

PNEUMATIC CYLINDERS STANDARD VDMA - ISO 15552 **SERIE NWT**
CILINDRI PNEUMATICI VDMA - ISO 15552

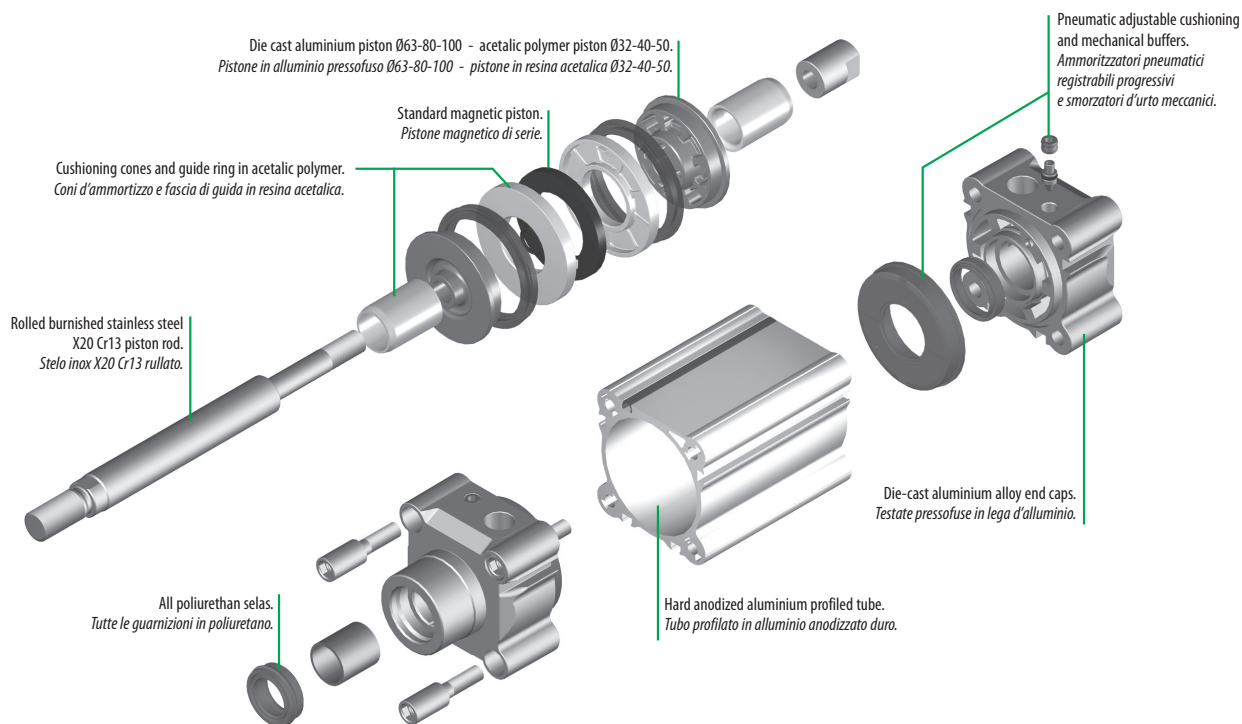
NWT is a new range of ISO 15552 cylinders with new design and new technology in production process, to satisfy needs of high quality performances and more competitiveness. Vesta has developed **NWT** project by using new materials for parts and new ways of producing those parts as well as new assembling and testing methods. As results, **NWT** cylinders are solid, high performing, very reliable and much competitive.

NWT è la nuova gamma di cilindri ISO 15552 caratterizzati da un nuovo design e dall'utilizzo di nuove tecnologie produttive. Vesta soddisfa in questo modo l'esigenza di alta qualità del prodotto con sempre maggiore competitività. Per questa nuova serie Vesta ha studiato nuovi componenti progettati ed ingegnerizzati utilizzando nuovi materiali e nuovi metodi di produzione. Lo scopo raggiunto è quello di unire la nota robustezza ed affidabilità dei cilindri Vesta a prestazioni e criteri di competitività ancora più spinti.



