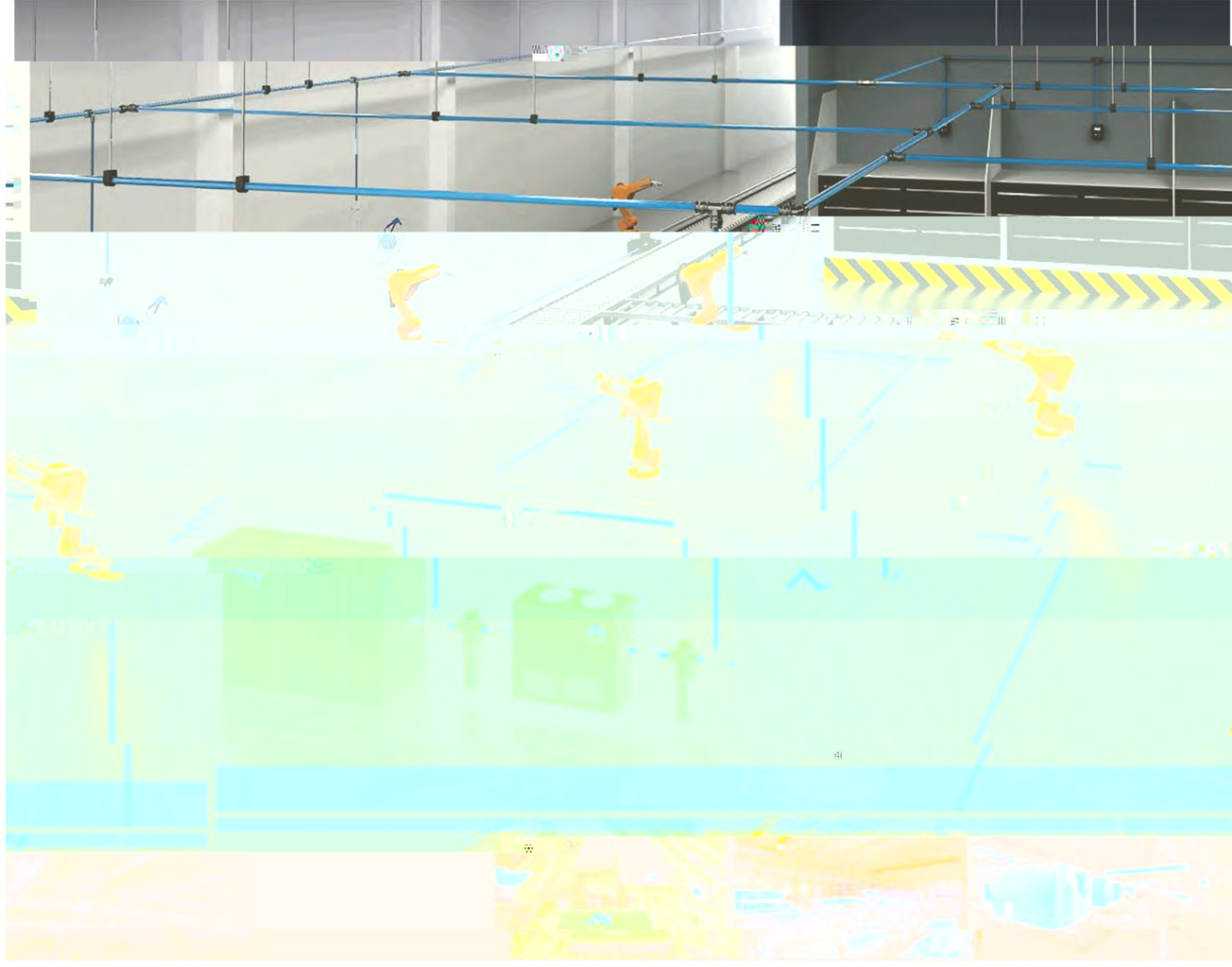
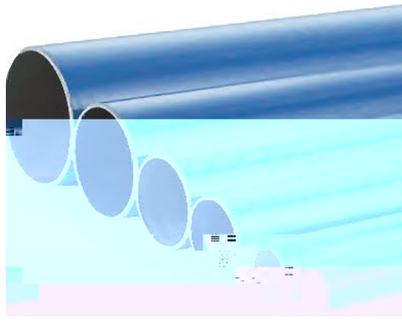
