



Specifications

Bore size(mm)		32	40	50	63	80	100	125
Port size		1/8"	1/4"	1/4"	3/8"	3/8"	1/2"	1/2"
Piston rod terminal		External thread						
Piston rod thread		M10x1.25	M12x1.25	M16x1.5	M16x1.5	M20x1.5	M20x1.5	M27x2
Buffer pattern		Flexible cushioning rings/pads at both ends						
		Pneumatic cushioning, adjustable at both ends						
Buffer length (mm)		20	20	22	22	32	32	42
Theoretical force at 6 bar, pushing	(N)	483	754	1178	1870	3016	4712	7363
	S2(N)	415	633	990	1682	2721	4418	6881
Theoretical force at 6 bar, retracting		415	633	990	1682	2721	4418	6881
Maximum torque Q on the piston rod (Nm)		0.8	1.1	1.5	1.5	3	3	-
Length of 0 mm stroke (mm)		146	163	179	194	218	233	285
Width (mm)		45	54	64	75	93	110	134
Height (mm)		45	54	64	75	93	110	134

Note: PT thread, G thread and NPT thread are available.

Symbol

Without position sensing



With position sensing



Product feature

1. The Max. stroke is 2000 mm;
2. There are profile grooves for proximity switch on three sides;
3. There are many derivative products, which are suitable for customization occasions;
4. Providing spare parts services;
5. Providing maintenance services.

Ordering code

DNC	50	100	P	A	Q	S6
Model	Bore size	Stroke	Position sensing		Piston rod type	
DNC Double-acting standard cylinder	32	25,40,50,80,100, 10...2000	Blank	Without position sensing	Blank	One end piston rod
	40	125,160,200,250, 10...2000	A	Via proximity sensor	S2	Double-ended piston rod
	50	320,400,500				
	63					
	80					
	100					
	125					
Acting type	Torsion resistance		Heat resistance temperature			
P Flexible cushioning rings/pads at both ends	Blank	without	S6	Heat-resistant seals, Maximum temperature 120°C		
PPV Pneumatic cushioning, adjustable at both ends	Q	Square piston rod Note 1				

Note: It is not suitable for the maximum stroke products whose piston diameter is $\Phi 125$ mm: 10... 1500 mm.

Examples of orders:

DNC cylinder diameter 63mm, stroke 100mm, with adjustable buffer, with position sensing

Correct model:

DNC-63-100-PPV-A

Examples of orders:

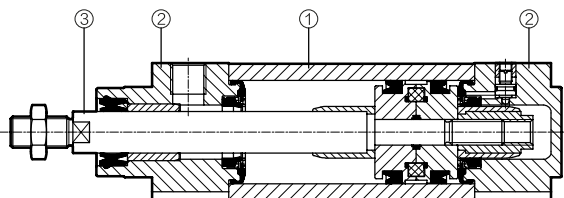
DNC cylinder diameter 80mm, stroke 320mm, with adjustable buffer, with position sensing.

Correct model:

DNC-83-320-PPV-A

Inner structure and material of major parts

DNC



Standard cylinder	Basic version	S6
① Profile barrel	Aluminium alloy	
② Bearing and end caps	Die-cast aluminium	
③ Piston rod	High-alloy steel	
- Seals	Polyurethane, nitrile rubber	Fluoro rubber

Cylinder

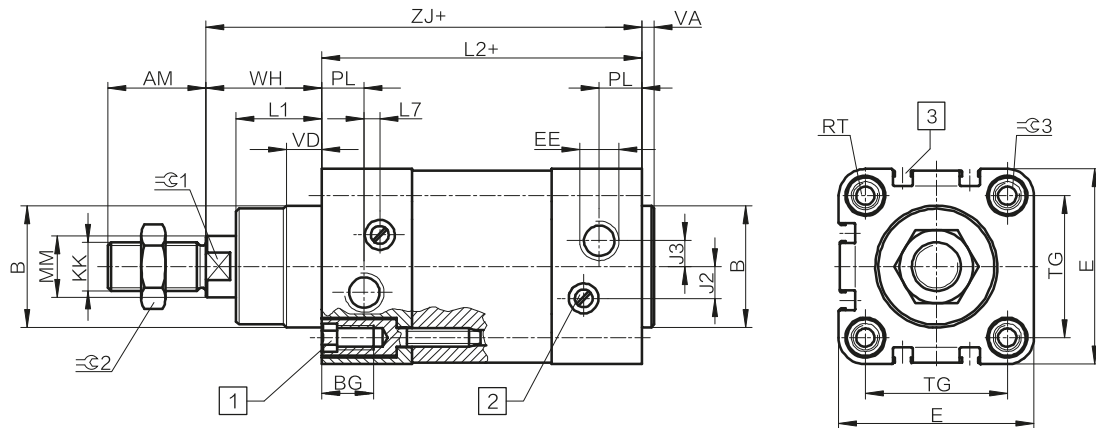
SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

