

The shorter the better.

Vesta
SHQ
Series

COMPACT MAGNETIC CYLINDERS FROM Ø12 TO 100

CILINDRI COMPATTI MAGNETICI DA Ø12 A 100





TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Barrel / Camicia	Anodized profiled aluminium tube / Tubo profilato ed anodizzato d'alluminio
Seals / Guarnizioni	NBR rubber and PU (Polyurethane) / NBR e Poliuretano
Cushioning / Ammortizzatori	Mechanical buffers / Smorzatore meccanici d'urto
Environment temperature range / Temperatura ambiente	-20 °C ÷ +60 °C
Medium temperature range / Temperatura fluido	0 °C ÷ +30 °C
Lubrication / Lubrificazione	Not required / Non necessaria
Medium / Fluido	Filtered air / Aria filtrata
Max operating pressure / Pressione max d'esercizio	10 bar

SHQ □ □ □ / □ □ □ □ □ □ □

Blank...Non magnetic
M Magnetic

Bore Alesaggio (mm):

Ø12 **12**
 Ø16 **16**
 Ø20 **20**
 Ø25 **25**
 Ø32 **32**
 Ø40 **40**
 Ø50 **50**
 Ø63 **63**
 Ø80 **80**
 Ø100 **100**

SEA .. Simple acting front spring

Semplice effetto molla anteriore

SEP .. Simple acting rear spring

Semplice effetto molla posteriore

PST .. Though rod cylinder

Cilindro stelo passante

AR .. Non rotating

Cilindro antirotazione

Magnetic switch
Sensori finecorsa

VQ.. - ..

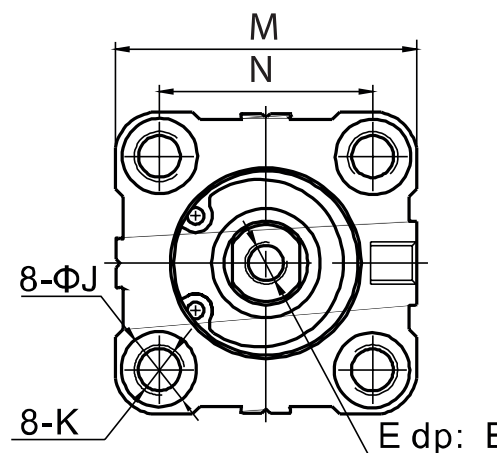
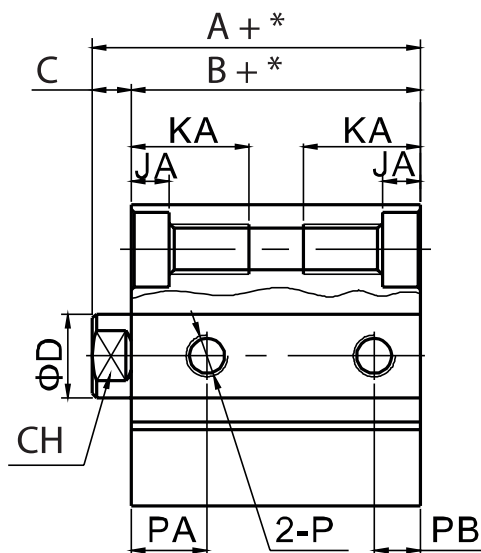
Square slot / Cava quadra



DIMENSIONS Ø 12-25 / DIMENSIONI Ø 12-25



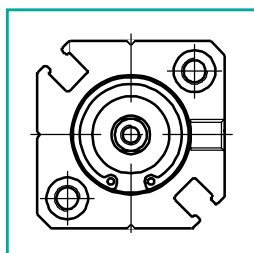
* = Stroke / Corsa



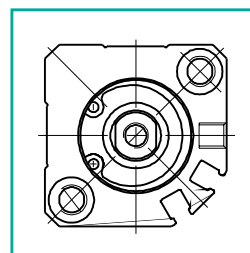
Bore Alesaggio	Non-magnetic						Magnetic		C	M	D	E	EA	CH
	A			B			A	B						
	St≤50	St≤55	St≤60	St≤50	St≤55	St≤60								
12	20.5	-	-	17	-	-	31.5	28	3.5	25	6	M3x0.5	6	5
16	22	22	22	18.5	18.5	18.5	34	30.5	3.5	29	8	M4x0.7	8	6
20	24	-	34	19.5	-	29.5	36	31.5	4.5	36	10	M5x0.8	7	8
25	27.5	-	37.5	22.5	-	32.5	37.5	32.5	5	40	12	M6x1.0	12	10