Nwt
cylinders series

CILINDRI PNEUMATICI PNEUMATIC CYLINDERS



Heads	Die-cast aluminium alloy.
Piston rod	Rolled burnished stainless steel X20 Cr13.
Barrel	Anodized profiled aluminium tube.
Seals	Poliurethan.
Cushioning	Pneumatic adjusting cushions.
Buffers	Mechanical.

Testate	Pressofuse in lega di alluminio.
Stelo	Acciaio inox X20 Cr13 rullato.
Camicia	Tubo profilato ed anodizzato in alluminio.
Guarnizioni	Tutte in poliuretano.
Ammortizzatori	Pneumatici regolabili.
Smorzatori d'urto	Meccanici.

Environment temperature range	-10 °C ÷ +80 °C.
Temperature range of medium	0 °C ÷ +40 °C.
Lubrication	Not required.
Medium	Filtered air.
Max operating pressure	10 bar.

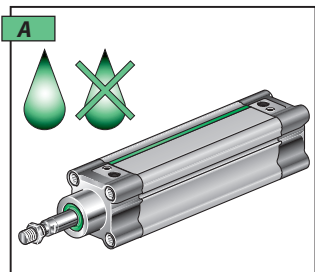
CARATTERISTICHE TECNICHE

Temperatura ambiente	-10 °C ÷ +80 °C.
Temperatura fluido	0 °C ÷ +40 °C.
Lubrificazione	Non necessaria.
Fluido	Aria filtrata.
Pressione max d'esercizio	10 bar.

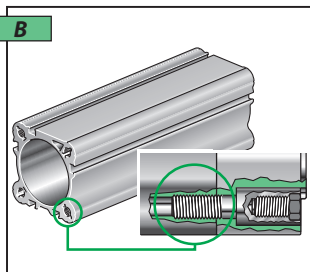


SERIE NWT

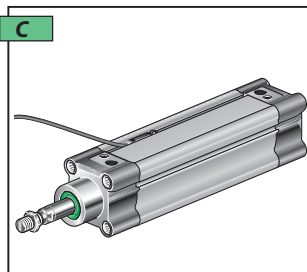
PNEUMATIC CYLINDERS STANDARD VDMA - ISO 15552 CILINDRI PNEUMATICI VDMA - ISO 15552



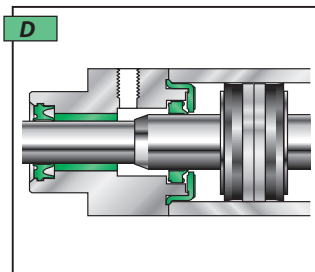
Lubrication not required.
Possibilità di funzionamento continuo
privo di lubrificazione.



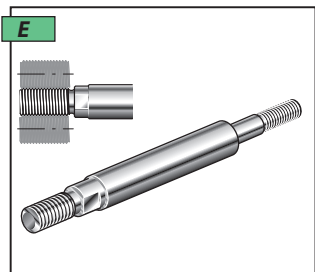
Vesta clean profile tube in anodized aluminium,
threaded.
I profili delle camicie sono in lega di alluminio,
anodizzate e filettate.



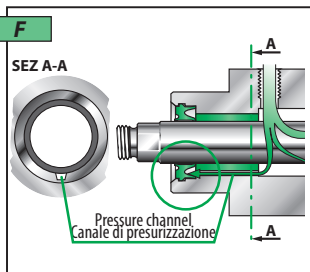
Flush mounted magnetic switches, suitable for easy
insertion on any of the cylinder faces
Fincorsa magnetici a scomparsa con
inserimento radiale direttamente da ogni lato



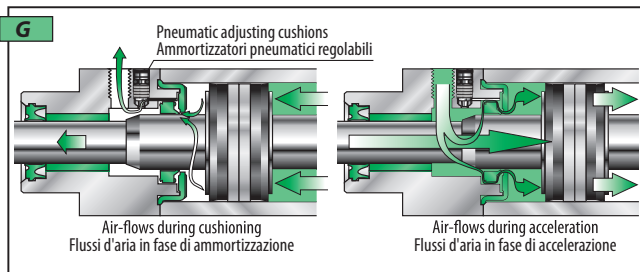
Guided magnetic piston.
Pistone magnetico guidato.



