

Thank you for joining us today

Neles NDX™ release for sales | North America Channel partner training

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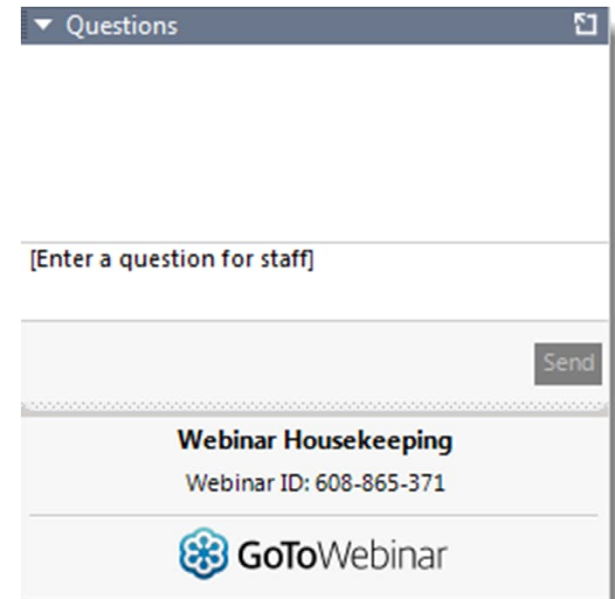
Did you
know?



The NDX has an installed base of
>50,000 units
globally

For today's webinar...

- Technical support:
 - call GoToWebinar at **(833) 851-8340**.
 - If you cannot hear audio through your computer speakers, exit and rejoin the webinar using the telephone access number in your reminder email.
- Ask questions using the **Questions** option on your webinar toolbar.
 - Q&A session at the end of the webinar.
- This webinar will be recorded. The recording and presentation slides in pdf format will be made available in a follow-up email.



Valmet Valve Control and Actuation Portfolio

Neles™ Valve Controllers



NDX™

ValvGuard™

ND9000™

SwitchGuard™

NE700

NP700

Stonel™ Valve Controllers and Limit Switches



Axiom™

Prism™

Quartz™

Eclipse™

Hawkeye™

Valvcon™ Electric Actuators



ADC-Series

Quarterback™

V-series

LC-series

Neles™ & Jamesbury™ Pneumatic Actuators



B1-series

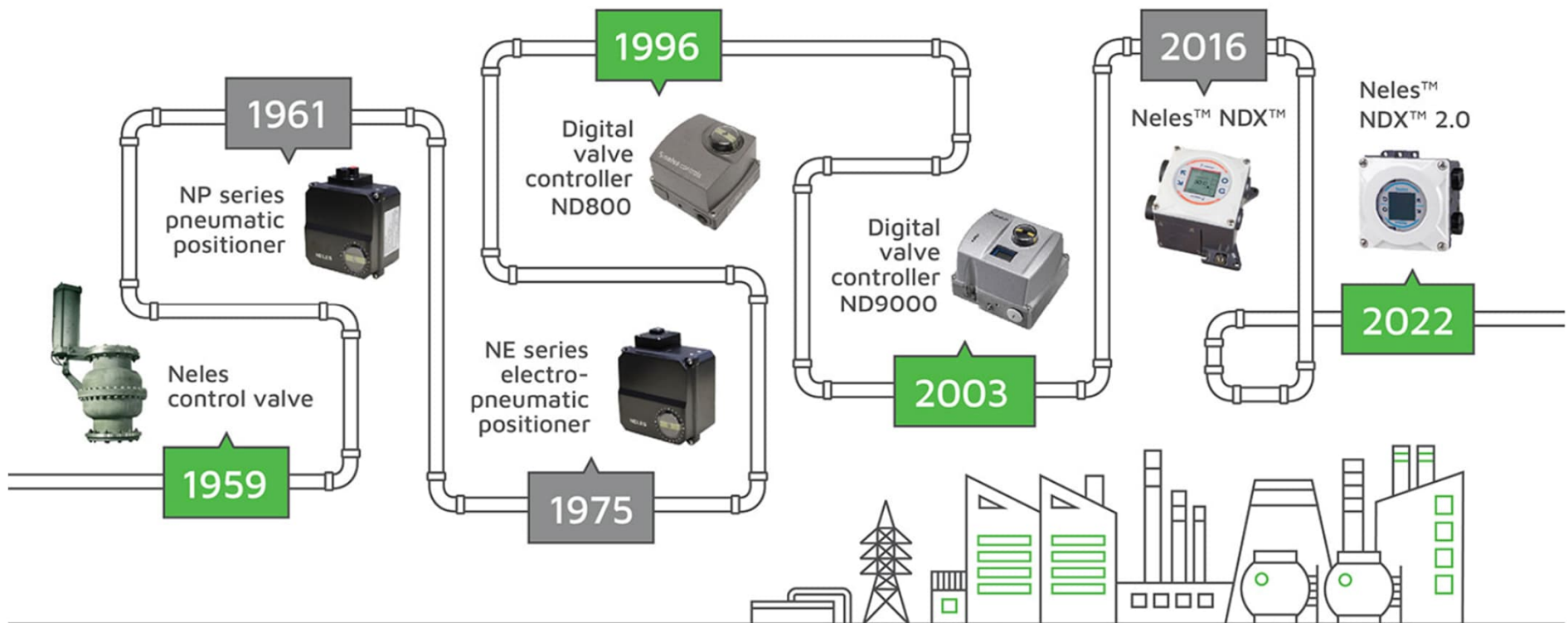
Quadra-Powr™

N1-series

Valv-Powr™



Valmet's Valve Controller History





Neles NDX

Intelligent Valve Controller - Overview

Designed for difficult environments

Neles NDX

Robust enclosures and materials

- 3 enclosure options: compact, standard, and flameproof aluminum enclosures
- IP66 / NEMA 4X



Compact
NDX1510_



Standard
NDX_511_



Explosion-proof
NDX_512_

Challenge

- Corrosive environments
- Extreme temperatures

Solution

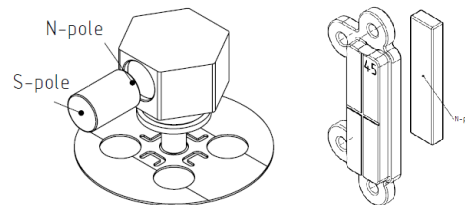
- Robust enclosures and materials

Designed for reliability

Neles NDX

Robust design

- Fully **encapsulated** electronics
- Fully **contactless** magnetic position sensor
 - No wearing mechanical linkages
- **40 µm** air filtration rating
- Standard **tapped exhaust** port can be used as a re-breather



