NRD Specifications

NRD-	12	T	E	24	-	N	S
	1	2	3	4		5	6

1 Pump size 05, 08, 08Z, 12, 20, 30, 40, 40X

2 Bearing material T: Filled PTFE

3 O ring material V: FKM E: EPDM

4 Power source voltage 24: 24VDC
48: 48VDC Note: Exclusive for NRD-40/40X

5 Connection No code: Tube
R: R thread
N: NPT thread
G: G thread Note: Exclusive for NRD-40/40X

6 Base No code: Left and right direction mounting type
(Left-to-right direction when viewed from pump front)
S: Custom type

RD Specifications

RD -	40	E	24	-	H		V
	1	2	3		4	5	6

1 Pump size 40, 40X

2 O ring material V: FKM E: EPDM

3 Power source voltage 24: 24VDC

4 Liquid Temperature range H: High Liquid Temperature (0 – 80°C)

5 Connection No symbol: Hose
R1: R Thread
N1: NPT thread

6 Input signal V: 1 – 5VDC

Model	Connection sizes		Max flow GPM (L/min)	Max head FT (m)	Max Specific Gravity	Motor		Weight lbs (kg)
	Suction Inches (mm)	Discharge Inches (mm)				Power (V)	Rated output (W)	
NRD-05	0.55 (14)	0.31 (8)	1.3 (5.1)	13.5 (4.1)	1.07	DC24	6	0.9 (0.4)
	R 3/8	R 1/8						
	3/8 NPT	1/8 NPT						
NRD-08	0.55 (14)	0.31 (8)	2.1 (7.9)	37.7 (11.5)	1.07	DC24	22	0.9 (0.4)
	R 3/8	R 1/8						
	3/8 NPT	1/8 NPT						
NRD-08Z	0.55 (14)	0.31 (8)	2.1 (8.0)	62.3 (19)	1.07	DC24	33	0.9 (0.4)
	R 3/8	R 1/8						
	3/8 NPT	1/8 NPT						
NRD-12	0.71 (18)	0.71 (18)	3.6 (13.6)	24.3 (7.4)	1.07	DC24	17	0.9 (0.4)
	R 3/8	R 3/8						
	3/8 NPT	3/8 NPT						
NRD-20	0.83 (21)	0.67 (17)	5.2 (19.5)	27.9 (8.5)	1.0	DC24	28	2.6 (1.2)
	R 1/2	R 3/8						
	1/2 NPT	3/8 NPT						
NRD-30	0.83 (21)	0.67 (17)	6.2 (23.5)	36.1 (11)	1.0	DC24	45	2.6 (1.2)
	R 1/2	R 3/8						
	1/2 NPT	3/8 NPT						
RD-40	1 (25)	0.75 (19)	6.6 (25)	49.2 (15)	1.0	DC24	85	3.3 (1.5)
	1 NPT	1/2 NPT						
RD-40X	1 (25)	1 (25)	18.5 (70)	26.2 (8)	1.0	DC24	72	3.3 (1.5)
	1 NPT	3/4 NPT						
NRD-40	1.06 (27)	0.82 (21)	6.6 (25)	49.2 (15)	1.0	DC48	85	3.3 (1.5)
	R1	R1/2						
	1 NPT	1/2 NPT						
	G1 · 1/2	G1 · 1/4						
NRD-40X	1.06 (27)	0.82 (21)	18.5 (70	26.2 (8)	1.0	DC48	72	3.3 (1.5)
	R1	R1/2						
	1 NPT	1/2 NPT						
	G1 · 1/2	G1 · 1/2						

Notes:

1. Performance data is based on pumping clear water at ambient temperature.
2. Max. flow based on discharge pressure of 0 psi and max. head based on operating pump at shut-off.
3. The viscosity limit of the working fluid is up to 1.0 mPa·s (with specific gravity of 1.07 for the NRD-05/08/08Z/40/40X and 1.0 for the NRD-20/30, RD-40/40X).
4. Ambient installed temperature range: 32 - 122 °F (0 - 50 °C) for NRD-05/08/12/20/30/40/40X, 32 - 104°F (0 - 40°C) for NRD-08Z, RD-40/40X.
5. Working liquid temperature range: 32 - 176°F (0 - 80 °C) for NRD-05/08/12/20/30/40/40X and RD-40/40X, 32 - 104°F (0 - 50°C) for NRD-08Z.
6. Max. specific gravity is the value at maximum flow.
7. 12VDC option available for OEM applications. Contact Iwaki America for details.
8. Motor specifications:

   Pumps use a DC brushless motor equipped with the following protective functions in drive circuitry:

   a. Protection against jammed impeller.
      Drive circuitry will detect locked impeller and stop the pump.

   b. Excessive temperatures.
      The pump will stop when the motor temperature increases beyond rated temperature as a result of elevated fluid temperature or installed environment temperature.

   c. Over current protection.
      The drive circuitry is protected against excessive current

   d. Fuse
      NRD's are equipped with internal fuse to protect pump form overheating or causing damage to system when drive circuit has been damaged. The built-in fuse cannot be replaced, so, we recommend use of an external fuse.

   Performance and dimensions of pumps may be changed without prior notice.