Cylinder

SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
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NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

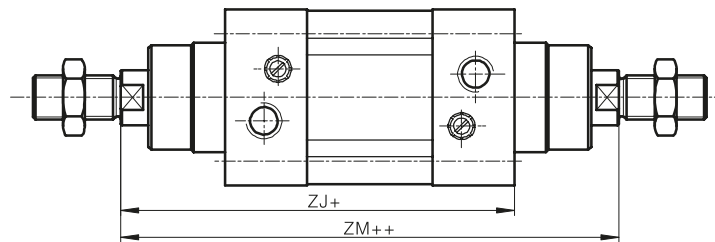
Dimensions

Basic Version



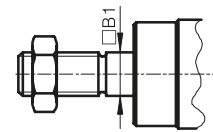
- 1 Six angle bolt, with internal thread, used for mounting accessories
2 Regulating screw for adjustable end-position cushioning
3 Slot for proximity sensor
+ = plus stroke length

S2-Through piston rod



Note: The threads at both ends of the piston rod are identical.

Q-Square piston rod



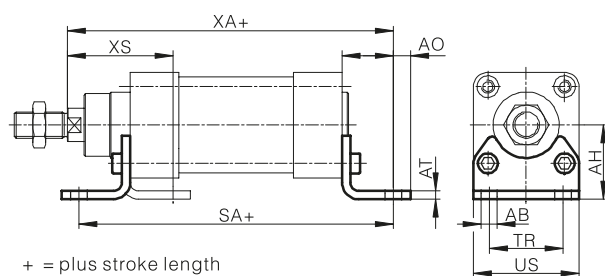
+ = plus stroke length
++ = plus 2x stroke length

Bore size\Item	AM	ΦB d11	□B1	BG	E	EE	J2	J3	KK	L1	L2	L7	ΦMM	PL	RT	TG	VA	VD	WH	ZJ	ZM	⌀C1	⌀C2	⌀C3
32	22	30	10	16	45	1/8"	6	5.2	M10×1.25	18	94	3.3	12	15.6	M6	32.5	4	10	26	120	148	10	16	6
40	24	35	12	16	54	1/4"	8	6	M12×1.25	21.5	105	3.6	16	14	M6	38	4	10.5	30	135	167	13	18	6
50	32	40	16	17	64	1/4"	10.4	8.5	M16×1.5	28	106	5.1	20	14	M8	46.5	4	11.5	37	143	183	17	24	8
63	32	45	16	17	75	3/8"	12.4	10	M16×1.5	28.5	121	6.6	20	17	M8	56.5	4	15	37	158	199	17	24	8
80	40	45	20	17	93	3/8"	12.5	8	M20×1.5	34.7	128	10.5	25	16.4	M10	72	4	15.7	46	174	222	22	30	6
100	40	55	20	17	110	1/2"	12	10	M20×1.5	38.2	138	8	25	18.8	M10	89	4	19.2	51	186	240	22	30	6
125	54	60	-	22	134	1/2"	13	8	M27×2	46	160	14	32	18	M12	110	6	20.5	65	225	291	27	36	8

