KLAMPRESS SIZE 3
(2.0 METER) TYPE 85
SPARE PARTS PRICE LIST
W/DODGE BEARINGS

DESCRIPTION	PART #	QNTY RQRD	AVAILABILITY
UPPER BELT, 2.2M X 18.700M	028644	1	1-2 WEEKS
LOWER BELT, 2.2M X 16.400M	028645	1	1-2 WEEKS
RUBBER SEAL (100')	004488	100	ASH STOCK
SCRAPER BLADE	003057	2	ASH STOCK
HYDRAULIC SPIN-ON FILTER	037939	1	ASH STOCK
SPRAY SHOWER BRUSH	012309	2	ASH STOCK
ROLLER, BEARING	422001	2	1 WEEK
BEARING, NUP 2215, NON EXPANSION	422155	2	1 WEEK
BEARING SEAL 2 3/4"	040514	2	1 WEEK
BEARING SEAL 2 9/16"	040513	2	1 WEEK
ADAPTER SLEEVE	040522	2	1 WEEK
STEERING VALVE	016408	2	1 WEEK
TORSION SPRING	017038	2	1 WEEK
SAFETY SWITCH, RAMSEY	016968	1	ASH STOCK
CHICANE BLADES	006396	10	ASH STOCK
BELT MISALIGNMENT SWITCH	018565	1	ASH STOCK
BELT BREAKAGE SWITCH	039657	1	1 WEEK
STEERING PADDLE ASSEMBLY	012986	2	1 WEEK
SPRAY NOZZLE, 2.5MM MENASHA	022319	44	ASH STOCK

PARTS LISTED ARE MINIMUM RECOMMENDED. IF YOU FEEL YOU NEED OTHER PARTS ON HAND OR HAVE QUESTIONS REGARDING PARTS, PLEASE CONTACT THIS OFFICE AT **(800) 547-7273.**

*BELTS CAN USUALLY BE SUPPLIED IN 24-48 HOURS IN CASES OF EMERGENCY.

ASHBROOK KLAMPRESS®

BELT DATA SHEET

1.	**Fiber:**	**Polyester Monofilament**
2.	**Type:**	**8065**
3.	**Weave:**	**Mod. Satin**
4.	**Weight:**	**35.25 oz/sq.yd.**
5.	**Mesh Opening in Microns:**	**Warp-0** **Weft-350**
6.	**Tensile Strength (Warp):**	**>1560 pli**
7.	**Tensile Strength of Seam:**	**502.8 pli**
8.	**Safety Factor of Belt:**	**31 (@ 50 pli)**
9.	**Safety Factor of Seam:**	**10 (@ 50 pli)**
10.	**Belt Edge Coating:**	**Acetone Based Plastic Resin** **(Heat Sealed)**

FILTRATION

CANISTER, SPIN-ON FILTERS

3/8" thru 1-1/2" NPT

Spin-on Canister Filters

FEATURES

- ✔ **Easy Filter Replacement:** Line mounted filter with disposable spin-on canisters.
- ✔ **Universal Filter Head:** Filter heads are designed to accept both American and European canister threads.
- ✔ **Water Removal:** In addition to contaminate removable elements, both water and particulate removable canisters are available.

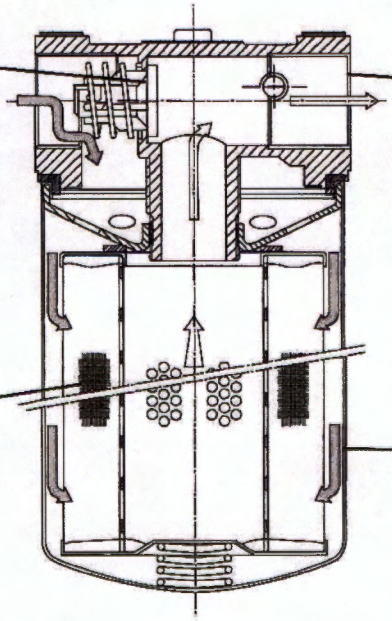
Specifications

Maximum Pressures	Filter Head	175 psi (12 bar) Minimum Burst with 25 psi By-pass Valve†
	Element	60 psi Differential Collapse
Temperature		-15° F to +230° F (Viscosities Permitting)
Recommended Fluids		Petroleum Based Fluids- ISO VG32-68, Phosphate Ester, Most Vegetable Oils, Water Based Fluids to 40% Water
Materials	Filter Head	Aluminum
	Filter Element	Absolute- Inorganic Microfiber Nominal- Resin Treated Paper

†CFE6 has 25 psi bypass in the canister element

BYPASS VALVE
In the head, a full-flow bypass valve can be mounted as an option; the bypass flow is designed in such a way that the contaminant is retained in the filter element during bypass conditions.