Piston rods in rolled stainless steel X20 Cr 13
Steli in acciaio INOX X20 Cr 13 rullato



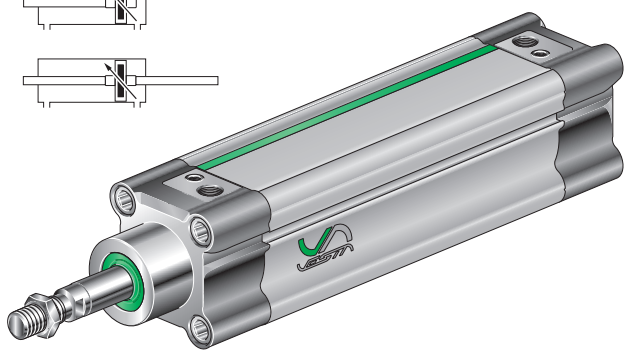
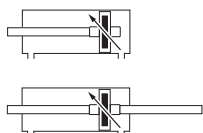
Quick pressurisation of piston rod seal, even after
long unusage.
Pressurizzazione rapida della guarnizione dello stelo
dopo lunga inattività.



Very efficient and progressive adjustable cushioning with mechanical buffers.
Ammortizzatori pneumatici progressivi ed efficienti con smorzatori d'urto di fine corsa.

CYLINDERS ISO 15552 TECHNICAL FEATURES / CARATTERISTICHE TECNICHE CILINDRI ISO 15552

ATEX versions see / Versioni ATEX vedi .. P. A-109



Cushioned cylinder, profile aluminium tube.
Ammortizzato, con camicia profilata di alluminio.

** On request NWT Ø125 is available with piston rod = Ø32 mm
** A richiesta NWT Ø125 è disponibile con stelo = Ø32mm

ISO 15552 cylinder fixing see:
Fissaggi per cilindri ISO 15552 vedi:
..... Pag. A-22 ÷ A-26

Features of reed switches see:
Caratteristiche fincorsa magnetici:
..... Pag. A-19

With magnetic piston / Con pistone magnetico

NWT /

Bore / Alesaggio
(mm):
Ø32 32
Ø40 40
Ø50 50
Ø63 63
Ø80 80
Ø100 ... 100
Ø125 ... 125**

Stroke
Corsa
(mm):

Simple acting front spring
Semplice effetto molla anteriore
Simple acting rear spring
Semplice effetto molla posteriore
Multi - thrust tandem
Tandem multispinta
Multi - position
Moltiposizione
Rear opposed
Contrapposti posteriori
Front opposed
Contrapposti anteriori

SEA
SEP
TN2
BS
CNP
CNF

VS Viton rod seal (-5°C / +150°C)
Guarnizione dello stelo in Viton (-5°C / +150°C)

VV Viton all seal (-5°C / +150°C)
Tutte le guarnizioni in Viton (-5°C / +150°C)

KS Chromium plated steel piston-rod
Stelo in acciaio cromato

SS Stainless Steel X5 Cr Ni 18-10 piston-rod
Stelo in Acciaio Inox X5 Cr Ni 18-10

KSS Chromium plated Stainless Steel
X5 Cr Ni 18-10 piston-rod
Stelo in Acciaio Inox X5 Cr Ni 18-10 cromato

LFC Low friction cushioned
Basso attrito, ammortizzato

LF Low friction non-cushioned
Basso attrito, non ammortizzato

H =mm Extended Piston-rod (mm.= length)
Stelo prolungato (lunghezza in mm.)