Bore Alesaggio	J	JA	K	KA	N	P	Non-magnetic		Magnetic		T
							PA	PB	PA	PB	
12	6	3.5	M4x0.7 Thru.hole:Φ3.4	11	15.5	M5x0.8	7.5	5	9	7	22
16	6	3.5	M4x0.7 Thru.hole:Φ3.4	11	20	M5x0.8	8	5.5	9.5	5.5	28
20	9	5.5	M16x10 Thru.hole:Φ5.2	17	25.5	M5x0.8	9	5.5	9.5	5.5	36
25	9	5.5	M16x10 Thru.hole:Φ5.2	17	28	M5x0.8	11	5.5	11	5.5	40

Magnetic Vers.
Ø 12-16
Vers. magnetico
Ø 12-16

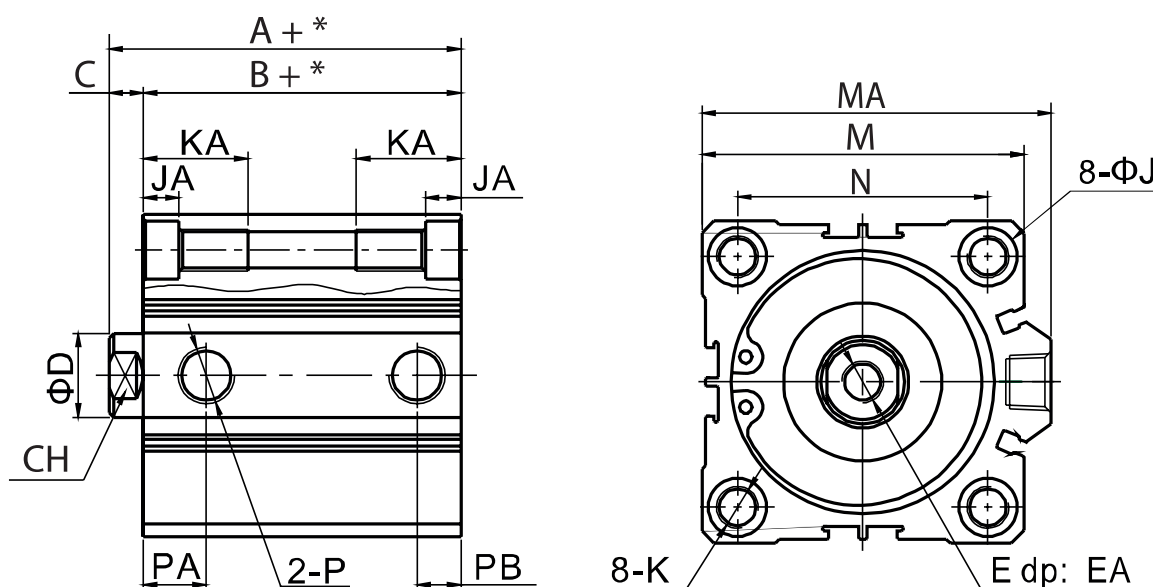


Magnetic Vers.
Ø 20-25
Vers. magnetico
Ø 20-25



DIMENSIONS Ø 32-100 / DIMENSIONI Ø 32-100


* = Stroke / Corsa



Bore Alesaggio	A (Non-magnetic)		A (Magnetic)	C	B (Non-magnetic)		B (Mag.)	M	MA	D	E
	St≤50	St≤60			St≤50	St≤60					
32	30	40	40	7	23	33	33	45	49.5	16	M8x1.25
40	36.5	46.5	46.5	7	29.5	39.5	39.5	53	57	16	M8x1.25
50	38.5	48.5	48.5	8	30.5	40.5	40.5	64	71	20	M10x1.5
63	44	54	54	8	36	46	46	77	84	20	M10x1.5
80	53.5	63.5	63.5	10	43.5	53.5	53.5	98	104	25	M16x2.0
100	65	75	75	12	53	63	63	117	123.5	32	M20x2.5

