

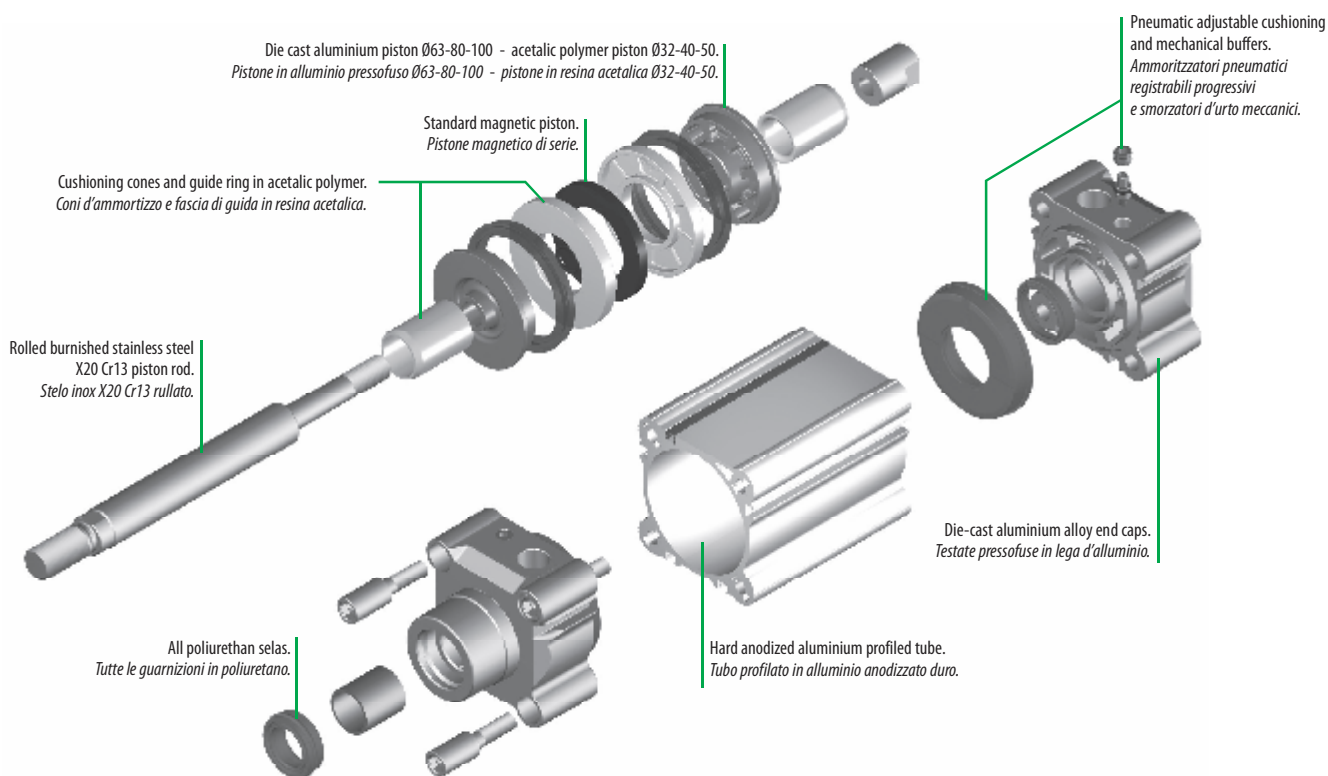
**PNEUMATIC CYLINDERS STANDARD VDMA - ISO 15552**  
**CILINDRI PNEUMATICI VDMA - ISO 15552** **SERIE NWT**

**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



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 progressivi regolabili.
Smorzatori d'urto .....	Meccanici.

**TECHNICAL FEATURES**

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.

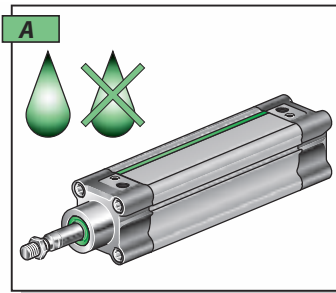
**CARATTERISTICHE TECNICHE**

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

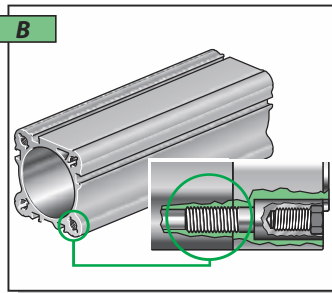


SERIE **NWT**

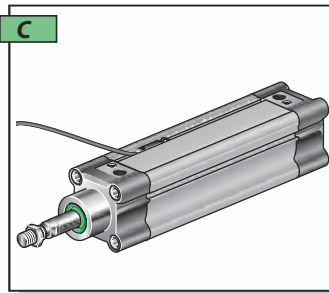
**PNEUMATIC CYLINDERS STANDARD VDMA - ISO 15552**  
**CILINDRI PNEUMATICI VDMA - ISO 15552**



