



## Advanced Compressed Air System Condition Monitoring

Take a new look at your compressed air system with Transair Condition Monitoring sensors. Partner's Transair Condition Monitoring sensors and cloud-based software. With Transair Condition Monitoring, you can monitor your system in real-time and from anywhere, preventing costly downtime and identifying improvement areas.

Transair Condition Monitoring offers a wide range of wireless sensors that provide consistent and accurate readings for Pressure, Temperature, Humidity, Power, and Flow. A 20mA Transair is available for unique system measurements. Each sensor wireless reports the data to a cloud-based software platform, allowing for easy access anytime, anywhere.

- Markets:**
- Automotive Assembly
  - Compressed Air
  - Vacuum
  - Inert Gas
- Applications:**
- Food & Beverage
  - Pharmaceuticals
  - Industrial Plants
  - Aerospace
  - And many more!
- Features/Benefits:**
- Cloud-based software for remote access to the data
  - Customizable system alerts sent via text and/or email
  - System generated trend-charts for easy data analysis
  - Wireless transmission of data
  - 3 year battery life dependent on frequency of data being sent



# Starter Kit

The Transair® Condition Monitoring Starter Kit provides an out-of-the-box solution to begin measuring and recording crucial data immediately.

### Only three steps are required:

1. Activate your subscription & login to the cloud
2. Supply power to collection server and install sensor batteries
3. Install the sensors

Set alerts to notify responsible parties of an event, view actionable data in graphical form, and export data for further analysis.

The Transair® Condition Monitoring Starter Kit includes:

- (5) 150 psi Pressure Sensors**  
Pressure Sensors are designed for accurate monitoring with the most commonly used pressures in the industry.
- (1) Humidity Sensor**  
Humidity Sensors are designed for accurate tracking of relative humidity, dew point, and temperature.
- (1) Signal Repeater**  
The Repeater is used as a network range extender for all sensors connected to mCard PRN, and supports up to 500 sensors.
- (1) Cellular Collection Server**  
The Collection Server is the control center of the system which receives the data from the sensors and transmits it to SCOUT Cloud.



#### Installation Instructions

For instructions on how to install Transair® Condition Monitoring sensors visit: [solutions.parker.com/TCM\\_Instructions](https://solutions.parker.com/TCM_Instructions)



#### Cloud Access

Open your confirmation email. (Sent when the order was processed)

Click the link to setup your password and complete activation

To login go to [parker-scout.com](https://parker-scout.com)



ENGINEERING YOUR SUCCESS.



## Transair: Advanced Pipe Systems

Quick Reference Guide | February 2019



## Stainless Steel Drops

Used for compressed air or vacuum drops in harsh environments where aggressive cleaning chemicals are used. Stainless steel drops can be connected to Transair aluminum pipe. Transair stainless steel products are FDA-CR121 compliant which permits permanent food contact.

#### Technical Specifications:

- Pipe Diameter: 22mm
- Material: 316L Stainless Steel
- Seal Material: FKM
- Pressure: 0 to 145 PSI (0 to 10 bar)
- Temperature -4° to 248° F (-20° to +120° C)
- Vacuum: 29.6" Hg (10 mbar)

#### Features / Benefits:

- Full Bore Design
- Push to connect technology
- Removable and Reusable
- Modular Design
- Extensive Chemical Compatibility

These drops can be connected to quick assembly brackets of Transair® aluminum range and to quick assembly brackets of Transair® stainless steel range.

