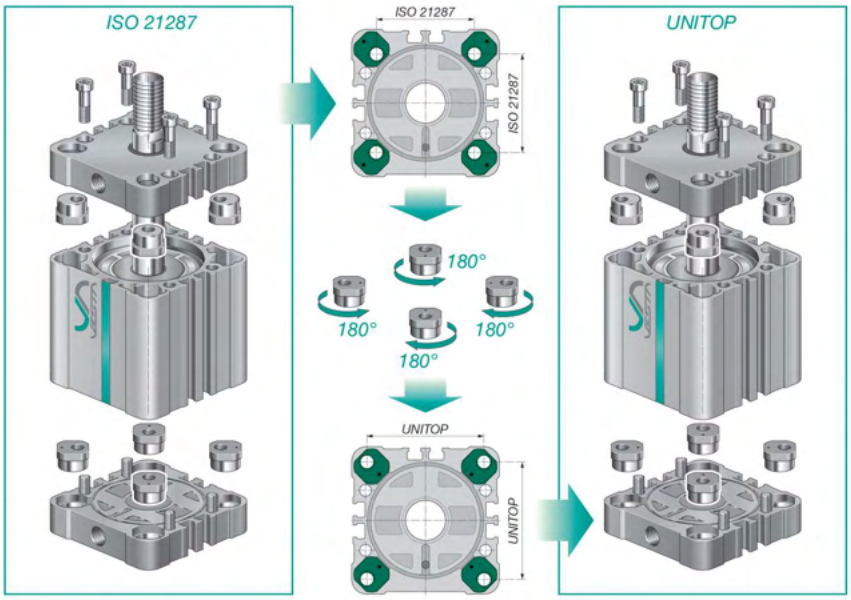
ISO 21287 - UNITOP COMPACT CYLINDERS SERIES
CILINDRI PNEUMATICI COMPATTI ISO 21287 - UNITOP

SERIE **NSK**

PATENTED
BREVETTATO

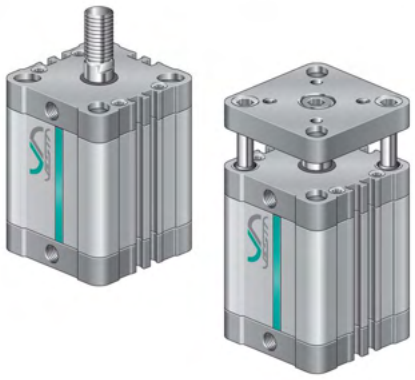
NSK series is a completely new range of Vesta compact cylinders. It has been worked out in one set of common basic components for a final assembly to ISO 21287 standard as well as UNITOP standard, which is covered by patent..
An extremely construction simplicity, new design and advanced technology make the compact series NSK highly competitive, able to meet even the hardest request of performance and reliability and give it a wide duty flexibility.
What also greatly significant is the advantage of a drastic reduction in construction elements, though saving the need of offering 2 standard version of product.

*Nuova gamma di cilindri compatti **NSK**, che con un unico set di componenti base è studiata per l'assemblaggio finale in versione standard ISO 21287 oppure in standard UNITOP (soluzione protetta da brevetto).*
L'estrema semplicità costruttiva, il nuovo design e la innovativa tecnologia di produzione, rendono la serie compatta NSK molto competitiva ed in grado di soddisfare le più esigenti richieste di prestazioni ed affidabilità, unite a grande flessibilità nel servizio.
Di particolare evidenza il vantaggio ottenuto con la drastica riduzione di elementi costruttivi, salvaguardando l'esigenza di offrire due versioni standard di prodotto.



TECHNICAL FEATURES NSK CYLINDERS / *CARATTERISTICHE TECNICHE CILINDRI NSK*

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



NSK □-□□-□□□-□-□-□□

ISO 21287 **I**
UNITOP **U**

Bore / *Alesaggio* (mm):
Ø16 ..... **16**
Ø20 ..... **20**
Ø25 ..... **25**
Ø32 ..... **32**
Ø40 ..... **40**
Ø50 ..... **50**
Ø63 ..... **63**
Ø80 ..... **80**
Ø100 ... **100**

Stroke / *Corsa* (mm):

Male thread **M**
Filetto maschio

Female thread **F**
Filetto femmina

VS High Temperature (-25 / +120 °C) Polyurethane rod seal
Guarnizione dello stelo in Poliuretano per alte Temperature (-25/+120°C)

VV High Temperature (-25 / +120 °C) Polyurethane all seals
Tutte le guarnizioni in Poliuretano per alte Temperature (-25/+120°C)

SEA Single acting front spring
Semplice effetto molla anteriore

SEP Single acting rear spring
Semplice effetto molla posteriore

P Through rod cylinder
Cilindro stelo passante

AR Non rotating
Cilindro antirotazione

Characteristic magnetic switches see **GENERAL CATALOGUE - Pag. A-19; A-33.**
Caratteristiche finecorsa magnetico vedi ***CATALOGO GENERALE - Pag. A-19;*** **A-33.**

TECHNICAL FEATURES

Head	Die-cast aluminium alloy.
Piston rod	Ø16 ÷ 25 stainless steel X5CrNi1810, Ø32 ÷ 100 stainless steel X20Cr13.
Barrel	Anodized profiled aluminium tube.
Seals	Polyurethane.
Cushioning	Mechanical buffers.

Ambient temperature range	-20 °C ÷ +80 °C.
Temperature range of medium	0 °C ÷ +30 °C.
Lubrication	Not required.
Medium	Filtered air.
Max operating pressure	10 bar.

CARATTERISTICHE TECNICHE

Testate	*Pressofusione in lega di alluminio.*
Stelo	*Ø16 ÷ 25 acciaio inox X5CrNi1810, Ø32 ÷ 100 acciaio inox X20Cr13.*
Camicia	*Tubo profilato ed anodizzato d' alluminio.*
Guarnizioni	*In poliuretano.*
Ammortizzatori	*Smorzatore meccanici d' urto.*

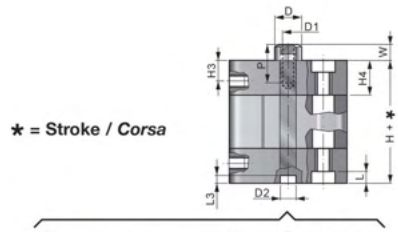
Temperatura ambiente	*-20 °C ÷ +80 °C.*
Temperatura fluido	*0 °C ÷ +30 °C.*
Lubrificazione	*Non necessaria.*
Fluido	*Aria filtrata*
Pressione max d'esercizio	*10 bar.*

NSK . - ..