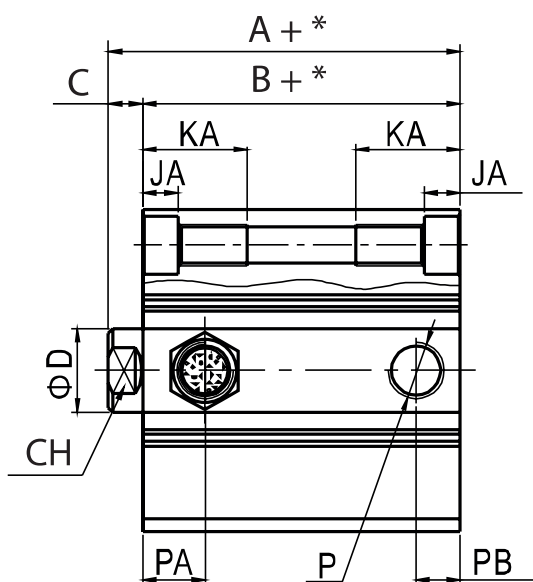
Bore Alesaggio		EA	CH	J	JA	K	KA	N	P	Non-magnetic		Magnetic	
										PA	PB	PA	PB
32	St=5	13	14	9	5.5	M6x1.0 Thru.hole:Φ5.2	17	34	1/8"	7.5	6.5	10.5	7.5
	St>5									10.5	7.5		
40	St=5	13	14	9	5.5	M6x1.0 Thru.hole:Φ5.2	17	40	1/8"	11	8	11	8
	St>5									10.5	10.5		
50	St=5	15	17	10.5	6.5	M8x1.25 Thru.hole:Φ6.8	22	50	1/4"	9	9	10.5	10.5
	St>5									10.5	10.5		
63	St=5	15	17	14	9	M10x1.5 Thru.hole:Φ8.5	28.5	60	1/4"	14	9.5	15	10.5
	St>5									(15)	(10.5)		
80		20	22	17	11	M12x1.75 Thru.hole:Φ10.3	35.5	77	3/8"	16	14	16	14
100		26	27	17	11	M12x1.75 Thru.hole:Φ10.3	35.5	94	3/8"	20	17.5	20	17.5

For strokes over 100mm dimension C + 5mm. / Per corse oltre i 100mm dimensione C + 5mm.