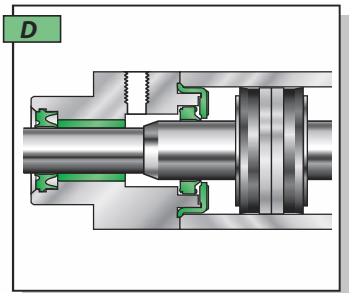
Lubrication not required.  
*Possibilità di funzionamento continuo privo di lubrificazione.*



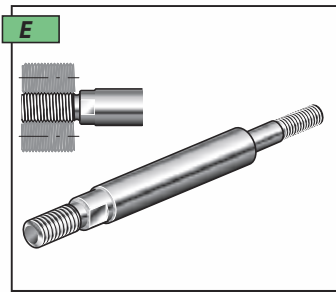
Vesta clean profile tube in anodized aluminium, threaded.  
*I profili delle camicie sono in lega di alluminio, anodizzate e filettate.*



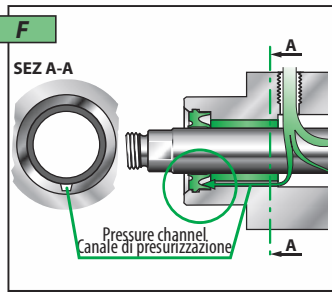
Flush mounted magnetic switches, suitable for easy insertion on any of the cylinder faces  
*Finecorsa magnetici a scomparsa con inserimento radiale direttamente da ogni lato*



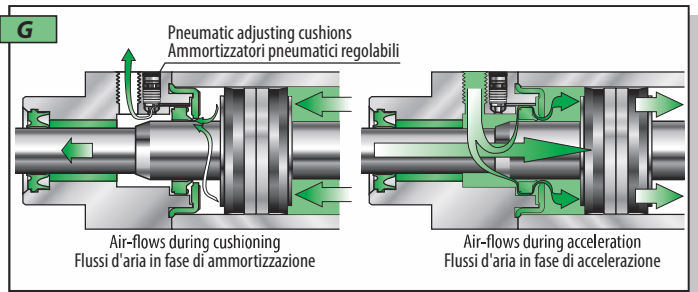
Guided magnetic piston.  
*Pistone magnetico guidato.*



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



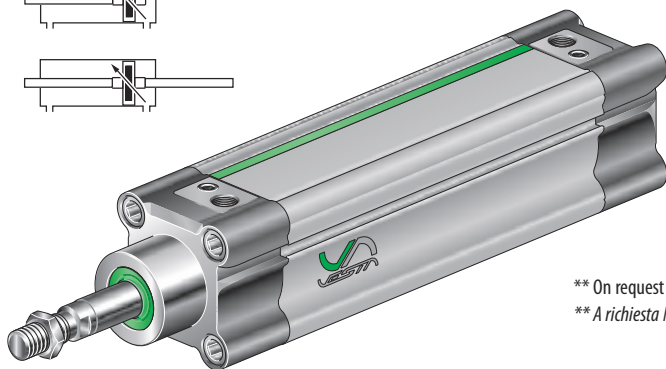
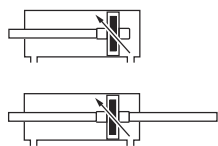
Quick pressurisation of piston rod seal, even after long unusage.  
*Pressurizzazione rapida della guarnizione dello stelo dopo lunga inattività.*



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.*

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

Features of reed switches see:  
*Caratteristiche finecorsa 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):

- VS** Viton rod seal  
*Guarnizione dello stelo in Viton*
- VV** Viton all seal  
*Tutte le guarnizioni in Viton*
- 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, nuts and piston rod in stainless steel  
*Viti, dadi e stelo in acciaio Inox*
- R32** Piston rod Ø 32 (only NWT 125)  
*Stelo Ø 32 (solo NWT 125)*