Challenge

- Unplanned shutdowns
- High cost of maintenance or replacement positioners

Solution

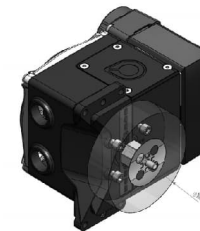
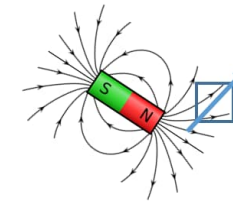
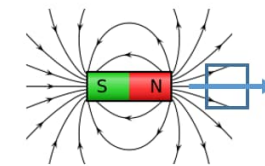
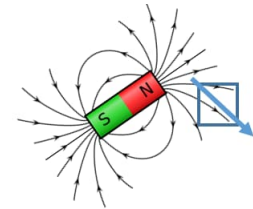
- Robust design

Contactless Position Measurement

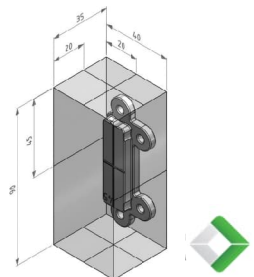
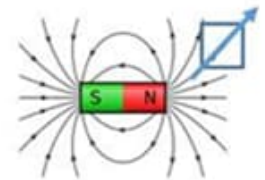
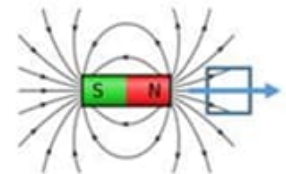
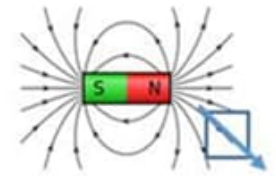
Neles NDX

- Strong neodymium magnet that is brought close to the NDX magnetic field direction sensor.
 - The magnet is hermetically sealed inside of a casing
- The sensor senses the direction of the magnetic field and the sensor's output is varied according to the magnetic field direction
- The same principle is used with rotary magnets but in that case the magnet does not travel past the sensor but rotates on top of it.
- To ensure there is no interference to the position measuring, no magnetic material is allowed to be in the proximity of the position feedback magnet.
 - **Mounting kits of stainless steel or aluminum must be used.**

Rotary



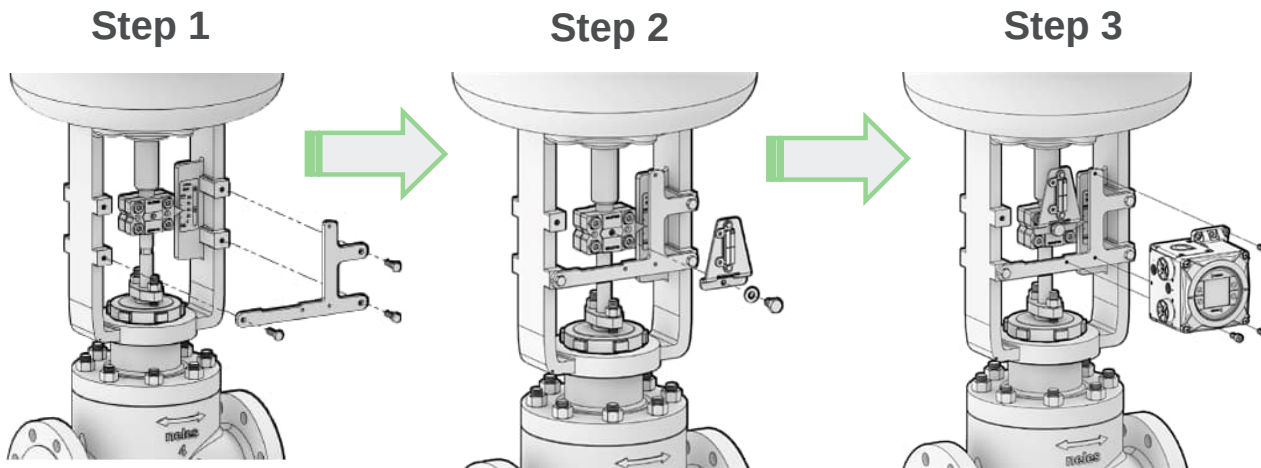
Linear



Designed for simple mounting (linear)

Neles NDX

Mounting in 3 easy steps



[Neles Mounting kit database \(neles.mountingkitsonline.com\)](https://neles.mountingkitsonline.com)

Challenge

- Complicated commissioning
- Failed calibrations

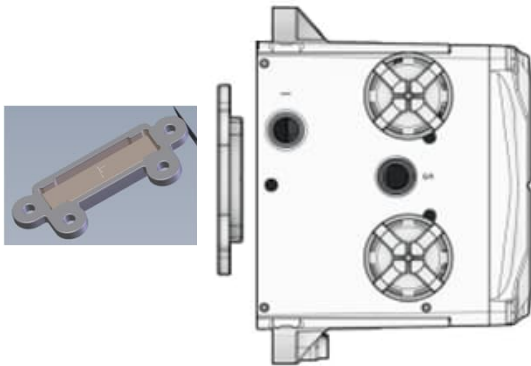
Solution

- Mounting in 3 easy steps

Feedback options based on Stroke Length

Standard Model

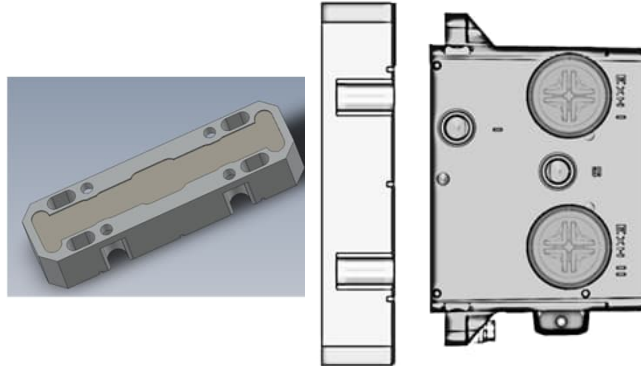
- Stroke Length
 - Standard magnet design
 - 10..120mm (0.4..4.7")



