



## RD Specifications

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RD - 

12	T	E	24	-			N1	V	12
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1    2    3    4    5    6    7    8

- 1 Pump size**    05, 05H, 12, 12Z, 20, 30
- 2 Bearing material**  
 No symbol: PPS with filler for RD-05 & 05H  
 PTFE with filler for RD-20 & 30  
 T: PTFE
- 3 O ring material**  
 V: FKM (as an option on RD-12/12Z)  
 E: EPDM
- 4 Power source voltage**    24: 24VDC  
 12VDC option available for OEM applications, contact Iwaki America for details.

RD-12/12Z/30 only

**5 Liquid Temperature Rating**  
 No Symbol: 0 - 40 °C (RD-12, 12Z 0-60°C)  
 05: 60°C  
 H: High temperature 0 – 80°C

**6 Connection (Allowable pressure)**  
 No symbol: Hose  
 N1: NPT thread (excluding RD-05, 05H, 20, 30)  
 N2: NPT thread (allowable pressure 0.6 MPa excluding RD-05, 05H, 20, 30)

**7 Input signal**    V: 1 – 5VDC

**8 Motor Size** (excluding RD-05, 05H, 20, 30)  
 12: 12W (RD-12)                    14: 14W (RD-12Z)

RD - 40 E 24 - H   V

1      2      3                      4      5      6

- 1 Pump size**            40, 40X
- 2 O ring material**    E: EPDM                      V:FKM
- 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	Connections (Hose)		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)	
RD-05	0.55 (14)	0.32 (8)	1.2 (4.7)	11.8 (3.6)	1.0	DC24	4.4	0.9 (0.4)
RD-05H	0.55 (14)	0.32 (8)	2.1 (7.9)	36.1 (11)	1.0	DC24	18	1.1 (0.5)
RD-12	3/8 NPT 0.71 (18)		3.4 (12.7)	22.3 (6.8)	1.0	DC24	12	1.3 (0.4)
RD-12Z	3/8 NPT 0.71 (18)	1/4 NPT 0.4 (10)	1.0 (3.8)	34.4 (10.5)	1.0	DC24	14	1.3 (0.4)
RD-20	0.71 (18)		5.2 (19.5)	30.5 (9.3)	1.0	DC24	28	2.9 (1.3)
RD-30	0.71 (18)		6.2 (23.5)	37.7 (11.5)	1.0	DC24	45	2.9 (1.3)
RD-40	1 NPT 1 (25)	3/4 NPT 0.75 (19)	6.6 (25)	49.2 (15)	1.0	DC24	85	3.3 (1.5)
RD-40X	1 NPT 1 (25)	1 NPT 1 (25)	18.5 (70)	26.2 (8)	1.0	DC24	72	3.3 (1.5)

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. Max. allowable viscosity of liquid (at specific gravity 1.0): 1 cP (1mPa-s).
4. Ambient installed temperature range: 32 – 104 °F (0 - 40 °C).
5. Max. specific gravity is the value at maximum flow.
6. 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 ( Note, RD-05 has no over current protection because of its low output).
    - d. Fuse  
RD's are equipped with internal fuse to protect pump from 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.