NBX Assembling screws and nuts
in stainless steel
Viti, dadi in acciaio Inox

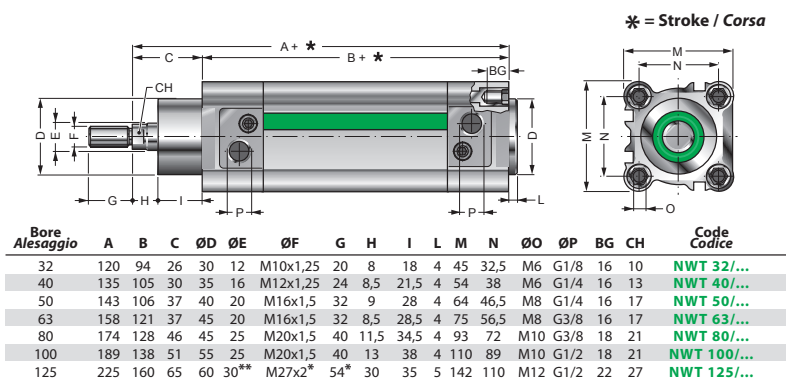
R32 Piston rod Ø 32 (only NWT 125)
Stelo Ø 32 (solo NWT 125)

LT Low temperature version (-30°C / +80°C)
Versione per bassa temperatura (-30°C / +80°C)

Effective cushion length Lunghezza utili ammortizzatore

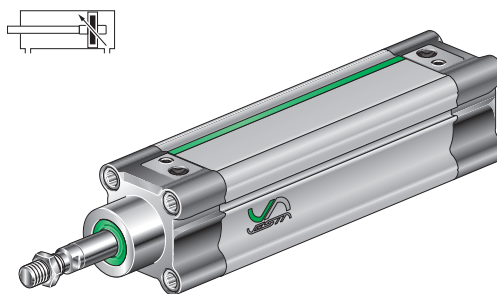
Bore Alesaggio	Length Lunghezza
32	24
40	27
50	30
63	30
80	36
100	38
125	38

Bore Alesaggio	Standard stroke / Corse Standard																	
	25	50	80	100	125	160	200	250	300	350	400	450	500	600	700	800	900	1000
32																		
40	•	•	•	•	•	•	•	•	•	•	•	•	•					
50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
63	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
80	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
125	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

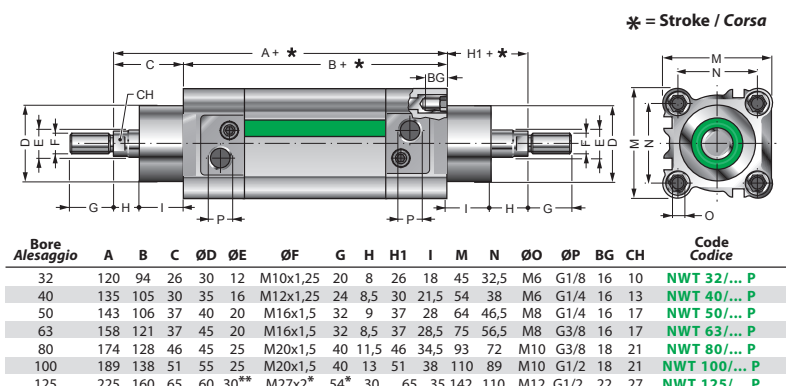


* = on request / a richiesta F=M24x2, G=48
 ** = on request piston rod / a richiesta stelo ØE = 32 mm

SINGLE ROD
 CILINDRO BASE STELO SEMPLICE **NWT .. /...**

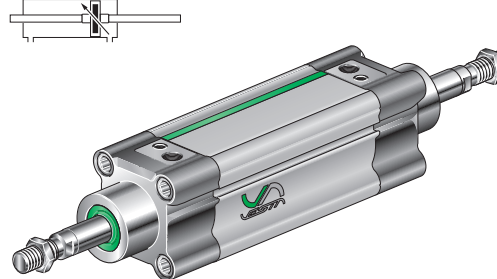


ATEX versions see / Versioni ATEX vedi .. P. A-109



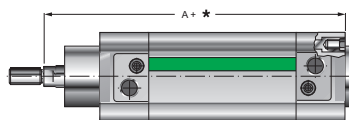
* = on request / a richiesta F=M24x2, G=48
 ** = on request piston rod / a richiesta stelo ØE = 32 mm