DS51
Normal stroke magnet assembly

Long Stroke Magnet (01/2024)

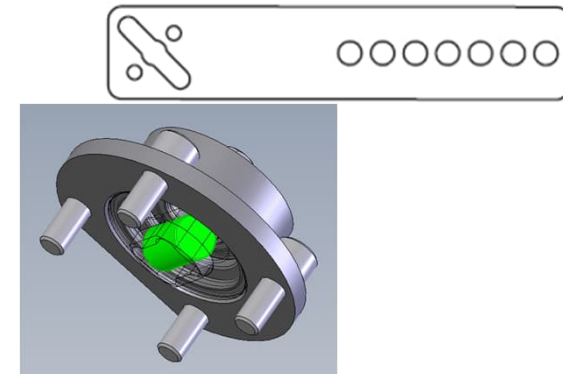
- Stroke Length
 - Long stroke magnet design
 - up to 220mm (8.6")



DS55
Long stroke magnet assembly

Rotary-linear Adapter (01/2024)

- Stroke Length
 - Rotary magnet w/ ball bearings for use with a lever arm.
 - Limited only by the length of the lever arm design.

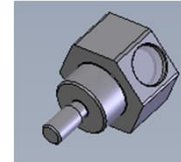


DS54
Rotary-linear adapter assembly

Designed for simple mounting (rotary)

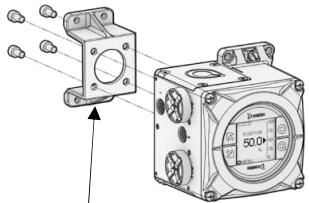
Neles NDX

Mounting in 3 easy steps



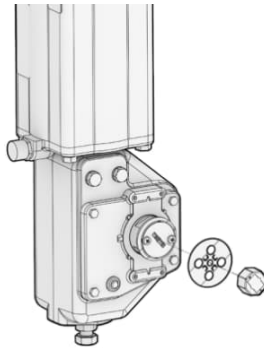
DS52
Rotary magnet assembly

Step 1

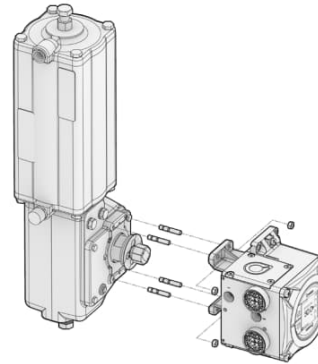


Note: Carbon steel brackets
are not recommended

Step 2



Step 3



Challenge

- Complicated commissioning
- Failed calibrations
- Limited orientations

Solution

- Mounting in 3 easy steps

[Neles Mounting kit database \(neles.mountingkitsonline.com\)](https://neles.mountingkitsonline.com)

Designed for high capacity

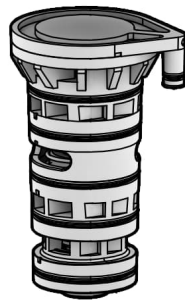
Neles NDX

Large capacity with low consumption

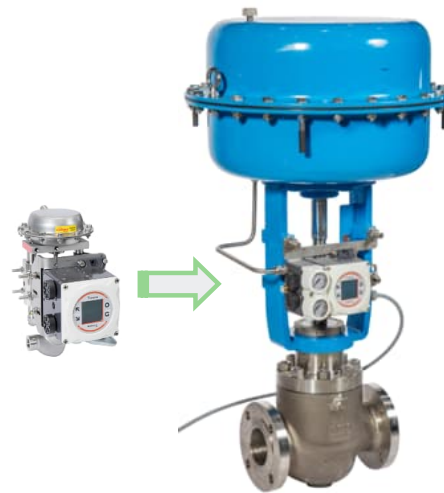
- Capacity: 47 SCFM
 - 10x > piezo; 2x > ND9_06;
- Consumption: 0.06 SCFM
 - 0.04 scfm > piezo; 1/10th ND9_06
- Eliminates the need for most volume boosters or QEVs
- One capacity for all size actuators



Single acting relay
(NDX1_)



Double acting relay
(NDX2_)



Challenge

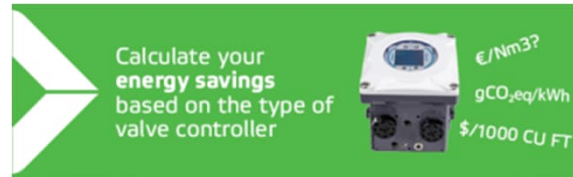
- Additional costs for VBs and QEVs
- Complexity for tuning control with extra instrumentation
- High air consumption

Solution

- Large capacity with low consumption

Designed for sustainability

Neles NDX



- Sustainability is at the core of our offering
- Pneumatic relay of the Neles NDX 2.0 provides a win-win solution for our customers and the environment
- It consumes 80-90% less air than the previous generation valve controllers → This can lead to over \$100k of annual savings in operational expenses at larger plants based on our installed base analysis
 - Through lower air consumption, the Neles NDX 2.0 uses less electricity during its lifecycle which also results in lower carbon dioxide emissions
 - Calculate your savings with our [energy saving calculator](#)
- Decreased air consumption and minimize the need for compressor upgrades during minor plant expansions.

