SPECIALTY PRODUCTS

Water Blasting Parts and Equipment

Tube Nozzles | Surface Nozzles | Lances & Related | Control Guns
Replacement Pump Parts | Accessories





ADVANCED PRESSURE SYSTEMS

701 South Persimmon Street, Suite J, Tomball, TX 77375 Phone: (281) 290-9950 • Fax: (281) 290-9952

Email orders: sales-team@advancedpressuresystems.com
Website: http://www.advancedpressuresystems.com

Company Information

WHO WE ARE & HOW WE CAN HELP YOU



Peter Goldsmith Managing Director



Fabian Villanueva International Sales



David Mitchell Director of Operations



Johnny Matsoukas La Porte Office Branch Manager



Kent Maddie VP - Sales & Marketing



Sheree Paramore VP - Production & Inventory Control



Kenny Kujawa VP - Manufacturing



Nick Ragan Customer Service / Sales Rep

Established in 2007, Advanced Pressure Systems (APS) manufactures a complete line of high pressure water blasting equipment and accessories for pressures up to 40,000 psi. APS provides equipment used for a wide variety of industrial and environmental cleaning applications, as well as consulting and engineering services. Available equipment includes, but is not limited to:

- · Pump replacement parts
- Control guns
- Flow divider valves and pressure regulating valves
- Nozzles
- Fittings
- Hoses and flex lances from both Parker and Spir Star®
- Safety products
- StoneAge® tools

APS stocks a large inventory of parts suited for a variety of applications. In-house precision machining and thorough quality control allow APS to offer equipment at the most comparable price in the industry.

With two stocking locations, direct sales to customers within the United States, and a sales staff that can be reached on weekends, APS' availability is unmatched by other suppliers. We are also represented internationally by distributors in Canada, Europe, Asia, Africa, Australia and New Zealand. Working with qualified local distributors allows APS to maximize the number of customers we reach without compromising the quality of our products or services.

Industry knowledge and experience make APS the most reliable source of water blast equipment. Our customer service team is quick to respond and thorough, from selection of equipment to delivery. We are dedicated to ensuring our customers have the equipment they need, when they need it. APS stands for Always Providing Service.

Accessories • Control Guns • Fittings • Rigid Lances Flex Lances • Hoses • Nozzles • Pump Parts

QUALITY ASSURANCE DEPARTMENT

Advanced Pressure Systems (APS) places a high degree of emphasis on Quality Assurance for its products. Our inspection processes for our in-house manufactured components follow industry best practices for machine shops. First article, in process and final inspections are carried out using cutting edge technology as well as the traditional and time-tested equipment and methods.



Inspection Equipment includes:

- OPTIV 3 Classic Optical Coordinate Measuring Machine (CMM)
- Keyence IM-6020 Image Dimension Measuring System (IM)
- Thermo Scientific Niton XRF Analyzer
- Mitutoyo PH-A14 Optical Comparator
- Wilson Rockwell Tester
- Faro Arm
- Mitutoyo SJ0201 Profilometer
- Sunnen Precision Bore Gauges PG-810 and PG-700
- Mitutoyo Linear Height 600
- · And a full complement of precision micrometers, calipers, surface plates, digital height indicators, standard plug, ring & thread gauges



Company Information

CONDITIONS OF SALE & WARRANTY

You are responsible for your own safety. Advanced Pressure Systems (APS) publishes guides for the safe use of water blasting equipment. Please read them.

We also strongly advise that all personnel are fully conversant with the "Recommended Practices for the Use of Manually Operated High Pressure Water Jetting Equipment", published by the Water Jet Technology Association. These may be obtained free of charge by contacting Advanced Pressure Systems, L.P. toll free: 1-877-290-4277

Conditions of Sale and Warranty

General: These terms, conditions and warranty provisions are applicable to all products contained in this catalog and may not be varied, except in writing by a partner of Advanced Pressure Systems, L.P.

Terms of Sale:

- 1. All sales are FOB manufacturers plant, Houston, Texas, and are priced and must be paid for in US dollars.
- 2. The purchaser agrees to hold Advanced Pressure Systems, L.P. (dba Advanced Pressure Systems) harmless for any and all claims arising from the misuse or misapplication of any product manufactured or supplied by Advanced Pressure Systems.
- 3. Products returned for credit will be subject to a 15% restocking charge. Only standard products will be accepted for restocking. All sales of non-standard items are final.
- 4. Payment may be made by credit cards issued by VISA or MASTERCARD. Payment by credit cards issued by AMERICAN EXPRESS will be subject to a 3% service charge.

Warranty: The following classes of products carry the warranty indicated. Any component included in an assembled product which is subject to wear is not warranted. Products which have been subject to abuse including misapplication, corrosion, excessive pressure, over-tightening and galling of screw threads will not be accepted for replacement under warranty. Products not manufactured by Advanced Pressure Systems will carry the warranty of the respective manufacturer.

- Hose Not warranted. Coupling may be warranted by manufacturer.
- 2. Rigid Lances Ninety (90) days from date of shipment.
- 3. Plungers & Pump Packing Not warranted.
- Control Guns, Flow Divider Valves & Flow Control Valves Ninety (90) days from date of shipment.
- 5. Relief Valves One-hundred eighty (180) days from date of shipment.
- 6. Nozzles and Nozzle Inserts / Orifices Not warranted.
- 7. Fittings, Connectors & Couplings One-hundred eighty (180) days from date of shipment.

Shipping Costs: Orders may be shipped prepaid by any regular available means, and the cost will be paid by the customer. Other shipping costs, including but not limited to, insurance for the full retail value of the products, packaging, crating, and any other handling costs will be billed to the customer. If the customer collects the products from the Houston plant there will not be any shipping charges.

Payment: All invoices are due net thirty (30) days from date of shipment. Any invoices which are more than thirty (30) days past due will result in the account of the customer concerned to be placed on hold.

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Tube Nozzles NOZZLE THRUST CHART