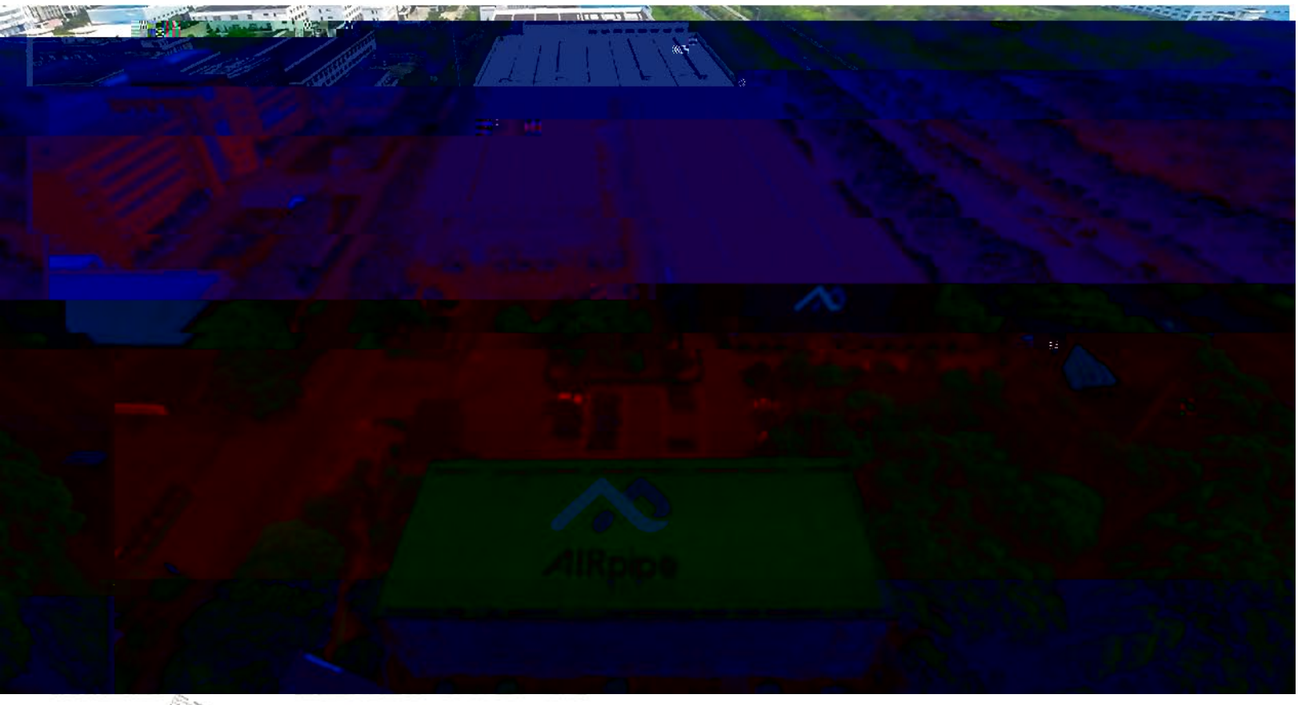
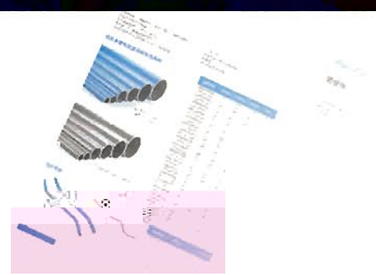