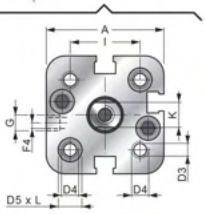
DOUBLE ACTING MAGNETIC CYLINDER
CILINDRO A DOPPIO EFFETTO MAGNETICO

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

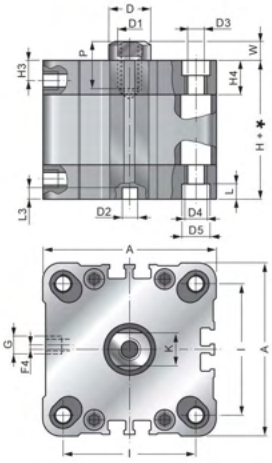
★ = Stroke / *Corsa*



Ø 16 mm



Ø 20; 25 mm



Ø 32; 40; 50; 63; 80; 100 mm

STANDARD ISO 21287

Ø	A	ØD	ØD2	ØD3	ØD4	ØD5	G	H3	H4	I	K	L	L3	W	F4	H	Code / *Codice*
16	29,2	8	6	3,3	M4	6	M5	7	12,8	18	6	3,5	2,2	4,5	0	37 (±0,5)	**NSKI 16-...**
20	37	10	6	4,2	M5	7,5	M5	7	12,3	22	8	4,2	2,5	6	4	37 (±0,5)	**NSKI 20-...**
25	41	10	6	4,2	M5	7,5	M5	7,5	13,5	26	8	4,2	2,5	6	3	39 (±0,5)	**NSKI 25-...**
32	49,2	12	6	5,2	M6	9	G1/8	7,5	15	32,5	10	4,5	2	7	0	44 (±0,5)	**NSKI 32-...**
40	57,2	12	6	5,2	M6	9	G1/8	7,5	15	38	10	4,2	2	7	0	45 (±0,7)	**NSKI 40-...**
50	67	16	8	6,7	M8	10,5	G1/8	7,5	14,6	46,5	13	4,7	2,5	8	0	45 (±0,7)	**NSKI 50-...**
63	80	16	8	6,7	M8	10,5	G1/8	8	15,5	56,5	13	5,2	2,5	8	0	49 (±0,8)	**NSKI 63-...**
80	102,6*	20	8	8,5	M10	13,5	G1/8	9	17	72	17	5,2	2,5	10	0	54 (±0,8)	**NSKI 80-...**
100	124*	25	8	8,5	M10	13,5	G1/4*	10	20	89	22	5,2	3	10	0	67 (±1,0)	**NSKI 100-...**

STANDARD UNITOP

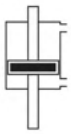
Ø	A	ØD	ØD2	ØD3	ØD4	ØD5	G	H3	H4	I	K	L	L3	W	F4	H	Code / *Codice*
16	29,2	8	6	3,3	M4	6	M5	7	12,8	18	6	3,5	2,2	4,5	0	38 (±0,5	**NSKU 16-...**
20	37	10	6	4,2	M5	7,5	M5	7	12,3	22	8	4,2	2,5	4,5	4	38 (±0,5)	**NSKU 20-...**
25	41	10	6	4,2	M5	7,5	M5	7,5	13,5	26	8	4,2	2,5	5,5	3	39,5 (±0,5)	**NSKU 25-...**
32	49,2	12	6	5,2	M6	9	G1/8	7,5	15	32	10	4,5	2	6	0	44,5 (±0,5)	**NSKU 32-...**
40	57,2	12	6	5,2	M6	9	G1/8	7,5	15	42	10	4,2	2	6,5	0	45,5 (±0,7)	**NSKU 40-...**
50	67	16	8	6,7	M8	10,5	G1/8	7,5	14,6	50	13	4,7	2,5	7,5	0	45,5 (±0,7)	**NSKU 50-...**
63	80	16	8	8,5	M10	13,5	G1/8	8	15,5	62	13	5,2	2,5	7,5	0	50 (±0,8)	**NSKU 63-...**
80	102,6	20	8	8,5	M10	13,5	G1/8	9	17	82	17	5,2	2,5	8	0	56 (±0,8)	**NSKU 80-...**
100	124	25	8	8,5	M10	13,5	G1/4	10	20	103	22	5,2	3	10	0	66,5 (±1,0)	**NSKU 100-...**

Standard stroke / *Corse Standard*

Bore / *Alesaggio*	5	10	15	20	25	30	40	50	60	70	80	90	100	125	160	200	250
16	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
25	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
32	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
63		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
80		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
100		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

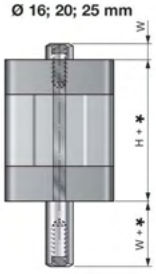
NSK . - .. P

DOUBLE ACTING MAGNETIC THROUGH ROD CYLINDER
CILINDRO MAGNETICO A DOPPIO EFFETTO STELO PASSANTE



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

Ø 16; 20; 25 mm



★ = Stroke / *Corsa*

Ø 32; 40; 50; 63; 80; 100 mm

STANDARD ISO 21287

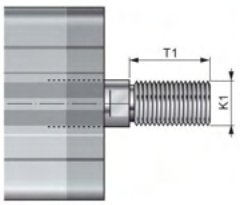
Ø	W	H	Code - *Codice*
16	4,5	37 (±0,5)	**NSKI 16/... P**
20	6	37 (±0,5)	**NSKI 20/... P**
25	6	39 (±0,5)	**NSKI 25/... P**
32	7	44 (±0,5)	**NSKI 32/... P**
40	7	45 (±0,7)	**NSKI 40/... P**
50	8	45 (±0,7)	**NSKI 50/... P**
63	8	49 (±0,8)	**NSKI 63/... P**
80	10	54 (±0,8)	**NSKI 80/... P**
100	10	67 (±1,0)	**NSKI 100/... P**

STANDARD UNITOP

Ø	W	H	Code - *Codice*
16	4,5	38 (±0,5)	**NSKU 16/... P**
20	4,5	38 (±0,5)	**NSKU 20/... P**
25	5,5	39,5 (±0,5)	**NSKU 25/... P**
32	6	44,5 (±0,5)	**NSKU 32/... P**
40	6,5	45,5 (±0,7)	**NSKU 40/... P**
50	7,5	45,5 (±0,7)	**NSKU 50/... P**
63	7,5	50 (±0,8)	**NSKU 63/... P**
80	8	56 (±0,8)	**NSKU 80/... P**
100	10	66,5 (±1,0)	**NSKU 100/... P**

NSK . - .... M

THREADED MALE PISTON ROD VERSION
VERSIONE STELO FILETTATO MASCHIO



STANDARD ISO 21287

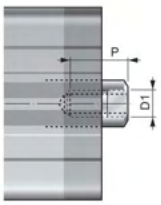
Ø	K1	T1
16	M6x1	12
20	M8x1,25	16
25	M8x1,25	16
32	M10x1,25	19
40	M10x1,25	19
50	M12x1,25	22
63	M12x1,25	22
80	M16x1,5	28
100	M16x1,5	28

STANDARD UNITOP

Ø	K1	T1
16	M8x1,25	20
20	M10x1,25	22
25	M10x1,25	22
32	M10x1,25	22
40	M10x1,25	22
50	M12x1,25	24
63	M12x1,25	24
80	M16x1,5	32
100	M20x1,5	40

