

## CONDENSATE POT & SEAL POT MODEL: DHCP

# Precision Engineering for Critical Applications

Essential protection devices for DP Flowmeters and Transmitters. Condensate Pots handle steam applications while Seal Pots protect against corrosive fluids, ensuring measurement accuracy and instrument longevity.

Model : DHCP



## Product Overview & Selection Guide

Condensate Pot and Seal Pot are essential auxiliary devices installed to protect differential pressure (DP) flowmeters and transmitters while enhancing measurement accuracy.

TYPE	CONDENSATE POT	SEAL POT
Primary Use	Steam Line Measurement	Corrosive, High Viscosity, Freezing Fluid Measurement
Function	Converts high-temperature steam into <b>condensate (water)</b> to prevent heat transfer to instruments and maintain reference head	Fills <b>sealing liquid</b> between process fluid and instrument to prevent direct contact and corrosion
Working Fluid	Process Condensate	Separate Sealing Liquid (Glycol, Water, Oil, etc.)

## Standard Specifications

Materials and thicknesses conforming to ASME standards for various process pressures and temperatures.

### STANDARD MATERIALS

#### Carbon Steel

ASTM A106 Gr.B / A105

#### Stainless Steel

ASTM A312 TP304/304L,  
TP316/316L

#### Alloy Steel

ASTM A335 P11, P22, P91, P92  
(High temp/pressure)

### END CONNECTIONS

#### Thread

NPT (ANSI B1.20.1), PT (ISO 7/1)

#### Socket Weld

ANSI B16.11

#### Butt Weld

ANSI B16.9

#### Flange

ANSI B16.5 Class 150# ~ 2500#

## Port Configuration & Design

Select optimal port position based on installation environment and piping direction.

### Type A: 2-Port System

**Configuration:** Inlet(1) / Outlet(1)

**Features:** Simplest design for applications not requiring separate drain/vent ports.

### Type B: 3-Port System

**Configuration:** Inlet(1) / Outlet(1) / Drain or Vent(1)

**Features:** For applications requiring either top vent (gas removal) or bottom drain (debris removal).

### Type C: 4-Port System

**Configuration:** Inlet(1) / Outlet(1) / Vent(Top) / Drain(Bottom)

**Features:** Most widely used standard type. Enables both air discharge (Vent) and debris discharge (Drain) for easy maintenance.

**Note:** Side Port and Top Port positions and angles (90°, 180°) can be customized per customer request.

# Quality Assurance & Testing

All products undergo rigorous manufacturing processes and testing before shipment.

## WELDING

TIG/Arc welding performed by qualified welders (WPS/PQR) in accordance with ASME Sec. IX

## NDE (NON-DESTRUCTIVE EXAMINATION) (OPTIONAL)

PT (Penetrant Test), RT (Radiographic Test), UT (Ultrasonic Test) available upon request

## HYDROSTATIC TEST (OPTIONAL)

100% tested at 1.5× design pressure to ensure leak-free performance

## CLEANING (OPTIONAL)

Oil and weld slag removal (Oxygen service degreasing available)

## SURFACE TREATMENT (CARBON STEEL) (OPTIONAL)

Anti-rust painting or Hot Dip Galvanizing

## SURFACE TREATMENT (STAINLESS STEEL) (OPTIONAL)

Pickling and Passivation



# Ordering Information

Please specify the product specifications using the following codes when ordering.

## Model Code Format

DHCP - [Size] - [Sch] - [Mat] - [Conn] - [Conf]

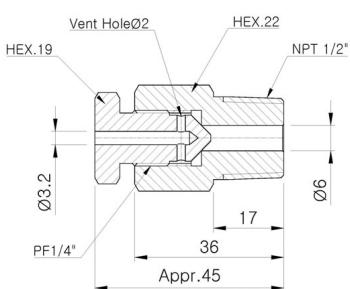
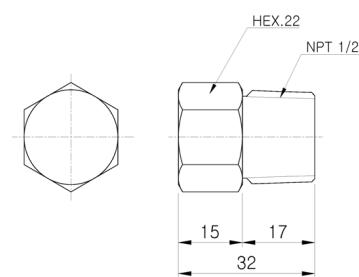
CODE POSITION	DESCRIPTION	SELECTION OPTIONS	
1. Size	Pipe Size	<b>2B</b>	2 inch
		<b>3B</b>	3 inch
		<b>4B</b>	4 inch
2. Sch	Schedule (Thickness)	<b>10</b>	Sch 10
		<b>40</b>	Sch 40/40S
		<b>80</b>	Sch 80/80S
		<b>160</b>	Sch 160
3. Material	Body Material	<b>C</b>	A106 Gr.B
		<b>4S</b>	SS304/304L
		<b>6S</b>	SS316/316L
		<b>P11</b>	A335 P11
		<b>P12</b>	A335 P12
		<b>P91</b>	A335-P91
4. Connection	Connection Type	<b>P1</b>	PT 1/2"
		<b>P3</b>	PT 3/4"
		<b>N1</b>	NPT 1/2"
		<b>N3</b>	NPT 3/4"
		<b>S1</b>	Socket Weld 1/2"
		<b>S3</b>	Socket Weld 3/4"
5. Conf	Port Configuration	<b>2P</b>	2-Port
		<b>3P</b>	3-Port
		<b>4P</b>	4-Port (Vent & Drain)

**Ordering Example:** DHCP-3-80-6S-N1-4P

3 inch, Sch 80, SUS316L material, NPT thread connection, 4-Port type

# Accessories

## MODEL : BP Series / VP Series



### High Pressure Blind Plug

Standard component for securely sealing pot drain and spare ports.

#### Features:

- High pressure rating per ASME B16.11 (3000# & 6000# & 9000#)
- Material match prevents galvanic corrosion
- Precision NPT threads minimize galling

Model:	BP-Series
Application:	Drain Port / Filling Port sealing
Thread:	NPT 1/2", 3/4"
Material:	SS316, SS304, A105, A182-F91
Rating:	Class 3000#, 6000#, 9000#

### Vent Plug

Functional plug for Seal Pots and sensitive lines requiring pressure equalization while preventing contamination.

#### Features:

- Controls condensation from temperature differences
- Prevents pot/instrument deformation from pressure buildup

Model:	VP-Series
Application:	Outdoor Seal Pots / Buffer Tanks
Thread:	1/2" NPT, 3/4" NPT (Standard)
Material:	SS316, SS304, A105, A182-F91
Rating:	Up To 100 Bar

### Accessory Ordering Information

Accessories can be specified separately or added when ordering pots.

Code Format: [Item] - [Size] - [Mat] - [Type]

- **Item:** BP (Blind Plug), VP (Vent Plug)
- **Size:** 15 (1/2" NPT), 20 (3/4" NPT)
- **Mat:** S6 (SS316L), CS (Carbon Steel), BR (Brass)
- **Type:** BP: H (Hex Head), R (Round Head) / VP: S (Standard), H (High Airflow)

**Ordering Example:**  
BP-15-S6-H

1/2" NPT, SUS316L, Hex head plug (Most common)

**Ordering Example:**  
VP-15-S6-S

1/2" NPT, SUS316L, Standard vent plug