Challenge

- Air consumption costs for pneumatic instruments
- Air compressor requirements for plant expansions

Solution

- Advanced pneumatics with high air capacity and low air consumption

Designed for simple configuration

Neles NDX

Local user interface

- Large LCD display with capacitive buttons
 - Usable through the cover
- Full text w/ guided startup in 10+ languages
- Can be digitally rotated based on installation orientation



Optional but not required

Challenge

- Complicated commissioning
- Additional hardware required for configuration

Solution

- Local user interface

Designed for visibility into your valves

Neles NDX

Onboard diagnostics

- Performance
- Online Valve Signature
- Monitoring
- Event Log
- Offline Testing + Results
- Counters
- Trends (Advanced Diagnostics)
 - Steady State Deviation (all)
- Trends (Premium Diagnostics)
 - See here:
- Valve Position Histogram

Advanced Diagnostics

- 👁 Performance
- 📊 Online Valve Signature
- 👁 Monitoring
- 📋 Event Log
- 🔧 Offline Testing
- 📊 Offline Test Results
- 📋 Counters
- 📈 Trends
- 📈 Valve Position Histogram

Premium Diagnostics

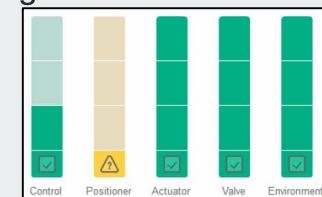
- 👁 Performance
- 📊 Online Valve Signature
- 👁 Monitoring
- 📋 Event Log
- 🔧 Offline Testing
- 📊 Offline Test Results
- 📋 Counters
- 📈 Supply Pressure
- 📈 Travel Ratio
- 📈 Control Ratio
- 📈 Steady State Deviation, C
- 📈 Steady State Deviation, C
- 📈 Steady State Deviation, C
- 📈 Pressure for Opening
- 📈 Stiction
- 📈 Temperature
- 📈 Dynamic Deviation
- 📈 Valve Position Histogram

Challenge

- Lost production
- Decreased performance
- No full asset management system

Solution

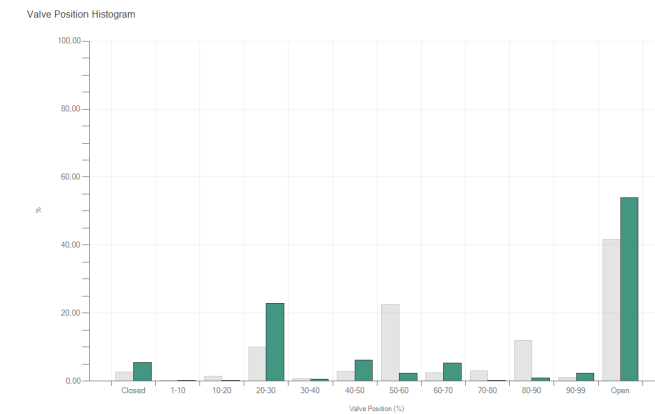
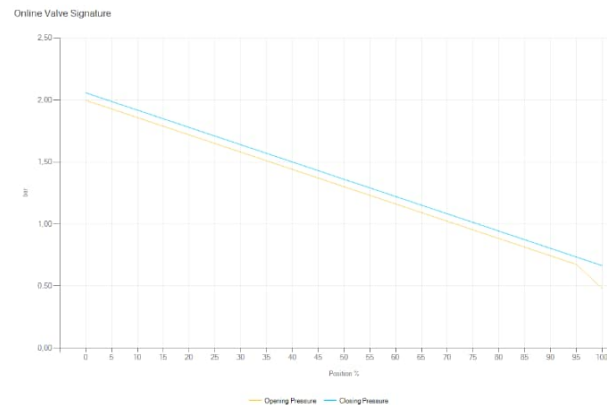
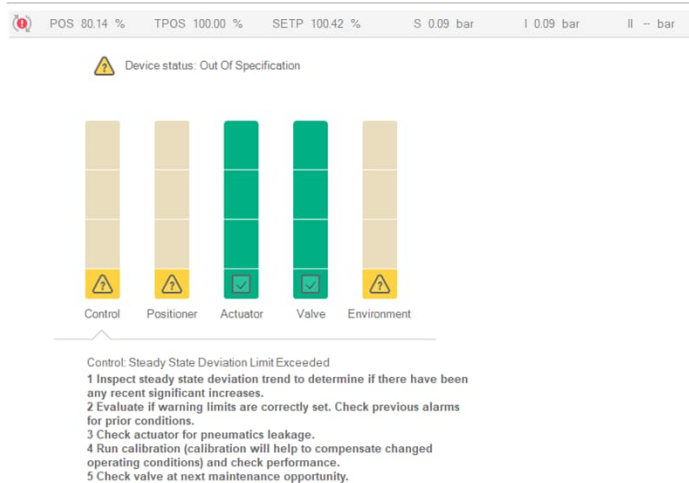
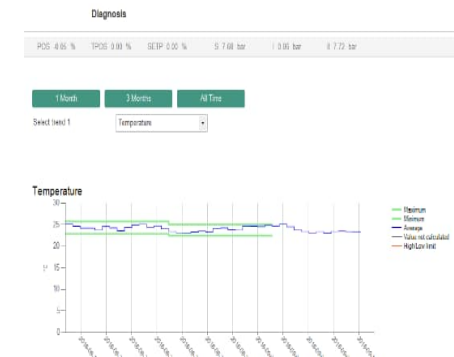
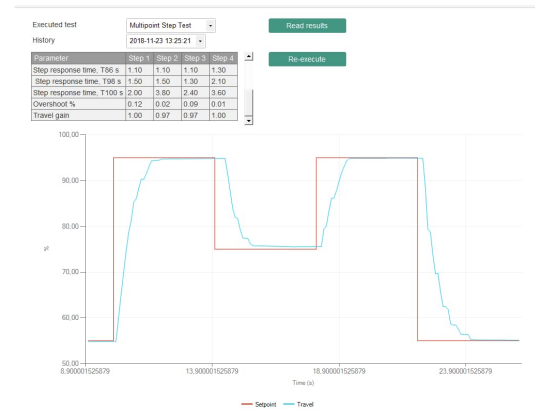
- Standard onboard diagnostics



True online diagnostics

Available in all NDX Premium Diagnostics

- Performance View for easy quick check
- Continuously updated online valve signature
- Historical trends and histograms
- Offline testing and diagnostics counters