NSK . - .... F

THREADED FEMALE PISTON ROD VERSION
VERSIONE STELO FILETTATO FEMMINA



STANDARD ISO 21287

Ø	ØD1	P
16	M4	8
20	M6	10
25	M6	10
32	M8	12
40	M8	12
50	M10	16
63	M10	16
80	M12	20
100	M12	20

STANDARD UNITOP

Ø	ØD1	P
16	M4	8
20	M5	10
25	M5	10
32	M6	12
40	M6	12
50	M8	12
63	M8	14
80	M10	15
100	M12	20

NSK . - .. SEA

SIMPLE ACTING FRONT SPRING
SEMPLICE EFFETTO MOLLA ANTERIORE

SEA/SEP SPRING FORCE (N) STROKE 0 - 25 mm
SEA/SEP FORZE MOLLA* (N) *CORSA 0 - 25 mm

Ø	F spring max (stroke 0 mm) *F molla max* (corsa 0 mm)	F spring min (stroke 25 mm) *F molla min* (corsa 25 mm)	H ISO 21287	H UNITOP
16	21	12	37 (±0,5)	38 (±0,5)
20	39	22	37 (±0,5)	38 (±0,5)
25	45	28	39 (±0,5)	39,5 (±0,5)
32	45	28	44 (±0,5)	44,5 (±0,5)
40	61	39	45 (±0,7)	45,5 (±0,7)
50	90	58	45 (±0,7)	45,5 (±0,7)
63	95	62	49 (±0,8)	50 (±0,8)
80	150	115	54 (±0,8)	56 (±0,8)
100	160	125	67 (±1,0)	66,5 (±1,0)

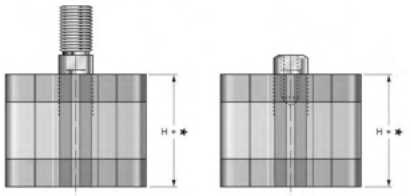
NSK . - .. SEP

SIMPLE ACTING REAR SPRING
SEMPLICE EFFETTO MOLLA POSTERIORE

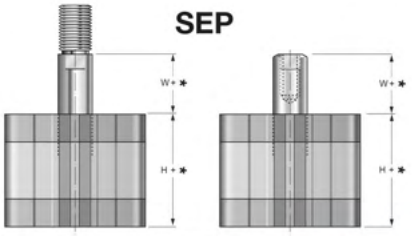
SEA/SEP SPRING FORCE (N) STROKE 26 - 50 mm
SEA/SEP FORZE MOLLA* (N) *CORSA 26 - 50 mm

Ø	F spring max (stroke 26 mm) *F molla max* (corsa 26 mm)	F spring min (stroke 50 mm) *F molla min* (corsa 50 mm)	H ISO 21287	H UNITOP
16	21	12	47 (±0,5)	48 (±0,5)
20	39	22	47 (±0,5)	48 (±0,5)
25	45	28	59 (±0,5)	59,5 (±0,5)
32	45	28	64 (±0,5)	64,5 (±0,5)
40	61	39	65 (±0,7)	65,5 (±0,7)
50	90	58	65 (±0,7)	65,5 (±0,7)
63	95	62	69 (±0,8)	70 (±0,8)
80	150	115	84 (±0,8)	86 (±0,8)
100	160	125	97 (±1,0)	96,5 (±1,0)

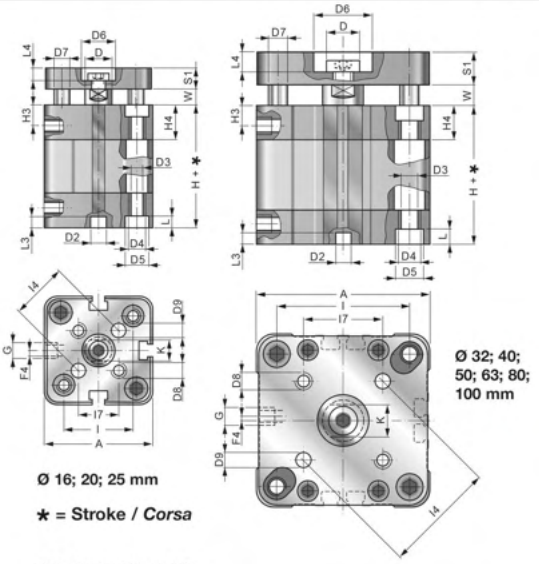
SEA



SEP



*** = Stroke / *Corsa***



NSK . - .. AR

DOUBLE ACTING MAGNETIC CYLINDER NON ROTATING
CILINDRO MAGNETICO A DOPPIO EFFETTO ANTIROTATIVO

STANDARD ISO 21287

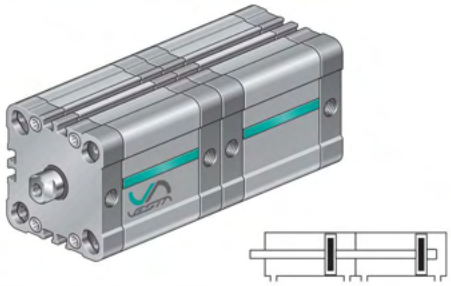
Ø	A	ØD	ØD2	ØD3	ØD4	ØD6	ØD7	ØD8	ØD9	G	H3	H4	I	I4	I7	K	L	L3	L4	F4	S1	W	H	Code / *Codice*
16	29,2	8	6	3,3	M4	9	5	M3	3	M5	7	12,8	18	14	9,9	6	3,5	2,2	4	0	6	4,5	37 (±0,5)	**NSKI 16-... AR**
20	37	10	6	4,2	M5	11	5	M4	4	M5	7	12,3	22	17	12	8	4,2	2,5	5	4	8	4,5	37 (±0,5)	**NSKI 20-... AR**
25	41	10	6	4,2	M5	14	6	M5	5	M5	7,5	13,5	26	22	15,6	8	4,2	2,5	5	3	8	5,5	39 (±0,5)	**NSKI 25-... AR**
32	49,2	12	6	5,2	M6	17	8	M5	5	G1/8	7,5	15	32,5	28	19,8	10	4,5	2	6,5	0	10	6	44 (±0,5)	**NSKI 32-... AR**
40	57,2	12	6	5,2	M6	17	10	M5	5	G1/8	7,5	15	38	33	23,3	10	4,2	2	6,5	0	10	6,5	45 (±0,7)	**NSKI 40-... AR**
50	67	16	8	6,7	M8	22	10	M6	6	G1/8	7,5	14,6	46,5	42	29,7	13	4,7	2,5	7,5	0	12	7,5	45 (±0,7)	**NSKI 50-... AR**
63	80	16	8	6,7	M8	22	10	M6	6	G1/8	8	15,5	56,5	50	35,4	13	5,2	2,5	7,5	0	12	7,5	49 (±0,8)	**NSKI 63-... AR**
80	102,6*	20	8	8,5	M10	28	14	M8	8	G1/8	9	17	72	65	46	17	5,2	2,5	9	0	14	8	54 (±0,8)	**NSKI 80-... AR**
100	124*	25	8	8,5	M10	30	14	M10	10	G1/4*	10	20	89	80	56,6	22	5,2	3	10	0	14	10	67 (±1,0)	**NSKI 100-... AR**