| PSI | 1 gpm | 2 gpm | 3 gpm | 4 gpm | 5 gpm | 6 gpm | 7 gpm | 8 gpm | 9 gpm | 10 gpm | 11 gpm | 12 gpm | 13 gpm | 14 gpm | 15 gpm | 16 gpm | 17 gpm | 18 gpm | 19 gpm | 20 gpm | 21 gpm | 22 gpm | 23 gpm |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1,000 | 1.7 | 3.3 | 5.0 | 6.7 | 8.3 | 10.0 | 11.7 | 13.3 | 15.0 | 16.7 | 18.3 | 20.0 | 21.7 | 23.3 | 25.8 | 26.7 | 28.3 | 30.0 | 31.7 | 33.3 | 35.0 | 36.7 | 38.3 |
| 2,000 | 2.4 | 4.7 | 7.1 | 9.4 | 11.8 | 14.1 | 16.5 | 18.9 | 21.2 | 23.6 | 25.9 | 28.3 | 30.6 | 33.0 | 35.4 | 37.7 | 40.1 | 42.4 | 44.8 | 47.1 | 49.5 | 51.8 | 54.2 |
| 3,000 | 2.9 | 5.8 | 8.7 | 11.5 | 14.4 | 17.3 | 20.2 | 23.1 | 26.0 | 28.9 | 31.8 | 34.6 | 37.5 | 40.4 | 40.3 | 46.2 | 49.1 | 52.0 | 54.8 | 57.7 | 60.6 | 63.5 | 66.4 |
| 4,000 | 3.3 | 6.7 | 10.0 | 13.3 | 16.7 | 20.0 | 23.3 | 26.7 | 30.0 | 33.3 | 36.7 | 40.0 | 43.3 | 46.7 | 50.0 | 53.3 | 56.7 | 60.0 | 63.3 | 66.7 | 70.0 | 73.3 | 76.7 |
| 5,000 | 3.7 | 7.5 | 11.2 | 14.9 | 18.6 | 22.4 | 26.1 | 29.8 | 33.5 | 37.3 | 41.0 | 44.7 | 48.4 | 52.2 | 55.9 | 59.6 | 63.3 | 67.1 | 70.8 | 74.5 | 78.3 | 82.0 | 85.7 |
| 6,000 | 4.1 | 8.2 | 12.2 | 16.3 | 20.4 | 24.5 | 28.6 | 32.7 | 36.7 | 40.8 | 44.9 | 49.0 | 53.1 | 57.1 | 61.2 | 65.3 | 69.4 | 73.5 | 77.6 | 81.6 | 85.7 | 89.8 | 93.9 |
| 7,000 | 4.4 | 8.8 | 13.2 | 17.6 | 22.0 | 26.5 | 30.9 | 35.3 | 39.7 | 44.1 | 48.5 | 52.9 | 57.3 | 61.7 | 66.1 | 70.5 | 75.0 | 79.4 | 83.8 | 88.2 | 92.6 | 97.0 | 101.4 |
| 8,000 | 4.7 | 9.4 | 14.1 | 18.9 | 23.6 | 28.3 | 33.0 | 37.7 | 42.4 | 47.1 | 51.8 | 56.6 | 61.3 | 66.0 | 70.7 | 75.4 | 80.1 | 84.8 | 89.6 | 94.3 | 99.0 | 103.7 | 108.4 |
| 9,000 | 5.0 | 10.0 | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 | 45.0 | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 | 75.0 | 80.0 | 85.0 | 90.0 | 95.0 | 100.0 | 105.0 | 110.0 | 115.0 |
| 10,000 | 5.3 | 10.5 | 15.8 | 21.1 | 26.3 | 31.6 | 36.9 | 42.2 | 47.4 | 52.7 | 58.0 | 63.2 | 68.5 | 73.8 | 79.0 | 84.3 | 89.6 | 94.9 | 100.1 | 105.4 | 110.7 | 115.9 | 121.2 |
| 11,000 | 5.5 | 11.1 | 16.6 | 22.1 | 27.6 | 33.2 | 38.7 | 44.2 | 49.7 | 55.3 | 60.8 | 66.3 | 71.9 | 77.4 | 82.9 | 88.4 | 94.0 | 99.5 | 105.0 | 110.5 | 116.1 | 121.6 | 127.1 |
| 12,000 | 5.8 | 11.5 | 17.3 | 23.1 | 28.9 | 34.6 | 40.4 | 46.2 | 52.0 | 57.7 | 63.5 | 69.3 | 75.0 | 80.8 | 86.6 | 92.4 | 98.1 | 103.9 | 109.7 | 115.5 | 121.2 | 127.0 | 132.8 |
| 13,000 | 6.0 | 12.0 | 18.0 | 24.0 | 30.0 | 36.1 | 42.1 | 48.1 | 54.1 | 60.1 | 66.1 | 72.1 | 78.1 | 84.1 | 90.1 | 96.1 | 102.1 | 108.2 | 114.2 | 120.2 | 126.2 | 132.2 | 138.2 |
| 14,000 | 6.2 | 12.5 | 18.7 | 24.9 | 31.2 | 37.4 | 43.6 | 49.9 | 56.1 | 62.4 | 68.6 | 74.8 | 81.1 | 87.3 | 93.5 | 99.8 | 106.0 | 112.2 | 118.5 | 124.7 | 130.9 | 137.2 | 143.4 |
| 15,000 | 6.5 | 12.9 | 19.4 | 25.8 | 32.3 | 38.7 | 45.2 | 51.6 | 58.1 | 64.5 | 71.0 | 77.5 | 83.9 | 90.4 | 96.8 | 103.0 | 109.7 | 116.2 | 122.6 | 129.1 | 135.5 | 142.0 | 148.4 |
| 16,000 | 6.7 | 13.3 | 20.0 | 26.7 | 33.3 | 40.0 | 46.7 | 53.3 | 60.0 | 66.7 | 73.3 | 80.0 | 86.7 | 93.3 | 100.0 | 106.0 | 113.3 | 120.0 | 126.7 | 133.3 | 140.0 | 146.6 | 153.3 |
| 17,000 | 6.9 | 13.7 | 20.6 | 27.5 | 34.4 | 41.2 | 48.1 | 55.0 | 61.8 | 68.7 | 75.6 | 82.5 | 89.3 | 96.2 | 103.1 | 109.0 | 116.8 | 123.7 | 130.5 | 137.4 | 144.3 | 151.2 | 158.0 |
| 18,000 | 7.1 | 14.1 | 21.2 | 28.3 | 35.4 | 42.4 | 49.5 | 56.6 | 63.6 | 40.7 | 77.8 | 84.8 | 91.9 | 99.0 | 106.1 | 113.0 | 120.0 | 127.3 | 134.3 | 141.4 | 148.5 | 155.5 | 162.6 |
| 19,000 | 7.3 | 14.5 | 21.8 | 29.1 | 36.3 | 43.6 | 50.8 | 58.1 | 65.4 | 72.6 | 79.9 | 87.2 | 94.4 | 101.0 | 109.0 | 116.2 | 123.5 | 130.8 | 138.0 | 145.3 | 152.5 | 159.8 | 167.1 |
| 20,000 | 7.5 | 14.9 | 22.4 | 29.8 | 37.3 | 44.7 | 52.2 | 59.6 | 67.1 | 74.5 | 82.0 | 59.4 | 96.0 | 104.3 | 111.8 | 119.2 | 126.7 | 134.1 | 141.6 | 149.1 | 156.5 | 164.0 | 171.4 |
| 36,000 | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 | 120.0 | 130.0 | 140.0 | 150.0 | 160.0 | 170.0 | 180.0 | 190.0 | 200.0 | 210.0 | 220.0 | 230.0 |
| 40,000 | 10.5 | 21.1 | 31.6 | 42.2 | 52.7 | 63.2 | 73.8 | 84.3 | 94.9 | 105.4 | 115.9 | 126.5 | 137.0 | 147.6 | 158.1 | 168.6 | 179.2 | 189.7 | 200.3 | 210.8 | 221.3 | 231.9 | 242.4 |

Tube Nozzles NOZZLE THRUST CHART (CONTINUED)

