

SERIE

K

2024\_LINE\_1



**Cilindri compatti ISO 21287**

*ISO 21287 Compact cylinders*

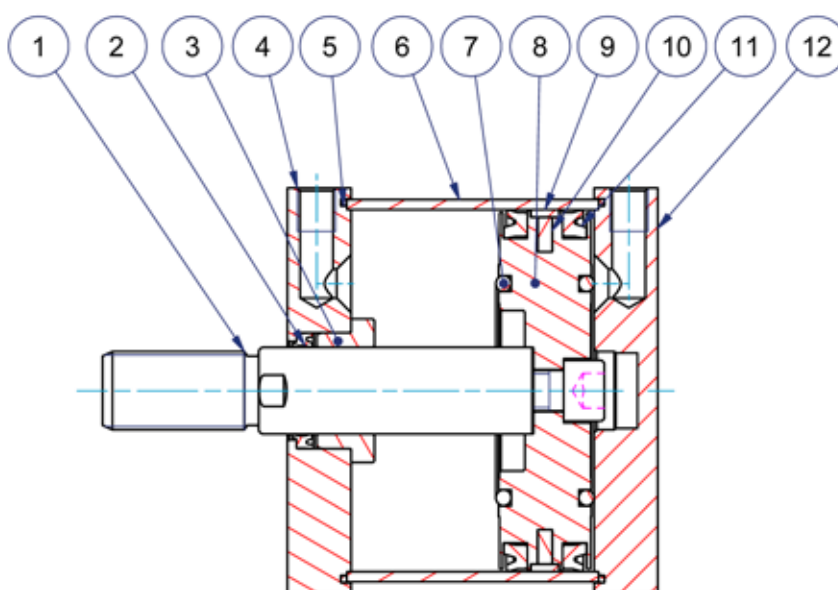


### CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS

<b>Pressione di esercizio</b> <i>Working pressure</i>	1 ÷ 10 bar (doppio effetto - <i>double acting</i> ) 2 ÷ 10 bar (semplice effetto - <i>single acting</i> )
<b>Temperatura di esercizio</b> <i>Working temperature</i>	0 ÷ +80°C (-20°C con aria secca - <i>with dry air</i> ) 0 ÷ +150°C (con guarnizioni per alte temperature - <i>with high temperature seals</i> )
<b>Versioni - Versions</b>	semplice effetto (molla anteriore) - doppio effetto - antirotazione - stelo passante <i>single acting (front spring) - double acting - anti-rotation - double rod</i>
<b>Alesaggi - Bores</b>	∅ 125 - 160 - 200 - 250
<b>Corse - Strokes</b>	vedere tabelle corse standard - <i>see standard stroke tables</i>
<b>Fluido - Fluid</b>	aria compressa filtrata, non lubrificata - <i>compressed filtered, non lubricated air</i>

### CARATTERISTICHE COSTRUTTIVE - CONSTRUCTIVE CHARACTERISTICS

①	<b>Stelo - Rod</b>	acciaio inox AISI 303 - <i>stainless steel AISI 303</i>
② ⑪	<b>Guarnizioni - Seals</b>	poliuretano - <i>polyurethane</i>
③	<b>Boccola - Bush</b>	ottone - <i>brass</i>
④ ⑫	<b>Testate - Covers</b>	alluminio anodizzato - <i>anodized aluminium</i>
⑤	<b>O-ring</b>	NBR
⑥	<b>Tubo - Tube</b>	alluminio anodizzato - <i>anodized aluminium</i>
⑦	<b>Paracolpo - Bumper</b>	NBR
⑧	<b>Pistone - Piston</b>	alluminio - <i>aluminium</i>
⑨	<b>Fascia di guida - Guide ring</b>	PBT+PTFE
⑩	<b>Magnete - Magnet</b>	plastoferrite - <i>rubber magnet</i>
	<b>Tiranti - Tie rods</b>	acciaio - <i>steel</i>
	<b>Viti - Screws</b>	acciaio - <i>steel</i>
	<b>Molla - Spring</b>	acciaio - <i>steel</i>