STANDARD UNITOP

Ø	A	ØD	ØD2	ØD3	ØD4	ØD6	ØD7	ØD8	ØD9	G	H3	H4	I	I4	I7	K	L	L3	L4	F4	S1	W	H	Code / *Codice*
16	29,2	8	6	3,3	M4	9	5	M3	3	M5	7	12,8	18	14	9,9	6	3,5	2,2	4	0	6	4,5	38 (±0,5	**NSKU 16-... AR**
20	37	10	6	4,2	M5	11	5	M4	4	M5	7	12,3	22	17	12	8	4,2	2,5	5	4	8	4,5	38 (±0,5)	**NSKU 20-... AR**
25	41	10	6	4,2	M5	14	6	M5	5	M5	7,5	13,5	26	22	15,6	8	4,2	2,5	5	3	8	5,5	39,5 (±0,5)	**NSKU 25-... AR**
32	49,2	12	6	5,2	M6	17	8	M5	5	G1/8	7,5	15	32	28	19,8	10	4,5	2	6,5	0	10	6	44,5 (±0,5)	**NSKU 32-... AR**
40	57,2	12	6	5,2	M6	17	10	M5	5	G1/8	7,5	15	42	33	23,3	10	4,2	2	6,5	0	10	6,5	45,5 (±0,7)	**NSKU 40-... AR**
50	67	16	8	6,7	M8	22	10	M6	6	G1/8	7,5	14,6	50	42	29,7	13	4,7	2,5	7,5	0	12	7,5	45,5 (±0,7)	**NSKU 50-... AR**
63	80	16	8	8,5	M10	22	10	M6	6	G1/8	8	15,5	62	50	35,4	13	5,2	2,5	7,5	0	12	7,5	50 (±0,8)	**NSKU 63-... AR**
80	102,6	20	8	8,5	M10	28	14	M8	8	G1/8	9	17	82	65	46	17	5,2	2,5	9	0	14	8	56 (±0,8)	**NSKU 80-... AR**
100	124	25	8	8,5	M10	30	14	M10	10	G1/4	10	20	103	80	56,6	22	5,2	3	10	0	14	10	66,5 (±1,0)	**NSKU 100-... AR**

NSK ... TN2 ...

MULTI-THRUST TANDEM
TANDEM MULTISPINTA

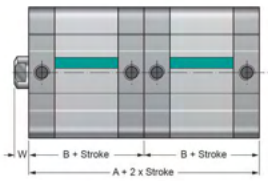


NSK□ □□/ □□□ TN2 □ □

- ISO 21287 I / UNITOP U
- Stroke / Corsa (mm):
- Bore / Alesaggio (mm):
  - Ø32 32
  - Ø40 40
  - Ø50 50
  - Ø63 63
  - Ø80 80
  - Ø100 ...100
- M Threaded male piston rod / Cilindro stelo filettato maschio
- F Threaded female piston rod / Cilindro stelo filettato femmina
- P Through rod cylinder / Cilindro stelo passante

Ø	A	B	ISO 21287 Code - Codice	UNITOP Code - Codice
32	88,4	44,2	NSKI 32/... TN...	NSKU 32/... TN...
40	90,4	45,2	NSKI 40/... TN...	NSKU 40/... TN...
50	90,4	45,2	NSKI 50/... TN...	NSKU 50/... TN...
63	99	49,5	NSKI 63/... TN...	NSKU 63/... TN...
80	110	55	NSKI 80/... TN...	NSKU 80/... TN...
100	133,4	66,7	NSKI 100/... TN...	NSKU 100/... TN...

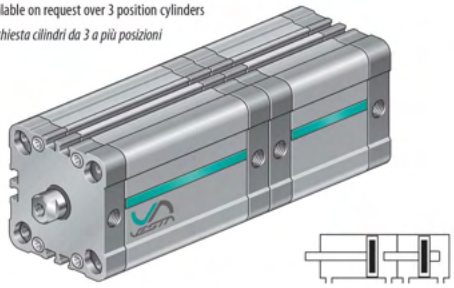
For other dimensions please see **NSK** standard cylinder
*Per altre dimensioni vedere cilindri **NSK** standard*



NSK ... BS ...

MULTI-POSITION
MULTIPOSIZIONE

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

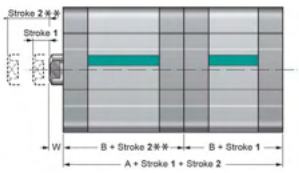


NSK□ □□/ □□□-□□□ BS□

- ISO 21287 I / UNITOP U
- 1° Stroke / Corsa (mm):
- 2°** Stroke / Corsa (mm):
- Bore / Alesaggio (mm):
  - Ø32 32
  - Ø40 40
  - Ø50 50
  - Ø63 63
  - Ø80 80
  - Ø100 ...100
- M Threaded male piston rod / Cilindro stelo filettato maschio
- F Threaded female piston rod / Cilindro stelo filettato femmina

Ø	A	B	ISO 21287 Code - Codice	UNITOP Code - Codice
32	88,4	44,2	NSKI 32/... BS...	NSKU 32/... BS...
40	90,4	45,2	NSKI 40/... BS...	NSKU 40/... BS...
50	90,4	45,2	NSKI 50/... BS...	NSKU 50/... BS...
63	99	49,5	NSKI 63/... BS...	NSKU 63/... BS...
80	110	55	NSKI 80/... BS...	NSKU 80/... BS...
100	133,4	66,7	NSKI 100/... BS...	NSKU 100/... BS...

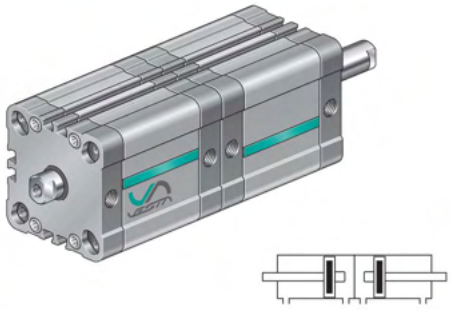
For other dimensions please see **NSK** standard cylinder
*Per altre dimensioni vedere cilindri **NSK** standard*



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

NSK ... CNP ...

REAR OPPOSED
CONTRAPPOSTI POSTERIORI

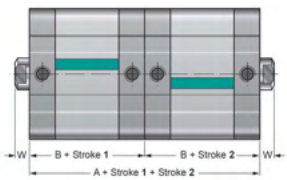


NSK□ □□/ □□□-□□□ CNP□

- ISO 21287 I / UNITOP U
- 1° Stroke / Corsa (mm):
- 2° Stroke / Corsa (mm):
- Bore / Alesaggio (mm):
  - Ø16 16
  - Ø20 20
  - Ø25 25
  - Ø32 32
  - Ø40 40
  - Ø50 50
  - Ø63 63
  - Ø80 80
  - Ø100 ...100
- M Threaded male piston rod / Cilindro stelo filettato maschio
- F Threaded female piston rod / Cilindro stelo filettato femmina

