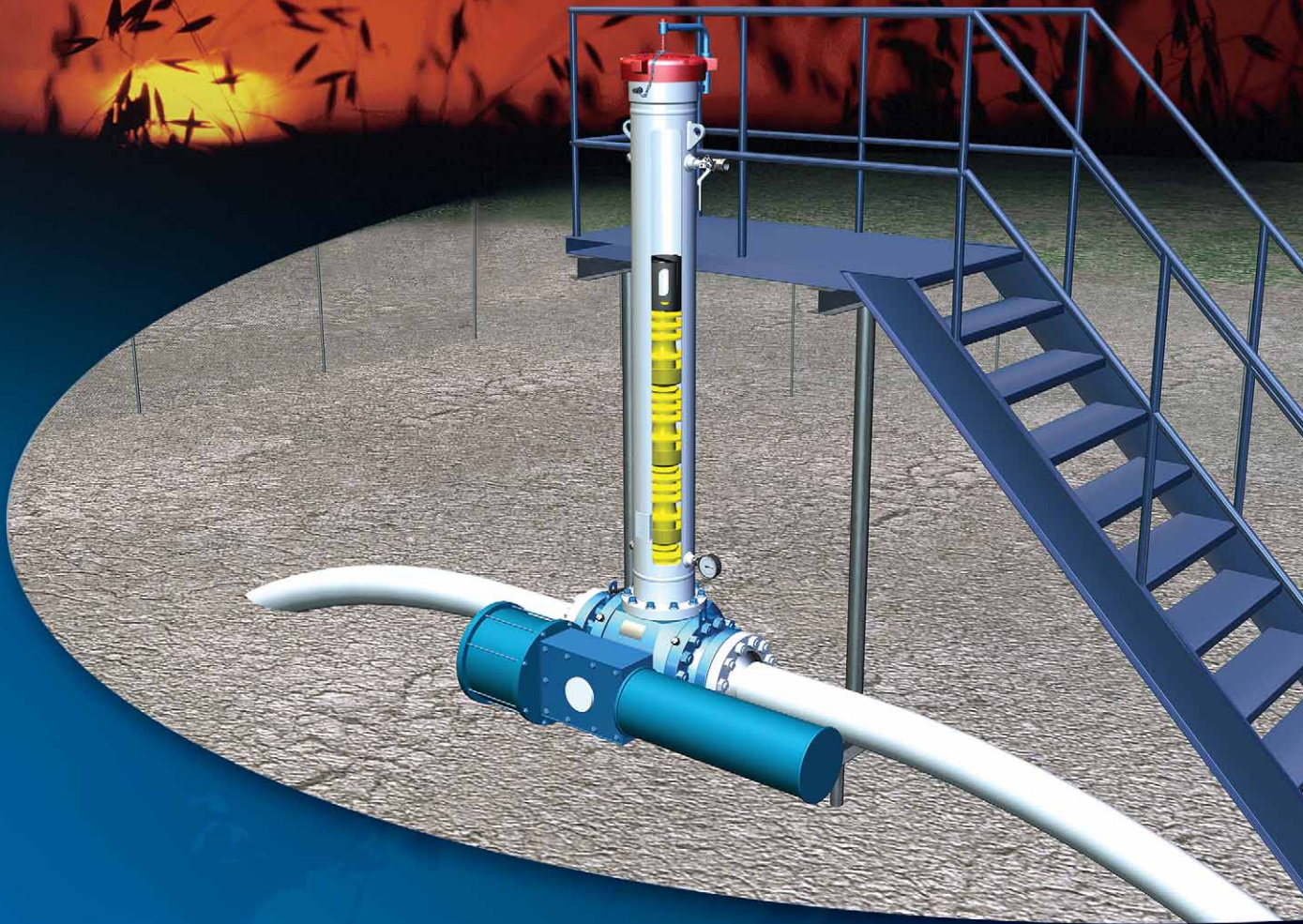




# AUTOMATIC PIGGING

2 inch through 12 inch



ARGUS MACHINE CO. LTD.  
*For safe and efficient pigging*

[www.argusmachine.com](http://www.argusmachine.com)



The Argus Automatic Pig Launcher allows for remote pigging operation for up to eleven launches. This system is ideally suited for remote well locations, limited access, offshore production platforms and environmentally sensitive areas.