Attachment Dimensions

Scaffold Installation/HNC

Material:
HNC: Galvanized Steel

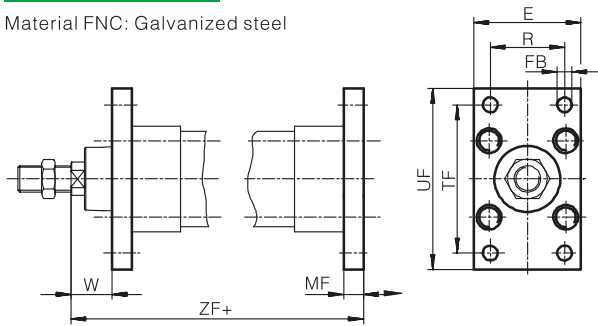


+ = plus stroke length

Bore size\Item	ΦAB	AH	AO	AT	AU	SA		TR	US	XA		XS
						Basic thread	KP			Basic thread	KP	
32	7	32	6.5	4	24	142	187	32	45	144	189	45
40	10	36	9	4	28	161	214	36	54	163	216	53
50	10	45	9.5	5	32	170	237	45	64	175	242	62
63	10	50	12.5	5	32	185	261	50	75	190	266	63
80	12	63	15	6	41	210	305	63	93	215	310	81
100	14.5	71	17.5	6	41	220	318	75	110	230	328	86
125	16.5	90	22	8	45	250	375	90	131	270	395	102

Flange mounting FNC

Material FNC: Galvanized steel

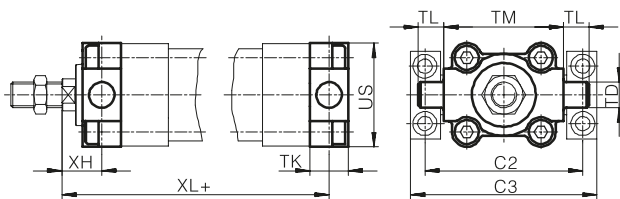


+ = plus stroke length

Bore size\Item	E	ΦFB H13	MF	R	TF	UF	W	ZF	
								Basic type	KP
32	45	7	10	32	64	80	16	130	175
40	54	9	10	36	72	90	20	145	198
50	65	9	12	45	90	110	25	155	222
63	75	9	12	50	100	120	25	170	246
80	93	12	16	63	126	150	30	190	285
100	110	14	16	75	150	175	35	205	303
125	132	16	20	90	180	210	45	245	370

Trunnion flange ZNCF

Material ZNCF: Galvanized steel



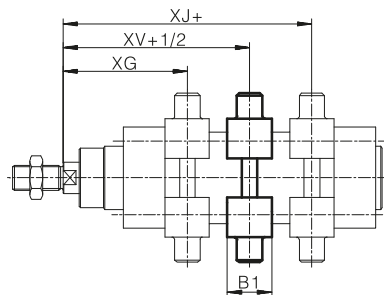
+ = plus stroke length

Bore size\Item	C2	C3	ΦTD e9	TK	TL	TM	US	XH	XL	
									Basic type	KP
32	71	86	12	16	12	50	45	18	128	173
40	87	105	16	20	16	63	54	20	145	198
50	99	117	16	24	16	75	64	25	155	222
63	116	136	20	24	20	90	75	25	170	246
80	136	156	20	28	20	110	93	32	188	183
100	164	189	25	38	25	132	110	32	208	306
125	192	217	25	50	25	160	131	40	250	375

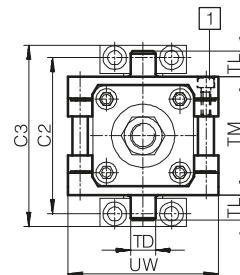
Trunnion installation module ZNCM for basic cylinder DNC

The mounting kit can be attached at any position along the profile barrel of a cylinder.

Material ZNCM: Galvanized steel



+ = plus stroke length
+ 1/2 = plus half stroke length



1 Max. tightening torque

Bore size\Item	B1	C2	C3	ΦTD e9	TL	TM	UW
32	30	71	86	12	12	50	65
40	32	87	105	16	16	63	75
50	34	99	117	16	16	75	95
63	41	116	136	20	20	90	105
80	44	136	156	20	20	110	130
100	48	164	189	25	25	132	145
125	50	192	217	25	25	160	175

