



PROPULSION CONTROL HEAD

Dependable Precise Control

PCH propulsion control heads provide remote control for a wide range of single or twin screw marine applications.

Versatile Design

Modular construction allows many configurations of pressure regulators and directional valves with single or dual levers. PCH pneumatic control heads are available with electric shaft systems, telegraph systems, electric controls and many other options.

Rugged Construction

Built to endure heavy use. All cams and detents use roller followers for reduced wear and smooth operation. A rugged adjustable friction brake eliminates creep.

Illumination

Dimmable illumination with incandescent bulbs. Choose from a variety of standard scales, or have PMC design a custom scale to suit your needs.

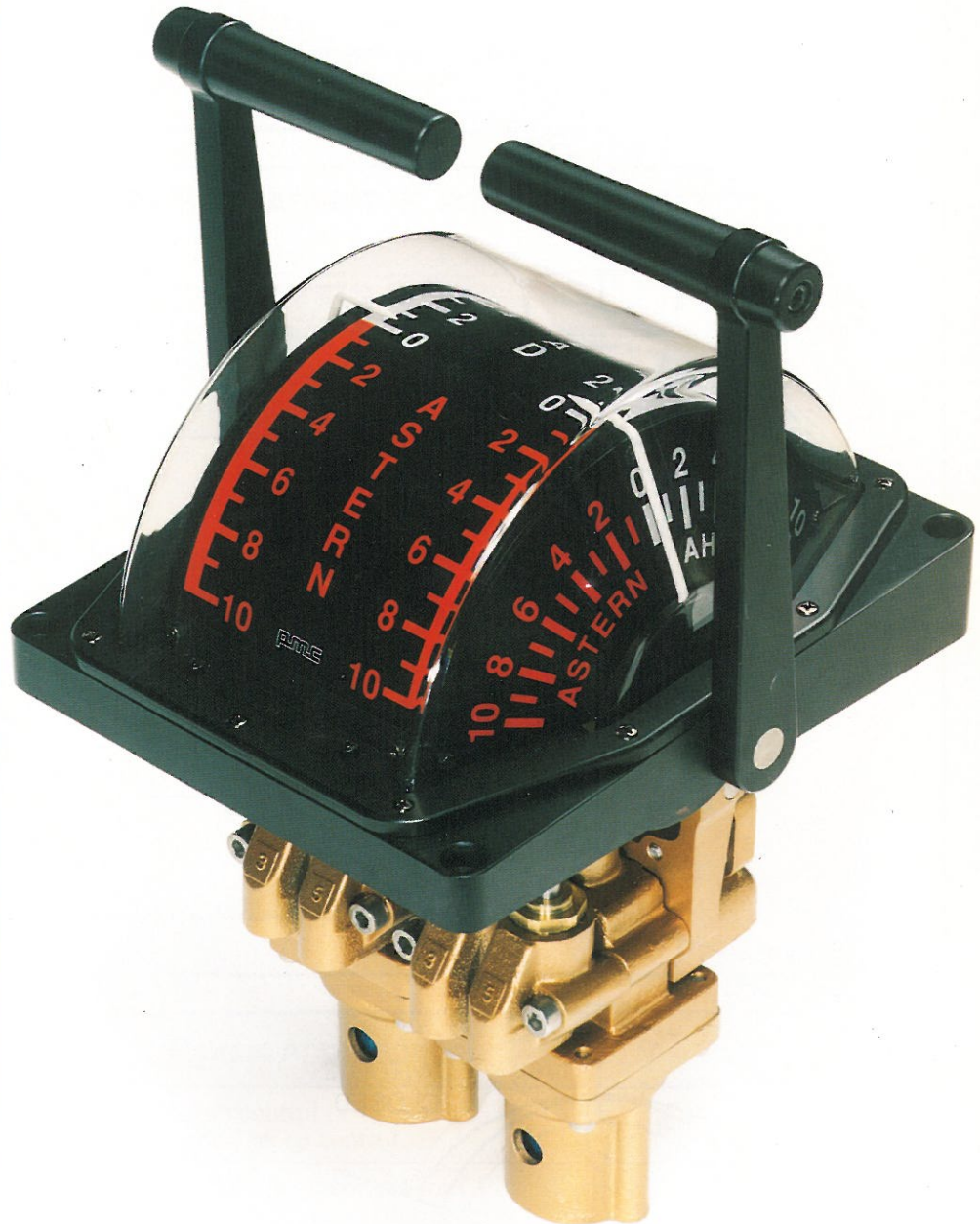
Watertight

Completely watertight design allows outdoor installation.