## CONSIDER THESE BENEFITS

1. Optimized production through effective liquids sweeping and debris removal
2. Reduced travel time and operator intervention resulting in lower operational costs
3. Remote pigging from the control room
4. Enhanced operator safety through reduced intervention
5. Reduced emissions by more than 85%
6. Reduce and prevent the formation of hydrates by effectively keeping moisture content in the pipeline at lower levels
7. Mitigate corrosion through frequent pigging
8. Maintain pipeline integrity
9. Small footprint and minimized weight for offshore applications
10. Pneumatic, electric field power supply, manual or self contained solar actuation options



## INVEST IN INCREASED PRODUCTIVITY



Gas flow rates - and ultimately, your bottom line - are influenced by pipeline constrictions. Debris and extraneous fluid within the pipeline causes reduced flow and results in decreased production.

Installation of an Argus Automatic Pig Launcher, coupled with an appropriate pigging program, consistently maintains lower pressure within the pipeline. This equates to more efficient flow rates and increased production.

While the payback period may vary, the purchase of an Argus Automatic Pig Launcher is an investment which pays for itself in a relatively short period of time, then continues to generate profits.

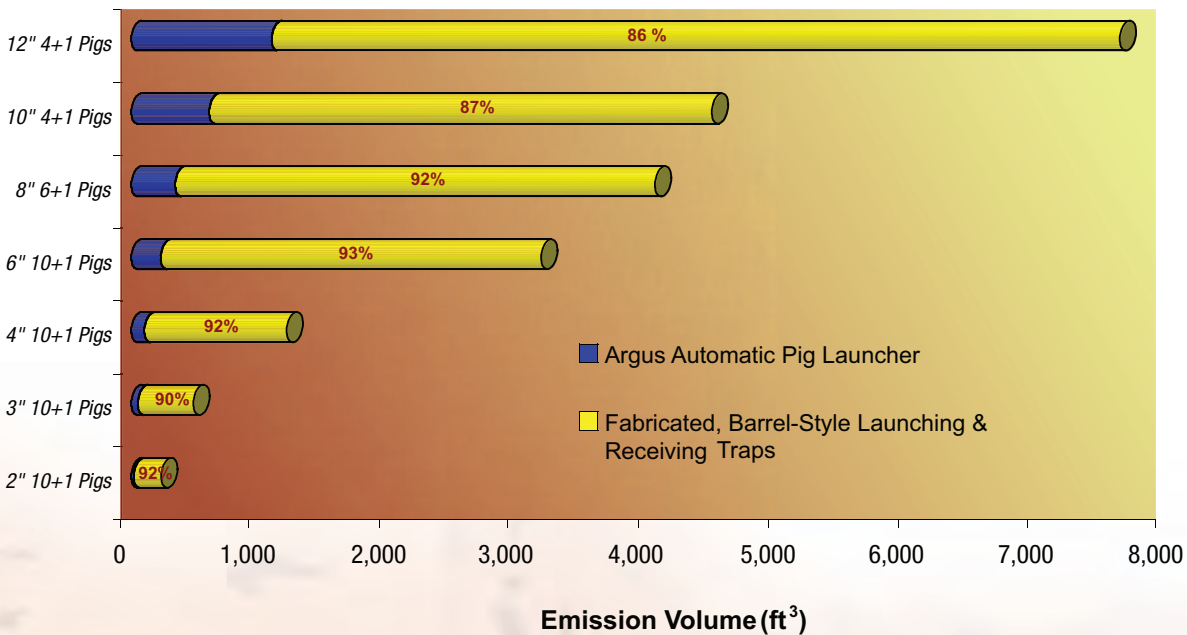
## REDUCE EMISSIONS BY MORE THAN EIGHTY-FIVE PERCENT



Compared to conventional barrel-style launching and receiving, the Argus Automatic Pig Launcher is clearly more efficient, saving you time and money.