SHQ .. -...-SEA

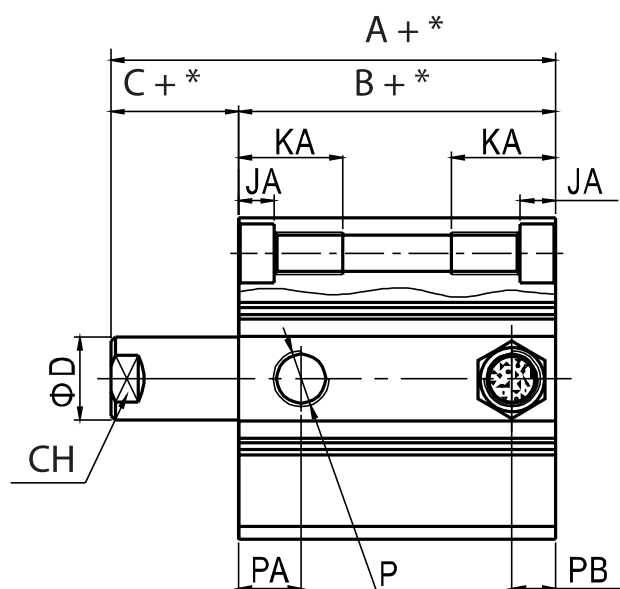


* = Stroke / Corsa



SHQ .. -...-SEP

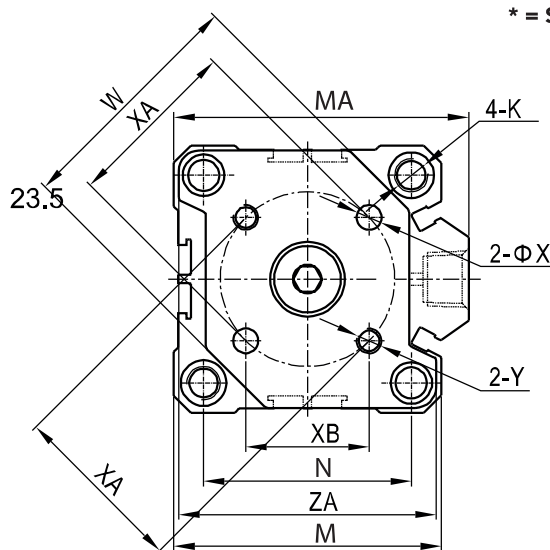
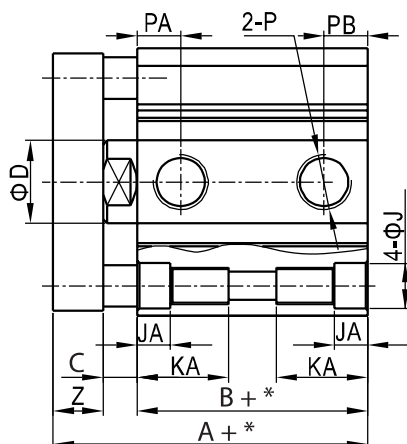
* = Stroke / Corsa



Bore Alesaggio	A (Non-magnetic)			A (Magnetic)			C	B (Non-magnetic)			B (Magnetic)		
	5/10	15/20	25/30	5/10	15/20	25/30		5/10	15/20	25/30	5/10	15/20	25/30
12	25.5	30.5	-	36.5	41.5	-	3.5	22	27	-	33	38	-
16	27	32	-	39	44	-	3.5	23.5	28.5	-	35.5	40.5	-
20	29	34	39	41	46	51	4.5	24.5	29.5	34.5	36.5	41.5	46.5
25	32.5	37.5	42.5	42.5	47.5	52.5	5	27.5	32.5	37.5	37.5	42.5	47.5
32	35	40	45	45	50	55	7	28	33	38	38	43	48
40	41.5	46.5	51.5	51.5	56.5	61.5	7	34.5	39.5	44.5	44.5	49.5	54.5
50	48.5	53.5	58.5	58.8	63.5	68.5	8	40.5	45.5	50.5	50.5	55.5	60.5
63	54	59	64	64	69	74	8	46	51	56	56	61	66

SHQ .. -...-AR

* = Stroke / Corsa 

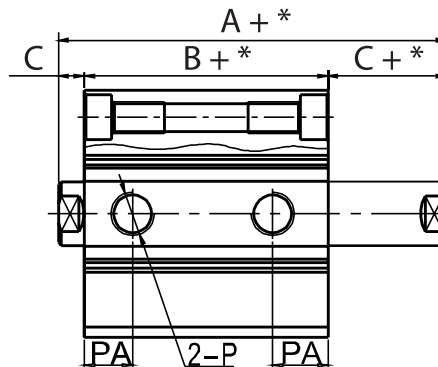


Bore Alesaggio	A		B		C	M	D	J	JA	K
	Non-magnetic	Magnetic	Non-magnetic	Magnetic						
12	26.5	37.5	17.3	28.3	3	26	6	6	3.5	M4x0.7 Thru.hole:Ø3.4
16	28	40	19	31	3	30	8	6	3.5	M4x0.7 Thru.hole:Ø3.4
20	32	44	20.5	32.5	3.5	36	10	9	5.5	M6x1.0 Thru.hole:Ø5.2
25	35.5	45.5	23	33	4.5	41	12	9	5.5	M6x1.0 Thru.hole:Ø5.2