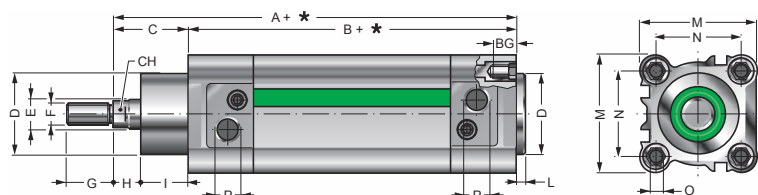
Through rod cylinder  
*Cilindro stelo passante*  
 Simple acting front spring  
*Semplice effetto molla anteriore*  
 Simple acting rear spring  
*Semplice effetto molla posteriore*

**P**  
**SEA**  
**SEP**

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	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Effective cushion length Lunghezza utili ammortizzatore	
Bore Alesaggio	Length Lunghezza
32	24
40	27
50	30
63	30
80	36
100	38
125	38

\* = Stroke / Corsa



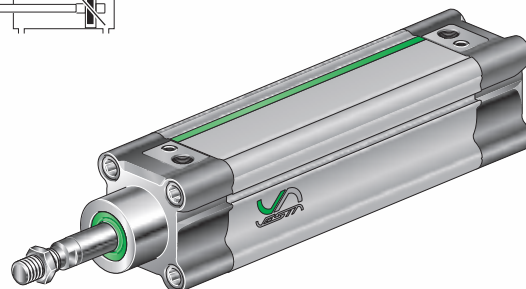
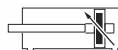
Bore Alesaggio	A	B	C	ØD	ØE	ØF	G	H	I	L	M	N	ØO	ØP	BG	CH	Code Codice
32	120	94	26	30	12	M10x1,25	20	8	18	4	45	32,5	M6	G1/8	16	10	NWT 32/...
40	135	105	30	35	16	M12x1,25	24	8,5	21,5	4	54	38	M6	G1/4	16	13	NWT 40/...
50	143	106	37	40	20	M16x1,5	32	9	28	4	64	46,5	M8	G1/4	16	17	NWT 50/...
63	158	121	37	45	20	M16x1,5	32	8,5	28,5	4	75	56,5	M8	G3/8	16	17	NWT 63/...
80	174	128	46	45	25	M20x1,5	40	11,5	34,5	4	93	72	M10	G3/8	18	21	NWT 80/...
100	189	138	51	55	25	M20x1,5	40	13	38	4	110	89	M10	G1/2	18	21	NWT 100/...
125	225	160	65	60	30**	M27x2*	54*	30	35	5	142	110	M12	G1/2	22	27	NWT 125/...

\* = on request / a richiesta F=M24x2, G=48

\*\* = on request piston rod / a richiesta stelo ØE = 32 mm

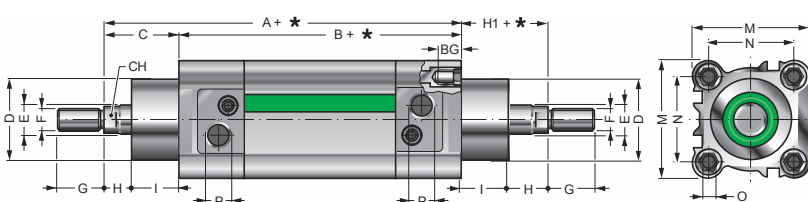
SINGLE ROD  
CILINDRO BASE STELO SEMPLICE

NWT .. / ...



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

\* = Stroke / Corsa



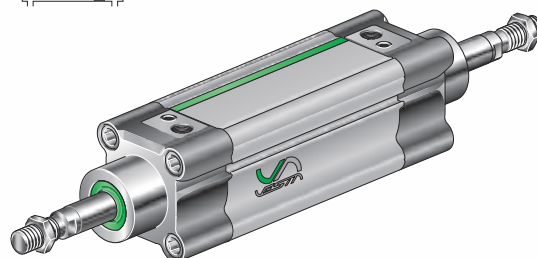
Bore Alesaggio	A	B	C	ØD	ØE	ØF	G	H	H1	I	M	N	ØO	ØP	BG	CH	Code Codice
32	120	94	26	30	12	M10x1,25	20	8	26	18	45	32,5	M6	G1/8	16	10	NWT 32/... P
40	135	105	30	35	16	M12x1,25	24	8,5	30	21,5	54	38	M6	G1/4	16	13	NWT 40/... P
50	143	106	37	40	20	M16x1,5	32	9	37	28	64	46,5	M8	G1/4	16	17	NWT 50/... P
63	158	121	37	45	20	M16x1,5	32	8,5	37	28,5	75	56,5	M8	G3/8	16	17	NWT 63/... P
80	174	128	46	45	25	M20x1,5	40	11,5	46	34,5	93	72	M10	G3/8	18	21	NWT 80/... P
100	189	138	51	55	25	M20x1,5	40	13	51	38	110	89	M10	G1/2	18	21	NWT 100/... P
125	225	160	65	60	30**	M27x2*	54*	30	65	35	142	110	M12	G1/2	22	27	NWT 125/... P

