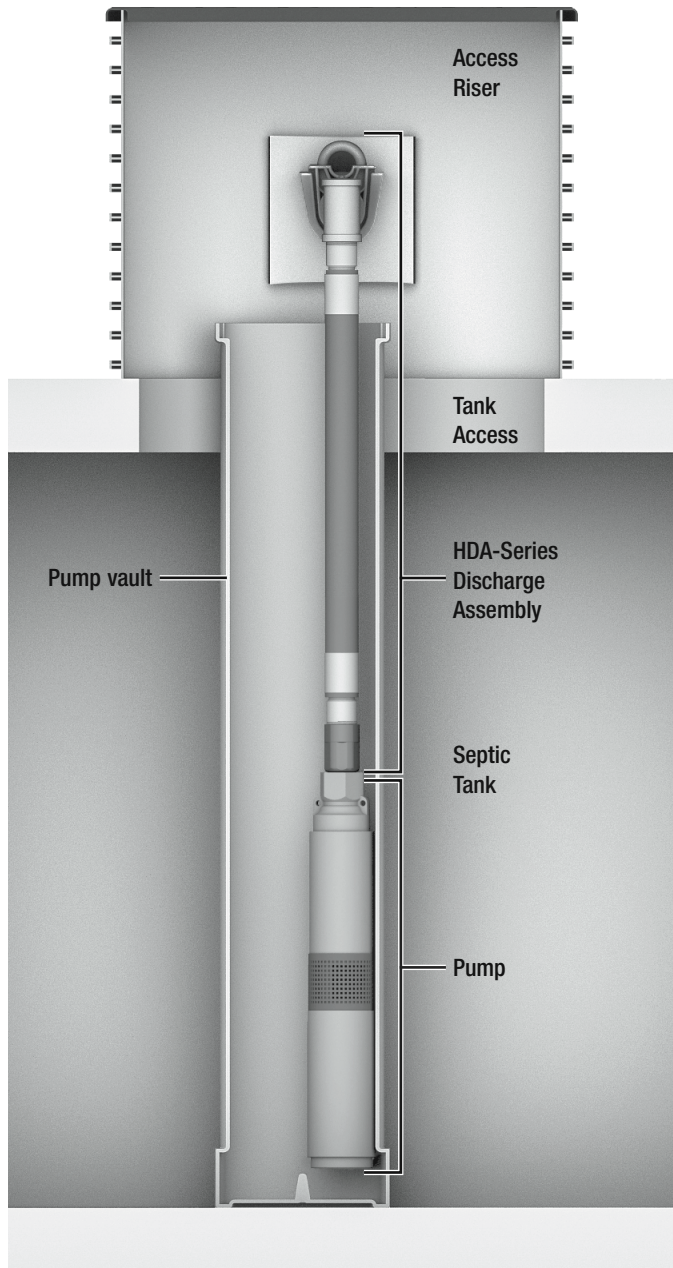


HDA Discharge Assemblies

Applications

Orenco's HDA Discharge Assemblies are designed to work with 4-inch (100-mm) submersible effluent pumps to convey effluent to the exterior of a riser, tank or basin. They are not intended for "low-head" centrifugal pumps. HDA discharge assemblies are suitable for most pumping applications requiring simplex or duplex pumps. And they are ideal for sites with deep burial needs or cold weather conditions.



HDA Discharge Assemblies provide clear access to tank and basin components. (Cross-sectional illustration of simplex HDA installed in a typical concrete tank.)

General

HDAs are hanging-style discharge assemblies designed to provide a simple, durable, watertight installation and clear access to tank and basin components. They combine an ABS mounting plate with a quick-disconnect fitting and a section of flexible, high-pressure hose with stainless steel fittings. Hose length is determined by the system configuration. Contact your Distributor or Orenco for more information.

HDAs are rated for 10-, 20-, and 30-gpm pumps (0.6-, 1.3-, and 1.9-L/sec). They are extremely easy to remove and reinstall for servicing with a simple tool (HDATOOl), available separately for purchase.