"LONG LIFE" FILTER ELEMENT
The filter elements are designed with a very large filter area giving a high dirt holding capacity.



STRONG CONSTRUCTION
The materials and the design ensure a superior resistance to fatigue even at working pressures up to 175 psi (12 bar).

EASY MAINTENANCE
The spin-on cartridge filter element allows a easy and quick replacement of the element itself.

FILTRATION

CANISTER, SPIN-ON FILTERS

HYVAIR

3/8" thru 1-1/2" NPT

ORDERING INFORMATION

HYVAIR CANISTER FILTER PART NUMBERING SYSTEM:

HEAD ONLY

CFH - 12 FP - 25 - Options

CFH- Canister Filter Head ~~CFHD- Canister Filter Head Double Element~~	

Code	Size
~~6~~	~~3/8"~~
12	3/4"
~~20~~	~~1-1/4"~~
~~24~~	~~1-1/2"~~

Code	Connection
FP	Female Pipe
~~F6~~	~~Female SAE~~

Bypass Pressure (psi)

ELEMENT ONLY

CFE - 12 - 10M NPE - 1 - Options

Canister Filter Element

Code	Size
~~6~~	~~3/8"~~
12	3/4"
~~20~~	~~1-1/4"~~

Code	Filtration
~~03M~~	~~3 Micron~~
10M	10 Micron
~~25M~~	~~25 Micron~~

Code	Element Type
AME	Absolute- Micro Fiber Element
~~NPE~~	~~Nominal- Paper Element~~

Length
1
2

(if req'd.)

ASSEMBLY

CFA - 12 FP - 25 - 10M NPE - 1 - Options

CFA- Canister Filter Assembly ~~CFAD- Canister Filter Assembly Double Element~~	

Code	Size
~~6~~	~~3/8"~~
12	3/4"
~~20~~	~~1-1/4"~~
~~24~~	~~1-1/2"~~

Code	Connection
FP	Female Pipe
~~FL~~	~~SAE Flange~~

Bypass Pressure (psi)

Code	Filtration
~~03M~~	~~3 Micron~~
10M	10 Micron
~~25M~~	~~25 Micron~~

Code	Element Type
AME	Absolute- Micro Fiber Element
~~NPE~~	~~Nominal- Paper Element~~

Length
1
2

(if req'd.)

ASSEMBLY

Visual Indicator	Model # HYV-1, 0-25 psi green/26-50 psi red, 1/8" npt center back mount gauge
Pressure Switch	Model # PS-NO-21, Normally Open- Preset @ 21 psi (increasing) Model # PS-NC-21, Normally Closed- Preset @ 21 psi (increasing) (220 VAC max., 0.5A- resistive, 0.25A- inductive, 100VA- switching power)
Water Removal	Add -WR Suffix to Element or Assembly Part Number, Water Capacity: CFE12-WR= 4.1oz max., CFE20-1-WR= 8.4oz max., CFE20-2-WR= 15.0oz max.

HYV-1 Filter Indicator Gauge

Flow Ratings/Common Models

Thread	Model Number (Head Only)	Filter Rating (microns) β > 75 Abs / β > 2 Nom.	Model Number (Element Only)	Flow* (ΔP= 5psi)
3/8" NPT	CFH-6FP†	10µ Nominal	CFE6-10MNPE	3.5
3/4" NPT	CFH-12FP-25	3µ Absolute	CFE12-03MAME	6
		10µ Absolute	CFE12-10MAME	10
		10µ Nominal	CFE12-10MNPE	12
		10µ Nom./ Water Removal	CFE12-10MNPE-WR	12
		25µ Nominal	CFE12-25MNPE	12
1-1/4" NPT	CFH-20FP-25	3µ Absolute	CFE20-03MAME-1	36
		10µ Absolute	CFE20-10MAME-1	50
		10µ Nominal	CFE20-10MNPE-1	44
		10µ Nom./ Water Removal	CFE20-10MNPE-1-WR	44
		3µ Absolute	CFE20-03MAME-2	46
		10µ Absolute	CFE20-10MAME-2	57
		10µ Nominal	CFE20-10MNPE-2	48
		10µ Nom./ Water Removal	CFE20-10MNPE-2-WR	48
#24 SAE Flange	CFHD-24FL-25 [Two elements required]	3µ Absolute	CFE20-03MAME-1	60
		10µ Absolute	CFE20-10MAME-1	72
		10µ Nominal	CFE20-10MNPE-1	65
		10µ Nom./ Water Removal	CFE20-10MNPE-1-WR	65
1-1/2" NPT	CFHD-24FP-25 [Two elements required]	3µ Absolute	CFE20-03MAME-2	71
		10µ Absolute	CFE20-10MAME-2	79
		10µ Nominal	CFE20-10MNPE-2	69
		10µ Nom./ Water Removal	CFE20-10MNPE-2-WR	69