### GAS EMISSIONS COMPARISON

Argus Automatic Pig Launcher vs. Fabricated Barrel-Style Launching & Receiving Traps



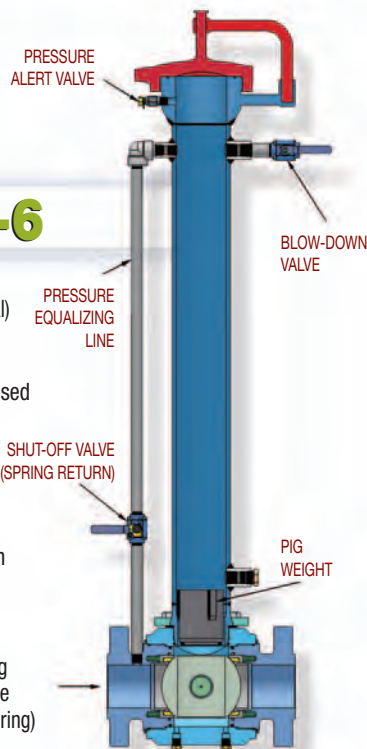
\*Comparison criteria based on one cycle of the Automatic Pig Launcher compared to equivalent number of cycles required by the Barrel Launcher as dictated by total number pigs. (Approximation uses the "ideal gas law", constant temperatures, and gas pressure @ 1480 psi).



# OPERATION AND LOADING OF AUTOMATIC PIG LAUNCHER

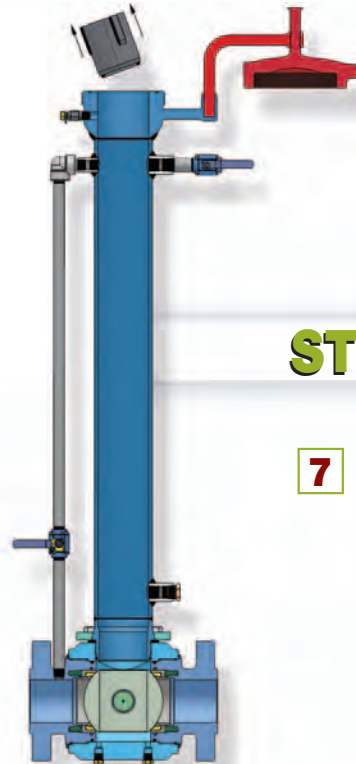
## STEPS 1-6

- 1** Close pig valve (gain of signal)
- 2** Shut-off valve on pressure energizing line must be closed
- 3** Relieve pressure in pig launcher by opening the blow-down valve
- 4** Open drain valve on bottom of pig valve (if equipped)
- 5** Install safety pin through actuator adapter, preventing accidental operation of valve (pin should freely engage to ring)
- 6** Open pressure alert valve (verify system has been effectively bled-down)