## CHIAVE DI CODIFICA

### KEY CODE

<b>K</b>	<b>D</b>	<b>M</b>	<b>200</b>	<b>100</b>	<b>GS</b>	<b>F</b>
			<b>ALESAGGIO - BORE (Ø)</b> 125 - 160 - 200 - 250	<b>CORSA - STROKE (mm)</b> vedere tabelle corse std see std stroke tables	<b>OPZIONE - OPTION</b> EX ATEX C E II 2GD c T4	
			<b>VERSIONE - VERSION</b>		<b>STELO - ROD</b>	
			<b>P</b> stelo passante double rod  <b>A</b> con staffa antirotazione with anti-rotation bracket		<b>F</b> femmina female  <b>M</b> maschio male	
			<b>VERSIONE - VERSION</b>		<b>GUARNIZIONI - SEALS</b>	
			<b>M</b> magnetico magnetic  non magnetico non-magnetic		<b>GS</b> guarnizioni standard standard seals  <b>VR</b> guarnizione stelo per alte temperature high temperature rod seal  <b>VA</b> tutte le guarnizioni per alte temperature all seals for high temperature	
			<b>VERSIONE - VERSION</b>			
			<b>S</b> semplice effetto molla anteriore single acting front spring  <b>D</b> doppio effetto double acting			
<b>SERIE - SERIES</b>						
<b>K</b> tubo tondo con tiranti round tube with tie rods						

