

4RH and 4RHX (Explosion-Proof)

4" Non-clog Wastewater Pumps
Standard (4RH) and Explosion-Proof (4RHX) Construction



APPROVED
(4RHX only)

- Pumping action is by vortex; solids can't get caught in impeller volute.
- Operates without vibration or cavitation over entire performance curve. Operates near shut-off without harming pump.

DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE.

- Recessed impeller greatly increases bearing life by reducing radial load.
- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- Heat sensor thermostats imbedded in windings protect motor from over heat conditions.
- Seal leak probes warn of moisture entry; helps prevent costly motor burn-out.

AVAILABLE WITH OPTIONAL F.M. APPROVAL FOR USE IN CLASS 1, GROUPS C AND D HAZARDOUS LOCATIONS (4RHX ONLY).

PRODUCT CAPABILITIES

Capacities To	450 GPM	28.4 L/S
Heads To	130 ft.	39.5 m
Solids Handling Capacity	3 in. dia.	76 mm dia.
Liquids Handling	raw unscreened sewage, fibrous wastewater, effluent, storm water	
Intermittent Liquid Temp.	up to 140°F	up to 60°C
Winding Insulation Temp. (Class H)	356°F	180°C
Available Motors	3450 RPM 7½-15 HP, 200, 230, 460, 575 volts, 3 phase, 60 Hz 20 HP, 230, 460, 575 volts, 3 phase, 60 Hz	
Std. Third Party Approvals	CSA	
Optional Approvals	FM, Class 1, Groups C & D (4RHX only)	
Acceptable pH Range	6-9	
Specific Gravity	9-1.1	
Viscosity	28-35 SSU	
Discharge, Horizontal	4 in.	101.6 mm
Flanged Centerline	125 lb. ANSI	

NOTE: Consult factory for applications outside of these recommendations.

Construction Materials	
Motor Housing, Seal Housing, Cord Cap and Volute Case	cast iron, Class 30 ASTM A48
Recessed, Impeller	ductile iron, Class 65 ASTM A536
Power and Control Cord	25 ft. SOW/SOW-A
Mechanical Seals	double tandem, type 21
Standard	carbon and ceramic
Optional	lower tungsten, carbide
Pump, Motor Shaft	416 SST
Fasteners	300 Series SST

WHERE INNOVATION MEETS TRADITION

THE 4RH AND 4RHX (EXPLOSION-PROOF) SUBMERSIBLE WASTEWATER PUMPS ARE THE RIGHT CHOICE WHEN DIFFICULT TO PUMP FIBEROUS OR STRINGY SOLIDS ARE TO BE EXPECTED. The 4RH/4RHX series provides smooth, vibration-free operation when operating at heads higher than peak efficiency. For use in municipal lift stations, treatment plants and industrial waste applications. Myers offers a complete line of wastewater pumps, lift-out rail assemblies, controls and accessories to meet your needs. Call your Myers distributor, or the Myers Ohio sales office at 419/289-1144 for more details.

ADVANTAGES BY DESIGN

PASSES STRINGY TRASH, FIBEROUS WASTES, SLURRIES, AND OTHER DIFFICULT TO PUMP SOLIDS THAT STANDARD ENCLOSED OR SEMI-OPEN IMPELLERS CAN NOT.

- Recessed impeller design has completely open passage in volute.

Myers®

Pentair Pump Group

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4" Non-clog Wastewater Pumps
Standard (4RH) and Explosion-Proof (4RHX) Construction

POWER & CONTROL CORDS

SOW-A, UL and CSA
approved oil-resistant
cable.

CABLE ENTRY SYSTEM

Provides double seal
protection. Cable jacket
sealed by compression
grommet. Individual wires
sealed by epoxy potting.

HEAT SENSOR

Protects motor from burn-
out due to excessive heat
from any overload condition.
Automatically resets when
motor has cooled.

STATOR

Heat shrunk into housing
for perfect alignment and
best heat transfer. Oil-filled
motor conducts heat and
lubricates bearings.

BALL BEARINGS

Upper and lower ball
bearings support shaft and
rotor and take axial and
radial loads.

SHAFT SEALS

Double tandem mechanical
shaft seals protect motor.
Oil-filled seal chamber pro-
vides continuous lubrication.

SEAL LEAK PROBES

Detect water in seal housing.
Activates warning light in
control panel.

SLEEVE BEARING

Takes radial shock load;
provides flame path.

HEAVY 416

SST SHAFT
Corrosion
resistant.

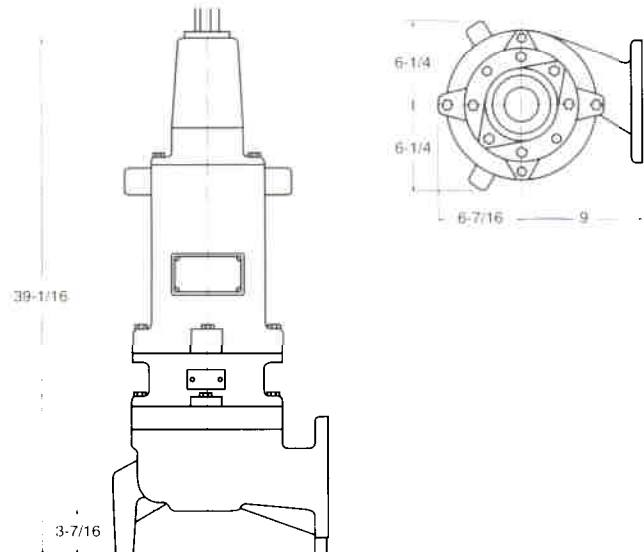
VOLUTE CASE

Handles 3"
solids. Com-
pletely open
from inlet to
discharge. 4"
ANSI 125 lb.
flange.

RECESSED IMPELLER

Handles stringy trash and
slurries without clogging or
binding. Pump out vanes help
keep trash from seal; reduces
pressure at seal faces.

DIMENSIONS



PERFORMANCE CURVE