Corrosion Resistant

PCH control heads are built with materials that are compatible with the hostile marine environment.

Type PCH Pneumatic



PRIME MOVER CONTROLS INC.

VANCOUVER, BC, CANADA

**DESIGN MANUFACTURE AND SERVICE OF MARINE AND
INDUSTRIAL CONTROL COMPONENTS AND SYSTEMS**

Electronic - Pneumatic - Hydraulic - Mechanical

DESCRIPTION

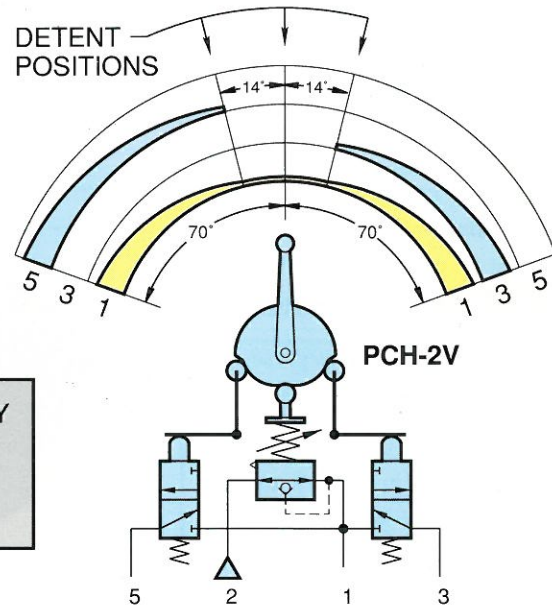
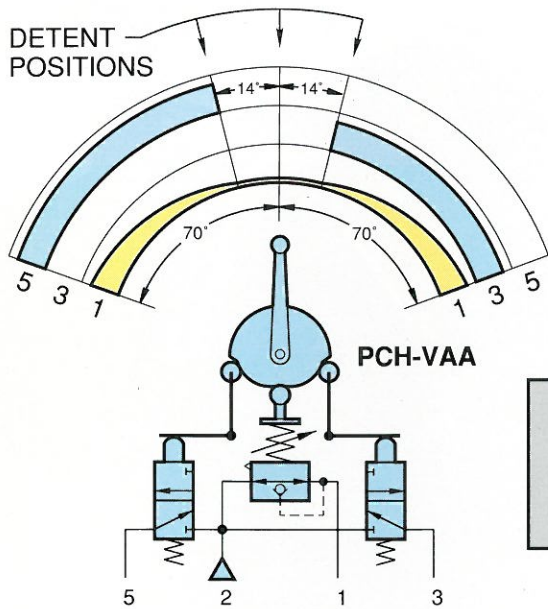
PCH pneumatic control heads are designed for long, trouble free service. They are ruggedly built with materials that are compatible with the hostile marine environment. To ensure smooth operation and minimum wear, rollers are used for all cam followers and detents. Friction and detent force are both adjustable. Detents are available in full, half and one-way configurations.

A rolling diaphragm provides exceptional accuracy and sensitivity in the pressure regulator. Many pressure ranges up to 145 psi (1000 KPa) are available. Adjustable slope cams provide further flexibility in the pressure range.

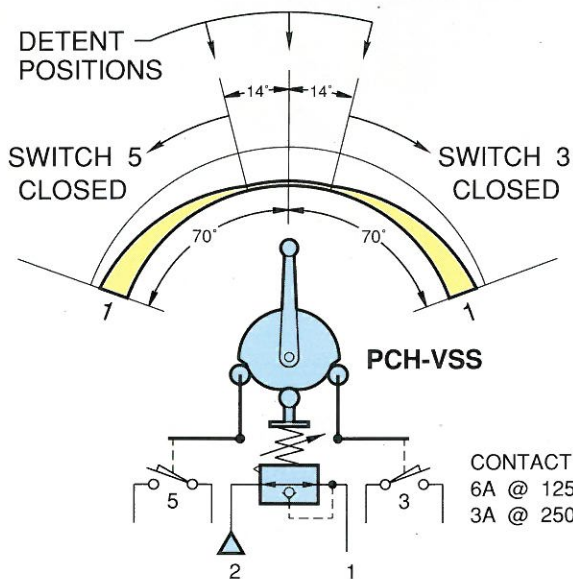
PCH control heads are suitable for installation in outside control stations due to their watertight design. Large illuminated scales and pointers make it easy to see the control handle position from a distance.