Cilindri tandem vedi pagina 200  
Tandem cylinders see page 200

### ESECUZIONI A RICHIESTA - ON REQUEST

Stelo forato - *Hollow rod*

Stelo prolungato (W) - *Extended rod (W)*

Filetti speciali (dado stelo non fornito) - *Special thread (without rod nut)*

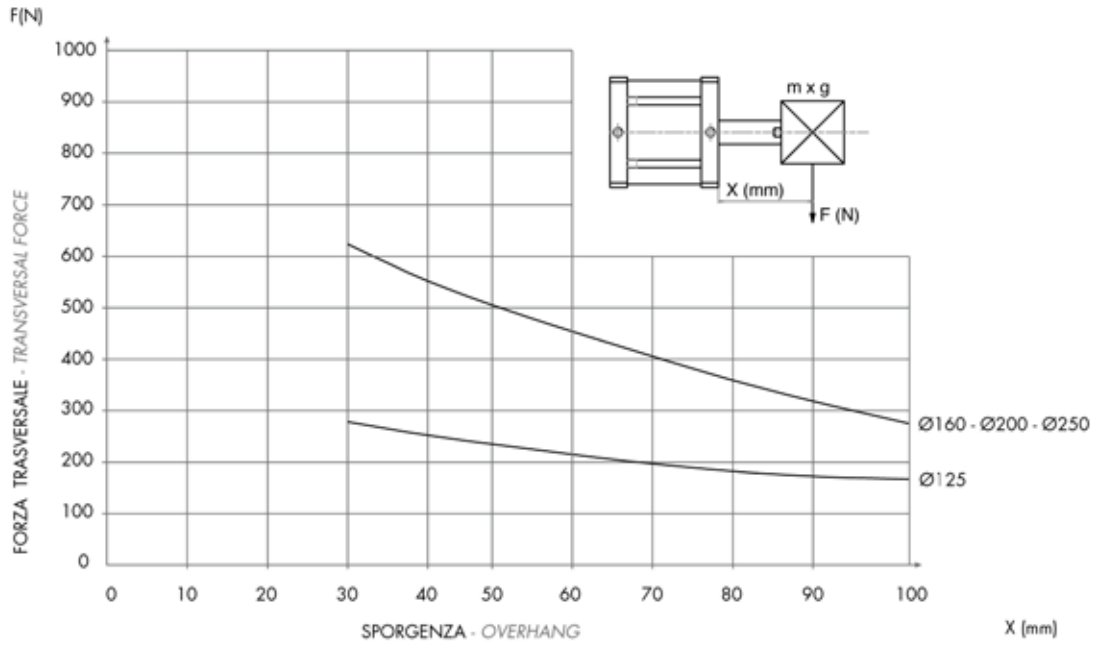
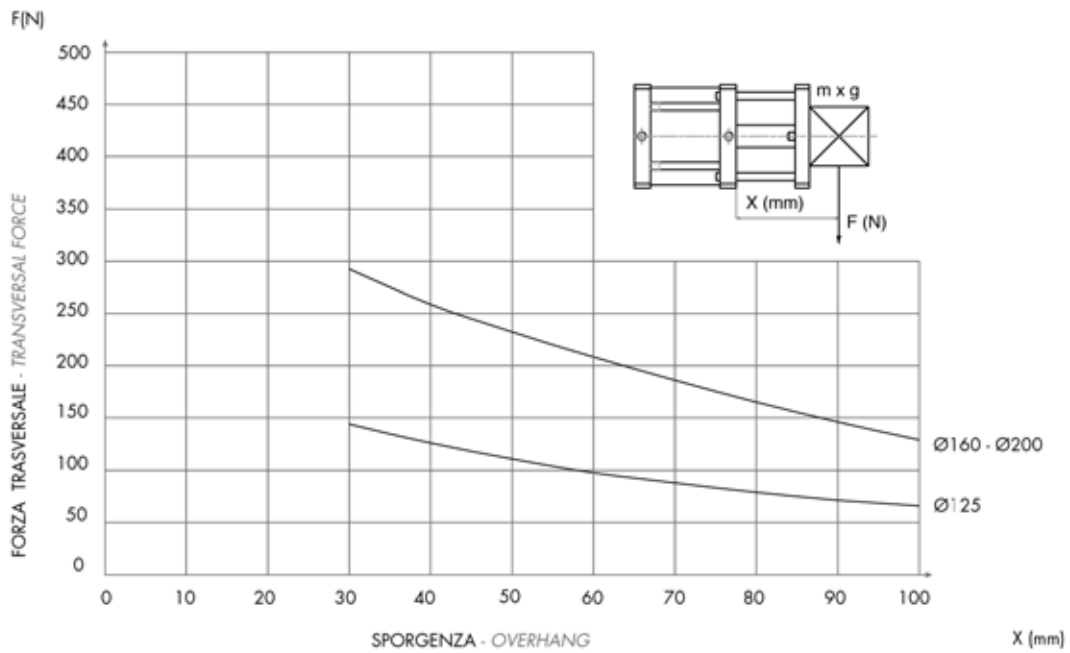
ATEX C E II 2GD c T4

### FORZE TEORICHE DI TRAZIONE (P=6bar)

#### THEORETICAL FORCES OF TRACTION (P=6bar)

		Ø	125	160	200	250
<b>KD - KDM</b>	SPINTA THRUST	[N]	7.363	12.064	18.850	29.452
	TRAZIONE TRACTION	[N]	6.940	11.310	18.095	28.700
<b>KDP - KDMP</b>	SPINTA THRUST	[N]	6.940	11.310	18.095	28.700
	TRAZIONE TRACTION	[N]	6.940	11.310	18.095	28.700