#### Instructions for Assembly and Disassembly of a Stainless Steel Drop

**Assembly:** simply push the pipe into the fitting.



**Disassembly 1:** Manually unscrew the nut and slide the nut along the pipe.



**Disassembly 2:** Put the red dismounting ring on the pipe and re-screw the nut on the fitting.



**Disassembly 3:** Pull the pipe from the fitting.



**Disassembly 4:** Manually unscrew the nut and remove the red dismounting ring.



**Disassembly 5:** Re-screw the nut on the fitting without the red ring; it is ready for assembly.



TRANSAIR® PART NUMBERS	DESCRIPTION
TF16 N7 00	3/4" (22MM) 316L STAINLESS STEEL PIPE (LENGTH: 20")
RF06 N7 02	3/4" (22MM) 316L STAINLESS STEEL UNION CONNECTOR W/ FKM SEAL
RF02 N7 00	3/4" (22MM) 316L STAINLESS STEEL 90° BENT PIPE ELBOW
RF02 N7 02	3/4" (22MM) 316L STAINLESS STEEL 90° ELBOW W/ FKM SEAL
RF04 06N00	3/4" (22MM) 316L STAINLESS STEEL FEMALE THREADED 3/4" NPT TEE W/ FKM SEAL
RF05 N7N06	3/4" (22MM) 316L STAINLESS STEEL MALE THREADED 3/4" NPT ADAPTER
RF36 06N04	3/4" (22MM) 316L STAINLESS STEEL 3 PORT 3/4" NPT WALL BRACKET (PLUGS NOT INCLUDED)
EF27 00N04	3/4" (22MM) 316L STAINLESS STEEL NPT PLUG W/ FKM SEAL
VP502SS-12	3/4" (22MM) 316L STAINLESS STEEL 3/4" NPT FEMALE TO FEMALE LOCKABLE BALL VALVE
EX01 N7 01	3/4" (22MM) STAINLESS STEEL FIXING CLIP
EW11 N7 00	3/4" (22MM) DISMOUNTING RING

**North American Divisions**  
Distribution Service Centers

**Buena Park, CA**  
phone 714 994 1183 fax 714 994 1183

**Conyers, GA**  
phone 770 929 0330 fax 770 929 0330

**Louisville, KY**  
phone 502 937 1322 fax 502 937 1322

**Portland, OR**  
phone 503 283 1020 fax 503 283 2201

**Toledo, OH**  
phone 419 878 7000 fax 419 878 7001

**Canada**  
(FCC Kit Operations)  
phone 905 893 3000 fax 905 878 1958

**Mexico**  
Toluca, MEX  
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**Tube Fittings Division**  
Columbus, OH  
phone 614 279 7070 fax 614 279 7685

**Quick Coupling Division**  
Minneapolis, MN  
phone 763 544 7781 fax 763 544 3418

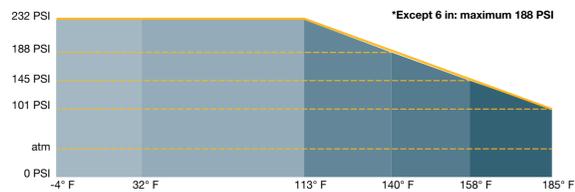
**Worldwide Availability:**  
Parker operates Fluid Connectors and Sales Offices throughout North America, South America, Europe and Asia-Pacific.

**For information, call toll free... (1-800-272-7337)**

## Parker Fluid Connectors Group North American Divisions & Distribution Service Centers

#### Working Pressure and Temperature

The maximum working pressure of the Transair® system versus the operating temperature can be seen in the diagram below.



#### Sizing Chart

Select the Transair® diameter for your application based on required flow against pressure drop. Estimated values: Closed loop system at 100 PSI with 5% pressure drop.

Flow Rate SCFM	Main Ring Length (ft)						Compressor hp
	500	1000	2000	3000	4000	5000	
10	1/2"	1/2"	1/2"	1"	1"	1"	<15
25	1"	1"	1"	1"	1"	1"	
50	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	
75	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	
100	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	15 to 40
150	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	
250	1 1/2"	1 1/2"	2"	2"	2 1/2"	2 1/2"	
350	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	41 to 125
500	2 1/2"	2 1/2"	2 1/2"	3"	3"	3"	
750	2 1/2"	2 1/2"	3"	3"	4"	4"	
1000	3"	3"	3"	4"	4"	4"	126 to 250
1250	3"	3"	4"	4"	4"	4"	
1500	4"	4"	4"	4"	4"	4"	
1750	4"	4"	4"	4"	4"	4"	125 to 500
2000	4"	4"	4"	4"	4"	4"	
2250	4"	4"	4"	4"	4"	4"	
2500	4"	4"	4"	4"	4"	4"	
2750	4"	4"	4"	4"	4"	4"	
3000	4"	4"	4"	4"	4"	4"	501 to 1000
3250	4"	4"	4"	4"	4"	4"	
3500	4"	4"	4"	4"	4"	4"	
4000	4"	4"	4"	4"	4"	4"	
4500	4"	4"	4"	4"	4"	4"	
5000	4"	4"	4"	4"	4"	4"	1001 to 1400
5500	4"	4"	4"	4"	4"	4"	

**Example**

- Main system length (ring main): 1000 ft
- Compressor power: 40 hp
- Required flow rate: 150 SCFM
- Working pressure: 100 PSI

Result: The most suitable Transair® diameter is: 1 1/2".



