DOVER
FUELING SOLUTIONS

Dispenser Technology – Wayne Helix 5000-II

Model Overview

Apr-2022

DFS *Worldwide* Brands

Wayne OPW ClearView
TOKHEIM ProGauge fairbanks

DOVER FUELING SOLUTIONS

Our Mission

WE ARE

OUR VALUES

A Collaborative Entrepreneurial Spirit

Winning Through Customers

Engaging in High Ethical Standards, Openness and Trust

Fostering Expectations for Results

Respecting and Valuing People

WE ARE

OUR VISION

Enabling the evolution of consumer experience in fueling and convenience retail.

WE ARE

OUR MISSION

A leading global provider of advanced customer-focused technologies, services and solutions in the fuel and convenience retail industries.

DOVER FUELING SOLUTIONS

WE ARE

OUR CULTURE

A team committed to doing great things, collaborating to deliver exceptional business results for our customers. We are accountable, results driven and create value, through innovation, continuous improvement and execution excellence.

WE ARE

CULTIVATING EXCELLENCE

Aligned

Accountable

Engaged

Problem Solvers

Customer-Centric

Celebratory in Success

Execution Champions

DFS *Worldwide* Brands

Wayne FUELING SYSTEMS · OPW FUEL MANAGEMENT SYSTEMS · ClearView · TOKHEIM · ProGauge · fairbanks

Wayne
Dispenser Technology

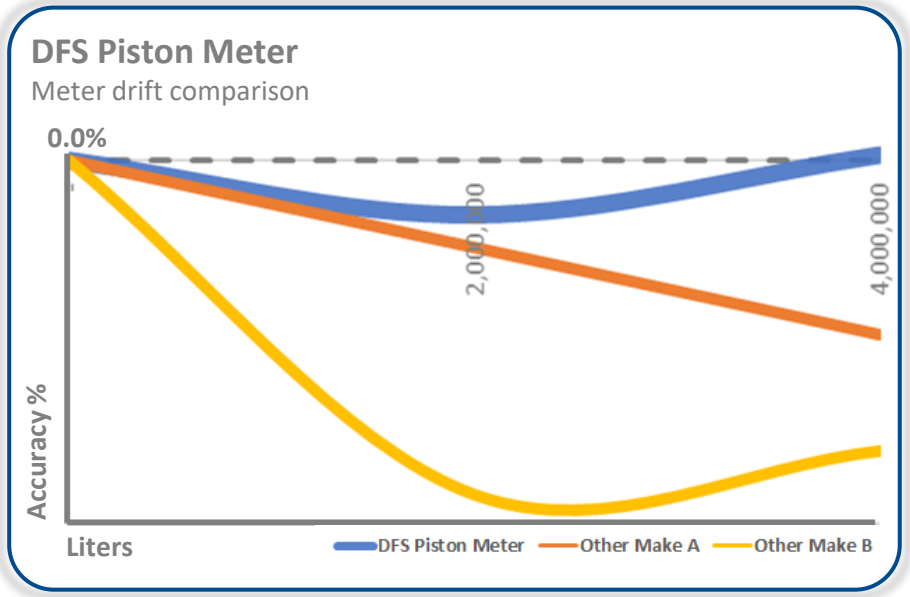
Proven Reliability

Designed with field-proven global components and corrosion resistant materials, Wayne fuel dispensers offer exceptional reliability

- Strong corrosion protection from high quality materials & design without welded corners
- Assembled to the highest standard with rigorous testing & quality control
- Designed with leading pumping technology using gear pump
  for reliable longevity
- Superior uptime in field, with reliable operation from long-lasting components
- Better total cost of ownership from less service required during lifetime

Designed for superior stability and accuracy over the lifetime of the dispenser, our fuel meter ensures accurate metering in all conditions

- Robust meter for optimal performance in all conditions
- Technology leadership with exceptional stability with minimal drift of 0.04% over 8 million liters
- Certified accuracy with meter performance verified by independent test lab
- Electronic calibration and industry-best resolution of 400 pulses per liter for accuracy across all flow rates
- Better total cost of ownership from minimal drift, reliable performance and minimal recalibration requirement