THROUGH ROD
 STELO PASSANTE **NWT .. /... P**



ATEX versions see / Versioni ATEX vedi .. P. A-109

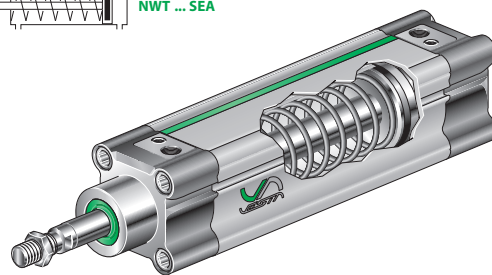
For overall dimensions see NWT standard
 Dimensioni di ingombro vedi NWT standard



* = Stroke / Corsa

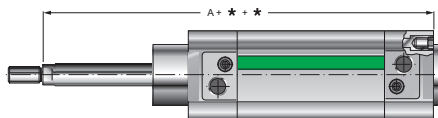
Bore Alesaggio	A	Code Codice
32	120	NWT32/... SEA
40	135	NWT40/... SEA
50	143	NWT50/... SEA
63	158	NWT63/... SEA
80	174	NWT80/... SEA
100	189	NWT100/... SEA

SIMPLE ACTING FRONT SPRING
 SEMPLICE EFFETTO MOLLA ANTERIORE **NWT .. /... SEA**



Strokes Corse (mm)	Spring force - Forza molla (N)												..SEA	..SEP
	Ø32 mm		Ø40 mm		Ø50 mm		Ø63 mm		Ø80 mm		Ø100 mm			
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
10	50	54	72	82	110	123	110	123	166	180	166	180	•	•
20	44	54	62	82	98	123	98	123	152	180	152	180	•	•
30	40	54	52	82	86	123	86	123	137	180	137	180	•	•
40	35	54	42	82	73	123	73	123	123	180	123	180	•	•
50	30	54	32	82	60	123	60	123	110	180	110	180	•	•

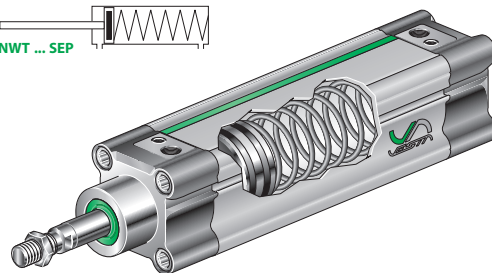
For overall dimensions see NWT standard
 Dimensioni di ingombro vedi NWT standard



* = Stroke / Corsa

Bore Alesaggio	A	Code Codice
32	120	NWT32/... SEP
40	135	NWT40/... SEP
50	143	NWT50/... SEP
63	158	NWT63/... SEP
80	174	NWT80/... SEP
100	189	NWT100/... SEP

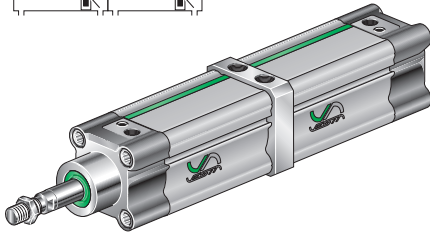
SIMPLE ACTING REAR SPRING
 SEMPLICE EFFETTO MOLLA POSTERIORE **NWT .. /... SEP**





NWT ... TN2 ...

MULTI-THRUST TANDEM
TANDEM MULTISPINTA

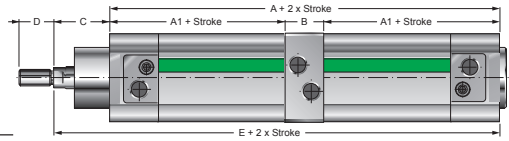


NWT / TN2 VS Viton rod seal / Guarnizione dello stelo in Viton
VV Viton all seals / Tutte le guarnizioni in Viton

Stroke
Corsa (mm):

Bore /
Alesaggio
(mm):
Ø32 ... 32 Ø80 ... 80
Ø40 ... 40 Ø100 ... 100
Ø50 ... 50 Ø125 ... 125
Ø63 ... 63