Bore Alesaggio	KA	N	P	PA		PB		W	X	XA	XB	Y	Z	ZA
				Non-magnetic	Magnetic	Non-magnetic	Magnetic							
12	11	15.5	M5x0.8	7.5	9	5	7	15	3	10	7.1	M3x0.5	6	25
16	11	20	M5x0.8	8.5	10	5.5	5.5	21	3	14	9.9	M3x0.5	6	29
20	17	25.5	M5x0.8	10	10.5	5.5	5.5	26	4	17	12	M4x0.7	8	35
25	17	28	M5x0.8	11.5	11.5	5.5	5.5	30	5	22	15.6	M5x0.8	8	40

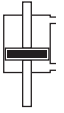
Bore Alesaggio	A (Non-magnetic)		A (Magnetic)	C	B (Non-magnetic)		B (Magnetic)	M	MA	D	J	JA	K
	St≤50	St≤75			St≤50	St≤75							
32	40	50	50	6.5	23.5	33.5	33.5	45	49.5	16	9	5.5	M6x1.0 Thru.hole:Ø5.2
40	46.6	56.5	56.5	6.6	30	40	40	53	57	16	9	5.5	M6x1.0 Thru.hole:Ø5.2
50	50.5	60.5	60.5	7.5	31	41	41	64	71	20	10.5	6.5	M8x1.25 Thru.hole:Ø6.8
63	56	66	66	8	36	46	46	77	84	20	14	9	M10x1.5 Thru.hole:Ø8.5
80	67.5	77.5	77.5	10	43.5	53.5	53.5	98	104	25	17	11	M12x1.75 Thru.hole:Ø10.4
100	81	91	91	12	53	63	63	117	123.5	32	17	11	M12x1.75 Thru.hole:Ø10.4

Bore Alesaggio	KA	N	P	PA		PB		W	X	XA	XB	Y	Z	ZA
				Non-magnetic	Magnetic	Non-magnetic	Magnetic							
32	St=5			8		6.5								
	St>5	17	34	1/8"	11	10.5	7.5	37	5	28	19.8	M5x0.8	10	43
40		17	40	1/8"	11	11	8	46	5	33	23.3	M5x0.8	10	51
50		22	50	1/4"	10.5	10.5	11	58	6	42	29.7	M6x1.0	12	62
63		28.5	60	1/4"	15	15	10.5	69	6	50	35.4	M6x1.0	12	75
80		35.5	77	3/8"	16	16	14	90	8	65	46	M8x1.25	14	95
100		35.5	94	3/8"	20	20	17.5	113.5	10	80	56.6	M10x1.5	16	114.5



SHQ .. -...-PST

* = Stroke / Corsa

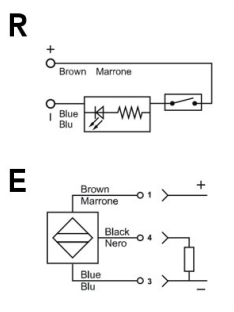
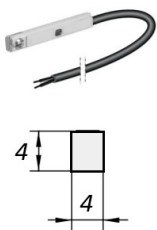


Bore Alesaggio	A		B		C
	Non-magnetic	Magnetic	Non-magnetic	Magnetic	
12	32.2	39.4	25.2	32.4	3.5
16	33	43	26	36	3.5
20	35	47	26	38	4.5
25	39	49	29	39	5
32	44.5	54.5	30.5	40.5	7
40	54	64	40	50	7
50	56.5	66.5	40.5	50.5	8
63	58	68	42	52	8
80	71	81	51	61	10
100	84.5	94.5	60.5	70.5	12

**MAGNETIC SWITCHES FOR
COMPACT PNEUMATIC CYLINDERS**
SENSORI PER CILINDRI COMPATTI PNEUMATICI



VQ...-



VQ □□-□□

Type / Tipo

R Reed / meccanico
E Solid state /
Elettronico

Cables / Cavi

2 2 wires / cavi
3 3 wires / cavi

Connection / Conn.

020 2000 mm

M8 Conn. M8

M12 Conn. M12*

* M12 and other lengths
available on request

* M12 e altre lunghezze
disponibili su richiesta