**Transair Pipe Sizes**

Transair Pipe Size	ISO 6030	ASME	TUV Rheinland	DNV GL
2" (50 mm)	1 1/2" (40 mm)	1 1/2" (40 mm)	1 1/2" (40 mm)	1 1/2" (40 mm)
1 1/2" (38 mm)	1 1/2" (40 mm)	1 1/2" (40 mm)	1 1/2" (40 mm)	1 1/2" (40 mm)
1" (25 mm)	1 1/2" (40 mm)	1 1/2" (40 mm)	1 1/2" (40 mm)	1 1/2" (40 mm)
3/4" (19 mm)	1 1/2" (40 mm)	1 1/2" (40 mm)	1 1/2" (40 mm)	1 1/2" (40 mm)

**Materials:**

- Flawless reinforced polyamide
- Plated brass
- Stainless steel
- Powder-coated aluminum
- Nitrile seals

**Materials:**

- Ultraviolet (UV)
- Thermal variations
- Compressor oil carry over
- 1/2" - 6" pipe sizes
- Full bore design
- 10 year manufacturer leak-free guarantee
- No corrosion
- Modular design
- Removable and reusable
- Immediate pressurization
- Push-to-connect technology
- Lower installation costs
- Energy efficient

**Resistance to:**

- Max working pressure for 6" (168mm) is 188 PSI (Vacuum Level: 98.7 % (29.6" Hg))
- rubber, wire-reinforced, thermoplastic, hybrid and sizes and materials including
- Available in a wide variety of +15° F (-20° to 45° C)
- 232 psi (16 bar) from -4° to +140° F (-20° to +60° C)
- 188 psi (13 bar) from -4° to +185° F (-20° to +85° C)
- 100 psi (7 bar) from -4° to +185° F (-20° to +85° C)

**Hose, Tubing and Bundles:**

- thermoplastic.
- Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and sizes and materials including
- Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon and WIKILITE, OH

**Hose Products Division:**

- phone 419 878 7000 fax 419 878 7001
- phone 419 878 7001 fax 419 878 7001
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**Quote Support:**

- phone 503 283 1020 fax 503 283 2201

**Customer Support:**

- phone 502 937 1322 fax 502 937 1322

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**Partex Division:**

- phone 330 296 8433 fax 330 296 8433

**Quick Coupling Division:**

- phone 763 544 7781 fax 763 544 3418

**Tube Fittings Division:**

- phone 614 279 7070 fax 614 279 7685

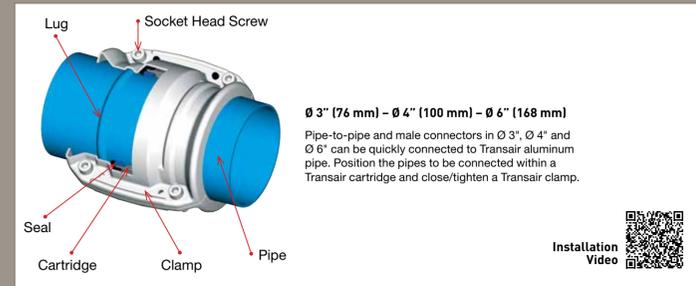
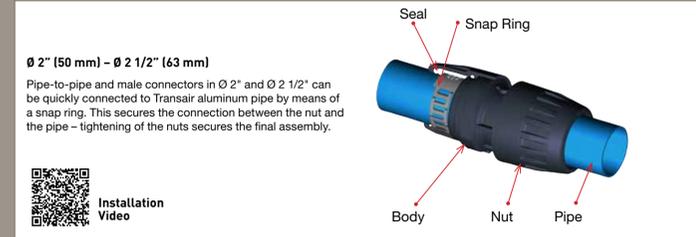
**Worldwide Availability:**

- South America, Europe and Asia-Pacific.

**For information, call toll free... (1-800-272-7337)**



## Transair Technology



recyclable. Transair pipe and fittings are guaranteed silicone free.