Versatility is achieved by modular construction. Many configurations are available for a variety of marine and industrial applications. The table on the opposite page shows a few typical applications. PCH control heads are also available with pneumatic control on one side and telegraph, electric control or electric shaft on the other. They are available with parallel frames for applications such as bow thruster control. Tapered frames are shown in this bulletin.

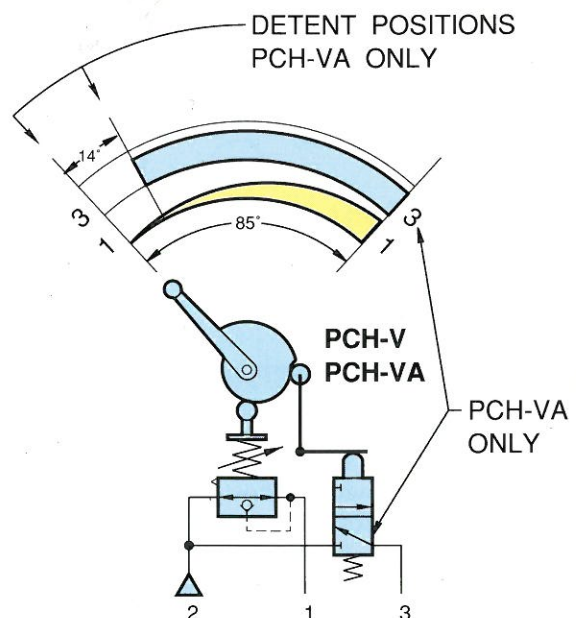
SCHEMATICS & TYPICAL AIR PRESSURE GRAPHS



MAX. SUPPLY PRESSURE
1700 KPA
(250 PSI)