SERIE  
**K**

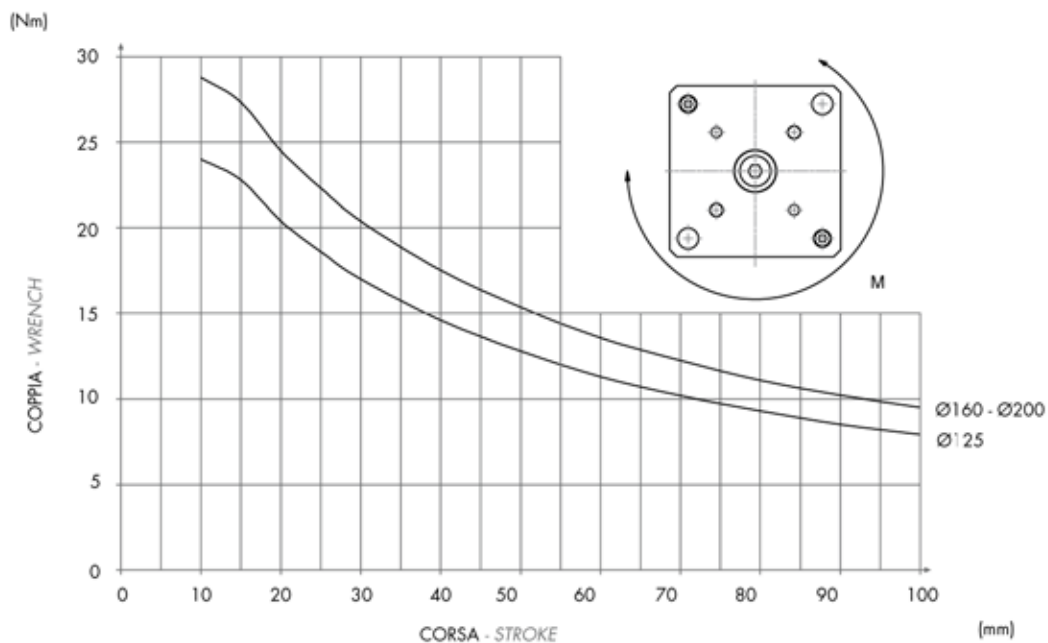
**DIAGRAMMA TEORICO CARICO AMMISSIBILE**
**KS**
**KSM**
**KD**
**KDM**
**THEORETICAL ALLOWABLE LOAD**