Cylinder

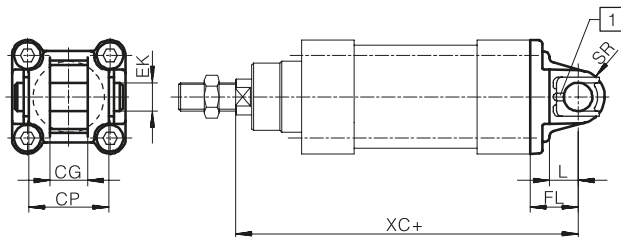
SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
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NMXQ
NMHZ2
NMHC2
NMHL2
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NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

Cylinder

SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
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NCXSW
NMGP
NMGG
NCU
NCUJ
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NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

Swivel flange SNC

Material: Die-cast aluminium



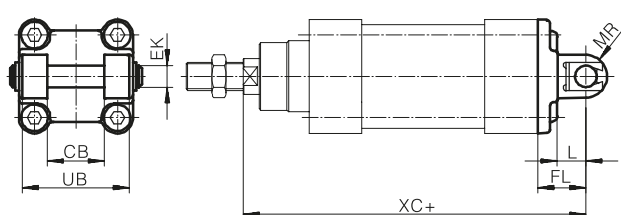
+ = plus stroke length

1 The pivot pin is protected against rotation with a dowel pin.

Bore size/ Item	CG H14	CP h14	ΦEK	FL ±0.2	L	SR	XC	
							Basic type	KP
32	14	34	10	22	13	10	142	187
40	16	40	12	25	16	12	160	213
50	21	45	16	27	16	12	170	237
63	21	51	16	32	21	16	190	266
80	25	65	20	36	22	20	210	305
100	25	75	20	41	27	20	230	328
125	37	97	30	50	30	30	275	400

Swivel flange SNCB

Material SNCB: Die-cast aluminium

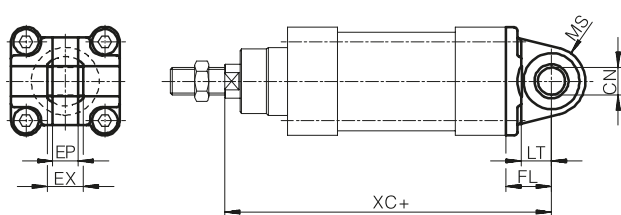


+ = plus stroke length

Bore size/ Item	CB H14	ΦEK e8	FL ±0.2	L	MR	UB h14	XC	
							Basic type	KP
32	26	10	22	13	10	45	142	187
40	28	12	25	16	12	52	160	213
50	32	12	27	16	12	60	170	237
63	40	16	32	21	16	70	190	266
80	50	16	36	22	16	90	210	305
100	60	20	41	27	20	110	230	328
125	70	25	50	30	25	130	275	400

Swivel flange SNCS

Material SNCS: Die-cast aluminium

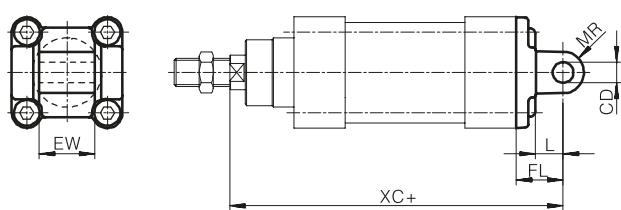


+ = plus stroke length

Bore size/ Item	ΦCN H7	EP +0.2	EX	FL ±0.2	LT	MS	XC	
							Basic type	KP
32	10	10.5	14	22	13	15	142	187
40	12	12	16	25	16	17	160	213
50	16	15	21	27	16	20	170	237
63	16	15	21	32	21	22	190	266
80	20	18	25	36	22	27	210	305
100	20	18	25	41	27	29	230	328
125	30	25	37	50	30	39	275	400

Swivel flange SNCL

Material SNCL: Die-cast aluminium



+ = plus stroke length

Bore size/ Item	ΦCD H9	EW h12	FL ±0.2	L	MR	XC	
						Basic type	KP
32	10	26	22	13	10	142	187
40	12	28	25	16	12	160	213
50	12	32	27	16	12	170	237
63	16	40	32	21	16	190	266
80	16	50	36	22	16	210	305
100	20	60	41	27	20	230	328
125	25	70	50	30	20	275	400