

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 condensate (water) to prevent heat transfer to instruments and maintain reference head	Fills sealing liquid 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]

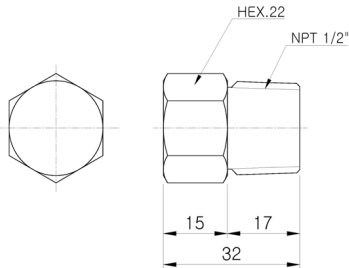
CODE POSITION	DESCRIPTION	SELECTION OPTIONS	
1. Size	Pipe Size	2B	2 inch
		3B	3 inch
		4B	4 inch
2. Sch	Schedule (Thickness)	10	Sch 10
		40	Sch 40/40S
		80	Sch 80/80S
		160	Sch 160
3. Material	Body Material	C	A106 Gr.B
		4S	SS304/304L
		6S	SS316/316L
		P11	A335 P11
		P12	A335 P12
		P91	A335-P91
4. Connection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



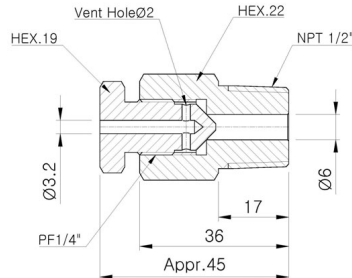
High Pressure Blind Plug

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