Safety First

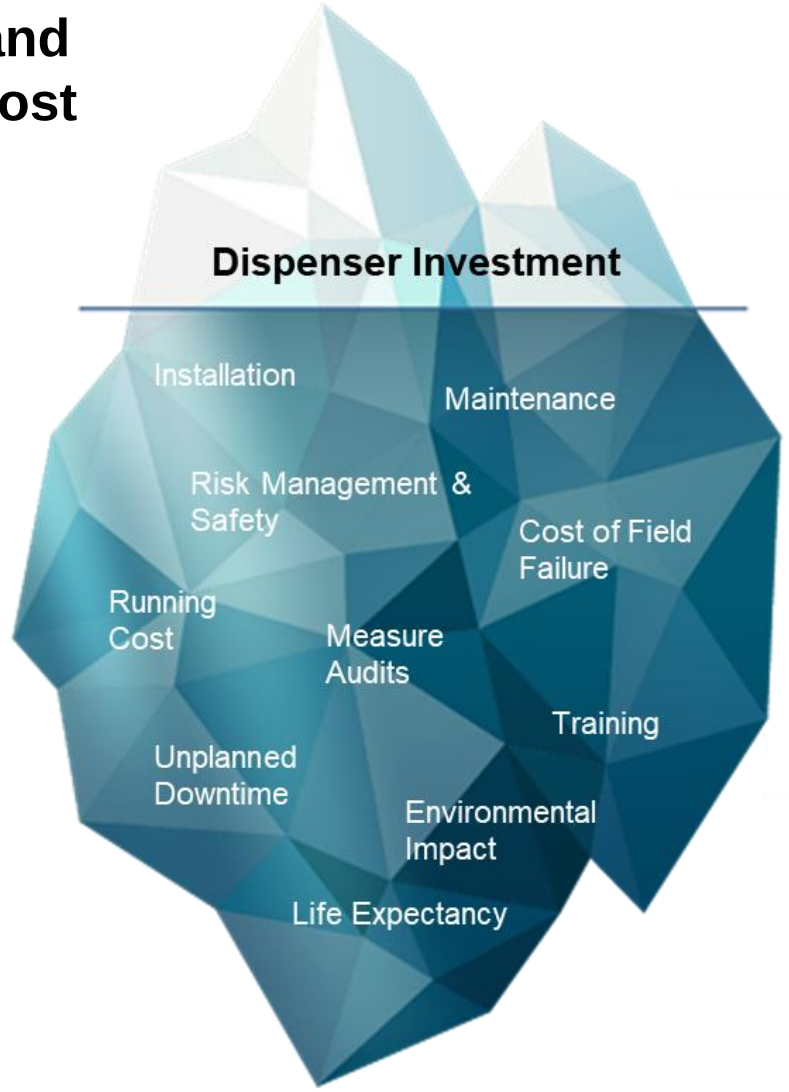
Designed with safety in mind, from assembly to installation and daily operation, Wayne fuel dispensers come with intelligent safety features as standard

- Safety-focused design that avoids working at height for expected service interventions like hose replacements due to natural wear
- Patented double-bump pipe couplings minimize faulty assembly for secured seal
- Ergonomically optimized positioning of nozzles to ensure DDA compliance
- Better total cost of ownership from less service with improved protection against leaks over lifetime

Total Cost of Ownership

Modern intelligent design that provides accurate metering and a long lifetime with less service interventions for low total cost of ownership. Technology leadership to the Core!

- Built to last with durable design using field-proven components that require less service
- Strong corrosion protection to ensure a long lifetime
- Robust design with single bottom-frame & strong chassis for improved structural framework
- Reliable operation from accurate metering and stable field-proven electronics
- Better total cost of ownership from intelligent design with fewer parts wearing over lifetime



Wayne Helix 5000-II

Dispenser Technology

Reliability through Technology Leadership

Wayne fuel dispensers are known for its leading technology in all core components.

Reliability
Continuously raising the bar with innovation and intelligent design, our field-proven core components are recognized for its superior technology delivering reliable performance

Total Cost of Ownership
Our modern design offers superior reliability, accurate metering and a long lifetime with less service interventions for low total cost of ownership.

Technology leadership to the Core!

Innovative design offering reliable performance, exceptional meter stability and a long life with less service interventions for low total cost of ownership.

Wayne Dispensers

Model Portfolio

Based on our global technology platform, Wayne fuel dispensers are recognized for innovation, reliability and great versatility, offering almost endless configuration possibilities

Conventional Fuel


Century 3

H4000 II


H5000 II


H6000 II


H6000 II Additive

AdBlue


Century 3 AdB


H6000 II AdB


H6000 II B2B AdB

LPG


Century 3 LPG


H6000 II LPG


H6000 II B2B LPG

CNG


H6000 II CNG


H6000 II B2B CNG

Wayne Helix 5000-II

Nomenclature

Wayne Helix 5000-II

Nomenclature

New Naming Convention

Name	Model Nomenclature							
H5000-II	x	-	x	-	x		xyz	
	Number of grades available		Total number of nozzles		Columns with an Active hose		Denomination of type (other than standard)	

