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3-Port Conventional Model

The 3-Port HDI is a compact, lightweight solenoid valve, offering consistent performance and low power consumption. This valve is ideal for applications where a large number of valves need to be designed into the smallest area possible.

FEATURES:

- Compact size: as small as 0.28" (W) x 1.12" (L)
 - Lightweight: less than 4.5 grams
 - Low internal volume: Plug-In (40 μ L), Face Mount (72 μ L) and Ported (77 μ L)
 - Cycle Life: 10 million cycles (silicone), 250 million cycles (FKM).
See [page A37](#) for additional information.
 - Leakage: 50 SpLPM max. at 5 psid air; 70°F (21°C) throughout rated cycle life
 - Operating temperature range: 40°F to 120°F (4°C to 49°C)
 - Wetted materials: housing (PBT), spring (302 or 316 SS) and epoxy. See table below for seal, plunger head and armature/plunger stop wetted materials.
- The o-rings on all Plug-In style valves are FKM.

STYLE	PART NUMBER ¹	LOHM RATE ³ ON AIR AT 70°F (21°C)	OPERATING PRESSURE
 Plug-In	LHDA__11111H	1100 Lohms (7.3 SLPM @ 15 psid; Ref. Cv = 0.018)	<u>Supply</u> Vac – 45 psig <u>Differential</u> 15 psid (max.)
	LHDA__11211H		
	LHDA__11311H		
	LHDA__11411H		
 Face Mount	LHDA__21111H	1100 Lohms (7.3 SLPM @ 15 psid; Ref. Cv = 0.018)	<u>Supply</u> Vac – 45 psig <u>Differential</u> 15 psid (max.)
	LHDA__21211H		
	LHDA__21311H		
	LHDA__21411H		
	LHDA0523112H	1200 Lohms (10.1 SLPM @ 30 psid; Ref. Cv = 0.016)	<u>Supply</u> Vac – 45 psig <u>Differential</u> 30 psid (max.)
	LHDA0523212H		
	LHDA0523312H		
	LHDA0523412H		
	LHDA__23111H ²	1100 Lohms (11 SLPM @ 30 psid; Ref. Cv = 0.018)	<u>Supply</u> Vac – 45 psig <u>Differential</u> 30 psid (max.)
	LHDA__23211H ²		
	LHDA__23311H ²		
	LHDA__23411H ²		
 Ported	LHDA__31115H	1500 Lohms (5.4 SLPM @ 15 psid; Ref. Cv = 0.013)	<u>Supply</u> Vac – 45 psig <u>Differential</u> 15 psid (max.)
	LHDA__31215H		
	LHDA__31315H		
	LHDA__31415H		
	LHDA__33115H	1500 Lohms (8 SLPM @ 30 psid; Ref. Cv = 0.013)	<u>Supply</u> Vac – 45 psig <u>Differential</u> 30 psid (max.)
	LHDA__33215H		
	LHDA__33315H		
	LHDA__33415H		

NOTES: (1) Solenoid valves are available in 5, 12 and 24 Vdc configurations.

LHDA__11111H

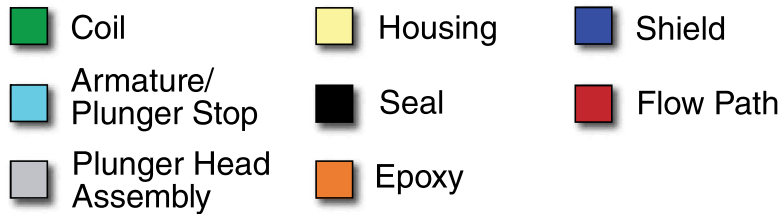
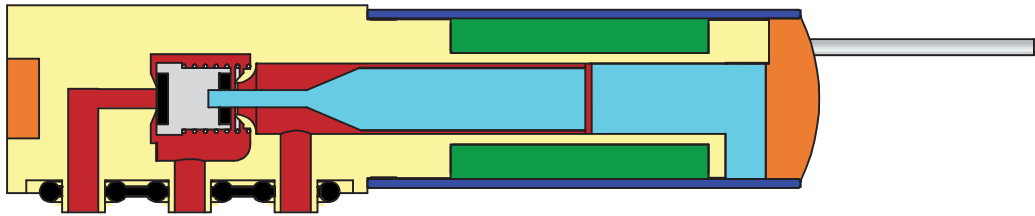


Coil Voltage: 05 = 5 Vdc / 12 = 12 Vdc / 24 = 24 Vdc

(2) Available in 12 and 24 Vdc only.

(3) Refer to Engineering Reference ([Section R](#)), for a full description of the Lohm Laws.

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	POWER CONSUMPTION ⁴ AT 70°F (21°C) (mW)	WETTED MATERIALS ⁵			CONFIGURATION ⁷
		SEAL	PLUNGER HEAD	ARMATURE/PLUNGER STOP	
	550	Silicone	PPS	430 SS	C
	550	FKM	PPA	430 SS	C
	550	Silicone	PPS	FeCr Alloy ⁶	C
	550	FKM	PPA	FeCr Alloy ⁶	C
	550	Silicone	PPS	430 SS	D
	550	FKM	PPA	430 SS	D
	550	Silicone	PPS	FeCr Alloy ⁶	D
	550	FKM	PPA	FeCr Alloy ⁶	D
	750	Silicone	PPS	430 SS	D
	750	FKM	PPA	430 SS	D
	750	Silicone	PPS	FeCr Alloy ⁶	D
	750	FKM	PPA	FeCr Alloy ⁶	D
	750	Silicone	PPS	430 SS	D
	750	FKM	PPA	430 SS	D
	750	Silicone	PPS	FeCr Alloy ⁶	D
	750	FKM	PPA	FeCr Alloy ⁶	D
	550	Silicone	PPS	430 SS	E
	550	FKM	PPA	430 SS	E
	550	Silicone	PPS	FeCr Alloy ⁶	E
	550	FKM	PPA	FeCr Alloy ⁶	E
	750	Silicone	PPS	430 SS	E
	750	FKM	PPA	430 SS	E
	750	Silicone	PPS	FeCr Alloy ⁶	E
	750	FKM	PPA	FeCr Alloy ⁶	E

(4) See [page A38](#) for additional electrical characteristics.

(5) Refer to Engineering Reference Section, [pages R53-54](#), for material information and abbreviations.

(6) Wetted materials are optimized for saline compatibility.

(7) See [page A19](#) for valve dimensions, and [page A21-22](#) for mounting requirements.