Design Features

Neles NDX

Features

Fully encapsulated electrical components w/ pressure and temperature sensors

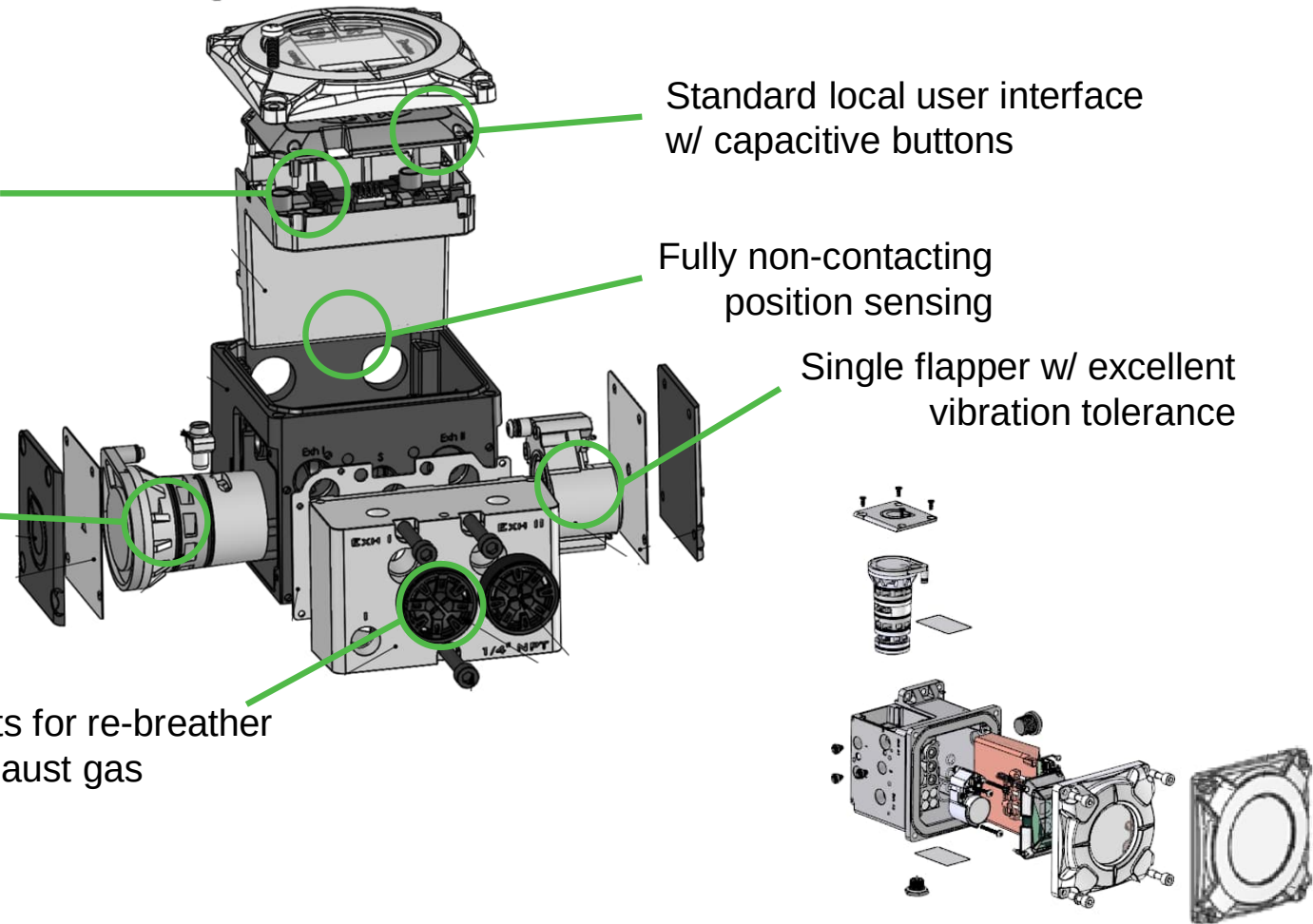
High capacity, low consumption pneumatics rated to 40 micron

Threaded exhaust ports for re-breather or to venting away exhaust gas

Standard local user interface w/ capacitive buttons

Fully non-contacting position sensing

Single flapper w/ excellent vibration tolerance



When to use the ND9000

Selection Criteria

- Explosion proof approvals
- Integrated limit switches – cam activated mechanical or proximity
- Foundation Fieldbus or Profibus PA communication
- Stainless steel housing
- Extreme cold temperatures (-63F / -52C)
- Remote mount position sensor



When to use the NDX

Selection Criteria

- Ideal for linear spring return actuators
- High air capacity for fast stroke times (47.1 SCFM)
- Energy savings with low steady state air consumption (<0.06 SCFM)
- Users who prefer relay-based pneumatics over spool valve designs
- Fully non-contacting position sensing (i.e. no H-clip or lever arm)
- Non-approved or low energy hazardous area requirements
- Re-breather for spring return actuators
- Tapped exhaust port for capturing or venting away exhaust gases



Main technical features - NDX vs ND9

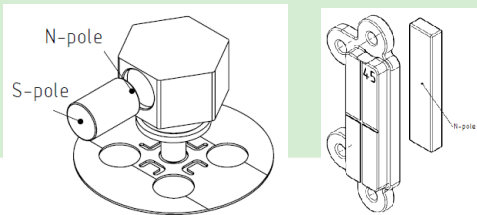
	NDX “Standard”	NDX “Compact”	ND9000
Position Measurement	Magnetic sensor		Hall effect sensor
Pneumatics	Single or double acting relay	Single acting relay	Spool valve
Air Capacity (scfm)	47.1		3.3 / 7.0 / 22.4
Air Consumption (scfm)	0.06		0.35 / 0.35 / 0.60
Air Filtration	40 µm		5 µm
Housing	Aluminum; Ex i / Ex d	Aluminum; Ex i	Aluminum / stainless; Exi / Ex d
Pneumatic Threads	¼” NPT (opt. G1/4)		G1/4 (opt. ¼” NPT)
Electrical Threads	2 x ½” NPT (opt. M20x1.5)		M20x1.5 (opt. ½” NPT)
Communication - HART	HART 6/7 (Default = 7)		HART 6/7 (Default = 6)
Communication - FF	Q3 / 2024	N/A	Yes
Communication - PA	Pending	N/A	Yes
Local User Interface	Text/graphic (10 languages), touch buttons through the cover		Segment LCD (3 languages), push buttons inside the housing
Diagnostics	Advanced or Premium	Advanced	Premium
Temperature Range	-40..+85°C		-40..+85°C (opt. -53°C)
Position transmitter	Optional (3.5/22.5mA fault current)		Optional (3.5mA fault current)
Digital Outputs (Namur)	Optional: 1 or 2 switches configurable (position or status)	N/A	Optional: 2 position switches
Fault Tolerant Control	Pending	Pending	Yes

