C38451-611 |
| 1" | P39464-614 | L36461-110 | 208 | C38461-611 |

For further model options, port sizes, and information regarding flow charts, unit dimensions, replacement parts, and more, go to:

ingersollrandproducts.com/accessories

3-Piece Combinations

1000, 1500, 2000, & 3000 Series

1/8" • 1/4" • 3/8" • 1/2" • 3/4" • 1" Ports

Filters, regulators, lubricators, and piggybacks can be combined together to form combinations. They are typically strung together in the F+R+L arrangement (three-piece combo) and F/R+L (two-piece combo) arrangement, although other configurations are also used depending on application needs. ARO-Flo combination FRLs are easily assembled using modular spacer kits.



1000 Series

| NPT | Components | | | cfm* | Model |
|--|------------|------------|------------|------|------------|
| | Filter | Regulator | Lubricator | | |
| MANUAL DRAIN • METAL BOWLS • RELIEVING • W/ GAUGE | | | | | |
| 1/8" | F35111-420 | R37111-600 | L36111-120 | 34 | C38111-820 |
| 1/4" | F35121-420 | R37121-600 | L36121-120 | 46 | C38121-820 |
| MANUAL DRAIN • POLYCARBONATE BOWLS • RELIEVING • W/ GAUGE | | | | | |
| 1/8" | F35111-400 | R37111-600 | L36111-100 | 34 | C38111-800 |
| 1/4" | F35121-400 | R37121-600 | L36121-100 | 46 | C38121-800 |
| AUTO DRAIN • METAL BOWL • RELIEVING • W/ GAUGE | | | | | |
| 1/4" | F35121-421 | R37121-600 | L36121-120 | 46 | C38121-821 |
| AUTO DRAIN • POLYCARBONATE BOWL • RELIEVING • W/ GAUGE | | | | | |
| 1/4" | F35121-401 | R37121-600 | L36121-100 | 46 | C38121-801 |

1500 Series

| NPT | Components | | | cfm* | Model |
|---|------------|------------|------------|------|------------|
| | Filter | Regulator | Lubricator | | |
| MANUAL DRAIN • METAL BOWLS W/ SIGHT GLASS • RELIEVING • W/ GAUGE | | | | | |
| 1/4" | F35221-410 | R37221-600 | L36221-110 | 61 | C38221-810 |
| 3/8" | F35231-410 | R37231-600 | L36231-110 | 85 | C38231-810 |
| MANUAL DRAIN • POLYCARBONATE BOWLS W/ GUARD • RELIEVING • W/ GAUGE | | | | | |
| 1/4" | F35221-400 | R37221-600 | L36221-100 | 61 | C38221-800 |
| 3/8" | F35231-400 | R37231-600 | L36231-100 | 85 | C38231-800 |
| AUTO DRAIN • METAL BOWLS W/ SIGHT GLASS • RELIEVING • W/ GAUGE | | | | | |
| 1/4" | F35221-411 | R37221-600 | L36221-110 | 61 | C38221-811 |
| 3/8" | F35231-411 | R37231-600 | L36231-110 | 85 | C38231-811 |
| AUTO DRAIN • POLYCARBONATE BOWLS W/ GUARD • RELIEVING • W/ GAUGE | | | | | |
| 1/4" | F35221-401 | R37221-600 | L36221-100 | 61 | C38221-801 |
| 3/8" | F35231-401 | R37231-600 | L36231-100 | 85 | C38231-801 |

Note: Other combinations may be assembled by purchasing the individual components separately. Modular connector kits are required to connect the individual units together.

*Inlet pressure 100 psi (6.9 bar), 90 psi (6.2 bar), with 33 psi (2.3 bar) drop.

Technical Data

| | SERIES | | | |
|--|-----------------------------------|---------|---------|---------|
| | 1000 | 1500 | 2000 | 3000 |
| Spring range options (psi) | 0 – 140 | 0 – 140 | 0 – 140 | – |
| | – | – | – | 0 – 200 |
| Filter element | 5 micron | | | |
| Filter bowl cap – manual drain (oz) | POLYCARBONATE BOWL | | | |
| | 0.5 | 1.3 | 1.9 | – |
| | METAL BOWL | | | |
| | 0.4 | – | – | – |
| | METAL / METAL BOWL W/ SIGHT GLASS | | | |
| | – | 1.3 | 2.4 | 5.3 |
| Filter bowl cap – auto drain (oz) | POLYCARBONATE BOWL | | | |
| | 0.7 | 1.0 | 2.3 | – |
| | METAL BOWL | | | |
| | 0.7 | – | – | – |
| | METAL / METAL BOWL W/ SIGHT GLASS | | | |
| | – | 1.0 | 2.8 | 5.9 |
| Lubricator bowl capacity | POLYCARBONATE BOWL | | | |
| | 0.6 | 1.9 | 4.3 | – |
| | METAL BOWL | | | |
| | 0.7 | – | – | – |
| | METAL / METAL BOWL W/ SIGHT GLASS | | | |
| | – | 1.5 | 3.7 | 3.2 |

| SERIES | POLYCARBONATE BOWL | METAL BOWL / METAL BOWL W/ SIGHT GLASS |
|---------------------------------|--------------------|--|
| Max Inlet Pressure (psi) | | |
| 1000 | 150 | 250 |
| 1500 | 150 | 250 |
| 2000 | 150 | 250 |
| 3000 | – | 250 |
| Temperature Range (°F) | | |
| 1000 | 23 – 125 | 23 – 175 |
| 1500 | 23 – 125 | 23 – 175 |
| 2000 | 23 – 125 | 23 – 175 |
| 3000 | – | 23 – 175 |

2000 Series

|  | Components | | | | |  | Model |
|---|------------|------------|------------|-----|------------|---|-------|
| | Filter | Regulator | Lubricator | | | | |
| NPT | | | | | | cfm* | |
| MANUAL DRAIN • METAL BOWLS W/ SIGHT GLASS • RELIEVING • W/ GAUGE | | | | | | | |
| 3/8" | F35331-410 | R37331-600 | L36331-110 | 99 | C38331-810 | | |
| 1/2" | F35341-410 | R37341-600 | L36341-110 | 150 | C38341-810 | | |
| 3/4" | F35351-410 | R37351-600 | L36351-110 | 171 | C38351-810 | | |
| MANUAL DRAIN • POLYCARBONATE BOWLS W/ GUARD • RELIEVING • W/ GAUGE | | | | | | | |
| 3/8" | F35331-400 | R37331-600 | L36331-100 | 99 | C38331-800 | | |
| 1/2" | F35341-400 | R37341-600 | L36341-100 | 150 | C38341-800 | | |
| 3/4" | F35351-400 | R37351-600 | L36351-100 | 171 | C38351-800 | | |
| AUTO DRAIN • METAL BOWLS W/ SIGHT GLASS • RELIEVING • W/ GAUGE | | | | | | | |
| 3/8" | F35331-411 | R37331-600 | L36331-110 | 99 | C38331-811 | | |
| 1/2" | F35341-411 | R37341-600 | L36341-110 | 150 | C38341-811 | | |
| 3/4" | F35351-411 | R37351-600 | L36351-110 | 171 | C38351-811 | | |
| AUTO DRAIN • POLYCARBONATE BOWLS W/ GUARD • RELIEVING • W/ GAUGE | | | | | | | |
| 3/8" | F35331-401 | R37331-600 | L36331-100 | 99 | C38331-801 | | |
| 1/2" | F35341-401 | R37341-600 | L36341-100 | 150 | C38341-801 | | |
| 3/4" | F35351-401 | R37351-600 | L36351-100 | 171 | C38351-801 | | |

3000 Series

|  | Components | | | | |  | Model |
|---|------------|------------|------------|-----|------------|---|-------|
| | Filter | Regulator | Lubricator | | | | |
| NPT | | | | | | cfm* | |
| MANUAL DRAIN • METAL BOWLS W/ SIGHT GLASS • RELIEVING • W/ GAUGE | | | | | | | |
| 3/4" | F35451-410 | R37451-600 | L36451-110 | 199 | C38451-810 | | |
| 1" | F35461-410 | R37461-600 | L36461-110 | 215 | C38461-810 | | |
| AUTO DRAIN • METAL BOWLS W/ SIGHT GLASS • RELIEVING • W/ GAUGE | | | | | | | |
| 3/4" | F35451-411 | R37451-600 | L36451-110 | 199 | C38451-811 | | |
| 1" | F35461-411 | R37461-600 | L36461-110 | 215 | C38461-811 | | |

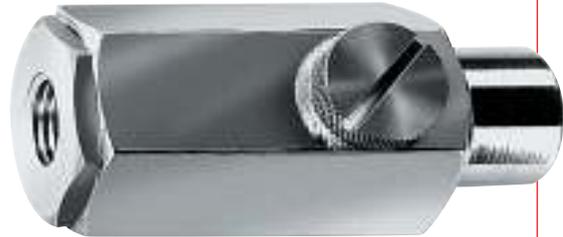
For further model options, port sizes, and information regarding flow charts, unit dimensions, replacement parts, and more, go to:

ingersollrandproducts.com/accessories

Inline Series Lubricators

1/4" • 3/8" • 1/2" • 3/4" Ports

Inline lubricators ensure proper lubrication for small pneumatic hand tools. These inline lubricators put the oil source right at the tool. Oil capacity is 1/4 oz. (1 ml); enough to last through an average eight-hour shift. This lubricator requires cyclical or intermittent airflow for proper operation, and consequently works best when installed at the tool inlet or on a short hose near the tool.



Technical Data

| | |
|------------------------------|---|
| Flow capacity* | 1/4" — 36.0 cfm (17.0 dm ³ /s) |
| Flow capacity* | 3/8" — 38.1 cfm (18.0 dm ³ /s) |
| Operating temperature | 32° - 150° F (0° - 65.5° C) |
| Max supply pressure | 200 psig (13.8 bar) |
| Useful retention** | 0.25 oz (7.4 cm ³) |
| Port size | NPT / BSPT-Rc — 1/4", 3/8" |
| Weight | 0.2 lb (0.1 kg) |

*Inlet pressure of 150 psig (10.3 bar). Pressure drop of 5 psid (0.3 bar).

**Useful retention refers to usable volume.

|  |  | Bowl Size |  | Model |
|---|---|------------------|---|--------------|
| NPT | cfm* | oz | lb | |
| INLINE LUBRICATORS | | | | |
| 1/4" | 36 | 0.25 | 0.2 | L01-02-000 |
| 3/8" | 38.1 | 0.25 | 0.2 | L01-03-000 |
| 3/4" | 45 | 5 | 1.5 | 6LUB12 |
| 3/4" | 80 | 8 | 2 | 8LUB12 |

Note: The L01 cannot be filled under pressure.

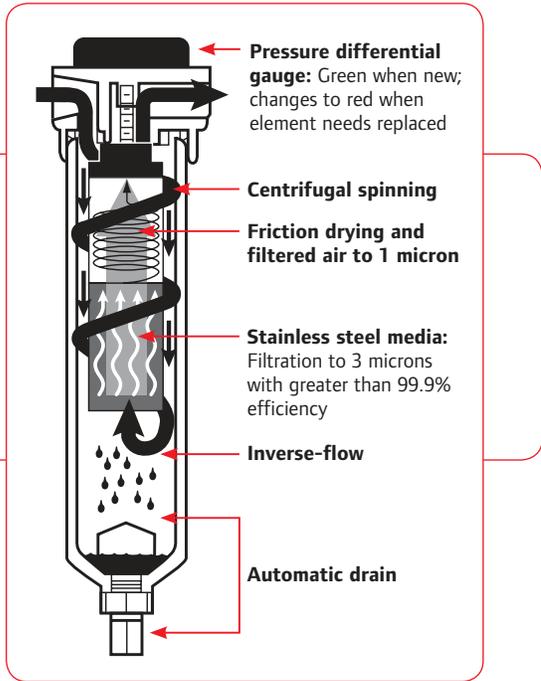
Liquidator™ Filters

1/4" • 3/8" • 1/2" • 3/4" Ports

You can depend on Ingersoll Rand Liquidator™ filters to deliver clean, dry air to all of your operations. Liquidator filters are designed to extract large volumes of liquid contaminants, foreign particles, and condensation in air lines. They are ideal for critical applications in paint and body shops, food processing and packaging, hospital and dental equipment, process controls, printing plants, electronics clean rooms, sandblasting, and air tool operations.

Stacked Liquidators — Solutions to Air Line Contaminants

- Air quality safe enough for your most demanding applications.
- Instrument air quality as clean as 0.01 micron.
- Air-logic dew point suppressed desiccant dryer system without the hassles.



| Model | | Description | cfm |
|---|--------|---|-------|
| STACKED LIQUIDATORS W/ POLYCARBONATE BOWLS | | | |
| 8842-W1-020 | 1/4" | Stacked Liquidator, indicator, & automatic drain | 20 |
| 8842-W1-035 | 1/4" | Stacked Liquidator, indicator, & automatic drain | 35 |
| 8843-W1-035 | 3/8" | Stacked Liquidator, indicator, & automatic drain | 35 |
| 8844-W1-035 | 1/2" | Stacked Liquidator, indicator, & automatic drain | 35 |
| 8844-W1-060 | 1/2" | Stacked Liquidator, indicator, & automatic drain | 60 |
| 8844-W1-090 | 1/2" | Stacked Liquidator, indicator, & automatic drain | 90 |
| 8846-W1-090 | 3/4" | Stacked Liquidator, indicator, & automatic drain | 90 |
| 8848-W1-150 | 1" | Stacked Liquidator, indicator, & automatic drain | 150 |
| STACKED LIQUIDATORS W/ METAL BOWLS | | | |
| 8844-W1-M60 | 1/2" | Stacked Liquidator, indicator, & automatic drain | 60 |
| 8846-W1-M90 | 3/4" | Stacked Liquidator, indicator, & automatic drain | 90 |
| 8848-W1-M150 | 1" | Stacked Liquidator, indicator, & automatic drain | 150 |
| 8830-W1-000 | 1-1/4" | Stacked Liquidator & automatic drain | 400 |
| 8852-W1-M300 | 1-1/2" | Stacked Liquidator, indicator, & automatic drain | 300 |
| 8832-W1-000 | 1-1/2" | Stacked Liquidator & automatic drain | 400 |
| 8854-W1-M300 | 2" | Stacked Liquidator, indicator, & automatic drain | 300 |
| 8834-W1-000 | 2" | Stacked Liquidator & automatic drain | 700 |
| SIDE-BY-SIDE LIQUIDATORS | | | |
| 8828-W2-000 | 1" | Side-by-side Liquidators, polycarbonate bowl, & automatic drain | 175 |
| 8828-W2-M00 | 1" | Side-by-side Liquidators, metal bowl, & automatic drain | 175 |
| ASA FLANGE LIQUIDATORS | | | |
| 8836-W1-M2500 | 3" ASA | Flanged main line separator filter | 2,500 |
| 8848-W1-M2500 | 4" ASA | Flanged main line separator filter | 2,500 |
| 8860-W1-M5500 | 6" ASA | Flanged main line separator filter | 5,500 |



| Model | | Description | cfm |
|--|------|--|-----|
| DESICCANT DRYERS & PREP STATION | | | |
| PDS-2000 | 1/2" | Paint booth desiccant dryer system with 1/4" regulator and gauge | 25 |
| EAD-6000 | 1/2" | Prep station air dryer with 1/4" regulator and gauge | 60 |

For further model options, port sizes, and information regarding flow charts, unit dimensions, replacement parts, and more, go to:

ingersollrandproducts.com/accessories

Accessories

Modular threaded lockout valve



Meets OSHA regulation 1910.147. This valve provides a safety lockout to prevent accidental machine start-up. When the slider is shifted into the lockout position, inlet air is blocked and downstream air is exhausted to atmosphere. The slider

contains a hole that enables the user to attach a lock to the unit, preventing accidental shifting. The lockout valve is modular and can be connected via the modular clamp spacers, or threaded pipe. Order modular clamps separately.

| Model Number | Size | Material | Port Size | Description |
|--------------|-------------|------------------------|------------|---------------|
| 104390-1 | 1000 Series | Body: aluminum | 1/8" – NPT | Lockout valve |
| 104390-2 | | | 1/4" – NPT | |
| 104390-A | | | 1/8" – BSP | |
| 104390-B | | | 1/4" – BSP | |
| 104391-2 | 1500 Series | Lockout switch: acetal | 1/4" – NPT | |
| 104391-3 | | | 3/8" – NPT | |
| 104391-B | | | 1/4" – BSP | |
| 104391-C | | | 3/8" – BSP | |
| 104392-3 | 2000 Series | Lockout switch: acetal | 3/8" – NPT | |
| 104392-4 | | | 1/2" – NPT | |
| 104392-C | | | 3/8" – BSP | |
| 104392-D | | | 1/2" – BSP | |
| 104393-5 | 3000 Series | Lockout switch: acetal | 3/4" – NPT | |
| 104393-6 | | | 1" – NPT | |
| 104393-E | | | 3/4" – BSP | |
| 104393-F | | | 1" – BSP | |

Modular check valve



The modular check valve is used to prevent downstream pressure loss. Acting as a one-way directional flow valve, this device is generally installed downstream of the regulator. The modular check valve is connected via modular clamps. Order modular clamps separately.

| Model Number | Size | Material | Port Size | Top Port (NPT) | Description | |
|--------------|-------------|----------------|----------------|----------------|-------------|------|
| 104477-1 | 1000 Series | Body: aluminum | 1/4" | 1/8" | Check valve | |
| 104477-2 | | | 1/4" | 1/4" | | |
| 104478-1 | 1500 Series | | Seals: nitrile | 3/8" | | 1/8" |
| 104478-2 | | | | 3/8" | | 1/4" |
| 104479-2 | 2000 Series | Seals: nitrile | 1/2" | 1/4" | | |
| 104479-3 | | | 1/2" | 3/8" | | |

Soft start valve



Machine system start-up and the related air surge can both damage and reduce the operating efficiency of its pneumatic components. Over time, the air surge on components takes an even heavier toll on the machine's overall productivity and on your maintenance schedule. The ARO Soft-Start Valve eliminates the surge at start-up to help protect your system.

| Model Number | Description |
|--------------|------------------|
| SSV343-024-D | 1/2" NPT, 24 DC |
| SSV343-120-A | 1/2" NPT, 120 AC |
| SSV3D3-024-D | 1/2" BSP, 24 DC |
| SSV3D3-120-A | 1/2" BSP, 120 AC |

| Technical Data | | | |
|-----------------------------------|--|--------------------------------|--------------------------------|
| Size | 2000 Series, 1/2" port size | Voltage allowance | -15% ~ +10% |
| Operating pressure range | 44 – 130 psi (3 – 9 bar) | Power consumption (AC) inrush | 5.6 VA (50 Hz), 5.0 VA (60 Hz) |
| Gauge port | 1/8" | Power consumption (AC) holding | 3.3 VA (50 Hz), 2.3 VA (60 Hz) |
| Max fluid and ambient temperature | 122°F (50°C) | Power consumption (DC) | 1.8 W / 2 W (with lamp) |
| Effective orifice size | P->A = .098 in ² (63 mm ²), A->R = .068 in ² (44 mm ²) | Electrical connection | Din connector |
| Voltage options | 120 AC, 24 DC | Manual override | Locking |

Pressure switch



The use of a pressure switch allows for the sensing of high- or low-pressure thresholds. The switch is designed to be used with the modular manifold block. The pressure switch is offered in 1/8" NPT.

| Model Number | Port Size | Material | Description |
|--------------|-----------|---|-----------------|
| 104415 | 1/8" | Bracket: zinc O-ring: nitrile Body: nylon | Pressure switch |

T-bracket



T-brackets provide an excellent solution for wall-mounting your FRL unit. They can be used for single or combination configurations in the modular arrangement. T-type brackets give good wall-to-unit clearance for installing fittings or other connections. Kit includes bracket, modular clamp, and bolt(s).

| Model Number | Size | Material | Description |
|--------------|-------------|----------|--------------------|
| 104399 | 1000 Series | Nylon | T-type wall mounts |
| 104400 | 1500 Series | Nylon | |
| 104401 | 2000 Series | Aluminum | |
| 104402 | 3000 Series | Aluminum | |

Modular clamp & spacer kit



Modular clamps are used to connect any two modular FRL units or accessories together. The kit includes both a front and a back clamp, along with the connecting bolt(s). The steel bolts are metric hex head.

| Model Number | Size | Material | Description |
|--------------|-------------|-----------------|----------------------------|
| 104394 | 1000 Series | Nylon | Modular / clamp spacer kit |
| 104395 | 1500 Series | Aluminum | |
| 104396 | 2000 Series | Aluminum & zinc | |
| 104397 | 3000 Series | Aluminum | |

Panel nut



The panel nut allows the user to attach the regulator or piggyback unit to a panel or L-bracket. Panel nuts are included as standard on all ARO-Flo Series regulators and piggybacks.

| Model Number | Size | Material | Description |
|--------------|-------------|----------|-------------|
| 104416 | 1000 Series | Nylon | Panel nut |
| 104417 | 1500 Series | | |
| 104418 | 2000 Series | | |
| 104419 | 3000 Series | | |

C-bracket



C-brackets are designed to hold either a single filter or single lubricator unit. The bracket has two holes to allow for the unit to be bolted to a wall or other flat surface. Mounting hardware not included.

| Model Number | Size | Material | Description |
|--------------|-------------|----------|---------------------|
| 104407 | 1000 Series | Steel | C-type wall bracket |
| 104408 | 1500 Series | | |
| 104409* | 2000 Series | | |
| 104410 | 3000 Series | | |

*Does not fit 3/4" NPT filter

L-bracket



L-brackets are designed to allow the user to mount a regulator or piggyback unit to a wall or flat surface. A panel nut should be used to keep the unit in place. Panel nuts are included as standard equipment on all ARO-Flo regulators and piggybacks, and replacements can be ordered separately.

| Model Number | Size | Material | Description |
|--------------|-------------|----------|---------------------|
| 104403 | 1000 Series | Steel | L-type wall bracket |
| 104404 | 1500 Series | | |
| 104405 | 2000 Series | | |
| 104406 | 3000 Series | | |

For further model options, port sizes, and information regarding flow charts, unit dimensions, replacement parts, and more, go to:

ingersollrandproducts.com/accessories

Accessories

Modular threaded pipe adapter



Pipe adapter blocks allow single or multiple units to be plumbed to an air system in the modular arrangement. They allow for ease of service when removing a unit from the line, and can also allow for different pipe diameters to be used in the plumbing setup. Kit includes two pipe adapters. Order modular clamps separately.

| Model Number | Size | Material | Port Size | Description |
|--------------|-------------|----------------|------------|---------------------------------|
| 104474-1 | 1000 Series | Body: aluminum | 1/8" – NPT | Modular (threaded) pipe adapter |
| 104474-2 | | | 1/4" – NPT | |
| 104474-A | | | 1/8" – BSP | |
| 104474-B | | | 1/4" – BSP | |
| 104475-2 | 1500 Series | | 1/4" – NPT | |
| 104475-3 | | | 3/8" – NPT | |
| 104475-B | | | 1/4" – BSP | |
| 104475-C | | | 3/8" – BSP | |
| 104398-3 | 2000 Series | | 3/8" – NPT | |
| 104398-4 | | | 1/2" – NPT | |
| 104398-C | | | 3/8" – BSP | |
| 104398-D | | | 1/2" – BSP | |
| 104476-5 | 3000 Series | | 3/4" – NPT | |
| 104476-6 | | | 1" – NPT | |
| 104476-E | | | 3/4" – BSP | |
| 104476-F | | | 1" – BSP | |

Gauges & port blocks



In the absence of the standard integral gauge, a gauge port block can be used with a screw-in aftermarket gauge. All regulators, piggybacks, and combo units ordered without a gauge will come with a gauge port block supplied as standard. All port blocks are 1/8" NPT.

| Model Number | Size | Material | Description |
|--------------|--------------------|--|---------------------------------|
| 104467 | 1000 / 1500 Series | Body: nylon Thread: steel Lens: poly | Gauge port block |
| 104469 | 2000 / 3000 Series | | Gauge port block |
| 104310 | 1000 / 1500 Series | | Flush-mount gauge (0 – 140 psi) |
| 104334 | 2000 / 3000 Series | | Flush-mount gauge (0 – 140 psi) |

Modular threaded manifold block kit



Using the modular manifold block is an excellent way to provide circuit design flexibility. Normally installed downstream of the regulator, the manifold block allows clean, regulated air to be sent to signal or other equipment. The manifold blocks are offered in different port configurations to suit different application needs. Use modular clamps to attach to other components or threaded pipe. Order modular clamps separately.

| Model Number | Size | Material | Port Size | Description |
|--------------|-------------|----------------|-------------|--------------------|
| 104411-1-1 | 1000 Series | Body: aluminum | 1/8" x 1/8" | Manifold block kit |
| 104411-2-2 | | | 1/4" x 1/4" | |
| 104412-2-1 | 1500 Series | | 1/4" x 1/8" | |
| 104412-2-2 | | | 1/4" x 1/4" | |
| 104412-3-1 | | | 3/8" x 1/8" | |
| 104412-3-2 | | | 3/8" x 1/4" | |
| 104413-3-2 | 2000 Series | | 3/8" x 1/4" | |
| 104413-3-3 | | | 3/8" x 3/8" | |
| 104413-4-2 | | | 1/2" x 1/4" | |
| 104413-4-3 | | | 1/2" x 3/8" | |



Add-on gauges

| Model | Port | Range (psi) | Size | Case | Lens |
|--------|------|-------------|------|---------|---------------|
| 104491 | 1/8" | 0 – 45 | 1.5" | Plastic | Polycarbonate |
| 104488 | 1/8" | 0 – 45 | 1.5" | Steel | Glass |
| 104498 | 1/8" | 0 – 45 | 2" | Plastic | Polycarbonate |
| 104494 | 1/8" | 0 – 45 | 2" | Steel | Glass |
| 104492 | 1/8" | 0 – 75 | 1.5" | Plastic | Polycarbonate |
| 104489 | 1/8" | 0 – 75 | 1.5" | Steel | Glass |
| 104499 | 1/8" | 0 – 75 | 2" | Plastic | Polycarbonate |
| 104495 | 1/8" | 0 – 75 | 2" | Steel | Glass |
| 104493 | 1/8" | 0 – 160 | 1.5" | Plastic | Polycarbonate |
| 104490 | 1/8" | 0 – 160 | 1.5" | Steel | Glass |
| 104500 | 1/8" | 0 – 160 | 2" | Plastic | Polycarbonate |
| 104496 | 1/8" | 0 – 160 | 2" | Steel | Glass |
| 104504 | 1/4" | 0 – 160 | 2" | Plastic | Polycarbonate |
| 104502 | 1/4" | 0 – 160 | 2" | Steel | Glass |
| 104501 | 1/8" | 0 – 250 | 2" | Plastic | Polycarbonate |
| 104497 | 1/8" | 0 – 250 | 2" | Steel | Glass |
| 104505 | 1/4" | 0 – 250 | 2" | Plastic | Polycarbonate |
| 104503 | 1/4" | 0 – 250 | 2" | Steel | Glass |

Hoses & Fittings



Hoses and Fittings



Premium Rubber Hose

Features

- Longer life than PVC
- Reinforced innermost tube, resistant to the materials it is intended to convey
- Extended life bend restricters
- Increased flexibility in cold temperatures
- Designed to withstand the harshest jobsite conditions
- Extended service life due to number of threads, spirals, and thickness of rubber tube

| Model |  |  |
|----------|--|---|
| | in | ft |
| 38016820 | 3/8" | 50' |

Bulk Hose

| Model |  | Description |  |
|-------|---|---------------|---|
| | in | | psig |
| 50923 | 1/4" | 1 braid rayon | 250 |
| BH6C | 3/8" | 1 braid rayon | 250 |
| BH8A | 1/2" | 1 braid rayon | 250 |
| BH12A | 3/4" | 1 braid rayon | 200 |

Whip Hoses



| Model |  |  |  |  |  |
|----------|---|---|---|---|---|
| | Male NPT | Female NPT | in | ft | psig |
| R00H-130 | 1/8" | 1/4" | 1/4" | 8' | 250 |
| R0-130 | 1/4" | 3/8" | 5/16" | 8' | 250 |
| R1A-130 | 1/4" | 3/8" | 3/8" | 8' | 250 |
| 510-130 | 3/8" | 3/8" | 3/8" | 8' | 250 |

Assembled Construction Tool Hoses

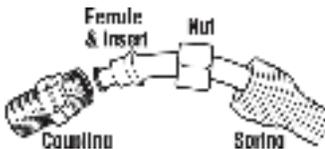


| Model |  | Description |  |
|----------|---|--|---|
| | in | | ft |
| 22040687 | 1/2" | Double-banded universal to 3/8" NPT straight male | 8' |
| 22041453 | 1/2" | Double-banded universal to 1/2" NPT straight male | 8' |
| 22041461 | 1/2" | Double-banded universal to 1/2" NPT swivel inlet | 8' |
| 22041479 | 1/2" | Double-banded universal to 7/8" - 24" NPT swivel inlet | 8' |
| 22040679 | 3/4" | Double-banded universals on both ends, 300 psi max | 50' |

Nylon Recoil Hoses

Features

- Permanently coiled hoses automatically return to their original position, keeping them off the floor and out of your way as you work
- Made from abrasive-resistant and memory-resilient Nylon II
- For use with air, gases, water, and liquids compatible with Nylon II
- Certified to a maximum pressure of 200 psi
- Fittings and hose ends are protected by spring guards
- Available with diameters of 1/4", 3/8", 1/2", and 3/4"
- Available in bulk lengths of 12', 25', 50', and 100'



| Model |  NPT |  in |  in |  in |  ft |  ft |
|-------------------------------------|---|--|--|--|--|--|
| SWIVEL COUPLING AT ONE END | | | | | | |
| N14-12A | 1/4" | 1/4" | 3-1/2" | 6" | 10' | 12' |
| N14-25A | 1/4" | 1/4" | 3-1/2" | 10-1/2" | 22' | 25' |
| N14-50A | 1/4" | 1/4" | 3-1/2" | 21" | 45' | 50' |
| N38-12A | 3/8" | 3/8" | 5-5/8" | 5" | 10' | 12' |
| N38-25A | 3/8" | 3/8" | 5-5/8" | 10-1/4" | 21' | 25' |
| N38-50A | 3/8" | 3/8" | 5-5/8" | 21" | 44' | 50' |
| N12-12A | 1/2" | 1/2" | 9" | 5" | 9' | 12' |
| N12-25A | 1/2" | 1/2" | 9" | 9" | 18' | 25' |
| N12-50A | 1/2" | 1/2" | 9" | 19" | 41' | 50' |
| SWIVEL COUPLING AT BOTH ENDS | | | | | | |
| N14-12B | 1/4" | 1/4" | 3-1/2" | 6" | 10' | 12' |
| N14-25B | 1/4" | 1/4" | 3-1/2" | 10-1/2" | 22' | 25' |
| N14-50B | 1/4" | 1/4" | 3-1/2" | 21" | 45' | 50' |
| N38-124B | 1/4" | 3/8" | 5-5/8" | 5" | 10' | 12' |
| N38-254B | 1/4" | 3/8" | 5-5/8" | 10-1/4" | 21' | 25' |
| N38-504B | 1/4" | 3/8" | 5-5/8" | 21" | 44' | 50' |
| N38-12B | 3/8" | 3/8" | 5-5/8" | 5" | 10' | 12' |
| N38-25B | 3/8" | 3/8" | 5-5/8" | 10-1/4" | 21' | 25' |
| N38-50B | 3/8" | 3/8" | 5-5/8" | 21" | 44' | 50' |
| N12-12B | 1/2" | 1/2" | 9" | 5" | 9' | 12' |
| N12-25B | 1/2" | 1/2" | 9" | 9" | 18' | 25' |
| N12-50B | 1/2" | 1/2" | 9" | 18" | 41' | 50' |
| N34-12B | 3/4" | 3/4" | 12-1/2" | 4-1/2" | 10' | 12' |
| N34-25B | 3/4" | 3/4" | 12-1/2" | 9" | 17' | 25' |
| N34-50B | 3/4" | 3/4" | 12-1/2" | 16" | 35' | 50' |
| RIGID COUPLING AT BOTH ENDS | | | | | | |
| N14-12 | 1/4" | 1/4" | 3-1/2" | 6" | 10' | 12' |
| N14-25 | 1/4" | 1/4" | 3-1/2" | 10-1/2" | 22' | 25' |
| N14-50 | 1/4" | 1/4" | 3-1/2" | 21" | 45' | 50' |
| N38-12 | 3/8" | 3/8" | 5-5/8" | 5" | 10' | 12' |
| N38-25 | 3/8" | 3/8" | 5-5/8" | 10-1/4" | 21' | 25' |
| N38-50 | 3/8" | 3/8" | 5-5/8" | 21" | 44' | 50' |
| N12-12 | 1/2" | 1/2" | 9" | 5" | 9' | 12' |
| N12-25 | 1/2" | 1/2" | 9" | 9" | 18' | 25' |
| N12-50 | 1/2" | 1/2" | 9" | 18" | 41' | 50' |
| BULK HOSES | | | | | | |
| N14-100 | — | 1/4" | 3-1/2" | 45" | 90' | 100' |
| N38-100 | — | 3/8" | 5-5/8" | 38" | 85' | 100' |
| N12-100 | — | 1/2" | 9" | 35" | 75' | 100' |
| N34-100 | — | 3/4" | 12-1/2" | 29" | 70' | 100' |

Fittings for Nylon Recoil Hoses*

|  NPT |  in | Rigid Fitting | Swivel Fitting | For Use with Bulk Hose |
|---|--|---------------|----------------|------------------------|
| 1/4" | 1/4" | RK090 | RK092 | N14-100 |
| 1/4" | 3/8" | — | RK114 | N38-10 |
| 3/8" | 3/8" | RK110 | RK112 | N38-100 |
| 1/2" | 1/2" | RK118 | RK119 | N12-100 |
| 3/4" | 3/4" | — | CSM-1212 | N34-100 |

*Order two fittings per hose.

P-Series Polyurethane Coiled Hoses

Features

- Superior elasticity and coil memory help keep the work environment clean and organized
- Outstanding flexibility increases operator comfort
- 25% lighter than rubber hose, reducing operator fatigue
- Abrasion and kink resistance increase lifetime
- Tight coil diameter allows easy entry into confined spaces
- Non-marring surface won't harm work pieces
- Broad chemical resistance makes hoses suitable for most environments
- Better than 80% working length extends your work space
- Straight tails on both ends eliminate workstation tangles
- Reusable MNPT fittings allow field retrofits
- Thread sealant on all fittings provides for leak-free joints

| Model |  |  |  |
|-------------------------------------|---|---|---|
| | NPT | in | ft |
| SWIVEL COUPLING AT ONE END | | | |
| P14-10 | 1/4" | 1/4" | 10' |
| P14-20 | 1/4" | 1/4" | 20' |
| P14-30 | 1/4" | 1/4" | 30' |
| P38-10 | 3/8" | 3/8" | 10' |
| P38-20 | 3/8" | 3/8" | 20' |
| P38-30 | 3/8" | 3/8" | 30' |
| SWIVEL COUPLING AT BOTH ENDS | | | |
| P12-10R | 1/2" | 1/2" | 10' |
| P12-20R | 1/2" | 1/2" | 20' |
| P12-30R | 1/2" | 1/2" | 30' |



Fitting Kits

| Model | Specifications |
|---------|--|
| P14-RMS | 1/4" NPT reusable male swivel fitting kit for 1/4" ID polyurethane hose |
| P38-RMS | 3/8" NPT reusable male swivel fitting kit for 3/8" ID polyurethane hose |
| P14-RMR | 1/4" NPT reusable male rigid fitting kit for 1/4" ID polyurethane hose |
| P38-RMR | 3/8" NPT reusable male rigid fitting kit for 3/8" ID polyurethane hose |
| P12-RFR | 1/2" NPT reusable female rigid fitting kit for 1/2" ID polyurethane hose |
| P12-RMS | 1/2" NPT reusable male rigid fitting kit for 1/2" ID polyurethane hose |



Swivels

Swivel Connectors



| Model | NPT | cfm* | Description |
|---------|------|--------|---|
| ASA-1/4 | 1/4" | 0 – 25 | Adjustable swivel connectors |
| ASC-1/4 | 1/4" | 0 – 33 | Non-marring composite swivel connectors |
| AS-3/8 | 3/8" | 0 – 45 | Standard swivel connectors |
| AS-1/2 | 1/2" | 0 – 65 | Standard swivel connectors |

Swivels and Adapters



| Model | NPT | Description |
|----------|---------------------------------------|-----------------|
| 636077 | 1/8" (M) x 1/8" (F) | Z swivel |
| 636086-B | 1/4" (M) x 1/4" (F) | Z swivel |
| 636087-B | 1/4" (M) x 1/4" (F) w/ filter element | Z swivel |
| 635106 | 1/2" (F) x 3/8" (M) | Z swivel |
| 636075 | 1/8" (M) x 1/8" (F) | Straight swivel |
| 636085 | 3/8" (M) x 3/8" (F) | Straight swivel |
| 635107 | 3/8" (M) x 1/2" (F) | Straight swivel |
| 635117 | 1/2" (M) x 1/2" (F) | Straight swivel |
| 635108 | 3/4" (M) x 3/4" (F) | Straight swivel |
| 3249 | 1/8" (F) x 1/8" (F) | Female adapter |
| 676 | 1/8" (M) x 1/8" (M) | Male adapter |

Swivel Inlets



| Model | Specifications |
|------------|--|
| HH1-VSW1/2 | 1/2" NPT x 1/2" hose barb (general-duty) |
| HH1-VSW7/8 | 7/8" – 24" x 1/2" hose barb (general-duty) |

Inlet Bushings with Screens



| Model | Description |
|------------|------------------------------------|
| ROBJ61-565 | 1/4" male pipe to 1/4" female pipe |

Air Hose Nipples

Female Pipe Thread



Male Pipe Thread



| Model | NPT | in (mm) |
|----------------------------|------|-----------|
| FEMALE PIPE THREADS | | |
| R00-147 | 3/8" | 3/8" (10) |
| R1-47 | 3/8" | 5/16" (8) |
| MALE PIPE THREADS | | |
| A01-46 | 3/8" | 1/2" (13) |
| A03-46 | 1/2" | 3/4" (19) |
| AL-387 | 3/8" | 5/16" (8) |
| CN-20-S | 2" | 2" (51) |
| D01-14 | 1/4" | 3/8" (10) |
| D02-455 | 1/2" | 1/2" (13) |
| IR30127 | 1/4" | 5/16" (8) |
| IR6225 | 3/8" | 3/8" (10) |
| IR78217 | 1/4" | 1/4" (6) |
| J3-581 | 3/4" | 3/4" (19) |
| P35-46 | 1" | 1" (25) |
| R00-146 | 1/8" | 3/8" (10) |

Hose Clamps



| Model | OD in (mm) | Description |
|--------------|---------------|---------------|
| MT1-AL34-3/8 | 3/8" (10 mm) | 1 braid rayon |
| MT1-AL34-1/2 | 1/2" (13 mm) | 1 braid rayon |
| MT1-AL34-3/4 | 3/4" (19 mm) | 1 braid rayon |
| MT1-AL34-1 | 1" (25 mm) | 1 braid rayon |

*At 90 psig inlet and 10 psig pressure drop.

Couplers & Plugs



Couplers & Plugs

Ingersoll Rand is your link to enhanced productivity through our complete selection of threaded and hose barb couplers and connectors. Available in multiple sizes and profiles, our couplers and plugs are durable and corrosion resistant, making them ideal for demanding shop environments.

ARO Series

Features

- Automatic, pin-type couplers
- Designed for one-way shutoff operation
- All couplers / plugs average flow cfm measured at 90 psi inlet and 10 psig pressure drop

Female Couplers



Male Couplers



Female Plugs



Male Plugs



| Model | Female NPT; Male NPT; Hose Stem ID | Body Size | | | cfm* |
|------------------------|--|-----------|------|-----|------|
| | | | in | NPT | |
| FEMALE COUPLERS | | | | | |
| 210 | Female NPT | 1/4" | 1/4" | 18 | |
| ARCF33 | Female NPT | 3/8" | 3/8" | 60 | |
| ARCH33 | Hose Stem ID | 3/8" | 3/8" | 60 | |
| MALE COUPLERS | | | | | |
| ARCH23 | Hose Stem ID | 1/4" | 3/8" | 18 | |
| ARCM22 | Male NPT | 1/4" | 1/4" | 18 | |
| ARCM23 | Male NPT | 1/4" | 3/8" | 18 | |
| ARCH33 | Hose Stem ID | 3/8" | 3/8" | 60 | |
| ARCM33 | Male NPT | 3/8" | 3/8" | 60 | |

| Model | Female NPT; Male NPT; Hose Stem ID | Body Size | | | cfm* |
|---------------------|--|-----------|-------|-----|------|
| | | | in | NPT | |
| FEMALE PLUGS | | | | | |
| ARPF22 | Female NPT | 1/4" | 1/4" | 18 | |
| ARPH22 | Hose Stem ID | 1/4" | 1/4" | 18 | |
| ARPH23 | Hose Stem ID | 1/4" | 3/8" | 18 | |
| ARPH25 | Hose Stem ID | 1/4" | 5/16" | 18 | |
| ARPF33 | Female NPT | 3/8" | 3/8" | 60 | |
| ARPH33 | Hose Stem ID | 3/8" | 3/8" | 60 | |
| MALE PLUGS | | | | | |
| ARPH22 | Hose Stem ID | 1/4" | 1/4" | 18 | |
| ARPH23 | Hose Stem ID | 1/4" | 3/8" | 18 | |
| ARPH25 | Hose Stem ID | 1/4" | 5/16" | 18 | |
| ARPM21 | Male NPT | 1/4" | 1/8" | 18 | |
| ARPM22 | Male NPT | 1/4" | 1/4" | 18 | |
| ARPH33 | Hose Stem ID | 3/8" | 3/8" | 60 | |
| ARPM32 | Male NPT | 3/8" | 1/4" | 60 | |
| ARPM33 | Male NPT | 3/8" | 3/8" | 60 | |

*At 90 psig inlet and 10 psig pressure drop.