*Element GPM with viscosity of 150 SUS, Specific Gravity of .88 (ISO 32 Oil at 100° F).

†Not available with by-pass/ CFE6 has 25 psi bypass in the canister element

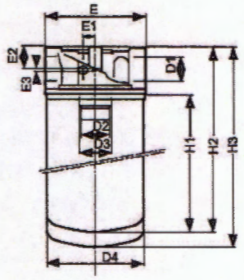
FILTRATION
CANISTER, SPIN-ON FILTERS

HYVAIR

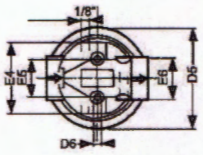
3/8" thru 1-1/2"

Dimensional Data

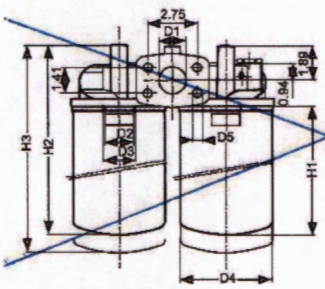
Canister Filter Assembly

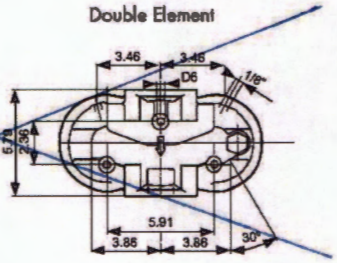


CFA- 06, 12, 20



CFAD- 24
Double Element

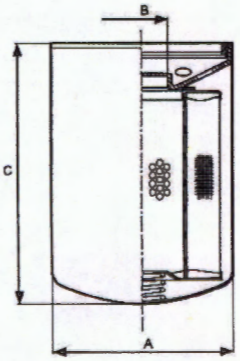




Model Number (Assy- Length)	D1	D2	D3 (Optional thd.)	D4	D5	D6	E	E5	H1	H2	H3	Weight (lbs.)
CFA-6FP	3/8" NPT	3/4"-16 UNF	None	3.0	3.05	1/4"-20 UNC	3.06	1.50	3.50	4.60	5.00	1.0
CFA-12FP	3/4" NPT	1"-12 UNF	None	3.78	3.78	1/4"-20 UNC	3.75	1.50	5.75	7.40	8.19	2.5
CFA-20FP-1	1-1/4" NPT	1-1/2"-16 UN	1-1/4" BSP	5.08	5.28	5/16"-18 UNC	5.25	1.97	6.93	9.49	10.67	3.2
CFA-20FP-2	1-1/4" NPT	1-1/2"-16 UN	1-1/4" BSP	5.08	N/A	5/16"-18 UNC	N/A	N/A	10.71	13.19	14.37	4.0
CFAD-24FL-1	#24 SAE FLG.†	1-1/2"-16 UN	1-1/4" BSP	5.08	N/A	3/8"-16 UNC	N/A	N/A	6.93	10.31	11.68	8.5
CFAD-24FL-2	#24 SAE FLG.†	1-1/2"-16 UN	1-1/4" BSP	5.08	N/A	3/8"-16 UNC	N/A	N/A	10.71	14.06	15.43	10.1
CFAD-24FP-1	1-1/2" NPT	1-1/2"-16 UN	1-1/4" BSP	5.08	N/A	3/8"-16 UNC	N/A	N/A	6.93	10.31	11.68	8.5
CFAD-24FP-2	1-1/2" NPT	1-1/2"-16 UN	1-1/4" BSP	5.08	1/2-13	N/A	N/A	N/A	10.71	14.06	15.43	10.1