- High Speed (HS) 70 LPM is available as option (not special model config)
- High Speed 40-70 LPM switching is available as option (not special model config)

Helix 5000-II 4-8-4

Wayne Helix 5000-II

Conventional Fuels – Model Details

Wayne Helix 5000-II

Model Overview

Wayne technology with true modularity for up to four grades with choice of hose retraction and nozzles positioned on either side of the dispenser head

Helix 5000-II
Orientation: Lane (Dual-sided or Single-sided)
Hydraulic System: Suction or Remote Pressure
Grades available: 1 to 4 (5 with blending)
Nozzles available: 1 to 4
Flow Rates[a] available: 40, 40-70, 70, or 120 LPM
Hose Reach: 4.0m with FHR, 3.5m with LHR
Electronics: iGEM pump computer
Metering: P-Meter (Piston) or Xflo. Optional ATC
Vapour Recovery: EVR or SC-EVR options
Options: Extensive range of optional extras available
Pump Media: 12” Digital screen for T-Media available
Payment: Integrated payment options available

a) Flow rates are indicative as actual flow rates depends on the underground fuel installation. Actual flow rates can vary +/- 10% from nominal flow rates.

	Length	Width	Height
H5000-II 1-X-1	1298[b]	669	2268[c]
H5000-II 2-X-2	1298[b]	669	2268[c]
H5000-II 3-X-3	1298[b]	669	2268[c]
H5000-II 4-X-4	1298[b]	669	2268[c]

b) Length 1328 with valence
c) Height 2368 with valence

Wayne Helix 5000-II

Conventional Fuels – Model Details

Model Configurations (Standard Flow)

Helix 5000-II	Nomenclature	Model Characteristics	H5000
1-1-1	1 Grade Out, 1 Nozzle, 1 Hose column	Lane orientation, single-sided. Single delivery 40. 1 Inlet, 1 Hydraulic position	11-11 (SS)
1-2-1	1 Grade Out, 2 Nozzle, 1 Hose column	Lane orientation, single-sided. Dual delivery 40/40. 2 SAT A+B (70LPM). 1 Inlet, 1 Hydraulic position	11-11 (DS)
2-2-2	2 Grades Out, 2 Nozzles, 2 Hose columns	Lane orientation, single-sided. Single delivery 40/40. 2 Inlets, 2 Hydraulic positions	22-22 (SS)
2-4-2	2 Grades Out, 4 Nozzles, 2 Hose columns	Lane orientation, dual-sided. Dual delivery 40/40+40/40. 2 Inlets, 2 Hydraulic positions	22-22 (DS)
3-3-3	3 Grades Out, 3 Nozzles, 3 Hose columns	Lane orientation, single-sided. Single delivery 40/40/40. 3 Inlets, 3 Hydraulic positions	33-33 (SS)
3-6-3	3 Grades Out, 6 Nozzles, 3 Hose columns	Lane orientation, dual-sided. Dual delivery 40/40/40+40/40/40. 3 Inlets, 3 Hydraulic positions	33-33 (DS)
4-4-4	4 Grades Out, 4 Nozzles, 4 Hose columns	Lane orientation, single-sided. Single delivery 40/40/40/40. 4 Inlets, 4 Hydraulic positions	44-44 (SS)
4-8-4[a]	4 Grades Out, 8 Nozzles, 4 Hose columns	Lane orientation, dual-sided. Dual delivery 40/40/40/40+40/40/40/40. 4 Inlets, 4 Hydraulic positions	44-44 (DS)

Retail Speed suction use retail capacity (RC) pumping unit

- High Speed (HS) 70 LPM is available as option
- High Speed 40-70 LPM switching is available as option

a) Available with special inlet positions for replacement of legacy BP models

Flow rates are indicative as actual flow rates depends on the underground fuel installation. Actual flow rates can vary +/- 10% from nominal flow rates.