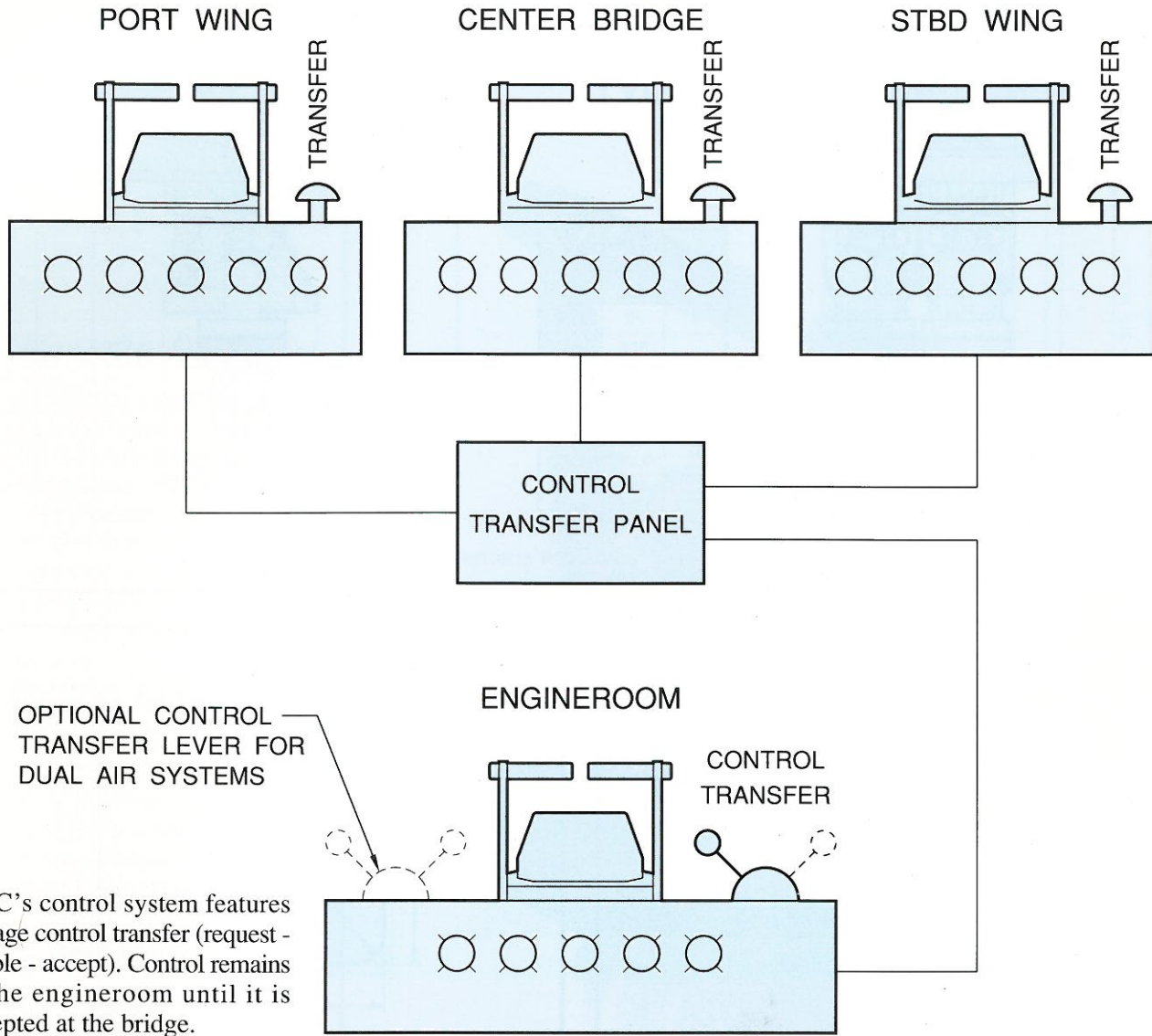


CONTACT RATING:
6A @ 125V ac/dc
3A @ 250Vdc



SIMPLIFIED BLOCK DIAGRAM

Typical Twin Screw Control System
Three Bridge Stations - One Engineerroom Station



PMC's control system features 3-stage control transfer (request - enable - accept). Control remains in the engineerroom until it is accepted at the bridge.

Type	Description	Typical Applications	See PMC Bulletin
PCH-V	One variable pressure signal	Brake control or engine speed control	RB-5402-3000
PCH-VAA	One variable pressure signal and two on-off (Ahd/Ast) signals	Pitch & speed control for CPP, or clutch & speed control for fixed pitch propellers	RB-5402-1000
PCH-2V	Two variable pressure (Ahd/Ast) signals	Thruster control, hydraulic slip clutch control, or winch control	RB-5402-1000
PCH-VSS	One variable pressure signal and two normally open switch contacts	Same as PCH-VAA but used with solenoid valves for on-off signals to minimize time delays	RB-5402-1000
PCH-VA	One variable pressure signal and one on-off signal	Single clutch and throttle control	RB-5402-3000

DIMENSIONS

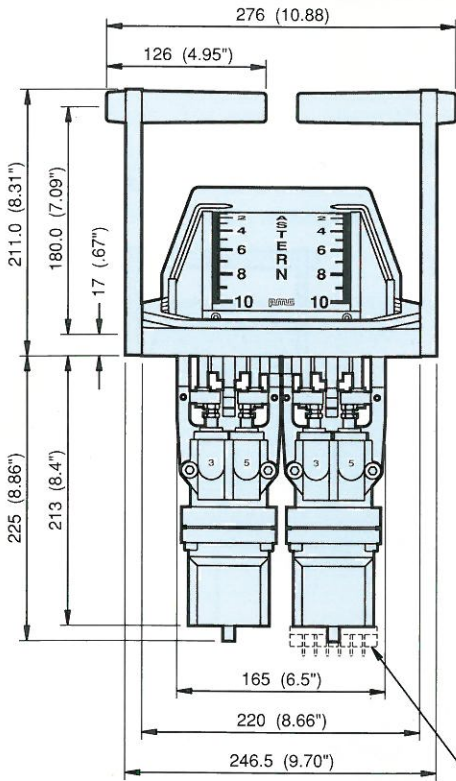
PCH PNEUMATIC CONTROL HEAD, L HANDLE

DIMENSIONS ARE IN mm (INCHES)