†Code 61, 3000 PSI SAE Flange

Units: Inches



Canister Filter Elements

Model Number (Element- Length)	A	B	C	Nominal Filter Area (Sq. In.)	Absolute Filter Area (Sq. In.)
CFE-6	3.05	3/4"-16 UNF	3.50	75	N/A
CFE-12	3.80	1"-12 UNF	5.75	512	331
CFE-20-1	5.08	1-1/2"-16 UN	6.93	768	615
CFE-20-2	5.08	1-1/2"-16 UN	10.71	1364	1091

Units: Inches

INSTRUMENTATION/ ELECTRONICS

PRESSURE GAUGES

HYVAIR

General Hydraulic Service

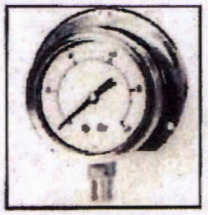
Stainless Steel Case, Brass Internals, Glycerin-Filled, 1/8" 1/4" & 1/2" NPT Ports, Vacuum to 15,000 PSI

BM-Bottom Ports
Crimped Case- Standard

TB- Twist on Bezel
(Optional)

LB- Lower Back Ports
U- Mounting Clamp

CB- Center Back Ports
P- Panel Mounting



W- Wall Mounting
TB- Twist on Bezel

Brass Pressure Snubber:
1/4" Female NPT
x 1/4" Male NPT

Model Number
602

Model 602: we recommend the "green striped" element (porosity 20) for most hydraulic applications.

316SS Pressure Snubber:
1/4" Female NPT
x #4" Male SAE

Model Number:
D-SN1-4FP-4MS

Steel Pressure Snubber:
1/4" Female NPT
x #6" Male SAE

Model Number:
S-SN1-4FP-6MS

Gauge Isolator:
Isolates and holds gauge's last pressure- no drain

#6 SAE	1/4" NPT
Model Number	Model Number
GI1-6FS	GI1-4FP

Ordering Information

HYV - 1K - 4 - 4 - N - BM - M - C - D - G

Pressure Range- Zero to: (psig)

-30 Vac	160	800	6k
15	200	1k	10k
30	300	1.5k	15k
60	400	2k	20k
100	500	3k	25k
	600	4k	30k
		5k	35k

Available Dry or Filled

Available Filled Only

Gauge Size- Dia.

1.5
2
2.5
4
6

Port Size

2- 1/8" MP
4- 1/4" MP
6- 1/2" MP
4F- 1/8" MP
4MS- 4MS
4A- 9/16-18 Aminco
6A- 3/4-16 Aminco

Mounting

N- None
P- Panel
U- U-Clamp
W- Wall

Port Location

BM- Bottom
CB- Center/ Back
LB- Lower/ Back

Series

O- Hyd. Service; Glyc. Filled, 304SS Case, Brass Internals
U- Air Service; Dry, Non-Filled, Steel Case, Brass Internals
M- Mfg Code- must be in place to continue options
H- same as series U but with black face & Hyvair logo

Example: 0-2000 psig, 2.5" Dia., 1/4" Male NPT, U- Clamp Mounting, Center Back Ports, OEM Series- Glycerin Filled

Case

B- Brass
C- 304SS
D- 316SS
P- Polyamid
S- Steel

Internals

B- Brass
C- 304SS
D- 316SS
M- Monel
S- Steel

Fill Fluid

D- Dry
F- Fillable
G- Glycerin
S- Silicon

Options (Listed Alphabetically)

A- Adapter Ring 4-1/2"
B- Bar/ Psi
C- Calibrated
G- Glass Lens
K- kPa/ Psi
K2- kg/sq-cm
MD- Mirror Dial w/ Knife Edge Pointer
MM- Min/ Max Pointers
MP- Max Press. Pointer
P- Plastic Lens
R- Red Stationary Pointers
RS- Restrictor Screw
SB- Solid Front/ Blow-Out Back
T- High Temp Service
Z- Special/ Write Out

Alfa Laval Ashbrook
Part No. 029482

HYVAIR
31341 Friendship Drive, Magnolia, TX 77355 • Tel.: 281-259-7768 Fax: 281-259-7249 • www.hyvair.com

Low Hydraulic Pressure Switch
Alfa Laval
Ashbrook Part No.
029872

OPERATING CHARACTERISTICS • ORDERING DATA

FIELD ADJUSTABLE PRESSURE SWITCH — All values given in P.S.I. (Gauge)