#### Transair's Additional Benefits Include:

Transair is a fast, flexible and easy to modify aluminum pipe system for compressed air applications. Quick connections eliminate the need to thread or solder pipe. The lightweight aluminum pipe is easy to handle and save to work with on elevated platforms. Transair offers significant savings on installation, maintenance and operating costs, making it the most cost effective and efficient pipe system for compressed air.

**Available in:**

- Compressed Air (dry, wet, lubricated)
- Vacuum
- Inert gases

**Maximum Working Pressure:**

- 100 psi (7 bar) from -4° to +185° F (-20° to +85° C)
- 188 psi (13 bar) from -4° to +140° F (-20° to +60° C)
- 232 psi (16 bar) from -4° to +15° F (-20° to 45° C)

**Resistance to:**

- Max working pressure for 6" (168mm) is 188 PSI (Vacuum Level: 98.7 % (29.6" Hg))
- rubber, wire-reinforced, thermoplastic, hybrid and sizes and materials including
- Available in a wide variety of +15° F (-20° to 45° C)

**Fittings:**

- Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon and thermoplastic.

**Hose, Tubing and Bundles:**

- thermoplastic.
- Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and sizes and materials including

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**Tube Fittings Division:**

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**Worldwide Availability:**

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# Rigid Aluminum Pipe

PART NO.	OD (IN)	L (FT)	COLOR
1013A17 04 00	1/2	9	BLUE
1014A17 04 00	1/2	15	BLUE
1013A25 00 00	1	9	BLUE
1016A25 04 00	1	20	BLUE
1013A40 04 00	1-1/2	9	BLUE
1016A40 04 00	1-1/2	20	BLUE
1013A17 06 00	1/2	9	GRAY
1016A25 06 00	1	20	GRAY
1016A40 06 00	1-1/2	20	GRAY
1014A17 02 00	1/2	15	GREEN
1016A25 02 00	1	20	GREEN
1016A40 02 00	1-1/2	20	GREEN
1013A50 04 00	2	9	BLUE
1016A50 04 00	2	20	BLUE
1016A63 04 00	2-1/2	9	BLUE
1013A63 04 00	2-1/2	20	BLUE
1016A50 06 00	2	20	GRAY
1016A63 06 00	2-1/2	20	GRAY
1016A50 02 00	2	20	GREEN
1016A63 02 00	2-1/2	20	GREEN
TA16 L1 04	3	20	BLUE
TA16 L3 04	4	20	BLUE
TA16 L1 06	3	20	GRAY
TA16 L3 06	4	20	GRAY
TA16 L1 02	3	20	GREEN
TA16 L3 02	4	20	GREEN
TA16 L8 04	6	20	BLUE
TA16 L8 06	6	20	GRAY
TA16 L8 02	6	20	GREEN

# Pipe-to-Pipe and Threaded Connectors

## Union Connector

PART NO.	OD (IN)	NPT (IN)
6606 17 00	1/2	1/2
6606 25 00	1	3/4
6606 40 00	1-1/2	1
6676 25 00*	1	3/4
6676 40 00*	1-1/2	1
6606 50 00	2	1 1/2
6606 63 00	2-1/2	1 1/2
6606 80 00*	2	1 1/2
6676 63 00*	2-1/2	1 1/2
RR01 L1 00	3	3
RR01 L3 00	4	4
RR01 L8 00	6	6

\* VENTED

## Replacement Snap Ring

PART NO.	OD (IN)
6650 00 00 16	2
6650 00 00 04	2-1/2

## Cartridge (spare)

PART NO.	OD (IN)
RR00 L1 00	3
RR00 L3 00	4
RP00 L8 00	6

## Bolts (Replacement Part)

PART NO.	OD (IN)
EW04 00 01	3 & 4

EW04 00 01 for use with RR01 L1 00 & RP01 L3 00 Union Connectors

## 45° Elbow Union Connector

PART NO.	OD (IN)
6612 25 00	1
6612 40 00	1 1/2
6612 50 00	2
6612 63 00	2 1/2
RX12 L1 00	3
RX12 L3 00	4
RX12 L8 00	6

## Male NPT Threaded 45° Elbow

PART NO.	OD (IN)	NPT (IN)
6619 25 22	1/2	1/2
6619 25 28	1	3/4
6619 25 35	1	1
6619 40 35	1 1/2	1
6619 40 43	1 1/2	1 1/4
6619 40 50	1 1/2	1 1/2
6619 40 44	1 1/2	2
6619 50 50	2	1 1/2
6619 50 44	2	2
6619 63 44	2 1/2	2