Neles NDX

The benefits of performance perfected

Reliability

- Simple installation to eliminate human error
- Robust pneumatics with proven technology for 40µm filtration
- Protected from moisture w/ potted electronics
- Ultra reliable non-contact magnetic position sensing



Ease

- Intuitive, easy and fast installation
- Easy commissioning with simple touch screen or remotely
- Global use with 10+ languages
- Plug & play with all major DCS and Asset Management tools



Operational savings

- Eliminates the need for most additional instrumentation
 - 10x > piezo; 2x > ND9_06;
- One size for all actuators
- Reduce air consumption 90%
- Efficiency and cost reduction in valve maintenance





Type coding / How to Order

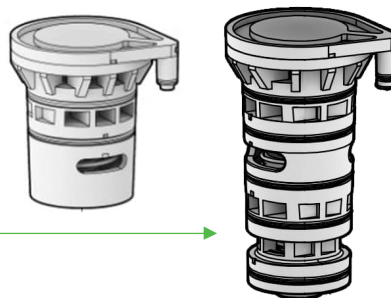
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NDX	2	5	1	1	H	G	-	X	N	0	N	0	0	0	0	-	0	0	0

1 PRODUCT GROUP

1. sign	PRODUCT GROUP
NDX	Intelligent Valve Controller Series NDX Standard Model

2 PNEUMATIC ACTION

2. sign	PNEUMATIC ACTION
1	Single Acting
2	Double acting / Single acting Not available in compact version



NOTE: Double acting can work with single acting actuators when port II is plugged and the check valve is removed from the supply port.

3 PNEUMATIC CAPACITY

3. sign	PNEUMATIC CAPACITY
5	Normal Capacity (80 Nm ³ /h)

4 FAIL ACTION

4. sign	FAIL ACTION
1	Fail safe

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
NDX	2	5	1	1	H	G	-	X	N	0	N	0	0	0	0	-	0	0	0

5 ENCLOSURE & COVER

5. sign	ENCLOSURE
	IP66 / NEMA 4X. 1/2 NPT conduit entry, 2 pcs
0	Compact - Epoxy coated anodized aluminum housing with polycarbonate cover

5. sign	ENCLOSURE
	IP66 / NEMA 4X. 1/2 NPT conduit entry, 2 pcs
1	Standard - Epoxy coated anodized <u>aluminum housing with polycarbonate cover</u>
2	Flameproof / Explosion Proof - Epoxy coated anodized <u>aluminum housing and cover</u>

NOTE: Ex d approvals are only available with option 2



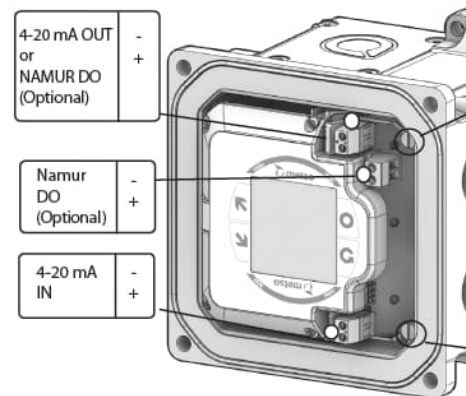
Switching to a new enclosure for Ex d version is ongoing. The only difference is basically the cover.

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
NDX	2	5	1	1	H	G	-	X	N	0	N	0	0	0	0	-	0	0	0

6 COMMUNICATION / INPUT SIGNAL RANGE

6. sign	COMMUNICATION / INPUT SIGNAL RANGE
H	4-20 mA with HART communication
T	4-20 mA with HART communication + PT Internal 2-wire (passive) position transmitter. Analog position feedback signal, output 4-20 mA, supply voltage 12 - 30 V DC
D	4-20 mA with HART communication + 2 x DO Two digital output (DO) channels, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC.
L	4-20 mA with HART communication + PT + DO Internal 2-wire (passive) position transmitter & one digital output (DO) channel. Analog position feedback signal, output 4-20 mA, supply voltage 12 - 30 V DC. DO, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC.
F	FOUNDATION Fieldbus, Physical layer according to IEC 61158-2 (PENDING) Applicable to 5. sign "1" and 9. Sign "N" or "X"

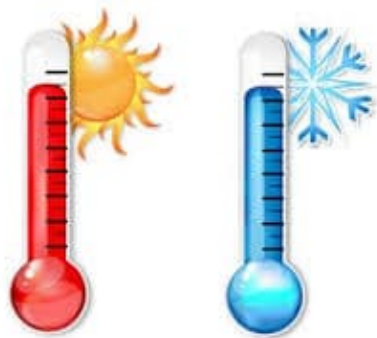
NOTE: H & T are the only options in compact enclosure version



1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
NDX	2	5	1	1	H	G	-	X	N	0	N	0	0	0	0	-	0	0	0

7 TEMPERATURE RANGE

7. sign	TEMPERATURE RANGE
G	General: -40 ... +85 °C / -40 ... +185 °F

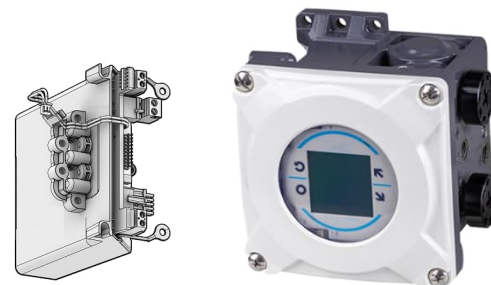


1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
NDX	2	5	1	1	H	G	-	X	N	0	N	0	0	0	0	-	0	0	0

8 Electronics module

8. sign	SHALL ALWAYS BE HYPHEN OR SLASH
This sign is selected automatically based on the other signs. If the device is Ex approved, then it will have "-" for Ex electronics module and if not then "/" for non-Ex electronics module.	
-	Electronics module designed for Ex i use
/	Applicable to 5. sign "1" and 9. and 10. sign "N". Electronics module only for non-Ex applications. Not suitable for I.S. or I/O extension.