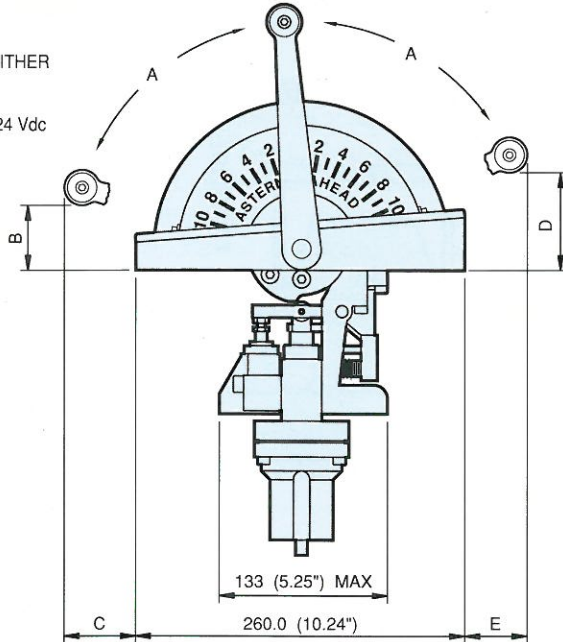
WEIGHT: 16 Kg (35 lb)

PNEUMATIC PORTS ARE EITHER
1/4-18 NPT OR M14 x 1.5

ILLUMINATION: 320 mA @ 24 Vdc

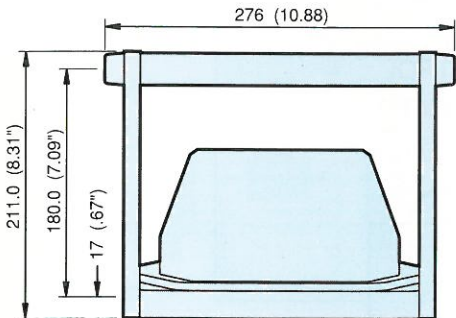


TYPE PCH-	VAA 2V VSS	V VA
A	70°	42.5°
B	51.5 (2.03")	126 (4.95")
C	56.5 (2.23")	14.5 (.57")
D	77.4 (3.05")	145 (5.7")
E	49.0 (1.93")	0 (0")

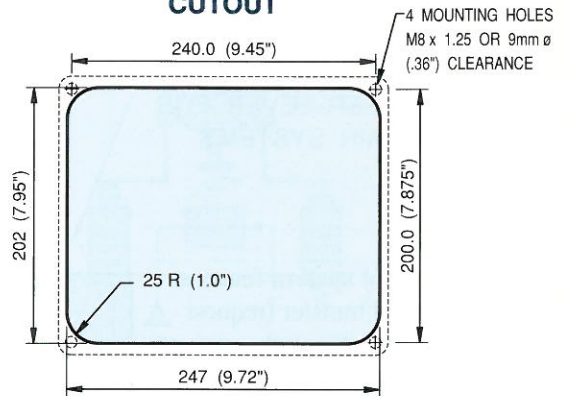


TERMINAL BLOCK FOR ELECTRICAL OPTIONS

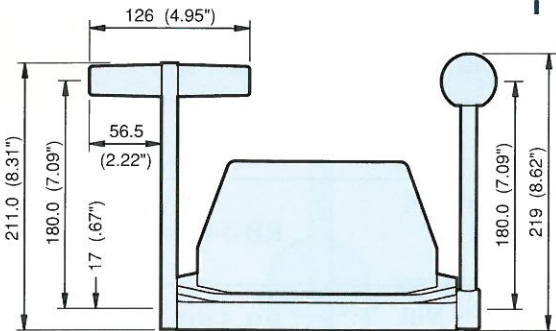
CENTER HANDLE



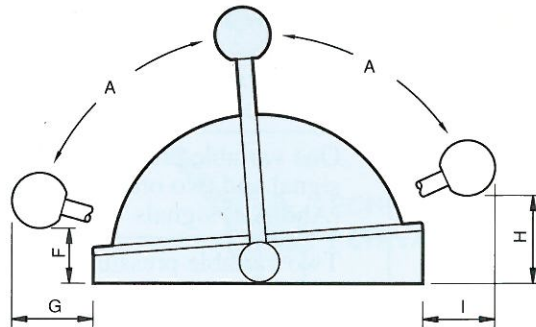
CUTOUT



T AND BALL HANDLES



TYPE PCH-	VAA 2V VSS	V VA
A	70°	42.5°
F	43 (1.7")	118 (4.65")
G	64 (2.53")	22 (.85")
H	69 (2.7")	137 (5.4")
I	57 (2.25")	4 (.15")



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