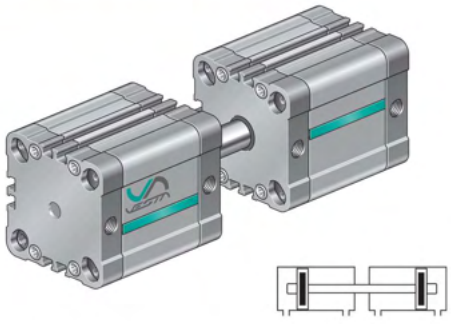
Ø	A	B	ISO 21287 Code - Codice	UNITOP Code - Codice
16	76	38	NSKI 16/... CNP...	NSKU 16/... CNP...
20	76	38	NSKI 20/... CNP...	NSKU 20/... CNP...
25	79	39,5	NSKI 25/... CNP...	NSKU 25/... CNP...
32	88,4	44,2	NSKI 32/... CNP...	NSKU 32/... CNP...
40	90,4	45,2	NSKI 40/... CNP...	NSKU 40/... CNP...
50	90,4	45,2	NSKI 50/... CNP...	NSKU 50/... CNP...
63	99	49,5	NSKI 63/... CNP...	NSKU 63/... CNP...
80	110	55	NSKI 80/... CNP...	NSKU 80/... CNP...
100	133,4	66,7	NSKI 100/... CNP...	NSKU 100/... CNP...

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



NSK ... CNF ...

FRONT OPPOSED
CONTRAPPOSTI ANTERIORI

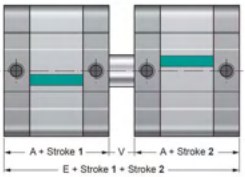


NSK□ □□/ □□□-□□□ CNF

- ISO 21287 I / UNITOP U
- 1° Stroke / Corsa (mm):
- 2° Stroke / Corsa (mm):
- Bore / Alesaggio (mm):
  - Ø16 16
  - Ø20 20
  - Ø25 25
  - Ø32 32
  - Ø40 40
  - Ø50 50
  - Ø63 63
  - Ø80 80
  - Ø100 ...100

Ø	E	A	V	ISO 21287 Code - Codice	UNITOP Code - Codice
16	85	38	9	NSKI 16/... CNF...	NSKU 16/... CNF...
20	85	38	9	NSKI 20/... CNF...	NSKU 20/... CNF...
25	90	39,5	11	NSKI 25/... CNF...	NSKU 25/... CNF...
32	100,4	44,2	12	NSKI 32/... CNF...	NSKU 32/... CNF...
40	103,4	45,2	13	NSKI 40/... CNF...	NSKU 40/... CNF...
50	105,5	45,2	15	NSKI 50/... CNF...	NSKU 50/... CNF...
63	114	49,5	15	NSKI 63/... CNF...	NSKU 63/... CNF...
80	126	55	16	NSKI 80/... CNF...	NSKU 80/... CNF...
100	153,4	66,7	20	NSKI 100/... CNF...	NSKU 100/... CNF...

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



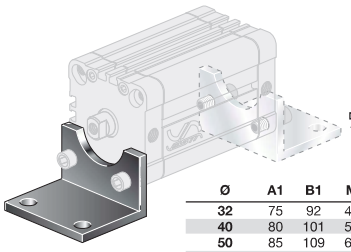
FIXING ACCESSORIES FOR **ISO 21287** CYLINDERS / *ACCESSORI DI FISSAGGIO PER CILINDRI* ***ISO 21287***

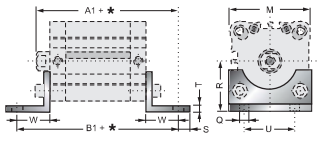
Note: the fixing screws are not included in the supply of the fittings / *le viti di fissaggio non sono comprese nella fornitura degli accessori.*

XP/ ..

FOOT MOUNTING
MONTAGGIO A PIEDINI

★ = Stroke / *Corsa*





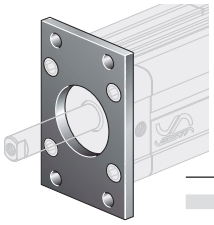
REF. **ISO 15552**

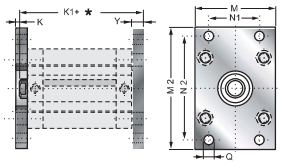
Ø	A1	B1	M	ØQ	R	S	T	U	W	Code - *Codice*
32	75	92	45	7	32	11	4	32	24	XP/32
40	80	101	52	9	36	15	4	36	28	XP/40
50	85	109	65	9	45	15	5	45	32	XP/50
63	89	113	75	9	50	15	5	50	32	XP/63
80	105	136	95	12	63	20	6	63	41	XP/80
100	118	149	115	14	71	25	6	75	41	XP/100

XFL/ ..

FLANGE MOUNTING
MONTAGGIO A FLANGIA

★ = Stroke / *Corsa*





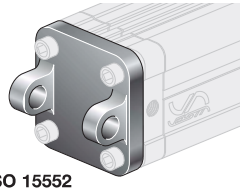
REF. **ISO 15552**

Ø	K	K1	M	M2	N1	N2	ØQ	Y	Code - *Codice*
32	3	61	45	80	32	64	7	10	XFL/32
40	3	62	52	90	36	72	9	10	XFL/40
50	4	65	65	110	45	90	9	12	XFL/50
63	4	69	75	120	50	100	9	12	XFL/63
80	6	80	95	150	63	126	12	16	XFL/80
100	6	93	115	170	75	150	14	16	XFL/100

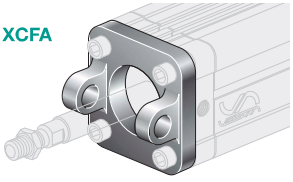
XCF/ ..

FRONT AND REAR CLEVIS (FEMALE) MOUNTING
MONTAGGIO CERNIERA FEMMINA ANT. E POST.

XCF



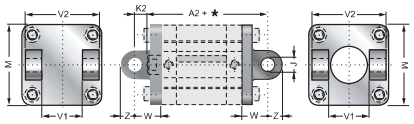
XCFA



REF. **ISO 15552**

★ = Stroke / *Corsa*

XCF



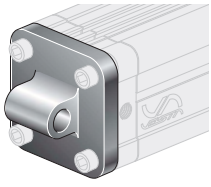
XCFA

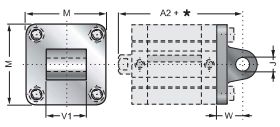
Ø	A2	ØJ^{H9}	K2	M	V1	V2	W	Z	Front code - *Cod. ant.*	Rear code - *Cod. post.*
32	73	10	15	45	26	45	22	11	XCFA/32	XCF/32
40	77	12	18	52	28	52	25	13	XCFA/40	XCF/40
50	80	12	19	65	32	60	27	13	XCFA/50	XCF/50
63	89	16	24	75	40	70	32	17	XCFA/63	XCF/63
80	100	16	26	95	50	90	36	17	XCFA/80	XCF/80
100	118	20	31	115	60	110	41	21	XCFA/100	XCF/100

XCM/ ..