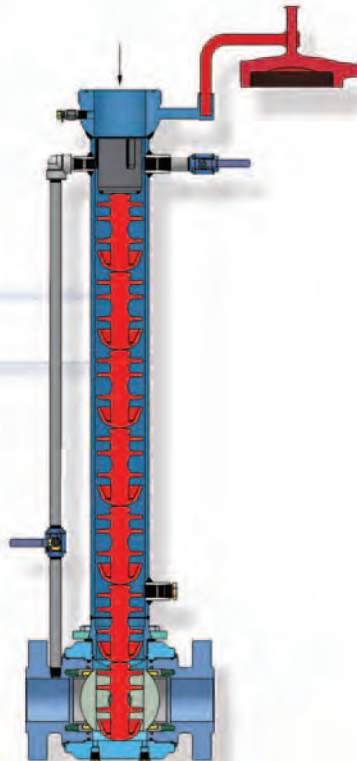
## STEP 7

- 7** Open closure & remove pig weight using the supplied pig weight retriever



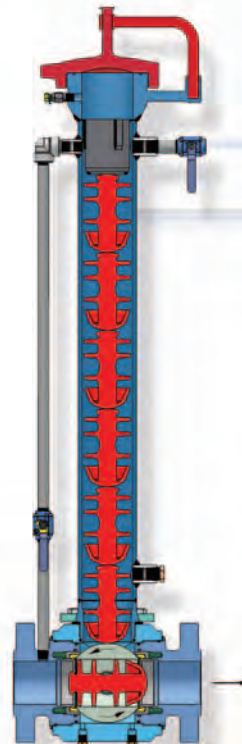
## STEP 8

- 8** Install Argus pigs nose down & re-install pig weight



## STEPS 9-14

- 9** Re-install cap on closure & pressure alert valve
- 10** Close blow-down & drain valves
- 11** Remove safety pin from actuator adapter
- 12** Hold-open the shut-off valve on the pressure equalizing line until pig launcher chamber is fully energized
- 13** Check closure, pressure alert valve, & blow-down valve for leakage
- 14** Open pig valve and launch 1st pig (loss of signal)



# WEIGHTS AND DIMENSIONS

## MODEL "P" 10+1 AUTOMATIC PIG LAUNCHERS

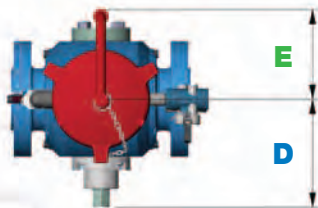
| SIZE AND PRESSURE RATING | A (Overall Length) |     |        |     | B      |      | C      |     | D      |     | E      |     | APPROX. WEIGHT |     |
|--------------------------|--------------------|-----|--------|-----|--------|------|--------|-----|--------|-----|--------|-----|----------------|-----|
|                          | RF                 |     | RTJ    |     | inches | mm   | inches | mm  | inches | mm  | inches | mm  | lbs            | kg  |
|                          | inches             | mm  | inches | mm  |        |      |        |     |        |     |        |     |                |     |
| 2" 150 ANSI              | 11.50              | 292 | 11.88  | 302 | 59.25  | 1505 | 4.00   | 102 | 7.62   | 194 | 6.25   | 159 | 205            | 93  |
| 2" 300 ANSI              | 14.25              | 362 | 14.62  | 371 |        |      |        |     |        |     |        |     | 215            | 98  |
| 2" 600 ANSI              | 14.25              | 362 | 14.62  | 371 | 72.72  | 1847 | 4.75   | 121 | 8.38   | 213 | 6.50   | 165 | 215            | 98  |
| 3" 150 ANSI              | 12.75              | 324 | 13.12  | 333 |        |      |        |     |        |     |        |     | 290            | 132 |
| 3" 300 ANSI              | 14.00              | 356 | 14.12  | 359 | 94.56  | 2402 | 5.62   | 143 | 10.75  | 273 | 8.50   | 216 | 310            | 141 |
| 3" 600 ANSI              | 14.00              | 356 | 14.12  | 359 |        |      |        |     |        |     |        |     | 310            | 141 |
| 4" 150 ANSI              | 15.50              | 394 | 16.00  | 406 | 126.56 | 3215 | 7.12   | 181 | 12.12  | 308 | 9.88   | 251 | 530            | 240 |
| 4" 300 ANSI              | 16.00              | 406 | 16.62  | 422 |        |      |        |     |        |     |        |     | 540            | 245 |
| 4" 600 ANSI              | 17.00              | 432 | 17.12  | 435 | 1200   | 544  | 1080   | 490 | 1120   | 508 | 1200   | 544 |                |     |
| 6" 150 ANSI              | 18.00              | 457 | 18.38  | 467 |        |      |        |     |        |     |        |     |                |     |
| 6" 300 ANSI              | 18.88              | 480 | 19.38  | 492 |        |      |        |     |        |     |        |     |                |     |
| 6" 600 ANSI              | 22.00              | 559 | 22.12  | 562 |        |      |        |     |        |     |        |     |                |     |