Model Configurations (Very High Speed Flow)

Helix 5000-II	Nomenclature	Model Characteristics	H4000
1-1-1 1VHS-S	1 Grade Out, 1 Nozzle, 1 Hose column	Lane orientation, single-sided. Single delivery 120. 1 SAT A/B. 2 Inlets, 2 Hydraulic positions	11-21 (SS)
1-2-1 1VHS-nS	1 Grade Out, 2 Nozzles, 1 Hose column	Lane orientation, dual-sided. Dual delivery 120*+120*. 2 SAT A+B. 2 Inlets, 2 Hydraulic positions	11-21 (DS)
1-2-1 1VHS-S	1 Grade Out, 2 Nozzles, 1 Hose column	Lane orientation, dual-sided. Dual delivery 120+120. 2 SAT A+B. 2 Inlets, 2 Hydraulic positions	11-31 (DS)
1-2-2 1VHS-S	1 Grade Out (1 shared), 2 Nozzles, 2 Hose columns	Lane orientation, single-sided. Single delivery 120/40. 2 Inlets, 2 Hydraulic positions	11-22 (SS)
1-4-2 1VHS-nS	1 Grade Out (1 shared), 4 Nozzles, 2 Hose columns	Lane orientation, dual-sided. Dual delivery 120*/40+120*/40. 2 Inlets, 2 Hydraulic positions	11-22 (DS)
1-4-2 1VHS-S	1 Grade Out (1 shared), 4 Nozzles, 2 Hose columns	Lane orientation, dual-sided. Dual delivery 120/40+120/40. 2 SAT A+B. 2 Inlets, 2 Hydraulic positions	11-31 (DS)

Very High Speed applications will use combination of RC & HC pumping units

- 1VHS-S will deliver 120 LPM also when both sides are in use simultaneously
- 1VHS-nS will deliver 90 LPM when both sides are in use simultaneously, but 120 LPM when used singularly. 120* = non-simultaneously

Flow rates are indicative as actual flow rates depends on the underground fuel installation. Actual flow rates can vary +/- 10% from nominal flow rates.

Model Configurations (Very High Speed Flow)

Helix 5000-II	Nomenclature	Model Characteristics	H6000
2-2-2 1VHS-S	2 Grades Out, 2 Nozzles, 2 Hose columns	Lane orientation, single-sided. Single delivery 120/40. 1 SAT A/B. 3 Inlets, 3 Hydraulic positions	22-32 (SS)
2-4-2 1VHS-nS	2 Grades Out, 4 Nozzles, 2 Hose columns	Lane orientation, dual-sided. Dual delivery 120*/40+120*/40. 2 SAT A+B. 3 Inlets, 3 Hydraulic positions	22-32 (DS)
2-4-2 1VHS-S	2 Grades Out, 4 Nozzles, 2 Hose columns	Lane orientation, dual-sided. Dual delivery 120/40+120/40, 2 SAT A+B. 3 Inlets, 3 Hydraulic positions	N/A
3-3-3 1VHS-S	2 Grades Out (1 shared), 3 Nozzles, 3 Hose columns	Lane orientation, single-sided. Single delivery 120/40/40. 4 Inlets, 4 Hydraulic positions	33-43 (SS)
3-6-3 1VHS-nS	2 Grades Out (1 shared), 6 Nozzles, 3 Hose columns	Lane orientation, dual-sided. Dual delivery 120*/40/40+120*/40/40. 4 Inlets, 4 Hydraulic positions	33-43 (DS)
3-6-3 1VHS-S	2 Grades Out (1 shared), 6 Nozzles, 3 Hose columns	Lane orientation, dual-sided. Dual delivery 120/40/40+120/40/40. 4 Inlets, 4 Hydraulic positions	N/A

Very High Speed applications will use combination of RC & HC pumping units

- 1VHS-S will deliver 120 LPM also when both sides are in use simultaneously
- 1VHS-nS will deliver 90 LPM when both sides are in use simultaneously, but 120 LPM when used singularly. 120* = non-simultaneously

Flow rates are indicative as actual flow rates depends on the underground fuel installation. Actual flow rates can vary +/- 10% from nominal flow rates.

Model Configurations (Blend)

Helix 5000-II	Nomenclature	Model Characteristics	H5000
4-4-2 BLD	4 Grades Out, 4 Nozzles, 2 Hose columns	Lane orientation, dual-sided. Dual delivery 40/40/+40/40/40. 3 Hydraulic positions	**34-32 (DS)**
5-4-2 BLD	5 Grades Out, 4 Nozzles, 2 Hose columns	Lane orientation, dual-sided. Dual delivery 40/40+40/40.4 Hydraulic positions	**45-42 (DS)**
4-8-4 BLD	4 Grades Out, 8 Nozzles, 4 Hose columns	Lane orientation, dual-sided. Dual delivery 40/40/40/40+40/40/40/40. 3 Hydraulic positions	**34-34 (DS)**

Retail Speed suction use retail capacity (RC) pumping unit

- High Speed (HS) 70 LPM is available as option
- High Speed 40-70 LPM switching is available as option

Flow rates are indicative as actual flow rates depends on the underground fuel installation. Actual flow rates can vary +/- 10% from nominal flow rates.