| PSI | 24 gpm | 25 gpm | 26 gpm | 27 gpm | 28 gpm | 29 gpm | 30 gpm | 31 gpm | 32 gpm | 33 gpm | 34 gpm | 35 gpm | 36 gpm | 37 gpm | 38 gpm | 39 gpm | 40 gpm | 41 gpm | 42 gpm | 43 gpm | 44 gpm | 45 gpm |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1,000 | 40.0 | 41.7 | 43.3 | 45.0 | 46.7 | 48.3 | 50.0 | 51.7 | 53.3 | 55.0 | 56.7 | 58.3 | 60.0 | 61.7 | 63.3 | 65.0 | 66.7 | 68.3 | 70.0 | 71.7 | 73.3 | 75.0 |
| 2,000 | 56.6 | 58.9 | 61.3 | 63.6 | 66.0 | 68.3 | 70.7 | 73.1 | 75.4 | 77.8 | 80.1 | 82.5 | 84.8 | 87.2 | 89.6 | 91.9 | 94.3 | 96.6 | 99.0 | 101.3 | 103.7 | 106.1 |
| 3,000 | 69.3 | 72.2 | 75.0 | 77.9 | 80.8 | 83.7 | 86.6 | 89.5 | 92.4 | 95.3 | 98.1 | 101.0 | 103.9 | 106.8 | 109.7 | 112.6 | 115.5 | 118.3 | 121.2 | 124.1 | 127.0 | 129.9 |
| 4,000 | 80.0 | 83.3 | 86.7 | 90.0 | 93.3 | 96.7 | 100.0 | 103.3 | 106.7 | 110.0 | 113.3 | 116.7 | 120.0 | 123.3 | 126.7 | 130.0 | 133.3 | 136.6 | 140.0 | 143.3 | 146.6 | 150.0 |
| 5,000 | 89.4 | 93.2 | 96.9 | 100.6 | 104.3 | 108.1 | 111.8 | 115.5 | 119.2 | 123.0 | 126.7 | 130.4 | 134.1 | 137.9 | 141.6 | 145.3 | 149.1 | 152.8 | 156.5 | 160.2 | 164.0 | 167.7 |
| 6,000 | 98.0 | 102.0 | 106.1 | 110.2 | 114.3 | 118.4 | 122.5 | 126.5 | 130.6 | 134.7 | 138.8 | 142.9 | 147.0 | 151.0 | 155.1 | 159.2 | 163.3 | 167.4 | 171.4 | 175.5 | 179.6 | 183.7 |
| 7,000 | 105.8 | 110.2 | 114.6 | 119.0 | 123.5 | 127.9 | 132.3 | 136.7 | 141.1 | 145.5 | 149.9 | 154.3 | 158.7 | 163.1 | 167.5 | 172.0 | 176.4 | 180.8 | 185.2 | 189.6 | 194.0 | 198.4 |
| 8,000 | 113.1 | 117.8 | 122.5 | 127.3 | 132.0 | 136.7 | 141.4 | 146.1 | 150.8 | 155.5 | 160.3 | 165.0 | 169.7 | 174.4 | 179.1 | 183.8 | 188.5 | 193.3 | 198.0 | 202.7 | 207.4 | 212.1 |
| 9,000 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 | 150.0 | 155.0 | 160.0 | 165.0 | 170.0 | 175.0 | 180.0 | 185.0 | 190.0 | 195.0 | 200.0 | 205.0 | 210.0 | 215.0 | 220.0 | 225.0 |
| 10,000 | 126.5 | 131.7 | 137.0 | 142.3 | 147.6 | 152.8 | 158.1 | 163.4 | 168.6 | 173.9 | 179.2 | 184.4 | 189.7 | 195.0 | 200.3 | 205.5 | 210.8 | 216.1 | 221.3 | 226.6 | 231.9 | 237.1 |
| 11,000 | 132.6 | 138.2 | 143.7 | 149.2 | 154.8 | 160.3 | 165.8 | 171.3 | 176.9 | 182.4 | 187.9 | 193.4 | 199.0 | 204.5 | 210.0 | 215.6 | 221.1 | 226.6 | 232.1 | 237.7 | 243.2 | 248.7 |
| 12,000 | 138.5 | 144.3 | 150.1 | 155.9 | 161.6 | 167.4 | 173.2 | 179.0 | 184.7 | 190.5 | 196.3 | 202.0 | 207.8 | 213.6 | 219.4 | 225.1 | 230.9 | 236.7 | 242.5 | 248.2 | 254.0 | 259.8 |
| 13,000 | 144.2 | 150.2 | 156.2 | 162.2 | 168.2 | 174.2 | 180.3 | 186.3 | 192.3 | 198.3 | 204.3 | 210.3 | 216.3 | 222.3 | 228.3 | 234.3 | 240.3 | 246.3 | 252.4 | 258.4 | 264.4 | 270.4 |
| 14,000 | 149.6 | 155.9 | 162.1 | 168.4 | 174.6 | 180.8 | 187.1 | 193.3 | 199.5 | 205.8 | 212.0 | 218.2 | 224.5 | 230.7 | 236.9 | 243.2 | 249.4 | 255.6 | 261.9 | 268.1 | 274.4 | 280.6 |
| 15,000 | 154.9 | 161.4 | 167.8 | 174.3 | 180.7 | 187.2 | 193.6 | 200.1 | 206.5 | 213.0 | 219.4 | 225.9 | 232.4 | 238.8 | 245.3 | 251.7 | 258.2 | 264.6 | 271.1 | 277.5 | 284.0 | 290.4 |
| 16,000 | 160.0 | 166.6 | 173.3 | 180.0 | 186.6 | 193.3 | 200.0 | 206.6 | 213.3 | 220.0 | 226.6 | 233.3 | 240.0 | 246.6 | 253.3 | 260.0 | 266.6 | 273.3 | 280.0 | 286.6 | 293.3 | 300.0 |
| 17,000 | 164.9 | 171.8 | 178.6 | 185.5 | 192.4 | 199.3 | 206.1 | 213.0 | 219.9 | 226.7 | 233.6 | 240.5 | 247.4 | 254.2 | 261.1 | 268.0 | 274.8 | 281.7 | 288.6 | 295.5 | 302.3 | 309.2 |
| 18,000 | 169.7 | 176.8 | 183.8 | 190.9 | 198.0 | 205.0 | 212.1 | 219.2 | 226.2 | 233.3 | 240.4 | 247.5 | 254.5 | 261.6 | 268.7 | 275.7 | 282.8 | 289.9 | 296.9 | 304.0 | 311.1 | 318.2 |
| 19,000 | 174.3 | 181.6 | 188.9 | 196.1 | 203.4 | 210.7 | 217.9 | 225.2 | 232.4 | 239.7 | 247.0 | 254.2 | 261.5 | 268.8 | 276.0 | 283.3 | 290.6 | 297.8 | 305.1 | 312.3 | 319.6 | 326.9 |
| 20,000 | 178.9 | 186.0 | 193.8 | 201.2 | 208.7 | 216.1 | 221.6 | 231.0 | 238.5 | 245.9 | 253.4 | 260.8 | 268.3 | 275.7 | 283.2 | 290.7 | 298.1 | 305.6 | 313.0 | 320.5 | 327.9 | 335.4 |
| 36,000 | 240.0 | 250.0 | 260.0 | 270.0 | 280.0 | 290.0 | 300.0 | 310.0 | 320.0 | 330.0 | 340.0 | 350.0 | 360.0 | 370.0 | 380.0 | 390.0 | 400.0 | 410.0 | 420.0 | 430.0 | 440.0 | 450.0 |
| 40,000 | 253.0 | 263.5 | 274.0 | 284.6 | 295.1 | 305.7 | 316.2 | 326.7 | 337.3 | 347.8 | 358.4 | 368.9 | 379.4 | 389.9 | 400.5 | 411.1 | 421.6 | 432.1 | 442.7 | 453.2 | 463.8 | 474.3 |

MONRO-JET ORBITAL NOZZLES

Advanced Pressure Systems (APS) proudly offers the Monro-Jet Orbital Nozzles in a wide variety of flows and pressure ratings (from 2.4K to 36K psi) to suit your application. 3/8" NPT inlet threads are available upon request. Please specify orifice size and flow when ordering.

High Performance:

- High performance, high production
- · Lightweight, simple to operate and maintain
- · Combines the power of a solid pencil jet with the large area coverage of a fan jet
- · Rugged and dependable
- Rotor and insert assemblies are specific to your exact flow and pressure requirement
- Hardened steel protection cover available for concrete demolition

Applications:

- · Concrete cleaning and hydro-demolition
- · Casting cleaning
- Scale removal
- Surface preparation
- · Offshore cleaning
- Root cutting