MS Series Industrial Interchange

Features

- Economical automatic-type, one-way shutoff coupler
- Easy, push-to-connect use
- All couplers / plugs average flow cfm measured at 90 psi inlet and 10 psig pressure drop

Female Couplers



Male Couplers



Female Plugs



Male Plugs



| Model | Manual NPT; Automatic NPT; Hose Stem ID | Body Size |  | |
|------------------------|---|-----------|---|-----|
| | | | in | NPT |
| FEMALE COUPLERS | | | | |
| MSCF22 | Automatic NPT | 1/4" | 1/4" | 36 |
| MSCF23 | Automatic NPT | 1/4" | 3/8" | 36 |
| MSCH22 | Hose Stem ID | 1/4" | 1/4" | 36 |
| MSCH23 | Hose Stem ID | 1/4" | 3/8" | 36 |
| 420ATH | Manual NPT | 3/8" | 3/8" | 67 |
| 440ATH | Manual NPT | 3/8" | 1/2" | 67 |
| MSCH33 | Hose Stem ID | 3/8" | 3/8" | 67 |
| MSCF44 | Automatic NPT | 1/2" | 1/2" | 126 |
| MALE COUPLERS | | | | |
| MSCH22 | Hose Stem ID | 1/4" | 1/4" | 36 |
| MSCH23 | Hose Stem ID | 1/4" | 3/8" | 36 |
| MSCM22 | Automatic NPT | 1/4" | 1/4" | 36 |
| MSCM23 | Automatic NPT | 1/4" | 3/8" | 36 |
| HFCM32 | Automatic NPT | 3/8" | 1/4" | 67 |
| 430ATH | Manual NPT | 3/8" | 3/8" | 67 |
| MSCH33 | Hose Stem ID | 3/8" | 3/8" | 67 |
| MSCH44 | Hose Stem ID | 1/2" | 1/2" | 126 |

| Model | Female NPT; Male NPT; Hose Stem ID | Body Size |  | |
|---------------------|--|-----------|---|-----|
| | | | in | NPT |
| FEMALE PLUGS | | | | |
| MSPF21 | Female NPT | 1/4" | 1/8" | 36 |
| MSPF22 | Female NPT | 1/4" | 1/4" | 36 |
| MSPF23 | Female NPT | 1/4" | 3/8" | 36 |
| MSPH22 | Hose Stem ID | 1/4" | 1/4" | 36 |
| MSPH23 | Hose Stem ID | 1/4" | 3/8" | 36 |
| 45ATH | Female NPT | 3/8" | 1/2" | 67 |
| MSPF32 | Female NPT | 3/8" | 1/4" | 67 |
| MSPF33 | Female NPT | 3/8" | 3/8" | 67 |
| MSPH33 | Hose Stem ID | 3/8" | 3/8" | 67 |
| MSPH34 | Hose Stem ID | 3/8" | 1/2" | 67 |
| MSPF43 | Female NPT | 1/2" | 3/8" | 126 |
| MSPF44 | Female NPT | 1/2" | 1/2" | 126 |
| MSPH44 | Hose Stem ID | 1/2" | 1/2" | 126 |
| MALE PLUGS | | | | |
| MSPH22 | Hose Stem ID | 1/4" | 1/4" | 36 |
| MSPH23 | Hose Stem ID | 1/4" | 3/8" | 36 |
| MSPM21 | Male NPT | 1/4" | 1/8" | 36 |
| MSPM22 | Male NPT | 1/4" | 1/4" | 36 |
| MSPM23 | Male NPT | 1/4" | 3/8" | 36 |
| MSPH33 | Hose Stem ID | 3/8" | 3/8" | 67 |
| MSPH34 | Hose Stem ID | 3/8" | 1/2" | 67 |
| MSPM32 | Male NPT | 3/8" | 1/4" | 67 |
| MSPM34 | Male NPT | 3/8" | 1/2" | 67 |
| PRPM33 | Male NPT | 3/8" | 3/8" | 67 |
| MSPM43 | Male NPT | 1/2" | 3/8" | 126 |

*At 90 psig inlet and 10 psig pressure drop.

PR Series

Features

- Made of non-marring composite
- Safety coupler eliminates accidental disconnects
- Easy connect, disconnect
- Allows you to bleed hoses
- Shockproof and crush-resistant
- All couplers / plugs average flow cfm measured at 90 psi inlet and 10 psig pressure drop
- Carbonitride steel with anti-corrosion protection
- Teflon coating on all male threads

Female Couplers



Male Couplers



Hose Barb Couplers



Female Plugs



Male Plugs



Hose Barb Plugs



| Model | Body Size | | cfm* |
|---------------------------|-----------|------|------|
| | in | NPT | |
| FEMALE COUPLERS | | | |
| PRSGF22 | 1/4" | 1/4" | 32 |
| PRSGF23 | 1/4" | 3/8" | 32 |
| PRSGF33 | 3/8" | 3/8" | 64 |
| PRSGF34 | 3/8" | 1/2" | 64 |
| PRSGF43 | 1/2" | 3/8" | 147 |
| PRSGF44 | 1/2" | 1/2" | 147 |
| PRSGF46 | 1/2" | 3/4" | 147 |
| MALE COUPLERS | | | |
| PRSGM22 | 1/4" | 1/4" | 32 |
| PRSGM23 | 1/4" | 3/8" | 32 |
| PRSGM33 | 3/8" | 3/8" | 64 |
| PRSGM34 | 3/8" | 1/2" | 64 |
| HOSE BARB COUPLERS | | | |
| PRSGH22 | 1/4" | 1/4" | 32 |
| PRSGH23 | 3/8" | 1/4" | 32 |
| PRSGH33 | 3/8" | 3/8" | 64 |
| PRSGH34 | 1/2" | 3/8" | 64 |
| PRSGH44 | 1/2" | 1/2" | 147 |
| PRSGH45 | 5/8" | 1/2" | 147 |
| PRSGH46 | 3/4" | 1/2" | 147 |

| Model | Body Size | |
|------------------------|-----------|------|
| | in | NPT |
| FEMALE PLUGS | | |
| PRPF22 | 1/4" | 1/4" |
| PRPF23 | 1/4" | 3/8" |
| PRPF32 | 3/8" | 1/4" |
| PRPF33 | 3/8" | 3/8" |
| PRPF44 | 1/2" | 1/2" |
| MALE PLUGS | | |
| PRPM22 | 1/4" | 1/4" |
| PRPM23 | 1/4" | 3/8" |
| PRPM32 | 3/8" | 1/4" |
| PRPM33 | 3/8" | 3/8" |
| HOSE BARB PLUGS | | |
| PRPH22 | 1/4" | 1/4" |
| PRPH23 | 3/8" | 1/4" |
| PRPH33 | 3/8" | 3/8" |
| PRPH34 | 1/2" | 3/8" |
| PRPH44 | 1/2" | 1/2" |
| PRPH45 | 5/8" | 1/2" |
| PRPH46 | 3/4" | 1/2" |

Type "A" Series

Features

- Full-flow, non-shutoff couplers
- Designed for heavy-duty services
- Simple, sturdy, and able to withstand hard usage and abuse
- Couplers and plugs are compatible within the same Body Size

Hose Stem Couplers



Male NPT Couplers



Hose Stem Plugs



Male NPT Plugs



| Model | Body Size |  |  |
|---------------------------|-----------|---|---|
| HOSE STEM COUPLERS | | | |
| FH-8-1/2 | 5/8" | 1/2" Hose | 3/8" |
| FH-8-3/4 | 5/8" | 3/4" Hose | 9/16" |
| FH-8-1 | 1" | 1" Hose | 13/16" |
| MALE NPT COUPLERS | | | |
| FO-8-3/4 | 5/8" | 3/4" MNPT | 5/8" |
| FO-8-3/8 | 5/8" | 3/8" MNPT | 3/8" |
| FO-8-1/2 | 1" | 1" MNPT | 15/16" |

| Model | Body Size |  |  |
|------------------------|-----------|---|---|
| HOSE STEM PLUGS | | | |
| MH-8-1/2 | 5/8" | 1/2" Hose | 3/8" |
| MH-8-3/4 | 5/8" | 3/4" Hose | 5/8" |
| MH-8A-1 | 5/8" | 1" Hose | 13/16" |
| MALE NPT PLUGS | | | |
| MO-8-1/2 | 5/8" | 1/2" MNPT | 3/8" |
| MO-8-3/4 | 5/8" | 3/4" MNPT | 5/8" |
| MO-8A-1 | 1" | 1" MNPT | 13/16" |

O-Rings for Type "A" Couplers



| Model | NPT / Hose Stem End Size | Used in Model |
|--------|--------------------------|----------------------|
| BU-948 | 5/8" | FH Series, FO Series |
| R4-103 | 1" | FH Series, FO Series |

Safety Air Fuse Valves

Features

- Value designed to meet OSHA requirements
- Provides automatic pressure reduction if a hose is cut, ruptures, or accidentally uncouples, thus preventing the hose from whipping
- Constant bleed hole in the valve allows the flow check to automatically open, or reset, after repair to the hose is made
- Brass body and adapter; stainless steel spring; celcon valve
- All parts are corrosion-resistant
- Max temperature: 180° F
- Max allowable working pressure: 250 psig (17 bar)



| Model | Cut-off Flow Rate @ 90 psig |  |  |  |
|-------|-----------------------------|---|---|---|
| 170-6 | 112 - 128 | 3/4" | 1-1/4" (31.8) | 3" |
| 170-8 | 220 - 260 | 1" | 1-1/2" (38.1) | 3-1/8" |

Note: Turn off air supply before disconnecting.

Universal Hose Couplers

Features

- Full-flow, non-shutoff couplers
- Gaskets and clips are included with all universal couplers

Universal 3-way



| Model | Hose Size (in) |
|----------|----------------|
| UW-300-B | 1/4" to 1" |

Universal Male Pipe Threaded Ends



| Model | Hose Size (in) |
|----------|----------------|
| UM-37-M | 3/8" |
| UM-50-M | 1/2" |
| UM-75-M | 3/4" |
| UM-100-M | 1" |

Universal Dead End



| Model | Hose Size (in) |
|----------|----------------|
| UD-301-M | 1/4" to 1" |

Universal Hose Ends



| Model | Hose Size (in) |
|----------|----------------|
| UH-50-M | 1/2" |
| UH-75-M | 3/4" |
| UH-100-M | 1" |

Universal Female Pipe Threaded Ends



| Model | Hose Size (in) |
|----------|----------------|
| UF-50-M | 1/2" |
| UF-75-M | 3/4" |
| UF-100-M | 1" |

Universal Coupler Gasket

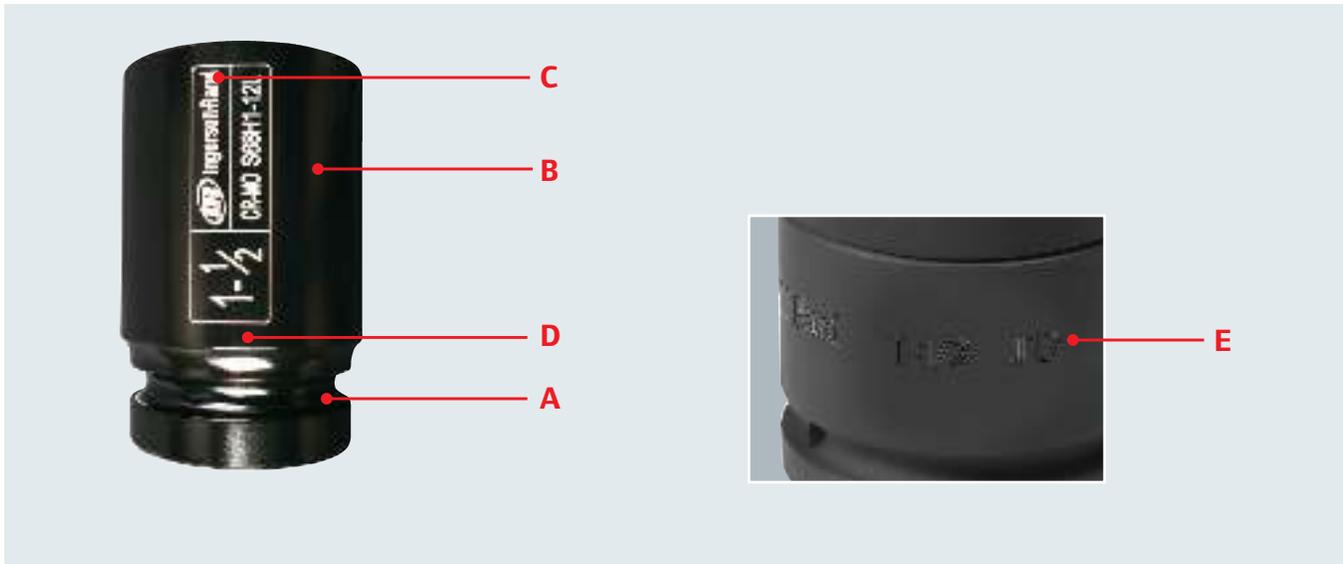


| Model | Specifications |
|--------|----------------------------------|
| UG-100 | For use in any universal coupler |

Impact Sockets



Features & Benefits



| Features | Benefits |
|--|---|
| A Impact-grade toughness | Designed for high-torque applications |
| B Chrome-molybdenum steel | Forged for high-strength durability |
| C Laser-etched size labeling | Enables easy size identification |
| D Electro-phosphate finish on 1/4" to 1" drive sizes | Projects a sleek look and high visibility |
| E Durable roll stamp feature on 1-1/2", 2-1/2", and #5 Spline drive sizes | Enables easy size identification in harsh work environments |
| Backed by a Lifetime Warranty | Provides peace of mind with proven reliability |

1/4" Square Drive Impact Sockets



Sets

| Part Number | # of Pieces | Description | Contents |
|-------------|-------------|--------------------------------|--|
| SK2C10 | 10 | 1/4" Drive combo set | 3/16", 1/4", 3/8", 1/2", 9/16", 4 mm, 6 mm, 9 mm, 12 mm, 14 mm |
| SK2H6 | 6 | 1/4" Drive standard set | 3/16", 1/4", 3/8", 7/16", 1/2", 9/16" |
| SK2M6 | 6 | 1/4" Drive metric set | 4 mm, 6 mm, 8 mm, 10 mm, 12 mm, 14 mm |
| SK2M12 | 12 | 1/4" Drive metric standard set | 6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 50 mm extension, 100 mm extension, 3/8" female to 1/4" male adapter |



SK2C10

Individuals



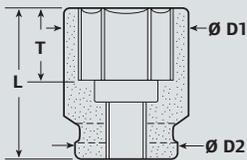
6-PT

STANDARD

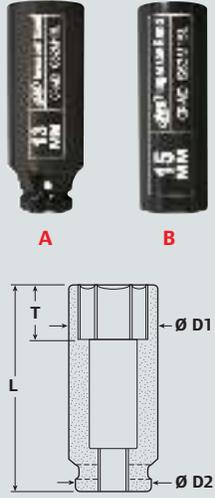
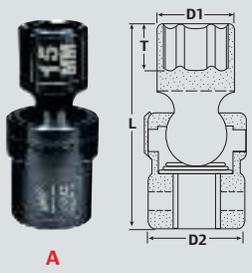


A

B



| Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type |
|-------------|-------------|-------------|-------------|-----------|-----------|------|
| S62H316 | 3/16" | 0.33 (8.5) | 0.51 (13) | 0.2 (5) | 0.91 (23) | A |
| S62H732 | 7/32" | 0.37 (9.5) | 0.51 (13) | 0.2 (5) | 0.91 (23) | A |
| S62H14 | 1/4" | 0.41 (10.3) | 0.51 (13) | 0.2 (5) | 0.91 (23) | A |
| S62H932 | 9/32" | 0.44 (11.3) | 0.51 (13) | 0.28 (7) | 0.91 (23) | A |
| S62H516 | 5/16" | 0.49 (12.5) | 0.51 (13) | 0.28 (7) | 0.91 (23) | A |
| S62H1132 | 11/32" | 0.55 (14) | 0.55 (14) | 0.28 (7) | 0.91 (23) | B |
| S62H38 | 3/8" | 0.63 (16) | 0.63 (16) | 0.31 (8) | 0.91 (23) | B |
| S62H716 | 7/16" | 0.67 (17) | 0.67 (17) | 0.31 (8) | 0.91 (23) | B |
| S62H12 | 1/2" | 0.75 (19) | 0.75 (19) | 0.31 (8) | 0.91 (23) | B |
| S62H916 | 9/16" | 0.79 (20) | 0.79 (20) | 0.31 (8) | 0.91 (23) | B |
| S62M4 | 4 mm | 0.3 (7.6) | 0.51 (13) | 0.2 (5) | 0.91 (23) | A |
| S62M45 | 4.5 mm | 0.32 (8.2) | 0.51 (13) | 0.2 (5) | 0.91 (23) | A |
| S62M5 | 5 mm | 0.35 (8.8) | 0.51 (13) | 0.2 (5) | 0.91 (23) | A |
| S62M55 | 5.5 mm | 0.37 (9.5) | 0.51 (13) | 0.2 (5) | 0.91 (23) | A |
| S62M6 | 6 mm | 0.39 (10) | 0.51 (13) | 0.28 (7) | 0.91 (23) | A |
| S62M7 | 7 mm | 0.44 (11.3) | 0.51 (13) | 0.28 (7) | 0.91 (23) | A |
| S62M8 | 8 mm | 0.49 (12.5) | 0.51 (13) | 0.28 (7) | 0.91 (23) | A |
| S62M9 | 9 mm | 0.55 (14) | 0.55 (14) | 0.28 (7) | 0.91 (23) | B |
| S62M10 | 10 mm | 0.57 (14.5) | 0.57 (14.5) | 0.28 (7) | 0.91 (23) | B |
| S62M11 | 11 mm | 0.67 (17) | 0.67 (17) | 0.31 (8) | 0.91 (23) | B |
| S62M12 | 12 mm | 0.71 (18) | 0.71 (18) | 0.31 (8) | 0.91 (23) | B |
| S62M13 | 13 mm | 0.75 (19) | 0.75 (19) | 0.31 (8) | 0.91 (23) | B |
| S62M14 | 14 mm | 0.79 (20) | 0.79 (20) | 0.31 (8) | 0.91 (23) | B |
| S62M15 | 15 mm | 0.83 (21) | 0.83 (21) | 0.31 (8) | 0.91 (23) | B |

| 6-PT | | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type |
|---|-----------|-------------|-------------|-------------|------------|-----------|-----------|------|
| DEEP | | | | | | | | |
|  | S62H316L | 3/16" | 0.33 (8.5) | 0.51 (13) | 0.2 (5) | 1.97 (50) | A | |
| | S62H732L | 7/32" | 0.37 (9.5) | 0.51 (13) | 0.2 (5) | 1.97 (50) | A | |
| | S62H14L | 1/4" | 0.41 (10.3) | 0.51 (13) | 0.2 (5) | 1.97 (50) | A | |
| | S62H932L | 9/32" | 0.44 (11.3) | 0.51 (13) | 0.28 (7) | 1.97 (50) | A | |
| | S62H516L | 5/16" | 0.49 (12.5) | 0.51 (13) | 0.28 (7) | 1.97 (50) | A | |
| | S62H1132L | 11/32" | 0.55 (14) | 0.55 (14) | 0.28 (7) | 1.97 (50) | B | |
| | S62H38L | 3/8" | 0.63 (16) | 0.63 (16) | 0.31 (8) | 1.97 (50) | B | |
| | S62H716L | 7/16" | 0.67 (17) | 0.67 (17) | 0.31 (8) | 1.97 (50) | B | |
| | S62H12L | 1/2" | 0.75 (19) | 0.75 (19) | 0.31 (8) | 1.97 (50) | B | |
| | S62H916L | 9/16" | 0.79 (20) | 0.79 (20) | 0.31 (8) | 1.97 (50) | B | |
| | S62M4L | 4 mm | 0.3 (7.6) | 0.51 (13) | 0.2 (5) | 1.97 (50) | A | |
| | S62M45L | 4.5 mm | 0.32 (8.2) | 0.51 (13) | 0.2 (5) | 1.97 (50) | A | |
| | S62M5L | 5 mm | 0.35 (8.8) | 0.51 (13) | 0.2 (5) | 1.97 (50) | A | |
| | S62M55L | 5.5 mm | .37 (9.5) | 0.51 (13) | 0.2 (5) | 1.97 (50) | A | |
| | S62M6L | 6 mm | 0.39 (10) | 0.51 (13) | 0.28 (7) | 1.97 (50) | A | |
| | S62M7L | 7 mm | 0.44 (11.3) | 0.51 (13) | 0.28 (7) | 1.97 (50) | A | |
| | S62M8L | 8 mm | 0.49 (12.5) | 0.51 (13) | 0.28 (7) | 1.97 (50) | A | |
| | S62M9L | 9 mm | 0.57 (14.5) | 0.57 (14.5) | 0.28 (7) | 1.97 (50) | B | |
| | S62M10L | 10 mm | 0.63 (16) | 0.63 (16) | 0.28 (7) | 1.97 (50) | B | |
| | S62M11L | 11 mm | 0.67 (17) | 0.67 (17) | 0.31 (8) | 1.97 (50) | B | |
| S62M12L | 12 mm | 0.67 (17) | 0.67 (17) | 0.31 (8) | 1.97 (50) | B | | |
| S62M13L | 13 mm | .75 (19) | 0.75 (19) | 0.31 (8) | 1.97 (50) | B | | |
| S62M14L | 14 mm | 0.79 (20) | 0.79 (20) | 0.31 (8) | 1.97 (50) | B | | |
| S62M15L | 15 mm | 0.83 (21) | 0.83 (21) | 0.31 (8) | 1.97 (50) | B | | |
| UNIVERSAL | | | | | | | | |
|  | S62H14U | 1/4" | 0.47 (12) | 0.63 (16) | 0.24 (6) | 1.73 (44) | A | |
| | S62H516U | 5/16" | 0.51 (13) | 0.63 (16) | 0.24 (6) | 1.73 (44) | A | |
| | S62H38U | 3/8" | 0.63 (16) | 0.63 (16) | 0.31 (8) | 1.73 (44) | A | |
| | S62H716U | 7/16" | 0.67 (17) | 0.63 (16) | 0.31 (8) | 1.73 (44) | A | |
| | S62H12U | 1/2" | 0.75 (19) | 0.63 (16) | 0.31 (8) | 1.89 (48) | A | |
| | S62H916U | 9/16" | 0.79 (20) | 0.63 (16) | 0.31 (8) | 1.89 (48) | A | |
| | S62M5U | 5 mm | 0.47 (12) | 0.63 (16) | 0.24 (6) | 1.73 (44) | A | |
| | S62M55U | 5.5 mm | 0.47 (12) | 0.71 (18) | 0.24 (6) | 1.73 (44) | A | |
| | S62M6U | 6 mm | 0.47 (12) | 0.71 (18) | 0.24 (6) | 1.73 (44) | A | |
| | S62M7U | 7 mm | 0.47 (12) | 0.71 (18) | 0.24 (6) | 1.73 (44) | A | |
| | S62M8U | 8 mm | 0.51 (13) | 0.71 (18) | 0.31 (8) | 1.73 (44) | A | |
| | S62M9U | 9 mm | 0.59 (15) | 0.71 (18) | 0.31 (8) | 1.73 (44) | A | |
| | S62M10U | 10 mm | 0.63 (16) | 0.71 (18) | 0.31 (8) | 1.73 (44) | A | |
| | S62M11U | 11 mm | 0.67 (17) | 0.71 (18) | 0.31 (8) | 1.73 (44) | A | |
| | S62M12U | 12 mm | 0.67 (17) | 0.71 (18) | 0.31 (8) | 1.89 (48) | A | |
| S62M13U | 13 mm | 0.75 (19) | 0.71 (18) | 0.31 (8) | 1.89 (48) | A | | |
| S62M14U | 14 mm | 0.79 (20) | 0.71 (18) | 0.31 (8) | 1.89 (48) | A | | |
| S62M15U | 15 mm | 0.83 (21) | 0.71 (18) | 0.31 (8) | 1.89 (48) | A | | |

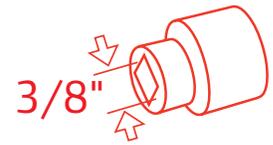
Accessories

| | Description | Output Size |
|--------------|----------------------------------|-------------|
| A2F3M | 1/4" female to 3/8" male adapter | 3/8" |
| J2 | Universal joint | 1/4" |
| E22H | 2" Extension | 1/4" |
| E24H | 4" Extension | 1/4" |
| E26H | 6" Extension | 1/4" |



Adapter

3/8" Square Drive Impact Sockets



Sets

| Part Number | # of Pieces | Description | Contents |
|-------------|-------------|-----------------------------------|---|
| SK3H8 | 8 | 3/8" Drive standard set | 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" |
| SK3H8L | 8 | 3/8" Drive deep standard set | 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" |
| SK3H7U | 7 | 3/8" Drive universal set | 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" |
| SK3M8 | 8 | 3/8" Drive metric set | 9 mm, 10 mm, 11 mm, 13 mm, 14 mm, 15 mm, 17 mm, 19 mm |
| SK3M8L | 8 | 3/8" Drive deep metric set | 9 mm, 10 mm, 11 mm, 13 mm, 14 mm, 15 mm, 17 mm, 19 mm |
| SK3M7U | 7 | 3/8" Universal metric set | 10 mm, 12 mm, 13 mm, 14 mm, 15 mm, 17 mm, 19 mm |
| SK3C8 | 8 | 3/8" Combo drive SAE & metric set | 3/8", 1/2", 5/8", 11/16", 10 mm, 13 mm, 16 mm, 17 mm |
| SK3M10 | 10 | 3/8" drive metric standard set | 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 19 mm |



SK3H8

Individuals

| 6-PT | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type |
|--------|-------------|-------------|---------------|---------------|--------------|--------------|------|
| | STANDARD | | | | | | |
| | S63H14 | 1/4" | 0.43 (11) | 0.75 (19) | 0.16 (4) | 1.1 (28) | A |
| | S63H516 | 5/16" | 0.49 (12.5) | 0.75 (19) | 0.28 (7) | 1.1 (28) | A |
| | S63H38 | 3/8" | 0.57 (14.5) | 0.75 (19) | 0.28 (7) | 1.1 (28) | A |
| | S63H716 | 7/16" | 0.67 (17) | 0.75 (19) | 0.28 (7) | 1.18 (30) | A |
| | S63H12 | 1/2" | 0.75 (19) | 0.75 (19) | 0.28 (7) | 1.18 (30) | B |
| | S63H916 | 9/16" | 0.79 (20) | 0.79 (20) | 0.28 (7) | 1.18 (30) | B |
| | S63H58 | 5/8" | 0.94 (24) | 0.94 (24) | 0.39 (10) | 1.18 (30) | B |
| | S63H1116 | 11/16" | 0.94 (24) | 0.94 (24) | 0.39 (10) | 1.26 (32) | B |
| | S63H34 | 3/4" | 1.02 (26) | 1.02 (26) | 0.39 (10) | 1.26 (32) | B |
| | S63H1316 | 13/16" | 1.18 (30) | 1.18 (30) | 0.51 (13) | 1.26 (32) | B |
| | S63H78 | 7/8" | 1.26 (32) | 1.26 (32) | 0.51 (13) | 1.26 (32) | B |
| | S63H1516 | 15/16" | 1.34 (34) | 1.34 (34) | 0.51 (13) | 1.26 (32) | B |
| | S63H1 | 1 mm | 1.34 (34) | 1.34 (34) | 0.51 (13) | 1.26 (32) | B |
| | S63M6 | 6 mm | 0.41 (10.5) | 0.75 (19) | 0.16 (4) | 1.1 (28) | A |
| S63M7 | 7 mm | 0.45 (11.5) | 0.75 (19) | 0.28 (7) | 1.1 (28) | A | |
| S63M8 | 8 mm | 0.49 (12.5) | 0.75 (19) | 0.28 (7) | 1.1 (28) | A | |
| S63M9 | 9 mm | 0.55 (14) | 0.75 (19) | 0.28 (7) | 1.1 (28) | A | |
| S63M10 | 10 mm | 0.59 (15) | 0.75 (19) | 0.28 (7) | 1.1 (28) | A | |



6-PT

| Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type |
|-------------|-------------|------------|------------|-----------|-----------|------|
|-------------|-------------|------------|------------|-----------|-----------|------|

STANDARD (cont'd)

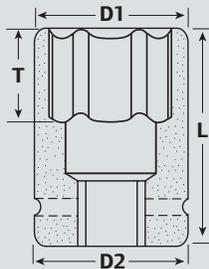
| | | | | | | |
|--------|-------|-----------|-----------|-----------|-----------|---|
| S63M11 | 11 mm | 0.67 (17) | 0.75 (19) | 0.28 (7) | 1.18 (30) | A |
| S63M12 | 12 mm | 0.71 (18) | 0.75 (19) | 0.28 (7) | 1.18 (30) | A |
| S63M13 | 13 mm | 0.75 (19) | 0.75 (19) | 0.28 (7) | 1.18 (30) | B |
| S63M14 | 14 mm | 0.79 (20) | 0.79 (20) | 0.28 (7) | 1.18 (30) | B |
| S63M15 | 15 mm | 0.87 (22) | 0.87 (22) | 0.39 (10) | 1.18 (30) | B |
| S63M16 | 16 mm | 0.94 (24) | 0.94 (24) | 0.39 (10) | 1.18 (30) | B |
| S63M17 | 17 mm | 0.94 (24) | 0.94 (24) | 0.39 (10) | 1.26 (32) | B |
| S63M18 | 18 mm | 1.02 (26) | 1.02 (26) | 0.51 (13) | 1.26 (32) | B |
| S63M19 | 19 mm | 1.02 (26) | 1.02 (26) | 0.51 (13) | 1.26 (32) | B |
| S63M20 | 20 mm | 1.1 (28) | 1.1 (28) | 0.51 (13) | 1.26 (32) | B |
| S63M21 | 21 mm | 1.18 (30) | 1.18 (30) | 0.51 (13) | 1.26 (32) | B |
| S63M22 | 22 mm | 1.26 (32) | 1.26 (32) | 0.51 (13) | 1.26 (32) | B |

DEEP

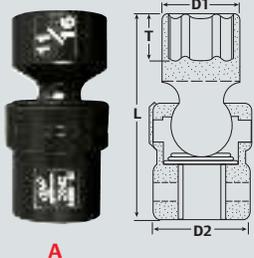
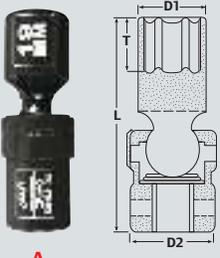


A

B



| | | | | | | |
|-----------|--------|-------------|-----------|-----------|-----------|---|
| S63H516L | 5/16" | 0.49 (12.5) | 0.75 (19) | 0.47 (12) | 2.48 (63) | A |
| S63H38L | 3/8" | 0.57 (14.5) | 0.75 (19) | 0.55 (14) | 2.48 (63) | A |
| S63H716L | 7/16" | 0.67 (17) | 0.75 (19) | 0.67 (17) | 2.48 (63) | A |
| S63H12L | 1/2" | 0.75 (19) | 0.75 (19) | 0.67 (17) | 2.48 (63) | B |
| S63H916L | 9/16" | 0.79 (20) | 0.79 (20) | 0.67 (17) | 2.48 (63) | B |
| S63H58L | 5/8" | 0.94 (24) | 0.94 (24) | 0.67 (17) | 2.48 (63) | B |
| S63H1116L | 11/16" | 0.94 (24) | 0.94 (24) | 0.67 (17) | 2.48 (63) | B |
| S63H34L | 3/4" | 1.02 (26) | 1.02 (26) | 0.75 (19) | 2.48 (63) | B |
| S63H1316L | 13/16" | 1.18 (30) | 1.18 (30) | 0.75 (19) | 2.48 (63) | B |
| S63H78L | 7/8" | 1.26 (32) | 1.26 (32) | 0.75 (19) | 2.48 (63) | B |
| S63H1516L | 15/16" | 1.34 (34) | 1.34 (34) | 0.83 (21) | 2.48 (63) | B |
| S63H1L | 1 mm | 1.42 (36) | 1.42 (36) | 0.83 (21) | 2.48 (63) | B |
| S63M7L | 7 mm | 0.45 (11.5) | 0.75 (19) | 0.43 (11) | 2.48 (63) | A |
| S63M8L | 8 mm | 0.49 (12.5) | 0.75 (19) | 0.47 (12) | 2.48 (63) | A |
| S63M9L | 9 mm | 0.55 (14) | 0.75 (19) | 0.55 (14) | 2.48 (63) | A |
| S63M10L | 10 mm | 0.59 (15) | 0.75 (19) | 0.55 (14) | 2.48 (63) | A |
| S63M11L | 11 mm | 0.67 (17) | 0.75 (19) | 0.67 (17) | 2.48 (63) | A |
| S63M12L | 12 mm | 0.71 (18) | 0.75 (19) | 0.67 (17) | 2.48 (63) | A |
| S63M13L | 13 mm | 0.75 (19) | 0.75 (19) | 0.67 (17) | 2.48 (63) | B |
| S63M14L | 14 mm | 0.79 (20) | 0.79 (20) | 0.67 (17) | 2.48 (63) | B |
| S63M15L | 15 mm | 0.87 (22) | 0.87 (22) | 0.75 (19) | 2.48 (63) | B |
| S63M16L | 16 mm | 0.94 (24) | 0.94 (24) | 0.75 (19) | 2.48 (63) | B |
| S63M17L | 17 mm | 0.94 (24) | 0.94 (24) | 0.75 (19) | 2.48 (63) | B |
| S63M18L | 18 mm | 1.02 (26) | 1.02 (26) | 0.75 (19) | 2.48 (63) | B |
| S63M19L | 19 mm | 1.02 (26) | 1.02 (26) | 0.83 (21) | 2.48 (63) | B |
| S63M20L | 20 mm | 1.1 (28) | 1.1 (28) | 0.83 (21) | 2.48 (63) | B |
| S63M21L | 21 mm | 1.18 (30) | 1.18 (30) | 0.83 (21) | 2.48 (63) | B |
| S63M22L | 22 mm | 1.26 (32) | 1.26 (32) | 0.83 (21) | 2.48 (63) | B |

| 6-PT | | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type |
|--|------------|-------------|-------------|---------------|---------------|--------------|--------------|------|
| UNIVERSAL | | | | | | | | |
|  <p>A</p> | S63H516U | 5/16" | 0.69 (17.5) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63H38U | 3/8" | 0.59 (15) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63H716U | 7/16" | 0.73 (18.5) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63H12U | 1/2" | 0.75 (19) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63H916U | 9/16" | 0.87 (22) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63H58U | 5/8" | 0.94 (24) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63H1116U | 11/16" | 0.98 (25) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63H34U | 3/4" | 1.1 (28) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63H1316U | 13/16" | 1.26 (32) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63H78U | 7/8" | 1.26 (32) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63H1516U | 15/16" | 1.34 (34) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63H1U | 1 mm | 1.42 (36) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63M8U | 8 mm | 0.69 (17.5) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63M9U | 9 mm | 0.69 (17.5) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63M10U | 10 mm | 0.65 (16.5) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63M11U | 11 mm | 0.75 (19) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63M12U | 12 mm | 0.75 (19) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63M13U | 13 mm | 0.79 (20) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63M14U | 14 mm | 0.87 (22) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63M15U | 15 mm | 0.87 (22) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63M16U | 16 mm | 1.02 (26) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63M17U | 17 mm | 1.02 (26) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| | S63M18U | 18 mm | 1.02 (26) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | |
| S63M19U | 19 mm | 1.1 (28) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | | |
| S63M20U | 20 mm | 1.26 (32) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | | |
| S63M21U | 21 mm | 1.26 (32) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | | |
| S63M22U | 22 mm | 1.26 (32) | 0.94 (24) | 0.47 (12) | 2.09 (53) | A | | |
| UNIVERSAL DEEP | | | | | | | | |
|  <p>A</p> | S63H516UL | 5/16" | 0.69 (17.5) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A | |
| | S63H38UL | 3/8" | 0.71 (18) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A | |
| | S63H716UL | 7/16" | 0.71 (18) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A | |
| | S63H12UL | 1/2" | 0.75 (19) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A | |
| | S63H916UL | 9/16" | 0.83 (21) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A | |
| | S63H58UL | 5/8" | 0.91 (23) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A | |
| | S63H1116UL | 11/16" | 0.98 (25) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A | |
| | S63H34UL | 3/4" | 1.06 (27) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A | |
| | S63H1316UL | 13/16" | 1.18 (30) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A | |
| | S63H78UL | 7/8" | 1.26 (32) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A | |
| S63M8UL | 8 mm | 0.69 (17.5) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A | | |
| S63M9UL | 9 mm | 0.69 (17.5) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A | | |
| S63M10UL | 10 mm | 0.71 (18) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A | | |

|  6-PT | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type |
|--|-------------|-------------|------------|------------|-----------|-----------|------|
| UNIVERSAL DEEP (cont'd) | | | | | | | |
| | S63M11UL | 11 mm | 0.71 (18) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A |
| | S63M12UL | 12 mm | 0.75 (19) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A |
| | S63M13UL | 13 mm | 0.75 (19) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A |
| | S63M14UL | 14 mm | 0.83 (21) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A |
| | S63M15UL | 15 mm | 0.87 (22) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A |
| | S63M16UL | 16 mm | 1.02 (26) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A |
| | S63M17UL | 17 mm | 0.98 (25) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A |
| | S63M18UL | 18 mm | 1.02 (26) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A |
| | S63M19UL | 19 mm | 1.06 (27) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A |
| | S63M20UL | 20 mm | 1.1 (28) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A |
| | S63M21UL | 21 mm | 1.18 (30) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A |
| | S63M22UL | 22 mm | 1.26 (32) | 0.94 (24) | 0.51 (13) | 3.03 (77) | A |

Accessories

| | Description | Output Size | Recommended Retaining Ring |
|--------------|----------------------------------|-------------|----------------------------|
| A3F2M | 3/8" female to 1/4" male adapter | 1/4" | RR10003 |
| A3F4M | 3/8" female to 1/2" male adapter | 1/2" | RR10003 |
| J3 | Universal joint | 3/8" | — |
| E33H | 3" Extension | 3/8" | RR10003 |
| E36H | 6" Extension | 3/8" | RR10003 |
| E312H | 12" Extension | 3/8" | RR10003 |



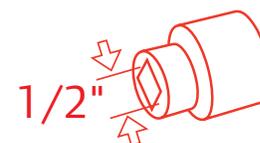
Adapter



Extension

1/2" Square Drive Impact Sockets

Sets



| Part Number | # of Pieces | Description | Contents |
|-------------|-------------|--|---|
| SK4M3L | 3 | 1/2 Drive deep metric set | 17 mm, 19 mm, 21 mm |
| SK4M5L | 5 | 1/2" Drive deep metric set | 17 mm, 19 mm, 21mm, 22 mm, 24 mm |
| SK4M8L | 8 | 1/2" Drive deep metric set | 11 mm, 13 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 21 mm |
| SK4H10L | 10 | 1/2" Drive deep standard set | 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1" |
| SK4C10L | 10 | 1/2" Drive deep combo set | 1/2", 9/16", 5/8", 3/4", 7/8", 13 mm, 16 mm, 17 mm, 19 mm, 21 mm |
| SK4LNR | 8 | 1/2" Drive metric lug nut removal set | 17 mm, 18.5 mm, 20 mm, 21.5 mm, 23 mm, 24.5 mm, 26 mm, 27.5 mm |
| SK4M18 | 18 | 1/2" Drive metric | Standard: 10 mm, 11 mm, 13mm, 14 mm, 17 mm, 19 mm, 21 mm, 22 mm, 24 mm Deep: 13 mm, 14 mm, 21 mm, 24 mm Deep Thin Wall: 17 mm, 19 mm, 21 mm |
| SK4H13 | 13 | 1/2" Drive standard set | 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-1/4" |
| SK4H13L | 13 | 1/2" Drive deep standard set | 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-1/4" |
| SK4H7U | 7 | 1/2" Drive universal set | 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8" |
| SK4M14 | 14 | 1/2" Drive metric standard set | 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 17 mm, 18 mm, 19 mm, 21 mm, 22 mm, 26 mm, 27 mm |
| SK4M4L | 4 | 1/2" Drive deep metric axle nut kit | 30 mm, 32 mm, 34 mm, 36 mm |
| SK4M7U | 7 | 1/2" Drive universal metric set | 13 mm, 14 mm, 15 mm, 17 mm, 19 mm, 21 mm, 22 mm |
| SK4C3F | 3 | 1/2" Drive lug nut service set (flip socket set) | 3/4" x 13/16", 19" x 21", 3" Extension |
| SK34C86 | 86 | 3/8" & 1/2" Combo standard & deep socket set | Includes all sockets in SK3H8, SK3H8L, SK3M8, SK3M8L, SK4H13, SK4H13L, SK4M14, & SK4M14L |