P Through rod cylinder / Cilindro stelo passante



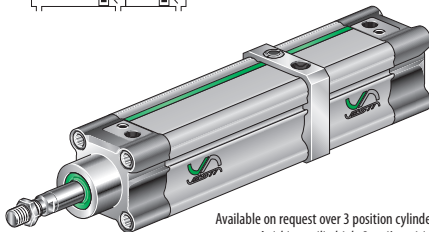
Bore Alesaggio	A	A1	B	C	D	E	Code Codice
32	156	68	20	26	20	182	NWT 32/... TN...
40	175	73,5	28	30	24	205	NWT 40/... TN...
50	171	76,5	18	37	32	208	NWT 50/... TN...
63	191	85	21	37	32	228	NWT 63/... TN...
80	205	91,5	22	46	40	251	NWT 80/... TN...
100	224	98,5	27	51	40	275	NWT 100/... TN...
125	265	115	35	65	54*	330	NWT 125/... TN...

For other dimensions please see
NWT standard cylinder
Per altre dimensioni vedere
cilindri NWT standard

* = on request / su richiesta D=48

NWT ... BS ...

MULTI-POSITION
MULTIPOSIZIONE



Available on request over 3 position cylinders
A richiesta cilindri da 3 a più posizioni

**Attention: Stroke 2 = Addition of the two strokes of the cylinder
**Attenzione: Corsa 2 = Somma delle due corse del cilindro

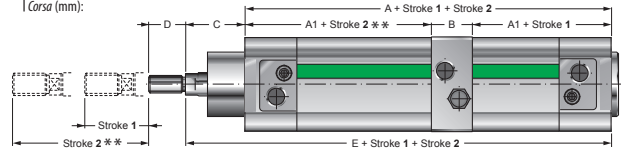
NWT / - BS VS Viton rod seal / Guarnizione dello stelo in Viton
VV Viton all seals / Tutte le guarnizioni in Viton

Bore / Alesaggio
(mm):

Ø32 ... 32
Ø40 ... 40
Ø50 ... 50
Ø63 ... 63
Ø80 ... 80
Ø100 ... 100
Ø125 ... 125

1°
Stroke
Corsa (mm):

2° **
Stroke / Corsa (mm):



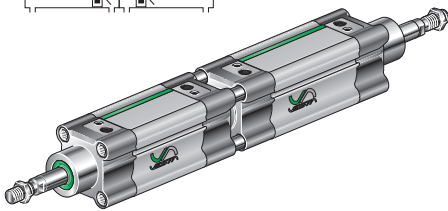
Bore Alesaggio	A	A1	B	C	D	E	Code Codice
32	156	68	20	26	20	182	NWT 32/... BS...
40	175	73,5	28	30	24	205	NWT 40/... BS...
50	171	76,5	18	37	32	208	NWT 50/... BS...
63	191	85	21	37	32	228	NWT 63/... BS...
80	205	91,5	22	46	40	251	NWT 80/... BS...
100	224	98,5	27	51	40	275	NWT 100/... BS...
125	265	115	35	65	54*	330	NWT 125/... BS...

For other dimensions please see
NWT standard cylinder
Per altre dimensioni vedere
cilindri NWT standard

* = on request / su richiesta D=48

NWT ... CNP ...

REAR OPPOSED
CONTRAPPOSTI POSTERIORI



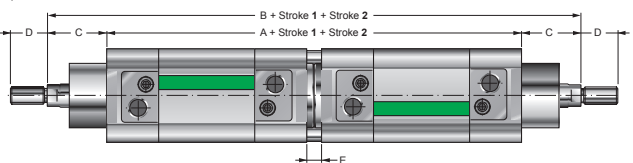
NWT / - CNP VS Viton rod seal / Guarnizione dello stelo in Viton
VV Viton all seals / Tutte le guarnizioni in Viton

Bore / Alesaggio
(mm):

Ø32 ... 32
Ø40 ... 40
Ø50 ... 50
Ø63 ... 63
Ø80 ... 80
Ø100 ... 100
Ø125 ... 125

1°
Stroke
Corsa (mm):