## 90° Elbow

PART NO.	OD (IN)
6602 17 00	1/2
6602 25 00	1
6602 40 00	1 1/2
6602 50 00	2
6602 63 00	2 1/2
RX02 L1 00	3
RX02 L3 00	4
RA02 L8 00	6

## Male NPT Threaded 90° Elbow

PART NO.	OD (IN)	NPT (IN)
6609 17 14	1/2	1/4
6609 17 22	1/2	1/2
6609 25 22	1	1/2
6609 25 28	1	3/4
6609 25 35	1	1
6609 40 35	1 1/2	1
6609 40 43	1 1/2	1 1/4
6609 40 50	1 1/2	1 1/2
6609 40 44	1 1/2	2
6609 50 50	2	1 1/2
6609 50 44	2	2
6609 63 41	2 1/2	2 1/2
6609 63 46	2 1/2	2 1/2

## Male NPT Threaded Connector

PART NO.	OD (IN)	NPT (IN)
6605 17 14	1/2	1/4
6605 17 22	1/2	1/2
6605 25 22	1	1/2
6605 25 28	1	3/4
6605 25 35	1	1
6605 40 35	1 1/2	1
6605 40 43	1 1/2	1 1/4
6605 40 50	1 1/2	1 1/2
6605 40 44	1 1/2	2
6605 50 50	2	1 1/2
6605 50 44	2	2
6605 63 44	2 1/2	2
6605 63 41	2 1/2	2 1/2
6605 63 46	2 1/2	3

## Male NPT Stud Nut

PART NO.	OD (IN)	NPT (IN)
6611 17 22	1/2	1/2
6611 25 22	1	1/2
6611 25 28	1	3/4
6611 25 35	1	1
6611 40 35	1 1/2	1
6611 40 43	1 1/2	1 1/4
6611 40 50	1 1/2	1 1/2
6611 40 44	1 1/2	2
6611 50 44	2	2
6611 50 50	2	1 1/2
6611 63 44	2 1/2	2
6611 63 41	2 1/2	2 1/2

## Reducing Tee

PART NO.	OD1 (IN)	OD2 (IN)
6604 50 25	2	1
6604 50 40	2	1-1/2
6604 63 40	2-1/2	1-1/2
6604 63 50	2-1/2	2
RX24 L1 40	3	1-1/2
RX24 L1 50	3	2
RX24 L1 63	3	2-1/2
RX24 L3 40	4	1-1/2
RX24 L3 50	4	2
RX24 L3 63	4	2-1/2
RX24 L3 40	4	3
RX24 L3 50	4	3
RA04 L8 L3	6	4
RA04 L8 L1	6	3
RA04 L8 63	6	2-1/2

## 1 Flanged Tee

PART NO.	OD1 (IN)	OD2 (IN)
RA44 L1 00 46	3	3
RA44 L3 00 46	4	4
RA44 L8 00 46	6	6

ANSI Standard Tee

## 3 Flanged Cross

PART NO.	OD (IN)	DN (IN)
RA07 L1 03 46	3	3
RA07 L3 03 46	4	4
RA07 L8 03 46	6	6

ANSI Standard Tee

## Expanding Tee

PART NO.	OD1 (IN)	OD2 (IN)
RA04 63 L1	2 1/2	3
RA04 L1 L3	3	4
RA04 L3 L8	4	6

## Equal Y

PART NO.	OD (IN)
RA26 63 00	2 1/2
RA26 L1 00	3
RA26 L3 00	4
RA26 L8 00	6

## Reducing Y

PART NO.	OD1 (IN)	OD2 (IN)
RA26 L1 40	3	1 1/2
RA26 L1 50	3	2
RA26 L3 63	4	2 1/2
RA26 L3 L1	4	3
RA26 L8 L3	6	4
RA26 L8 L1	6	3

## Female NPT Threaded Tee

PART NO.	OD (IN)
RX20 L1N04	3
RX20 L3N04	4

Use two connectors (RR01) to connect threaded tees (RX20) to Transair® pipe.