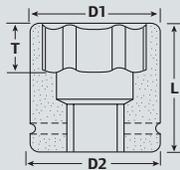


SK4H13

Individuals

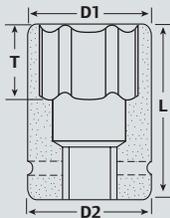


STANDARD



| Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type |
|-------------|-------------|---------------|---------------|--------------|--------------|------|
| S64H1516 | 15/16" | 1.34 (34) | 1.34 (34) | 0.63 (16) | 1.73 (44) | B |
| S64H38 | 3/8" | 0.63 (16) | 0.87 (22) | 0.43 (11) | 1.5 (38) | A |
| S64H716 | 7/16" | 0.71 (18) | 0.87 (22) | 0.43 (11) | 1.5 (38) | A |
| S64H12 | 1/2" | 0.77 (19.5) | 0.87 (22) | 0.43 (11) | 1.5 (38) | A |
| S64H916 | 9/16" | 0.85 (21.5) | 0.94 (24) | 0.43 (11) | 1.5 (38) | A |
| S64H58 | 5/8" | 0.94 (24) | 0.94 (24) | 0.43 (11) | 1.5 (38) | B |
| S64H1116 | 11/16" | 1.02 (26) | 1.02 (26) | 0.43 (11) | 1.5 (38) | B |
| S64H34 | 3/4" | 1.1 (28) | 1.1 (28) | 0.63 (16) | 1.57 (40) | B |
| S64H1316 | 13/16" | 1.18 (30) | 1.18 (30) | 0.63 (16) | 1.57 (40) | B |
| S64H78 | 7/8" | 1.26 (32) | 1.26 (32) | 0.63 (16) | 1.65 (42) | B |
| S64H1516 | 15/16" | 1.34 (34) | 1.34 (34) | 0.63 (16) | 1.73 (44) | B |
| S64H1 | 1" | 1.42 (36) | 1.42 (36) | 0.71 (18) | 1.73 (44) | B |
| S64H1-116 | 1-1/16" | 1.5 (38) | 1.5 (38) | 0.71 (18) | 1.81 (46) | B |
| S64H1-18 | 1-1/8" | 1.57 (40) | 1.5 (38) | 0.71 (18) | 1.81 (46) | C |
| S64H1-316 | 1-3/16" | 1.65 (42) | 1.5 (38) | 0.71 (18) | 1.81 (46) | C |
| S64H1-14 | 1-1/4" | 1.73 (44) | 1.5 (38) | 0.79 (20) | 1.81 (46) | C |
| S64H1-516 | 1-5/16" | 1.85 (47) | 1.5 (38) | 0.79 (20) | 1.81 (46) | C |
| S64H1-38 | 1-3/8" | 1.97 (50) | 1.5 (38) | 0.79 (20) | 1.81 (46) | C |
| S64H1-716 | 1-7/16" | 2.01 (51) | 1.5 (38) | 0.79 (20) | 1.81 (46) | C |
| S64H1-12 | 1-1/2" | 2.09 (53) | 1.5 (38) | 0.87 (22) | 1.81 (46) | C |
| S64H1-916 | 1-9/16" | 2.17 (55) | 1.73 (44) | 0.87 (22) | 2.36 (60) | C |
| S64H1-58 | 1-5/8" | 2.28 (58) | 1.73 (44) | 0.87 (22) | 2.36 (60) | C |
| S64H1-1116 | 1-11/16" | 2.4 (61) | 1.73 (44) | 0.94 (24) | 2.36 (60) | C |
| S64H1-34 | 1-3/4" | 2.48 (63) | 1.73 (44) | 0.94 (24) | 2.36 (60) | C |
| S64H1-1316 | 1-13/16" | 2.56 (65) | 1.73 (44) | 0.94 (24) | 2.36 (60) | C |
| S64H1-78 | 1-7/8" | 2.6 (66) | 1.73 (44) | 0.94 (24) | 2.36 (60) | C |
| S64H1-1516 | 1-15/16" | 2.68 (68) | 1.73 (44) | 0.94 (24) | 2.36 (60) | C |
| S64H2 | 2" | 2.76 (70) | 2.05 (52) | 0.94 (24) | 2.36 (60) | C |
| S64H2-116 | 2-1/16" | 2.83 (72) | 2.05 (52) | 0.94 (24) | 2.36 (60) | C |
| S64H2-18 | 2-1/8" | 2.99 (76) | 2.05 (52) | 1.06 (27) | 2.56 (65) | C |
| S64H2-316 | 2-3/16" | 3.03 (77) | 2.05 (52) | 1.06 (27) | 2.56 (65) | C |
| S64H2-14 | 2-1/4" | 3.15 (80) | 2.05 (52) | 1.06 (27) | 2.56 (65) | C |
| S64M8 | 8 mm | 0.57 (14.5) | 0.87 (22) | 0.35 (9) | 1.5 (38) | A |
| S64M9 | 9 mm | 0.57 (14.5) | 0.87 (22) | 0.43 (11) | 1.5 (38) | A |
| S64M10 | 10 mm | 0.67 (17) | 0.87 (22) | 0.43 (11) | 1.5 (38) | A |
| S64M11 | 11 mm | 0.67 (17) | 0.87 (22) | 0.43 (11) | 1.5 (38) | A |
| S64M12 | 12 mm | 0.71 (18) | 0.87 (22) | 0.43 (11) | 1.5 (38) | A |
| S64M13 | 13 mm | 0.79 (20) | 0.87 (22) | 0.43 (11) | 1.5 (38) | A |
| S64M14 | 14 mm | 0.87 (22) | 0.94 (24) | 0.43 (11) | 1.5 (38) | A |
| S64M15 | 15 mm | 0.94 (24) | 0.94 (24) | 0.43 (11) | 1.5 (38) | B |

| 6-PT | | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type |
|--------------------------|------------|-------------|-------------|------------|-------------|-----------|-----------|------|
| STANDARD (cont'd) | | | | | | | | |
| | S64M16 | 16 mm | 0.94 (24) | 0.94 (24) | 0.43 (11) | 1.5 (38) | B | |
| | S64M17 | 17 mm | 1.02 (26) | 1.02 (26) | 0.43 (11) | 1.5 (38) | B | |
| | S64M18 | 18 mm | 1.02 (26) | 1.02 (26) | 0.43 (11) | 1.5 (38) | B | |
| | S64M19 | 19 mm | 1.1 (28) | 1.1 (28) | 0.51 (13) | 1.57 (40) | B | |
| | S64M20 | 20 mm | 1.18 (30) | 1.18 (30) | 0.51 (13) | 1.57 (40) | B | |
| | S64M21 | 21 mm | 1.18 (30) | 1.18 (30) | 0.51 (13) | 1.57 (40) | B | |
| | S64M22 | 22 mm | 1.26 (32) | 1.26 (32) | 0.51 (13) | 1.65 (42) | B | |
| | S64M23 | 23 mm | 1.26 (32) | 1.26 (32) | 0.51 (13) | 1.65 (42) | B | |
| | S64M24 | 24 mm | 1.34 (34) | 1.34 (34) | 0.59 (15) | 1.73 (44) | B | |
| | S64M25 | 25 mm | 1.38 (35) | 1.38 (35) | 0.59 (15) | 1.73 (44) | B | |
| | S64M26 | 26 mm | 1.42 (36) | 1.42 (36) | 0.59 (15) | 1.73 (44) | B | |
| | S64M27 | 27 mm | 1.5 (38) | 1.5 (38) | 0.72 (18.3) | 1.81 (46) | B | |
| | S64M28 | 28 mm | 1.57 (40) | 1.5 (38) | 0.72 (18.3) | 1.81 (46) | C | |
| | S64M29 | 29 mm | 1.57 (40) | 1.5 (38) | 0.72 (18.3) | 1.81 (46) | C | |
| | S64M30 | 30 mm | 1.65 (42) | 1.5 (38) | 0.72 (18.3) | 1.81 (46) | C | |
| | S64M32 | 32 mm | 1.73 (44) | 1.5 (38) | 0.72 (18.3) | 1.81 (46) | C | |
| | S64M33 | 33 mm | 1.77 (45) | 1.5 (38) | 0.79 (20) | 1.81 (46) | C | |
| | S64M34 | 34 mm | 1.81 (46) | 1.5 (38) | 0.79 (20) | 1.81 (46) | C | |
| | S64M35 | 35 mm | 1.89 (48) | 1.5 (38) | 0.79 (20) | 1.81 (46) | C | |
| | S64M36 | 36 mm | 1.97 (50) | 1.5 (38) | 0.79 (20) | 1.97 (50) | C | |
| DEEP | | | | | | | | |
| | S64H516L | 5/16" | 0.55 (14) | 0.87 (22) | 0.39 (10) | 3.07 (78) | A | |
| | S64H38L | 3/8" | 0.67 (17) | 0.87 (22) | 0.55 (14) | 3.07 (78) | A | |
| | S64H716L | 7/16" | 0.71 (18) | 0.87 (22) | 0.55 (14) | 3.07 (78) | A | |
| | S64H12L | 1/2" | 0.79 (20) | 0.87 (22) | 0.55 (14) | 3.07 (78) | A | |
| | S64H916L | 9/16" | 0.87 (22) | 0.94 (24) | 0.55 (14) | 3.07 (78) | A | |
| | S64H58L | 5/8" | 0.94 (24) | 0.94 (24) | 0.55 (14) | 3.07 (78) | B | |
| | S64H1116L | 11/16" | 1.02 (26) | 1.02 (26) | 0.67 (17) | 3.07 (78) | B | |
| | S64H34L | 3/4" | 1.1 (28) | 1.1 (28) | 0.67 (17) | 3.07 (78) | B | |
| | S64H1316L | 13/16" | 1.18 (30) | 1.18 (30) | 0.67 (17) | 3.07 (78) | B | |
| | S64H78L | 7/8" | 1.26 (32) | 1.26 (32) | 0.75 (19) | 3.07 (78) | B | |
| | S64H1516L | 15/16" | 1.34 (34) | 1.34 (34) | 0.75 (19) | 3.07 (78) | B | |
| | S64H1L | 1" | 1.42 (36) | 1.42 (36) | 0.75 (19) | 3.07 (78) | B | |
| | S64H1-116L | 1-1/16" | 1.5 (38) | 1.5 (38) | 0.75 (19) | 3.07 (78) | B | |
| | S64H1-18L | 1-1/8" | 1.57 (40) | 1.5 (38) | 0.75 (19) | 3.07 (78) | C | |
| | S64H1-316L | 1-3/16" | 1.65 (42) | 1.5 (38) | 0.75 (19) | 3.07 (78) | C | |
| | S64H1-14L | 1-1/4" | 1.73 (44) | 1.5 (38) | 1.18 (30) | 3.07 (78) | C | |
| | S64H1-516L | 1-5/16" | 1.85 (47) | 1.5 (38) | 1.18 (30) | 3.15 (80) | C | |
| | S64H1-38L | 1-3/8" | 1.97 (50) | 1.5 (38) | 1.18 (30) | 3.15 (80) | C | |
| | S64H1-716L | 1-7/16" | 2.01 (51) | 1.5 (38) | 1.18 (30) | 3.15 (80) | C | |

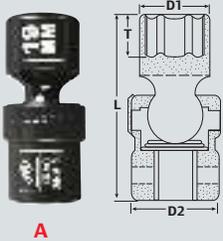
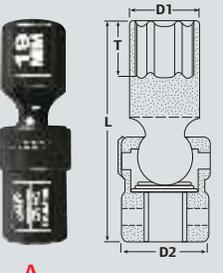




6-PT

DEEP (cont'd)

| Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type |
|-------------|-------------|---------------|---------------|--------------|--------------|------|
| S64H1-12L | 1-1/2" | 2.09 (53) | 1.5 (38) | 1.18 (30) | 3.15 (80) | C |
| S64H1-916L | 1-9/16" | 2.17 (55) | 1.73 (44) | 1.3 (33) | 3.54 (90) | C |
| S64H1-58L | 1-5/8" | 2.28 (58) | 1.73 (44) | 1.3 (33) | 3.54 (90) | C |
| S64H1-1116L | 1-11/16" | 2.4 (61) | 1.73 (44) | 1.3 (33) | 3.54 (90) | C |
| S64H1-34L | 1-3/4" | 2.48 (63) | 1.73 (44) | 1.3 (33) | 3.54 (90) | C |
| S64H1-1316L | 1-13/16" | 2.56 (65) | 1.73 (44) | 1.38 (35) | 3.54 (90) | C |
| S64H1-78L | 1-7/8" | 2.6 (66) | 1.73 (44) | 1.38 (35) | 3.54 (90) | C |
| S64H1-1516L | 1-15/16" | 2.68 (68) | 1.73 (44) | 1.38 (35) | 3.54 (90) | C |
| S64H2L | 2" | 2.76 (70) | 2.05 (52) | 1.38 (35) | 3.54 (90) | C |
| S64H2-116 | 2-1/16" | 2.83 (72) | 2.05 (52) | 1.38 (35) | 3.54 (90) | C |
| S64H2-18L | 2-1/8" | 2.99 (76) | 2.05 (52) | 1.38 (35) | 3.54 (90) | C |
| S64H2-316L | 2-3/16" | 3.03 (77) | 2.05 (52) | 1.38 (35) | 3.54 (90) | C |
| S64H2-14L | 2-1/4" | 3.15 (80) | 2.05 (52) | 1.38 (35) | 3.54 (90) | C |
| S64M8L | 8 mm | 0.55 (14) | 0.87 (22) | 0.43 (11) | 3.07 (78) | A |
| S64M9L | 9 mm | 0.59 (15) | 0.87 (22) | 0.55 (14) | 3.07 (78) | A |
| S64M10L | 10 mm | 0.67 (17) | 0.87 (22) | 0.55 (14) | 3.07 (78) | A |
| S64M11L | 11 mm | 0.71 (18) | 0.87 (22) | 0.55 (14) | 3.07 (78) | A |
| S64M12L | 12 mm | 0.75 (19) | 0.87 (22) | 0.55 (14) | 3.07 (78) | A |
| S64M13L | 13 mm | 0.79 (20) | 0.94 (24) | 0.55 (14) | 3.07 (78) | A |
| S64M14L | 14 mm | 0.87 (22) | 0.94 (24) | 0.75 (19) | 3.07 (78) | A |
| S64M15L | 15 mm | 0.94 (24) | 0.94 (24) | 0.75 (19) | 3.07 (78) | B |
| S64M16L | 16 mm | 0.94 (24) | 0.94 (24) | 0.75 (19) | 3.07 (78) | B |
| S64M17L | 17 mm | 1.02 (26) | 1.02 (26) | 0.75 (19) | 3.07 (78) | B |
| S64M18L | 18 mm | 1.02 (26) | 1.02 (26) | 0.75 (19) | 3.07 (78) | B |
| S64M19L | 19 mm | 1.1 (28) | 1.1 (28) | 0.75 (19) | 3.07 (78) | B |
| S64M20L | 20 mm | 1.18 (30) | 1.18 (30) | 0.75 (19) | 3.07 (78) | B |
| S64M21L | 21 mm | 1.18 (30) | 1.18 (30) | 0.83 (21) | 3.07 (78) | B |
| S64M22L | 22 mm | 1.26 (32) | 1.26 (32) | 0.83 (21) | 3.07 (78) | B |
| S64M23L | 23 mm | 1.26 (32) | 1.26 (32) | 0.83 (21) | 3.07 (78) | B |
| S64M24L | 24 mm | 1.34 (34) | 1.34 (34) | 0.83 (21) | 3.07 (78) | B |
| S64M25L | 25 mm | 1.38 (35) | 1.38 (35) | 0.83 (21) | 3.07 (78) | B |
| S64M26L | 26 mm | 1.42 (36) | 1.42 (36) | 0.83 (21) | 3.07 (78) | B |
| S64M27L | 27 mm | 1.5 (38) | 1.5 (38) | 0.83 (21) | 3.07 (78) | B |
| S64M28L | 28 mm | 1.57 (40) | 1.5 (38) | 0.94 (24) | 3.07 (78) | C |
| S64M29L | 29 mm | 1.57 (40) | 1.5 (38) | 0.94 (24) | 3.07 (78) | C |
| S64M30L | 30 mm | 1.65 (42) | 1.5 (38) | 0.94 (24) | 3.07 (78) | C |
| S64M32L | 32 mm | 1.73 (44) | 1.5 (38) | 0.94 (24) | 3.07 (78) | C |
| S64M33L | 33 mm | 1.77 (45) | 1.5 (38) | 0.94 (24) | 3.07 (78) | C |
| S64M34L | 34 mm | 1.89 (48) | 1.5 (38) | 0.94 (24) | 3.07 (78) | C |
| S64M35L | 35 mm | 1.89 (48) | 1.5 (38) | 0.94 (24) | 3.07 (78) | C |
| S64M36L | 36 mm | 1.97 (50) | 1.5 (38) | 0.94 (24) | 3.07 (78) | C |

| 6-PT | | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type |
|---|------------|-------------|-------------|------------|------------|-----------|-----------|------|
| UNIVERSAL | | | | | | | | |
|  | S64H516U | 5/16" | 0.75 (19) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64H38U | 3/8" | 0.75 (19) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64H716U | 7/16" | 0.75 (19) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64H12U | 1/2" | 0.75 (19) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64H916U | 9/16" | 0.87 (22) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64H58U | 5/8" | 0.94 (24) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64H1116U | 11/16" | 1.02 (26) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64H34U | 3/4" | 1.1 (28) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64H1316U | 13/16" | 1.18 (30) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64H78U | 7/8" | 1.26 (32) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64H1516U | 15/16" | 1.42 (36) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64M10U | 10 mm | 0.75 (19) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64M11U | 11 mm | 0.75 (19) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64M12U | 12 mm | 0.75 (19) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64M13U | 13 mm | 0.87 (22) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64M14U | 14 mm | 0.87 (22) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64M15U | 15 mm | 0.91 (23) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64M16U | 16 mm | 1.02 (26) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64M17U | 17 mm | 1.02 (26) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64M18U | 18 mm | 1.02 (26) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64M19U | 19 mm | 1.1 (28) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64M20U | 20 mm | 1.18 (30) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64M21U | 21 mm | 1.18 (30) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| | S64M22U | 22 mm | 1.26 (32) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | |
| S64M23U | 23 mm | 1.26 (32) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | | |
| S64M24U | 24 mm | 1.34 (34) | 1.1 (28) | 0.51 (13) | 2.6 (66) | A | | |
| UNIVERSAL DEEP | | | | | | | | |
|  | S64H38UL | 3/8" | 0.87 (22) | 1.1 (28) | 0.55 (14) | 3.54 (90) | A | |
| | S64H716UL | 7/16" | 0.87 (22) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A | |
| | S64H12UL | 1/2" | 0.87 (22) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A | |
| | S64H916UL | 9/16" | 0.87 (22) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A | |
| | S64H58UL | 5/8" | 0.94 (24) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A | |
| | S64H1116UL | 11/16" | 1.02 (26) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A | |
| | S64H34UL | 3/4" | 1.1 (28) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A | |
| | S64H1316UL | 13/16" | 1.18 (30) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A | |
| | S64H78UL | 7/8" | 1.26 (32) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A | |
| | S64H1516UL | 15/16" | 1.34 (34) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A | |
| | S64M10UL | 10 mm | 0.87 (22) | 1.1 (28) | 0.55 (14) | 3.54 (90) | A | |
| | S64M11UL | 11 mm | 0.87 (22) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A | |
| | S64M12UL | 12 mm | 0.87 (22) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A | |
| | S64M13UL | 13 mm | 0.87 (22) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A | |

|  6-PT | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type |
|--|-------------|-------------|------------|------------|-----------|-----------|------|
| UNIVERSAL DEEP (cont'd) | | | | | | | |
| | S64M14UL | 14 mm | 0.87 (22) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A |
| | S64M15UL | 15 mm | 0.94 (24) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A |
| | S64M16UL | 16 mm | 0.94 (24) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A |
| | S64M17UL | 17 mm | 1.02 (26) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A |
| | S64M18UL | 18 mm | 1.02 (26) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A |
| | S64M19UL | 19 mm | 1.1 (28) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A |
| | S64M20UL | 20 mm | 1.18 (30) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A |
| | S64M21UL | 21 mm | 1.18 (30) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A |
| | S64M22UL | 22 mm | 1.26 (32) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A |
| | S64M23UL | 23 mm | 1.26 (32) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A |
| | S64M24UL | 24 mm | 1.34 (34) | 1.1 (28) | 0.67 (17) | 3.54 (90) | A |

Accessories

| | Description | Output Size | Recommended Retaining Ring |
|--------------|----------------------------------|-------------|----------------------------|
| A4F3M | 1/2" female to 3/8" male adapter | 3/8" | RR10006 |
| A4F6M | 1/2" female to 3/4" male adapter | 3/4" | RR10008 |
| J4 | Universal joint | 1/2" | — |
| E43H | 3" Extension | 1/2" | RR10006 |
| E45H | 5" Extension | 1/2" | RR10006 |
| E47H | 7" Extension | 1/2" | RR10006 |
| E410H | 10" Extension | 1/2" | RR10006 |
| E418H | 18" Extension | 1/2" | RR10006 |
| E424H | 24" Extension | 1/2" | RR10006 |
| E436H | 36" Extension | 1/2" | RR10006 |



Adapter



Extension



Extension

3/4" Square Drive Impact Sockets

Sets

| Part Number | # of Pieces | Description | Contents |
|-------------|-------------|------------------------------|---|
| SK6H8 | 8 | 3/4" Drive standard set | 1", 1-1/16", 1-1/8", 1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2" |
| SK6H8L | 8 | 3/4" Drive deep standard set | 1", 1-1/16", 1-1/8", 1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2" |
| SK6M6L | 6 | 3/4" Drive deep metric set | 24 mm, 27 mm, 30 mm, 32 mm, 33 mm, 36 mm |



SK6H8

Individuals

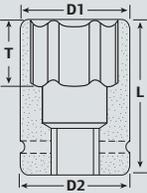
| 6-PT | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|------------|-------------|-------------|-------------|-------------|-----------|-----------|----------|----------------------------|
| | STANDARD | | | | | | | |
| | S66H12 | 1/2" | 0.91 (23) | 1.63 (41.4) | 0.51 (13) | 2.01 (51) | A | RR10010 |
| | S66H916 | 9/16" | 1 (25.5) | 1.63 (41.4) | 0.51 (13) | 2.01 (51) | A | RR10010 |
| | S66H58 | 5/8" | 1.1 (28) | 1.63 (41.4) | 0.51 (13) | 2.01 (51) | A | RR10010 |
| | S66H1116 | 11/16" | 1.16 (29.5) | 1.63 (41.4) | 0.51 (13) | 2.01 (51) | A | RR10010 |
| | S66H34 | 3/4" | 1.26 (32) | 1.63 (41.4) | 0.51 (13) | 2.01 (51) | A | RR10010 |
| | S66H1316 | 13/16" | 1.38 (35) | 1.63 (41.4) | 0.51 (13) | 2.01 (51) | A | RR10010 |
| | S66H78 | 7/8" | 1.42 (36) | 1.63 (41.4) | 0.51 (13) | 2.01 (51) | A | RR10010 |
| | S66H1516 | 15/16" | 1.52 (38.5) | 1.63 (41.4) | 0.51 (13) | 2.01 (51) | A | RR10010 |
| | S66H1 | 1" | 1.57 (40) | 1.63 (41.4) | 0.51 (13) | 2.09 (53) | A | RR10010 |
| | S66H1-116 | 1-1/16" | 1.67 (42.5) | 1.73 (44) | 0.51 (13) | 2.09 (53) | A | RR10034S |
| | S66H1-18 | 1-1/8" | 1.73 (44) | 1.73 (44) | 0.63 (16) | 2.09 (53) | B | RR10034S |
| | S66H1-316 | 1-3/16" | 1.81 (46) | 1.73 (44) | 0.63 (16) | 2.09 (53) | C | RR10034S |
| | S66H1-14 | 1-1/4" | 1.89 (48) | 1.73 (44) | 0.63 (16) | 2.24 (57) | C | RR10034S |
| | S66H1-516 | 1-5/16" | 1.97 (50) | 1.73 (44) | 0.75 (19) | 2.24 (57) | C | RR10034S |
| | 66H1-38 | 1-3/8" | 2.07 (52.5) | 1.73 (44) | 0.75 (19) | 2.24 (57) | C | RR10034S |
| | S66H1-716 | 1-7/16" | 2.11 (53.5) | 1.73 (44) | 0.75 (19) | 2.24 (57) | C | RR10034S |
| | S66H1-12 | 1-1/2" | 2.2 (56) | 1.73 (44) | 0.87 (22) | 2.24 (57) | C | RR10034S |
| | S66H1-916 | 1-9/16" | 2.3 (58.5) | 1.73 (44) | 0.87 (22) | 2.28 (58) | C | RR10034S |
| | S66H1-58 | 1-5/8" | 2.36 (60) | 1.73 (44) | 0.87 (22) | 2.28 (58) | C | RR10034S |
| | S66H1-1116 | 1-11/16" | 2.5 (63.5) | 1.73 (44) | 1.02 (26) | 2.44 (62) | C | RR10034S |
| S66H1-34 | 1-3/4" | 2.54 (64.5) | 1.73 (44) | 1.02 (26) | 2.44 (62) | C | RR10034S | |
| S66H1-1316 | 1-13/16" | 2.6 (66) | 1.73 (44) | 1.02 (26) | 2.44 (62) | C | RR10034S | |



6-PT

STANDARD (cont'd)

| Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|-------------|-------------|-------------|------------|-----------|-----------|------|----------------------------|
| S66H1-78 | 1-7/8" | 2.68 (68) | 1.73 (44) | 1.06 (27) | 2.68 (68) | C | RR10034S |
| S66H1-1516 | 1-15/16" | 2.76 (70) | 1.73 (44) | 1.06 (27) | 2.68 (68) | C | RR10034S |
| S66H2 | 2" | 2.8 (71) | 1.73 (44) | 1.06 (27) | 2.68 (68) | C | RR10034S |
| S66H2-116 | 2-1/16" | 2.91 (74) | 2.13 (54) | 1.22 (31) | 2.8 (71) | C | RR10015S |
| SS6H2-18 | 2-1/8" | 2.99 (76) | 2.13 (54) | 1.22 (31) | 2.8 (71) | C | RR10015S |
| S66H2-316 | 2-3/16" | 3.07 (78) | 2.13 (54) | 1.22 (31) | 2.8 (71) | C | RR10015S |
| S66H2-14 | 2-1/4" | 3.15 (80) | 2.13 (54) | 1.3 (33) | 2.87 (73) | C | RR10015S |
| S66H2-516 | 2-5/16" | 3.21 (81.5) | 2.13 (54) | 1.3 (33) | 2.87 (73) | C | RR10015S |
| S66H2-38 | 2-3/8" | 3.29 (83.5) | 2.13 (54) | 1.34 (34) | 2.87 (73) | C | RR10015S |
| S66H2-716 | 2-7/16" | 3.35 (85) | 2.13 (54) | 1.34 (34) | 2.95 (75) | C | RR10015S |
| S66H2-12 | 2-1/2" | 3.41 (86.5) | 2.13 (54) | 1.34 (34) | 2.95 (75) | C | RR10015S |
| S66M17 | 17 mm | 1.18 (30) | 1.73 (44) | 0.51 (13) | 2.01 (51) | A | RR10034S |
| S66M18 | 18 mm | 1.22 (31) | 1.73 (44) | 0.51 (13) | 2.01 (51) | A | RR10034S |
| S66M19 | 19 mm | 1.28 (32.5) | 1.73 (44) | 0.51 (13) | 2.01 (51) | A | RR10034S |
| S66M20 | 20 mm | 1.32 (33.5) | 1.73 (44) | 0.51 (13) | 2.01 (51) | A | RR10034S |
| S66M21 | 21 mm | 1.38 (35) | 1.73 (44) | 0.51 (13) | 2.01 (51) | A | RR10034S |
| S66M22 | 22 mm | 1.42 (36) | 1.73 (44) | 0.51 (13) | 2.01 (51) | A | RR10034S |
| S66M23 | 23 mm | 1.48 (37.5) | 1.73 (44) | 0.51 (13) | 2.01 (51) | A | RR10034S |
| S66M24 | 24 mm | 1.52 (38.5) | 1.73 (44) | 0.63 (16) | 2.01 (51) | A | RR10034S |
| S66M25 | 25 mm | 1.57 (40) | 1.73 (44) | 0.63 (16) | 2.09 (53) | A | RR10034S |
| S66M26 | 26 mm | 1.61 (41) | 1.73 (44) | 0.63 (16) | 2.09 (53) | A | RR10034S |
| S66M27 | 27 mm | 1.67 (42.5) | 1.73 (44) | 0.63 (16) | 2.09 (53) | A | RR10034S |
| S66M28 | 28 mm | 1.73 (44) | 1.73 (44) | 0.75 (19) | 2.09 (53) | B | RR10034S |
| S66M29 | 29 mm | 1.77 (45) | 1.73 (44) | 0.75 (19) | 2.09 (53) | C | RR10034S |
| S66M30 | 30 mm | 1.81 (46) | 1.73 (44) | 0.75 (19) | 2.09 (53) | C | RR10034S |
| S66M31 | 31 mm | 1.87 (47.5) | 1.73 (44) | 0.75 (19) | 2.24 (57) | C | RR10034S |
| S66M32 | 32 mm | 1.91 (48.5) | 1.73 (44) | 0.75 (19) | 2.24 (57) | C | RR10034S |
| S66M33 | 33 mm | 1.97 (50) | 1.73 (44) | 0.87 (22) | 2.24 (57) | C | RR10034S |
| S66M34 | 34 mm | 2.01 (51) | 1.73 (44) | 0.87 (22) | 2.24 (57) | C | RR10034S |
| S66M35 | 35 mm | 2.07 (52.5) | 1.73 (44) | 0.87 (22) | 2.24 (57) | C | RR10034S |
| S66M36 | 36 mm | 2.11 (53.5) | 1.73 (44) | 0.87 (22) | 2.24 (57) | C | RR10034S |
| S66M37 | 37 mm | 2.17 (55) | 1.73 (44) | 0.87 (22) | 2.24 (57) | C | RR10034S |
| S66M38 | 38 mm | 2.2 (56) | 1.73 (44) | 0.87 (22) | 2.24 (57) | C | RR10034S |
| S66M40 | 40 mm | 2.3 (58.5) | 1.73 (44) | 0.87 (22) | 2.28 (58) | C | RR10034S |
| S66M41 | 41 mm | 2.36 (60) | 1.73 (44) | 0.87 (22) | 2.28 (58) | C | RR10034S |
| S66M42 | 42 mm | 2.4 (61) | 1.73 (44) | 0.98 (25) | 2.28 (58) | C | RR10034S |
| S66M43 | 43 mm | 2.46 (62.5) | 1.73 (44) | 0.98 (25) | 2.44 (62) | C | RR10034S |
| S66M44 | 44 mm | 2.52 (64) | 1.73 (44) | 0.98 (25) | 2.44 (62) | C | RR10034S |
| S66M46 | 46 mm | 2.6 (66) | 1.73 (44) | 0.98 (25) | 2.44 (62) | C | RR10034S |
| S66M50 | 50 mm | 2.8 (71) | 1.73 (44) | 1.18 (30) | 2.68 (68) | C | RR10034S |

| 6-PT | | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|---|-------------|-------------|-------------|-------------|------------|------------|-----------|----------|----------------------------|
| DEEP | | | | | | | | | |
|  | S66H12L | 1/2" | 0.91 (23) | 1.63 (41.4) | 0.63 (16) | 3.54 (90) | A | RR10010 | |
| | S66H916L | 9/16" | 1 (25.5) | 1.63 (41.4) | 0.63 (16) | 3.54 (90) | A | RR10010 | |
| | S66H58L | 5/8" | 1.1 (28) | 1.63 (41.4) | 0.63 (16) | 3.54 (90) | A | RR10010 | |
|  | S66H1116L | 11/16" | 1.16 (29.5) | 1.63 (41.4) | 0.63 (16) | 3.54 (90) | A | RR10010 | |
| | S66H34L | 3/4" | 1.26 (32) | 1.63 (41.4) | 0.63 (16) | 3.54 (90) | A | RR10010 | |
| | S66H1316L | 13/16" | 1.38 (35) | 1.63 (41.4) | 0.63 (16) | 3.54 (90) | A | RR10010 | |
| | S66H78L | 7/8" | 1.42 (36) | 1.63 (41.4) | 0.63 (16) | 3.54 (90) | A | RR10010 | |
| | S66H1516L | 15/16" | 1.52 (38.5) | 1.63 (41.4) | 0.63 (16) | 3.54 (90) | A | RR10010 | |
| | S66H1L | 1" | 1.57 (40) | 1.63 (41.4) | 0.63 (16) | 3.54 (90) | A | RR10010 | |
| | S66H1-116L | 1-1/16" | 1.67 (42.5) | 1.73 (44) | 0.63 (16) | 3.54 (90) | A | RR10034S | |
| | S66H1-18L | 1-1/8" | 1.73 (44) | 1.73 (44) | 0.63 (16) | 3.54 (90) | B | RR10034S | |
| | S66H1-316L | 1-3/16" | 1.81 (46) | 1.73 (44) | 0.63 (16) | 3.54 (90) | C | RR10034S | |
| | S66H1-14L | 1-1/4" | 1.91 (48.5) | 1.73 (44) | 0.63 (16) | 3.54 (90) | C | RR10034S | |
| | S66H1-516L | 1-5/16" | 1.97 (50) | 1.73 (44) | 0.87 (22) | 3.54 (90) | C | RR10034S | |
| | S66H1-38L | 1-3/8" | 2.07 (52.5) | 1.73 (44) | 0.87 (22) | 3.54 (90) | C | RR10034S | |
| | S66H1-716L | 1-7/16" | 2.11 (53.5) | 1.73 (44) | 0.87 (22) | 3.54 (90) | C | RR10034S | |
| | S66H1-12L | 1-1/2" | 2.2 (56) | 1.73 (44) | 0.87 (22) | 3.54 (90) | C | RR10034S | |
| | S66H1-916L | 1-9/16" | 2.3 (58.5) | 1.73 (44) | 0.87 (22) | 3.54 (90) | C | RR10034S | |
| | S66H1-58L | 1-5/8" | 2.36 (60) | 1.73 (44) | 0.87 (22) | 3.54 (90) | C | RR10034S | |
| | S66H1-1116L | 1-11/16" | 2.5 (63.5) | 1.73 (44) | 1.06 (27) | 3.54 (90) | C | RR10034S | |
| | S66H1-34L | 1-3/4" | 2.54 (64.5) | 1.73 (44) | 1.06 (27) | 3.54 (90) | C | RR10034S | |
| | S66H1-1316L | 1-13/16" | 2.6 (66) | 1.73 (44) | 1.06 (27) | 3.54 (90) | C | RR10034S | |
| | S66H1-78L | 1-7/8" | 2.68 (68) | 1.73 (44) | 1.06 (27) | 3.54 (90) | C | RR10034S | |
| | S66H1-1516L | 1-15/16" | 2.76 (70) | 1.73 (44) | 1.06 (27) | 3.54 (90) | C | RR10034S | |
| | S66H2L | 2" | 2.8 (71) | 1.73 (44) | 1.06 (27) | 3.54 (90) | C | RR10034S | |
| | S66H2-116L | 2-1/16" | 2.91 (74) | 2.13 (54) | 1.22 (31) | 3.94 (100) | C | RR10015S | |
| | S66H2-18L | 2-1/8" | 2.99 (76) | 2.13 (54) | 1.22 (31) | 3.94 (100) | C | RR10015S | |
| S66H2-316L | 2-3/16" | 3.07 (78) | 2.13 (54) | 1.22 (31) | 3.94 (100) | C | RR10015S | | |
| S66H2-14L | 2-1/4" | 3.15 (80) | 2.13 (54) | 1.34 (34) | 3.94 (100) | C | RR10015S | | |
| S66H2-516L | 2-5/16" | 3.21 (81.5) | 2.13 (54) | 1.34 (34) | 4.13 (105) | C | RR10015S | | |
| S66H2-38L | 2-3/8" | 3.29 (83.5) | 2.13 (54) | 1.34 (34) | 4.13 (105) | C | RR10015S | | |
| S66H2-716L | 2-7/16" | 3.35 (85) | 2.13 (54) | 1.34 (34) | 4.13 (105) | C | RR10015S | | |
| S66H2-12L | 2-1/2" | 3.39 (86) | 2.13 (54) | 1.34 (34) | 4.13 (105) | C | RR10015S | | |
| S66M17L | 17 mm | 1.18 (30) | 1.73 (44) | 0.75 (19) | 3.54 (90) | A | RR10034S | | |
| S66M19L | 19 mm | 1.28 (32.5) | 1.73 (44) | 0.75 (19) | 3.54 (90) | A | RR10034S | | |
| S66M20L | 20 mm | 1.32 (33.5) | 1.73 (44) | 0.75 (19) | 3.54 (90) | A | RR10034S | | |
| S66M21L | 21 mm | 1.38 (35) | 1.73 (44) | 0.75 (19) | 3.54 (90) | A | RR10034S | | |
| S66M22L | 22 mm | 1.42 (36) | 1.73 (44) | 0.75 (19) | 3.54 (90) | A | RR10034S | | |
| S66M23L | 23 mm | 1.48 (37.5) | 1.73 (44) | 0.75 (19) | 3.54 (90) | A | RR10034S | | |
| S66M24L | 24 mm | 1.52 (38.5) | 1.73 (44) | 0.75 (19) | 3.54 (90) | A | RR10034S | | |



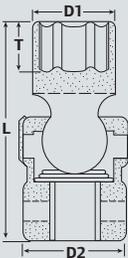
6-PT

| Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|----------------------|-------------|-------------|------------|-----------|-----------|------|----------------------------|
| DEEP (cont'd) | | | | | | | |
| S66M25L | 25 mm | 1.57 (40) | 1.73 (44) | 0.75 (19) | 3.54 (90) | A | RR10034S |
| S66M26L | 26 mm | 1.61 (41) | 1.73 (44) | 0.87 (22) | 3.54 (90) | A | RR10034S |
| S66M27L | 27 mm | 1.67 (42.5) | 1.73 (44) | 0.87 (22) | 3.54 (90) | A | RR10034S |
| S66M28L | 28 mm | 1.73 (44) | 1.73 (44) | 0.87 (22) | 3.54 (90) | B | RR10034S |
| S66M29L | 29 mm | 1.77 (45) | 1.73 (44) | 0.87 (22) | 3.54 (90) | C | RR10034 |
| S66M30L | 30 mm | 1.81 (46) | 1.73 (44) | 0.87 (22) | 3.54 (90) | C | RR10034S |
| S66M31L | 31 mm | 1.87 (47.5) | 1.73 (44) | 0.87 (22) | 3.54 (90) | C | RR10034S |
| S66M32L | 32 mm | 1.91 (48.5) | 1.73 (44) | 0.87 (22) | 3.54 (90) | C | RR10034S |
| S66M33L | 33 mm | 1.97 (50) | 1.73 (44) | 0.98 (25) | 3.54 (90) | C | RR10034S |
| S66M34L | 34 mm | 2.01 (51) | 1.73 (44) | 0.98 (25) | 3.54 (90) | C | RR10034S |
| S66M35L | 35 mm | 2.07 (52.5) | 1.73 (44) | 0.98 (25) | 3.54 (90) | C | RR10034S |
| S66M36L | 36 mm | 2.11 (53.5) | 1.73 (44) | 0.98 (25) | 3.54 (90) | C | RR10034S |
| S66M38L | 38 mm | 2.2 (56) | 1.73 (44) | 0.98 (25) | 3.54 (90) | C | RR10034S |
| S66M40L | 40 mm | 2.3 (58.5) | 1.73 (44) | 1.18 (30) | 3.54 (90) | C | RR10034S |
| S66M41L | 41 mm | 2.36 (60) | 1.73 (44) | 1.18 (30) | 3.54 (90) | C | RR10034S |
| S66M42L | 42 mm | 2.4 (61) | 1.73 (44) | 1.18 (30) | 3.54 (90) | C | RR10034S |
| S66M43L | 43 mm | 2.46 (62.5) | 1.73 (44) | 1.18 (30) | 3.54 (90) | C | RR10034S |
| S66M44L | 44 mm | 2.52 (64) | 1.73 (44) | 1.18 (30) | 3.54 (90) | C | RR10034S |
| S66M46L | 46 mm | 2.6 (66) | 1.73 (44) | 1.18 (30) | 3.54 (90) | C | RR10034S |
| S66M50L | 50 mm | 2.8 (71) | 1.73 (44) | 1.18 (30) | 3.54 (90) | C | RR10034S |

UNIVERSAL



A



| | | | | | | | |
|-------------|----------|-----------|-----------|-----------|------------|---|----------|
| S66H1116U | 11/16" | 1.14 (29) | 1.73 (44) | 0.51 (13) | 3.74 (95) | A | RR10034S |
| S66H34U | 3/4" | 1.26 (32) | 1.73 (44) | 0.51 (13) | 3.74 (95) | A | RR10034S |
| S66H1316U | 13/16" | 1.38 (35) | 1.73 (44) | 0.51 (13) | 3.74 (95) | A | RR10034S |
| S66H78U | 7/8" | 1.46 (37) | 1.73 (44) | 0.51 (13) | 3.74 (95) | A | RR10034S |
| S66H1516U | 15/16" | 1.54 (39) | 1.73 (44) | 0.51 (13) | 3.74 (95) | A | RR10034S |
| S66H1U | 1" | 1.61 (41) | 1.73 (44) | 0.51 (13) | 3.94 (100) | A | RR10034S |
| S66H1-116U | 1-1/16" | 1.69 (43) | 1.73 (44) | 0.67 (17) | 3.94 (100) | A | RR10034S |
| S66H1-18U | 1-1/8" | 1.73 (44) | 1.73 (44) | 0.67 (17) | 3.94 (100) | A | RR10034S |
| S66H1-316U | 1-3/16" | 1.85 (47) | 1.73 (44) | 0.67 (17) | 3.94 (100) | A | RR10034S |
| S66H1-14U | 1-1/4" | 1.93 (49) | 1.73 (44) | 0.67 (17) | 4.13 (105) | A | RR10034S |
| S66H1-516U | 1-5/16" | 2.01 (51) | 1.73 (44) | 0.75 (19) | 4.13 (105) | A | RR10034S |
| S66H1-38U | 1-3/8" | 2.09 (53) | 1.73 (44) | 0.75 (19) | 4.13 (105) | A | RR10034S |
| S66H1-716U | 1-7/16" | 2.13 (54) | 1.73 (44) | 0.75 (19) | 4.33 (110) | A | RR10034S |
| S66H1-12U | 1-1/2" | 2.24 (57) | 1.73 (44) | 0.87 (22) | 4.33 (110) | A | RR10034S |
| S66H1-916U | 1-9/16" | 2.36 (60) | 1.73 (44) | 0.87 (22) | 4.33 (110) | A | RR10034S |
| S66H1-58U | 1-5/8" | 2.36 (60) | 1.73 (44) | 0.87 (22) | 4.53 (115) | A | RR10034S |
| S66H1-1116U | 1-11/16" | 2.48 (63) | 1.73 (44) | 1.06 (27) | 4.53 (115) | A | RR10034S |
| S66H1-34U | 1-3/4" | 2.52 (64) | 1.73 (44) | 1.06 (27) | 4.53 (115) | A | RR10034S |
| S66H1-1316U | 1-13/16" | 2.6 (66) | 1.73 (44) | 1.06 (27) | 4.53 (115) | A | RR10034S |

|  6-PT | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|--|-------------|-------------|------------|------------|-----------|------------|------|----------------------------|
| UNIVERSAL (cont'd) | | | | | | | | |
| | S66H1-78U | 1-7/8" | 2.68 (68) | 1.73 (44) | 1.06 (27) | 4.53 (115) | A | RR10034S |
| | S66M17U | 17 mm | 1.14 (29) | 1.73 (44) | 0.47 (12) | 3.74 (95) | A | RR10034S |
| | S66M19U | 19 mm | 1.26 (32) | 1.73 (44) | 0.47 (12) | 3.74 (95) | A | RR10034S |
| | S66M20U | 20 mm | 1.34 (34) | 1.73 (44) | 0.47 (12) | 3.74 (95) | A | RR10034S |
| | S66M21U | 21 mm | 1.38 (35) | 1.73 (44) | 0.47 (12) | 3.74 (95) | A | RR10034S |
| | S66M22U | 22 mm | 1.46 (37) | 1.73 (44) | 0.55 (14) | 3.74 (95) | A | RR10034S |
| | S66M23U | 23 mm | 1.5 (38) | 1.73 (44) | 0.55 (14) | 3.74 (95) | A | RR10034S |
| | S66M24U | 24 mm | 1.54 (39) | 1.73 (44) | 0.55 (14) | 3.74 (95) | A | RR10034S |
| | S66M25U | 25 mm | 1.61 (41) | 1.73 (44) | 0.55 (14) | 3.94 (100) | A | RR10034S |
| | S66M26U | 26 mm | 1.65 (42) | 1.73 (44) | 0.67 (17) | 3.94 (100) | A | RR10034S |
| | S66M27U | 27 mm | 1.69 (43) | 1.73 (44) | 0.67 (17) | 3.94 (100) | A | RR10034S |
| | S66M28U | 28 mm | 1.73 (44) | 1.73 (44) | 0.67 (17) | 3.94 (100) | A | RR10034S |
| | S66M29U | 29 mm | 1.81 (46) | 1.73 (44) | 0.67 (17) | 3.94 (100) | A | RR10034S |
| | S66M30U | 30 mm | 1.85 (47) | 1.73 (44) | 0.67 (17) | 3.94 (100) | A | RR10034S |
| | S66M31U | 31 mm | 1.89 (48) | 1.73 (44) | 0.83 (21) | 4.13 (105) | A | RR10034S |
| | S66M32U | 32 mm | 1.93 (49) | 1.73 (44) | 0.83 (21) | 4.13 (105) | A | RR10034S |
| | S66M33U | 33 mm | 2.01 (51) | 1.73 (44) | 0.83 (21) | 4.13 (105) | A | RR10034S |
| | S66M34U | 34 mm | 2.05 (52) | 1.73 (44) | 0.83 (21) | 4.13 (105) | A | RR10034S |
| | S66M35U | 35 mm | 2.09 (53) | 1.73 (44) | 0.83 (21) | 4.13 (105) | A | RR10034S |
| | S66M36U | 36 mm | 2.13 (54) | 1.73 (44) | 0.91 (23) | 4.33 (110) | A | RR10034S |
| | S66M37U | 37 mm | 2.2 (56) | 1.73 (44) | 0.91 (23) | 4.33 (110) | A | RR10034S |
| | S66M38U | 38 mm | 2.24 (57) | 1.73 (44) | 0.91 (23) | 4.33 (110) | A | RR10034S |
| | S66M39U | 39 mm | 2.32(59) | 1.73 (44) | 0.91 (23) | 4.33 (110) | A | RR10034S |
| | S66M40U | 40 mm | 2.36 (60) | 1.73 (44) | 0.91 (23) | 4.33 (110) | A | RR10034S |
| | S66M41U | 41 mm | 2.36 (60) | 1.73 (44) | 1.02 (26) | 4.53 (115) | A | RR10034S |
| | S66M42U | 42 mm | 2.44 (62) | 1.73 (44) | 1.02 (26) | 4.53 (115) | A | RR10034S |
| | S66M43U | 43 mm | 2.48 (63) | 1.73 (44) | 1.02 (26) | 4.53 (115) | A | RR10034S |
| | S66M44U | 44 mm | 2.52 (64) | 1.73 (44) | 1.14 (29) | 4.53 (115) | A | RR10034S |
| | S66M45U | 45 mm | 2.6 (66) | 1.73 (44) | 1.14 (29) | 4.53 (115) | A | RR10034S |
| | S66M46U | 46 mm | 2.6 (66) | 1.73 (44) | 1.14 (29) | 4.53 (115) | A | RR10034S |