**SERIE K**
**DIAGRAMMA TEORICO CARICO AMMISSIBILE**
**KDA**
**KDMA**
**THEORETICAL ALLOWABLE LOAD**


## DIAGRAMMA TEORICO COPPIA AMMISSIBILE

KDA

KDMA

THEORETICAL ALLOWABLE TORQUE



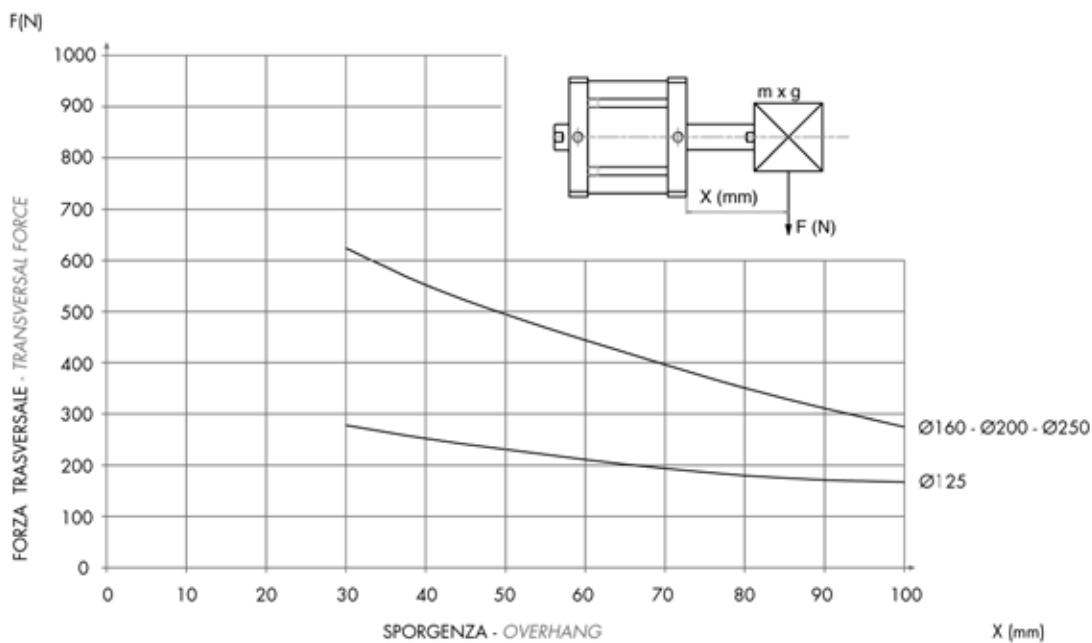
SERIE  
**K**

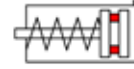
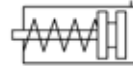
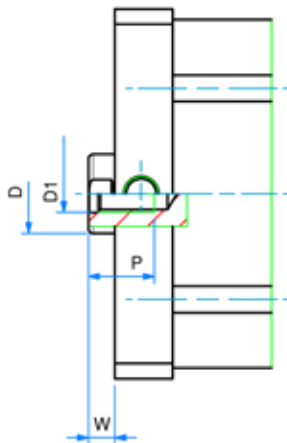
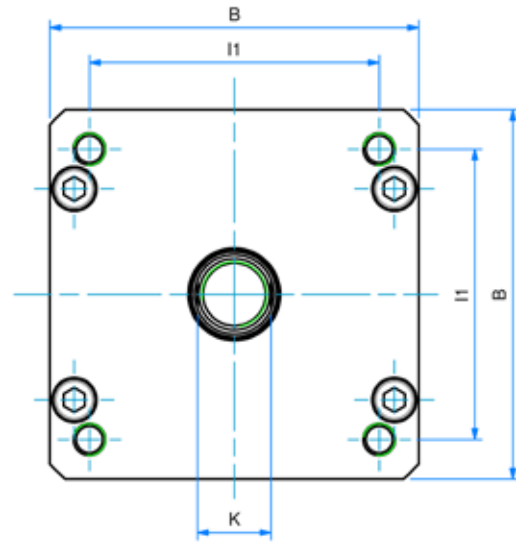
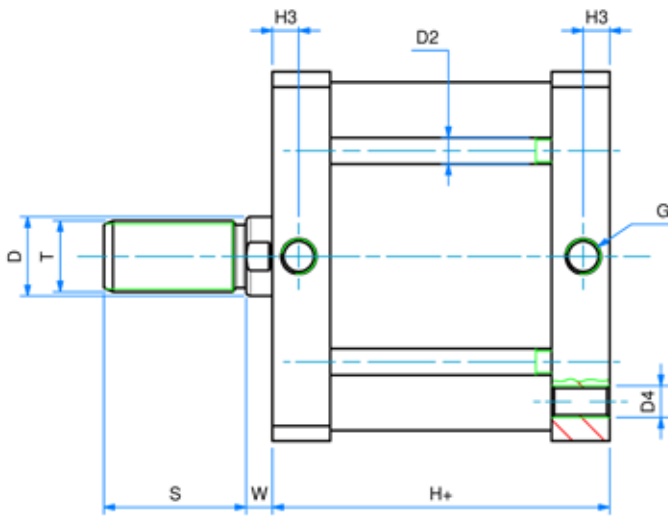
## DIAGRAMMA TEORICO CARICO AMMISSIBILE

KDP

KDMP

THEORETICAL ALLOWABLE LOAD



**SEMPLICE EFFETTO (MAGNETICO) - MOLLA ANTERIORE**
**KS**
**KSM**
**SINGLE ACTING (MAGNETIC) - FRONT SPRING**

**SERIE K**

**DIMENSIONI - DIMENSIONS**

	<b>125</b>	<b>160</b>	<b>200</b>
<b>B</b>	140	180	220
<b>o D</b>	30	40	40
<b>D1</b>	M14	M20	M20
<b>o D2</b>	10	12	14
<b>D4</b>	M12	M16	M16
<b>G</b>	G1/4	G3/8	G3/8
<b>H+</b>	78	87	87
<b>H+ viton</b>	83	91	105
<b>H3</b>	10	12	12
<b>I1</b>	110	140	175
<b>K</b>	28	36	36
<b>P</b>	25	30	30
<b>S</b>	54	72	72
<b>T</b>	M27x2	M36x2	M36x2
<b>W</b>	10	12	12