MONRO-JET® F1 / F3 / F4 / F6 / F25



Durchflussmenge in gal/min / Flowrate in gpm

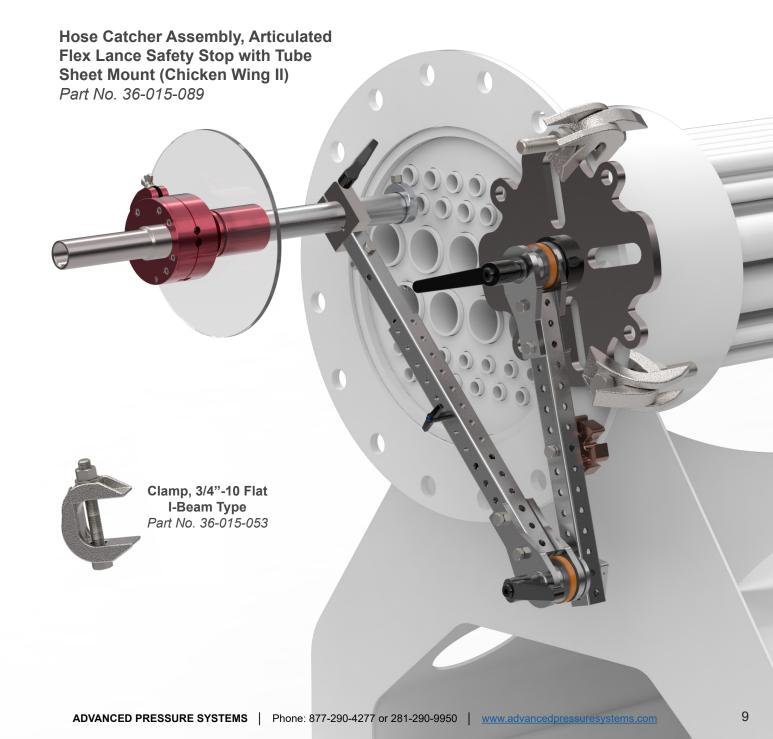
| | | | Druck in psi / bar / Pressure in psi / bar | | | | | | | | | | |
|-------|---------|-------|--|--------|--------|--------|-------|-----------|--------|--------|--------|--------|--|
| | | | psi | psi | psi | psi | psi | psi | psi | psi | psi | psi | |
| Rotor | Driving | No. | 2494 | 7250 | 10875 | 14500 | 18125 | 21750 | 25375 | 29000 | 32625 | 36250 | |
| Rotor | Tube | Bore | bar | bar | bar | bar | bar | bar | bar | bar | bar | bar | |
| | | | 172 | 500 | 750 | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 | 2500 | |
| 0 | 0 | | | | | | | / Density | | | | | |
| | | Anz./ | 1009.1 | 1021.3 | 1030.8 | 1040.5 | | 1060.3 | 1070.5 | 1080.8 | 1091.3 | 1101.9 | |
| mm | mm | No. | | | | | g | pm | | | | | |
| 0.60 | 0.60 | 2 | 0.75 | 1.19 | 1.45 | 1.67 | 1.86 | 2.03 | 2.18 | 2.32 | 2.45 | 2.57 | |
| 0.65 | 0.65 | 2 | 0.88 | 1.38 | 1.69 | 1.94 | 2.16 | 2.35 | 2.53 | 2.69 | 2.84 | 2.98 | |
| 0.70 | 0.70 | 2 | 0.90 | 1.41 | 1.72 | 1.98 | 2.20 | 2.40 | 2.58 | 2.75 | 2.90 | 3.04 | |
| 0.75 | 0.75 | 2 | 0.98 | 1.58 | 1.89 | 2.18 | 2.43 | 2.64 | 2.84 | 3.02 | 3.19 | 3.35 | |
| 0.80 | 0.80 | 2 | 1.24 | 1.94 | 2.35 | 2.72 | 3.03 | 3.31 | 3.55 | 3.78 | 3.99 | 4.19 | |
| 0.85 | 0.80 | 2 | 1.34 | 2.09 | 2.54 | 2.96 | 3.29 | 3.59 | 3.86 | 4.10 | 4.33 | 4.54 | |
| 0.90 | 1.00 | 2 | 1.67 | 2.61 | 3.18 | 3.67 | 4.08 | 4.45 | 4.79 | 5.09 | 5.37 | 5.64 | |
| 0.95 | 1.00 | 2 | 1.79 | 2.82 | 3.40 | 3.97 | 4.41 | 4.81 | 5.17 | 5.50 | 5.81 | 6.09 | |
| 1.00 | 1.20 | 2 | 2.10 | 3.31 | 4.03 | 4.53 | 5.04 | 5.50 | 5.91 | 6.29 | 6.63 | 6.96 | |
| 1.05 | 1.20 | 2 | 2.27 | 3.59 | 4.37 | 5.02 | 5.59 | 6.10 | 6.55 | 6.97 | 7.36 | 7.72 | |
| 1.10 | 1.40 | 2 | 2.59 | 4.06 | 4.95 | 5.69 | 6.33 | 6.90 | 7.42 | 7.89 | 8.33 | 8.74 | |
| 1.15 | 1.40 | 2 | 2.75 | 4.33 | 5.28 | 6.06 | 6.75 | 7.36 | 7.91 | 8.41 | 8.88 | 9.32 | |
| 1.20 | 1.80 | 2 | 3.19 | 4.98 | 6.07 | 6.98 | 7.77 | 8.47 | 9.10 | 9.68 | 10.22 | 10.72 | |
| 1.25 | 1.80 | 2 | 3.47 | 5.42 | 6.60 | 7.58 | 8.44 | 9.20 | 9.89 | 10.52 | 11.10 | 11.65 | |
| 1.30 | 2.40 | 2 | 3.71 | 6.10 | 7.44 | 8.55 | 9.51 | 10.37 | 11.15 | 11.86 | 12.52 | 13.13 | |
| 1.35 | 2.40 | 2 | 4.14 | 6.52 | 7.92 | 9.10 | 10.13 | 11.04 | 11.87 | 12.63 | 13.33 | 13.98 | |
| 1.40 | 2.40 | 2 | 4.47 | 7.02 | 8.52 | 9.79 | 10.89 | 11.87 | 12.77 | 13.58 | 14.34 | 15.04 | |
| 1.45 | 2.60 | 2 | 4.82 | 7.58 | 9.24 | 10.61 | 11.81 | 12.88 | 13.84 | 14.73 | 15.55 | 16.31 | |
| 1.50 | 2.60 | 2 | 5.13 | 8.06 | 9.83 | 11.30 | 12.57 | 13.71 | 14.73 | 15.68 | 16.55 | 17.36 | |
| 1.55 | 2.80 | 2 | 5.51 | 8.66 | 10.55 | 12.13 | 13.50 | 14.72 | 15.82 | 16.83 | 17.76 | 18.63 | |
| 1.60 | 2.80 | 2 | 5.87 | 9.22 | 11.24 | 12.92 | 14.38 | 15.68 | 16.86 | 17.93 | 18.93 | 19.86 | |
| 1.65 | 3.00 | 2 | 6.24 | 9.81 | 11.96 | 13.74 | 15.29 | 16.68 | 17.93 | 19.07 | 20.13 | 21.12 | |
| 1.70 | 3.00 | 2 | 6.62 | 10.41 | 12.69 | 14.59 | 16.24 | 17.70 | 19.03 | 20.24 | 21.37 | 22.42 | |
| 1.75 | 3.00 | 2 | 7.02 | 11.03 | 13.45 | 15.46 | 17.20 | 18.76 | 20.16 | 21.45 | 22.64 | 23.75 | |
| 1.80 | 3.20 | 2 | 7.42 | 11.67 | 14.23 | 16.36 | 18.20 | 19.84 | 21.33 | 22.70 | 23.96 | 25.13 | |
| 1.85 | 3.20 | 2 | 7.84 | 12.33 | 15.03 | 17.28 | 19.23 | 20.96 | 22.53 | 23.97 | 25.31 | 26.55 | |
| 1.90 | 3.00 | 4 | 8.27 | 13.01 | 15.86 | 18.22 | 20.28 | 22.11 | 23.77 | 25.29 | 26.69 | 28.00 | |
| 1.95 | 3.00 | 4 | 8.71 | 13.70 | 16.70 | 19.20 | 21.36 | 23.29 | 25.04 | 26.64 | 28.12 | 29.49 | |
| 2.00 | 3.00 | 4 | 9.17 | 14.41 | 17.57 | 20.19 | 22.47 | 24.50 | 26.34 | 28.02 | 29.58 | 31.03 | |
| 2.05 | 3.00 | 4 | 9.63 | 15.14 | 18.46 | 21.22 | 23.61 | 25.74 | 27.67 | 29.44 | 31.07 | 32.60 | |
| 2.10 | 3.00 | 4 | 10.11 | 15.89 | 19.37 | 22.26 | 24.77 | 27.01 | 29.04 | 30.89 | 32.61 | 34.21 | |
| 2.15 | 3.20 | 4 | 10.59 | 16.66 | 20.30 | 23.34 | 25.97 | 28.31 | 30.44 | 32.38 | 34.18 | 35.85 | |
| 2.20 | 3.20 | 4 | 11.09 | 17.44 | 21.26 | 24.43 | 27.19 | 29.64 | 31.87 | 33.90 | 35.79 | 37.54 | |
| 2.25 | 3.20 | 4 | 11.60 | 18.24 | 22.24 | 25.56 | 28.44 | 31.01 | 33.33 | 35.46 | 37.43 | 39.27 | |
| 2.30 | 3.20 | 4 | 12.12 | 19.06 | 23.24 | 26.71 | 29.72 | 32.40 | 34.83 | 37.06 | 39.12 | 41.03 | |
| 2.35 | 3.20 | 4 | 12.65 | 19.90 | 24.26 | 27.88 | 31.02 | 33.82 | 36.36 | 38.69 | 40.83 | 42.84 | |
| 2.40 | 3.20 | 4 | 13.20 | 20.75 | 25.30 | 29.08 | 32.36 | 35.28 | 37.92 | 40.35 | 42.59 | 44.68 | |
| 2.45 | 3.20 | 4 | 13.75 | 21.63 | 26.37 | 30.30 | 33.72 | 36.76 | 39.52 | 42.05 | 44.38 | 46.56 | |
| 2.50 | 3.20 | 4 | 14.32 | 22.52 | 27.45 | 31.55 | 35.11 | 38.28 | 41.15 | 43.78 | 46.21 | 48.48 | |
| 2.55 | 3.50 | 4 | 14.90 | 23.43 | 28.56 | 32.83 | 36.53 | 39.83 | 42.81 | 45.55 | 48.08 | 50.44 | |
| 2.60 | 3.50 | 4 | 15.49 | 24.36 | 29.69 | 34.13 | 37.98 | 41.40 | 44.51 | 47.35 | 49.99 | 52.43 | |
| 2.65 | 3.50 | 4 | 16.09 | 25.30 | 30.85 | 35.45 | 39.45 | 43.01 | 46.24 | 49.19 | 51.93 | 54.47 | |
| 2.70 | 3.50 | 4 | 16.70 | 26.27 | 32.02 | 36.80 | 40.95 | 44.65 | 48.00 | 51.07 | 53.90 | 56.54 | |
| 2.75 | 3.50 | 4 | 17.33 | 27.25 | 33.22 | 38.18 | 42.48 | 46.32 | 49.79 | 52.98 | 55.92 | 58.66 | |
| 2.80 | 3.50 | 4 | 17.96 | 28.25 | 34.44 | 39.58 | 44.04 | 48.02 | 51.62 | 54.92 | 57.97 | 60.81 | |
| | | | | | | | | | | | | | |