Accessories

| | Description | Output Size | Recommended Retaining Ring |
|---------------|---------------------------------------|-------------|----------------------------|
| A6F4M | 3/4" female to 1/2" male adapter | 1/2" | RR10034S |
| A6F8M | 3/4" female to 1" male adapter | 1" | RR10034S |
| A6F55M | 3/4" female to #5 spline male adapter | #5 Spline | RR10034S |
| J6 | Universal joint | 3/4" | RR10034S |
| E63H | 3" Extension | 3/4" | RR10034S |
| E67H | 7" Extension | 3/4" | RR10034S |
| E610H | 10" Extension | 3/4" | RR10034S |
| E613H | 13" Extension | 3/4" | RR10034S |

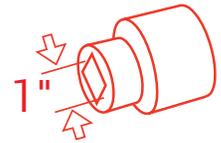


Adapter



Extension

1" Square Drive Impact Sockets



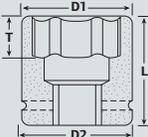
Sets

| Part Number | # of Pieces | Description | Contents |
|-------------|-------------|----------------------------|--|
| SK8H8 | 8 | 1" Drive standard set | 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-3/16", 1-1/4", 1-1/2" |
| SK8H8L | 8 | 1" Drive deep standard set | 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-3/16", 1-1/4", 1-1/2" |
| SK8H9T | 9 | 1" Drive truck service set | 13/16" Square; 7/8", 15/16", 1", 1-3/16", 1-1/2" hex; 1-1/16", 1-1/8", 1-1/4" deep thin wall hex |
| SK8C5T | 5 | 1" Drive truck service set | 13/16" square; 33 mm & 1-1/2" deep hex; 1-1/8" and 1-1/4" deep thin wall hex |
| SK8M4L | 4 | 1" Drive deep metric set | 27 mm, 30 mm, 32 mm, 33 mm |



SK8H8L

Individuals

|  6-PT | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|--|-------------|-------------|-------------|-------------|-----------|-----------|----------|----------------------------|
| | STANDARD | | | | | | | |
|   | S68H34 | 3/4" | 1.38 (35) | 2.13 (54) | 0.67 (17) | 2.28 (58) | A | RR10015S |
| | S68H1316 | 13/16" | 1.48 (37.5) | 2.13 (54) | 0.67 (17) | 2.28 (58) | A | RR10015S |
| | S68H78 | 7/8" | 1.54 (39) | 2.13 (54) | 0.67 (17) | 2.28 (58) | A | RR10015S |
| | S68H1516 | 15/16" | 1.59 (40.5) | 2.13 (54) | 0.67 (17) | 2.28 (58) | A | RR10015S |
| | S68H1 | 1" | 1.67 (42.5) | 2.13 (54) | 0.67 (17) | 2.36 (60) | A | RR10015S |
| | S68H1-116 | 1-1/16" | 1.75 (44.5) | 2.13 (54) | 0.67 (17) | 2.36 (60) | A | RR10015S |
| | S68H1-18 | 1-1/8" | 1.81 (46) | 2.13 (54) | 0.67 (17) | 2.44 (62) | A | RR10015S |
| | S68H1-316 | 1-3/16" | 1.93 (49) | 2.13 (54) | 0.67 (17) | 2.44 (62) | A | RR10015S |
| | S68H1-14 | 1-1/4" | 2.13 (54) | 2.13 (54) | 0.75 (19) | 2.48 (63) | A | RR10015S |
| | S68H1-516 | 1-5/16 | 2.13 (54) | 2.13 (54) | 0.75 (19) | 2.48 (63) | A | PR10015S |
| | S68H1-38 | 1-3/8" | 2.17 (55) | 2.13 (54) | 0.75 (19) | 2.6 (66) | C | RR10015S |
| | S68H1-716 | 1-7/16" | 2.22 (56.5) | 2.13 (54) | 0.75 (19) | 2.6 (66) | C | RR10015S |
| | S68H1-12 | 1-1/2" | 2.32 (59) | 2.13 (54) | 0.87 (22) | 2.6 (66) | C | RR10015S |
| | S68H1-916 | 1-9/16" | 2.4 (61) | 2.13 (54) | 0.87 (22) | 2.6 (66) | C | RR10015S |
| | S68H1-58 | 1-5/8" | 2.46 (62.5) | 2.13 (54) | 0.87 (22) | 2.68 (68) | C | RR10015S |
| | S68H1-1116 | 1-11/16" | 2.56 (65) | 2.13 (54) | 0.98 (25) | 2.76 (70) | C | RR10015S |
| | S68H1-34 | 1-3/4" | 2.66 (67.5) | 2.37 (60.3) | 0.98 (25) | 2.76 (70) | C | RR10015S |
| | S68H1-1316 | 1-13/16" | 2.72 (69) | 2.37 (60.3) | 1.06 (27) | 2.83 (72) | C | RR10015 |
| | S68H1-78 | 1-7/8" | 2.76 (70) | 2.37 (60.3) | 1.06 (27) | 2.83 (72) | C | RR10015S |
| | S68H1-1516 | 1-15/16" | 2.85 (72.5) | 2.37 (60.3) | 1.06 (27) | 2.99 (76) | C | RR10015S |
| S68H2 | 2" | 2.91 (74) | 2.37 (60.3) | 1.06 (27) | 2.99 (76) | C | RR10015S | |



6-PT

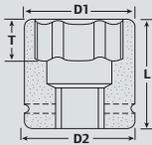
STANDARD (cont'd)



A

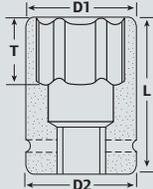
B

C



| Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|-------------|-------------|--------------|-------------|-----------|------------|------|----------------------------|
| S68H2-116 | 2-1/16" | 3.01 (76.5) | 2.37 (60.3) | 1.22 (31) | 3.15 (80) | C | RR10015S |
| S68H2-18 | 2-1/8" | 3.11 (79) | 2.37 (60.3) | 1.22 (31) | 3.15 (80) | C | RR10015S |
| S68H2-316 | 2-3/16" | 3.15 (80) | 2.37 (60.3) | 1.22 (31) | 3.31 (84) | C | RR10015S |
| S68H2-14 | 2-1/4" | 3.25 (82.5) | 2.37 (60.3) | 1.34 (34) | 3.31 (84) | C | RR10015S |
| S68H2-516 | 2-5/16" | 3.31 (84) | 2.37 (60.3) | 1.34 (34) | 3.31 (84) | C | RR10015S |
| S68H2-38 | 2-3/8" | 3.41 (86.5) | 2.37 (60.3) | 1.34 (34) | 3.46 (88) | C | RR10015S |
| S68H2-716 | 2-7/16" | 3.5 (89) | 2.37 (60.3) | 1.42 (36) | 3.46 (88) | C | RR10015S |
| S68H2-12 | 2-1/2" | 3.6 (91.5) | 2.37 (60.3) | 1.42 (36) | 3.46 (88) | C | RR10015S |
| S68H2-916 | 2-9/16" | 3.64 (92.5) | 2.37 (60.3) | 1.42 (36) | 3.62 (92) | C | RR10015S |
| S68H2-58 | 2-5/8" | 3.74 (95) | 2.37 (60.3) | 1.5 (38) | 3.62 (92) | C | RR10015S |
| S68H2-1116 | 2-11/16" | 3.8 (96.5) | 2.37 (60.3) | 1.5 (38) | 3.78 (96) | C | RR10015S |
| S68H2-34 | 2-3/4" | 63.9 (99) | 2.37 (60.3) | 1.5 (38) | 3.78 (96) | C | RR10015S |
| S68H2-1316 | 2-13/16" | 4 (101.5) | 2.37 (60.3) | 1.61 (41) | 3.78 (96) | C | RR10015S |
| S68H2-78 | 2-7/8" | 4.04 (102.5) | 2.37 (60.3) | 1.61 (41) | 3.78 (96) | C | RR10015S |
| S68H2-1516 | 2-15/16" | 4.11 (104.5) | 2.37 (60.3) | 1.61 (41) | 3.94 (100) | C | RR10015S |
| S68H3 | 3" | 4.19 (106.5) | 2.37 (60.3) | 1.73 (44) | 3.94 (100) | C | RR10015S |
| S68H3-18 | 3-1/8" | 4.37 (111) | 2.37 (60.3) | 1.73 (44) | 3.94 (100) | C | RR10015S |
| S68H3-14 | 3-1/4" | 4.53 (115) | 3.39 (86) | 1.73 (44) | 4.02 (102) | C | RR10025S |
| S68H3-38 | 3-3/8" | 4.69 (119) | 3.39 (86) | 1.93 (49) | 4.17 (106) | C | RR10025S |
| S68H3-12 | 3-1/2" | 4.88 (124) | 3.39 (86) | 1.93 (49) | 4.25 (108) | C | RR10025S |
| S68H3-58 | 3-5/8" | 5 (127) | 3.39 (86) | 2.09 (53) | 4.33 (110) | C | RR10025S |
| S68H3-34 | 3-3/4" | 5.12 (130) | 3.39 (86) | 2.09 (53) | 4.33 (110) | C | RR10025S |
| S68H3-78 | 3-7/8" | 5.35 (136) | 3.74 (95) | 2.2 (56) | 4.53 (115) | C | RR10025S |
| S68H4 | 4" | 5.51 (140) | 3.74 (95) | 2.2 (56) | 4.53 (115) | C | RR10025S |
| S68H4-18 | 4-1/8" | 5.63 (143) | 3.74 (95) | 2.32 (59) | 4.72 (120) | C | RR10025S |
| S68H4-14 | 4-1/4" | 5.75 (146) | 3.74 (95) | 2.32 (59) | 4.72 (120) | C | RR10025S |
| S68H4-38 | 4-3/8" | 5.87 (149) | 3.74 (95) | 2.4 (61) | 4.72 (120) | C | RR10025S |
| S68H4-12 | 4-1/2" | 5.98 (152) | 3.74 (95) | 2.4 (61) | 4.72 (120) | C | RR10025S |
| S68M19 | 19 mm | 1.38 (35) | 2.13 (54) | 0.67 (17) | 2.28 (58) | A | RR10015S |
| S68M21 | 21 mm | 1.48 (37.5) | 2.13 (54) | 0.67 (17) | 2.28 (58) | A | RR10015S |
| S68M22 | 22 mm | 1.54 (39) | 2.13 (54) | 0.67 (17) | 2.28 (58) | A | RR10015S |
| S68M23 | 23 mm | 1.57 (40) | 2.13 (54) | 0.67 (17) | 2.28 (58) | A | RR10015S |
| S68M24 | 24 mm | 1.63 (41.5) | 2.13 (54) | 0.67 (17) | 2.28 (58) | A | RR10015S |
| S68M25 | 25 mm | 1.67 (42.5) | 2.13 (54) | 0.67 (17) | 2.36 (60) | A | RR10015S |
| S68M26 | 26 mm | 1.73 (44) | 2.13 (54) | 0.67 (17) | 2.36 (60) | A | RR10015S |
| S68M27 | 27 mm | 1.77 (45) | 2.13 (54) | 0.67 (17) | 2.36 (60) | A | RR10015S |
| S68M28 | 28 mm | 1.83 (46.5) | 2.13 (54) | 0.67 (17) | 2.36 (60) | A | RR10015S |
| S68M29 | 29 mm | 1.87 (47.5) | 2.13 (54) | 0.75 (19) | 2.44 (62) | A | RR10015S |
| S68M30 | 30 mm | 1.93 (49) | 2.13 (54) | 0.75 (19) | 2.44 (62) | A | RR10015S |
| S68M31 | 31 mm | 1.97 (50) | 2.13 (54) | 0.75 (19) | 2.44 (62) | A | RR10015S |

| 6-PT | | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|--------------------------|------------|-------------|--------------|-------------|------------|------------|-----------|----------|----------------------------|
| STANDARD (cont'd) | | | | | | | | | |
| | S68M32 | 32 mm | 2.03 (51.5) | 2.13 (54) | 0.75 (19) | 2.48 (63) | A | RR10015S | |
| | S68M33 | 33 mm | 2.07 (52.5) | 2.13 (54) | 0.83 (21) | 2.48 (63) | A | RR10015S | |
| | S68M34 | 34 mm | 2.13 (54) | 2.13 (54) | 0.83 (21) | 2.48 (63) | B | RR10015S | |
| | S68M35 | 35 mm | 2.17 (55) | 2.13 (54) | 0.83 (21) | 2.6 (66) | C | RR10015S | |
| | S68M36 | 36 mm | 2.22 (56.5) | 2.13 (54) | 0.91 (23) | 2.6 (66) | C | RR10015S | |
| | S68M38 | 38 mm | 2.32 (59) | 2.13 (54) | 0.91 (23) | 2.6 (66) | C | RR10015S | |
| | S68M40 | 40 mm | 2.4 (61) | 2.13 (54) | 0.91 (23) | 2.6 (66) | C | RR10015S | |
| | S68M41 | 41 mm | 2.46 (62.5) | 2.13 (54) | 0.98 (25) | 2.68 (68) | C | RR10015S | |
| | S68M42 | 42 mm | 2.52 (64) | 2.13 (54) | 0.98 (25) | 2.68 (68) | C | RR10015S | |
| | S68M43 | 43 mm | 2.56 (65) | 2.13 (54) | 0.98 (25) | 2.76 (70) | C | RR10015S | |
| | S68M45 | 45 mm | 2.66 (67.5) | 2.13 (54) | 0.98 (25) | 2.76 (70) | C | RR10015S | |
| | S68M46 | 46 mm | 2.72 (69) | 2.13 (54) | 1.14 (29) | 2.83 (72) | C | RR10015S | |
| | S68M48 | 48 mm | 2.81 (71.5) | 2.13 (54) | 1.14 (29) | 2.99 (76) | C | RR10015S | |
| | S68M50 | 50 mm | 2.91 (74) | 2.13 (54) | 1.22 (31) | 2.99 (76) | C | RR10015S | |
| | S68M52 | 52 mm | 3.01 (76.5) | 2.13 (54) | 1.22 (31) | 3.15 (80) | C | RR10015S | |
| | S68M54 | 54 mm | 3.11 (79) | 2.13 (54) | 1.22 (31) | 3.15 (80) | C | RR10015S | |
| | S68M55 | 55 mm | 3.15 (80) | 2.13 (54) | 1.34 (34) | 3.31 (84) | C | RR10015S | |
| | S68M56 | 56 mm | 3.21 (81.5) | 2.13 (54) | 1.34 (34) | 3.31 (84) | C | RR10015S | |
| | S68M58 | 58 mm | 3.31 (84) | 2.13 (54) | 1.34 (34) | 3.31 (84) | C | RR10015S | |
| | S68M60 | 60 mm | 3.41 (86.5) | 2.13 (54) | 1.38 (35) | 3.46 (88) | C | RR10015S | |
| | S68M65 | 65 mm | 3.64 (92.5) | 2.13 (54) | 1.38 (35) | 3.62 (92) | C | RR10015S | |
| | S68M70 | 70 mm | 3.9 (99) | 2.13 (54) | 1.38 (35) | 3.78 (96) | C | RR10015S | |
| | S68M75 | 75 mm | 4.13 (105) | 2.37 (60.3) | 1.38 (35) | 4.02 (102) | C | RR10015S | |
| | S68M80 | 80 mm | 4.39 (111.5) | 2.37 (60.3) | 1.38 (35) | 4.02 (102) | C | RR10015S | |
| | S68M85 | 85 mm | 4.63 (117.5) | 3.39 (86) | 1.38 (35) | 4.17 (106) | C | RR10025S | |
| | S68M90 | 90 mm | 4.88 (124) | 3.39 (86) | 1.38 (35) | 4.25 (108) | C | RR10025S | |
| | S68M95 | 95 mm | 5.12 (130) | 3.39 (86) | 1.38 (35) | 4.33 (110) | C | RR10025S | |
| DEEP | | | | | | | | | |
| | S68H34L | 3/4" | 1.38 (35) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S | |
| | S68H1316L | 13/16" | 1.46 (37) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S | |
| | S68H78L | 7/8" | 1.54 (39) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S | |
| | S68H1516L | 15/16" | 1.59 (40.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S | |
| | S68H1L | 1" | 1.67 (42.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S | |
| | S68H1-116L | 1-1/16" | 1.75 (44.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S | |
| | S68H1-18L | 1-1/8" | 1.81 (46) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S | |
| | S68H1-316L | 1-3/16" | 1.93 (49) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S | |
| | S68H1-14L | 1-1/4" | 2.03 (51.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S | |
| | S68H1-516L | 1-5/16" | 2.13 (54) | 2.13 (54) | 0.98 (25) | 3.54 (90) | B | RR10015S | |
| | S68H1-38L | 1-3/8" | 2.17 (55) | 2.13 (54) | 0.98 (25) | 3.54 (90) | C | RR10015S | |
| | S68H1-716L | 1-7/16" | 2.22 (56.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | C | RR10015S | |





6-PT

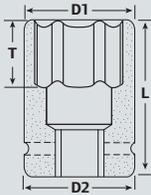
DEEP (cont'd)



A

B

C



| Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|-------------|-------------|--------------|-------------|-----------|------------|------|----------------------------|
| S68H1-12L | 1-1/2" | 2.32 (59) | 2.13 (54) | 0.98 (25) | 3.54 (90) | C | RR10015S |
| S68H1-916L | 1-9/16" | 2.4 (61) | 2.13 (54) | 0.98 (25) | 3.54 (90) | C | RR10015S |
| S68H1-58L | 1-5/8" | 2.46 (62.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | C | RR10015S |
| S68H1-1116L | 1-11/16" | 2.56 (65) | 2.13 (54) | 0.98 (25) | 3.54 (90) | C | RR10015S |
| S68H1-34L | 1-3/4" | 2.66 (67.5) | 2.37 (60.3) | 1.22 (31) | 3.94 (100) | C | RR10015S |
| S68H1-1316L | 1-13/16" | 2.72 (69) | 2.37 (60.3) | 1.22 (31) | 3.94 (100) | C | RR10015S |
| S68H1-78L | 1-7/8" | 2.76 (70) | 2.37 (60.3) | 1.22 (31) | 3.94 (100) | C | RR10015S |
| S68H1-1516L | 1-15/16" | 2.85 (72.5) | 2.37 (60.3) | 1.22 (31) | 3.94 (100) | C | RR10015S |
| S68H2L | 2" | 2.91 (74) | 2.37 (60.3) | 1.22 (31) | 3.94 (100) | C | RR10015S |
| S68H2-116L | 2-1/16" | 3.01 (76.5) | 2.37 (60.3) | 1.22 (31) | 3.94 (100) | C | RR10015S |
| S68H2-18L | 2-1/8" | 3.11 (79) | 2.37 (60.3) | 1.22 (31) | 4.25 (108) | C | RR10015S |
| S68H2-316L | 2-3/16" | 3.15 (80) | 2.37 (60.3) | 1.22 (31) | 4.25 (108) | C | RR10015S |
| S68H2-14L | 2-1/4" | 3.25 (82.5) | 2.37 (60.3) | 1.42 (36) | 4.25 (108) | C | RR10015S |
| S68H2-516L | 2-5/16" | 3.31 (84) | 2.37 (60.3) | 1.42 (36) | 4.25 (108) | C | RR10015S |
| S68H2-38L | 2-3/8" | 3.41 (86.5) | 2.37 (60.3) | 1.42 (36) | 4.25 (108) | C | RR10015S |
| S68H2-716L | 2-7/16" | 3.5 (89) | 2.37 (60.3) | 1.42 (36) | 4.25 (108) | C | RR10015S |
| S68H2-12L | 2-1/2" | 3.6 (91.5) | 2.37 (60.3) | 1.42 (36) | 4.72 (120) | C | RR10015S |
| S68H2-916L | 2-9/16" | 3.64 (92.5) | 2.37 (60.3) | 1.42 (36) | 4.72 (120) | C | RR10015S |
| S68H2-58L | 2-5/8" | 3.74 (95) | 2.37 (60.3) | 1.73 (44) | 4.72 (120) | C | RR10015S |
| S68H2-1116L | 2-11/16" | 3.8 (96.5) | 2.37 (60.3) | 1.73 (44) | 4.72 (120) | C | RR10015S |
| S68H2-34L | 2-3/4" | 3.9 (99) | 2.37 (60.3) | 1.73 (44) | 4.92 (125) | C | RR10015S |
| S68H2-1316L | 2-13/16" | 4 (101.5) | 2.37 (60.3) | 1.73 (44) | 4.92 (125) | C | RR10015S |
| S68H2-78L | 2-7/8" | 4.04 (102.5) | 2.37 (60.3) | 1.73 (44) | 4.92 (125) | C | RR10015S |
| S68H2-1516L | 2-15/16" | 4.11 (104.5) | 2.37 (60.3) | 1.73 (44) | 4.92 (125) | C | RR10015S |
| S68H3L | 3" | 4.19 (106.5) | 2.37 (60.3) | 1.73 (44) | 4.92 (125) | C | RR10015S |
| S68H3-18L | 3-1/8" | 4.39 (111.5) | 2.37 (60.3) | 1.73 (44) | 4.92 (125) | C | RR10015S |
| S68H3-14L | 3-1/4" | 4.45 (113) | 3.39 (86) | 1.73 (44) | 5.31 (135) | C | RR10025S |
| S68H3-38L | 3-3/8" | 4.53 (115) | 3.39 (86) | 2.2 (56) | 5.31 (135) | C | RR10025S |
| S68H3-12L | 3-1/2" | 4.69 (119) | 3.39 (86) | 2.2 (56) | 5.31 (135) | C | RR10025S |
| S68H3-58L | 3-5/8" | 5 (127) | 3.39 (86) | 2.2 (56) | 5.51 (140) | C | RR10025S |
| S68H3-34L | 3-3/4" | 5.12 (130) | 3.39 (86) | 2.2 (56) | 5.51 (140) | C | RR10025S |
| S68H3-78L | 3-7/8" | 5.35 (136) | 3.74 (95) | 2.2 (56) | 5.51 (140) | C | RR10025S |
| S68H4L | 4" | 5.51 (140) | 3.74 (95) | 2.2 (56) | 6.1 (155) | C | RR10025S |
| S68H4-18L | 4-1/8" | 5.63 (143) | 3.74 (95) | 2.4 (61) | 6.1 (155) | C | RR10025S |
| S68H4-14L | 4-1/4" | 5.75 (146) | 3.74 (95) | 2.4 (61) | 6.1 (155) | C | RR10025S |
| S68H4-38L | 4-3/8" | 5.87 (149) | 3.74 (95) | 2.4 (61) | 6.1 (155) | C | RR10025S |
| S68H4-12L | 4-1/2" | 5.98 (152) | 3.74 (95) | 2.4 (61) | 6.1 (155) | C | RR10025S |
| S68M19L | 19 mm | 1.38 (35) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S |
| S68M21L | 21 mm | 1.48 (37.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S |
| S68M22L | 22 mm | 1.54 (39) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S |

|  6-PT | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|--|-------------|-------------|--------------|-------------|-----------|------------|------|----------------------------|
| DEEP (cont'd) | | | | | | | | |
| | S68M23L | 23 mm | 1.57 (40) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S |
| | S68M24L | 24 mm | 1.63 (41.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S |
| | S68M25L | 25 mm | 1.67 (42.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S |
| | S68M26L | 26 mm | 1.73 (44) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S |
| | S68M27L | 27 mm | 1.77 (45) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S |
| | S68M28L | 28 mm | 1.83 (46.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S |
| | S68M29L | 29 mm | 1.87 (47.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S |
| | S68M30L | 30 mm | 1.93 (49) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S |
| | S68M31L | 31 mm | 1.97 (50) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S |
| | S68M32L | 32 mm | 2.03 (51.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S |
| | S68M33L | 33 mm | 2.07 (52.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | A | RR10015S |
| | S68M34L | 34 mm | 2.13 (54) | 2.13 (54) | 0.98 (25) | 3.54 (90) | B | RR10015S |
| | S68M35L | 35 mm | 2.17 (55) | 2.13 (54) | 0.98 (25) | 3.54 (90) | C | RR10015S |
| | S68M36L | 36 mm | 2.22 (56.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | C | RR10015S |
| | S68M37L | 37 mm | 2.28 (58) | 2.13 (54) | 0.98 (25) | 3.54 (90) | C | RR10015S |
| | S68M38L | 38 mm | 2.32 (59) | 2.13 (54) | 0.98 (25) | 3.54 (90) | C | RR10015S |
| | S68M40L | 40 mm | 2.4 (61) | 2.13 (54) | 0.98 (25) | 3.54 (90) | C | RR10015S |
| | S68M41L | 41 mm | 2.46 (62.5) | 2.13 (54) | 0.98 (25) | 3.54 (90) | C | RR10015S |
| | S68M42L | 42 mm | 2.52 (64) | 2.13 (54) | 0.98 (25) | 3.54 (90) | C | RR10015S |
| | S68M43L | 43 mm | 2.56 (65) | 2.13 (54) | 0.98 (25) | 3.54 (90) | C | RR10015S |
| | S68M45L | 45 mm | 2.66 (67.5) | 2.13 (54) | 1.18 (30) | 3.94 (100) | C | RR10015S |
| | S68M46L | 46 mm | 2.72 (69) | 2.13 (54) | 1.18 (30) | 3.94 (100) | C | RR10015S |
| | S68M48L | 48 mm | 2.81 (71.5) | 2.13 (54) | 1.18 (30) | 3.94 (100) | C | RR10015S |
| | S68M50L | 50 mm | 2.91 (74) | 2.13 (54) | 1.18 (30) | 3.94 (100) | C | RR10015S |
| | S68M52L | 52 mm | 3.01 (76.5) | 2.13 (54) | 1.18 (30) | 3.94 (100) | C | RR10015S |
| | S68M54L | 54 mm | 3.11 (79) | 2.13 (54) | 1.38 (35) | 4.25 (108) | C | RR10015S |
| | S68M55L | 55 mm | 3.15 (80) | 2.13 (54) | 1.38 (35) | 4.25 (108) | C | RR10015S |
| | S68M56L | 56 mm | 3.21 (81.5) | 2.13 (54) | 1.38 (35) | 4.25 (108) | C | RR10015S |
| | S68M58L | 58 mm | 3.31 (84) | 2.13 (54) | 1.38 (35) | 4.25 (108) | C | RR10015S |
| | S68M60L | 60 mm | 3.41 (86.5) | 2.13 (54) | 1.38 (35) | 4.25 (108) | C | RR10015S |
| | S68M65L | 65 mm | 3.64 (92.5) | 2.13 (54) | 1.38 (35) | 4.72 (120) | C | RR10015S |
| | S68M70L | 70 mm | 3.9 (99) | 2.13 (54) | 1.38 (35) | 4.92 (125) | C | RR10015S |
| | S68M75L | 75 mm | 4.13 (105) | 2.37 (60.3) | 1.38 (35) | 4.92 (125) | C | RR10015S |
| | S68M80L | 80 mm | 4.39 (111.5) | 2.37 (60.3) | 1.38 (35) | 4.92 (125) | C | RR10015S |
| | S68M85L | 85 mm | 4.53 (115) | 3.39 (86) | 1.38 (35) | 5.31 (135) | C | RR10025S |
| | S68M90L | 90 mm | 4.88 (124) | 3.39 (86) | 1.38 (35) | 5.31 (135) | C | RR10025S |
| | S68M95L | 95 mm | 5.12 (130) | 3.39 (86) | 1.38 (35) | 5.51 (140) | C | RR10025S |

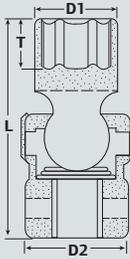


6-PT

UNIVERSAL



A



| Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|-------------|-------------|------------|------------|-----------|------------|------|----------------------------|
| S68H78U | 7/8" | 1.54 (39) | 2.13 (54) | 0.75 (19) | 5 (127) | A | RR10015S |
| S68H1516U | 15/16" | 1.61 (41) | 2.13 (54) | 0.75 (19) | 5.2 (132) | A | RR10015S |
| S68H1-116U | 1-1/16" | 1.77 (45) | 2.13 (54) | 0.75 (19) | 5.2 (132) | A | RR10015S |
| S68H1-18U | 1-1/8" | 1.89 (48) | 2.13 (54) | 0.75 (19) | 5.2 (132) | A | RR10015S |
| S68H1-316U | 1-3/16" | 1.93 (49) | 2.13 (54) | 0.75 (19) | 5.2 (132) | A | RR10015S |
| S68H1-14U | 1-1/4" | 2.01 (51) | 2.13 (54) | 0.75 (19) | 5.2 (132) | A | RR10015S |
| S68H1-516U | 1-5/16" | 2.09 (53) | 2.13 (54) | 0.75 (19) | 5.2 (132) | A | RR10015S |
| S68H1-38U | 1-3/8" | 2.17 (55) | 2.13 (54) | 0.75 (19) | 5.2 (132) | A | RR10015S |
| S68H1-716U | 1-7/16" | 2.28 (58) | 2.13 (54) | 0.75 (19) | 5.2 (132) | A | RR10015S |
| S68H1-12U | 1-1/2" | 2.32 (59) | 2.13 (54) | 0.98 (25) | 5.39 (137) | A | RR10015S |
| S68H1-916U | 1-9/16" | 2.4 (61) | 2.13 (54) | 0.98 (25) | 5.39 (137) | A | RR10015S |
| S68H1-58U | 1-5/8" | 2.48 (63) | 2.13 (54) | 0.98 (25) | 5.39 (137) | A | RR10015S |
| S68H1-1116U | 1-11/16" | 2.56 (65) | 2.13 (54) | 0.98 (25) | 5.39 (137) | A | RR10015S |
| S68H1-34U | 1-3/4" | 2.64 (67) | 2.13 (54) | 0.98 (25) | 5.39 (137) | A | RR10015S |
| S68H1-1316U | 1-13/16" | 2.72 (69) | 2.13 (54) | 1.06 (27) | 5.59 (142) | A | RR10015S |
| S68H1-78U | 1-7/8" | 2.8 (71) | 2.13 (54) | 1.06 (27) | 5.59 (142) | A | RR10015S |
| S68H1-1516U | 1-15/16" | 2.83 (72) | 2.13 (54) | 1.06 (27) | 5.59 (142) | A | RR10015S |
| S68H2U | 2" | 2.99 (76) | 2.13 (54) | 1.06 (27) | 5.59 (142) | A | RR10015S |
| S68M24U | 24 mm | 1.61 (41) | 2.13 (54) | 0.67 (17) | 5.2 (132) | A | RR10015S |
| S68M26U | 26 mm | 1.73 (44) | 2.13 (54) | 0.67 (17) | 5.2 (132) | A | RR10015S |
| S68M27U | 27 mm | 1.77 (45) | 2.13 (54) | 0.67 (17) | 5.2 (132) | A | RR10015S |
| S68M29U | 29 mm | 1.89 (48) | 2.13 (54) | 0.67 (17) | 5.2 (132) | A | RR10015S |
| S68M30U | 30 mm | 1.93 (49) | 2.13 (54) | 0.67 (17) | 5.2 (132) | A | RR10015S |
| S68M32U | 32 mm | 2.01 (51) | 2.13 (54) | 0.87 (22) | 5.2 (132) | A | RR10015S |
| S68M33U | 33 mm | 2.09 (53) | 2.13 (54) | 0.87 (22) | 5.2 (132) | A | RR10015S |
| S68M34U | 34 mm | 2.13 (54) | 2.13 (54) | 0.87 (22) | 5.2 (132) | A | RR10015S |
| S68M35U | 35 mm | 2.17 (55) | 2.13 (54) | 0.87 (22) | 5.2 (132) | A | RR10015S |
| S68M36U | 36 mm | 2.2 (56) | 2.13 (54) | 0.87 (22) | 5.2 (132) | A | RR10015S |
| S68M38U | 38 mm | 2.32 (59) | 2.13 (54) | 0.98 (25) | 5.39 (137) | A | RR10015S |
| S68M41U | 41 mm | 2.48 (63) | 2.13 (54) | 0.98 (25) | 5.39 (137) | A | RR10015S |
| S68M42U | 42 mm | 2.52 (64) | 2.13 (54) | 0.98 (25) | 5.39 (137) | A | RR10015S |
| S68M43U | 43 mm | 2.56 (65) | 2.13 (54) | 0.98 (25) | 5.39 (137) | A | RR10015S |
| S68M44U | 44 mm | 2.64 (67) | 2.13 (54) | 0.98 (25) | 5.39 (137) | A | RR10015S |
| S68M45U | 45 mm | 2.68 (68) | 2.13 (54) | 1.06 (27) | 5.59 (142) | A | RR10015S |
| S68M46U | 46 mm | 2.72 (69) | 2.13 (54) | 1.06 (27) | 5.59 (142) | A | RR10015S |
| S68M47U | 47 mm | 2.76 (70) | 2.13 (54) | 1.06 (27) | 5.59 (142) | A | RR10015S |
| S68M48U | 48 mm | 2.8 (71) | 2.13 (54) | 1.06 (27) | 5.59 (142) | A | RR10015S |
| S68M50U | 50 mm | 2.91 (74) | 2.13 (54) | 1.06 (27) | 5.59 (142) | A | RR10015S |

Accessories

| | Description | Output Size | Recommended Retaining Ring |
|---------------|-------------------------------------|-------------|----------------------------|
| A8F6M | 1" female to 3/4" male adapter | 3/4" | RR10015S |
| A8F12M | 1" female to 1-1/2" male adapter | 1-1/2" | RR10015S |
| A8F55M | 1" female to #5 spline male adapter | #5 Spline | RR10015S |
| J8 | Universal joint | 1" | RR10015S |
| E83H | 3" Extension | 1" | RR10015S |
| E87H | 7" Extension | 1" | RR10015S |
| E810H | 10" Extension | 1" | RR10015S |
| E813H | 13" Extension | 1" | RR10015S |

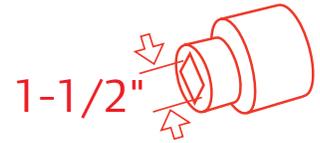


Adapter



Extension

1-1/2" Square Drive Impact Sockets

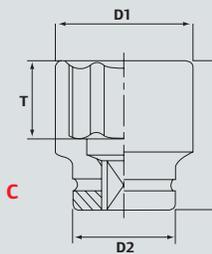
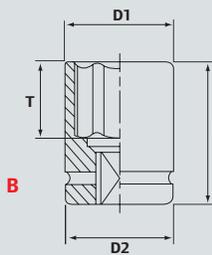
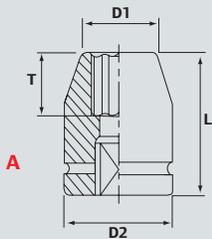


Individuals



| Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|-------------|-------------|------------|------------|-----------|-----------|------|----------------------------|
|-------------|-------------|------------|------------|-----------|-----------|------|----------------------------|

STANDARD

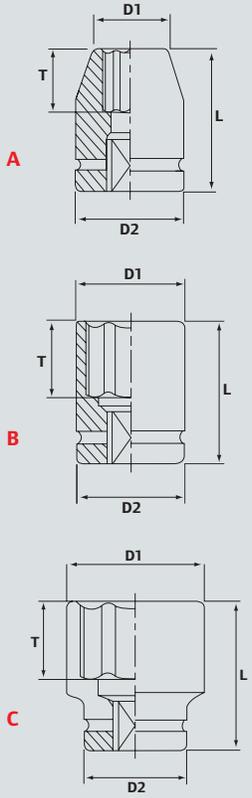


| | | | | | | | |
|-------------|----------|------------|-----------|-----------|------------|---|----------|
| S612H1-316 | 1-3/16" | 2.2 (56) | 3.39 (86) | 0.83 (21) | 3.07 (78) | A | RR10025S |
| S612H1-14 | 1-1/4" | 2.28 (58) | 3.39 (86) | 0.87 (22) | 3.07 (78) | A | RR10025S |
| S612H1-516 | 1-5/16" | 2.36 (60) | 3.39 (86) | 0.87 (22) | 3.07 (78) | A | RR10025S |
| S612H1-38 | 1-3/8" | 2.52 (64) | 3.39 (86) | 0.87 (22) | 3.07 (78) | A | RR10025S |
| S612H1-716 | 1-7/16" | 2.52 (64) | 3.39 (86) | 0.94 (24) | 3.07 (78) | A | RR10025S |
| S612H1-12 | 1-1/2" | 2.6 (66) | 3.39 (86) | 1.02 (26) | 3.15 (80) | A | RR10025S |
| S612H1-916 | 1-9/16" | 2.68 (68) | 3.39 (86) | 1.1 (28) | 3.15 (80) | A | RR10025S |
| S612H1-58 | 1-5/8" | 2.76 (70) | 3.39 (86) | 1.1 (28) | 3.15 (80) | A | RR10025S |
| S612H1-1116 | 1-11/16" | 2.87 (73) | 3.39 (86) | 1.1 (28) | 3.23 (82) | A | RR10025S |
| S612H1-34 | 1-3/4" | 2.95 (75) | 3.39 (86) | 1.18 (30) | 3.31 (84) | A | RR10025S |
| S612H1-1316 | 1-13/16" | 2.99 (76) | 3.39 (86) | 1.18 (30) | 3.31 (84) | A | RR10025S |
| S612H1-78 | 1-7/8" | 3.07 (78) | 3.39 (86) | 1.26 (32) | 3.43 (87) | A | RR10025S |
| S612H1-1516 | 1-15/16" | 3.15 (80) | 3.39 (86) | 1.26 (32) | 3.43 (87) | A | RR10025S |
| S612H2 | 2" | 3.23 (82) | 3.39 (86) | 1.26 (32) | 3.43 (87) | A | RR10025S |
| S612H2-116 | 2-1/16" | 3.27 (83) | 3.39 (86) | 1.34 (34) | 3.43 (87) | A | RR10025S |
| S612H2-18 | 2-1/8" | 3.39 (86) | 3.39 (86) | 1.46 (37) | 3.54 (90) | B | RR10025S |
| S612H2-316 | 2-3/16" | 3.46 (88) | 3.39 (86) | 1.46 (37) | 3.54 (90) | C | RR10025S |
| S612H2-14 | 2-1/4" | 3.54 (90) | 3.39 (86) | 1.54 (39) | 3.74 (95) | C | RR10025S |
| S612H2-516 | 2-5/16" | 3.66 (93) | 3.39 (86) | 1.54 (39) | 3.74 (95) | C | RR10025S |
| S612H2-38 | 2-3/8" | 3.7 (94) | 3.39 (86) | 1.54 (39) | 3.74 (95) | C | RR10025S |
| S612H2-716 | 2-7/16" | 3.78 (96) | 3.39 (86) | 1.65 (42) | 3.94 (100) | C | RR10025S |
| S612H2-12 | 2-1/2" | 3.86 (98) | 3.39 (86) | 1.65 (42) | 3.94 (100) | C | RR10025S |
| S612H2-916 | 2-9/16" | 3.94 (100) | 3.39 (86) | 1.65 (42) | 3.94 (100) | C | RR10025S |
| S612H2-58 | 2-5/8" | 4.02 (102) | 3.39 (86) | 1.81 (46) | 4.13 (105) | C | RR10025S |
| S612H2-1116 | 2-11/16" | 4.09 (104) | 3.39 (86) | 1.81 (46) | 4.13 (105) | C | RR10025S |
| S612H2-34 | 2-3/4" | 4.17 (106) | 3.39 (86) | 1.81 (46) | 4.13 (105) | C | RR10025S |
| S612H2-1316 | 2-13/16" | 4.25 (108) | 3.39 (86) | 1.93 (49) | 4.25 (108) | C | RR10025S |
| S612H2-78 | 2-7/8" | 4.33 (110) | 3.39 (86) | 1.93 (49) | 4.25 (108) | C | RR10025S |
| S612H2-1516 | 2-15/16" | 4.41 (112) | 3.39 (86) | 1.93 (49) | 4.25 (108) | C | RR10025S |
| S612H3 | 3" | 4.45 (113) | 3.39 (86) | 1.93 (49) | 4.25 (108) | C | RR10025S |
| S612H3-116 | 3-1/16" | 4.53 (115) | 3.39 (86) | 2.09 (53) | 4.53 (115) | C | RR10025S |
| S612H3-18 | 3-1/8" | 4.65 (118) | 3.39 (86) | 2.09 (53) | 4.53 (115) | C | RR10025S |
| S612H3-316 | 3-3/16" | 4.72 (120) | 3.39 (86) | 2.09 (53) | 4.53 (115) | C | RR10025S |
| S612H3-14 | 3-1/4" | 4.8 (122) | 3.39 (86) | 2.09 (53) | 4.53 (115) | C | RR10025S |
| S612H3-516 | 3-5/16" | 4.88 (124) | 3.39 (86) | 2.2 (56) | 4.65 (118) | C | RR10025S |