CLEVIS (MALE) MOUNTING
MONTAGGIO A CONTROCERNIERA MASCHIO

★ = Stroke / *Corsa*





REF. **ISO 15552**

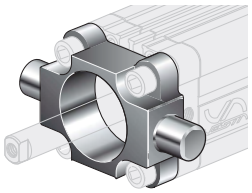
Ø	A2	ØJ^{H7}	M	V1	W	Code - *Codice*
32	73	10	47	26	22	XCM/32
40	77	12	54	28	25	XCM/40
50	80	12	66	32	27	XCM/50
63	89	16	78	40	32	XCM/63
80	100	16	98	50	36	XCM/80
100	118	20	115	60	41	XCM/100

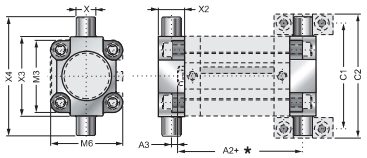
XCBF/ ..

FLOATING FRONT HINGE MOUNTING
MONTAGGIO CERNIERA OSCILLANTE ANTERIORE

REF. **ISO 15552**

★ = Stroke / *Corsa*





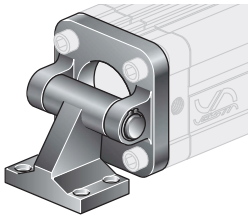
Ø	A2	A3	C1	C2	M3	M6	ØX^{e9}	X2	X3	X4	Code - *Codice*
32	58,5	0,5	71	86	45	45	12	15	50	74	XCBF/32
40	62	3	87	105	54	54	16	20	63	95	XCBF/40
50	63	2	99	117	64	64	16	20	75	107	XCBF/50
63	69,5	4,5	16	136	75	75	20	25	90	130	XCBF/63
80	76,5	2,5	36	156	93	93	20	25	110	150	XCBF/80
100	92	5	64	189	110	110	25	30	132	182	XCBF/100

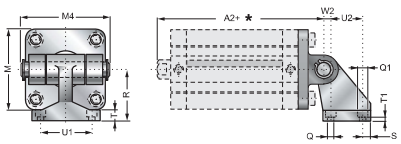
XAS/ ..

REAR HINGE HORIZONTAL MOUNTING
MONTAGGIO A CONTROCERNIERA ORIZZONTALE

REF. **CETOP RP107P**

★ = Stroke / *Corsa*



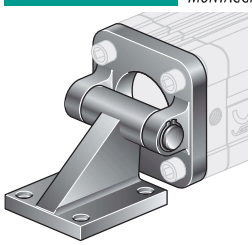


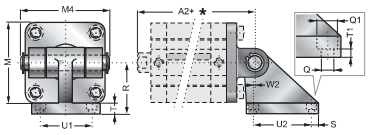
Ø	A2	M	M4	ØQ	ØQ1	R	S	T	T1	U1	U2	W2	Code - *Codice*
32	73	45	54	7	11	32	6,5	8	6,5	38	18	3	XAS/32
40	77	52	63	7	11	36	6,5	10	8,5	41	22	2	XAS/40
50	80	65	71	9	15	45	7,5	12	10,5	50	30	3	XAS/50
63	89	75	81	9	15	50	7,5	14	12,5	52	35	2	XAS/63
80	100	95	101	11	18	63	10	14	11,5	66	40	7	XAS/80
100	118	115	123	11	18	71	10	17	14,5	76	50	5	XAS/100

XASV/ ..

REAR HINGE HORIZONTAL MOUNTING
MONTAGGIO A CONTROCERNIERA ORIZZONTALE

★ = Stroke / *Corsa*



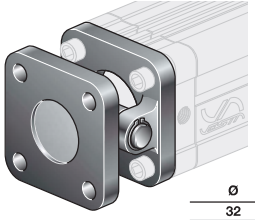


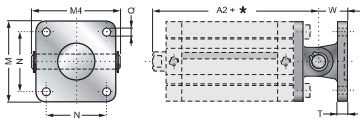
Ø	A2	M	M4	ØQ	ØQ1	R	S	T	T1	U1	U2	W2	Code - *Codice*
32	73	45	54	7	11	32	8	10	5	32,5	32,5	0	XASV/32
40	77	52	63	7	11	36	8,5	10	5	38	38	0	XASV/40
50	80	65	71	9	15	45	10	12	5	46,5	46,5	0	XASV/50
63	89	75	81	9	15	50	10	12	5	56,5	56,5	0	XASV/63
80	100	95	101	11	18	63	12,5	14	6	72	72	0	XASV/80
100	118	115	123	11	18	73	13	16	6	89	89	0	XASV/100

XANL/ ..

REAR HINGE VERTICAL MOUNTING "L" SERIES
MONTAGGIO A CONTROCERNIERA VERTICALE SERIE "L"

★ = Stroke / *Corsa*





Ø	A2	M	M4	N	ØQ	T	W	Code - *Codice*
32	73	45	54	32,5	7	10	22	XANL/32
40	77	52	63	38	7	10	25	XANL/40
50	80	65	71	46,5	9	12	27	XANL/50
63	89	75	81	56,5	9	12	32	XANL/63
80	100	95	101	72	11	16	36	XANL/80
100	118	115	123	89	11	16	41	XANL/100

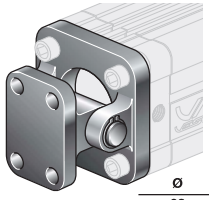
FIXING ACCESSORIES FOR **ISO 21287** CYLINDERS / *ACCESSORI DI FISSAGGIO PER CILINDRI* ***ISO 21287***

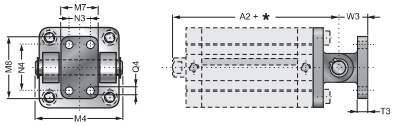
Note: the fixing screws are not included in the supply of the fittings / *le viti di fissaggio non sono comprese nella fornitura degli accessori.*

XANN/ ..

REAR HINGE VERTICAL MOUNTING "N" SERIES
MONTAGGIO A CONTROCERNIERA VERTICALE SERIE "N"

★ = Stroke / *Corsa*



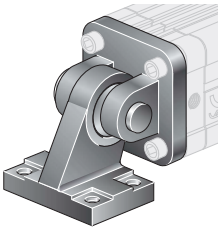


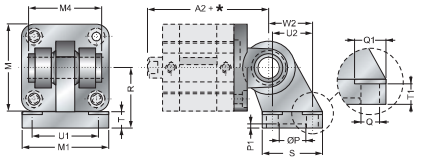
Ø	A2	M4	M7	M8	N3	N4	ØQ4	T3	W3	Code - *Codice*
32	73	54	25	40	-	28	7	8	18	XANN/32
40	77	63	28	52	16	38	9	10	26	XANN/40
50	80	71	32	52	16	38	9	10	26	XANN/50
63	89	81	40	75	25	54	11	12	34	XANN/63
80	100	101	50	75	25	54	11	12	34	XANN/80
100	118	123	60	115	32	90	14	16	41	XANN/100

XAS-SN/ ..