\* = on request / a richiesta F=M24x2, G=48

\*\* = on request piston rod / a richiesta stelo ØE = 32 mm

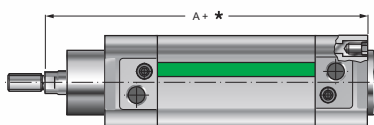
THROUGH ROD  
STELO PASSANTE

NWT .. / ... P



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

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

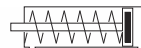


Bore Alesaggio	A	Code Codice
32	120	NWT32/... SEA
40	135	NWT40/... SEA
50	143	NWT50/... SEA
63	158	NWT63/... SEA
80	174	NWT80/... SEA
100	189	NWT100/... SEA

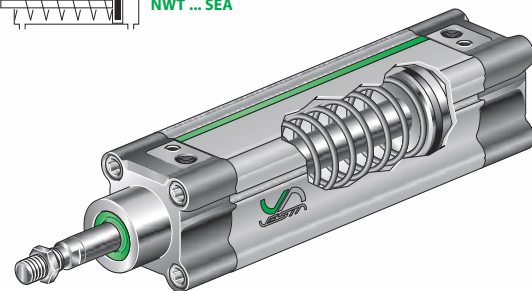
\* = Stroke / Corsa

SIMPLE ACTING FRONT SPRING  
SEMPLICE EFFETTO MOLLA ANTERIORE

NWT .. / ... SEA

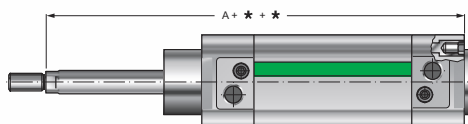


NWT ... SEA



Strokes Corse (mm)	Spring force - Forza molla (N)											
	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



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

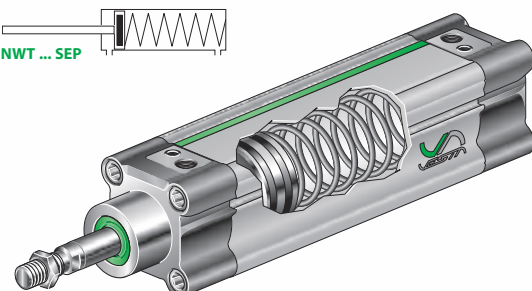
\* = Stroke / Corsa

SIMPLE ACTING REAR SPRING  
SEMPLICE EFFETTO MOLLA POSTERIORE

NWT .. / ... SEP



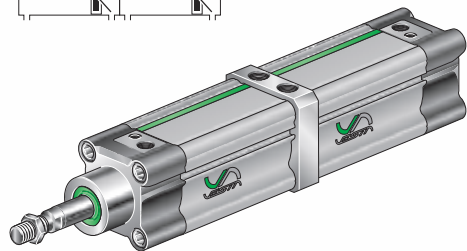
NWT ... SEP





## NWT ... TN2 ...

MULTI-THRUST TANDEM  
TANDEM MULTISPINTA

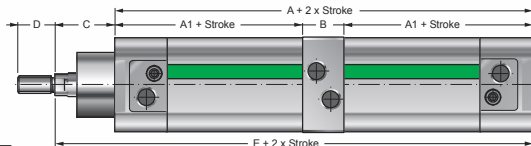


### NWT [ ] / [ ] TN2 [ ] [ ]

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



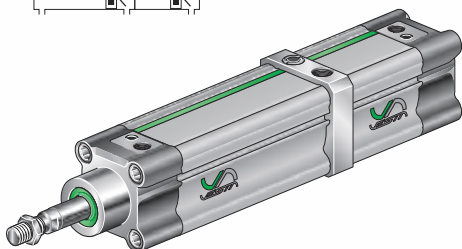
Bore Alesaggio	A	A1	B	C	D	E	Code Codice
32	156	68	20	26	20	182	NWT 32/... TN...
40	175	73,5	28	30	24	205	NWT 40/... TN...
50	171	76,5	18	37	32	208	NWT 50/... TN...
63	191	85	21	37	32	228	NWT 63/... TN...
80	205	91,5	22	46	40	251	NWT 80/... TN...
100	224	98,5	27	51	40	275	NWT 100/... TN...
125	265	115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