|  6-PT | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|--|-------------|-------------|------------|------------|-----------|------------|------|----------------------------|
| STANDARD (cont'd) | | | | | | | | |
| | S612H3-38 | 3-3/8" | 4.96 (126) | 3.39 (86) | 2.2 (56) | 4.65 (118) | C | RR10025S |
| | S612H3-716 | 3-7/16" | 5.04 (128) | 3.39 (86) | 2.2 (56) | 4.65 (118) | C | RR10025S |
| | S612H3-12 | 3-1/2" | 5.08 (129) | 3.39 (86) | 2.32 (59) | 4.84 (123) | C | RR10025S |
| | S612H3-916 | 3-9/16" | 5.16 (131) | 3.39 (86) | 2.32 (59) | 4.84 (123) | C | RR10025S |
| | S612H3-58 | 3-5/8" | 5.24 (133) | 3.39 (86) | 2.32 (59) | 4.84 (123) | C | RR10025S |
| | S612H3-1116 | 3-11/16" | 5.31 (135) | 3.39 (86) | 2.4 (61) | 4.84 (123) | C | RR10025S |
| | S612H3-34 | 3-3/4" | 5.39 (137) | 3.74 (95) | 2.4 (61) | 4.84 (123) | C | RR10025S |
| | S612H3-1316 | 3-13/16" | 5.39 (137) | 3.74 (95) | 2.56 (65) | 5.12 (130) | C | RR10025S |
| | S612H3-78 | 3-7/8" | 5.67 (144) | 3.74 (95) | 2.56 (65) | 5.12 (130) | C | RR10025S |
| | S612H3-1516 | 3-15/16" | 5.67 (144) | 3.74 (95) | 2.56 (65) | 5.12 (130) | C | RR10025S |
| | S612H4 | 4" | 5.79 (147) | 3.74 (95) | 2.56 (65) | 5.12 (130) | C | RR10025S |
| | S612H4-116 | 4-1/16" | 5.79 (147) | 3.74 (95) | 2.68 (68) | 5.12 (130) | C | RR10025S |
| | S612H4-18 | 4-1/8" | 6.06 (154) | 3.74 (95) | 2.68 (68) | 5.12 (130) | C | RR10025S |
| | S612H4-316 | 4-3/16" | 6.06 (154) | 3.74 (95) | 2.68 (68) | 5.12 (130) | C | RR10025S |
| | S612H4-14 | 4-1/4" | 6.06 (154) | 3.74 (95) | 2.83 (72) | 5.31 (135) | C | RR10025S |
| | S612H4-516 | 4-5/16" | 6.18 (157) | 3.74 (95) | 2.83 (72) | 5.31 (135) | C | RR10025S |
| | S612H4-38 | 4-3/8" | 6.18 (157) | 3.74 (95) | 2.83 (72) | 5.31 (135) | C | RR10025S |
| | S612H4-716 | 4-7/16" | 6.18 (157) | 3.74 (95) | 2.83 (72) | 5.31 (135) | C | RR10025S |
| | S612H4-12 | 4-1/2" | 6.46 (164) | 3.74 (95) | 3.03 (77) | 5.51 (140) | C | RR10025S |
| | S612H4-58 | 4-5/8" | 6.46 (164) | 3.74 (95) | 3.03 (77) | 5.51 (140) | C | RR10025S |
| | S612H4-34 | 4-3/4" | 6.57 (167) | 3.74 (95) | 3.03 (77) | 5.51 (140) | C | RR10025S |
| | S612M30 | 30 mm | 2.2 (56) | 3.39 (86) | 0.83 (21) | 3.07 (78) | A | RR10025S |
| | S612M32 | 32 mm | 2.28 (58) | 3.39 (86) | 0.87 (22) | 3.07 (78) | A | RR10025S |
| | S612M35 | 35 mm | 2.52 (64) | 3.39 (86) | 0.87 (22) | 3.07 (78) | A | RR10025S |
| | S612M36 | 36 mm | 2.52 (64) | 3.39 (86) | 0.94 (24) | 3.07 (78) | A | RR10025S |
| | S612M38 | 38 mm | 2.6 (66) | 3.39 (86) | 1.02 (26) | 3.15 (80) | A | RR10025S |
| | S612M41 | 41 mm | 2.76 (70) | 3.39 (86) | 1.1 (28) | 3.15 (80) | A | RR10025S |
| | S612M46 | 46 mm | 2.99 (76) | 3.39 (86) | 1.18 (30) | 3.31 (84) | A | RR10025S |
| | S612M50 | 50 mm | 3.19 (81) | 3.39 (86) | 1.26 (32) | 3.43 (87) | A | RR10025S |
| | S612M54 | 54 mm | 3.39 (86) | 3.39 (86) | 1.46 (37) | 3.54 (90) | B | RR10025S |
| | S612M55 | 55 mm | 3.43 (87) | 3.39 (86) | 1.46 (37) | 3.54 (90) | C | RR10025S |
| | S612M58 | 58 mm | 3.62 (92) | 3.39 (86) | 1.54 (39) | 3.74 (95) | C | RR10025S |
| | S612M60 | 60 mm | 3.7 (94) | 3.39 (86) | 1.54 (39) | 3.74 (95) | C | RR10025S |
| | S612M62 | 62 mm | 3.78 (96) | 3.39 (86) | 1.65 (42) | 3.94 (100) | C | RR10025S |
| | S612M65 | 65 mm | 3.94 (100) | 3.39 (86) | 1.65 (42) | 3.94 (100) | C | RR10025S |
| | S612M68 | 68 mm | 4.09 (104) | 3.39 (86) | 1.81 (46) | 4.13 (105) | C | RR10025S |
| | S612M70 | 70 mm | 4.17 (106) | 3.39 (86) | 1.81 (46) | 4.13 (105) | C | RR10025S |
| | S612M73 | 73 mm | 4.33 (110) | 3.39 (86) | 1.93 (49) | 4.25 (108) | C | RR10025S |
| | S612M75 | 75 mm | 4.41 (112) | 3.39 (86) | 1.93 (49) | 4.25 (108) | C | RR10025S |



| Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|--------------------------|-------------|------------|------------|-----------|------------|------|----------------------------|
| STANDARD (cont'd) | | | | | | | |
| S612M78 | 78 mm | 4.53 (115) | 3.39 (86) | 2.09 (53) | 4.53 (115) | C | RR10025S |
| S612M80 | 80 mm | 4.69 (119) | 3.39 (86) | 2.09 (53) | 4.53 (115) | C | RR10025S |
| S612M85 | 85 mm | 4.92 (125) | 3.39 (86) | 2.2 (56) | 4.65 (118) | C | RR10025S |
| S612M90 | 90 mm | 5.16 (131) | 3.39 (86) | 2.32 (59) | 4.84 (123) | C | RR10025S |
| S612M95 | 95 mm | 5.39 (137) | 3.74 (95) | 2.4 (61) | 4.84 (123) | C | RR10025S |
| S612M100 | 100 mm | 5.67 (144) | 3.74 (95) | 2.56 (65) | 5.12 (130) | C | RR10025S |
| S612M105 | 105 mm | 6.06 (154) | 3.74 (95) | 2.68 (68) | 5.12 (130) | C | RR10025S |
| S612M110 | 110 mm | 6.18 (157) | 3.74 (95) | 2.83 (72) | 5.31 (135) | C | RR10025S |
| S612M115 | 115 mm | 6.46 (164) | 3.74 (95) | 3.03 (77) | 5.51 (140) | C | RR10025S |
| S612M120 | 120 mm | 6.57 (167) | 3.74 (95) | 3.03 (77) | 5.51 (140) | C | RR10025S |
| S612M125 | 125 mm | 6.85 (174) | 5 (127) | 3.03 (77) | 5.51 (140) | C | RR10035S |
| DEEP | | | | | | | |
| S612H1-58L | 1-5/8" | 2.76 (70) | 3.39 (86) | 1.1 (28) | 4.53 (115) | A | RR10025S |
| S612H1-1116L | 1-11/16" | 2.87 (73) | 3.39 (86) | 1.1 (28) | 4.53 (115) | A | RR10025S |
| S612H1-34L | 1-3/4" | 2.95 (75) | 3.39 (86) | 1.18 (30) | 4.53 (115) | A | RR10025S |
| S612H1-1316L | 1-13/16" | 2.99 (76) | 3.39 (86) | 1.18 (30) | 4.53 (115) | A | RR10025S |
| S612H1-78L | 1-7/8" | 3.07 (78) | 3.39 (86) | 1.26 (32) | 4.53 (115) | A | RR10025S |
| S612H1-1516L | 1-15/16" | 3.15 (80) | 3.39 (86) | 1.26 (32) | 4.53 (115) | A | RR10025S |
| S612H2L | 2" | 3.23 (82) | 3.39 (86) | 1.34 (34) | 5.31 (135) | A | RR10025S |
| S612H2-116L | 2-1/16" | 3.27 (83) | 3.39 (86) | 1.34 (34) | 5.51 (140) | A | RR10025S |
| S612H2-18L | 2-1/8" | 3.39 (86) | 3.39 (86) | 1.46 (37) | 5.51 (140) | B | RR10025S |
| S612H2-316L | 2-3/16" | 3.46 (88) | 3.39 (86) | 1.46 (37) | 5.51 (140) | C | RR10025S |
| S612H2-14L | 2-1/4" | 3.54 (90) | 3.39 (86) | 1.54 (39) | 5.91 (150) | C | RR10025S |
| S612H2-516L | 2-5/16" | 3.66 (93) | 3.39 (86) | 1.54 (39) | 5.91 (150) | C | RR10025S |
| S612H2-38L | 2-3/8" | 3.7 (94) | 3.39 (86) | 1.54 (39) | 5.91 (150) | C | RR10025S |
| S612H2-716L | 2-7/16" | 3.78 (96) | 3.39 (86) | 1.65 (42) | 5.91 (150) | C | RR10025S |
| S612H2-12L | 2-1/2" | 3.86 (98) | 3.39 (86) | 1.65 (42) | 5.91 (150) | C | RR10025S |
| S612H2-916L | 2-9/16" | 3.94 (100) | 3.39 (86) | 1.65 (42) | 5.91 (150) | C | RR10025S |
| S612H2-58L | 2-5/8" | 4.02 (102) | 3.39 (86) | 1.81 (46) | 5.91 (150) | C | RR10025S |
| S612H2-1116L | 2-11/16" | 4.09 (104) | 3.39 (86) | 1.81 (46) | 5.91 (150) | C | RR10025S |
| S612H2-34L | 2-3/4" | 4.17 (106) | 3.39 (86) | 1.81 (46) | 6.3 (160) | C | RR10025S |
| S612H2-1316L | 2-13/16" | 4.25 (108) | 3.39 (86) | 1.93 (49) | 6.3 (160) | C | RR10025S |
| S612H2-78L | 2-7/8" | 4.33 (110) | 3.39 (86) | 1.93 (49) | 6.3 (160) | C | RR10025S |
| S612H2-1516L | 2-15/16" | 4.41 (112) | 3.39 (86) | 1.93 (49) | 6.69 (170) | C | RR10025S |
| S612H3L | 3" | 4.45 (113) | 3.39 (86) | 1.93 (49) | 6.69 (170) | C | RR10025S |
| S612H3-116L | 3-1/16" | 4.53 (115) | 3.39 (86) | 2.09 (53) | 6.69 (170) | C | RR10025S |
| S612H3-18L | 3-1/8" | 4.65 (118) | 3.39 (86) | 2.09 (53) | 6.69 (170) | C | RR10025S |
| S612H3-38L | 3-3/8" | 4.96 (126) | 3.39 (86) | 2.2 (56) | 6.69 (170) | C | RR10025S |
| S612H3-12L | 3-1/2" | 5.08 (129) | 3.39 (86) | 2.32 (59) | 6.69 (170) | C | RR10025S |
| S612H3-916L | 3-9/16" | 5.16 (131) | 3.39 (86) | 2.32 (59) | 6.69 (170) | C | RR10025S |



|  6-PT | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring |
|--|--------------|-------------|------------|------------|-----------|------------|------|----------------------------|
| DEEP (cont'd) | | | | | | | | |
| | S612H3-34L | 3-3/4" | 5.39 (137) | 3.74 (95) | 2.4 (61) | 7.09 (180) | C | RR10025S |
| | S612H3-78L | 3-7/8" | 5.67 (144) | 3.74 (95) | 2.56 (65) | 7.09 (180) | C | RR10025S |
| | S612H3-1516L | 3-15/16" | 5.67 (144) | 3.74 (95) | 2.56 (65) | 7.48 (190) | C | RR10025S |
| | S612H4L | 4" | 5.79 (147) | 3.74 (95) | 2.56 (65) | 7.48 (190) | C | RR10025S |
| | S612H4-116L | 4-1/16" | 5.79 (147) | 3.74 (95) | 2.68 (68) | 7.48 (190) | C | RR10025S |
| | S612H4-18L | 4-1/8" | 6.06 (154) | 3.74 (95) | 2.68 (68) | 7.48 (190) | C | RR10025S |
| | S612H4-316L | 4-3/16" | 6.06 (154) | 3.74 (95) | 2.68 (68) | 7.48 (190) | C | RR10025S |
| | S612H4-14L | 4-1/4" | 6.06 (154) | 3.74 (95) | 2.83 (72) | 7.48 (190) | C | RR10025S |
| | S612H4-516L | 4-5/16" | 6.18 (157) | 3.74 (95) | 2.83 (72) | 7.87 (200) | C | RR10025S |
| | S612H4-38L | 4-3/8" | 6.18 (157) | 3.74 (95) | 2.83 (72) | 7.87 (200) | C | RR10025S |
| | S612H4-716L | 4-7/16" | 6.18 (157) | 3.74 (95) | 2.83 (72) | 7.87 (200) | C | RR10025S |
| | S612H4-12L | 4-1/2" | 6.46 (164) | 3.74 (95) | 3.03 (77) | 8.27 (210) | C | RR10025S |
| | S612H4-58L | 4-5/8" | 6.46 (164) | 3.74 (95) | 3.03 (77) | 8.27 (210) | C | RR10025S |
| | S612H4-34L | 4-3/4" | 6.57 (167) | 3.74 (95) | 3.03 (77) | 8.27 (210) | C | RR10025S |
| | S612M41L | 41 mm | 2.76 (70) | 3.39 (86) | 1.1 (28) | 4.53 (115) | A | RR10025S |
| | S612M46L | 46 mm | 2.99 (76) | 3.39 (86) | 1.18 (30) | 4.53 (115) | A | RR10025S |
| | S612M50L | 50 mm | 3.19 (81) | 3.39 (86) | 1.34 (34) | 5.31 (135) | A | RR10025S |
| | S612M54L | 54 mm | 3.39 (86) | 3.39 (86) | 1.46 (37) | 5.51 (140) | B | RR10025S |
| | S612M55L | 55 mm | 3.43 (87) | 3.39 (86) | 1.46 (37) | 5.51 (140) | C | RR10025S |
| | S612M57L | 57 mm | 3.54 (90) | 3.39 (86) | 1.54 (39) | 5.91 (150) | C | RR10025S |
| | S612M60L | 60 mm | 3.7 (94) | 3.39 (86) | 1.54 (39) | 5.91 (150) | C | RR10025S |
| | S612M62L | 62 mm | 3.78 (96) | 3.39 (86) | 1.65 (42) | 5.91 (150) | C | RR10025S |
| | S612M65L | 65 mm | 3.94 (100) | 3.39 (86) | 1.65 (42) | 5.91 (150) | C | RR10025S |
| | S612M70L | 70 mm | 4.17 (106) | 3.39 (86) | 1.81 (46) | 6.3 (160) | C | RR10025S |
| | S612M73L | 73 mm | 4.33 (110) | 3.39 (86) | 1.93 (49) | 6.3 (160) | C | RR10025S |
| | S612M75L | 75 mm | 4.41 (112) | 3.39 (86) | 1.93 (49) | 6.69 (170) | C | RR10025S |
| | S612M76L | 76 mm | 4.45 (113) | 3.39 (86) | 1.93 (49) | 6.69 (170) | C | RR10025S |
| | S612M78L | 78 mm | 4.53 (115) | 3.39 (86) | 2.09 (53) | 6.69 (170) | C | RR10025S |
| | S612M80L | 80 mm | 4.69 (119) | 3.39 (86) | 2.09 (53) | 6.69 (170) | C | RR10025S |
| | S612M85L | 85 mm | 4.92 (125) | 3.39 (86) | 2.2 (56) | 6.69 (170) | C | RR10025S |
| | S612M90L | 90 mm | 5.16 (131) | 3.39 (86) | 2.32 (59) | 6.69 (170) | C | RR10025S |
| | S612M95L | 95 mm | 5.39 (137) | 3.74 (95) | 2.4 (61) | 7.09 (180) | C | RR10025S |
| | S612M100L | 100 mm | 5.67 (144) | 3.74 (95) | 2.56 (65) | 7.48 (190) | C | RR10025S |
| | S612M105L | 105 mm | 6.06 (154) | 3.74 (95) | 2.68 (68) | 7.48 (190) | C | RR10025S |
| | S612M110L | 110 mm | 6.18 (157) | 3.74 (95) | 2.83 (72) | 7.87 (200) | C | RR10025S |
| | S612M115L | 115 mm | 6.46 (164) | 3.74 (95) | 3.03 (77) | 8.27 (210) | C | RR10025S |
| | S612M120L | 120 mm | 6.57 (167) | 3.74 (95) | 3.03 (77) | 8.27 (210) | C | RR10025S |

Accessories

| | Description | Output Size | Recommended Retaining Ring |
|----------------|--------------------------------------|-------------|----------------------------|
| A12F8M | 1-1/2" female to 1" male adapter | 1" | RR10025S |
| A12F20M | 1-1/2" female to 2-1/2" male adapter | 2-1/2" | RR10025S |
| J12 | Universal joint | #5 Spline | RR10025S |
| E125H | 5" Extension | 1-1/2" | RR10025S |
| E1210H | 10" Extension | 1-1/2" | RR10025S |
| E1212H | 12" Extension | 1-1/2" | RR10025S |
| E1220H | 20" Extension | 1-1/2" | RR10025S |

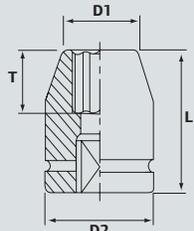
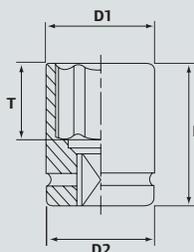
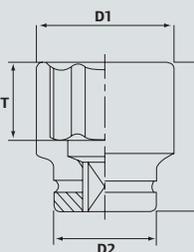


Universal Joint

2-1/2" Square Drive Impact Sockets



Individuals

|  6-PT | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring or O-Ring / Pin |
|---|-------------|-------------|---------------|---------------|--------------|--------------|-------------------|--|
| STANDARD | | | | | | | | |
|     | S620H3 | 3" | 4.72 (120) | 5 (127) | 1.77 (45) | 5.51 (140) | A | RR10035S |
| | S620H3-18 | 3-1/8" | 4.88 (124) | 5 (127) | 1.77 (45) | 5.51 (140) | A | RR10035S |
| | S620H3-14 | 3-1/4" | 5 (127) | 5 (127) | 1.77 (45) | 5.51 (140) | B | RR10035S |
| | S620H3-38 | 3-3/8" | 5.16 (131) | 5 (127) | 2.05 (52) | 5.51 (140) | C | RR10035S |
| | S620H3-12 | 3-1/2" | 5.31 (135) | 5 (127) | 2.05 (52) | 5.51 (140) | C | RR10035S |
| | S620H3-58 | 3-5/8" | 5.47 (139) | 5 (127) | 2.05 (52) | 5.71 (145) | C | RR10035S |
| | S620H3-34 | 3-3/4" | 5.63 (143) | 5 (127) | 2.05 (52) | 5.71 (145) | C | RR10035S |
| | S620H3-78 | 3-7/8" | 5.79 (147) | 5 (127) | 2.28 (58) | 5.91 (150) | C | RR10035S |
| | S620H4 | 4" | 5.94 (151) | 5 (127) | 2.28 (58) | 5.91 (150) | C | RR10035S |
| | S620H4-18 | 4-1/8" | 6.1 (155) | 5 (127) | 2.28 (58) | 6.1 (155) | C | RR10035S |
| | S620H4-14 | 4-1/4" | 6.26 (159) | 5 (127) | 2.36 (60) | 6.3 (160) | C | RR10035S |
| | S620H4-38 | 4-3/8" | 6.42 (163) | 5 (127) | 2.44 (62) | 6.5 (165) | C | RR10035S |
| | S620H4-12 | 4-1/2" | 6.57 (167) | 5 (127) | 2.44 (62) | 6.5 (165) | C | RR10035S |
| | S620H4-58 | 4-5/8" | 6.77 (172) | 5 (127) | 2.64 (67) | 6.69 (170) | C | RR10035S |
| | S620H4-34 | 4-3/4" | 6.93 (176) | 5 (127) | 2.64 (67) | 6.69 (170) | C | RR10035S |
| | S620H4-78 | 4-7/8" | 7.24 (184) | 5 (127) | 2.83 (72) | 6.89 (175) | C | RR10035S |
| | S620H5 | 5" | 7.24 (184) | 5 (127) | 2.83 (72) | 6.89 (175) | C | RR10035S |
| | S620H5-18 | 5-1/8" | 7.36 (187) | 5.98 (152) | 2.83 (72) | 6.89 (175) | C | 588-216 & 588-215 |
| | S620H5-14 | 5-1/4" | 7.64 (194) | 5.98 (152) | 2.83 (72) | 6.89 (175) | C | 588-216 & 588-215 |
| | S620H5-38 | 5-3/8" | 7.76 (197) | 5.98 (152) | 3.03 (77) | 7.09 (180) | C | 588-216 & 588-215 |
| | S620H5-12 | 5-1/2" | 8.03 (204) | 5.98 (152) | 3.03 (77) | 7.09 (180) | C | 588-216 & 588-215 |
| | S620H5-58 | 5-5/8" | 8.15 (207) | 5.98 (152) | 3.27 (83) | 7.28 (185) | C | 588-216 & 588-215 |
| | S620H5-34 | 5-3/4" | 8.43 (214) | 5.98 (152) | 3.27 (83) | 7.28 (185) | C | 588-216 & 588-215 |
| | S620H5-78 | 5-7/8" | 8.43 (214) | 5.98 (152) | 3.27 (83) | 7.28 (185) | C | 588-216 & 588-215 |
| | S620H6 | 6" | 8.54 (217) | 5.98 (152) | 3.27 (83) | 7.28 (185) | C | 588-216 & 588-215 |
| | S620H6-18 | 6-1/8" | 8.82 (224) | 5.98 (152) | 3.54 (90) | 7.48 (190) | C | 588-216 & 588-215 |
| | S620H6-14 | 6-1/4" | 8.94 (227) | 5.98 (152) | 3.54 (90) | 7.48 (190) | C | 588-216 & 588-215 |
| | S620H6-38 | 6-3/8" | 9.21 (234) | 5.98 (152) | 3.74 (95) | 7.68 (195) | C | 588-216 & 588-215 |
| | S620H6-12 | 6-1/2" | 9.21 (234) | 5.98 (152) | 3.74 (95) | 7.68 (195) | C | 588-216 & 588-215 |
| | S620H6-58 | 6-5/8" | 9.33 (237) | 5.98 (152) | 3.74 (95) | 7.68 (195) | C | 588-216 & 588-215 |
| | S620H6-34 | 6-3/4" | 9.61 (244) | 5.98 (152) | 3.74 (95) | 7.68 (195) | C | 588-216 & 588-215 |
| | S620H6-78 | 6-7/8" | 9.72 (247) | 5.98 (152) | 3.94 (100) | 7.87 (200) | C | 588-216 & 588-215 |
| | S620H7 | 7" | 10 (254) | 5.98 (152) | 3.94 (100) | 7.87 (200) | C | 588-216 & 588-215 |
| S620H7-12 | 7-1/2" | 10.39 (264) | 5.98 (152) | 4.13 (105) | 8.27 (210) | C | 588-216 & 588-215 | |
| S620H7-58 | 7-5/8" | 10.51 (267) | 5.98 (152) | 4.13 (105) | 8.27 (210) | C | 588-216 & 588-215 | |

|  6-PT | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type | Recommended Retaining Ring or O-Ring / Pin |
|--|-------------|-------------|-------------|------------|------------|------------|------|--|
| STANDARD (cont'd) | | | | | | | | |
| | S620H7-78 | 7-7/8" | 10.79 (274) | 5.98 (152) | 4.33 (110) | 8.66 (220) | C | 588-216 & 588-215 |
| | S620H8 | 8" | 10.91 (277) | 5.98 (152) | 4.33 (110) | 8.66 (220) | C | 588-216 & 588-215 |
| | S620M75 | 75 mm | 4.65 (118) | 5 (127) | 1.65 (42) | 5.51 (140) | A | RR10035S |
| | S620M76 | 76 mm | 4.8 (122) | 5 (127) | 1.77 (45) | 5.51 (140) | A | RR10035S |
| | S620M80 | 80 mm | 4.88 (124) | 5 (127) | 1.77 (45) | 5.51 (140) | B | RR10035S |
| | S620M85 | 85 mm | 5.12 (130) | 5 (127) | 2.05 (52) | 5.51 (140) | C | RR10035S |
| | S620M90 | 90 mm | 5.35 (136) | 5 (127) | 2.05 (52) | 5.71 (145) | C | RR10035S |
| | S620M95 | 95 mm | 5.63 (143) | 5 (127) | 2.05 (52) | 5.71 (145) | C | RR10035S |
| | S620M100 | 100 mm | 5.87 (149) | 5 (127) | 2.28 (58) | 5.91 (150) | C | RR10035S |
| | S620M105 | 105 mm | 6.1 (155) | 5 (127) | 2.28 (58) | 6.1 (155) | C | RR10035S |
| | S620M110 | 110 mm | 6.34 (161) | 5 (127) | 2.36 (60) | 6.3 (160) | C | RR10035S |
| | S620M115 | 115 mm | 6.57 (167) | 5 (127) | 2.44 (62) | 6.5 (165) | C | RR10035S |
| | S620M120 | 120 mm | 6.93 (176) | 5 (127) | 2.64 (67) | 6.69 (170) | C | RR10035S |
| | S620M125 | 125 mm | 7.24 (184) | 5 (127) | 2.83 (72) | 6.89 (175) | C | RR10035S |
| | S620M130 | 130 mm | 7.36 (187) | 5.98 (152) | 2.83 (72) | 6.89 (175) | C | 588-216 & 588-215 |
| | S620M135 | 135 mm | 7.64 (194) | 5.98 (152) | 3.03 (77) | 7.09 (180) | C | 588-216 & 588-215 |
| | S620M140 | 140 mm | 8.03 (204) | 5.98 (152) | 3.03 (77) | 7.09 (180) | C | 588-216 & 588-215 |
| | S620M145 | 145 mm | 8.15 (207) | 5.98 (152) | 3.27 (83) | 7.28 (185) | C | 588-216 & 588-215 |
| | S620M150 | 150 mm | 8.43 (214) | 5.98 (152) | 3.27 (83) | 7.28 (185) | C | 588-216 & 588-215 |
| | S620M155 | 155 mm | 8.82 (224) | 5.98 (152) | 3.54 (90) | 7.48 (190) | C | 588-216 & 588-215 |
| | S620M160 | 160 mm | 8.94 (227) | 5.98 (152) | 3.54 (90) | 7.48 (190) | C | 588-216 & 588-215 |
| | S620M165 | 165 mm | 9.21 (234) | 5.98 (152) | 3.74 (95) | 7.68 (195) | C | 588-216 & 588-215 |
| | S620M170 | 170 mm | 9.61 (244) | 5.98 (152) | 3.74 (95) | 7.68 (195) | C | 588-216 & 588-215 |
| | S620M175 | 175 mm | 9.72 (247) | 5.98 (152) | 3.94 (100) | 7.87 (200) | C | 588-216 & 588-215 |
| | S620M180 | 180 mm | 10 (254) | 5.98 (152) | 3.94 (100) | 7.87 (200) | C | 588-216 & 588-215 |
| | S620M185 | 185 mm | 10.12 (257) | 5.98 (152) | 4.13 (105) | 8.27 (210) | C | 588-216 & 588-215 |
| | S620M190 | 190 mm | 10.39 (264) | 5.98 (152) | 4.13 (105) | 8.27 (210) | C | 588-216 & 588-215 |
| | S620M200 | 200 mm | 10.79 (274) | 5.98 (152) | 4.33 (110) | 8.66 (220) | C | 588-216 & 588-215 |

Accessories

| | Description | Output Size | Recommended Retaining Ring |
|----------------|--------------------------------------|-------------|----------------------------|
| A20F12M | 2-1/2" female to 1-1/2" male adapter | 1-1/2" | R10035S |
| E205H | 5" Extension | 2-1/2" | R10035S |
| E2010H | 10" Extension | 2-1/2" | R10035S |
| E2020H | 20" Extension | 2-1/2" | R10035S |

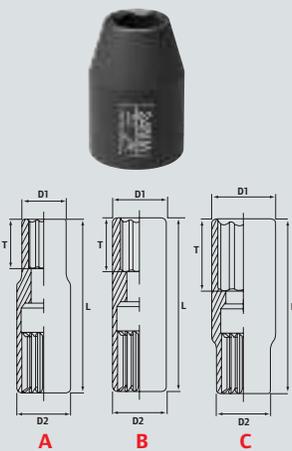


Extension

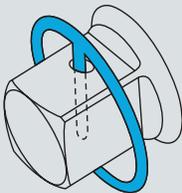
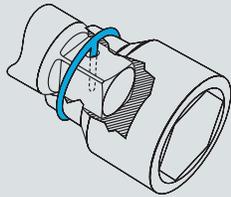
#5 Spline Square Drive Impact Sockets



Individuals

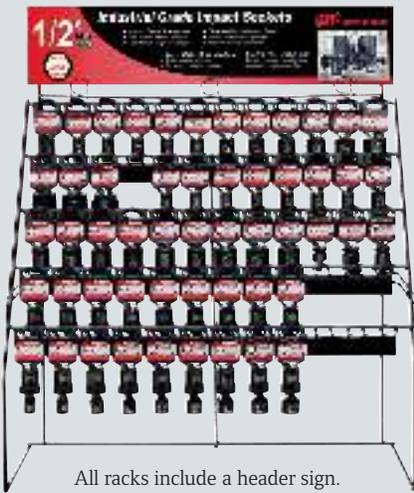
|  6-PT | Part Number | Output Size | D1 in (mm) | D2 in (mm) | T in (mm) | L in (mm) | Type |
|--|---|-------------|---------------|---------------|--------------|--------------|------|
| STANDARD | | | | | | | |
|  | S65SH1-116 | 1-1/16" | 1.89 (48) | 2.17 (55) | 0.94 (24) | 3.15 (80) | A |
| | S65SH1-118 | 1-1/8" | 1.89 (48) | 2.17 (55) | 0.94 (24) | 3.15 (80) | A |
| | S65SH1-114 | 1-1/4" | 2.17 (55) | 2.17 (55) | 0.94 (24) | 3.15 (80) | B |
| | S65SM33 | 33 mm | 2.17 (55) | 2.17 (55) | 0.94 (24) | 3.15 (80) | B |
| | S65SM35 | 35 mm | 2.24 (57) | 2.17 (55) | 0.94 (24) | 3.15 (80) | C |
| | S65SM38 | 38 mm | 2.36 (60) | 2.17 (55) | 0.94 (24) | 3.15 (80) | C |
| | S65SM41 | 41 mm | 2.64 (67) | 2.17 (55) | 0.94 (24) | 3.15 (80) | C |
| | S65SH1-34 | 1-3/4" | 2.87 (73) | 2.56 (65) | 1.5 (38) | 3.15 (80) | C |
| | S65SH1-12 | 1-1/2" | 2.36 (60) | 2.17 (55) | 0.94 (24) | 3.15 (80) | C |
| | S65SH78 | 7/8" | 1.73 (44) | 2.17 (55) | 0.94 (24) | 3.15 (80) | A |
| | S65SH1516 | 15/16" | 1.73 (44) | 2.17 (55) | 0.94 (24) | 3.15 (80) | A |
| | S65SH1 | 1" | 1.81 (46) | 2.17 (55) | 0.94 (24) | 3.15 (80) | A |
| | S65SH1-316 | 1-3/16" | 2.01 (51) | 2.17 (55) | 0.94 (24) | 3.15 (80) | A |
| |  4-PT | | | | | | |
| STANDARD | | | | | | | |
| | S45SM17 | 17 mm | 1.73 (44) | 2.17 (55) | 0.94 (24) | 3.15 (80) | A |
| | S45SM21 | 21 mm | 1.73 (44) | 2.17 (55) | 0.94 (24) | 3.15 (80) | A |
| | S45SH1316 | 13/16" | 1.73 (44) | 2.17 (55) | 0.94 (24) | 3.15 (80) | A |
| | S45SH1516 | 15/16" | 1.73 (44) | 2.17 (55) | 0.94 (24) | 3.15 (80) | A |

Retaining Rings



| Part Number | Quantity | Internal in (mm) | Material |
|-------------|----------|-------------------------|------------------------|
| RR10001 | 10 | 3/5" (15) | Plastic |
| RR10002 | 10 | 2/3" (17) | Plastic |
| RR10003 | 10 | 3/4" (19) | Plastic |
| RR10004 | 10 | 4/5" (20) | Plastic |
| RR10011 | 10 | 5/6" (20.8) | Plastic |
| RR10005 | 10 | 6/7" (22) | Plastic |
| RR10006 | 10 | 1" (24) | Plastic |
| RR10008 | 10 | 1-1/7" (29) | Plastic |
| RR10013 | 10 | 1-1/5" (30.5) | Plastic |
| RR10005S | 1 | 1-1/4" (32) | Plastic & Steel insert |
| RR10009 | 10 | 1-2/7" (33) | Plastic |
| RR10032S | 1 | 1-3/7" (36.5) | Plastic & Steel insert |
| RR10010 | 10 | 1-1/2" (37) | Plastic |
| RR10034S | 1 | 1-5/8" (41.5) | Plastic & Steel insert |
| RR10008S | 1 | 1-3/4" (44.5) | Plastic & Steel insert |
| RR10010S | 1 | 2" (49) | Plastic & Steel insert |
| RR10015S | 1 | 2-1/8" - 2-1/4" (54-57) | Plastic & Steel insert |
| RR10017S | 1 | 2-1/2" (63.5) | Plastic & Steel insert |
| RR10019S | 1 | 2-2/3" (67) | Plastic & Steel insert |
| RR10020S | 1 | 3" (76) | Plastic & Steel insert |
| RR10025S | 1 | 3-2/5" (86) | Plastic & Steel insert |
| RR10030S | 1 | 3-7/8" (98.5) | Plastic & Steel insert |
| RR10035S | 1 | 4-3/8" (111) | Plastic & Steel insert |

Industrial Grade Impact Socket Displays

| | Part Number | Description | Dimensions (H x W x D) | Weight (lb) |
|--|---------------|---|------------------------|-------------|
| <p>Ingersoll Rand offers an extensive line of display racks to enhance your P.O.P. sales. Each display comes with an array of sockets and accessories for available drive sizes. Details of what is included with each display rack can be found in the Socket Display catalog (IRITS-1107-047) or at ingersollrandproducts.com/accessories.</p>  <p>All racks include a header sign.</p> | SD-38S | 3/8" Drive standard impact sockets | 22" x 24" x 16" | 23 |
| | SD-38D | 3/8" Drive deep impact sockets | 22" x 24" x 16" | 42 |
| | SD-38C | 3/8" Drive combo impact sockets | 22" x 24" x 16" | 32 |
| | SD-12S | 1/2" Drive standard impact sockets | 22" x 24" x 16" | 39 |
| | SD-12D | 1/2" Drive deep impact sockets | 22" x 24" x 16" | 66 |
| | SD-12C | 1/2" Drive combo impact sockets | 22" x 24" x 16" | 66 |
| | SD-34 | 3/4" Drive standard & deep impact sockets | 27.25" x 24.5" x 2" | 75 |
| | SD-1 | 1" Drive standard & deep impact sockets | 27.25" x 24.5" x 2" | 105 |

Versatile displays mount on pegboard or can be used as a freestanding counter display as shown!

Pneumatic Tool Steels & Accessories



Pavement Breaker & Digger Steels

Choose from a complete line of tool steels for your pavement breakers, with products for many applications including concrete, asphalt, excavation, and general demolition.



| 7/8" x 3-1/4" | 1" x 4-1/4" | 1-1/8" x 6" | 1-1/4" x 6" |
|---------------|-------------|-------------|-------------|
| | | | |

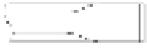
Moil Point



General demolition

| Hex Shank Size | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|-----------------------------------|---------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| MOIL POINT — STANDARD-DUTY | | | | | | | | |
| 14" | 50050269 | 3.25 | 50050368 | 4.5 | 50050475 | 6 | 50055680 | 7.5 |
| 18" | 50050277 | 4 | 50050376 | 5.5 | 50055524 | 7.25 | 50055698 | 9 |
| 24" | 50050285 | 5.25 | 50050392 | 6.75 | 50055540 | 9.5 | 50055714 | 11.25 |
| 36" | 51305860 | 7.5 | 45512563 | 10 | 50055565 | 13.25 | 50055730 | 15.75 |
| 48" | 45512621 | 9.75 | 45512571 | 13 | 50055573 | 17 | 50055748 | 20.5 |
| 60" | 45512639 | 12 | 45512589 | 15.75 | 50055581 | 20.5 | 50055755 | 25 |
| 72" | 45512647 | 14.25 | 45512597 | 18.75 | 50055599 | 24 | 50198993 | 29.5 |
| 84" | - | - | 45512605 | 21.75 | 45512514 | 28 | 45512688 | 34 |
| 96" | - | - | 45512613 | 24.5 | 45512522 | 31.75 | 45512696 | 38.75 |
| 120" | - | - | 45512530 | 30.5 | 45512480 | 39.75 | 45512654 | 48.5 |
| 144" | - | - | 45512548 | 36.75 | 45512498 | 47.5 | 45512662 | 58.25 |
| 168" | - | - | 45512555 | 42.75 | 45512506 | 55.5 | 45512670 | 68 |
| MOIL POINT — SUPER-DUTY | | | | | | | | |
| 11-1/4" | 22041495 | 3.5 | 22041057 | 4 | 22041073 | 6.5 | 22041099 | 7.5 |
| 14-1/4" | 22041602 | 3.75 | 22041065 | 5.25 | 22041081 | 6.75 | 22041107 | 8 |

1" Narrow Chisel



General demolition

| Hex Shank Size | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|--|---------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 1" NARROW CHISELS — STANDARD-DUTY | | | | | | | | |
| 14" | 50199207 | 3.25 | 50197805 | 4.5 | 50197904 | 6 | 50196385 | 7.5 |
| 18" | 50199215 | 4 | 50197821 | 5.5 | 50197912 | 7.25 | 50196401 | 9 |
| 24" | 50199223 | 5.25 | 45510245 | 6.75 | 50197938 | 9.5 | 50196419 | 11.25 |
| 36" | 45510682 | 7.5 | 45510252 | 10 | 51298107 | 13.25 | 51299477 | 15.75 |
| 48" | 45510690 | 9.75 | 45510260 | 13 | 50197979 | 17 | 51299485 | 20.5 |
| 60" | 45510708 | 12 | 45510278 | 15.75 | 50197987 | 20.5 | 51299048 | 25 |
| 72" | 45510716 | 14.25 | 45510286 | 18.75 | 50197995 | 24 | 51299493 | 29.5 |
| 84" | – | – | 45510294 | 21.75 | 45510385 | 28 | 45509965 | 34 |
| 96" | – | – | 45510302 | 24.5 | 45510393 | 31.75 | 45509973 | 38.75 |
| 120" | – | – | 45510211 | 30.5 | 45510401 | 39.75 | 45509932 | 48.5 |
| 144" | – | – | 45510229 | 36.75 | 45510369 | 47.5 | 45509940 | 58 |
| 168" | – | – | 45510237 | 42.75 | 45510377 | 55.5 | 45509957 | 67.75 |
| 1" NARROW CHISELS — SUPER-DUTY | | | | | | | | |
| 11-1/4" | 22041503 | 3.5 | 22041115 | 4 | 22041131 | 6.5 | 22041156 | 7.5 |
| 14-1/4" | 22041610 | 3.75 | 22041123 | 5.25 | 22041149 | 6.75 | 22041164 | 8 |

3" Chisel



Concrete demolition and asphalt cutting

| Hex Shank Size | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|---------------------|---------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 3" CHISELS | | | | | | | | |
| 14" | 50195288 | 3.25 | 50195320 | 4.5 | 50114883 | 6 | 50193879 | 7.5 |
| 18" | 50195296 | 4 | 50195338 | 5.5 | 50193754 | 7.25 | 50193887 | 9 |
| 24" | 45510542 | 5.5 | 50195353 | 6.75 | 50193747 | 9.75 | 50193903 | 12.25 |
| 36" | 45510559 | 8 | 50195361 | 10 | 45510500 | 13.5 | 45510484 | 16.75 |
| 48" | 45510567 | 10 | 50195379 | 12.75 | 45510518 | 17.25 | 50193937 | 21.25 |
| 60" | 45510575 | 12.25 | 45510476 | 16.5 | 45510526 | 21 | 45510492 | 26 |
| 72" | 45510583 | 14 | 51304574 | 19.25 | 45510534 | 24.75 | 50191790 | 30 |

1-1/2" Super Cut Chisel



Specially designed for breaking concrete

| Hex Shank Size | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|--------------------------------|---------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 1-1/2" SUPER CUT CHISEL | | | | | | | | |
| 16" | – | – | 22040463 | 4.5 | 22040471 | 8 | 22040489 | 9.25 |

3-3/4" Combo Cutter



Great for manhole reconstruction

| Hex Shank Size | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|----------------------------|---------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 3-3/4" COMBO CUTTER | | | | | | | | |
| 12" | - | - | - | - | 22040612 | 8.5 | 22040620 | 9.5 |

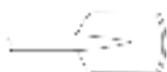
5" Asphalt Cutter



Asphalt cutting and removal

| Hex Shank Size | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|--------------------------|---------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 5" ASPHALT CUTTER | | | | | | | | |
| 12" | 22040935 | 6.75 | 50190404 | 7.25 | 50185982 | 8.5 | 50185990 | 9.25 |

5-1/2" Clay Spade



Trench digging and trimming

| Hex Shank Size | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|--------------------------|---------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 5-1/2" CLAY SPADE | | | | | | | | |
| 16" | 50189596 | 7 | 50189554 | 7.25 | 50189562 | 8.5 | 50189570 | 11 |

3" Digging Chisel



Digging and deeper asphalt cutting

| Hex Shank Size | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|--------------------------|---------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 3" DIGGING CHISEL | | | | | | | | |
| 16" | 22040968 | 7.5 | 22040976 | 8 | 22040984 | 10 | 50186014 | 11.5 |

Frost Wedge



Used for breaking frozen ground

| Hex Shank Size | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|---------------------|---------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| FROST WEDGE | | | | | | | | |
| 16-1/2" | FW40810 | 7 | FW40820 | 10 | FW40830 | 13 | FW40840 | 18 |

Bushing Tool



Concrete surface removal or roughing

| Hex Shank Size | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|---------------------|---------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| BUSHING TOOL | | | | | | | | |
| 9" | BT41310 | 5 | BT41320 | 6.5 | BT41330 | 7 | BT41340 | 7.25 |

Concrete Breaker



Breaking up concrete; driven into drilled hole

| Hex Shank Size | | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|-------------------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | |
| CONCRETE BREAKER | | | | | | | | | |
| 14-1/2" | - | - | - | - | CB40960 | 11.25 | CB40970 | 12.25 | |

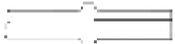
1" Pipe Driver



Driving steel pipe up to 1" O.D.

| Hex Shank Size | | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|-----------------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | |
| 1" PIPE DRIVER | | | | | | | | | |
| 11" | - | - | - | - | 22040505 | 5 | 22040513 | 6.5 | |

1-1/2" Pipe Driver



Driving steel pipe up to 1-1/2" O.D.

| Hex Shank Size | | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|---------------------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | |
| 1-1/2" PIPE DRIVER | | | | | | | | | |
| 11" | - | - | - | - | 22040547 | 7 | 22040554 | 7.5 | |

Ground Rod Driver



Driving steel rod up to 1" O.D.

| Hex Shank Size | | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|--------------------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | |
| GROUND ROD DRIVER | | | | | | | | | |
| 9" | - | - | 22040588 | 5.25 | 22040596 | 6.75 | 22040604 | 7.25 | |

3-Piece Sign Post Driver



Includes shank, post block, and 3-1/2" driver

| Hex Shank Size | | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|---------------------------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | |
| 3-PIECE SIGN POST DRIVER | | | | | | | | | |
| 7-3/4" | 22040778 | 5 | 22040943 | 5.25 | 22041008 | 5.25 | 22041016 | 6 | |

Detachable Shank



Used with tent stake drivers and tamping pads

| Hex Shank Size | | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|-------------------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | |
| DETACHABLE SHANK | | | | | | | | | |
| 9" | 22040927 | 4 | 50187830 | 4.5 | 50187848 | 5.25 | 50187855 | 6 | |