ARTICULATED FLEX LANCE SAFETY STOP FOR TUBE SHEET MOUNTING

This versatile lance stop or anti-withdrawal device, called a "Chicken Wing," attaches easily to the tube sheet for safer pipe cleaning operations and takes the hand-held Flex Lance Safety Grip to the next level. It is for vertical or horizontal applications, and its wide range of expansion accommodates any size of tube sheet.

Construction is zinc plated steel with steel handles, anodized aluminum housing, and it includes a Lexan° splash guard. The stops for six sizes of lances (both Parker and Spir Star) are provided by a quick-change insert, which is built in to the design. This eliminates the problem of lost lance stops and makes changing to a different lance diameter quick and easy.



Control Guns

HAND-HELD DUMP STYLE CONTROL GUNS

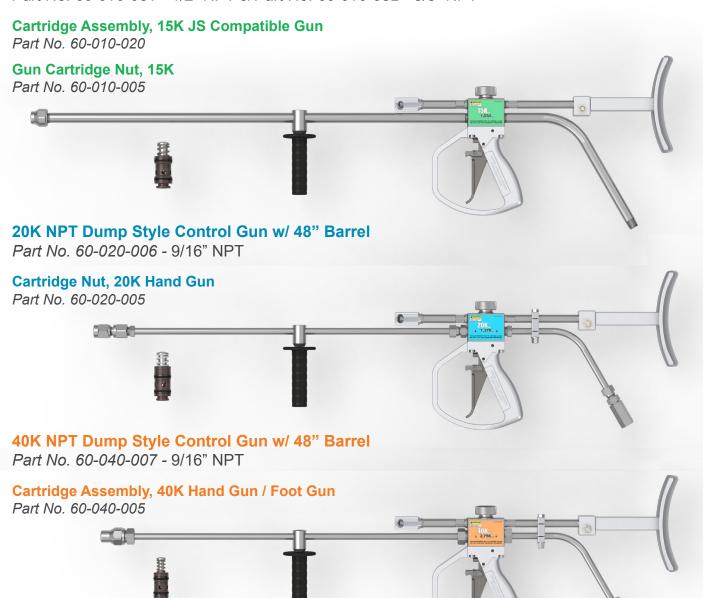
These guns are the new standard and are built tough for the demands of today's contracting environment.

Features:

- · Lightweight and easy to overhaul in the field with JS compatible cartridges
- The shoulder stock and hand grips are both adjustable, and the trigger has a safely lock to prevent accidental discharge
- · Dump tube port is positionable

15K NPT Dump Style Control Guns w/ 48" Barrels

Part No. 60-010-051 - 1/2" NPT & Part No. 60-010-052 - 3/8" NPT



HAND-HELD DOUBLE DUMP STYLE CONTROL GUNS

Our Double Dump Style Control Guns feature ergonomic advantages and a specially designed front handle. The handle itself is at a 90-degree angle to the barrel, thus conforming to the operator's hand and arm. Some other guns simply use two standard handles, which are cumbersome, uncomfortable, too heavy, and difficult to use.

Features:

- · Lightweight and easy to overhaul in the field with Jetstream compatible cartridges
- The shoulder stock and hand grips are both adjustable, and the trigger has a safely lock to prevent accidental discharge
- APS Double Dump Style Control Guns are available in 3/8" barrel size for 15K, 9/16" MP barrel size for 20K, and 9/16" HP barrel for the 40K

15K NPT Double Dump Style Control Gun w/ 48" Barrel

Part No. 60-050-006 - 3/8" NPT



20K MP Double Dump Style Control Gun w/ 48" Barrel

Part No. 60-055-001 - 9/16" MP



40K HP Double Dump Style Control Gun w/ 48" Barrel

Part No. 60-040-015 - 9/16" HP



Control Guns

HAND-HELD ZERO THRUST STYLE CONTROL GUNS

Our Hand-Held Zero Thrust Style Control Guns are designed primarily for underwater use, where the self-canceling forwards and backwards thrusts allow the operator to carry out blasting operations without being propelled away from the intended work area. These guns have applications on dry land, where a balanced tool is needed - for example, in a suspended gondola on the side of a building.

Features:

- The quick-change rebuild cartridge allows field overhaul in 30 seconds or less
- · For corrosion resistance, all components are of high grade stainless steel, and the complete assembly weighs as little as 15.15 lbs (6.89 kg)

15K NPT Zero Thrust Style Control Gun w/ 48" Barrel

Part No. 60-010-035 - 1/2" NPT



20K MP Zero Thrust Style Control Gun w/ 48" Barrel

Part No. 60-020-013 - 9/16" MP



40K HP Zero Thrust Style Control Gun w/ 48" Barrel

Part No. 60-040-012 - 9/16" HP



HAND-HELD DRY SHUT-OFF STYLE CONTROL GUNS

Enjoy the same benefits of our renowned Dump Style Control Guns with the added advantage of reduced water consumption, thus limiting the amount of waste to be removed from the work site.