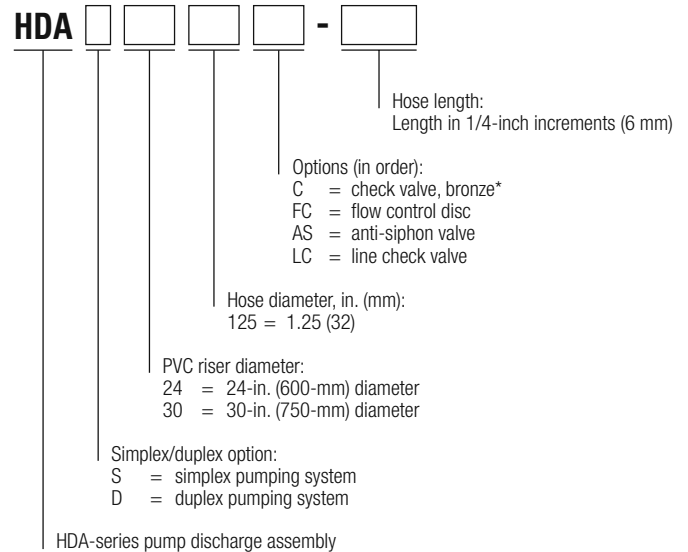
Standard Models

HDAS24125CFCASLC-XX

HDAD24125CFCASLC-XX

HDATOOl

Product Code Diagram



* Bronze check valves are not needed if the pump used has an internal check valve. Orenco's PF100511CV pump is equipped with an internal check valve.

Materials of Construction

HDA

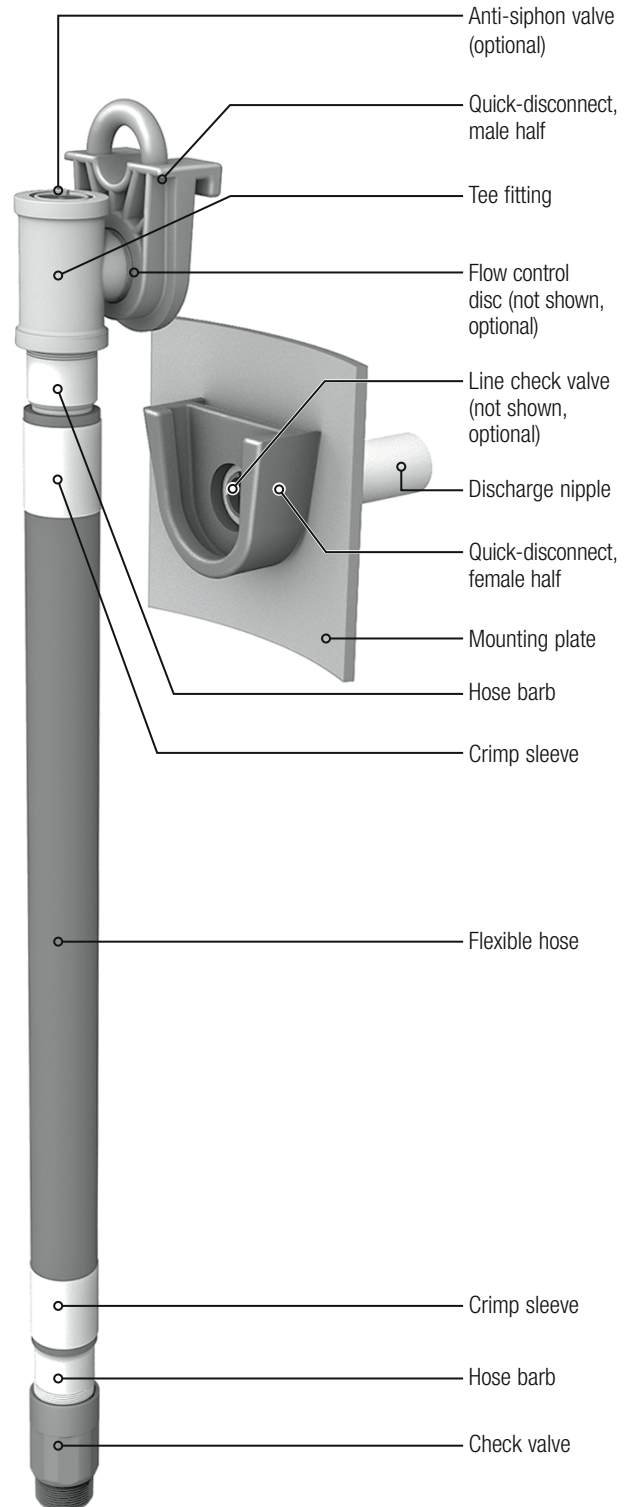
Anti-siphon valve	Sch. 80 PVC, EPDM, stainless steel
Check valve	Bronze
Crimp sleeve	Stainless steel
Discharge nipple	Sch. 80 PVC
Flexible hose	Reinforced EPDM
Flow control disc	Sch. 80 PVC, 1/8-inch (3.2 mm) orifice
Hose barb	Stainless steel
Line check valve	Sch. 80 PVC, EPDM, stainless steel
Mounting plate	ABS (simplex), fiberglass (duplex)
Mounting plate screws	Stainless steel
Quick-disconnect	Glass-filled thermoplastic
Tee fitting	Stainless steel

HDATOOL

Handle	Fiberglass
Tool head	Stainless steel
End cap	Rubber

Working Pressures and Dimensions

Model	HDAS24125C-XX	HDAD24125C-XX
Unit working pressure, psi (kPa)	150 (1034)	150 (1034)
Height, mounting plate, in. (mm)	7 (178)	7 (178)
Width, mounting plate, in. (mm)	7 (178)	14 (356)
Diameter, discharge nipple, in. (mm)	1¼ (32)	1¼ (32)
Diameter, flow control disc orifice, in. (mm)	¼ (6.35)	¼ (6.35)



HDA Discharge Assemblies are constructed of durable, corrosion-resistant parts that are designed to work together for a long service life. (Simplex model shown.)