## Equal Cross

PART NO.	OD (IN)
RA07 40 00	1 1/2
RA07 50 00	2
RA07 63 00	2 1/2
RA07 L8 04	3
RA07 L1 00	3
RA07 L3 00	4
RA07 L8 00	6

## Plug-In Reducer

PART NO.	OD1 (IN)	OD2 (IN)
6666 17 25	1/2	1
6666 25 40	1	1-1/2
6666 25 50	1	2
6666 40 63	1-1/2	2-1/2
RX24 L1 40	1-1/2	2
6666 50 63	2	2-1/2
RX64 L1 50	3	2
RX24 L1 63	3	2-1/2
RX24 L3 40	4	1-1/2
RX24 L3 50	4	2
RX24 L3 63	4	2-1/2
RX66 L3 L1	4	3
RX66 L3 L3	4	3
RA66 L8 L3	6	4
RA66 L8 L1	6	3

## End Cap

PART NO.	OD (IN)
6625 17 00*	1/2
6625 25 00*	1
6625 40 00*	1 1/2
6625 50 00*	2
6625 63 00*	2 1/2
RX25 L1 00	3
RX25 L3 00	4
RA25 L8 00	6

\* Vented

## End Cap with Plug

PART NO.	OD (IN)
RA25 L1 04	3
RA25 L3 04	4
RA25 L8 04	6

End cap Plug is 1/2" BSP

## Male NPT Threaded Connector

PART NO.	OD (IN)	NPT (IN)
6615 25 22	1	1/2
6615 25 28	1	3/4
6615 25 35	1	1
6615 40 43	1-1/2	1-1/4
6615 40 50	1-1/2	1-1/2
6615 50 50	2	1-1/2
6615 50 44	2	2

## Male NPT Adapter

PART NO.	OD (IN)	NPT (IN)
6621 17 22	1/2	1/2
6621 25 22	1	1/2
6621 25 28	1	3/4
6621 25 35	1	1
6621 40 43	1 1/2	1 1/4
6621 40 50	1 1/2	1 1/2
RR21 L1N20	3	2 1/2
RR21 L1N24	3	3

## Manifolds

PART NO.	OD (IN)	NPT (IN)	PORTS
6651 25 12 04	1	4	4
6651 40 12 04	1 1/2	4	4
6653 25 22 06	1	1/2	6
6653 40 22 06	1 1/2	1/2	6

## Flange

PART NO.	ANSI	OD (IN)
RA31 L8 00	ANSI	6
RA30 63 00	DIN	2-1/2
RA31 63 00	ANSI	2-1/2
RA30 L1 00	DIN	3
RA31 L1 00	ANSI	3
RA30 L3 00	DIN	4
RA31 L3 00	ANSI	4
RA31 L8 K2	DIN	6
RA33 L1N24	ANSI	3
RA33 L3N24	ANSI	4

## Flange Gasket

PART NO.	OD (IN)
EW05 63 00	2 1/2
EW05 L1 00	3
EW05 L3 00	4
EW05 L8 00	6

## Flange Bolt Kit

PART NO.	OD (IN)
EW06 00 10	2 1/2, 3, 4
EW06 00 11	3
EW06 00 12	6
EW06 00 01	3, 4

EW06 00 10 for use with 63mm, 76mm & 101mm flange to flange connections  
 EW06 00 11 for use with VRO1 & VRO2 valve to flange connections  
 EW06 00 12 for use with 168mm flange to flange connections  
 EW06 00 01 for use with 76mm & 101mm flange to flange connections (bag of 8)

# Drop Brackets

## Simple Reducing Bracket

PART NO.	OD (IN)
RA69 25 17	1
RA69 40 25	1 1/2
RA69 50 25	2
RA69 63 25	2 1/2

To drill Transair® pipe, use drilling tools 6698 02 01 and 6698 02 02.

## Simple Reducing Bracket - Threaded Female NPT

PART NO.	OD (IN)	NPT (IN)
RA68 25N04	1	1/2
RA68 40N04	1 1/2	1/2
RA68 50N04	2	1/2
RA68 50N08	2	1
RA68 63N08	2 1/2	1

Supplied with brass plug. To drill Transair® pipe, use drilling tools 6698 02 01 and 6698 02 02.

## Saddle Reducing Bracket

PART NO.	OD (IN)	NPT (IN)
RR63 L8N12	6	1 1/2
RR63 L8N16	6	2