Features:

- Lightweight (13-15 lbs depending on the barrel diameter) and easy to overhaul in the field with Jetstream compatible cartridges
- The adjustable comfort-contoured shoulder stocks front hand grips contribute to ease of use for operators, tending to diminish fatigue
- All feature the Quick-Change Cartridge for field overhaul in 30 seconds or less using common tools

15K NPT Dry Shut-Off Style Control Gun w/ 48" Barrel

Part No. 60-010-305 - 3/8" NPT



20K MP Dry Shut-Off Style Control Gun w/ 48" Barrel

Part No. 60-020-307 - 9-16" MP



Control Guns

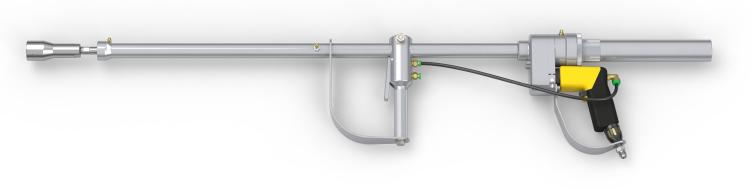
HAND-HELD ROTARY STYLE CONTROL GUN

The APS Cobra is an air operated control gun with a rotating barrel. The simple, robust design, combined with the high quality of manufacturing, makes this the perfect tool for Ultra High Pressure (UHP) jetting applications. When used together with our Tri-Mode Control Valve, the combination is the most costeffective, easy-to-use and maintain system on the market. It is ideal for the removal of paint and corrosion leaving a white metal finish, which is ready for coating.

Water jetting at UHP produces a surface which is equal to NACE No. 5/SSPC-SP12. Many of the major coating and paint manufacturers recommend the use of water jetting for surface preparation, and they produce coating products specially formulated for surfaces prepared by this method. The environmental advantages of HP and UHP water blasting for industrial cleaning are widely recognized, making it the preferred method for several industries.

Features:

- · Lightweight aluminum and stainless steel construction
- · Highest quality air motor
- The barrel supported on a ball bearing for smooth operation
- · Heavy duty thrust bearing in sealed swivel assembly
- · Quick-change swivel seal assembly
- The ability to accept a wide range of nozzles for almost any application

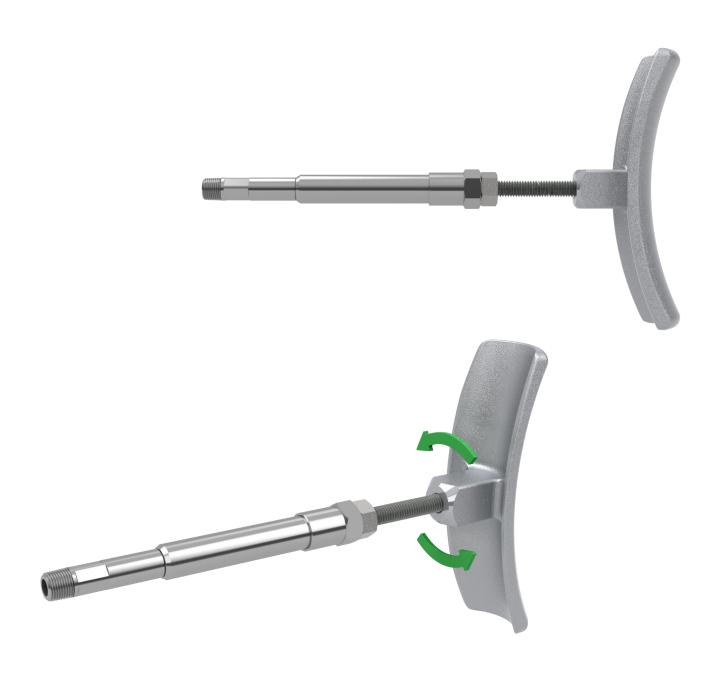


| Part No. | Barrel Length | Overall Length | Rotation Speed | Weight | Air Demand (Pressure PSI / Volume CFM) | Max Flow | Required Inlet Connection | Nozzle Connection | Operating Pressure |
|------------|------------------|-------------------|-------------------|-----------|--|-------------|---------------------------------|----------------------|-----------------------|
| 60-072-001 | 36 in. | 46 in. | 1700-3000 rpm | 10.75 lbs | 90 / 22 | 7 gpm | 3/8" HP Female | 9/16" HP Button | 40K psi |
| 60-072-062 | 48 in. | 58 in. | 1700-3000 rpm | 12.3 lbs | 90 / 22 | 7 gpm | 3/8" HP Female | 9/16" HP Button | 40K psi |

ADJUSTABLE SWIVEL TYPE SHOULDER STOCK

This fully adjustable shoulder stock is interchangeable with the standard version. It has the additional feature of being able to swivel during operation of the gun, to accommodate shoulder movements of the operator. This will help minimize operator fatigue. It is fully adjustable for length. The swiveling action can be made inoperable by means of a lock nut.

The assembly comprises all corrosion resistant materials, including a cast aluminum shoulder plate with all other components being stainless steel.



AIR ACTUATED DUMP / DIVERTER VALVES

Air Actuated Dump / Diverter Valves allow an operator to remotely control pressure in cleaning applications from 15,000 to 40,000 psi. When air is sent to the cylinder, the valve closes and allows the system to build pressure. The valve opens when the air is exhausted, reducing system pressure to near atmospheric.

Features:

- · 30-second field replaceable cartridge design for minimal downtime
- · Remote pneumatic operation for reduced operator fatigue and added convenience and safety
- Inlet and outlet connections threaded 9/16" MP for most pressures
- · Heavy duty air cylinder
- · All components precision machined from stainless steel

Foot Gun Assembly, 20K Air Actuated w/ Base Plate Part No. 61-020-019

High Flow 20K, Air Operated **Diverter Valve w/ Base Plate** Part No. 61-020-034.2



Foot Gun Assembly, 15K Air Actuated Part No. 61-001-007



Foot Gun Assembly, 40K Air Actuated w/ Base Plate Part No. 61-040-006



Cartridge Assembly, 15K JS Compatible Gun Part No. 60-010-020



Cartridge Assembly, **20K JS** Compatible Gun Part No. 60-020-010



Cartridge Assembly, CF Mag used in 15/20K, (JS Compatible: 52750) Part No. 61-020-030



Cartridge Assembly, 40K Hand Gun / **Foot Gun** Part No. 60-040-005

FOOT OPERATED CONTROL VALVES

These Foot Operated Control Valves (Foot Guns) are designed for smooth, reliable operation. They are easily rebuilt in the field in 30 seconds by unscrewing the dump tube, which removes the used valve assembly. The operator then snaps a new cartridge style valve in to the dump tube adapter and returns the whole assembly to the gun.

> Foot Gun Assembly, High **Volume 15K 1" NPT Dump Style**

Part No. 61-050-001

Foot Gun Assembly, APS 20K 9/16" MP

Part No. 61-020-003



Gun Inlet Tube, 15K Part No. 60-010-012

Foot Gun Assembly, APS 40K 9/16" HP

Part No. 61-040-003



Cartridge Assembly, 15K JS Compatible Gun Part No. 60-010-020



Cartridge Assembly, **15K High Flow Foot** Gun (APS)

Part No. 61-050-012



Cartridge Assembly, **20K JS** Compatible Gun Part No. 60-020-010



Cartridge Assembly, 40K Hand Gun / **Foot Gun**

Part No. 60-040-005

Control Guns

UNLOADER VALVES

Unloader Valves allow for the operation of multiple guns from one or more pumps. Changes in the flow demands for high pressure water are automatically accommodated, with the excess being diverted back to the feed side of the pump. These valves can also be rebuilt in the field in five minutes.



