PAV-14 & 16 - Rotary Airlock

HEAVY DUTY SERIES ROTARY AIRLOCK VALVE

AVAILABLE FEATURES

- Air purged seals
- Food grade Teflon seals
- Food grade white epoxy paint
- 304 or 316 stainless steel body & rotor
- Hastelloy body and rotor
- Shear pins / Zero speed switch
- High temp bearings & seals for operation to 1100° F
- Wear & corrosion resistant coatings
- Inlet baffle / Inlet v-plow for shear protection
- Discharge adapter / Finger guards
- Bolt on or flexible tips
- Vented pockets / Vented housing
- Die cut flange gaskets
- Manual hand crank or pneumatic maintenance gates available
- Drive: TEFC, or TEXP / Various voltages available

PRATER 14” & 16” ROTARY AIRLOCKS

- Constructed of high strength cast iron or stainless steel body & end plates
- 8 blade, mild steel, open-end rotor with welded pocket bottoms
- Self-adjusting, maintenance-free packing gland assemblies
- Outboard mounted, maintenance-free bearings
- Universal flanges custom-drilled at no extra charge
- Complimentary temperature compensation
- End plates pre-drilled & tapped for optional shaft air purge
- Quick and easy end plate removal using included jack bolt holes
- Operating temperature up to 500° F with standard components
- Keyed shaft extension for most drive assemblies
- Premium, inverter duty, helical gear motor
- Standard models in stock

NFPA-69
MSHA
V-Plow
10-Bar
PSR11
CSA

praterindustries.com
**Housing:**
Material: Gray Cast Iron  
Thickness: 0.875" x 0.31" (22.2 x 7.9 mm)

**Flanges:**
Square Outline: Drilled  
Round or Square

**Bearings:**
Type: Ball Bearing  
Size: 2.688” / 68.3 mm  
Life Rating L-10: > 60,000 hours  
Outboard Mounted: Yes

**Shaft:**
Material: Mild or Stainless Steel  
Drive Stub Shaft D: 1.94” / 49.3 mm  
Packing Seal: Abrasion Resistant

**CAPACITY:**
**PAV-14**  
Theoretical: 1.475 cu. Ft. (41.77 L) / rev.  
Practical: 1.18 cu. Ft. (33.41 L) / rev.

**PAV-16**  
Theoretical: 2.3 cu. Ft. (65.13 L) / rev.  
Practical: 1.84 cu. Ft. (52.10 L) / rev.

**DRIVE INCLUDES:**
**PAV-14**  
2.0 Hp, 60Hz, 3 Ph  
230/460 V. Motor, Motor Base  
Gear Reducer, Chain Drive  
TEFC & OSHA Guard

**PAV-16**  
3.0 Hp, 60Hz, 3 Ph  
230/460 V. Motor, Motor Base  
Gear Reducer, Chain Drive  
TEFC & OSHA Guard

**APPROX. WEIGHT & DIMENSIONS:**
**PAV-14 - Airlock Only**  
Weight: 620 lbs / 281 kg  
Shipping Weight: 665 lbs / 302 kg

**PAV-16 - Airlock Only**  
Weight: 720 lbs / 327 kg  
Shipping Weight: 760 lbs / 345 kg

**PAV-14 - With Drive & Guard**  
Weight: 765 lbs / 347 kg  
Shipping Weight: 810 lbs / 368 kg

**PAV-16 - With Drive & Guard**  
Weight: 840 lbs / 381 kg  
Shipping Weight: 885 lbs / 402 kg

**Sound Level:**
< 75 db scale A

**Paint:**
Primer: Gray Chromate  
Finish: White, Urethane

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**MODEL**  | **DISPLACEMENT** | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** | **I** | **J** | **K** | **L** | **M** | **N** | **O** | **P** | **Q**  | **HOLE (QTY)** | **KEYWAY W X D** | **DRIVE SHAFT DIA.** | **FLANGE THK.** | **WEIGHT W/ DRIVE (LBS)**  
PAV-14 | 1.475 | 14 | 19 | 14 | 18 1/8 | 4 1/4 | 15 3/16 | 21 | 2 3/4 | 16 3/16 | 14 1/4 | 35 1/4 | 10 1/8 | 10 1/8 | 20 3/4 | 32 1/2 | 38 1/4 | 34 | 12 | 1/4 x 1/4  | 1 1/8  | 1/6  | 620 | 765  