2" Tent Stake Driver



Used with detachable shank

| Hex Shank Size | | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|-----------------------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | |
| 2" TENT STAKE DRIVER | | | | | | | | | |
| N/A | 22040638 | 3.5 | 22040638 | 3.5 | 22040638 | 3.5 | 22040638 | 3.5 | |

2-1/2" Tent Stake Driver



Used with detachable shank

| Hex Shank Size | | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|---------------------------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | |
| 2-1/2" TENT STAKE DRIVER | | | | | | | | | |
| N/A | 22040646 | 4 | 22040646 | 4 | 22040646 | 4 | 22040646 | 4 | |

6" Tamping Pad Square



Tamping and backfilling; used with detachable shank

| Hex Shank Size | | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|------------------------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | |
| 6" TAMPING PAD SQUARE | | | | | | | | | |
| N/A | 51305894 | 10.5 | 51305894 | 10.5 | 51305894 | 10.5 | 51305894 | 10.5 | |

8" Tamping Pad Square



Tamping and backfilling; used with detachable shank

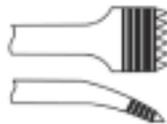
| Hex Shank Size | | 7/8" x 3-1/4" | | 1" x 4-1/4" | | 1-1/8" x 6" | | 1-1/4" x 6" | |
|------------------------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | |
| 8" TAMPING PAD SQUARE | | | | | | | | | |
| N/A | 50187897 | 14.5 | 50187897 | 14.5 | 50187897 | 14.5 | 50187897 | 14.5 | |

Plain-face



| Hex Shank Size 1" x 4-1/4" | | | | | |
|----------------------------|---------------|----|--------|-----------|---|
| Part Number | Dimensions in | | | Weight lb | Description |
| | A | B | C | | |
| PLAIN-FACE | | | | | |
| 45512720 | 24" | 3" | 3/8" | 5.25 | For spot-tamping and low lifts |
| 45512738 | 24" | 3" | 5/8" | 6.5 | For rock ballast of 29 mesh or larger |
| 45512746 | 24" | 3" | 7/8" | 8 | For small rock ballast, gravel, and slag |
| 45512712 | 24" | 3" | 3/4" | 7.25 | For dirt, cinder, gravel, sand, or chat ballast |
| 45512704 | 24" | 3" | 1-1/8" | 8 | For dirt, cinder, gravel, sand, or chat ballast |

Tooth-face



| Hex Shank Size 1" x 4-1/4" | | | | | |
|----------------------------|---------------|----|------|-----------|-------------------|
| Part Number | Dimensions in | | | Weight lb | Description |
| | A | B | C | | |
| TOOTH-FACE | | | | | |
| 45513231 | 24" | 3" | 5/8" | 7.5 | For stone ballast |



Jackhammer & Rockdrill Rods & Bits

Our carbide-tipped drill steels are available in diameters from 5/8" to 1-5/8" to meet all of your drilling needs. Our complete range of shank sizes lets you use Ingersoll Rand drill steels with virtually any jackhammer or rockdrill.



| 7/8" x 3-1/4" | 7/8" x 4-1/4" | 1" x 4-1/4" |
|---------------|---------------|-------------|
| | | |

Jackhammer Rods



Hexagon shank whirlbits carbide-tipped drill steels

| Hex Shank Size | | 7/8" x 3-1/4" | | 7/8" x 4-1/4" | | 1" x 4-1/4" | | |
|---|-------|---------------------|-------------|---------------|-------------|-------------|-------------|-----------|
| Diameter | Depth | Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| HEXAGON SHANK WHIRLIBITS CARBIDE-TIPPED DRILL STEELS | | | | | | | | |
| 5/8" | 6" | 9" | WB5869 | 1.5 | WBA5869 | 1.75 | - | - |
| 5/8" | 9" | 12" | WB58912 | 1.75 | WBA58912 | 2 | - | - |
| 5/8" | 15" | 18" | WB581518 | 2 | WBA581518 | 2.25 | - | - |
| 5/8" | 21" | 24" | WB582124 | 2.5 | WBA582124 | 2.75 | - | - |
| 5/8" | 27" | 30" | WB582730 | 3 | WBA582730 | 3.25 | - | - |
| 3/4" | 6" | 9" | WB3469 | 1.75 | WBA3469 | 2 | - | - |
| 3/4" | 9" | 12" | WB34912 | 2 | WBA34912 | 2.25 | WBC34912 | 2.5 |
| 3/4" | 15" | 18" | WB341518 | 2.5 | WBA341518 | 2.75 | WBC341518 | 3 |
| 3/4" | 21" | 24" | WB342124 | 3 | WBA342124 | 3.25 | WBC342124 | 3.5 |
| 3/4" | 27" | 30" | WB342730 | 3.5 | WBA342730 | 3.75 | WBC342730 | 4 |
| 3/4" | 33" | 36" | WB343336 | 3.75 | WBA343336 | 4 | - | - |
| 3/4" | 45" | 48" | WB344548 | 4.25 | WBA344548 | 4.5 | - | - |
| 7/8" | 6" | 9" | WB7869 | 2 | WBA7869 | 2.25 | - | - |
| 7/8" | 9" | 12" | WB78912 | 2.5 | WBA78912 | 2.75 | WBC78912 | 2.5 |
| 7/8" | 15" | 18" | WB781518 | 3 | WBA781518 | 3.25 | WBC781518 | 3.25 |
| 7/8" | 21" | 24" | WB782124 | 3.75 | WBA782124 | 4 | WBC782124 | 4 |
| 7/8" | 27" | 30" | WB782730 | 4.5 | WBA782730 | 4.75 | WBC782730 | 4.5 |
| 7/8" | 33" | 36" | WB783336 | 5 | WBA783336 | 5.25 | WBC783336 | 5.5 |
| 7/8" | 45" | 48" | WB784548 | 6.25 | WBA784548 | 6.5 | - | - |

Jackhammer Rods

Hexagon Shank Whirlbits
Carbide-tipped Drill Steel

| Hex Shank Size | | | 7/8" x 3-1/4" | | 7/8" x 4-1/4" | | 1" x 4-1/4" | |
|--|-------|---------------------|---------------|-----------|---------------|-----------|-------------|-----------|
| Diameter | Depth | Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| HEXAGON SHANK WHIRLBITS CARBIDE-TIPPED DRILL STEELS | | | | | | | | |
| 1" | 9" | 12" | WB1912 | 2.75 | WBA1912 | 3 | WBC1912 | 3 |
| 1" | 15" | 18" | WB11518 | 3.5 | WBA11518 | 3.75 | WBC11518 | 4 |
| 1" | 21" | 24" | WB12124 | 4.25 | WBA12124 | 4.5 | WBC12124 | 5 |
| 1" | 27" | 30" | WB12730 | 5.25 | WBA12730 | 5.5 | WBC12730 | 5.75 |
| 1" | 33" | 36" | WB13336 | 6 | WBA13336 | 6.25 | - | - |
| 1" | 45" | 48" | WB14548 | 7.5 | WBA14548 | 7.75 | - | - |
| 1-1/8" | 9" | 12" | WB118912 | 3 | WBA118912 | 3.25 | WBC118912 | 3.75 |
| 1-1/8" | 15" | 18" | WB1181518 | 4 | WBA1181518 | 4.25 | WBC1181518 | 4.5 |
| 1-1/8" | 21" | 24" | WB1182124 | 5 | WBA1182124 | 5.25 | WBC1182124 | 5.5 |
| 1-1/8" | 27" | 30" | WB1182730 | 6 | WBA1182730 | 6.25 | WBC1182730 | 6.75 |
| 1-1/8" | 33" | 36" | WB1183336 | 6.75 | WBA1183336 | 7 | WBC1183336 | 7.75 |
| 1-1/8" | 45" | 48" | WB1184548 | 8.75 | WBA1184548 | 9 | - | - |
| 1-1/4" | 9" | 12" | WB114912 | 3 | WBA114912 | 3.25 | WBC114912 | 4.25 |
| 1-1/4" | 15" | 18" | WB1141518 | 4 | WBA1141518 | 4.25 | WBC1141518 | 5.5 |
| 1-1/4" | 21" | 24" | WB1142124 | 5 | WBA1142124 | 5.25 | WBC1142124 | 6.75 |
| 1-1/4" | 27" | 30" | WB1142730 | 6 | WBA1142730 | 6.25 | WBC1142730 | 8 |
| 1-1/4" | 33" | 36" | WB1143336 | 7 | WBA1143336 | 7.25 | - | - |
| 1-1/4" | 45" | 48" | WB1144548 | 8.75 | WBA1144548 | 9 | WBC1144548 | 11.5 |
| 1-3/8" | 9" | 12" | WB138912 | 3.25 | WBA138912 | 3.5 | WBC138912 | 4.25 |
| 1-3/8" | 15" | 18" | WB1381518 | 4 | WBA1381518 | 4.25 | WBC1381518 | 5.5 |
| 1-3/8" | 21" | 24" | WB1382124 | 5.25 | WBA1382124 | 5.5 | WBC1382124 | 6.5 |
| 1-3/8" | 27" | 30" | WB1382730 | 6.25 | WBA1382730 | 6.5 | WBC1382730 | 8 |
| 1-3/8" | 45" | 48" | WB1384548 | 7.25 | WBA1384548 | 9.25 | - | - |
| 1-1/2" | 9" | 12" | WB112912 | 3.25 | WBA112912 | 3.5 | WBC112912 | 4 |
| 1-1/2" | 15" | 18" | WB1121518 | 4.25 | WBA1121518 | 4.5 | WBC1121518 | 5.5 |
| 1-1/2" | 21" | 24" | WB1122124 | 5.25 | WBA1122124 | 5.5 | WBC1122124 | 6.75 |
| 1-1/2" | 27" | 30" | WB1122730 | 6.25 | WBA1122730 | 6.5 | WBC1122730 | 8 |
| 1-1/2" | 45" | 48" | WB1124548 | 9 | - | - | - | - |
| 1-5/8" | 15" | 18" | WB1581518 | 4 | WBA1581518 | 4.25 | - | - |
| 1-5/8" | 21" | 24" | WB11582124 | 5.5 | WBA11582124 | 5.75 | WBC1582124 | 7 |

Jackhammer Rods



"H" thread rod

| Hex Shank Size | 7/8" x 3-1/4" | | 7/8" x 4-1/4" | | 1" x 4-1/4" | |
|------------------------|---------------|-----------|---------------|-----------|-------------|-----------|
| Length Under Collar | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| "H" THREAD RODS | | | | | | |
| 12" | 45509585 | 3 | 51242006 | 3.25 | 50713023 | 4 |
| 18" | 50283266 | 4 | 51242014 | 4.25 | 50713031 | 5 |
| 24" | 50283506 | 5 | 51233690 | 5.25 | 50354596 | 7 |
| 30" | 51305639 | 6 | 51242030 | 6.25 | 51305704 | 9 |
| 36" | 50712728 | 7 | 51234052 | 7.25 | 50713049 | 10 |
| 48" | 50283555 | 9 | 51234060 | 9.25 | 50283183 | 12 |
| 60" | 50712736 | 11 | 51242063 | 12 | 50713056 | 15 |
| 72" | 50712744 | 14 | 50712975 | 13.25 | 50283696 | 18 |
| 96" | 50712751 | 18 | - | - | 50283241 | 23 |
| 120" | 45509593 | 22 | - | - | 50712132 | 28 |
| 144" | - | - | - | - | 50712140 | 33.5 |

Jackhammer Bits



"H" thread bit

| Bit Size | Single-use Steel Bits | | Multi-use Carbide Bits | |
|------------------------|-----------------------|-----------|------------------------|-----------|
| | Part Number | Weight lb | Part Number | Weight lb |
| "H" THREAD BITS | | | | |
| 1-3/8" | 51248359 | 0.44 | 51307155 | 0.5 |
| 1-1/2" | 51248367 | 0.46 | 51248300 | 0.6 |
| 1-5/8" | 51248375 | 0.56 | 51248318 | 0.65 |
| 1-3/4" | 51248383 | 0.6 | 51248326 | 0.8 |
| 1-7/8" | 51248391 | 0.82 | 51248334 | 0.9 |
| 2" | 51248409 | 0.88 | 51248342 | 1.1 |
| 2-1/4" | - | - | 51356723 | 1.2 |
| 2-1/2" | - | - | 51293017 | 1.3 |

Rivet Buster Steels & Accessories

Our jumbo shank rivet buster steels and attachments are ideal for general demolition and steel demolition applications.



JUMBO SHANK



Moil Points



General demolition

Flat Chisels



General demolition

Side-cut Chisels



Steel, rivet cutting

Rippers



Splitting steel

Jumbo Shank Rivet Buster Steels

| Length | Part Number | Weight lb |
|-------------------------|----------------|-----------|
| MOIL POINTS | | |
| 9" | 9001-297-9 | 2 |
| 12" | 9001-297-12 | 2.5 |
| 18" | 9001-297-18 | 3.75 |
| 24" | 9001-297-24 | 5.5 |
| 36" | 9001-297-36 | 8 |
| FLAT CHISELS | | |
| 9" | 9001-276-9-1/2 | 2 |
| 12" | 9001-276-12 | 2.5 |
| 18" | 9001-276-18 | 3.75 |
| 24" | 9001-276-24 | 5.5 |
| 36" | 9001-276-36 | 8 |
| SIDE-CUT CHISELS | | |
| 9" | 9001-277-9-1/2 | 2 |
| 12" | 9001-277-12 | 2.5 |
| 18" | 9001-277-18 | 3.75 |
| 24" | 9001-277-24 | 5.5 |
| 36" | 9001-277-36 | 8 |
| RIPPERS | | |
| 9" | 9001-295-9-1/2 | 2 |
| 12" | 9001-295-12 | 2.5 |

Backout Punches



Removing bolts and rivets

Backout Punches

| Length | Rivet Diameter | Part Number | Weight lb |
|------------------------|----------------|-------------|-----------|
| BACKOUT PUNCHES | | | |
| 9-1/2" | 3/8" | 9001-278 | 2 |
| 9-1/2" | 1/2" | 9001-279 | 2 |
| 9-1/2" | 5/8" | 9001-280 | 2 |
| 9-1/2" | 3/4" | 9001-281 | 2.25 |
| 9-1/2" | 7/8" | 9001-282 | 2.25 |
| 9-1/2" | 1" | 9001-283 | 2.25 |

Retainers



89938443



9001-200

Upper Sleeve



9001-220

Lower Sleeve



9001-201

Rivet Buster Accessories

| Barrel Threaded (9001, 11001) Part Number | Barrel Grooved (8001A, 9001A, 11001A) Part Number |
|---|---|
| RETAINERS | |
| - | 89938443 |
| 9001-200 | - |

| Barrel Threaded (9001, 11001) Part Number | Barrel Grooved (8001A, 9001A, 11001A) Part Number |
|---|---|
| UPPER SLEEVE | |
| 9001-220 | 9001-220 |
| LOWER SLEEVE | |
| 9001-201 | 9001-201 |

| Barrel Threaded (9001, 11001) Part Number | Barrel Grooved (8001A, 9001A, 11001A) Part Number |
|---|---|
| BUMPER | |
| 9001-203 | 9001-203 |

Bumper



9001-203

Lock Clip



9RB-207

Spring Lock



89938450

| Barrel Threaded (9001, 11001) Part Number | Barrel Grooved (8001A, 9001A, 11001A) Part Number |
|---|---|
| LOCK CLIP | |
| 9RB-207 | - |
| SPRING LOCK | |
| - | 89938450 |

Key



9001-208

Pin



FMD2-667

| Barrel Threaded (9001, 11001) Part Number | Barrel Grooved (8001A, 9001A, 11001A) Part Number |
|---|---|
| KEY | |
| 9001-208 | - |
| PIN | |
| FMD2-667 | - |

Chipping Hammer Steels & Accessories

Suitable for a wide range of applications, our chipping hammer steels are available with round or hex shanks and oval or round collars.



| ROUND SHANK OVAL COLLAR | HEX SHANK OVAL COLLAR | ROUND SHANK ROUND COLLAR | HEX SHANK ROUND COLLAR |
|-------------------------|-----------------------|--------------------------|------------------------|
| | | | |

Chipping Hammer Steels

Blanks



For making customized points

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|---------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| BLANKS | | | | | |
| 12" | HH1-215-12 | HH1-214-12 | H3R-215-12 | H3R-214-12 | 1.75 |
| 18" | HH1-215-18 | HH1-214-18 | H3R-215-18 | H3R-214-18 | 2.75 |
| 24" | HH1-215-24 | HH1-214-24 | H3R-215-24 | H3R-214-24 | 3.5 |
| 36" | HH1-215-36 | HH1-214-36 | H3R-215-36 | H3R-214-36 | 5.5 |

1" Flat Chisels



General demolition

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|------------------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| 1" FLAT CHISELS | | | | | |
| 9" | HH1-215F-9 | HH1-214F-9 | H3R-215F-9 | H3R-214F-9 | 1.25 |
| 12" | HH1-215F-12 | HH1-214F-12 | H3R-215F-12 | H3R-214F-12 | 1.75 |
| 18" | HH1-215F-18 | HH1-214F-18 | H3R-215F-18 | H3R-214F-18 | 2.5 |
| 24" | HH1-215F-24 | HH1-214F-24 | H3R-215F-24 | H3R-214F-24 | 3 |
| 36" | HH1-215F-36 | HH1-214F-36 | H3R-215F-36 | H3R-214F-36 | 5.25 |
| 48" | HH1-215F-48 | HH1-214F-48 | H3R-215F-48 | H3R-214F-48 | 6 |
| 60" | HH1-215F-60 | HH1-214F-60 | H3R-215F-60 | H3R-214F-60 | 9 |
| 72" | HH1-215F-72 | HH1-214F-72 | H3R-215F-72 | H3R-214F-72 | 9.25 |
| 84" | HH1-215F-84 | HH1-214F-84 | H3R-215F-84 | H3R-214F-84 | 13.25 |
| 96" | HH1-215F-96 | HH1-214F-96 | H3R-215F-96 | H3R-214F-96 | 15.25 |

Moil Points



General demolition

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|--------------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| MOIL POINTS | | | | | |
| 9" | HH1-215M-9 | HH1-214M-9 | H3R-215M-9 | H3R-214M-9 | 1.25 |
| 12" | HH1-215M-12 | HH1-214M-12 | H3R-215M-12 | H3R-214M-12 | 1.75 |
| 18" | HH1-215M-18 | HH1-214M-18 | H3R-215M-18 | H3R-214M-18 | 2.5 |
| 24" | HH1-215M-24 | HH1-214M-24 | H3R-215M-24 | H3R-214M-24 | 3 |
| 36" | HH1-215M-36 | HH1-214M-36 | H3R-215M-36 | H3R-214M-36 | 5.25 |

1-1/2" Scaling Chisels



General demolition

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|-------------------------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| 1-1/2" SCALING CHISELS | | | | | |
| 9" | HH1-215B-9 | HH1-214B-9 | H3R-215B-9 | H3R-214B-9 | 1.25 |
| 12" | HH1-215B-12 | HH1-214B-12 | H3R-215B-12 | H3R-214B-12 | 1.75 |
| 18" | HH1-215B-18 | HH1-214B-18 | H3R-215B-18 | H3R-214B-18 | 2.5 |

2" Scaling Chisels



General demolition

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|---------------------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| 2" SCALING CHISELS | | | | | |
| 9" | HH1-323-9 | HH1-324-9 | H3R-423-9 | H3R-424-9 | 1.25 |
| 12" | HH1-323-12 | HH1-324-12 | H3R-423-12 | H3R-424-12 | 2 |
| 18" | HH1-323-18 | HH1-324-18 | H3R-423-18 | H3R-424-18 | 2.5 |
| 24" | HH1-323-24 | HH1-324-24 | H3R-423-24 | H3R-424-24 | 3.5 |
| 36" | HH1-323-36 | HH1-324-36 | H3R-423-36 | H3R-424-36 | 5.25 |
| 48" | HH1-323-48 | HH1-324-48 | H3R-423-48 | H3R-424-48 | 7 |
| 60" | HH1-323-60 | HH1-324-60 | H3R-423-60 | H3R-424-60 | 9.25 |
| 72" | HH1-323-72 | HH1-324-72 | H3R-423-72 | H3R-424-72 | 11 |
| 84" | HH1-323-84 | HH1-324-84 | H3R-423-84 | H3R-424-84 | 12.5 |
| 96" | HH1-323-96 | HH1-324-96 | H3R-423-96 | H3R-424-96 | 14.5 |

3" Scaling Chisels



General demolition

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|--------------------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| 3" SCALING CHISEL | | | | | |
| 12" | HH1-215S-12 | HH1-214S-12 | H3R-215S-12 | H3R-214S-12 | 2 |

Bushing Tools



Concrete surface removal or roughing

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|---------------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| BUSHING TOOL | | | | | |
| 9" | HH1-215T-9 | HH1-214T-9 | H3R-215T-9 | H3R-214T-9 | 2.5 |

Tooth



Tamping aggregate material

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|--------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| TOOTH | | | | | |
| 12" | HH1-321-12 | HH1-322-12 | H3R-421-12 | H3R-422-12 | 1.75 |

Ripper



Splitting steel

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|---------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| RIPPER | | | | | |
| 12" | HH1-215R-12 | HH1-214R-12 | H3R-215R-12 | H3R-214R-12 | 1.75 |

Round Nose



Pointed for piercing holes

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|-------------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| ROUND NOSE | | | | | |
| 12" | HH1-215N-12 | HH1-214N-12 | H3R-215N-12 | H3R-214N-12 | 1.5 |

Straight Fuller



Used on pipe and metal

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|------------------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| STRAIGHT FULLER | | | | | |
| 12" | HH1-215J-12 | HH1-214J-12 | H3R-215J-12 | H3R-214J-12 | 1.5 |

Gouge



Cupped end for gouging wood and concrete

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|--------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| GOUGE | | | | | |
| 12" | HH1-215G-12 | HH1-214G-12 | H3R-215G-12 | H3R-214G-12 | 1.5 |

Caulking



Caulk removal

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|-----------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| CAULKING | | | | | |
| 12" | HH1-215E-12 | HH1-214E-12 | H3R-215E-12 | H3R-214E-12 | 1.75 |

Diamond Point



General demolition

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|----------------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| DIAMOND POINT | | | | | |
| 12" | HH1-215D-12 | HH1-214D-12 | H3R-215D-12 | H3R-214D-12 | 1.75 |

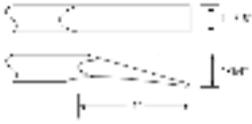
Cape Chisel



General demolition

| | Round Shank Oval Collar | Hex Shank Oval Collar | Round Shank Round Collar | Hex Shank Round Collar | |
|--------------------|-------------------------|-----------------------|--------------------------|------------------------|-----------|
| Length | Part Number | Part Number | Part Number | Part Number | Weight lb |
| CAPE CHISEL | | | | | |
| 12" | HH1-215C-12 | HH1-214C-12 | H3R-215C-12 | H3R-214C-12 | 1.75 |

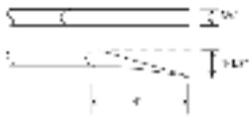
Paper Box Stripping Chisel



Paper Box Stripping Chisels

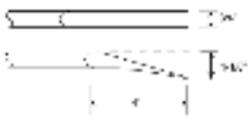
| Round Shank Round Collar | | | |
|-----------------------------------|-------------|-----------------------|-----------|
| Length | Part Number | Dimensions | Weight lb |
| PAPER BOX STRIPPING CHISEL | | | |
| 22" | HHW1-S215-1 | 1-1/16" x 1-1/4" x 4" | 4 |

Paper Box Stripping Chisel



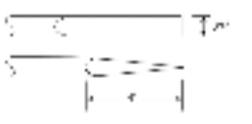
| Round Shank Round Collar | | | |
|-----------------------------------|-------------|--------------------|-----------|
| Length | Part Number | Dimensions | Weight lb |
| PAPER BOX STRIPPING CHISEL | | | |
| 16-1/4" | HHW1-S215-2 | 3/4" x 1-1/8" x 4" | 4 |

Paper Box Stripping Chisel



| Round Shank Round Collar | | | |
|-----------------------------------|-------------|--------------------|-----------|
| Length | Part Number | Dimensions | Weight lb |
| PAPER BOX STRIPPING CHISEL | | | |
| 22" | HHW1-S215-3 | 3/4" x 1-1/8" x 4" | 2.5 |

Paper Box Stripping Chisel



| Round Shank Round Collar | | | |
|-----------------------------------|-------------|------------|-----------|
| Length | Part Number | Dimensions | Weight lb |
| PAPER BOX STRIPPING CHISEL | | | |
| 22" | HHW1-S215-4 | 3/4" x 4" | 2.5 |

Paper Box Stripping Chisel



| Round Shank Round Collar | | | |
|-----------------------------------|-------------|------------|-----------|
| Length | Part Number | Dimensions | Weight lb |
| PAPER BOX STRIPPING CHISEL | | | |
| 22" | HHW1-S215-5 | 3/4" x 5" | 2 |

Upper Buffer Washer



Lower Buffer Washer



Lower Buffer Washer Ring



Rubber Bumper



Lock Clip



Chipping Hammer Accessories

| Description | Part Number |
|--------------------------------|-------------|
| BUFFER WASHERS | |
| Upper buffer washer (2 pieces) | H3R-31 |
| Lower buffer washer (2 pieces) | HHW1-213 |

| Description | Part Number |
|---------------------------------|-------------|
| LOWER BUFFER WASHER RING | |
| Lower buffer washer ring | R000A2-103 |

| Description | Part Number |
|----------------------|-------------|
| RUBBER BUMPER | |
| Rubber bumper | H3R-203 |

| Description | Part Number |
|------------------|-------------|
| LOCK CLIP | |
| Lock clip | 24SR-207 |

Standard Retainer (grooved)



Quick-Change #1 (grooved)



Quick-Change #2 (grooved)



Lock Spring (grooved)



Rubber Buffered (threaded)



Economy Type (threaded)



Quick-Change (threaded)



Chipping Hammer Retainers

| Barrel Area Type | K, A, D Series | Part Number | W Series |
|--|----------------|-------------|----------|
| STANDARD RETAINER (STANDARD ON ALL CHIPPERS ENDING IN "SA") | | | |
| Grooved | | HH1-1190 | – |

| Barrel Area Type | K, A, D Series | Part Number | W Series |
|------------------------|----------------|-------------|----------|
| QUICK-CHANGE #1 | | | |
| Grooved | | HH1-1191 | – |
| QUICK-CHANGE #2 | | | |
| Grooved | | HH1-3400-3 | – |

| Barrel Area Type | K, A, D Series | Part Number | W Series |
|---|----------------|-------------|----------|
| LOCK SPRING (USED WITH ALL GROOVED RETAINERS LISTED ABOVE) | | | |
| Grooved | | HH1-1194 | – |

| Barrel Area Type | K, A, D Series | Part Number | W Series |
|--|----------------|-------------|-----------|
| RUBBER BUFFERED (STANDARD ON ALL W SERIES CHIPPERS) | | | |
| Threaded | – | | HHW1-A300 |

| Barrel Area Type | K, A, D Series | Part Number | W Series |
|---------------------|----------------|-------------|----------|
| ECONOMY TYPE | | | |
| Threaded | – | | HHW2-200 |

| Barrel Area Type | K, A, D Series | Part Number | W Series |
|---------------------|----------------|-------------|-----------|
| QUICK-CHANGE | | | |
| Threaded | – | | HHW1-3450 |

Pneumatic Hammer Chisels

Tested to withstand the harshest environments, Ingersoll Rand is proud to offer the following pneumatic hammer accessories. All chisels are built from high-quality steel for the utmost in quality, strength, and durability.



Pneumatic Tool Steels

0.401 Shank Chisels

1/2" Flat Chisel



| Hex Shank Size 7" | | 9" | | 12" | | 18" | |
|-------------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 1/2" FLAT CHISEL | | | | | | | |
| 401FC127 | 0.5 | 401FC129 | 0.75 | 401FC1212 | 1 | 401FC1218 | 1.25 |

1/2" Offset Flat Chisel



| Hex Shank Size 7" | | 9" | | 12" | | 18" | |
|--------------------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 1/2" OFFSET FLAT CHISEL | | | | | | | |
| 401OFC127 | 0.5 | 401OFC129 | 0.75 | 401OFC1212 | 1 | 401OFC1218 | 1.25 |

1/2" Sidecut Chisel



| Hex Shank Size 7" | | 9" | | 12" | | 18" | |
|----------------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 1/2" SIDECUT CHISEL | | | | | | | |
| 401SC127 | 0.75 | 401SC129 | 0.75 | 401SC1212 | 1 | 401SC1218 | 1.25 |

Offset Sidecut Chisel



| Hex Shank Size 7" | | 9" | | 12" | | 18" | |
|------------------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| OFFSET SIDECUT CHISEL | | | | | | | |
| 401OSC127 | 0.75 | - | - | - | - | - | - |

1-1/4" Wide Flat Blade



| Hex Shank Size 7" | | 9" | | 12" | | 18" | |
|-------------------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 1-1/4" WIDE FLAT BLADE | | | | | | | |
| 401WBC1147 | 0.5 | 401WBC1149 | 0.75 | 401WBC11412 | 1 | 401WBC11418 | 1.25 |

Bull or Moil Point



0.401 Shank Chisels

| Hex Shank Size 7" | | 9" | | 12" | | 18" | |
|---------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| BULL OR MOIL | | | | | | | |
| 401MP7 | 0.5 | 401MP9 | 0.75 | 401MP12 | 1 | 401MP18 | 1.25 |

3/4" Flat Chisel



| Hex Shank Size 7" | | 9" | | 12" | | 18" | |
|-------------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 3/4" FLAT CHISEL | | | | | | | |
| 401FC347 | 0.5 | 401FC349 | 0.75 | 401FC3412 | 1 | 401FC3418 | 1.5 |

Straight Blank



| Hex Shank Size 7" | | 9" | | 12" | | 18" | |
|-----------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| STRAIGHT BLANK | | | | | | | |
| 401B07 | 0.5 | 401B09 | 0.75 | 401B12 | 1 | 401B18 | 1.25 |

Chisel Set

9500/9501



5-piece high-quality chisel set made of heat-treated alloy

- Tapered punch
- Flat chisel
- Panel cutter
- Sheet metal cutter
- Spot weld breaker

4-piece high-quality chisel set made of heat-treated alloy

- Tapered punch
- Panel cutter
- Flat chisel
- Spot weld breaker

Quick Change Retainer

9512



| Manufacturer | Fits Models |
|-------------------|---------------------------------------|
| Ingersoll Rand | 115, 116, 117, 121, 132 |
| Chicago Pneumatic | All 0.401 shank hammers except CP7 16 |
| Cleco | E3, E4, E15, E16 |
| Dayton | All |

- Quick-change hammer coupler
- Holds 0.401 shank chisels firmly in place; install by pulling back collar

Spring Retainer

9505



- 2 hammer-spring retainers
- Designed to guard against accidental shank release

Backfill Tamper & Sand Rammer Butts

Our line of tamper butts can meet all of your compaction needs. These products complement the Ingersoll Rand line of backfill tamper and sand rammer tools, and can be used with other manufacturers' tools as well.



Steel Butts



| Part Number | Diameter | Fits Rods | Fits IR Tool |
|-------------------|----------|--------------|--------------|
| STEEL BUTT | | | |
| 34SR-383 | 3" | 7/8" tapered | 341A2M |



| Part Number | Diameter | Fits Rods | Fits IR Tool |
|--------------------|----------|--------------|--------------|
| STEEL BUTTS | | | |
| 12SR-83 | 2-1/2" | 1/2" tapered | 130A1M |
| 22SR-83-3x3/4 | 3" | 5/8" tapered | 241A1M |

Moon Steel Butt



| Part Number | Diameter | Fits Rods | Fits IR Tool |
|------------------------|----------|---------------------|--------------|
| MOON STEEL BUTT | | | |
| 44SR-HM183-5 | 5-1/4" | 1" tapered threaded | 441A2 |

Malleable Butts



| Part Number | Diameter | Fits Rods | Fits IR Tool |
|------------------------|----------|---------------------|--------------|
| MALLEABLE BUTTS | | | |
| 44SR-M183-5-3/4 | 5-3/4" | 1" tapered threaded | 441A2 |
| 34SR-M183-5-3/4 | 5-3/4" | 7/8" tapered | 341A2M |

Rubber Topping-off Butts



| Part Number | Diameter | Fits Rods | Fits IR Tool |
|---------------------------------|----------|--------------|--------------|
| RUBBER TOPPING-OFF BUTTS | | | |
| 14SR-83R-4 | 3-29/32" | 1/2" tapered | 130A1M |
| 24SR-83R-5 | 5" | 5/8" tapered | 241A1M |

Rubber-tipped Butts



| Part Number | Diameter | Fits Rods | Fits IR Tool |
|----------------------------|----------|--------------|--------------|
| RUBBER-TIPPED BUTTS | | | |
| 14SR-83R-2-3/8 | 2-3/8" | 1/2" tapered | 130A1M |
| 24SR-83R-3 | 3" | 5/8" tapered | 241A1M |

Rubber-tipped Peens



| Part Number | Diameter | Fits Rods | Fits IR Tool |
|----------------------------|----------|--------------|--------------|
| RUBBER-TIPPED PEENS | | | |
| 14SR-93R | 2-3/8" | 1/2" tapered | 130A1M |
| 24SR-93R | 2-7/8" | 5/8" tapered | 241A1M |

Scaler & Needle Scaler Steels

Ingersoll Rand chisel and needle scalers are your best solutions for removing unwanted surface coatings and deposits. They're ideal for removing paint, rust, weld splatter and slag, and other materials.



INGERSOLL RAND



Blank



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| BLANK | | | | | |
| WF-14-007 | 0.5 | WF-14-12 | 0.75 | WF-14-18 | 1.25 |

Narrow



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| NARROW | | | | | |
| WF-14F-7 | 0.5 | WF-14F-12 | 0.75 | WF-14F-18 | 1.25 |

Standard Wide



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| STANDARD WIDE | | | | | |
| WF-14B-007 | 0.5 | WF-14B-012 | 0.75 | WF-14B-18 | 1.25 |

2" Wide



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 2" WIDE | | | | | |
| WF-14C-007 | 0.5 | WF-14C-012 | 0.75 | WF-14C-018 | 1.5 |

3" Wide



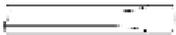
| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 3" WIDE | | | | | |
| WF-14D-007 | 0.75 | WF-14D-012 | 1 | WF-14D-018 | 1.5 |

Spoon



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| SPOON | | | | | |
| WF-14A-007 | 0.5 | WF-14A-12 | 0.75 | WF-14A-18 | 1.25 |

Gouge



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| GOUGE | | | | | |
| WF-14G-6 | 0.5 | - | - | - | - |

2" Blade



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 2" BLADE | | | | | |
| 89940613 | 0.5 | - | - | - | - |

3" Blade



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 3" BLADE | | | | | |
| 22038749 | 0.75 | - | - | - | - |

2" Blade (spark-resistant)



| Hex Shank Size 7" | | 12" | | 18" | |
|-----------------------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 2" BLADE (SPARK-RESISTANT) | | | | | |
| 22038756 | 0.5 | - | - | - | - |

CLECO



CLECO Scaler Chisels

Blank



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|---------------|-----------|---------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| BLANK | | | | | |
| PF2200-391 | 0.5 | PF2200-391-12 | 0.75 | PF2200-391-18 | 1.25 |

Narrow



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|---------------|-----------|---------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| NARROW | | | | | |
| PF2200-392 | 0.5 | PF2200-392-12 | 0.75 | PF2200-392-18 | 1.25 |

Standard Wide



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|---------------|-----------|---------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| STANDARD WIDE | | | | | |
| PF2200-393 | 0.5 | PF2200-393-12 | 0.75 | PF2200-393-18 | 1.25 |

2" Wide



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|---------------|-----------|---------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 2" WIDE | | | | | |
| PF2200-390 | 0.5 | PF2200-390-12 | 0.75 | PF2200-390-18 | 1.5 |

3" Wide



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-----------------|-----------|-----------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 3" WIDE | | | | | |
| PF2200-390-3 | 0.75 | PF2200-390-3-12 | 1 | PF2200-390-3-18 | 1.5 |

Spoon



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|---------------|-----------|---------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| SPOON | | | | | |
| PF2200-394 | 0.5 | PF2200-394-12 | 0.75 | PF2200-394-18 | 1.25 |

Round Nose



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| ROUND NOSE | | | | | |
| PF2200-3231 | 0.5 | - | - | - | - |

Cape



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| CAPE | | | | | |
| PF2200-3232 | 0.5 | - | - | - | - |

CHICAGO PNEUMATIC



Chicago Pneumatic Scaler Chisels

Blank



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| BLANK | | | | | |
| CP2100-07 | 0.5 | CP2100-12 | 0.75 | CP2100-18 | 1.25 |

Narrow



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| NARROW | | | | | |
| CP2153-07 | 0.5 | CP2153-12 | 0.75 | CP2153-18 | 1.25 |

Standard Wide



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| STANDARD WIDE | | | | | |
| CP2151-07 | 0.5 | CP2151-12 | 0.75 | CP2151-18 | 1.25 |

2" Wide



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 2" WIDE | | | | | |
| CP2107-07 | 0.5 | CP2107-12 | 0.75 | CP2107-18 | 1.5 |

3" Wide



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| 3" WIDE | | | | | |
| CP2142-07 | 0.75 | CP2142-12 | 1 | - | - |

Spoon



| Hex Shank Size 7" | | 12" | | 18" | |
|-------------------|-----------|-------------|-----------|-------------|-----------|
| Part Number | Weight lb | Part Number | Weight lb | Part Number | Weight lb |
| SPOON | | | | | |
| CP2154-07 | 0.5 | CP2154-12 | 0.75 | CP2154-18 | 1.25 |

Round Needle Housings



Rectangular Needle Housings



Needle Scaler Housings

| Part Number | Description |
|---|--|
| ROUND NEEDLE HOUSINGS | |
| NS11A | With 5" (127 mm) steel needles |
| NS11AS | With 5" (127 mm) stainless-steel needles |
| NS11A7 | With 7" (178 mm) extended steel needles — optional |
| RECTANGULAR NEEDLE HOUSINGS | |
| NS11BB | With 5" (127 mm) beryllium copper needles |
| NS11BS | With 5" (127 mm) stainless-steel needles |
| NS11B7 | With 7" (178 mm) extended steel needles |
| REPLACEMENT NEEDLES — SET OF 19 NEEDLES (3 mm) | |
| NS11-22-19 | 5" (127 mm) steel needles — standard |
| NS11-B22-19 | 5" (127 mm) beryllium copper needles — optional |
| NS11-S22-19 | 5" (127 mm) stainless-steel needles — optional |
| NS11-122-19 | 7" (178 mm) extended steel needles — optional |

Bulk Needles

| Part Number | Description | Quantity |
|---------------------|------------------------------|----------|
| BULK NEEDLES | | |
| 22038194 | 2 mm needle holder for 170PG | N/A |
| 22038202 | 2 mm needle holder for 180PG | N/A |
| 22038210 | 4 mm needle holder for 180PG | N/A |
| 22038525 | 2 mm flat tip 7" steel | 100 |
| 22038533 | 3 mm flat tip 5" steel | 100 |
| 22038566 | 3 mm flat tip 7" beryllium | 500 |
| 22038558 | 3 mm flat tip 7" beryllium | 100 |
| 22038541 | 3 mm flat tip 7" steel | 1,000 |
| 89940597 | 3 mm flat tip 7" steel | 100 |
| 22038582 | 3 mm chisel tip 7" steel | 1,000 |
| 22038574 | 3 mm chisel tip 7" steel | 100 |
| 22038608 | 3 mm pointed tip 7" steel | 1,000 |
| 22038590 | 3 mm pointed tip 7" steel | 100 |
| 22038624 | 4 mm flat tip 7" steel | 500 |
| 22038616 | 4 mm flat tip 7" steel | 100 |
| 22038640 | 4 mm chisel tip 7" steel | 500 |
| 22038632 | 4 mm chisel tip 7" steel | 100 |
| 22038665 | 4 mm pointed tip 7" steel | 500 |
| 22038657 | 4 mm pointed tip 7" steel | 100 |

Abrasives & Pads



Quick Change Abrasives

Ingersoll Rand offers a complete line of 1-1/2" to 3" surface-conditioning discs designed to maximize the productivity of our grinders, while ensuring the best possible finishes.