Shut-In Regulator, 15K Hand-Adjustable 3/4" NPT (F) Inlet (JS Compatible: 55515) Part No. 60-010-350

Shut-In Regulator, 20K **Hand-Adjustable Inlet** 1"-16 Port Male (JS Compatible: 55570) Part No. 60-020-361

Replacement Pump Parts JETSTREAM UNI-VALVES

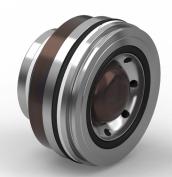
These Valve and Seat Assemblies (Cartridges) and Seal Kits replace the corresponding Uni-Valve components in JS Fluid Ends. Please check the JS Part No. shown below the APS Part No. when making a selection.

Valve Assembly, Cartridge (1st Gen.)

Part No. 25-004-430 (JS Compatible 50365)

Compatible w/ JS UNx Fluid End Model Numbers:

- 4215
- 3615 (1st Generation)
- 4215N (1st Generation)
- 4515B (1st Generation)
- 4015B
- 3715B



Seal Kit for Cartridge Valve Part No. 25-004-431 (JS Compatible 50370)

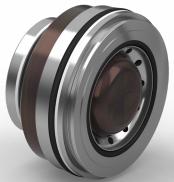


Cartridge Valve Assembly, 15K

Part No. 25-004-458 (JS Compatible 52870)

Compatible w/ JS UNx Fluid End Model Numbers:

- 5015Q
- 4215HF
- 3615 (1st Generation)
- 4215N
- 4215QN
- 4515B



Seal Kit, 15K Cartridge Valve

Part No. 25-004-459 (JS Compatible 52875)

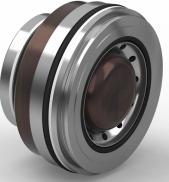


Valve Assembly, 20K

Part No. 25-004-407 (JS Compatible 51790)

Compatible w/ JS UNx Fluid End Model Numbers:

- 5020Q
- 4220
- 3620



Seal Kit, 20K Cartridge Valve

Part No. 25-004-409 (JS Compatible 54065)





Accessories

PRESSURE REGULATING VALVES

A Pressure Regulating Valve (PRV) is used on both diesel and electric pumping units to divert a portion of the flow to a low pressure outlet. It is a hand-adjusted needle valve, and it can be used to control pressure when the application requires a flow at the low end of the pumping unit operating range. For electric units a PRV is required equipment because the speed of the drive is not adjustable.

The design provides:

- Simple field rebuild using the quick-change cartridge makes down time two minutes or less, including the locking of the adjuster handle, after the pressure is set
- · Easy handle adjustment without the need for wrenches
- · All components machined from stainless steel
- · Direct mounting to fluid end discharge manifold
- · A base mounted model, called a Gauge Board, is available with protective cage and gauge (see next page)

Assembly, 15K JS Compatible **Pressure Regulating Valve (PRV)**

Part No. 65-110-015



PRESSURE REGULATING VALVES



Gauge Board Assembly, **Pressure Gauge & 15K PRV** Part No. 65-010-004



Gauge Board Assembly, Pressure Gauge & 20K PRV Part No. 65-020-005



Cartridge Assembly, 15K FDV Part No. 70-010-004



Cartridge Assembly, 20K FDV / PRV Part No. 70-020-011

Accessories

FLOW DIVIDER VALVES

The new Flow Divider Valves (FDV's) are for applications where two dump style guns are to be operated from one pump. The FDV will maintain full pressure to either gun when the other gun is dumping. When both guns are operating, the flow and pressure will be unaffected.

These valves are very easy to set up. They are of very rugged construction, and the only wear part is a cartridge which can be quickly changed in the field.

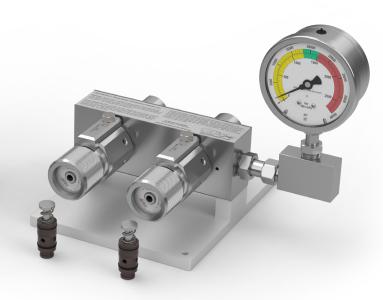
Assembly, JS Compatible 15K FDV without Pressure Gauge

Part No. 70-022-001

Assembly, JS Compatible 20K FDV without Pressure Gauge (JS Compatible: 52190)

Part No. 70-032-001





Cartridge Assembly, 15K FDV

Part No. 70-010-004

Cartridge Assembly, 20K FDV / PRV

Part No. 70-020-011

Accessories TRI-MODE VALVE

The 40K Tri-Mode Valve, commonly called a Tumble Box, has been developed after extensive research aimed at identifying the features that contractors and end users need most. The air side incorporates a robust, easy-to-operate shut-off valve, and a large, easy-to-read, horizontally mounted gauge that is protected by a heavy rubber buffer. The shuttle valve is a simple cartridge type design, which is easy to service and replace.

The Tri-Mode Valve has three distinct operating modes:

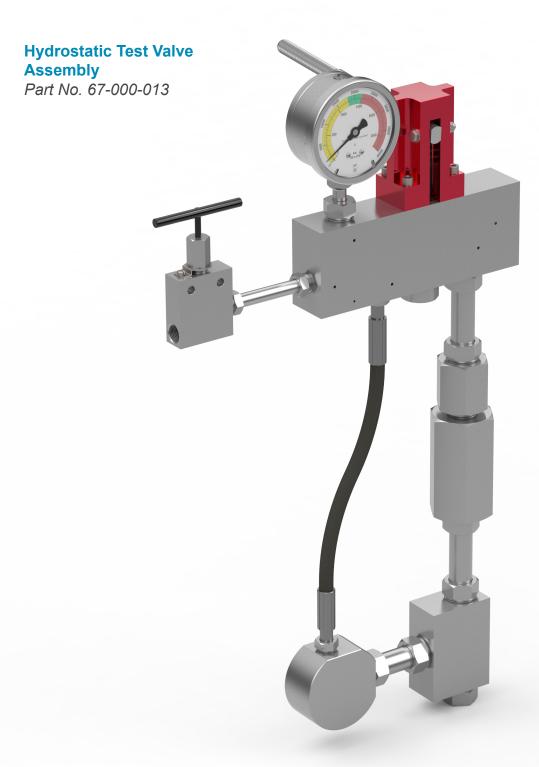
- **Pressure Dump Mode:** This is used when more than one gun is being supplied with high pressure water by the same pump. To achieve this arrangement, a nozzle with the same flow as the combined nozzles of the gun is located at the inlet to the energy diffuser. This maintains the same system pressure when there is not flow to the gun. The energy from the jet is absorbed by impacting the inside of the dissipater tube and then flowing away out of the end of the tube assembly.
- Low Pressure Dump Mode: This is used when only one gun is used, and the high pressure water is supplied by a plunger pump. (Intensifier pumps do not work well if subjected to frequent pressure reductions to atmosphere.) In this configuration the Energy Diffuser and the nozzle assembly are not required, and the unused flow is discharged at low pressure when the trigger of the gun is released.
- **Dry Shut-Off Mode:** This is employed when the pump has its own pressure compensator system (unloader). This is commonly found on an intensifier pump, as are plunger pumps. The unused flow is diverted at the pump, so the energy diffuser port at the valve can be plugged.



Accessories

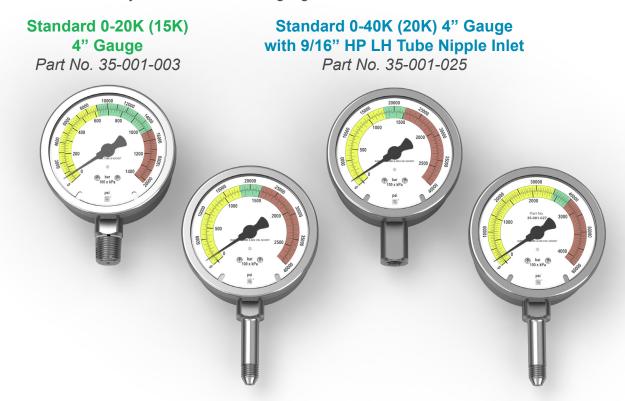
HYDROSTATIC TEST VALVE

The Hydrostatic Test Valve is designed for the pressure testing of drill pipe and production or casing pipes. It is designed for pressures up to 20K psi. The large 1" MP primary connections enable rapid filling of the piping to be tested. The lever operated dump valve provides precise adjustment of the inlet pressure. This valve uses a 20K dump gun cartridge which can quickly be replaced in the field. A needle valve is used to bleed off pressure as necessary.