2°
Stroke / Corsa (mm):



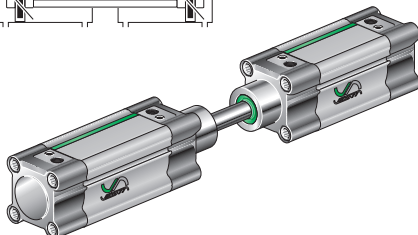
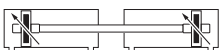
Bore Alesaggio	A	B	C	D	E	Code Codice
32	196	248	26	20	8	NWT 32/... CNP...
40	218	278	30	24	8	NWT 40/... CNP...
50	220	294	37	32	8	NWT 50/... CNP...
63	250	324	37	32	8	NWT 63/... CNP...
80	264	356	46	40	8	NWT 80/... CNP...
100	284	386	51	40	8	NWT 100/... CNP...
125	330	460	65	54*	10	NWT 125/... CNP...

For other dimensions please see
NWT standard cylinder
Per altre dimensioni vedere
cilindri NWT standard

* = on request / su richiesta D=48

NWT ... CNF ...

FRONT OPPOSED
CONTRAPPOSTI ANTERIORI



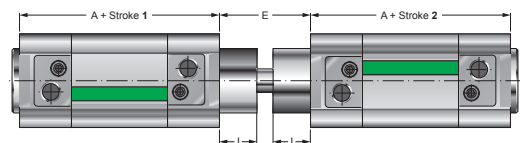
NWT / - CNF VS Viton rod seal / Guarnizione dello stelo in Viton
VV Viton all seals / Tutte le guarnizioni in Viton

Bore / Alesaggio
(mm):

Ø32 ... 32
Ø40 ... 40
Ø50 ... 50
Ø63 ... 63
Ø80 ... 80
Ø100 ... 100
Ø125 ... 125

1°
Stroke
Corsa (mm):

2°
Stroke / Corsa (mm):

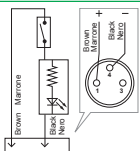


Bore Alesaggio	A	E	I	Code Codice
32	94	48	18	NWT 32/... CNF...
40	105	54	21,5	NWT 40/... CNF...
50	106	69	28	NWT 50/... CNF...
63	121	69	28,5	NWT 63/... CNF...
80	128	86	34,5	NWT 80/... CNF...
100	138	91	38	NWT 100/... CNF...
125	160	100	35	NWT 125/... CNF...

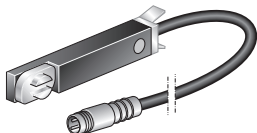
For other dimensions please see
NWT standard cylinder
Per altre dimensioni vedere
cilindri NWT standard

MAGNETIC SWITCHES FOR NWT CYLINDERS / FINECORSA MAGNETICI PER CILINDRI NWT

circuit / circuito

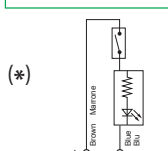


WITH CONNECTOR
CON CONNETTORE
VNCR2
REED

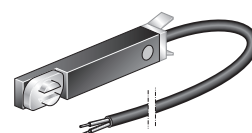


Cable standard length / Lunghezza cavo standard: 300 mm

circuit / circuito

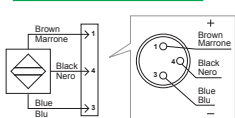


(*) WITH DIRECT CABLE
CON CAVO DIRETTO
VNPR2
REED

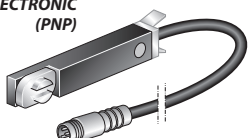


Cable standard length / Lunghezza cavo standard: 3000 mm

circuit / circuito

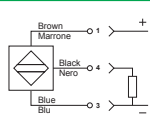


WITH CONNECTOR 3 POLES
CON CONNETTORE 3 POLI
VNCE3
ELECTRONIC
(PNP)