# ENGINEERED FOR SUPERIOR PERFORMANCE





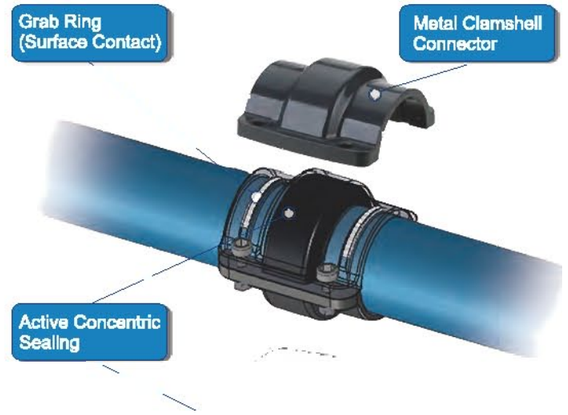



## Superior Reliability & Longevity

- 
- M
- 
- R

## Energy & Cost Savings

- 
- C




## Quick & Easy Modular Installation

- C
- 
- R
- C

**Dual Performance**
- Surface contact and active sealing
- Working Pressure up to 16bar
- 20 year life

# Product Range & Features

## Rigid Aluminum Pipe

## Ball & Butterfly Valves

## Pipe Connectors

## Flexible Hoses

## Quick Drop Fittings

## Tools & Accessories

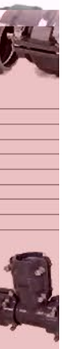
Engineered for Superior Performance

BLUE ALUMINUM PIPE

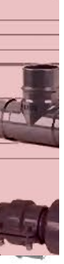
GRAY ALUMINUM PIPE

EQUAL PIPE TO PIPE CONNECTORS

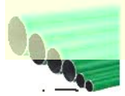
EQUAL TEE



REDUCING PIPE TO PIPE CONNECTORS



GREEN ALUMINUM PIPE



END CAP

EQUAL 90° ELBOW

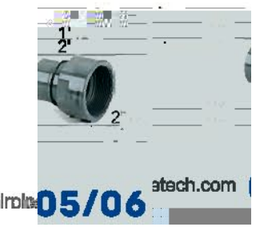
REDUCING TEE

LATERAL EQUAL TEE

EQUAL 45° ELBOW

ALUMINUM JOINT FEMALE THREADED

LATERAL REDUCING TEE



Engineered for Superior Performance