WATER BLASTING PRESSURE GAUGES

We offer a complete range of pressure gauges designed specifically for water blasting applications. Features include stainless steel construction, glycerine filled, clear laminated safety glass, precision movement, and easy-to-read, color-coded gauge faces.



Standard 0-40K (20K) 4" Gauge with 1/4" HP Female Inlet Part No. 35-001-005

Standard 0-60K (40K) 4" Gauge with 9/16" HP LH **Tube Nipple Inlet** Part No. 35-001-027

| Part No. | Description | PSI / Bar |
|------------|--|------------|
| 35-001-003 | Pressure Gauge, 4" 0-20K Range, 15K MAWP SS GF 1/2" NPTM Bottom Mount (GDWJ Type: 77512020) | 15K / 1034 |
| 35-001-004 | Pressure Gauge, 6" 0-20K Range, 15K MAWP SS GF 1/2" NPTM Bottom Mount (Nuova Fima) | 15K / 1034 |
| 35-001-024 | Pressure Gauge, 4" 0-20K Range, 15K MAWP SS GF 1/2" BSPP Bottom Mount | 15K / 1034 |
| 35-001-033 | Pressure Gauge, 4" 0-30K Range, 15K MAWP SS GF 1/2" NPTM Bottom Mount (Nuova Fima) | 15K / 1034 |
| 35-001-005 | Pressure Gauge, 4" 0-40K Range, 20K MAWP SS GF 1/4" HPF Bottom Mount (Nuova Fima) | 20K / 1379 |
| 35-001-025 | Pressure Gauge, 4" 0-40K Range, 20K MAWP SS GF 9/16" HP Tube Nipple Bottom Mount (Nuova Fima) | 20K / 1379 |
| 35-001-007 | Pressure Gauge, 6" 0-60K Range, 40K MAWP SS GF 1/4" HPF (9/16"-18 RHF) Bottom Mount | 40K / 2758 |
| 35-001-012 | Pressure Gauge, 4" 0-60K Range, 40K MAWP SS GF 1/4" HPF Bottom Mount (Nuova Fima) | 40K / 2758 |
| 35-001-027 | Pressure Gauge, 4" 0-60K Range, 40K MAWP SS GF 9/16" HPF Tube Nipple Bottom Mount (Nuova Fima) | 40K / 2758 |
| 35-001-028 | Pressure Gauge, 6" 0-60K Range, 40K MAWP SS GF 9/16" HPM Tube Nipple Bottom Mount (Nuova Fima) | 40K / 2758 |

Accessories

ERIET THREAD PROTECTION



Benefits:

Yellow Lube Water Blasting Thread Protection eliminates wear and galling. Yellow Lube adheres to heavily loaded rotating, reciprocating or sliding parts. It may be used on any heavily loaded equipment that would normally be lubricated with an extreme pressure grease. Yellow Lube is a film forming lubricant having a strong polar attraction to metal. During use, a chemical reaction occurs on areas subjected to heavy loading and frictional heat. This reaction creates a resilient, self-lubricating layer in the metal surface that helps prevent further abrasive contact.

Applications:

Yellow Lube Water Blasting Thread Protection is a thread lubricant designed to protect and seal stainless NPT fittings. In high pressure applications such as water blasting, steps to creating a seal are as follows:

- 1. Be sure the fitting is clean and dry
- 2. Apply Yellow Lube to all mating surfaces
- 3. Make fitting up hand tight
- 4. Using a wrench or other device, tighten the connection one to one and a quarter full turns
- 5. Solid metal to metal seal will have been established: the crest of the threads will be buried in the root, but without galling

Part No. 24-001-023 - 3 oz Tube Part No. 24-001-011 - 6 oz Tube



Specifications

| NLGI Grade | 2 1/2 |
|--|-----------------------------------|
| Appearance | Yellow, smooth |
| Solids Content | 45% |
| Temperature Range | 0°F. to 300°F. |
| Oil description | Synthetic |
| Viscosity, SUS @ 1 00°F | 730 |
| Water spray off (with 5% salt spray)ASTM D-4049 | |
| Evaporation Rate | Nil |
| Thickener | |
| U.S. Environmental Protection Agency static shee | en testPass |
| Active Toxicity* | None |
| K-Factor | (316 Stainless Steel Bolts) 0.174 |

ROTATING PIPE CLEANING SYSTE

APS is now an authorized distributor of the "Super Hurricane" Rotating Pipe Cleaning System. It is lightweight, tough, reliable, and built to take on the toughest blocked pipelines in the utility, industrial, or coal preparation industries. It is constructed with a stainless steel tubular frame.

The "Super Hurricane" can clean as far as 1,200 feet through fifteen 90° elbows, inside or outside corners, even irregular surfaces, such as weld beads without stopping.

"Super Hurricane" removes aluminum, hydrate, silicate, calcide, bauxite, calcium oxide, cement, ferrum oxide, hard nickel coke, magnesium oxide, polystyrene, slag and mill scale, titanium 2-oxide, silicium oxide, sodium chroiderust, or any other corrosion build-up.

Features:

- · Weight: 98 pounds
- Overall size: 48" Long x 20" Wide x 20" Tall
- Flowrate QD: Maximum 120 I/min to 3.000 I/min
- Uses 50 gallons of water per minute
- Water pressure: 300 1,450 Bar (21K psi)
- Air consumption: 72.5 psi (30 liters per second)
- 3.5 kW output motor
- Operating pressure gauge
- · Includes a nozzles RPM gauge

The "Super Hurricane" Rotating Pipe Cleaning System process is completely environmentally friendly.

Super Hurricane, Rotating **Hose Device** Part No. 99-250-000



Produced by

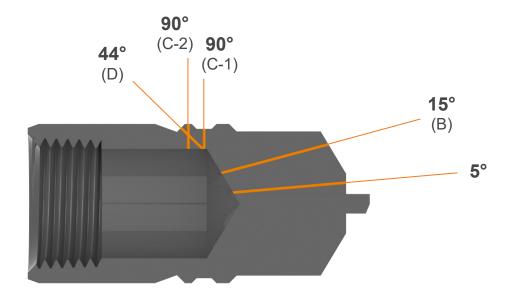


Extras

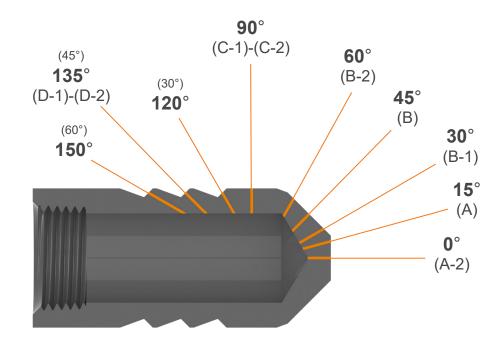
NOZZLE DRILL PATTERNS

Advanced Pressure Systems tungsten carbide tipped tube nozzles are to be used in rotary applications for the removal of hardened plugs in heat exchanger tubes.

Please specify drilling pattern, pressure, and flow when ordering.



Standard Nozzles with Carbide Blade



Typical Tube Nozzle Drill Pattern

SPECIALTY PRODUCTS

Water Blasting Parts and Equipment

Tube Nozzles | Surface Nozzles | Lances & Related | Control Guns
Replacement Pump Parts | Accessories





ADVANCED PRESSURE SYSTEMS

701 South Persimmon Street, Suite J, Tomball, TX 77375 Phone: (281) 290-9950 • Fax: (281) 290-9952

Email orders: sales-team@advancedpressuresystems.com
Website: http://www.advancedpressuresystems.com