Range	Pressure Setting Range				Approx. Activation Value (Differential)	Proof Pressure	Catalog Number
	Decreasing		Increasing				
	Min.	Max.	Min.	Max.			
30" Hg (Vac)	1" Hg	28" Hg	6" Hg	30" Hg	1-6" Hg	30 psi	96221-BB1*
15	2.5	12.8	3	15	.5-2.2	1000	96211-BB1*
35	5	31	6	35	1.0-4.0	1000	96211-BB2*
60	8.5	44	10	50	1.5-6.0	1000	96211-BB3
125	22.5	112	25	125	2.5-13	1000	96211-BB4
250	70.8	220	80	250	10-30	1000	96211-BB5
500	118	440	130	500	20-60	1000	96211-BB6
600	190	450	250	600	60-150	7000	96201-BB1
1700	380	1450	430	1700	70-250	7000	96201-BB2
4400	1450	3900	1650	4400	200-500	7000	96201-BB3
7500	3850	6700	4000	7500	350-800	12000	96201-BB4
250	70.8	220	80	250	10-30	1000	96211-BB5-S0045
Approximate Shipping Weight: 0.95 lbs							

*S0045 SPECIAL SET @ 180 PSI DECREASING To install, hand tighten then apply 180 in-lbs torque max.

General Description

The 96201 series switch utilizes a sealed piston sensor. The 96211 and 96221 series switches use a diaphragm piston sensor. These switches offer field adjustable set points. The differential is fixed and varies with pressure setting.

Electrical Connections include free leads as standard with optional spade terminals, DIN type connector or 1/2" NPT conduit connector (male or female).

They are environmentally sealed and are resistant to shock and vibration. Designed to deliver millions of maintenance free cycles, the sealed piston and diaphragm piston designs are ideally suited for harsh environments.

WIRE CODE	PRESSURE		VACUUM	
Lead	Color	Pin	Color	Pin
Normally Closed	Blue	2	Red	3
Common	Purple	1	Purple	1
Normally Open	Red	3	Blue	2
Ground	Not used		Not used	

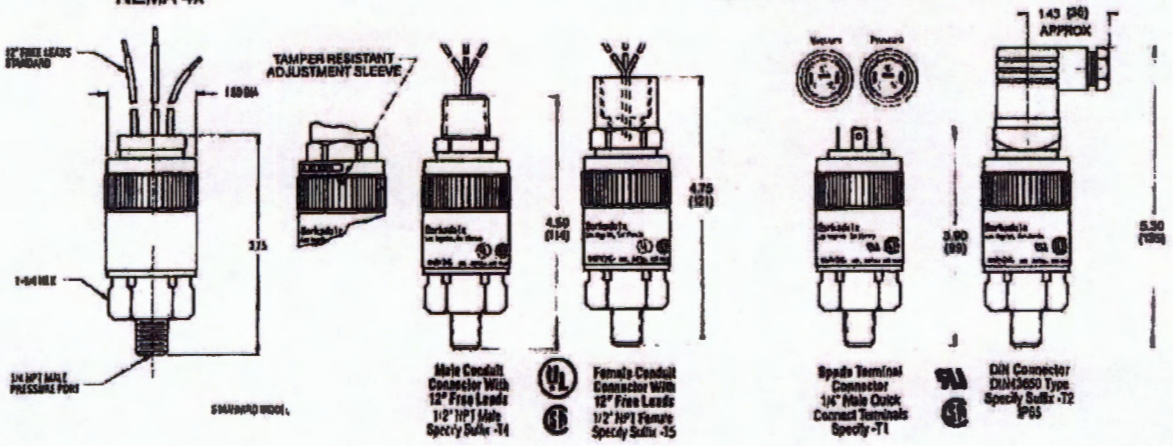
ELECTRICAL RATING			
Limit Switch Class	Voltage (Volts)	Maximum Continuous Current (Amps)	
		Resistive	Inductive
BB	125/250 VAC	5	5
CC	125/250 VAC	10	10

5 Amp @ 30 VDC maximum
All models incorporate Underwriters' Laboratories, Inc. listed and CSA approved single pole double throw snap-action switches