## ALUMINUM JOINT MALE THREAD

## QUICK DROP



## QUICK DROP

## ALUMINUM ELBOW MALE

## ALUMINUM ELBOW FEMALE

## QUICK DROP FEMALE THREAD

## QUICK CONNECT VALVE MALE THREAD

## QUICK CONNECT BALL VALVE

## VALVED WALL BRACKET FEMALE THREAD

## BRASS BALL VALVE

## NON-VALVED WALL BRACKETS

## SWING CHECK VALVE

## BUTTERFLY VALVE

## ALUMINUM FLANGE

## FLANGE

## FLANGE(CAST IRON) FEMALE THREAD

## FLANGE(STAINLESS STEEL) FEMALE THREAD

## FLEXIBLE HOSES

## PNEUMATIC CONNECTOR MALE

## WATER DRAIN VALVE

Engineered for Superior Performance

## FIXTURE CLAMPS & ACCESSORIES

## THREADED ADAPTORS

## ATMOLYSIS BAG

## SAMPLE BOX

## TOOL BOX

## DRILL (TAPPER)

## DRILL HOLDER

## PRESSURE METER

## MARKER

## HOLE DEBURRER



## ALUMINUM PIPE DEBURRER

## SPANNERS

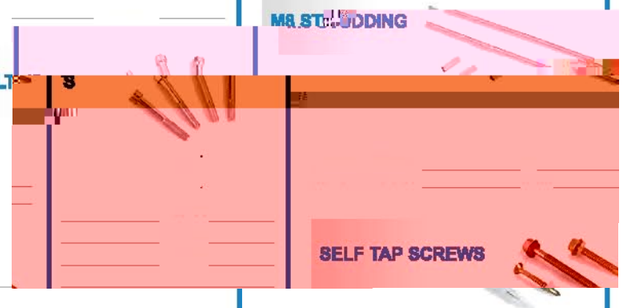
## ALUMINUM PIPE CUTTER

## ELECTRIC PIPE CUTTER

## FIXING BOLTS

## M8 STUDDING

## SELF TAP SCREWS



## SQUARE STEEL

## ADJUSTABLE BRACKET

## GRIDER CLAMP

## SQUARE STEEL CLAMP

## PIPE BENDING TOOL

## WALL MOUNTED BRACKET

## UNIVERSAL BEAM SUSPENDER

## FIXTURE CLAMPS & ACCESSORIES

## WIRE SUSPENSION CABLE

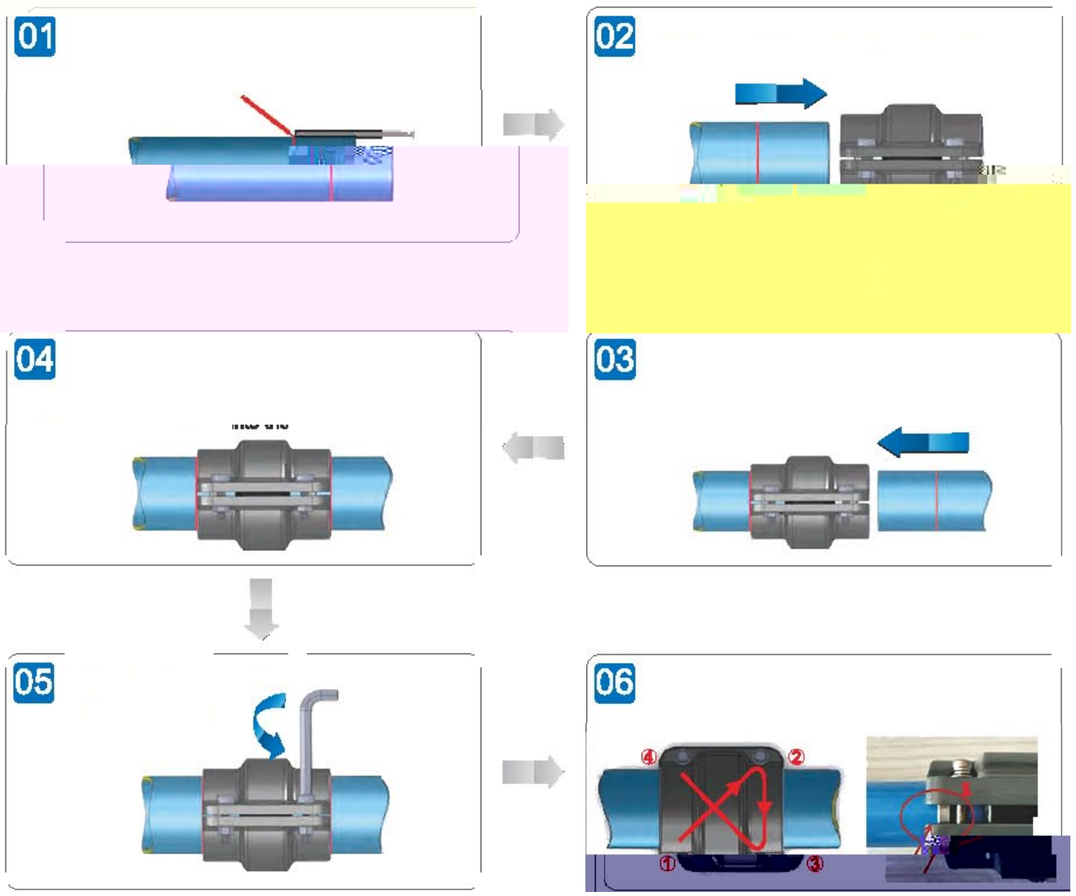
## LUGGING MACHINE

# Superior Reliability!

## Insertion Depth S For DN20~DN50 Connector

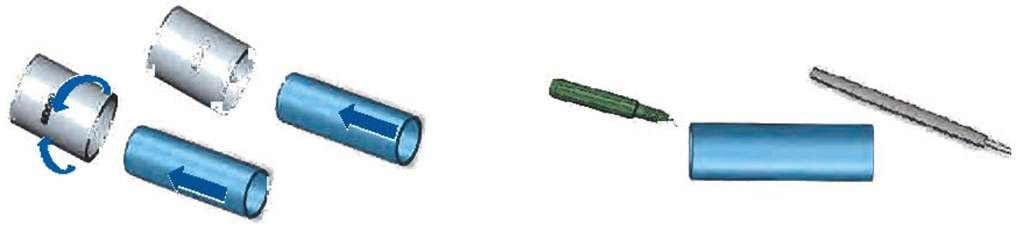
| DN | Insertion depth S (mm) |
|---|---|
| 50 | 39 |