Hose Length Selection Chart

Correct HDA Hose Length for Pump and PVU Model, in. (mm)*							
Pump	PVU48	PVU57	PVU68	PVU72	PVU84	PVU95	PV55
PF100511CV ²	24.00 (610)	33.00 (838)	44.00 (1118)	48.00 (1219)	60.00 (1524)	71.00 (1803)	31.75 (806)
PF10051X	21.00 (533)	30.00 (762)	41.00 (1041)	45.00 (1143)	57.00 (1448)	68.00 (1727)	27.75 (705)
PF100712	18.00 (457)	27.00 (686)	38.00 (965)	42.00 (1067)	54.00 (1372)	65.00 (1651)	24.75 (629)
PF15031X	24.50 (622)	33.50 (851)	44.50 (1130)	48.50 (1232)	60.50 (1537)	71.50 (1816)	31.25 (794)
PF20051X	21.75 (552)	30.75 (781)	41.75 (1060)	45.75 (1162)	57.75 (1467)	68.75 (1746)	28.50 (724)
PF201012	15.50 (394)	24.50 (622)	35.50 (902)	39.50 (1003)	51.50 (1308)	62.50 (1588)	22.25 (565)
PF201512	10.00 (254)	19.00 (483)	30.00 (762)	34.00 (864)	46.00 (1168)	57.00 (1448)	16.75 (425)
PF30051X	22.75 (578)	31.75 (806)	42.75 (1086)	46.75 (1187)	58.75 (1492)	69.75 (1772)	29.50 (749)
PF300712	19.25 (489)	28.25 (718)	39.25 (997)	43.25 (1099)	55.25 (1403)	66.25 (1683)	26.00 (660)
PF301012	17.00 (432)	26.00 (660)	37.00 (940)	41.00 (1041)	53.00 (1346)	64.00 (1626)	23.75 (603)
PF301512	11.25 (286)	20.25 (514)	31.25 (794)	35.25 (895)	47.25 (1200)	58.25 (1480)	18.00 (457)
PVA100511	22.00 (559)	31.00 (787)	42.00 (1067)	46.00 (1168)	58.00 (1473)	69.00 (1753)	28.75 (730)
PVA300511	23.50 (597)	32.50 (826)	43.50 (1105)	47.50 (1207)	59.50 (1511)	70.50 (1791)	30.25 (768)
PF10053200	21.00 (533)	30.00 (762)	41.00 (1041)	45.00 (1143)	57.00 (1448)	68.00 (1727)	30.75 (781)
PF10073200	18.50 (470)	27.50 (699)	38.50 (978)	42.50 (1080)	54.50 (1384)	65.50 (1664)	25.25 (641)
PF20053200	21.75 (552)	30.75 (781)	41.75 (1060)	45.75 (1162)	57.75 (1467)	68.75 (1746)	28.50 (724)
PF20103200	16.25 (413)	25.25 (641)	36.25 (921)	40.25 (1022)	52.25 (1327)	63.25 (1607)	23.00 (584)
PF20153200	13.25 (337)	22.25 (565)	33.25 (845)	37.25 (946)	49.25 (1251)	60.25 (1530)	20.00 (508)
PF30053200	22.75 (578)	31.75 (806)	42.75 (1086)	46.75 (1187)	58.75 (1492)	69.75 (1772)	29.50 (749)
PF30073200	19.50 (495)	28.50 (724)	39.50 (1003)	43.50 (1105)	55.50 (1410)	66.50 (1689)	26.25 (667)
PF30103200	17.50 (445)	26.50 (673)	37.50 (953)	41.50 (1054)	53.50 (1359)	64.50 (1638)	24.25 (616)
PF30153200	14.25 (362)	23.25 (591)	34.25 (870)	38.25 (972)	50.25 (1276)	61.25 (1556)	21.00 (533)
PF301534	14.50 (368)	23.50 (597)	34.50 (876)	38.50 (978)	50.50 (1283)	61.50 (1562)	21.25 (540)

* Hose lengths shown are based on a discharge hole center height of 8 inches (200 mm) from the bottom of the riser and with the pump vault's support pipes resting on the top of the tank. These lengths also work for a discharge hole center height 11 inches (279 mm) from the bottom of the riser when using an Orenco RRFTA24 or FRFTA24-RVF tank adapter on a tank. Other factors may affect the hose length selection process. Contact Orenco for more details.