

NEV / TEV / VPV Series Solenoid Valves

Technical Data and Selection Guide

Connection: Copper tube joint	Pressure units: MPa [kgf/cm ²]	Valve function: NO / NC; see note below	Frequency values: 50 Hz / 60 Hz
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1. Selection Parameters

Model	Orifice (mm)	Cv	Tube O.D.	Min. operating ΔP	Max. operating ΔP	Max. working pressure	Function	Valve mass (kg)
NEV-L202DXF	1.8	0.06	1/4 in	0	2.06 [21]	3.3 [33.7]	NO	0.06
NEV-152DXF	1.5	0.07	1/4 in	0	2.06 [21]	3.3 [33.7]	NC	0.04
NEV-202DXF	1.9	0.09	1/4 in	0	2.06 [21]	3.3 [33.7]	NC	0.04
NEV-603DXF	5.8	0.65	5/16 in	0	2.06 [21]	3.3 [33.7]	NC	0.08
NEV-803DXF	7.8	1.5	3/8 in	0.01 [0.1]	2.06 [21]	3.3 [33.7]	NC	0.14
NEV-1204DXF	11.0	3.0	1/2 in	0.015 [0.15]	2.06 [21]	3.3 [33.7]	NC	0.26
TEV-1220D	1.2	0.037	1/4 in	0	2.7 [27.6]	3.3 [33.7]	NC	0.04
TEV-1620DQ2	1.6	0.07	1/4 in	0	2.7 [27.6]	3.3 [33.7]	NC	0.04
TEV-1920D	1.9	0.1	1/4 in	0	1.7 [17.3]	3.3 [33.7]	NC	0.04
VPV-L202D	1.8	0.06	1/4 in	0	2.06 [21]	4.15 [42.3]	NO	0.06
VPV-122D	1.2	0.04	1/4 in	0	3.6 [36.7]	4.15 [42.3]	NC	0.04
VPV-152D	1.5	0.07	1/4 in	0	3.6 [36.7]	4.15 [42.3]	NC	0.04
VPV-202DQ50	1.9	0.09	1/4 in	0	2.75 [28]	4.15 [42.3]	NC	0.04
VPV-603D	5.8	0.65	5/16 in	0.005 [0.05]	3.6 [36.7]	4.15 [42.3]	NC	0.08
VPV-803DQ50	7.8	1.5	3/8 in	0.01 [0.1]	2.75 [28]	4.15 [42.3]	NC	0.14
VPV-1204DQ50	11.0	3.0	1/2 in	0.015 [0.15]	2.75 [28]	4.15 [42.3]	NC	0.26

Function: NO = normally open; the valve closes when energized. NC = normally closed; the valve opens when energized. Pressure values are shown as MPa [kgf/cm²].

2. Electrical Ratings

Series	Available rated voltages (AC)	Frequency	Voltage tolerance	Holding VA	Starting VA	Power input (W)	Insulation	Mass (kg)
NEV	24, 100, 110, 120, 200, 220, 230, 240 V	50/60 Hz	±10%	11 / 9	33 / 27	7 / 6	Class B	0.14
TEV	100, 200, 220, 240 V	50/60 Hz	±10%	9 / 7	22 / 16	5 / 4	Class B	0.10
VPV	100, 200, 220, 230, 240 V	50/60 Hz	±10%	13 / 10	36 / 30	8 / 7	Class B	0.14

Slash-separated electrical values are listed as 50 Hz / 60 Hz. Coil current can be estimated as apparent power (VA) ÷ rated voltage (V).

3. Dimensional Drawings

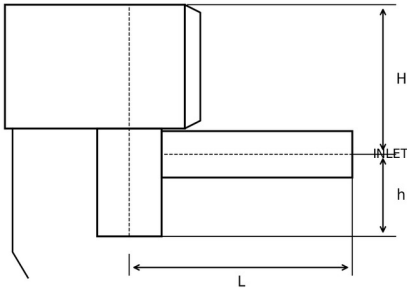


Fig. 1

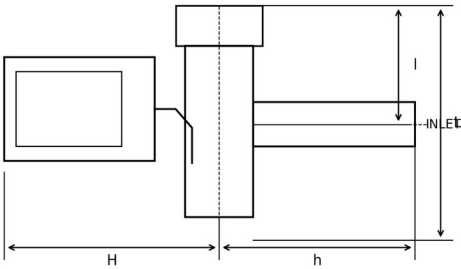


Fig. 2

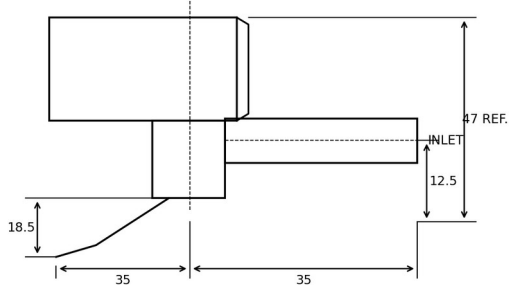


Fig. 3

4. Dimensions and Model Cross-Reference

Source dimensional designation	Applicable listed model(s)	L	H	h	I	Figure
VPV-122D	VPV-122D	35	43	33	-	Fig. 1
VPV-152D	VPV-152D	35	43	33	-	Fig. 1
VPV-202D	VPV-202DQ50*	35	43	33	-	Fig. 1
NEV/VPV-603D	NEV-603DXF; VPV-603D	36.5	55	36	-	Fig. 1
NEV/VPV-803D	NEV-803DXF; VPV-803DQ50*	41.5	53.5	38.5	22.5	Fig. 2
NEV/VPV-1204D	NEV-1204DXF; VPV-1204DQ50*	61.5	57.5	61.5	28.5	Fig. 2
NEV/VPV-L202D	NEV-L202DXF; VPV-L202D	-	-	-	-	Fig. 3
TEV-1220D	TEV-1220D	35	40	33	-	Fig. 1
TEV-1620DQ2	TEV-1620DQ2	35	40	33	-	Fig. 1
TEV-1920D	TEV-1920D	35	40	33	-	Fig. 1
Not specified in source	NEV-152DXF; NEV-202DXF	-	-	-	-	-

Dimensions are in mm. Fig. 3 fixed references: 35 mm on each side of the valve centerline, 47 mm overall height (reference), 12.5 mm inlet center height, and 18.5 mm lead reference. *The supplied dimensional table uses the base designations VPV-202D / 803D / 1204D; Q50 suffix variants are cross-referenced for envelope reference. Confirm a suffix-specific drawing when required.