## Installation Guide for DN20~DN50

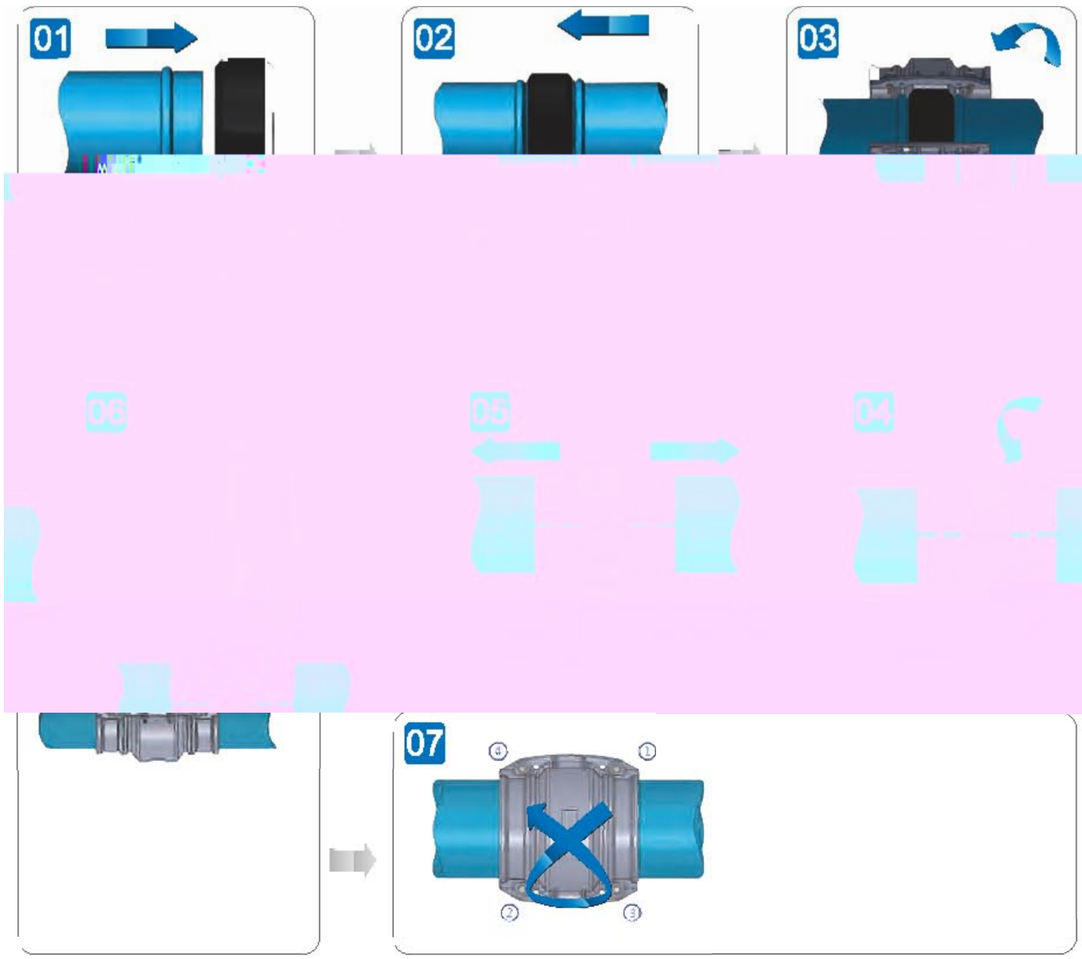





## Deburr & Chamfer The Outer and Inner Edges Before Installation



## Installation Guide for DN63~DN200



## Hand-held hydraulic lugging machine operation requirements

Manually open the jaws of the clamp and insert the aluminum pipe into the clamp as far as possible.

Release the jaws. Press the trigger and crimp the pipe until a"snap" sound is heard.

Re-open the two jaws to remove the pipe and rotate the pipe slightly. Put the jaw side to the mark position.

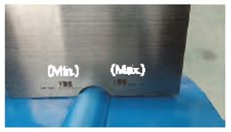
Renew the operation until the required minimum number of lugs for each diameter is finished.

### Number of lugs for each diameter:

| AIRPIPE | DN63 | DN80 | DN100 | D3 | DN200 |
|---|---|---|---|---|---|
| | 5 | 6 | 6 | | 2 |

Note: Do not overlap the lugs!

| DN | H(mm) |
|---|---|
| 63 | 3.0~3.3 |
| 80 | 3.0~3.3 |
| 100 | 3.0~3.3 |
| 150 | 3.0~3.3 |
| 200 | 3.0~3.3 |



### Sizing Chart for Quick Drops

| Drill | Drill Holder | DN(MM) | Quick Drops (PN) | | | | |