## MODEL "D" 6+1 AUTOMATIC PIG LAUNCHERS

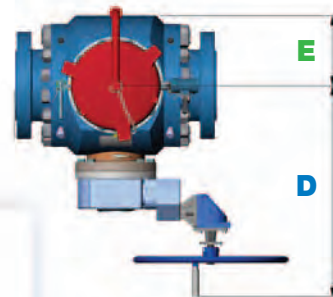
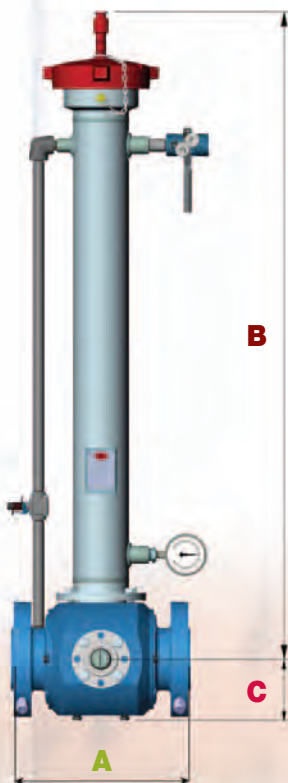
| SIZE AND PRESSURE RATING | A (Overall Length) |     |        |     | B      |      | C      |     | D      |     | E      |     | APPROX. WEIGHT |      |
|--------------------------|--------------------|-----|--------|-----|--------|------|--------|-----|--------|-----|--------|-----|----------------|------|
|                          | RF                 |     | RTJ    |     | inches | mm   | inches | mm  | inches | mm  | inches | mm  | lbs            | kg   |
|                          | inches             | mm  | inches | mm  |        |      |        |     |        |     |        |     |                |      |
| 8" 300 ANSI              | 28.50              | 724 | 29.00  | 737 | 109.25 | 2775 | 10.67  | 271 | 32.70  | 831 | 12.00  | 305 | 2605           | 1182 |
| 8" 600 ANSI              | 31.20              | 792 | 31.32  | 796 |        |      |        |     |        |     |        |     | 2755           | 1250 |

## MODEL "D" 4+1 AUTOMATIC PIG LAUNCHERS

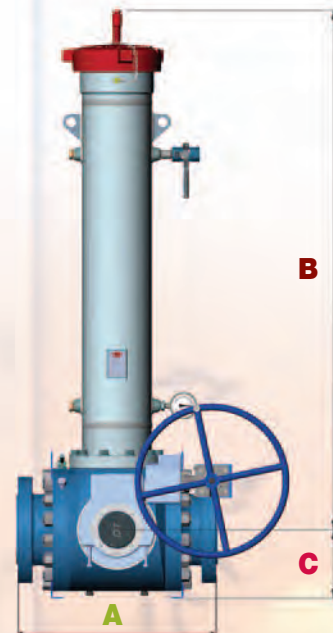
|              |       |      |       |      |        |      |       |     |       |     |       |     |      |      |
|--------------|-------|------|-------|------|--------|------|-------|-----|-------|-----|-------|-----|------|------|
| 10" 300 ANSI | 35.36 | 898  | 35.86 | 911  | 98.50  | 2502 | 12.00 | 305 | 34.56 | 878 | 13.62 | 346 | 3800 | 1724 |
| 10" 600 ANSI | 37.12 | 943  | 37.25 | 946  |        |      |       |     |       |     |       |     | 3975 | 1803 |
| 12" 300 ANSI | 40.75 | 1035 | 41.25 | 1048 | 111.50 | 2832 | 14.17 | 360 | 38.88 | 988 | 15.66 | 398 | 5950 | 2699 |
| 12" 600 ANSI | 42.06 | 1068 | 42.19 | 1071 |        |      |       |     |       |     |       |     | 6130 | 2781 |



MODEL "P"



MODEL "D"



Argus Machine Co. Ltd. has provided design expertise, quality manufacturing and reliable service to the oil and gas industry since 1958. Argus holds five API licenses and has a quality assurance program that is certified to API Q1 and ISO 9001:2008; ensuring audited quality in all our products.



ARGUS MACHINE CO. LTD.

**HOUSTON**

12623 Duncan Rd, Suite 1  
Houston, Texas 77066  
Phone: (281) 781-8581

5820 – 97th Street Edmonton, AB Canada T6E 3J1

Phone: (780) 434-9451

Toll Free: 1-888-434-9451

[www.argusmachine.com](http://www.argusmachine.com)

**CALGARY**

1450, 540 - 5th Avenue SW  
Calgary, AB T2P 0M2  
Phone: (403) 263-3517

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