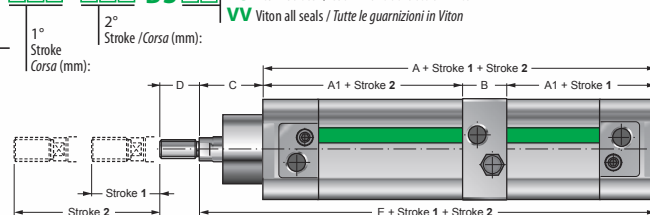


Available on request over 3 position cylinders  
A richiesta cilindri da 3 a più posizioni

### NWT [ ] / [ ] - [ ] BS [ ] [ ]

Stroke  
Corsa (mm):

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



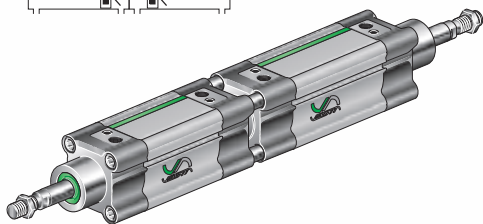
Bore Alesaggio	A	A1	B	C	D	E	Code Codice
32	156	68	20	26	20	182	NWT 32/... BS...
40	175	73,5	28	30	24	205	NWT 40/... BS...
50	171	76,5	18	37	32	208	NWT 50/... BS...
63	191	85	21	37	32	228	NWT 63/... BS...
80	205	91,5	22	46	40	251	NWT 80/... BS...
100	224	98,5	27	51	40	275	NWT 100/... BS...
125	265	115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

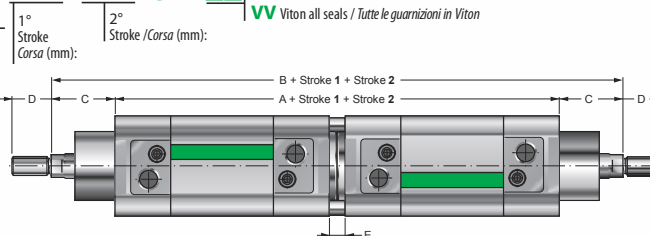
REAR OPPOSED  
CONTRAPPOSTI POSTERIORI



### NWT [ ] / [ ] - [ ] CNP [ ] [ ]

Stroke  
Corsa (mm):

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



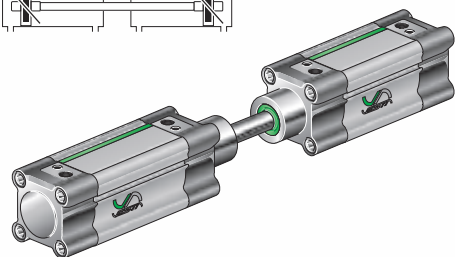
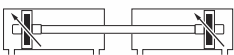
Bore Alesaggio	A	B	C	D	E	Code Codice
32	196	248	26	20	8	NWT 32/... CNP...
40	218	278	30	24	8	NWT 40/... CNP...
50	220	294	37	32	8	NWT 50/... CNP...
63	250	324	37	32	8	NWT 63/... CNP...
80	264	356	46	40	8	NWT 80/... CNP...
100	284	386	51	40	8	NWT 100/... CNP...
125	330	460	65	54*	10	NWT 125/... CNP...

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

\* = on request / su richiesta D=48

## NWT ... CNF ... F

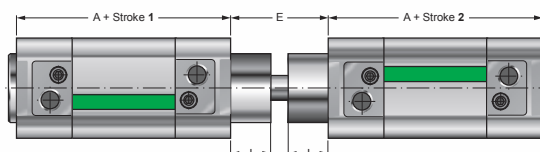
FRONT OPPOSED  
CONTRAPPOSTI ANTERIORI



### NWT [ ] / [ ] - [ ] CNF [ ] [ ]

Stroke  
Corsa (mm):

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



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