|---|---|---|---|---|---|---|---|
| 301 35 0005 01 | 301 35 0008 06 | Φ16 | 302 10 0201 04 | 302 10 0202 03 | 302 11 0200 03 | 302 11 0401 03 | |
| 301 35 0005 01 | 301 35 0008 07 | Φ22 | 302 10 0401 04 | 302 10 0402 04 | 302 11 0400 03 | 302 10 0602 01 | 302 10 0701 01 | 302 10 0702 01 |
| | | | 302 10 0601 01 | 302 10 0602 01 | 302 10 0601 01 | 302 10 1002 01 | 302 10 1102 01 | |
| | | | 302 10 0801 01 | 302 10 0802 01 | 302 10 1001 01 | 302 11 0801 01 | 302 11 0700 01 | 302 11 0701 01 |
| 301 35 0005 01 | 301 35 0008 03 | Φ26 | 302 11 0500 01 | 302 11 0501 01 | 302 11 0800 01 | | | |
| | | | 302 11 0800 01 | 302 11 1000 01 | | | | |
| 301 35 0005 02 | 301 35 0008 04 | Φ38 | 302 10 0804 01 | | | | | |
| 301 35 0005 02 | 301 35 0008 05 | Φ51 | 302 10 1004 01 | 302 10 1005 01 | 302 10 1104 01 | 302 10 1105 01 | | |

- The following table is based on a closed-loop pipe system.
- Working pressure is 8bar and pressure drop is 0.4bar, flow speed not taken into account.

