

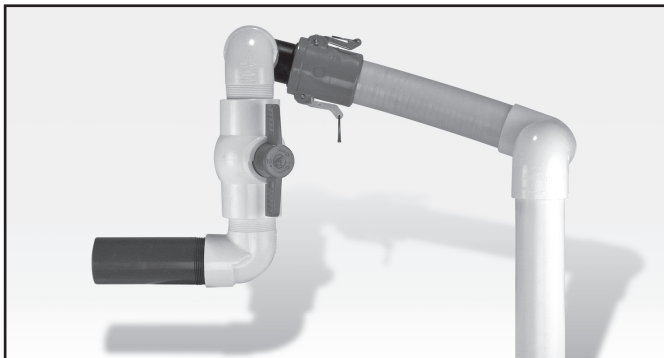
# HV-Series Pump Discharge Assemblies

## Applications

Orenco HV-Series Pump Discharge Assemblies convey effluent from a pump to the exterior of a riser or pump basin. They come in the following configurations:

- Field cut, for high-head discharge assemblies where field adjustment is likely necessary
- Drainback, for use with shallowly buried tanks and transport lines in cold climates
- High head, for use with submersible turbine effluent pumps
- Low head, for use with low-pressure effluent pumps

A cold weather kit is available for high-head configurations only, for use in deeply buried tanks and transport lines where cold weather is a concern. Additionally, an external flex extension is available for installations where tank settling may occur to avoid line breakage during settling. Orenco strongly recommends using an external flex extension if settling may occur.



High-head configuration with optional quick-disconnect installed

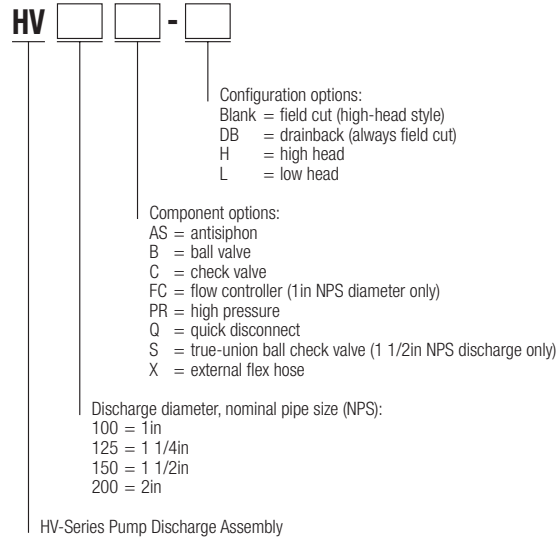
## General

HV-Series pump discharge assemblies are corrosion resistant and adjustable for a proper fit. They are composed of PVC valves and flexible hose that simplify installation and maintenance. The flexible hose also dampens vibrations from the pump. Cam-style quick-disconnect fittings are available on all configurations. All parts are either solvent welded or threaded and sealed with PTFE paste. For the most accurate information on pairing Orenco's pumps to HV-Series pump discharge assemblies, use Orenco's PumpSelect™ software.

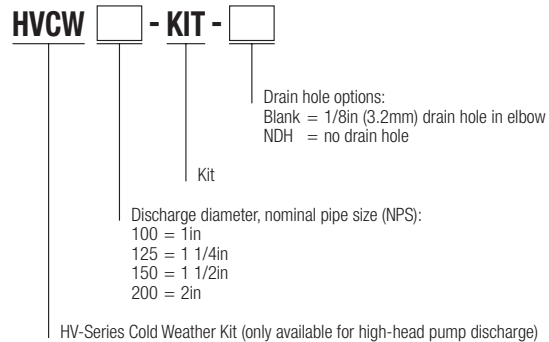
## Standard Models

HV100BCX, HV125BCX, HV150BCX, HV200BCX

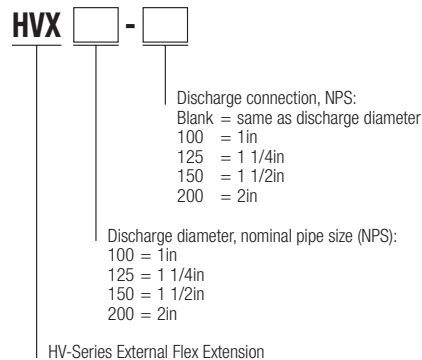
## Product Code Diagrams



*Not all product code configurations may be available as standard products.*



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1. High-head configuration
2. High-head configuration with cold weather kit installed
3. High-head drainback configuration
4. Low-head configuration
5. Cold weather kit
6. External flex extension

### Materials of Construction\*

External flex extension	PVC
Flexible hose	PVC
Flow control disc	Schedule 80 PVC
High-pressure flex hose	Special elastomer compound
Pipe and fittings	Schedule 40 PVC

\*For information regarding materials of construction for unions and valves used in HV-Series pump discharge assemblies, see [Unions and Valves for Orenco Products, NTD-GOP-VLV-1](#).

### Flexible Hose Thickness and Working Pressure at 73°F (23°C)\*

Type	Nominal pipe size, in (mm)	Wall thickness, in (mm)	Working pressure, psi (bar)	Bursting pressure, psi (bar)
Standard and external	1 (25)	0.11 (2.8)	100 (7)	355 (24)
	1 1/4 (32)	0.13 (3.3)	80 (6)	250 (17)
	1 1/2 (40)	0.13 (3.3)	65 (4)	200 (14)
	2 (50)	0.16 (4.1)	60 (4)	175 (12)
High pressure	1 (25)	0.235 (6.0)	250 (17)	N/A
	1 1/4 (32)	0.24 (6.1)	250 (17)	N/A
	1 1/2 (40)	0.24 (6.1)	250 (17)	N/A
	2 (50)	0.22 (5.6)	200 (14)	N/A

\*For information regarding working pressures of unions and valves used in HV-Series pump discharge assemblies, see [Unions and Valves for Orenco Products, NTD-GOP-VLV-1](#).