Quick-Change Backer Pads

| Part Number | Description |
|---------------------------------|--|
| QUICK-CHANGE BACKER PADS | |
| 02A-MEDPD-NM | 2" Medium pad no mandrel |
| 03A-MEDPD-NM | 3" Medium pad no mandrel |
| 02A-SFTPD | 2" Soft holder pad w/ 1/4" mandrel |
| 03A-SFTPD | 3" Soft holder pad w/ 1/4" mandrel |
| 15A-MEDPD | 1-1/2" Medium holder pad w/ 1/4" mandrel |
| 02A-MEDPD | 2" Medium holder pad w/ 1/4" mandrel |
| 03A-MEDPD | 3" Medium holder pad w/ 1/4" mandrel |
| 02A-FRMPD | 2" Firm holder pad w/ 1/4" mandrel |
| 03A-FRMPD | 3" Firm holder pad w/ 1/4" mandrel |



AO Series

| Features | Benefits |
|--------------------------------|--|
| Quick-change fastening systems | Instant disc changes; disc is centered; smooth-running |
| Multiple layers of backing | Works well on flat and contoured surfaces |
| Aggressive stock removal | Greater productivity |



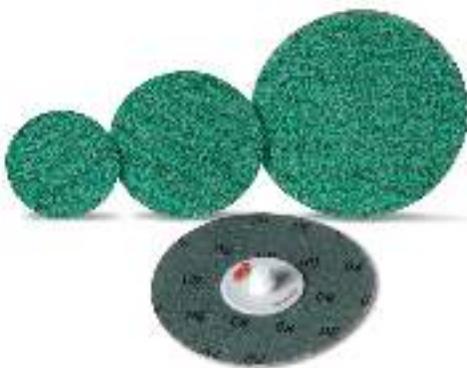
AO Series Quick-Change Sanding Discs

| Part Number | Description | Grit |
|---|-------------------------------|------|
| INDUSTRIAL PACKS (FLAP-TOP BOX) | | |
| 15A-036AO-100 | 1-1/2" AO Series sanding disc | 36 |
| 15A-050AO-100 | 1-1/2" AO Series sanding disc | 50 |
| 15A-080AO-100 | 1-1/2" AO Series sanding disc | 80 |
| 15A-120AO-100 | 1-1/2" AO Series sanding disc | 120 |
| 15A-180AO-100 | 1-1/2" AO Series sanding disc | 180 |
| 15A-240AO-100 | 1-1/2" AO Series sanding disc | 240 |
| 02A-036AO-100 | 2" AO Series sanding disc | 36 |
| 02A-050AO-100 | 2" AO Series sanding disc | 50 |
| 02A-080AO-100 | 2" AO Series sanding disc | 80 |
| 02A-120AO-100 | 2" AO Series sanding disc | 120 |
| 02A-180AO-100 | 2" AO Series sanding disc | 180 |
| 02A-240AO-100 | 2" AO Series sanding disc | 240 |
| 03A-036AO-50 | 3" AO Series sanding disc | 36 |
| 03A-050AO-50 | 3" AO Series sanding disc | 50 |
| 03A-080AO-50 | 3" AO Series sanding disc | 80 |
| 03A-120AO-50 | 3" AO Series sanding disc | 120 |
| 03A-180AO-50 | 3" AO Series sanding disc | 180 |
| 03A-240AO-50 | 3" AO Series sanding disc | 240 |
| AUTOMOTIVE PACKS (SMALLER QUANTITY FLIP-TOP BOXES) | | |
| 02A-036AO-25 | 2" AO series sanding disc | 36 |
| 02A-050AO-25 | 2" AO series sanding disc | 50 |
| 02A-080AO-25 | 2" AO Series sanding disc | 80 |
| 02A-120AO-25 | 2" AO Series sanding disc | 120 |
| 02A-180AO-25 | 2" AO Series sanding disc | 180 |
| 02A-240AO-25 | 2" AO Series sanding disc | 240 |
| 03A-036AO-25 | 3" AO Series sanding disc | 36 |
| 03A-050AO-25 | 3" AO Series sanding disc | 50 |
| 03A-080AO-25 | 3" AO Series sanding disc | 80 |
| 03A-120AO-25 | 3" AO Series sanding disc | 120 |
| 03A-180AO-25 | 3" AO Series sanding disc | 180 |
| 03A-240AO-25 | 3" AO Series sanding disc | 240 |

ZR Series Quick-Change Sanding Discs

| Features | Benefits |
|---|--|
| Variety of quick-change fastening systems | Instant disc changes; disc is centered; smooth-running |
| Zirconia alumina grain | Durable; rapid stock removal |
| Cooler-running | Reduce risk of loading; longer-lasting |
| 2-ply construction | Work well on flat or surfaces |

| Part Number | Description | Grit |
|---|-------------------------------|------|
| ZR SERIES — QUICK-CHANGE SANDING DISCS | | |
| 15A-036ZR-100 | 1-1/2" ZR Series sanding disc | 36 |
| 15A-050ZR-100 | 1-1/2" ZR Series sanding disc | 50 |
| 15A-080ZR-100 | 1-1/2" ZR Series sanding disc | 80 |
| 15A-120ZR-100 | 1-1/2" ZR Series sanding disc | 120 |
| 02A-036ZR-100 | 2" ZR Series sanding disc | 36 |
| 02A-050ZR-100 | 2" ZR Series sanding disc | 50 |
| 02A-080ZR-100 | 2" ZR Series sanding disc | 80 |
| 02A-120ZR-100 | 2" ZR Series sanding disc | 120 |
| 03A-036ZR-50 | 3" ZR Series sanding disc | 36 |
| 03A-050ZR-50 | 3" ZR Series sanding disc | 50 |
| 03A-080ZR-50 | 3" ZR Series sanding disc | 80 |
| 03A-120ZR-50 | 3" ZR Series sanding disc | 120 |
| AUTOMOTIVE PACKS (SMALLER QUANTITY FLIP-TOP BOXES) | | |
| 02A-036ZR-25 | 2" ZR Series sanding disc | 36 |
| 02A-050ZR-25 | 2" ZR Series sanding disc | 50 |
| 02A-080ZR-25 | 2" ZR Series sanding disc | 80 |
| 02A-120ZR-25 | 2" ZR Series sanding disc | 120 |
| 03A-036ZR-25 | 3" ZR Series sanding disc | 36 |
| 03A-050ZR-25 | 3" ZR Series sanding disc | 50 |
| 03A-080ZR-25 | 3" ZR Series sanding disc | 80 |
| 03A-120ZR-25 | 3" ZR Series sanding disc | 120 |



CO Series Quick-Change Sanding Discs

| Features | Benefits |
|------------------------|---|
| Ceramic grain | Durable; rapid stock removal |
| Stiff, durable backing | Maintain high cut rate on edges without grain shredding and tearing |
| Cooler-running | Reduce risk of loading |

| Part Number | Description | Grit |
|---|-------------------------------|------|
| CO SERIES — QUICK-CHANGE SANDING DISCS | | |
| 15A-036CO-100 | 1-1/2" CO Series sanding disc | 36 |
| 15A-050CO-100 | 1-1/2" CO Series sanding disc | 50 |
| 15A-080CO-100 | 1-1/2" CO Series sanding disc | 80 |
| 15A-120CO-100 | 1-1/2" CO Series sanding disc | 120 |
| 02A-036CO-100 | 2" CO Series sanding disc | 36 |
| 02A-050CO-100 | 2" CO Series sanding disc | 50 |
| 02A-080CO-100 | 2" CO Series sanding disc | 80 |
| 02A-120CO-100 | 2" CO Series sanding disc | 120 |
| 03A-036CO-50 | 3" CO Series sanding disc | 36 |
| 03A-050CO-50 | 3" CO Series sanding disc | 50 |
| 03A-080CO-50 | 3" CO Series sanding disc | 80 |
| 03A-120CO-50 | 3" CO Series sanding disc | 120 |
| AUTOMOTIVE PACKS (SMALLER QUANTITY FLIP-TOP BOXES) | | |
| 02A-036CO-25 | 2" CO Series sanding disc | 36 |
| 02A-050CO-25 | 2" CO Series sanding disc | 50 |
| 02A-080CO-25 | 2" CO Series sanding disc | 80 |
| 02A-120CO-25 | 2" CO Series sanding disc | 120 |
| 03A-036CO-25 | 3" CO Series sanding disc | 36 |
| 03A-050CO-25 | 3" CO Series sanding disc | 50 |
| 03A-080CO-25 | 3" CO Series sanding disc | 80 |
| 03A-120CO-25 | 3" CO Series sanding disc | 120 |



Quick-Change Surface Prep Discs

| Part Number | Description |
|---|--|
| INDUSTRIAL PACKS (FLIP-TOP BOXES) | |
| 15A-CRSBR-50 | 1-1/2" Surface prep disc — coarse, brown |
| 15A-MEDBR-50 | 1-1/2" Surface prep disc — medium, maroon |
| 15A-VFNBR-50 | 1-1/2" Surface prep disc — very fine, blue |
| 02A-CRSBR-50 | 2" Surface prep disc — coarse, brown |
| 02A-MEDBR-50 | 2" Surface prep disc — medium, maroon |
| 02A-VFNBR-50 | 2" Surface prep disc — very fine, blue |
| 03A-CRSBR-25 | 3" Surface prep disc — coarse, brown |
| 03A-MEDBR-25 | 3" Surface prep disc — medium, maroon |
| 03A-VFNBR-25 | 3" Surface prep disc — very fine, blue |
| AUTOMOTIVE PACKS (SMALLER QUANTITY FLIP-TOP BOXES) | |
| 02A-CRSBR-25 | 2" Surface prep disc — coarse, brown |
| 02A-MEDBR-25 | 2" Surface prep disc — medium, maroon |
| 02A-VFNBR-25 | 2" Surface prep disc — very fine, blue |
| 03A-CRSBR-10 | 3" Surface prep disc — coarse, brown |
| 03A-MEDBR-10 | 3" Surface prep disc — medium, maroon |
| 03A-VFNBR-10 | 3" Surface prep disc — very fine, blue |



Quick-Change Quick Strip Discs

| Part Number | Description |
|---|--|
| 02A-CRSB5-25 | 2" Surface prep coating removal disc — black |
| 03A-CRSB5-10 | 3" Surface prep coating removal disc — black |
| 02A-CRSB8-25 | 2" Surface prep coating removal disc — blue* |
| 03A-CRSB8-10 | 3" Surface prep coating removal disc — blue* |
| AUTOMOTIVE PACKS (SMALLER QUANTITY FLIP-TOP BOXES) | |
| 02A-CRSB5-10 | 2" Surface prep coating removal disc — black |
| 03A-CRSB5-5 | 3" Surface prep coating removal disc — black |
| 02A-CRSB8-10 | 2" Surface prep coating removal disc — blue* |
| 03A-CRSB8-5 | 3" Surface prep coating removal disc — blue* |



*For more aggressive applications.

Convenience Packs

| Part Number | Description | Grit |
|--|--|---|
| AO SERIES — CUTTING & GRINDING (6-PIECE PACKS) | | |
| 02A-036AO-6 | 2" AO Series sanding disc | 36 |
| 02A-050AO-6 | 2" AO Series sanding disc | 50 |
| 02A-080AO-6 | 2" AO Series sanding disc | 80 |
| 02A-120AO-6 | 2" AO Series sanding disc | 120 |
| 03A-036AO-6 | 3" AO Series sanding disc | 36 |
| 03A-050AO-6 | 3" AO Series sanding disc | 50 |
| 03A-080AO-6 | 3" AO Series sanding disc | 80 |
| 03A-120AO-6 | 3" AO Series sanding disc | 120 |
| VARIETY PACKS | | |
| 02A-VARAO-6 | 2" AO Series sanding disc | 2 ea. 36, 50, 80 |
| 03A-VARAO-6 | 3" AO Series sanding disc | 2 ea. 36, 50, 80 |
| 02A-VARZR-6 | 2" ZR Series sanding disc | 2 ea. 36, 50, 80 |
| 03A-VARZR-6 | 3" ZR Series sanding disc | 2 ea. 36, 50, 80 |
| 02A-VARCO-6 | 2" CO Series sanding disc | 2 ea. 36, 50, 80 |
| 03A-VARCO-6 | 3" CO Series sanding disc | 2 ea. 36, 50, 80 |
| SURFACE CONDITIONING / GASKET REMOVAL (5-PIECE PACKS) | | |
| 02A-VARBR-5 | 2" Surface prep disc | 2 ea. coarse, medium 1 ea. very fine |
| 03A-VARBR-5 | 3" Surface prep disc | 2 ea. coarse, medium 1 ea. very fine |
| QUICK-STRIP — PAINT & CORROSION REMOVAL (3-PIECE PACKS) | | |
| 02A-BSCRS-3 | 2" Surface prep coating removal disc — black | |
| HIGH STRENGTH MEDIUM — BLEND & BUFF | | |
| 02A-MEDBB-3 | 2" Quick-change high-strength buffing discs | |
| 03A-MEDBB-3 | 3" Quick-change high-strength buffing discs | |



Mini Tool Accessories

| Part Number | Description |
|----------------------------------|---|
| MINI POLISHER ACCESSORIES | |
| 03H-PAD-HL | 3" Hook & loop backer pad (fits polisher and RO sander) |
| 03F-SFTWL-6 | 3" Hook & loop wool pad (for compounding) |
| 03F-MEDFM-6 | 3" Hook & loop waffle pad white (for compounding) |
| 03F-SFTFM-6 | 3" Hook & loop waffle pad yellow (for polishing) |



3" Hook & loop backer pad



3" Hook & loop wool pad



3" Hook & loop waffle pad



6-piece box as shown



Mini Tool Sanding Discs

| Part Number | Description | Grit |
|------------------------------------|------------------------------------|------|
| 3" HOOK & LOOP AO PAPER | | |
| 03H-040AO-50 | 3" Hook & loop aluminum oxide disc | 40 |
| 03H-080AO-50 | 3" Hook & loop aluminum oxide disc | 80 |
| 03H-100AO-50 | 3" Hook & loop aluminum oxide disc | 100 |
| 03H-120AO-50 | 3" Hook & loop aluminum oxide disc | 120 |
| 03H-180AO-50 | 3" Hook & loop aluminum oxide disc | 180 |
| 03H-220AO-50 | 3" Hook & loop aluminum oxide disc | 220 |
| 03H-240AO-50 | 3" Hook & loop aluminum oxide disc | 240 |
| 03H-320AO-50 | 3" Hook & loop aluminum oxide disc | 320 |
| 03H-360AO-50 | 3" Hook & loop aluminum oxide disc | 360 |
| 03H-400AO-50 | 3" Hook & loop aluminum oxide disc | 400 |
| 03H-500AO-50 | 3" Hook & loop aluminum oxide disc | 500 |
| 03H-800AO-50 | 3" Hook & loop aluminum oxide disc | 800 |



Pads & Belts

Whatever your surface preparation needs happen to be, we offer a full range of sanding, backing, and polishing pads. Genuine Ingersoll Rand pads are specifically engineered to work at the tolerances of our powerful tools, ensuring you get the best finishes possible.

Sanding and Polishing Pads

| Part Number | Description |
|-------------------------------------|--|
| SANDING & POLISHING PADS | |
| D94SK-228A | 6-1/2" Flexible pad |
| 6135A | 8" Polishing pad, 2" thick polyester foam |
| FLEXIBLE BACKING PADS | |
| 6130A | 7" Flexible backing pad, heavy-duty |
| D94SK-228A | 6-1/2" Flexible pad |
| VINYL PAD | |
| 9860 | 6" Vinyl pad, dual-action backing pad — blister pack |
| STRAIGHT LINE PADS | |
| 312A-A825 | 3-2/3" x 6-3/4" Straight line pad |
| 315-39 | Straight line pad |



Firm pad



Vinyl pad



Straight line pad

| Part Number | Description |
|------------------------------|-------------------------------------|
| BACKING PADS | |
| 313A-825-7 | 7" Rigid backing pad, standard-duty |
| 317A-825 | 3" & 5" backing pads |
| 49095-1 | 5" Duck face pad |
| VACUUM PADS | |
| 49096-1 | 5" Vacuum petal pattern pad |
| VPAD-6 | 6" Vacuum petal pattern pad |
| 49694 | 6" Vacuum hook and loop pattern pad |
| NON-VACUUM PADS | |
| 49094-1 | 5" Non-vacuum vinyl pad |
| 49879-1 | 6" Non-vacuum vinyl pad |
| WOOL POLISHING BONNET | |
| P500-850 | 7" Wool polishing bonnet |



Backing pads



Wool polishing bonnet

Sanding Backing Pads

| Part Number | Description |
|---------------------|----------------|
| SANDING PADS | |
| 49095 | 5" Sanding pad |
| 49097-1 | 6" Sanding |



Sanding pad

Sanding Pad Assemblies

| Part Number | Description |
|--|---|
| SANDING PAD ASSEMBLY | |
| 328B-825-8 | 8" Sanding pad assembly, dual-action backing pad, standard-duty |
| SANDING PAD ASSEMBLIES (MEDIUM) | |
| 77A-AM825-5 | 5" Sanding pad assembly |
| 77A-AM825-7 | 7" Sanding pad assembly |
| SANDING PAD ASSEMBLY (FIRM) | |
| 77A-AM825-9 | 9" Sanding pad assembly |

Sanding Belts

| Part Number | Description | Grit |
|---------------------------------|--------------------------|------|
| 1/4" x 18" SANDING BELTS | | |
| LG1-SB418-60-10 | Pack of 10 sanding belts | 60 |
| LG1-SB418-80-10 | Pack of 10 sanding belts | 80 |
| LG1-SB418-100-10 | Pack of 10 sanding belts | 100 |
| 1/2" x 12" SANDING BELTS | | |
| LG1-SB812-60-10 | Pack of 10 sanding belts | 60 |
| LG1-SB812-80-10 | Pack of 10 sanding belts | 80 |
| LG1-SB812-100-10 | Pack of 10 sanding belts | 100 |
| LG1-SB818-60-10 | Pack of 10 sanding belts | 60 |
| LG1-SB818-80-10 | Pack of 10 sanding belts | 80 |
| LG1-SB818-100-10 | Pack of 10 sanding belts | 100 |



1/4 " x 18" sanding belts



1/2" x 12" sanding belts



1/2" x 18" sanding belts

Cutting Discs

These high quality Type 1 discs are designed for cutting through metal materials. Common applications include cutting exhaust pipes, trimming bolts, and slicing through sheet metal. The fiber reinforcement and the 1/16" thickness produces a disc that cuts quickly but remains durable. For use with any 3/8" arbor cutting tool. Maximum 25,000 RPM speed rating.

Cutting Discs

| Part Number | Size | Max RPM | Quantity |
|-------------|------|---------|----------|
| 9520 | 3" | 25,000 | 5 |
| 9521 | 3" | 25,000 | 50 |



Burs, Stones, & Collets



Carbide Burs & Grinding Stones

Ingersoll Rand carbide burs set the industry standard for quality and are the perfect complements to our innovative grinders and finishing tools. You'll find a complete range of versatile, durable, high-precision burs, in a variety of types and sizes.

Cylindrical-shaped Burs



| Part Number | Type of Cut | Shank | Length of Cut |
|-------------------------------------|-------------|-------|---------------|
| 1/8" CYLINDRICAL-SHAPED BUR* | | | |
| IRSA-11 | Super cut | 1/4" | 1/2" |



| Part Number | Type of Cut | Shank | Length of Cut |
|--------------------------------------|-------------|-------|---------------|
| 1/4" CYLINDRICAL-SHAPED BURS* | | | |
| IRSA-1 | Super cut | 1/4" | 5/8" |
| IRSA-1L | Super cut | 1/4" | 1" |



| Part Number | Type of Cut | Shank | Length of Cut |
|--|-------------|-------|---------------|
| 5/16" CYLINDRICAL-SHAPED BURS** | | | |
| IRSA-2 | Super cut | 1/4" | 3/4" |
| IRSA-2F | Fine cut | 1/4" | 3/4" |



| Part Number | Type of Cut | Shank | Length of Cut |
|---------------------------------------|-------------|-------|---------------|
| 3/8" CYLINDRICAL-SHAPED BURS** | | | |
| IRSA-3 | Super cut | 1/4" | 3/4" |
| IRSA-3F | Fine cut | 1/4" | 3/4" |



| Part Number | Type of Cut | Shank | Length of Cut |
|---------------------------------------|---------------|-------|---------------|
| 1/2" CYLINDRICAL-SHAPED BURS** | | | |
| IRSA-5 | Super cut | 1/4" | 1" |
| IRSA-5EC | Super end cut | 1/4" | 1" |



| Part Number | Type of Cut | Shank | Length of Cut |
|---|-------------|-------|---------------|
| 1/4" CYLINDRICAL-SHAPED BUR (RADIUS NOSE)* | | | |
| IRSC-1 | Super cut | 1/4" | 1" |

*Solid carbide bur.

**Solid carbide bur with steel shank.

Tree-shaped Burs



| Part Number | Type of Cut | Shank | Length of Cut |
|---|-------------|-------|---------------|
| 1/4" TREE-SHAPED (POINTED NOSE)* | | | |
| IRSF-1 | Super cut | 1/4" | 5/8" |



| Part Number | Type of Cut | Shank | Length of Cut |
|--|-------------|-------|---------------|
| 3/8" TREE-SHAPED (POINTED NOSE)** | | | |
| IRSF-3 | Super cut | 1/4" | 3/4" |



| Part Number | Type of Cut | Shank | Length of Cut |
|--|-------------|-------|---------------|
| 1/2" TREE-SHAPED (POINTED NOSE)** | | | |
| IRSF-5 | Super cut | 1/4" | 1" |



| Part Number | Type of Cut | Shank | Length of Cut |
|--|-------------|-------|---------------|
| 5/16" TREE-SHAPED (RADIUS NOSE)** | | | |
| IRSG-2 | Fine cut | 1/4" | 3/4" |

*Solid carbide bur.

**Solid carbide bur with steel shank.

Ball-shaped Burs



| Part Number | Type of Cut | Shank | Length of Cut |
|-------------------------------|-------------|-------|---------------|
| 1/4" BALL-SHAPED BURS* | | | |
| IRSD-1 | Super cut | 1/4" | 1/4" |
| IRSD-3 | Super cut | 1/4" | 3/8" |

*Solid carbide bur with steel shank.

Cone-shaped Burs (radius nose)



| Part Number | Type of Cut | Shank | Length of Cut |
|---|-------------|-------|---------------|
| 5/16" CONE-SHAPED BUR (RADIUS NOSE)* | | | |
| IRSL-2 | Super cut | 1/4" | 3/4" |
| 3/8" CONE-SHAPED BUR (RADIUS NOSE) | | | |
| IRSL-3 | Super cut | 1/4" | 3/8" |

*Solid carbide bur with steel shank.

Multi-shaped Grinding Stone



| Part Number | Shank |
|-------------------------------------|-------|
| MULTI-SHAPED GRINDING STONE* | |
| 9800 | 1/4" |

*Solid in-case pack quantity of 6.

Carbide Grinding Bur Kits

| Bur Style | Shank | Head Diameter |
|------------------------|-------|---------------|
| 1412TiN KITS | | |
| Cylindrical | 1/4" | 1/2" |
| Ball-nosed cylindrical | 1/4" | 1/2" |
| Ball-nosed tree | 1/4" | 1/2" |
| Ball-nosed cone | 1/4" | 1/2" |
| Pointed tree | 1/4" | 1/2" |
| Ball | 1/4" | 1/2" |
| 1438TiN KITS | | |
| Cylindrical | 1/4" | 3/8" |
| Ball-nosed cylindrical | 1/4" | 3/8" |
| Ball-nosed tree | 1/4" | 3/8" |
| Ball-nosed cone | 1/4" | 3/8" |
| Pointed tree | 1/4" | 3/8" |
| Ball | 1/4" | 3/8" |
| 614TiN KITS | | |
| Cylindrical | 1/4" | 3/8" |
| Ball-nosed cylindrical | 1/4" | 3/8" |
| Ball-nosed tree | 1/4" | 3/8" |
| Cylindrical | 1/4" | 1/2" |
| Ball-nosed cylindrical | 1/4" | 1/2" |
| Ball-nosed tree | 1/4" | 1/2" |
| 618TiN KITS | | |
| Cylindrical | 1/8" | 1/4" |
| Ball-nosed cylindrical | 1/8" | 1/4" |
| Ball-nosed tree | 1/8" | 1/4" |
| Cylindrical | 1/8" | 1/8" |
| Ball-nosed cylindrical | 1/8" | 1/8" |
| Ball-nosed tree | 1/8" | 1/8" |
| 1814TiN KITS | | |
| Cylindrical | 1/8" | 1/4" |
| Ball-nosed cylindrical | 1/8" | 1/4" |
| Ball-nosed tree | 1/8" | 1/4" |
| Ball-nosed cylindrical | 1/8" | 1/4" |
| Pointed tree | 1/8" | 1/4" |
| Ball | 1/8" | 1/4" |
| 1816TiN KITS | | |
| Cylindrical | 1/8" | 1/16" |
| Ball-nosed cylindrical | 1/8" | 3/32" |
| Ball-nosed tree | 1/8" | 1/8" |
| Ball-nosed cone | 1/8" | 1/8" |
| Pointed tree | 1/8" | 1/8" |
| Ball | 1/8" | 3/32" |



1412TiN Kit



1438TiN Kit



614TiN Kit



618TiN Kit

| Bur Style | Shank | Head Diameter |
|--------------------------|-------|---------------|
| 1818TiN KITS | | |
| Cylindrical | 1/8" | 1/8" |
| Ball-nosed cylindrical | 1/8" | 1/8" |
| Ball-nosed tree | 1/8" | 1/8" |
| Ball-nosed Cone | 1/8" | 1/8" |
| Pointed tree | 1/8" | 1/8" |
| Ball | 1/8" | 1/8" |
| 814TiN BOXED KITS | | |
| Cylindrical | 1/4" | 1/2 & 3/8" |
| Ball-nosed cylindrical | 1/4" | 1/2 & 3/8" |
| Ball | 1/4" | 1/2 & 3/8" |
| Ball-nosed tree | 1/4" | 1/2 & 3/8" |

This 8-piece carbide bur kit contains the most popular sizes in a durable storage box.

M30TiN BOXED KIT

This 30-piece carbide bur mega set covers a wide range of applications. The kit includes each available bur with 1/8" and 1/4" shank with various head diameters.

NOTE: Burs have a maximum operating speed of 40,000 rpm.



814TiN
Boxed Kit



M30TiN
Boxed Kit

Collets

| Part Number | Size | Where Used |
|----------------------------|------|-----------------------------|
| TAPPER COLLETS | | |
| 2U-103-1/4 | 1/4" | Tappers |
| 4U-103-1/2 | 1/2" | Tappers |
| DIE GRINDER COLLETS | | |
| DG110-700-6MM | 6 mm | Metric die grinder |
| DG110-700-G2 | 1/8" | Die grinder |
| 301-700C | 1/8" | 3102 and 3108 Series |
| DG110-700-G4 | 1/4" | Die grinder |
| G160HD-700-1/4 | 1/4" | Die and horizontal grinders |
| 307-700 | 1/4" | 3102 and 3108 series |
| DG120-700-G6 | 3/8" | Die grinder |

| Part Number | Size | Description | Where Used |
|--|------|----------------------------------|--|
| HORIZONTAL GRINDER COLLET BODY ASSEMBLY | | | |
| DG220-A290-G4 | 1/4" | Replacement collet body assembly | All grinder models ending in G4, except C Series and G1 Series; Pro Series (61H) |



DG110-700-G2



DG120-700-G6



DG220-A290-G6

Air Reciprocating Saw Blades



Air Reciprocating Saw Blades

Ingersoll Rand Air Reciprocating Saw Blades feature Bi-Metal technology, a solid-state diffusion process that applies high-speed steel to both edges of the backing material, increasing the contact area by 170%. This technology, coupled with a new tooth profile, reduces the frictional heat generated during the cutting process resulting in enhanced overall cutting performance.



| Part Number | Description | TPI |
|-------------|---|-------|
| P4FS-6 | 6-Pack — Fine standard pitch air recip saw blade | 32 |
| P4CS-6 | 6-Pack — Coarse standard pitch air recip saw blade | 34 |
| P4EV-6 | 6-Pack — Extra coarse variable pitch air recip saw blade | 14/18 |
| P4FS-20 | 20-Pack — Fine standard pitch air recip saw blade | 32 |
| P4CS-20 | 20-Pack — Coarse standard pitch air recip saw blade | 24 |
| P4EV-20 | 20-Pack — Extra coarse variable pitch air recip saw blade | 14/18 |
| P4FS-50 | 50-Pack — Fine standard pitch air recip saw blade | 32 |
| P4CS-50 | 50-Pack — Coarse standard pitch air recip saw blade | 24 |
| P4EV-50 | 50-Pack — Extra coarse variable pitch air recip saw blade | 14/18 |

Ingersoll Rand blades can be used with all standard 1/2" shank air reciprocating saws.



Drill & Nutrunner Bits



Bits

Our quick change driver bits and related accessories are the perfect complement to our line of fastening tools. All sets come in ballistic nylon accessory cases.

1/4" Hex Bit Sets

| Part Number | Description |
|--|---|
| HXNSK-10E 10-PIECE 2" POWER BIT SAE NUT SETTER KIT | |
| SIZES | 5/32", 3/16", 7/32", 1/4" 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" |
| FEATURES | <ul style="list-style-type: none"> • Quick change hex drive for easy removal • Top-of-the-line magnetics for increased bit retention • Full assortment of sizes to be used on any project |
| HXNSK-9M 9-PIECE 2" POWER BIT METRIC NUT SETTER KIT | |
| SIZES | 5.5 mm, 6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm |
| FEATURES | <ul style="list-style-type: none"> • Quick change hex drive for quick and easy removal • Top-of-the-line magnetics for increase bit retention • Full assortment of sizes to be used on any project |
| HXALK-9E 9-PIECE 2" MAGNETIC POWER BIT SAE ALLEN BIT KIT | |
| SIZES | 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 1/4" |
| FEATURES | <ul style="list-style-type: none"> • Quick change hex drive for quick and easy removal • Made of high quality industrial-grade steel • Magnetic bit increases strength of hold on screw |
| HXALK-9M 9-PIECE 2" MAGNETIC POWER BIT METRIC ALLEN BIT KIT | |
| SIZES | 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 7 mm, 8 mm |
| FEATURES | <ul style="list-style-type: none"> • Quick change hex drive for quick and easy removal • Made of high quality industrial-grade steel • Magnetic bit increases strength of hold on screw |
| HXSQS-2* 2-PIECE POWER BIT SOCKET ADAPTER SET | |
| SIZES | 1/4" square drive adapter, 3/8" square drive adapter |
| FEATURES | <ul style="list-style-type: none"> • Allows addition of sockets to a driver • Magnetic tip allows for great hold on sockets |
| HXCMK-20 20-PIECE POWER BIT COMBO KIT | |
| PIECES | Pieces (2) #1 Phillips, #2 Phillips, #3 Phillips 5/32", 3/16", 1/4", 7/32" power Allen bits #6, #8, #10 slotted driver bits T8, T9, T10, T15, T20, T25, T30 Torx Res driver bits (2) #2 Phillips 3" long |
| FEATURES | <ul style="list-style-type: none"> • Assortment of bits for completion • 3" Phillips bit for hard-to-reach places • Made of high quality industrial-grade steel |



1/4" Hex Bit Sets

| Part Number | Description |
|---|--|
| HXCMK-30 30-PIECE POWER BIT COMBO KIT | |
| PIECES | Pieces (2) #1 Phillips, (2) #2 Phillips, (2) #3 Phillips 1/8", 9/64", 5/32", 3/16", 1/4", 7/32" Allen bits #6, (2) #8, #10 slotted driver bits T8, T9, T10, T15, T20, T25, T30, T40 Torx Res driver bits 1/4" and 3/8" magnetic square drive adapters 1/4", 3/8", 5/16" magnetic nut setters #2 Phillips 3" long |
| FEATURES | <ul style="list-style-type: none"> • Heat-treated, shock-resistant tool steel for optimum durability • Assortment of bits for completion of all tasks • Manufactured using the most advanced processes |
| HXTXK-11 11-PIECE POWER BIT TORX DRIVE SET | |
| SIZES | T5, T6, T7, T8, T9, T10, T15, T20, T25, T30, T40 |
| FEATURES | <ul style="list-style-type: none"> • Tamper-resistant • Quick change hex drive for easy removal • Made of high quality industrial-grade steel |
| BHS-3* 3-PIECE BIT HOLDER SET | |
| SIZES | 2" and 3" magnetic bit holders, 3" drive guide |
| FEATURES | <ul style="list-style-type: none"> • Drive guide for easy screw insertion • Magnetic tips for quick change of standard bits • Heat-treated, shock-resistant tool steel for optimum durability |

*This set does not include case. Comes in blister pack.



1/4" Individual Hex Bits

| Part Number | Description |
|-------------------------------------|--------------------------------------|
| NUT SETTERS | |
| STANDARD (SAE) 2" POWER BITS | |
| 5/32HXNS-E | 5/32" power bit magnetic nut setter |
| 3/16HXNS-E | 3/16" power bit magnetic nut setter |
| 7/32HXNS-E | 7/32" power bit magnetic nut setter |
| 1/4HXNS-E | 1/4" power bit magnetic nut setter |
| 9/32HXNS-E | 9/32" power bit magnetic nut setter |
| 5/16HXNS-E | 5/16" power bit magnetic nut setter |
| 11/32HXNS-E | 11/32" power bit magnetic nut setter |
| 3/8HXNS-E | 3/8" power bit magnetic nut setter |
| 7/16HXNS-E | 7/16" power bit magnetic nut setter |
| 1/2HXNS-E | 1/2" power bit magnetic nut setter |
| METRIC 2" POWER BITS | |
| 7HXNS-M | 7 mm power bit magnetic nut setter |
| 8HXNS-M | 8 mm power bit magnetic nut setter |
| 9HXNS-M | 9 mm power bit magnetic nut setter |
| 10HXNS-M | 10 mm power bit magnetic nut setter |
| 11HXNS-M | 11 mm power bit magnetic nut setter |
| 12HXNS-M | 12 mm power bit magnetic nut setter |
| 13HXNS-M | 13 mm power bit magnetic nut setter |



1/4" Individual Hex Bits

| Part Number | Description |
|--|--|
| ALLEN BITS | |
| STANDARD (SAE) 1" STANDARD BITS | |
| 1/8DBAL-E | 1/8" Allen drill bit |
| 9/64DBAL-E | 9/64" Allen drill bit |
| 5/32DBAL-E | 5/32" Allen drill bit |
| 3/16DBAL-E | 3/16" Allen drill bit |
| 1/4DBAL-E | 1/4" Allen drill bit |
| STANDARD (SAE) 2" POWER BITS | |
| 1/16HXAL-E | 1/16" power magnetic allen bit |
| 5/64HXAL-E | 5/64" power magnetic allen bit |
| 3/32HXAL-E | 3/32" power magnetic allen bit |
| 7/64HXAL-E | 7/64" power magnetic allen bit |
| 1/8HXAL-E | 1/8" power magnetic allen bit |
| 9/64HXAL-E | 9/64" power magnetic allen bit |
| 5/32HXAL-E | 5/32" power magnetic allen bit |
| 3/16HXAL-E | 3/16" power magnetic allen bit |
| 7/32HXAL-E | 7/32" power magnetic allen bit |
| 1/4HXAL-E | 1/4" power magnetic allen bit |
| METRIC 2" POWER BITS | |
| 1.5HXAL-M | 1.5 mm power magnetic Allen bit |
| 2HXAL-M | 2 mm power magnetic Allen bit |
| 2.5HXAL-M | 2.5 mm power magnetic Allen bit |
| 3HXAL-M | 3 mm power magnetic Allen bit |
| 4HXAL-M | 4 mm power magnetic Allen bit |
| 4HXAL-M | 4 mm power magnetic Allen bit |
| 5HXAL-M | 5 mm power magnetic Allen bit |
| 6HXAL-M | 6 mm power magnetic Allen bit |
| 7HXAL-M | 7 mm power magnetic Allen bit |
| 8HXAL-M | 8 mm power magnetic Allen bit |
| HEX TO SQUARE ADAPTERS | |
| 1/4HXSQAD | 1/4" power bit magnetic square drive adapter |
| 3/8HXSQAD | 3/8" power bit magnetic square drive adapter |
| MAGNETIC BIT HOLDERS AND DRIVE GUIDES | |
| 2HXMGBH | 2" magnetic bit holder |
| 3HXMGBH | 3" magnetic bit holder |
| 3HXDRGD | 3" drive guide |
| PHILLIPS BITS | |
| 1" STANDARD BITS | |
| 1DBPH | 1 Philips drill bit |
| 2DBPH | 2 Philips drill bit |
| 2" POWER BITS | |
| 1HXPB | 1 Phillips driver bit |
| 2HXPB | 2 Phillips driver bit |
| 3HXPB | 3 Phillips driver bit |



1/4" Individual Hex Bits

| Part Number | Description |
|--|-------------------------|
| 3" POWER BITS | |
| 2HXP31 | 2 Phillips 3" long |
| SLOTTED BITS | |
| 1" STANDARD BITS | |
| 6DBSL | 6 slotted drill bit |
| 8DBSL | 8 slotted drill bit |
| 2" POWER BITS | |
| 6HXSL | 6 slotted driver bit |
| 8HXSL | 8 slotted driver bit |
| 10HXSL | 10 slotted driver bit |
| TORX BITS TAMPER-RESISTANT T8 ON UP | |
| 1" STANDARD BITS | |
| T10DBTXR | T10 Torx res drill bit |
| T15DBTXR | T15 Torx res drill bit |
| T20DBTXR | T20 Torx res drill bit |
| T25DBTXR | T25 Torx res drill bit |
| TORX BITS TAMPER-RESISTANT T8 ON UP | |
| 2" POWER BITS | |
| T5HXTX | T5 Torx driver bit |
| T6HXTX | T6 Torx driver bit |
| T7HXTXR | T7 Torx res driver bit |
| T8HXTXR | T8 Torx res driver bit |
| T9HXTXR | T9 Torx res driver bit |
| T10HXTXR | T10 Torx res driver bit |
| T15HXTXR | T15 Torx res driver bit |
| T20HXTXR | T20 Torx res driver bit |
| T25HXTXR | T25 Torx res driver bit |
| T30HXTXR | T30 Torx res driver bit |
| T40HXTXR | T40 Torx res driver bit |

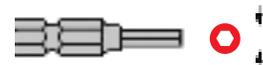
| Part Number | Description | Point Size | Quantity |
|-----------------------------|--|------------|----------|
| PHILLIPS INSERT BIT | | | |
| XPB073 | Phillips bits for 1/4" insert holders | 3 | 5 |
| POZIDRIV™ INSERT BIT | | | |
| XPZB072 | Pozidriv™ bits for 1/4" insert holders | 2 | 5 |

| Part Number | Description |
|----------------------|-------------------------------|
| DETENTED BITS | |
| XF167 | #5 slotted head bit 1-15/16" |
| XF1612 | #12 slotted head bit 1-15/16" |



1/4" Individual Hex Bits

| Part Number | Description | Quantity |
|---------------------------------|------------------------------------|----------|
| PHILLIPS BITS | | |
| XP161 | 1pt 1-15/16" Detented Phillips Bit | 2 |
| XP162 | 2pt 1-15/16" Detented Phillips Bit | 2 |
| XP221 | 1pt 2-3/4" Detented Phillips Bit | 2 |
| XP222 | 2pt 2-3/4" Detented Phillips Bit | 2 |
| XP223 | 3pt 2-3/4" Detented Phillips Bit | 2 |
| REED AND PRINCE HEAD BIT | | |
| XRP161 | 1pt 1-15/16" Detented Phillips Bit | 1 |
| HEX SOCKET HEAD BITS | | |
| HX135 | 1-15/16" 5/32" Hex | 2 |
| HX138 | 1-15/16" 1/4" Hex | 2 |



| Part Number | Description | Length |
|--|----------------------|--------|
| POWER BITS FOR RECESSED HEAD SCREWS | | |
| P283-7 | 3pt Phillips Bit | 3-1/2" |
| P284-7 | 4pt Phillips Bit | 3-1/2" |
| P363-7 | 3pt Phillips Bit | 4-1/2" |
| HX206-7 | 3/16" Hex Allen Head | 3-1/2" |
| HX207-7 | 7/32" Hex Allen Head | 3-1/2" |
| HX208-7 | 1/4" Hex Allen Head | 3-1/2" |
| HX2010-7 | 5/16" Hex Allen Head | 3-1/2" |
| HX2012-7 | 3/8" Hex Allen Head | 3-1/2" |



| Part Number | Description | Quantity |
|----------------------------------|------------------|----------|
| POWER SQUARE INSERT BITS* | | |
| SPB082-5 | 2pt Phillips Bit | 5 |
| SPB083-5 | 3pt Phillips Bit | 5 |
| SPB084-5 | 4pt Phillips Bit | 5 |

Drill Bits & Accessories

No matter what your drilling needs may be, count on Ingersoll Rand for the bits you require to get the job done. We offer a variety of drill bit sets of different material compositions to allow you the flexibility to match the bit to your specific job.

Drill Bit Sets

| Part Number | Description |
|--|--|
| BLACK OXIDE BITS | |
| DBKBO-20E | 20-PIECE FRACTIONAL JOBBER LENGTH DRILL BIT SET |
| These bits are designed for general-purpose, heavy-duty drilling through carbon and alloy steels, aluminum, soft cast iron wood, wood composites, and plastics. | |
| SIZES | (2) 1/16", (2) 5/64", (2) 3/32", (2) 7/64", (2) 1/8", 9/64", 5/32", 11/64", 3/16", 7/32", 1/4", 5/16", 3/8", 7/16", 1/2" |
| FEATURES | <ul style="list-style-type: none"> • High-quality black oxide finish • Made with high-speed steel • Fully ground for superior quality |
| TITANIUM COATED BITS | |
| DBKTI-20E | 20-PIECE TITANIUM FRACTIONAL JOBBER LENGTH DRILL BIT SET |
| These bits dramatically reduce heat and friction, making them last many times longer than other bits. Titanium bits are designed for repetitive heavy-duty drilling through common stainless steels, carbon and alloy steels, aluminum, soft cast iron, wood, wood composites, and plastics. | |
| SIZES | (2) 1/16", (2) 5/64", (2) 3/32", (2) 7/64", (2) 1/8", 9/64", 5/32", 11/64", 3/16", 7/32", 1/4", 5/16", 3/8", 7/16", 1/2" |
| FEATURES | <ul style="list-style-type: none"> • Titanium coating for increased protection • Made with high-speed steel • Fully ground for superior quality |
| COBALT BITS | |
| DBKCB-20E | 20-PIECE COBALT FRACTIONAL JOBBER LENGTH DRILL BIT SET |
| These bits withstand high temperature drilling applications for extended periods of time. They're designed for heavy-duty drilling through hardened stainless steels, cast iron, and titanium. | |
| SIZES | (2) 1/16", (2) 5/64", (2) 3/32", (2) 7/64", (2) 1/8", 9/64", 5/32", 11/64", 3/16", 7/32", 1/4", 5/16", 3/8", 7/16", 1/2" |
| FEATURES | <ul style="list-style-type: none"> • Integrated cobalt for maximum protection and durability • Fully ground for superior quality |



Drill Bit Sets

| Part Number | Description |
|------------------|---|
| SDKTI-3E | 3-PIECE STEP DRILL SET |
| SIZES | 1/8" – 1/2" 1/32" increments, 3/16" – 1/2" 1/16" increments, 1/4" – 3/4" 1/16" increments |
| FEATURES | <ul style="list-style-type: none"> • 1/32" and 1/16" increments for accurately rounded and smooth holes • Titanium-coated to increase working life • Ideal for drilling repetitive holes in steel, copper, brass, plastic, plexiglas, and other materials |
| DDCMK-28E | 28-PIECE DRILL / DRIVE BIT COMBO SET |
| PIECES | 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 3/8" Fractional Jobber Length Drill Bit #6, #8 Slotted Driver Bits T10, T15, T20, T25 Torx Res Drill Bit 1/8", 9/64", 5/32", 3/16", 1/4" Allen Drill Bits 2" Magnetic Bit Holder 3/8" Power Bit Magnetic Square Drive Adapter 1/4", 5/16", 3/8" Power Bit Magnetic Nut Setter |
| FEATURES | • Multiple drill bits and driver bits to allow completion of all tasks |



Individual Drill Bits

| Part Number | | Description | |
|---------------------------------|----------------------------------|---------------|---|
| JOBBER LENGTH DRILL BITS | | | |
| BLACK OXIDE | TITANIUM | COBALT | |
| 1/16DBBO-E | 1/16DBTI-E | 1/16DBCB-E | 1/16" fractional jobber length drill bit |
| 5/64DBBO-E | 5/64DBTI-E | 5/64DBCB-E | 5/64" fractional jobber length drill bit |
| 3/32DBBO-E | 3/32DBTI-E | 3/32DBCB-E | 3/32" fractional jobber length drill bit |
| 7/64DBBO-E | 7/64DBTI-E | 7/64DBCB-E | 7/64" fractional jobber length drill bit |
| 1/8DBBO-E | 1/8DBTI-E | 1/8DBCB-E | 1/8" fractional jobber length drill bit |
| 9/64DBBO-E | 9/64DBTI-E | 9/64DBCB-E | 9/64" fractional jobber length drill bit |
| 5/32DBBO-E | 5/32DBTI-E | 5/32DBCB-E | 5/32" fractional jobber length drill bit |
| 11/64DBBO-E | 11/64DBTI-E | 11/64DBCB-E | 11/64" fractional jobber length drill bit |
| 3/16DBBO-E | 3/16DBTI-E | 3/16DBCB-E | 3/16" fractional jobber length drill bit |
| 7/32DBBO-E | 7/32DBTI-E | 7/32DBCB-E | 7/32" fractional jobber length drill bit |
| 1/4DBBO-E | 1/4DBTI-E | 1/4DBCB-E | 1/4" fractional jobber length drill bit |
| 5/16DBBO-E | 5/16DBTI-E | 5/16DBCB-E | 5/16" fractional jobber length drill bit |
| 3/8DBBO-E | 3/8DBTI-E | 3/8DBCB-E | 3/8" fractional jobber length drill bit |
| 7/16DBBO-E | 7/16DBTI-E | 7/16DBCB-E | 7/16" fractional jobber length drill bit |
| 1/2DBBO-E | 1/2DBTI-E | 1/2DBCB-E | 1/2" fractional jobber length drill bit |
| STEP DRILL BITS | | | |
| 1/8-1/2SD-E | 1/8" – 1/2" in 1/32" increments | | |
| 3/16-1/2SD-E | 3/16" – 1/2" in 1/16" increments | | |
| 1/4-3/4SD-E | 1/4" – 3/4" in 1/16" increments | | |

Drill Adapters

| Part Number | Thread Size | Morse Taper Number | Drive Size |
|-----------------------------|-------------|--------------------|------------|
| SQUARE DRIVE ADAPTER | | | |
| R0H-P212-3/8 | 3/8" x 24 | - | 3/8" |
| SOCKET ADAPTERS | | | |
| R4J-214 3 3/4" | - | 3 | 3/4" |
| R5SM-214 | - | 5 | 1" |
| QUICK CHANGE ADAPTER | | | |
| R0H-A925-4 | 3/8" x 24 | - | 1/4" |



Drill Chucks

| Part Number | Chuck Size | Thread Size | Corresponding Chuck Key |
|-----------------------------|-------------------------|-------------|-------------------------|
| DRILL CHUCKS | | | |
| 7802-99 | 0 – 3/8" | 3/8" x 24 | R00B2J70-J253 |
| 7803-99 | 0 – 1/2" | 3/8" x 24 | R1T-J253 |
| R1N-99A | 0 – 1/2" | 1/2" x 20 | - |
| KEYLESS CHUCKS | | | |
| 728-99-KC5 | 0 – 3/8" Keyless | 3/8" x 24 | - |
| 728-99-KC8 | 0 – 1/2" Keyless | 3/8" x 24 | - |
| STANDARD-DUTY CHUCKS | | | |
| 7801-99-6 | 0 – 3/8" Standard-duty | 3/8" x 24 | 728N-253 |
| 7806-99-8 | 0 – 1/2" Standard-duty | 3/8" x 24 | 728N-253 |
| MEDIUM-DUTY CHUCKS | | | |
| R0H-99 | 0 – 1/4" Medium-duty | 3/8" x 24 | R1H-J253 |
| HEAVY-DUTY CHUCKS | | | |
| 6A-99 | 0 – 3/8" Heavy-duty | 3/8" x 24 | R0J-J253 |
| R00A-99 | 0 – 1/4" Heavy-duty | 3/8" x 24 | R00A-J253 |
| R0K-99 | 5/64" – 1/2" Heavy-duty | 3/8" x 24 | R1T-J253 |



| Part Number | Drive Size (female) | Hex Chuck Size (female) |
|----------------------------------|---------------------|-------------------------|
| POWER QUICK CHANGE CHUCKS | | |
| 2U-A925-4 | 3/8" | 1/4" |
| 502-A925-7 | 3/8" | 7/16" |
| 4U-A925-7 | 1/2" | 7/16" |

Large Drill Accessories

| Part Number | Description | For Use With |
|--|----------------------------------|-----------------|
| SQUARE DRIVE SOCKET ADAPTER | | |
| DE-215A | 1/2" Square drive socket adapter | Series 22 |
| CHUCKS & NUTS | | |
| DE-99C | 3-jaw key chuck | Series 22 |
| T05-99A | 3-jaw key chuck | Series 2X |
| T12-347 | Chuck nut | Series 3S & 33S |
| TA-461 | Nut | Series 551S |
| MORSE TAPER SOCKET | | |
| DE-323A-2 # | 2 Morse taper socket | Series 22 |
| WOOD BIT CHUCKS & ACCESSORIES | | |
| K-27 | Wood bit chuck wrench | Series 2X & 22 |
| R33SW-151-1/2 | Wood bit chuck | Series 3S |
| TA-A291 | Wood bit chuck assembly | Series 551S |
| LARGE DRILL ACCESSORIES | | |
| TC-365 | Suspension ring | Series 3S & 33S |



DE-215A



DE-99C



T05-99A



T12-347



TA-461



DE-323A-2



R33SW-151-1/2



K-27



TC-365

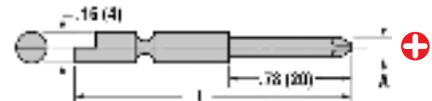
Nutrunner Bits and Accessories

Ingersoll Rand nutrunner bits and accessories are designed to enhance the productivity and performance of your light assembly tools. These rugged nutrunner bits are available in a variety of sizes to satisfy all your fastening needs.