REAR HINGE MOUNTING WITH NARROW ROD EYE
MONTAGGIO A CONTROCERNIERA SNODATA STRETTA

★ = Stroke / *Corsa*



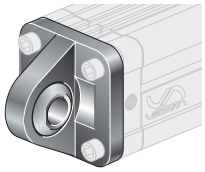


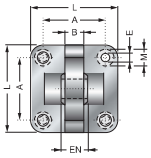
Ø	A2	M	M1	M4	ØP	P1	ØQ	ØQ1	R	S	T	T1	U1	U2	W2	Code - *Codice*
32	73	45	51	41	20	3	6,6	11	32	31	10	8,5	38	18	21	XAS-SN/32
40	77	52	54	48	20	3	6,6	11	36	35	10	8,5	41	22	24	XAS-SN/40
50	80	65	65	54	20	3	9	15	45	45	12	10,5	50	30	33	XAS-SN/50
63	89	75	67	60	20	3	9	15	50	50	12	10,5	52	35	37	XAS-SN/63
80	100	95	86	75	20	3	11	18	63	60	14	11,5	66	40	47	XAS-SN/80
100	118	115	96	85	20	3	11	18	71	70	15	12,5	76	50	55	XAS-SN/100

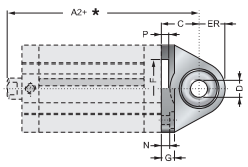
XCM-SN-AC/ ..

CLEVIS (MALE) WITH ROD EYE
CERNIERA MASCHIO CON SNODO

★ = Stroke / *Corsa*







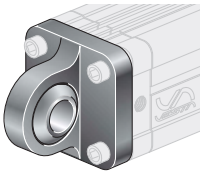
STEEL / *ACCIAIO*

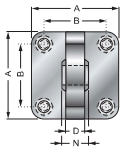
Ø	A2	A	B	C	ØD	EN	ER	F	G	E	L	M	N	P	Code - *Codice*
32	73	32,5	10,5	22	10	14	15	30	10	6,6	45	10,5	5,5	5	XCM-SN-AC/32
40	77	38	12	25	12	16	18	35	10	6,6	55	11	5,5	5	XCM-SN-AC/40
50	80	46,5	15	27	16	21	20	40	10	9	65	15	6,5	5	XCM-SN-AC/50
63	89	56,5	15	32	16	21	23	45	12	9	75	15	6,5	5	XCM-SN-AC/63
80	100	72	18	36	20	25	27	45	14	11	95	18	10	5	XCM-SN-AC/80
100	118	89	18	41	20	25	30	55	16	11	115	18	10	5	XCM-SN-AC/100

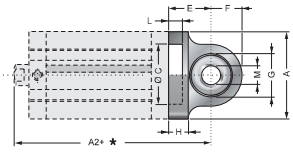
XCM-SN-AL/ ..

CLEVIS (MALE) WITH ROD EYE
CERNIERA MASCHIO CON SNODO

★ = Stroke / *Corsa*







ALUMINIUM ALLOY / *LEGA DI ALLUMINIO*

Ø	A2	A	B	C	D	E	F	H	L	ØM	N	Code - *Codice*
32	73	45	32,5	30	10,5	22	16	9	5	10	14	XCM-SN-AL/32
40	77	52	38	35	12	25	19	9	5	12	16	XCM-SN-AL/40
50	80	65	46,5	40	15	27	21	11	5	16	21	XCM-SN-AL/50
63	89	75	56,5	45	15	32	24	11	5	16	21	XCM-SN-AL/63
80	100	95	72	45	18	36	28,5	14	5	20	25	XCM-SN-AL/80
100	118	115	89	55	18	41	30	14	5	20	25	XCM-SN-AL/100

PISTON-ROD FIXING ACCESSORIES FOR **ISO 21287** CYLINDERS ..... **SEE PAGE A-26**
ACCESSORI DI FISSAGGIO ALLO STELO *PER CILINDRI* ***ISO 21287*** ..... ***VEDI PAGINA A-26***

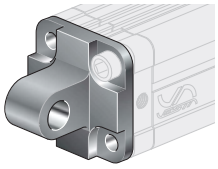
FIXING ACCESSORIES FOR **UNITOP** CYLINDERS / *ACCESSORI DI FISSAGGIO PER CILINDRI* ***UNITOP***

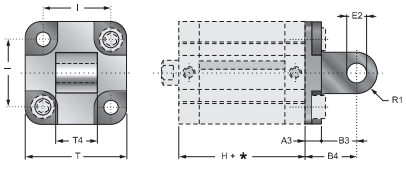
Note: the fixing screws are not included in the supply of the fittings / *le viti di fissaggio non sono comprese nella fornitura degli accessori.*

SKCM/ ..

MALE CLEVIS MOUNTING
MONTAGGIO A CERNIERA MASCHIO

★ = Stroke / *Corsa*





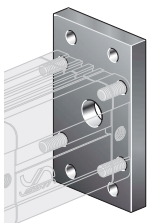
H = See previous pages
Vedi pagine precedenti

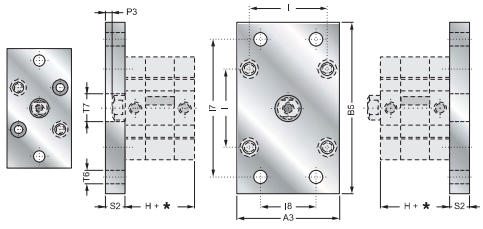
Ø	A3	B3	B4	E2	H	I	R1	T	T4	Code - *Codice*
16	6	10	16	6	38	18	6	27	12	SKCM/16
20	6	14	20	8	38	22	8	34	16	SKCM/20
25	6	14	20	8	39,5	26	8	38	16	SKCM/25

SKFL/ ..

FLANGE MOUNTING
MONTAGGIO A FLANGIA

★ = Stroke / *Corsa*





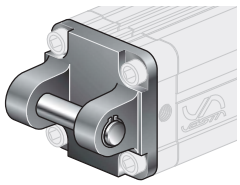
H = See previous pages
Vedi pagine precedenti

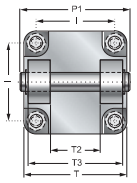
Ø	A3	B5	H	I	I7	I8	P3	S2	T6	T7	Code - *Codice*
16	29	55	38	18	43	-	5,5	10	5,5	10	SKFL/16
20	36	70	38	22	55	-	5,5	10	6,5	12	SKFL/20
25	40	76	39,5	26	60	-	4,5	10	6,5	12	SKFL/25
32	50	80	44,5	32	65	32	4	10	7	14	SKFL/32
40	60	102	45,5	42	82	36	3,5	10	9	14	SKFL/40
50	68	110	45,5	50	90	45	4,5	12	9	18	SKFL/50
63	87	130	50	62	110	50	7,5	15	9	18	SKFL/63
80	107	160	56	82	135	63	7	15	12	23	SKFL/80
100	128	190	66,5	103	163	75	5	15	14	28	SKFL/100

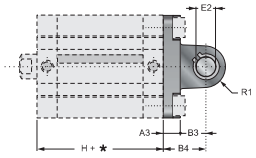
SKCF/ ..