Detail Data

Electrical Connection	Free leads approximately 12" long
Pressure Connection	1/4" NPT male
Temperature Range	96201 series = -40° to 165°F 96211 series = -20° to 165°F (*0°F Min. as noted) 96221 series = 0° to 165°F
Accuracy	±2%
Wetted Materials	96201 series Body — Brass Seals — Buna N o'ring Piston — Stainless steel 96211 & 96221 series Body — Brass Diaphragm — Buna N
Housing	Open type plastic housing
Approvals/Listings	UL and CSA recognized
Optional Modifications	
Electrical	See diagrams below for optional conduit connections.
Wetted Material	Body: Stainless steel. To specify, add suffix -SS to catalog number
Diaphragm/Seal	Other compounds available. Consult factory
Process Connection	7/16-20 SAE type male straight threads with o'ring seal, add suffix -P1 1/4" BSP male straight threads with o'ring seal, add suffix -P3
Tamper Resistant Screw	Add prefix "T" to catalog number.
Adjustment Instructions	
Positive Pressure	Secure hex body with open end wrench. Hand turn adjustment sleeve clockwise to increase, counterclockwise to decrease set point
Vacuum Pressure	Secure hex body with open end wrench. Hand turn adjustment sleeve counterclockwise to increase, clockwise to decrease set point
Ordering Instructions	To ensure correct switch is furnished, always specify full catalog number (including required modifications), set point (increasing or decreasing) and service. Example: 96211-BB2-SS-T2 set at 15 psi increasing. Service, Dry Nitrogen.

NEMA 4x

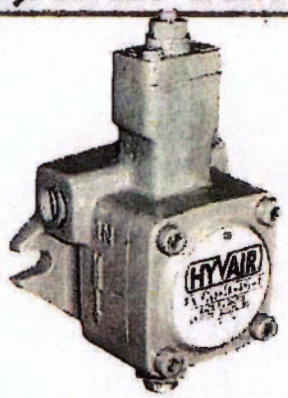


ALFA LAVAL ASHBROOK PART NO. 029866

VANE PUMPS

PCV3/~~5~~ SERIES- SAE A VANE PUMPS

HYVAIR



Series PCV3/ ~~PCV5~~ Vane Pumps

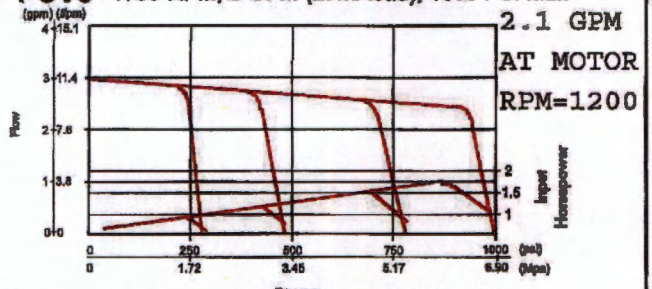
SAE A, 2-Bolt

Features

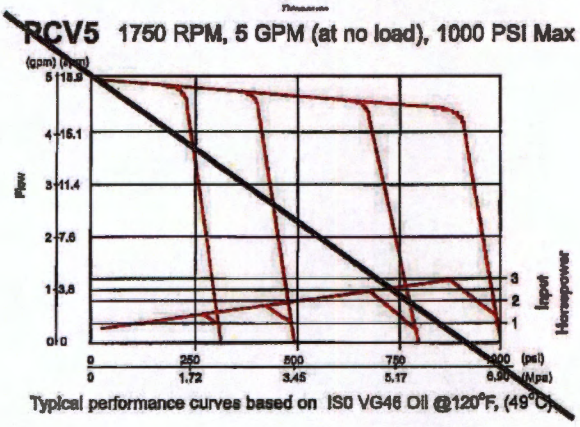
1. **Variable Volume, Pressure Compensated Design:** Reduces heat, noise and horsepower requirements. Pump maintains constant pressure while matching system flow demands.
2. **Simplified Circuit Design:** Direct spring operated compensator, no safety relief valve required.
3. **Quiet Operation:** Noise levels as low as 67 dBa.
4. **Compact and Simple Design:** Dependable operation- compensator not prone to contamination.
5. **Long Service Life:** Sturdy construction, precise machining ensures durability.
6. **Volume Adjustment Standard:** Pumps can be reduced as much as 50% of total maximum displacement.