No approvals, i.e. NN
e.g. for P&P



1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
NDX	2	5	1	1	H	G	-	X	N	0	N	0	0	0	0	-	0	0	0

9 APPROVAL FOR HAZARDOUS AREAS 1

9. sign	APPROVAL FOR HAZARDOUS AREAS 1
	If approvals are selected for both signs 9. and 10., keep the order shown below, e.g. XE type shall be selected instead of EX type. If there is no need for dual approval, sign 9. or 10. shall be N.
N	No approval

X	ATEX and IECEx certifications: II 1 G Ex ia IIC T6...T4 Ga II 1 D Ex ia IIIC T ₂₀₀ 85 °C... T ₂₀₀ 115 °C Da IP66 II 2 G Ex ib IIC T6...T4 Gb II 2 D Ex ib IIIC T ₂₀₀ 85 °C... T ₂₀₀ 115 °C Db IP66 II 3 G Ex ic IIC T6...T4 Gc II 3 G Ex ec IIC T6...T4 Gc II 3 D Ex ic IIIC T85 °C... T115 °C Dc IP66
E	ATEX and IECEx certifications: II 2 GD Ex db IIC T4...T6 Gb Ex tb IIIC T85...T113°C Db Applicable to 5. Sign "2" only
U	cCSAus certifications: Class I, Division 1, Groups A, B, C, D T4/T5/T6 Class II, Division 1, Groups E, F, G T ₂₀₀ 85°C ... T ₂₀₀ 115°C Class III Division 1 T ₂₀₀ 85°C ... T ₂₀₀ 115°C Ex ia IIC T4/T5/T6 Ga Ex ia IIIC T ₂₀₀ 85°C ... T ₂₀₀ 115°C Da Class I, Zone 0, AEx ia IIC T4/T5/T6 Ga Class I, Zone 20, AEx ia IIIC T ₂₀₀ 85°C ... T ₂₀₀ 115°C Da Class I, Division 2, Groups A, B, C, D T4/T5/T6, Ex ec IIC T4/T5/T6 Gc Class I, Zone 2 AEx ec IIC T4/T5/T6 Gc

NOTE: Two approvals can be selected

Standard Enclosure – “XU”

Compact Enclosure – “UN”

F	cCSAus certifications: (PENDING) Class I, Div 1, Groups B, C, D; Class II, Div 1, Groups E, F, G; Class III; T4...T6, Enclosure Type 4X Ex d IIC T4...T6 AEx d IIC T4...T6 Ex tb IIIC T100°C IP66 AEx tb IIIC T100°C IP6 Applicable to 5. Sign "2" only
C	CCC Ex (China) certifications: Ex ia IIC T4...T6 Ga Ex ib IIC T4...T6 Gb Ex ic IIC T4...T6 Gc
D	CCC Ex (China) certifications (Ex d): Ex d IIC T4/T5/T6 Gb Ex d tD A21 IP66 T85°C/ T95°C Applicable to 5. Sign "2" only

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
NDX	2	5	1	1	H	G	-	X	N	0	N	0	0	0	0	-	0	0	0

10 APPROVAL FOR HAZARDOUS AREAS 2

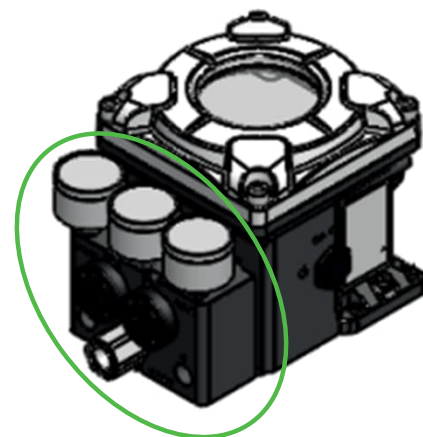
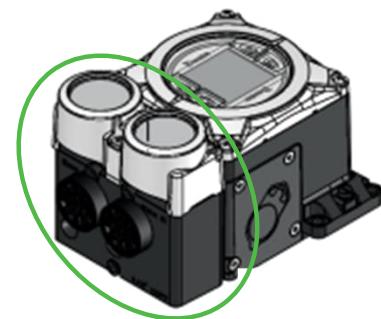
10. sign	APPROVAL FOR HAZARDOUS AREAS 2
	If dual approvals are selected, i.e. approvals for both signs 9. and 10., keep the order shown below, e.g. XE type shall be selected instead of EX type. If there is no need for dual approval, sign 9. or 10. shall be N.
N	No approval
X	ATEX and IECEx certifications See 9. sign "X" for details
E	ATEX and IECEx certifications See 9. sign "E" for details
U	cCSAus certifications See 9. sign "U" for details
F	cCSAus certifications (PENDING) See 9. sign "F" for details
C	CCC Ex (China) certifications: See 9. sign "C" for details
D	CCC Ex (China) certifications (Ex d): See 9. sign "D" for details

J	Japan certifications: Ex d IIC T6...T4 Gb Ex tb IIIC T85°C...T113°C Db T4: -40°C to +85°C; T5: -40°C to +72°C; T6: -40°C to +57°C Applicable to 5. sign "2"
K	KOSHA (Korea) certifications: Ex d IIC T6...T4 T4: -40°C to +80°C; T5: -40°C to +65°C; T6: -40°C to +50°C Ex tD A21 IP66 T* T113°C: -40°C to +85°C, T95°C: -40°C to +72°C, T85: -40°C to +57°C Applicable to 5. sign "2"
W	KOSHA (Korea) certifications: Ex ia IIC T6...T4, Ex iaD 20 T85 °C IP66

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
NDX	2	5	1	1	H	G	-	X	N	0	N	0	0	0	0	-	0	0	0

11 PNEUMATIC CONNECTIONS & GAUGES

11. sign	PNEUMATIC CONNECTIONS & GAUGES
0	Standard, 1/4 NPT, no gauges
1	1/4 NPT, gauges (block with 1/4 NPT threads + gauges)
2	G1/4, no gauges (block with G1/4 threads)
3	G1/4, gauges (block with G1/4 threads + gauges)



NOTE: Gauge blocks can also be added later, by using accessories type code GB01, GB22, etc.