| Flow | Length | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| N m3/h | 50M | 100M | 150M | 300M | 500M | 750M | 1000M | 1300M | 1600M | 2000M |
| 10 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 25 | 25 | 25 |
| 30 | 20 | 20 | 20 | 25 | 25 | 25 | 25 | 25 | 25 | 40 |
| 50 | 20 | 25 | 25 | 25 | 25 | 25 | 40 | 40 | 40 | 40 |
| 70 | 25 | 25 | 25 | 25 | 40 | 40 | 40 | 40 | 40 | 40 |
| 100 | 25 | 25 | 25 | 40 | 40 | 40 | 40 | 40 | 40 | 50 |
| 150 | 25 | 40 | 40 | 40 | 40 | 40 | 40 | 50 | 50 | 50 |
| 250 | 40 | 40 | 40 | 40 | 50 | 50 | 50 | 50 | 50 | 50 |
| 350 | 40 | 40 | 40 | 50 | 50 | 50 | 63 | 63 | 63 | 63 |
| 500 | 40 | 40 | 50 | 50 | 63 | 63 | 63 | 63 | 63 | 63 |
| 750 | 40 | 50 | 50 | 50 | 63 | 63 | 63 | 80 | 80 | 80 |
| 1000 | 50 | 50 | 63 | 63 | 63 | 80 | 80 | 100 | 100 | 100 |
| 1250 | 50 | 50 | 63 | 63 | 63 | 100 | 100 | 100 | 100 | 100 |
| 1500 | 50 | 63 | 63 | 80 | 80 | 100 | 100 | 100 | 100 | 100 |
| 1750 | 63 | 63 | 80 | 80 | 80 | 100 | 100 | 100 | 100 | 150 |
| 2000 | 63 | 80 | 80 | 80 | 100 | 100 | 100 | 100 | 150 | 150 |
| 2500 | 63 | 80 | 80 | 80 | 100 | 100 | 100 | 150 | 150 | 150 |
| 3000 | 80 | 80 | 80 | 100 | 100 | 150 | 150 | 150 | 150 | 150 |
| 3500 | 80 | 80 | 100 | 100 | 150 | 150 | 150 | 150 | 150 | 150 |
| 4000 | 80 | 100 | 100 | 100 | 150 | 150 | 150 | 150 | 150 | 150 |
| 4500 | 80 | 100 | 100 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| 5000 | 80 | 100 | 100 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| 5500 | 100 | 100 | 100 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| 6000 | 100 | 100 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| 6500 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 200 |
| 7200 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 200 | 200 | 200 |
| 8000 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| 8500 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| 10000 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| 12000 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200* | 200* | 200* |

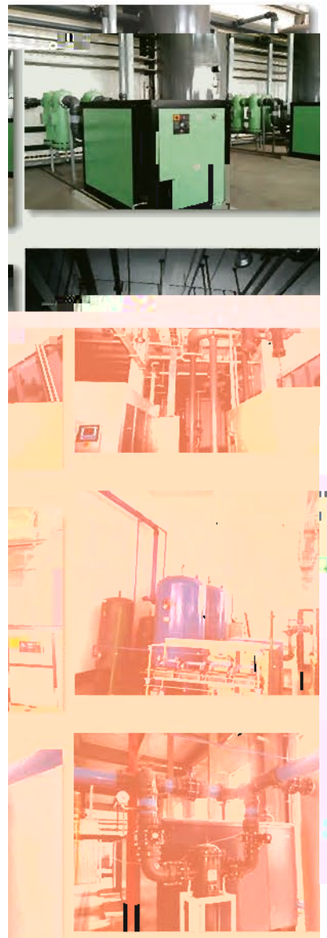
## Technical Specifications

- Max. working pressure: 15bar (-20℃~ +80℃),16bar (-20℃~ +45℃)
  Max. working pressure for DN200 is 13bar.
- Vacuum: 1mbar (absolute pressure).
- Working temperature: -20℃ ~ +80℃.
- Suitable fluids: compressed air, oil-free or lubricated, wet, vacuum, inert gases.
- Fireproof. and suitable for outdoor applications.

## Qualification & Standards

2014/68/EU, ASME B31.1, TUV, GB/T4437.1-2000, EN755-8, TS, UI94, ISO 8573-1

- We are committed to provide superior products and service.
- R&D is a continuous process linked to real-world conditions & market feedback.
- Always customer oriented, from design production to sales and service.



## we are at your SERVICE