Specifications

PCV3 1750 RPM, 3 GPM (at no load), 1000 PSI Max

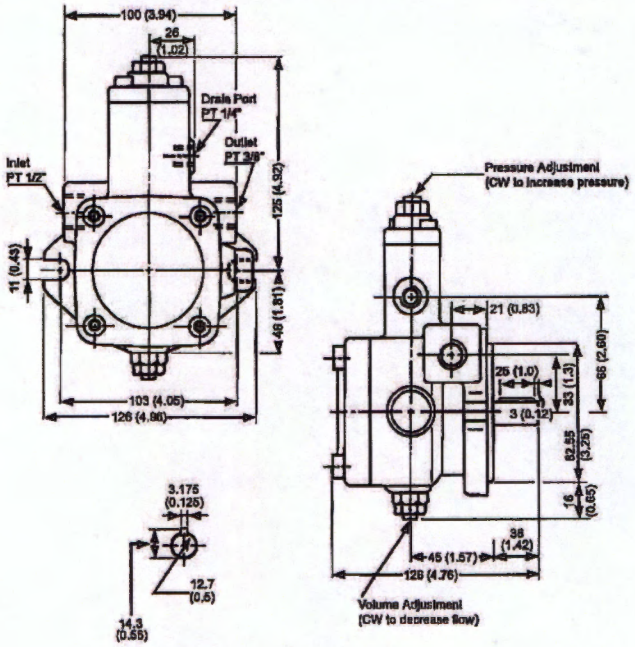


~~PCV5~~ 1750 RPM, 5 GPM (at no load), 1000 PSI Max



Typical performance curves based on ISO VG46 Oil @120°F, (49°C)

Dimensional Data



Units: mm/ (Inch)

Weight: PCV3: 9.9 lbs/ 4.5 kgs ~~PCV5: 10.6 lbs/ 4.8 kgs~~

Ordering Information

PCV3 - 1K - 2AK - 1 Note: Available right hand rotation (only)- viewed facing pump shaft

Size (GPM)
3
~~5~~

Code	Press Range
300	150-300 PSI
600	200-600 PSI
~~600~~	~~400-600 PSI~~
1K	400-1000 PSI

Mounting Style
2-Bolt, SAE A, 1/2" Dia. Keyed Shaft x 1.42" Long w/ 1/8" Key, Flow Adj. Std.

Series 1 Porting
1/2" inlet, 3/8" outlet, 1/4" case all female NPT

HYVAIR
31341 Friendship Drive, Magnolia, TX 77355 • Tel.: 281-259-7768 Fax: 281-259-7249 • www.hyvair.com

Techtop Motors

Nameplate and Performance Data

NAMEPLATE DATA		
	60 Hz.	50 Hz.
Horsepower	1	1
Frame Size	145T	
Speed, RPM	1150	940
Voltage	230/460V	190/380V
# Phase	3	
Full Load Amps	3.6/1.8	4.2/2.1
Power Factor	0.64	0.705
NEMA Nom. FL Efficiency	82.5	77
3/4 Load Efficiency	82	0
Service Factor	1.15	1
Duty	CONT / S1	
Full Load Temp Rise °C	0	0
Enclosure	TEFC	
Ambient Temperature	40°C	
Locked Rotor KVA Code	G	J
FL Amps. @ 208 V	3.98	N/A
Insulation Class	F	
NEMA Design	B	
Weight	51.37	
DE Bearing	6205ZZ	
NDE Bearing	6205ZZ	
Noise dbA	0	
Rotor Wk^2, Lb-Ft^2	0.0057	

Motor Model:	GR3-CI-TF-145TXZ-6-B-D-1-TB-RG

Number of leads Leads	9
Coil Resistance (Ω)	13.75
Pulls - Wire Diameter (MM)	0.71
Turns	86
Coil Span	1-6

Connection	YY/Y
Core Lng (MM)	95
Stator Slots	36
Rotor OD (MM)	93
Rotor Bars	27

Performance Load Values: * Performance values are at 60 Hz., 460V, Δ Connection

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency, %	Power Factor
0	0	0.94	-	-	0	-
25	0.25	1.091	0.35	1187	71.78	0.2979
50	0.5	1.193	0.62	1179	80.37	0.4867
75	0.75	1.354	0.91	1170	82.64	0.6256
100	1	1.8	1.21	1150	82.5	0.64
125	1.25	1.839	1.53	1149	81.95	0.7743

Performance Speed Torque: Performance values are at 60 Hz., 460V Connection

	Torque, Lb-Ft	% Full Load Torque	Speed, RPM	Current Amps.
Locked Rotor Torque	-	-	-	-
Pull-Up-Torque	13.77	3.02	-	6.054
Breakdown Torque	14.82	3.25	-	-
Full Load	4.56	-	1150	1.8

OPERATING INSTRUCTIONS

01 805 52 US

Gearmotors and Gear Reducers

GENERAL

These operating instructions are intended to help you install and operate the drive. For trouble free service, proper installation and operation are essential. Additionally, these instructions contain important recommendations on maintenance.