Vacuum Pick-Up Sleeves

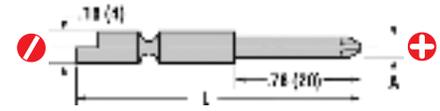
| Part Number | Complementing Bit Part Number | Inside Diameter in (mm) | Outside Diameter in (mm) |
|-------------------------------|---------------------------------------|-------------------------|--------------------------|
| VACUUM PICK-UP SLEEVES | | | |
| DLS2120 | DLB2122-10 | .079" (2.0) | .138" (3.5) |
| DLS2122 | DLB2122-10 | .098" (2.5) | .138" (3.5) |
| DLS2123 | DLB2122-10 | .106" (2.7) | .138" (3.5) |
| DLS2124 | DLB2122-10 | .122" (3.1) | .138" (3.5) |
| DLS2125 | DLB2124-10 | .130" (3.3) | .177" (4.5) |
| DLS2126 | DLB2124-10 | .138" (3.5) | .177" (4.5) |
| DLS2127 | DLB2124-10 | .146" (3.7) | .177" (4.5) |
| DLS2128 | DLB2126-10 | .158" (4.0) | .177" (4.5) |
| DLS2129 | DLB2126-10 | .165" (4.2) | .212" (5.5) |
| DLS2130 | DLB2126-10 | .177" (4.5) | .212" (5.5) |
| DLS2131 | DLB2128-10, DLB2130-10, XP161, XRP161 | .185" (4.7) | .212" (5.5) |
| DLS2132 | DLB2128-10, DLB2130-10, XP161, XRP161 | .201" (5.1) | .212" (5.5) |
| DLS2133 | DLB2128-10, DLB2130-10, XP161, XRP161 | .209" (5.3) | .256" (6.5) |
| DLS2134 | DLB2128-10, DLB2130-10, XP161, XRP161 | .221" (5.6) | .256" (6.5) |
| EL0410BC-53 | DLB2128-10, DLB2130-10, XP161, XRP161 | .240" (6.1) | .267" (7.0) |

For use with DC electric screwdriver models EL0410BC and EL1007BC.

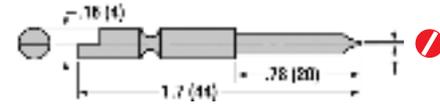


Slotted Screwdriver Bits

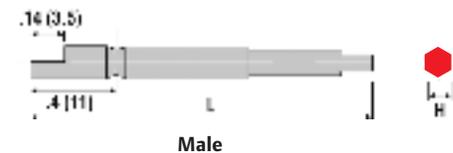
| Part Number (quantity 10) | Point Size | "A" Diameter in (mm) | "L" Length | Screw Size Range | Quantity |
|------------------------------|---------------|----------------------------|---------------|---------------------|----------|
| DETENTED BITS | | | | | |
| DLB2120-10 | 0 | .069" (1.753) | 1.7" | 0 - 1 | 10 |
| DLB2121-10 | 0 | .069" (1.753) | 2.5" | 0 - 1 | 10 |
| DLB2122-10 | 00 | .074" (1.880) | 1.7" | 00 - 0 | 10 |
| DLB2123-10 | 00 | .077" (1.956) | 2.5" | 00 - 0 | 10 |
| DLB2124-10 | 0 | .096" (2.438) | 1.7" | 0 - 1 | 10 |
| DLB2125-10 | 0 | .096" (2.438) | 2.5" | 0 - 1 | 10 |
| DLB2126-10 | 1 | .117" (2.972) | 1.7" | 2 - 4 | 10 |
| DLB2127-10 | 1 | .118" (2.997) | 2.5" | 2 - 4 | 10 |
| DLB2128-10 | 1 | .156" (3.962) | 1.7" | 2 - 4 | 10 |
| DLB2129-10 | 1 | .157" (3.988) | 2.5" | 2 - 4 | 10 |
| DLB2130-10 | 2 | .156" (3.962) | 1.7" | 5 - 10 | 10 |
| DLB2131-10 | 2 | .157" (3.988) | 2.5" | 5 - 10 | 10 |
| DLB2132-10 | 3 | .235" (5.969) | 1.7" | 10 - 1/4 | 10 |



| Part Number | T Size | "A" Diameter in (mm) | "L" Length | Screw Size Range | Quantity |
|------------------|-----------|----------------------------|---------------|---------------------|----------|
| SLOT BITS | | | | | |
| DLB2220-10 | 0.012 | .078" (1.981) | 1.7" | 00 - 0 | 10 |
| DLB2221-10 | 0.012 | .097" (2.464) | 1.7" | 00 - 0 | 10 |
| DLB2222-10 | 0.016 | .116" (2.946) | 1.7" | 0 - 2 | 10 |
| DLB2223-10 | 0.02 | .157" (3.988) | 1.7" | 2 - 4 | 10 |
| DLB2224-10 | 0.026 | .196" (4.987) | 1.7" | 3 - 5 | 10 |



| Part Number | Srew Size | "H" Hex Size in (mm) | "L" Length | Use Diagram | Quantity |
|---------------------------------|--------------|----------------------------|---------------|----------------|----------|
| HEXAGON, MALE AND FEMALE | | | | | |
| DLB2321-10 | 0.12 | .06" | (1.5) 1.7" | Male | 10 |
| DLB2322-10 | 0.16 | .08" | (2) 1.7" | Male | 10 |
| DLB2323-10 | 0.24 | .12" | (3) 1.7" | Male | 10 |
| DLB2324-10 | 0.31 | .16" | (4) 1.7" | Male | 10 |
| DLB2420-10 | - | .09" | (2.3) 1.7" | Female | 10 |
| DLB2421-10 | - | .10" | (2.5) 1.7" | Female | 10 |
| DLB2422-10 | - | .12" | (3) 1.7" | Female | 10 |
| DLB2423-10 | 0.08 | .16" | (4) 1.7" | Female | 10 |
| DLB2424-10 | 0.09 | .18" | (4.5) 1.7" | Female | 10 |
| DLB2425-10 | 0.1 | .20" | (5) 1.7" | Female | 10 |
| DLB2426-10 | 0.12 | .22" | (5.5) 1.7" | Female | 10 |



Male



Female

Screwdriver and Nutrunner Accessories

| Part Number | Description |
|------------------------------------|----------------------------|
| BITS WITH ROTATING FINDERS* | |
| XR306 | #6 slotted head bit |
| XR308 | #8 slotted head bit |
| XR3010 | #10 slotted head power bit |
| XR3012 | #12 slotted head power bit |

*For use with all screwdriver models.



| Part Number | Description | Size |
|---------------------|-------------------------|-------------------|
| SHAKER BOXES | | |
| DLW3402 | Round metal box | 3-15/16" diameter |
| DLW3602 | Rectangular plastic box | 5-1/2" x 3-7/8" |
| DLW3802 | Rectangular plastic box | 6-11/16" x 4-7/8" |



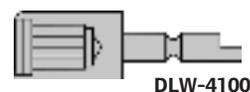
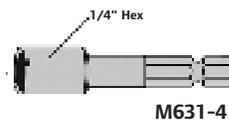
| Part Number | Bit Size | Square Driver Size |
|-----------------------------------|--------------|--------------------|
| POWER SCREWDRIVER ADAPTERS | | |
| 2U-812 | 5/16" Square | 3/8" |
| 4U-812 | 5/16" Square | 1/2" |



| Part Number | Description |
|--------------------------------------|--------------------------------|
| DETENTED NON-ROTATING FINDERS | |
| F167F1 | Non-rotating finder for XF167 |
| F1612F1 | Non-rotating finder for XF1612 |



| Part Number | Description | For Use With |
|---------------------------|--------------------|------------------------|
| INSERT BIT HOLDERS | | |
| M631-4 | Magnetic | All screwdriver models |
| RX2-631-4 | Non-magnetic | All screwdriver models |
| DLW-4100 | Slotted bit holder | EL0109B |



Spring Balancers



Spring Balancers

Featuring **gravity-free** effect on intermediate-duty, heavy-duty, and super-duty models to allow users to move tool with minimal effort along cable travel. Experience the effect of tool float.

Hose Reel Balancers

0.875 to 5.5 lb Capacity

Features

- Aluminum body
- Polyurethane hose
- Adjustable capacity
- Adjustable stroke limiting device
- Designed for one-way shutoff operation



| |  |  | SWL  |  |  |
|-------------------|---|---|---|---|---|
| Model | lb (kg) | ft (m) | lb (kg) | NPT in | cfm |
| BHR SERIES | | | | | |
| BHR-8 | 2.57 (1.17) | 4-1/4" (1295) | 0.9 – 1.7 (0.3 – 0.7) | 1/4" | 18.4 |
| BHR-15 | 2.6 (1.2) | 4-1/4" (1295) | 1.5 – 3.3 (0.6 – 1.5) | 1/4" | 18.4 |
| BHR-25 | 2.9 (1.34) | 4-1/4" (1295) | 2.6 – 5.5 (1.1 – 2.4) | 1/4" | 18.4 |

Light-Duty Balancers

0.9 to 6.6 lb Capacity

Features

- Rugged construction, cast aluminum body
- Stainless-steel cable; nylon cable option available for the 2.2 lb (1 kg) capacity model; order BLD1/P for this option
- Adjustable capacity
- Adjustable stroke limiting device
- Cable guide in anti-friction material
- Upper suspension shackle included on balancer for ease of installation



| |  |  | SWL  |
|-------------------|---|---|---|
| Model | lb (kg) | ft (m) | lb (kg) |
| BLD SERIES | | | |
| BLD1 | 1.3 (0.6) | 5.2' (1600) | 0.9 – 2.2 (0.4 – 1) |
| BLD2 | 1.3 (0.6) | 5.2' (1600) | 2.2 – 4.4 (1 – 2) |
| BLD3 | 1.3 (0.7) | 5.2' (1600) | 4.4 – 6.6 (2 – 3) |

Medium-Duty Short Cable Balancers

2.2 to 17.6 lb Capacity

Features

- Rugged construction, cast aluminum body
- Stainless-steel cable
- Adjustable capacity
- Safety device against load dropping due to the spring breakage (>3 kg); not available on model BMDS-2
- Adjustable stroke limiting device
- Cable guide in anti-friction material
- Upper suspension shackle included on balancer for ease of installation



| |  |  | SWL  |
|-------------------|---|---|---|
| Model | lb (kg) | ft (m) | lb (kg) |
| BMD SERIES | | | |
| BMDS-2 | 4.4 (2) | 6.5' (2000) | 2.2 – 5.5 (1 – 2.5) |
| BMDS-4 | 4.4 (2) | 6.5' (2000) | 4.4 – 8.8 (2 – 4) |
| BMDS-6 | 5.1 (2.3) | 6.5' (2000) | 8.8 – 13.2 (4 – 6) |
| BMDS-8 | 5.5 (2.5) | 6.5' (2000) | 13.2 – 17.6 (6 – 8) |

SWL = Safe Working Load

Medium-Duty Long Cable Balancers

4.4 to 30 lb Capacity

Features

- Rugged construction, cast aluminum body
- Stainless-steel cable
- Adjustable capacity
- Safety device against load dropping due to the spring breakage (>3 kg)
- Adjustable stroke limiting device
- Cable guide in anti-friction material
- Upper suspension shackle included on balancer for ease of installation



| |  |  |  |
|--------------------|---|---|---|
| Model | lb (kg) | ft (m) | lb (kg) |
| BMDL SERIES | | | |
| BMDLN-4 | 6.4 (2.9) | 8.2' (2500) | 4.4 – 8.8 (2 – 4) |
| BMDLN-6 | 7.1 (3.2) | 8.2' (2500) | 8.8 – 13.2 (4 – 6) |
| BMDLN-8 | 7.7 (3.5) | 8.2' (2500) | 13.2 – 17.6 (6 – 8) |
| BMDLN-10 | 8.2 (3.7) | 8.2' (2500) | 17.6 – 22 (8 – 10) |
| BMDLN-12 | 8.8 (4) | 8.2' (2500) | 22 – 30 (10 – 13.6) |

Medium-Duty Locking Long Cable Balancers

4.4 to 22 lb Capacity

Features

- Rugged construction, cast aluminum body
- Stainless-steel cable
- Adjustable capacity
- Safety device against load dropping due to the spring breakage (>3 kg)
- Adjustable stroke limiting device
- Cable guide in anti-friction material
- Equipped with a ratchet locking device to prevent load from retracting when cable is extended
- Upper suspension shackle included on balancer for ease of installation



| |  |  |  |
|---------------------|--|---|---|
| Model | lb (kg) | ft (m) | lb (kg) |
| BMDLL SERIES | | | |
| BMDLLN-4 | 6.6 (3) | 8.2' (2500) | 4.4 – 8.8 (2 – 4) |
| BMDLLN-6 | 7.3 (3.3) | 8.2' (2500) | 8.8 – 13.2 (4 – 6) |
| BMDLLN-8 | 7.9 (3.6) | 8.2' (2500) | 13.2 – 17.6 (6 – 8) |
| BMDLLN-10 | 8.4 (3.8) | 8.2' (2500) | 17.6 – 22.0 (8 – 10) |

Intermediate-Duty Balancers

8.8 to 55 lb Capacity

Features

- Gravity-free suspension capability
- Ribbed and sealed monobloc construction in aluminum alloy
- Stainless-steel cable
- Safety device against load dropping due to the spring breakage (>3 kg)
- Locking device to block the load at any height
- Upper rotary suspension with safety hook
- Adjustable stroke limiting device
- Cable guide in anti-friction material



| |  |  |  |
|-------------------|---|---|---|
| Model | lb (kg) | ft (m) | lb (kg) |
| BID SERIES | | | |
| BIDS-7 | 5 (2.3) | 6.5' (2000) | 8.8 – 15.4 (4 – 7) |
| BIDS-10 | 5.5 (2.5) | 6.5' (2000) | 15.4 – 22 (7 – 10) |
| BIDS-14 | 5.5 (2.5) | 6.5' (2000) | 22 – 30.8 (10 – 14) |
| BIDS-18 | 6.5 (2.9) | 6.5' (2000) | 30.8 – 39.6 (14 – 18) |
| BIDS-22 | 6.5 (2.9) | 6.5' (2000) | 39.6 – 48.4 (18 – 22) |
| BIDS-26 | 6.5 (2.9) | 6.5' (2000) | 48.4 – 55 (22 – 25) |

Heavy-Duty Balancers

22 to 143 lb Capacity

Features

- Gravity-free suspension capability
- Ribbed and sealed monobloc construction in aluminum alloy
- Stainless-steel cable
- Safety device against load dropping due to the spring breakage (>3 kg)
- Upper rotary suspension with safety hook
- Locking device to block the load at any height
- Adjustable stroke limiting device
- Cable guide in anti-friction material



| |  |  |  |
|-------------------|--|---|---|
| Model | lb (kg) | ft (m) | lb (kg) |
| BHD SERIES | | | |
| BHD-15 | 22.7 (10.3) | 6.5' (2000) | 22 – 33 (10 – 15) |
| BHD-20 | 23.4 (10.6) | 6.5' (2000) | 33 – 44 (15 – 20) |
| BHD-25 | 24.7 (11.2) | 6.5' (2000) | 44 – 55 (20 – 25) |
| BHD-30 | 25.4 (11.5) | 6.5' (2000) | 55 – 66 (25 – 30) |
| BHD-35 | 26 (11.8) | 6.5' (2000) | 66 – 77 (30 – 35) |
| BHD-45 | 27.3 (12.4) | 6.5' (2000) | 77 – 99 (35 – 45) |
| BHD-55 | 27.6 (12.5) | 6.5' (2000) | 99 – 121 (45 – 55) |
| BHD-65 | 30 (13.6) | 6.5' (2000) | 121 – 143 (55 – 65) |

SWL = Safe Working Load

Super-Duty Balancers

33 to 363 lb Capacity

Features

- Gravity-free suspension capability
- Ribbed and sealed monobloc construction in aluminum alloy
- Stainless-steel cable
- Safety device against load dropping due to the spring breakage (>3 kg)
- Upper rotary suspension with safety hook
- Locking device to block the load at any height
- Adjustable stroke limiting device
- Cable guide in anti-friction material
- Visible cable for inspection



| Model | lb (kg) | ft (m) | SWL lb (kg) | Dimension Type |
|-------------------|--------------|-------------|-----------------------|-------------------|
| BSD SERIES | | | | |
| BSD-20 | 41.9 (18.6) | 8.2' (2500) | 33 - 44 (15 - 20) | A |
| BSD-30 | 43.7 (19.8) | 8.2' (2500) | 44 - 66 (20 - 30) | A |
| BSD-40 | 45.9 (20.8) | 8.2' (2500) | 66 - 88 (30 - 40) | A |
| BSD-50 | 52.7 (23.9) | 8.2' (2500) | 88 - 110 (40 - 50) | A |
| BSD-60 | 56 (25.4) | 8.2' (2500) | 110 - 132 (50 - 60) | A |
| BSD-70 | 59.1 (26.8) | 8.2' (2500) | 132 - 154 (60 - 70) | B |
| BSD-80 | 61.3 (27.8) | 8.2' (2500) | 154 - 176 (70 - 80) | B |
| BSD-90 | 63.5 (28.8) | 8.2' (2500) | 176 - 198 (80 - 90) | B |
| BSD-100 | 78.5 (35.6) | 8.2' (2500) | 198 - 220 (90 - 100) | C |
| BSD-120 | 85.3 (38.8) | 8.2' (2500) | 220 - 265 (100 - 120) | C |
| BSD-140 | 92.2 (41.8) | 8.2' (2500) | 265 - 309 (120 - 140) | C |
| BSD-150 | 98.1 (44.5) | 8.2' (2500) | 287 - 330 (130 - 150) | C |
| BSD-165 | 106.3 (48.2) | 8.2' (2500) | 330 - 363 (150 - 165) | C |

Super-Duty Long Cable Balancers

33 to 330 lb Capacity

Features

- Safety device prevents load dropping
- Upper suspension with rotary safety hook
- Precision-guided cable-winding prevents jamming
- Anti-friction cable guide
- Manual locking device for instant clamping or release
- Worm screw capacity adjustment
- Alignable rotating upper hook
- Cable replacement without balancer disassembly
- Cable visible for inspection



| Model | lb (kg) | ft (m) | SWL lb (kg) | Dimension Type |
|--------------------|--------------|-------------|-----------------------|-------------------|
| BSDL SERIES | | | | |
| BSD-20 | 42.1 (19.1) | 9.8' (3000) | 33 - 44 (15 - 20) | A |
| BSD-25 | 43.9 (19.9) | 9.8' (3000) | 44 - 55 (20 - 25) | A |
| BSD-35 | 46.1 (20.9) | 9.8' (3000) | 55 - 77 (25 - 35) | A |
| BSD-45 | 52.5 (23.8) | 9.8' (3000) | 77 - 99 (35 - 45) | B |
| BSD-50 | 52.7 (23.9) | 9.8' (3000) | 99 - 110 (40 - 50) | B |
| BSD-60 | 55.8 (25.3) | 9.8' (3000) | 110 - 132 (50 - 60) | B |
| BSD-70 | 58.9 (26.7) | 9.8' (3000) | 132 - 154 (60 - 70) | B |
| BSD-80 | 61.7 (28) | 9.8' (3000) | 154 - 176 (70 - 80) | B |
| BSD-90 | 64 (29) | 9.8' (3000) | 176 - 198 (80 - 90) | B |
| BSD-100 | 81.1 (36.8) | 9.8' (3000) | 198 - 220 (90 - 100) | C |
| BSD-115 | 85.3 (38.7) | 9.8' (3000) | 220 - 254 (100 - 115) | C |
| BSD-130 | 88 (39.9) | 9.8' (3000) | 254 - 286 (115 - 130) | C |
| BSD-140 | 94.4 (42.8) | 9.8' (3000) | 286 - 309 (130 - 140) | C |
| BSD-150 | 100.6 (45.6) | 9.8' (3000) | 309 - 330 (140 - 150) | C |

Balancer Support Systems — Trolleys

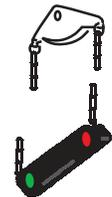
Spring Balancer Series

| Rail Type | Trolley Model | | |
|-----------|-------------------|------------|------------|
| | Intermediate-Duty | Heavy-Duty | Super-Duty |
| ZRA1 | ZHS30304 | ZHS30313 | ZHS30313 |
| ZRA2 | 30923 | ZHS30314 | ZHS30314 |
| ZRS2/3 | 30842 | ZHS30315 | ZHS30315 |
| I-Beam | PT005-8 | PT005-8 | PT005-8 |

Balancer Accessories

Floor-Controlled Locking Device

A floor-controlled locking device is available, making it easier to change suspended loads without tension adjustment. The simplicity of this device will minimize downtime when changing a suspended load for a given balancer. Once installed, turn the handle toward red to lock the drum. After load is changed, turn handle toward green to unlock the drum.

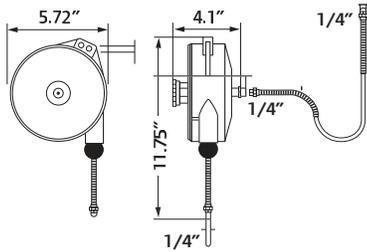


| Model | Used With |
|----------|-------------------------|
| BIL-7343 | Heavy-duty (BHD) |
| BIL-3224 | Super-duty (BSD & BSDL) |

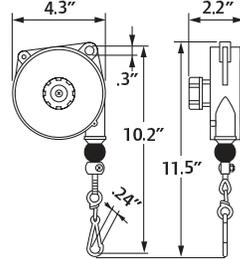
SWL = Safe Working Load

Dimensional Info

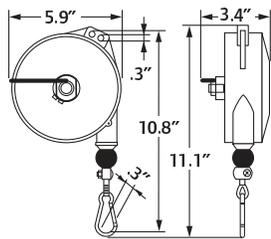
BHR Series



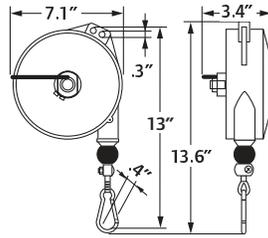
BLD Series



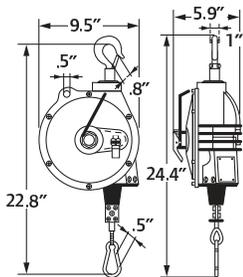
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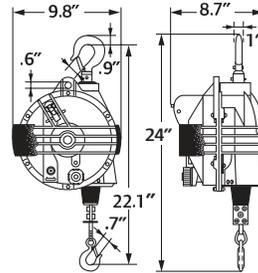
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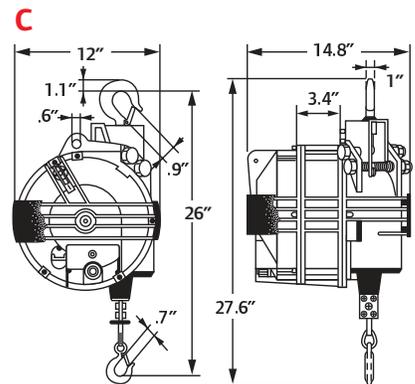
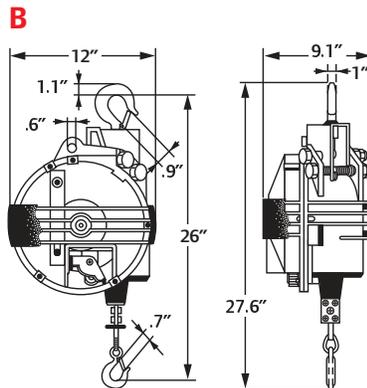
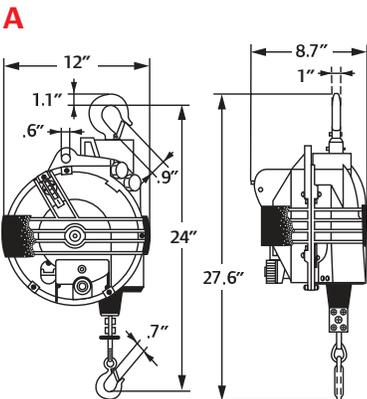
BIDS Series



BHD Series



BSD Series



Torque Reaction Arms



Torque Reaction Arms

Bench-mounted QTA Torque Arms

Ingersoll Rand QTA bench-mounted torque reaction arms are constructed of lightweight aluminum and are available in a variety of torque capacities, ranging from 10 to 150 Nm. They include an Ingersoll Rand spring-loaded, die-cast aluminum balancer for impressive strength and reduced weight.

Spring balancer adjusts easily and offers effortless vertical movement.

Simple, proven design for trouble-free setup and dependability.

Anodized aluminum body delivers toughness in a lightweight design.

Chrome-plated pole paired with a self-lubricating bearing, provides unmatched durability.

Position arm at 90° angle for optimum torque reaction performance. Arm should not be used in fully extended or fully collapsed position as this reduces reaction capabilities.

Cable or air line clamps keep work area clear and organized.

Multiple-tool holder options include right angle, swivel, and pistol grip.

Custom tool holder options enable seamless integration with Ingersoll Rand QA and QE tools

Adjustable reach for easy use and convenience when locating fasteners

Torque Reaction Arms

| | Max ft-lbs | SWL | Max. Working Reach | Working Reach | H |
|--------|-------------|--------------|--------------------|---------------|--------------|
| Model | ft-lb (Nm) | lb (kg) | in (mm) | in (mm) | in (mm) |
| QTA010 | 7.4 (10) | 2.64 (1.20) | 15" (381) | 13.0" (330) | 27.8" (706) |
| QTA020 | 14.8 (20) | 5.00 (2.27) | 20" (508) | 14.5" (368) | 31.8" (808) |
| QTA040 | 29.5 (40) | 6.50 (2.95) | 25" (635) | 17.5" (445) | 39.7" (1008) |
| QTA100 | 73.8 (100) | 8.00 (3.63) | 30" (762) | 17.5" (445) | 39.7" (1008) |
| QTA150 | 110.6 (150) | 10.00 (4.54) | 52" (1321) | 22.0" (559) | 78.7" (2000) |



NOTE: QTA150 is adjustable to mount to the floor or a bench and does not include a tool holder.
SWL = Safe Working Load.

Bench-mounted Arm Accessories

Torque arm accessories include inverse mounting kits to provide mounting to overhead structure and upper pole clamps that help limit travel of the bearing and add support to the top of the arm. Use the table below to select the proper accessory for each torque arm.

| Accessories | Torque Arms | | | |
|----------------------|-------------|--------|--------|--------|
| | QTA010 | QTA020 | QTA040 | QTA100 |
| Inverse mounting kit | IMK010 | IMK020 | IMK100 | IMK100 |
| Upper pole clamp | PUC010 | PUC020 | PUC100 | PUC100 |



Floor-mounted QTA Torque Arms

When high-torque fastening is required, Ingersoll Rand has two floor-mounted, air-enabled arms from which to choose, with 270 and 475 Nm capacities.

Generous arm length makes QTA ideal for assembly line applications.

Adjustable height control delivers flexibility for virtually any application.



Safety stop eliminates over-extending arms.

Ingersoll Rand air regulator included with QTA270 and QTA475 arms.

Custom tool holder options permit use with Ingersoll Rand QA and QE tools.

Simple design ensures easy, effective setup and use.



QTA150 Bench Mount

QTA150 Floor Mount

Solid, steel-frame construction for rugged dependability

QTA150 can be easily configured for either a bench-mounted or floor-mounted torque arm, and reconfigured as the job demands.

| Model | Max. ft-lb (Nm) | SWL lb (kg) | Max. Working Reach in (mm) | in (mm) | in (mm) |
|--------|-----------------|-------------|----------------------------|-------------|--------------|
| QTA150 | 110.6 (150) | 10.0 (4.5) | 52" (1321) | 22.0" (559) | 78.7" (2000) |
| QTA270 | 199 (270) | 22.0 (10.0) | 60" (1524) | 18.8" (477) | 78.7" (2000) |
| QTA475 | 350 (475) | 50.6 (23.0) | 79" (2007) | 23.2" (590) | 78.7" (2000) |

Note: Arms above do not include tool holders (please refer to the following page for holders for your Ingersoll Rand tools).
SWL = Safe Working Load

QTA270 model shown

Torque Reaction Arms

Torque Arm Tool Holders



Right angle



Pistol



Rotating



Push-to-start



1/4" NPT



Angle or inline

| Tool Holders | Torque Arms | | | |
|----------------------------|-------------|-----------|-----------|-----------|
| | QTA010 | QTA020 | QTA040 | QTA100 |
| Inline (included with arm) | ITC010-1C | ITC040-1C | ITC040-1C | ITC100-1C |
| Right angle | ATC010-1C | ATC040-1C | ATC040-1C | ATC100-1C |
| Pistol | PTC010-1C | PTC040-1C | PTC040-1C | - |
| Rotating | RTC010-1C | RTC040-1C | RTC040-1C | - |
| 1/4" NPT | NTC010-1T | - | - | - |

Generic tool holders are not available for arms 150 Nm and above.

Flange mounting is recommended for in-line tools with torque capacity above 40 Nm.

Note the tool diameter range for generic holders:

QTA010: 25 – 40 mm (1" – 1.57")

QTA020 / QTA040 / QTA100: 28 – 52 mm (1.1" – 2")

Ingersoll Rand QA Series and QE Series Tool Holders

| Tools | Torque Arms | | | | | | |
|--|-------------|------------|------------|------------|------------|------------|------------|
| | QTA010 | QTA020 | QTA040 | QTA100 | QTA150 | QTA270 | QTA475 |
| QA4 (angle) | - | CTC040-K6B | CTC040-K6B | CTC100-K6B | - | - | - |
| QA4 (27 Nm max inline) & QA6 | - | CTC040-K1B | CTC040-K1B | CTC100-K1B | - | - | - |
| QA4 (46 Nm inline) | - | - | - | CTC100-K2B | - | - | - |
| QA8 (150 Nm max angle, 55 Nm max inline) | - | - | CTC040-K1B | CTC100-K1B | CTC150-K2B | - | - |
| QA8 (above 150 Nm angle, above 55 Nm inline) | - | - | - | CTC100-K2B | CTC150-K3B | CTC270-K3B | - |
| QE4 (non-push-to-start) | - | CTC040-K1B | CTC040-K1B | - | - | - | - |
| QE4 (push-to-start) | CTC040-K1P | CTC040-K1P | CTC040-K1P | - | - | - | - |
| QE6 | - | CTC040-K2B | CTC040-K2B | CTC100-K2B | - | - | - |
| QE8 (using bolt-on flange GEM120-K48) | - | - | - | CTC100-K2B | CTC150-K2B | - | - |
| QE8 (using integrated flanged gear case) | - | - | - | CTC100-K3B | CTC150-K3B | CTC270-K3B | - |
| QE8 (230 Nm in-line) | - | - | - | - | - | CTC270-K4B | - |
| QE8 (400 Nm angle) | - | - | - | - | - | - | CTC475-K5B |

Note: Every Ingersoll Rand QE- or QA-specific tool holder listed in the table above accepts both angle and inline tools but requires an integrated flanged gear case or bolt-on mounting flange to attach the tool holder to the tool. If your tool came with mounting style "P," "R," or "J," order Part No. 15E4-K48 for any Ingersoll Rand-specific tool holder that ends with "1B." Order Part No. GEM120-K48 for any Ingersoll Rand-specific tool holder that ends with "2B." Order Part No. QA4-K48 for any Ingersoll Rand-specific tool holder that ends with "6B."

Light-Duty Work Arms

These steel-constructed, lightweight workstations offer the operator tool flexibility while supporting the tool weight. Add a torque absorber rod to help relieve minor torque reaction forces while fastening.

| Model | Description |
|-----------|--|
| IRBS3-EO | Basic station (no absorber) |
| IRBS3-N30 | Air tool station with torque absorber |
| IRBS3-E30 | Electric tool station with torque absorber |

Note: Workstations do not include tool, spring balancer, air hose, or FRL. All must be purchased separately.



Grips & Braces



Grips & Braces

Grips and braces are designed to provide comfort and better control while using the tool. They help minimize reaction forces and vibrations to prevent harmful effects to extremities.

Ergo-Grips™



| Part Number | Description | For Use With |
|-------------------|-------------------------------|-------------------------|
| ERGO-GRIPS | | |
| SEG3AH-CL | Ergo-Grip (over 1,700 rpm) | Cleco |
| SEG3A-IR | Ergo-Grip (1,650 rpm or less) | Ingersoll Rand 3 Series |
| SEG3-AR | Ergo-Grip (1,500 rpm or less) | ARO 20 Series |
| SEG4-AR | Ergo-Grip (1,700 rpm or less) | ARO 50 Series |
| SEG4-CL | Ergo-Grip (1,000 rpm or less) | Cleco |
| SEG4H-AR | Ergo-Grip (over 1,700 rpm) | ARO 50 Series |
| SEG4H-CL | Ergo-Grip (over 1,000 rpm) | Cleco |
| SEG4H-IR | Ergo-Grip (over 1,200 rpm) | Ingersoll Rand 4 Series |
| SEG4-IR | Ergo-Grip (1,200 rpm or less) | Ingersoll Rand 4 Series |
| SEG4-CGK | Replacement foam grip kit | Series SEG4 |

- Ergo-Grip™ makes tool operation more comfortable with reduced grip pressure and vibration dampening
- Easy installation:
 1. Unscrew clutch housing.
 2. Slip on grip.
 3. Reattach housing.

Bio-Braces™



SBB4-IR

| Part Number | Description | For Use With |
|-------------------|----------------------------|--------------------------------|
| BIO-BRACES | | |
| SBB4-AR | Bio-brace (over 1,700 rpm) | ARO 50 Series |
| SBB4-IR | Bio-brace (over 1,200 rpm) | Ingersoll Rand 4 Series |
| SBB4-VS | Bio-brace | Ingersoll Rand Versatec Series |
| SBB4-QE2 | Bio-brace | QE2 Series |
| SEG3A-CGK | Replacement foam grip kit | SEG3A Series |

- Ergonomically designed Bio Brace™ minimizes start-up and shut-off force to your arm.
- Eliminates the need for a dead handle, freeing up your other hand.

Lubricants & Grease Guns



Lubricants & Grease Guns

It goes without saying that proper lubrication of any tool is essential if you want the tool to last. By lubricating your air tools, you'll prolong the life of tool motors, mechanisms, gearing, and other vital parts. Ingersoll Rand offers a complete line of specialized oils and greases that are engineered specifically for use with our air tools. Also, grease guns are available for your convenience to dispense the line of lubricants.



10Z4



10P



10G

Air Tools Oils

| Part Number | Description | Size |
|----------------------|---|--------|
| AIR TOOL OILS | | |
| 63Z4 | #63 oil for cyclone wick lubrication | 4 oz |
| 10Z4 | Class 1 #10 oils for use with percussive, assembly, and impact wrenches | 4oz |
| 10P | Class 1 #10 oils for use with percussive, assembly, and impact wrenches | 1 pt |
| 10G | Class 1 #10 oils for use with percussive, assembly, and impact wrenches | 1 gal |
| 10G55 | Class 1 #10 oils for use with percussive, assembly, and impact wrenches | 55 gal |
| 10GW | Class 1 #10 oil and antifreeze for use with percussive, assembly, and impact wrenches | 1 gal |
| 50P | Class II lubricant, #50 oil for use with grinders, impact wrenches, hoists, and winches | 1 pt |
| 50G | Class II lubricant, #50 oil for use with grinders, impact wrenches, hoists, and winches | 1 gal |
| 62 1 Gal | Class II #62 oil for hoist and winch gear boxes | 1 gal |

Greases

| Part Number | Description | Grease No. | Size |
|----------------|---|------------|-------|
| GREASES | | | |
| 23-1 LB | For the gearing of drills | 23 | 1 lb |
| 28 1 LB | For screwdriver gearing and clutches; drills, grinders, saws; tie tamper grease | 28 | 1 lb |
| 66 1 LB | For slow-speed, high-torque angle heads | 66 | 1 lb |
| 66 8 LB | For slow-speed, high-torque angle heads | 66 | 8 lb |
| 67-4T | For high-speed, high-temp angle heads (green) | 67 | 4 oz |
| 67-1 LB | For high-speed, high-temp angle heads (green) | 67 | 1 lb |
| 67 8 LB | For high-speed, high-temp angle heads (green) | 67 | 8 lb |
| 68-1LB | Coupling splines and high speed angle heads | 68 | 1 lb |
| 68 8 LB | Coupling splines and high speed angle heads | 68 | 8 lb |
| 70 1 LB | For large-piston motors and gear cases | 70 | 1 lb |
| 70 8 LB | For large-piston motors and gear cases | 70 | 8 lb |
| 77-1 LB | For grinder angle heads | 77 | 1 lb |
| 80 1 LB | For bearings on sump pumps | 80 | 1 lb |
| 80 8 LB | For bearings on sump pumps | 80 | 8 lb |
| 90-14 OZ | For gear heads and tube nut wrenches | 90 | 14 oz |
| 100 1 LB | Standard-duty impact wrench grease | 100 | 1 lb |
| 100 8 LB | Standard-duty impact wrench grease | 100 | 8 lb |
| 105-4T | Metallic housing impact wrench grease | 105 | 4 oz |
| 105-1LB | Metallic housing impact wrench grease | 105 | 1 lb |
| 105-8LB | Metallic housing impact wrench grease | 105 | 8 lb |
| 115-4T | Composite housing impact wrench grease | 115 | 4 oz |
| 115-1LB | Composite housing impact wrench grease | 115 | 1 lb |
| 150-1 LB | For impact mechanisms with swinging weight | 150 | 1 lb |
| 150 8 LB | For impact mechanisms with swinging weight | 150 | 8 lb |
| 170-1LB | Premium impact grease for high temps, used with impact mechanisms | 170 | 1 lb |



105-4T



100 1 lb

Lubrication Kits



| Part Number | Description |
|-------------------------|---|
| LUBRICATION KITS | |
| 67-LBK1 | Angle grinder care kit includes 10Z4 oil, 4 oz, 67 grease, and grease gun |
| 105-LBK1 | Metallic housings impact wrench care kit includes 10Z4 oil, 4 oz, 105 grease, and grease gun |
| 115-LBK1 | Composite housings impact wrench care kit includes 10Z4 oil, 4 oz, 115 grease, and grease gun |

The 10Z4, 10P, 10G, 100-1LB, 105-LBK1, & 115-LBK1 are available in case quantities. See the website for quantities and part numbers.

Grease Guns

Grease Guns



| Part Number | Description |
|--------------------|---|
| GREASE GUNS | |
| P25-228 | Push-type hand grease gun for hydraulic-type fittings, holds up to 3 oz of grease |
| R000A2-228 | Push-type hand grease gun for flush-type fittings, holds up to 3 oz of grease |

Grease Tube Head



| GREASE TUBE HEAD | |
|-------------------------|---|
| GTH-1 | Grease gun used with Ingersoll Rand 4 oz tube of grease |

Glossary of Technical Symbols

For ease of use, specification tables frequently use symbols in column headings. Please reference the chart below for exact descriptions.

| | | | |
|---|-----------------------|---|----------------------------|
|  | NPT size |  | Hose inner diameter |
|  | Max. working pressure |  | Hose outer diameter |
|  | Max. air consumption |  | Coiled hose height |
|  | Max. torque |  | Coiled hose width |
|  | Weight |  | Coiled hose working length |
|  | Lift |  | Length |
|  | Capacity | | |
|  | Approximate travel | | |
|  | Overall height | | |



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