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
NDX	2	5	1	1	H	G	-	X	N	0	N	0	0	0	0	-	0	0	0

12 VARIANT

12. sign	VARIANT
N	Neles
C	Neles, Chinese ID plates (for non-approval version)



13 DIAGNOSTICS

13. sign	DIAGNOSTICS
0	Advanced Diagnostics Not applicable to 6. sign. "F" or "P" For Compact Enclosure only
1	Premium Diagnostics Not applicable to 5. sign "0" For Standard Enclosure only More diagnostics trends available

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
NDX	2	5	1	1	H	G	-	X	N	0	N	0	0	0	0	-	0	0	0

NOTE: These are for future use

14 Option slot #1

14. sign	Option slot #1
0	None

15 Option slot #2

15. sign	Option slot #2
0	None

16 Option slot #3

16. sign	Option slot #3
0	None



NDX NA Product Launch Details

NDX NA Launch Details

- cCSAus certification for intrinsically safe and non-incendive
 - Explosion-proof approvals are pending.
- Announcement on business center page
 - 5/6/2024 - includes links to [training videos](#), [energy savings calculator](#)...
- NDX Foldable Business Cards
 - Please contact your ASM to get some.

Designed for sustainable performance

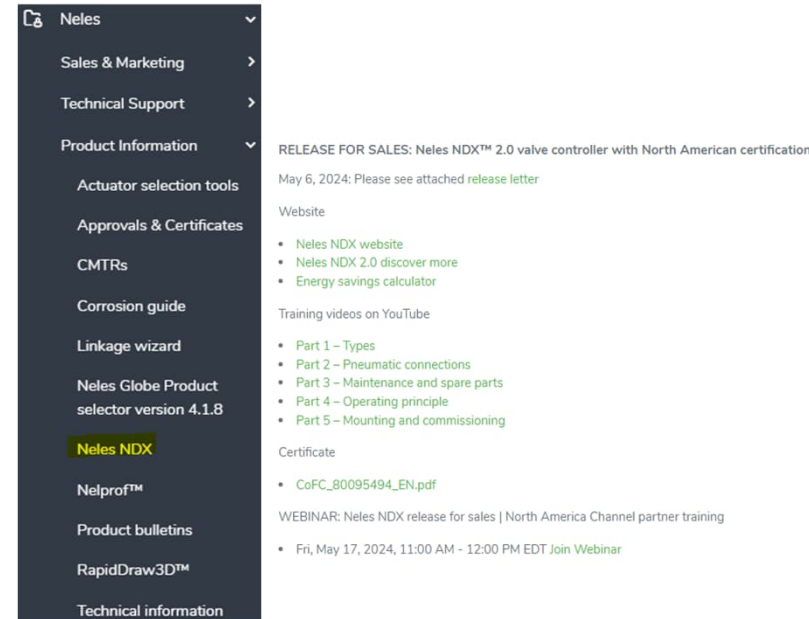
- ⊙ Reduce electricity consumption and CO₂ emissions
- ⊙ Reduce process variability
- ⊙ Improve yield and profitability
- ⊙ Reduce air consumption by up to 90%
- ⊙ Reduce process waste



Valve controller energy saving calculator

Valmet's next generation **Neles NDX™** intelligent valve controller consumes approximately 80 to 90 % less air than conventional controllers, making it an ideal solution to help your plant reach its environmental targets.

Scan to estimate your energy savings



The screenshot shows the Neles website navigation menu on the left and the main content area on the right. The menu includes links for Sales & Marketing, Technical Support, Product Information, Actuator selection tools, Approvals & Certificates, CMTRs, Corrosion guide, Linkage wizard, Neles Globe Product selector version 4.1.8, Neles NDX (highlighted), Nelprof™, Product bulletins, RapidDraw3D™, and Technical information. The main content area displays the 'RELEASE FOR SALES: Neles NDX™ 2.0 valve controller with North American certification' announcement, dated May 6, 2024, with a link to the release letter. It also lists training videos on YouTube, a certificate, and a webinar for North America channel partner training.

NDX NA Launch Details

- Pricebook

- Updated yesterday to include the new NA approvals as well as add in the new demo unit models below. See business center announcement.

- Demo Units

- Deeply discounted models for use as sales demos were added to the price book. Note: these will be tagged for demo use only.

Neles Demo Kits

Category	Part Number	Description	Net Price*
Neles Valve	MA0493049	NDX1510HG_Demo w/ rotary magnet (no case)	650
	MA0493051	NDX2511HG_Demo w/ rotary magnet (no case)	775
	MA0175718	Rolling Demo Case w/ NDA V/G9 VPMI	3 003

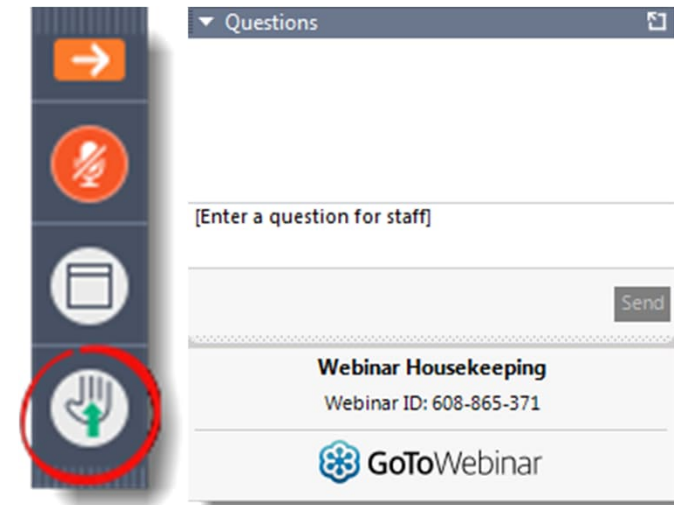
Selected types for North America launch

- Stock orders for Shrewsbury factory are in place. Initial order lead times will be extended, expect around 12 weeks to start and lead times will decrease over the summer.
- **NDX2511HG-XU0N1000**
 - Double acting, standard enclosure, HART, IECEx & cCSAus approvals, premium diagnostics
- **NDX2511TG-XU0N1000**
 - Double acting, standard enclosure, HART **w/ PT**, IECEx & cCSAus approvals, premium diagnostics
- **NDX1510TG-UN0N0000**
 - Single acting, **compact** enclosure, HART **w/ PT**, cCSAus approvals, advanced diagnostics.



Q&A Session and Support Contacts

- Please raise your hand if you would like to ask any questions live and we will unmute you. Otherwise feel free to add any additional questions to the chat.
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 - <https://www.valmet.com/about-us/contact-us/> - click on “Flow control”



Thank you
for joining
us today!