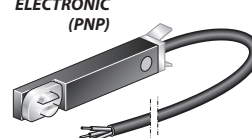


Cable standard length / Lunghezza cavo standard: 300 mm

circuit / circuito



WITH DIRECT CABLE 3 POLES
CON CAVO DIRETTO 3 POLI
VNPE3
ELECTRONIC
(PNP)

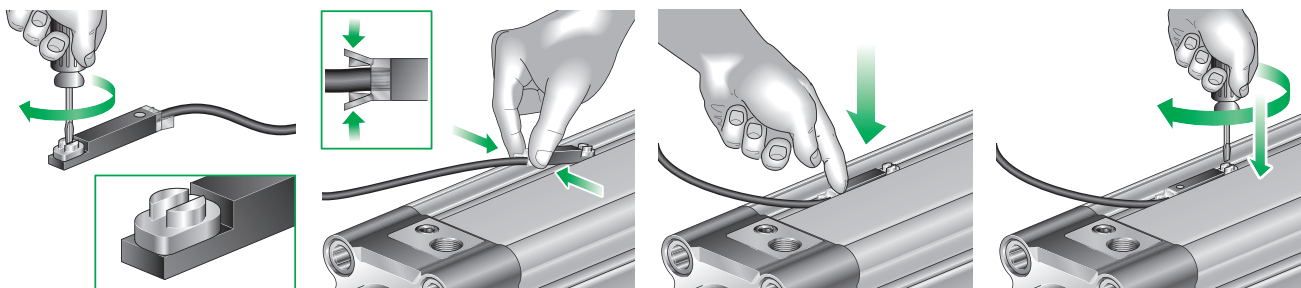


Cable standard length / Lunghezza cavo standard: 3000 mm

(*) Available on request **VNPR2** for series connection of switches, order code **VNPR3**.
A richiesta è fornibile il sensore **VNPR2** adatto al collegamento in serie di più sensori, con codice **VNPR3**.

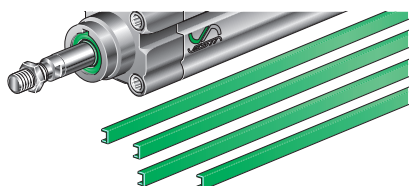
Code Codice	Voltage range Tensione max	Switching current Corrente a 25 °C	Switching capacity Potenza Induttiva	Degree of protection Grado di protezione	Working temperature Temperatura di lavoro	ON time Tempo di inserzione	OFF time Tempo di disinserzione	Electric life Vita elettrica	Contact resistance Resistenza di contatto	Contact function Contatto
	V	mA	VA		°C	-	-	impulsi	Ω	
VNCR2	3-48 AC-DC	100	6	IP67	-20 ÷ +85	0,5 msec	0,1 msec	10 ⁷	0,1	
VNPR2	3-48 AC-DC	100	6	IP67	-20 ÷ +85	0,5 msec	0,1 msec	10 ⁷	0,1	
VNCE3	6-30 DC	200	4	IP67	-20 ÷ +85	0,8 µsec	0,3 µsec	10 ⁹	-	
VNPE3	6-30 DC	200	4	IP67	-20 ÷ +85	0,8 µsec	0,3 µsec	10 ⁹	-	

MAGNETIC SWITCH POSITIONING / POSIZIONAMENTO DEI FINECORSA MAGNETICI



SPARE PARTS FOR NWT CYLINDERS / RICAMBI PER CILINDRI NWT

PLASTIC SLOT COVER
BANDELLA DI COPERTURA CAVA
NWT-PCC



EXTENSION FOR MAGNETIC SWITCH CABLE
PROLUNGA CAVO SENSORE MAGNETICO
VSC-P3 030

3 poles, for reed or electronic switch
3 fili, per sensore reed od elettronico
Standard length / Lunghezza standard
3000 mm



Seals kit code = **Cylinder code + Bore + Versions + - SG**:
(The kit includes all seals).

Codice del kit = **Codice del cilindro + Alesaggio + Versioni + - SG**:
(Il kit comprende tutte le guarnizioni necessarie).

Example / Esempio: **NWT 63 P VS - SG**

SEALS KIT
KIT GUARNIZIONI DI RICAMBIO
..... - SG