Before shipment every SEW-Eurodrive gear unit is tested, checked and properly packed. However, please inspect the drive immediately upon arrival for shortage or transit damage. Note the damage or shortage on the freight bill of lading and file a claim with the carrier. Also, notify SEW-Eurodrive of the shortage or damage.

LUBRICANTS

All gearmotors and gear reducers are supplied with the correct grade and quantity of lubricating oil for the specified mounting position. Exceptions include reducers shipped without input assemblies. The recommended lubricants are found on page 2.

LONG TERM STORAGE

If the drive is not installed immediately, it should be stored in a dry, protected area. If the drive is to be stored for an extended period of time and was not ordered from SEW for long term storage, contact your nearest SEW assembly plant for information on Long Term Storage, or request **Document #2115.**

Drives which are used for standby service should be stored as a sealed gearcase.

INSTALLATION OF COMPONENTS ON DRIVE SHAFTS

Do not hammer on the shafts. Hammering can cause brinelling of the reducer's bearings shortening the bearing life. We recommend heating the components to approximately 175°F (when possible) and sliding them on the shaft. This will reduce possible damage to the reducer's bearings. **Document #2116.**

Table 1. Standard Shaft Tolerances

Diameter (inch)	Solid Shaft Tolerances (inch)	Hollowshaft Tolerances (inch)
1.500 and smaller	+0.0000/-0.0005	+0.0005/-0.0000
Larger than 1.500	+0.000/-0.001	+0.001/-0.000

Shaft couplings should be properly aligned to prevent vibration, coupling wear, and premature failure of the shaft bearings.

To prevent the output shaft and bearings from being subjected to excessive loads, the maximum overhung load, as shown in SEW-Eurodrive catalogs, should not be exceeded. Please consult our engineering department if the load may exceed the recommended figure given or where there are combined radial and axial loads. In such cases, the exact operating conditions must be stated including speed, direction of rotation, position, magnitude and direction of the external radial and axial loads being applied.

SHAFT MOUNTED REDUCERS

SEW-Eurodrive recommends the use of a light coating of Never-Seez® (or equivalent) on the keyed output shaft. The Never-Seez® lubricant may prevent rusting and fretting corrosion between the reducer hollowshaft and the shaft of the driven machine. The lubricant will aid in shaft removal when necessary.

For additional information on shaft mounted reducers, drive shaft configuration and tolerances, refer to the SEW-Eurodrive Catalog or request **Documents #2201, 2202.**

INSTALLATION AND OPERATION

The drive installation site should be selected to ensure:

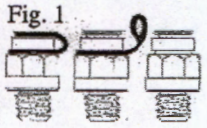
- Ambient temperatures below 40°C (104°F).
- Unimpeded flow of air to the motor and variable speed units.
- Accessibility to the drain, level and breather plugs.
- Adequate space for removal of brakemotor fanguard for brake adjustment and maintenance.

The drive unit should be mounted on a flat, vibration damping, and torsionally rigid structure. Careful alignment is critical. Mounting to an uneven surface will cause housing distortion. The flatness tolerance of the supporting surface should not exceed:

- For gear units size 80 and smaller — 0.004 inch.
- For gear units above size 80 — 0.008 inch.

For transportation, the units are supplied with the breather plug already mounted. After the unit is installed, the black rubber seal located on the breather MUST BE REMOVED (Fig. 1). In addition, the oil level should be checked. Remove the plated (non-painted) oil level plug. The oil level is correct when the surface of the oil is level with the lowest point of that tapped hole, the exception is S37. Units W20 and W30 are sealed in any position.

Fig. 1



After installation, the actual mounting position should be confirmed against the mounting position shown on the gear reducer nameplate. Adequate lubrication is only guaranteed if the unit is mounted in the specific nameplated mounting position.

Refer to the SEW Catalog or request **Document #2111, #2112, #2113,** or **#2114 (R, F, K, or S, respectively)** if a specific mounting position diagram is needed.

MAINTENANCE

Warning! **Always ensure equipment is secure and electrical power is off before removing or performing maintenance on the drive assembly.** Oil levels and oil quality should be checked at regular intervals, determined by usage and the environment. Grease and oil should be changed per the recommendations on page 2. Check coupling alignment, chain or belt tension, and mounting bolt torque periodically. Keep the drive relatively free of dust and dirt.

For additional information call the SEW FAXline, 1-800-601-6195, and request document number shown.

SEW EURODRIVE

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