FEMALE CLEVIS MOUNTING
MONTAGGIO A CERNIERA FEMMINA

★ = Stroke / *Corsa*







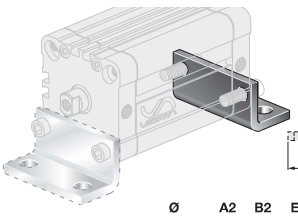
H = See previous pages
Vedi pagine precedenti

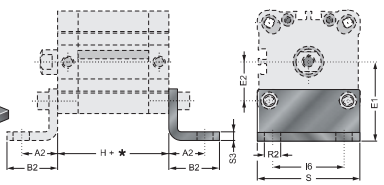
Ø	A3	B3	B4	E2	H	I	P1	R1	T	T2	T3	Code - *Codice*
32	9	13	22	10	44,5	32	53	10	48	26	45	SKCF/32
40	9	16	25	12	45,5	42	60	12,5	58	28	52	SKCF/40
50	11	16	27	12	45,5	50	68	12,5	66	32	60	SKCF/50
63	11	21	32	16	50	62	78	15	83	40	70	SKCF/63
80	13	23	36	16	56	82	98	15	102	50	90	SKCF/80
100	15	26	41	20	66,5	103	118	20	123	60	110	SKCF/100

SKP/ ..

FOOT MOUNTING
MONTAGGIO A PIEDINI

★ = Stroke / *Corsa*





H = See previous pages
Vedi pagine precedenti

Ø	A2	B2	E1	E2	H	I6	R2	S	S3	Code - *Codice*
16	13	17,5	22	9	38	18	5,5	30	3	SKP/16
20	16	22	27	11	38	22	6,5	36	4	SKP/20
25	16	22	30	13	39,5	26	6,5	40	4	SKP/25
32	18	26	32	16	44,5	32	6,5	50	5	SKP/32
40	20	28	42,5	21	45,5	42	9	60	5	SKP/40
50	24	32	47	25	45,5	50	9	68	6	SKP/50
63	27	39	59,5	31	50	62	11	84	6	SKP/63
80	30	42	65,5	41	56	82	11	102	8	SKP/80
100	33	45	78	51,5	66,5	103	13,5	123	8	SKP/100

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

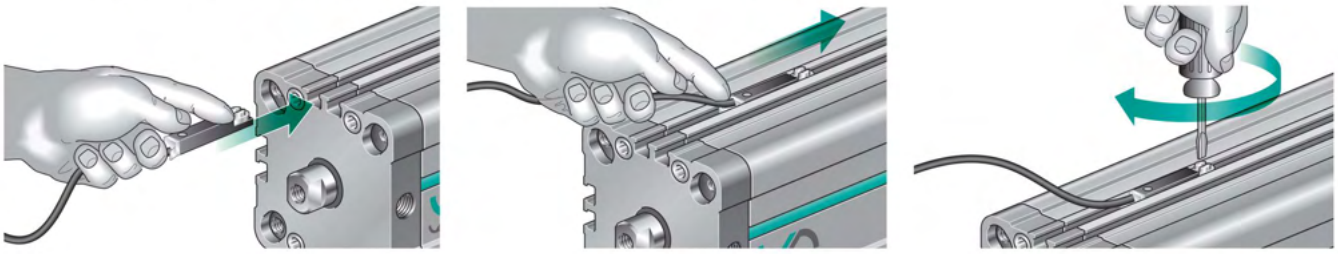
Seals kit code = **Cylinder code** + **Bore** + **Versions** + **- SG**: (The kit includes all seals).
Codice del kit = ***Codice del cilindro*** + ***Alesaggio*** + ***Versioni*** + **- SG**: *(Il kit comprende tutte le guarnizioni necessarie).*
Example / *Esempio:* **NSK 40 CNP - SG**

MAGNETIC SWITCHES FOR NSK CYLINDERS / *FINECORSA MAGNETICI PER CILINDRI NSK*

VNCR2 **VNPR2** **VNCE3** **VNPE3**

Characteristic magnetic switches see **GENERAL CATALOGUE - Pag. A-19; A-33.**
Caratteristiche finecorsa magnetico vedi ***CATALOGO GENERALE - Pag. A-19;*** **A-33.**

MAGNETIC SWITCH POSITIONING / *POSIZIONAMENTO DEI FINECORSA MAGNETICI*



SHORT STROKE CYLINDERS
CILINDRI A CORSA BREVE

SERIE **SH**

SH □-□□-□□□-□ □□

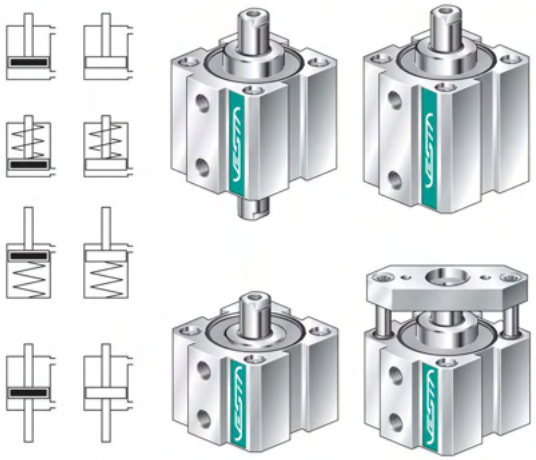
- **D** Double acting — *Cilindro doppio effetto*
- **S** Single acting — *Cilindro semplice effetto*
- **DM** Double effect magnetic — *Doppio effetto magnetico*
- **SM** Simple effect magnetic — *Semplice effetto magnetico*

Stroke / *Corsa* (mm):

- **VS** Viton rod seal — *Guarnizione dello stelo in Viton*
- **VV** Viton all seals — *Tutte le guarnizioni in Viton*
- **P** Through rod cylinder — *Cilindro stelo passante*
- **AR** Non rotating — *Cilindro antirotazione*

Bore / *Alesaggio* (mm):

Ø12	**12**	Ø63	**63**
Ø16	**16**	Ø80	**80**
Ø20	**20**	Ø100 ...	**100**
Ø25	**25**	Ø125 ...	**125**
Ø32	**32**	Ø160 ...	**160**
Ø40	**40**	Ø200 ...	**200**
Ø50	**50**		



Features of reed switches see:
Caratteristiche finecorsa magnetici: ..... **Pag. A-38**

TECHNICAL FEATURES

Piston rod	Stainless steel X10 Cr Ni S 18-09 (ø125÷200 X 20 Cr 13)
Barrel	Anodized profiled aluminium tube.
Seals	NBR rubber and polyurethane.
Cushioning	Mechanical buffers.

Ambient temperature range	-20 °C ÷ +60 °C.
Temperature range of medium	0 °C ÷ +30 °C.
Lubrication	Not required.
Medium	Filtered air.
Max operating pressure	10 bar.

CARATTERISTICHE TECNICHE

Stelo	*Acciaio inox X10 Cr Ni S 18-09 (ø125÷200 X 20 Cr 13)*
Camicia	*Tubo profilato ed anodizzato d' alluminio.*
Guarnizioni	*NBR e poliuretano.*
Ammortizzatori	*Smorzatore meccanici d' urto.*

Temperatura ambiente	*-20 °C ÷ +60 °C.*
Temperatura fluido	*0 °C ÷ +30 °C.*
Lubrificazione	*Non necessaria.*
Fluido	*Aria filtrata.*
Pressione max d'esercizio	*10 bar.*