**o CORSE STANDARD - STANDARD STROKES**

<b>125</b>	10 - 25 - 50
<b>160</b>	10 - 25 - 50
<b>200</b>	10 - 25 - 50

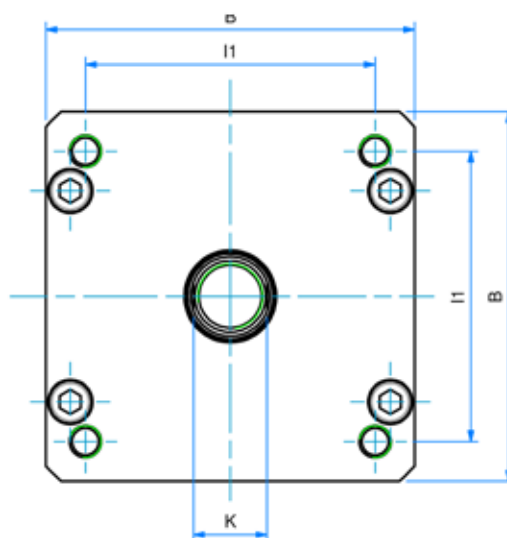
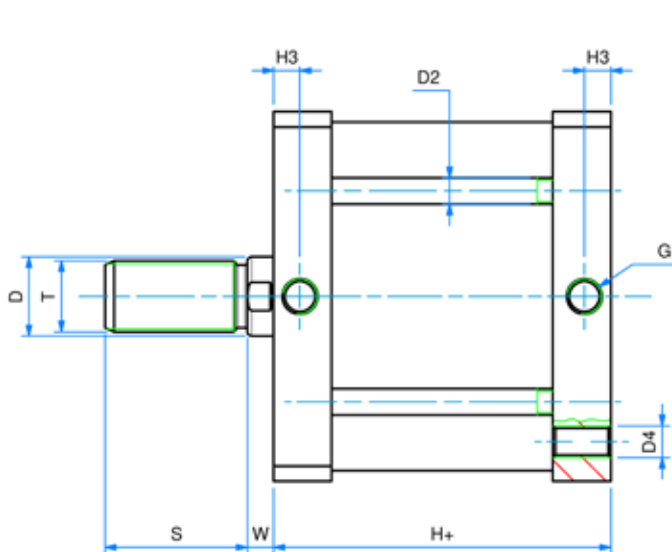
+ = aggiungere lunghezza corsa (mm) - add stroke length (mm)

**DOPPIO EFFETTO (MAGNETICO)**

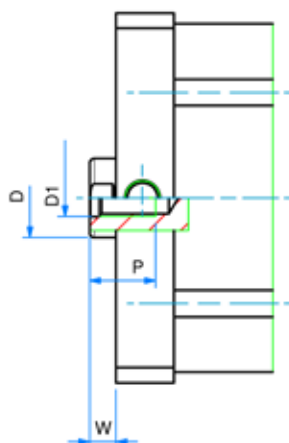
**KD**

**KDM**

DOUBLE ACTING (MAGNETIC)



SERIE  
**K**



ø	CORSE STANDARD - STANDARD STROKES
125	10 - 25 - 50 - 75 - 100 - 125 - 160 - 200 - 250 - 300
160	10 - 25 - 50 - 75 - 100 - 125 - 160 - 200 - 250 - 300
200	10 - 25 - 50 - 75 - 100 - 125 - 160 - 200 - 250 - 300
250	10 - 25 - 50 - 75 - 100 - 125 - 160 - 200 - 250 - 300

DIMENSIONI - DIMENSIONS				
ø	<b>125</b>	<b>160</b>	<b>200</b>	<b>250</b>
B	140	180	220	270
ø D	30	40	40	40
D1	M14	M20	M20	M24
ø D2	10	12	14	16
D4	M12	M16	M16	M20
G	G1/4	G3/8	G3/8	G1/2
H+	78	87	87	116
H + viton	83	91	105	116
H3	10	12	12	15
I1	110	140	175	220
K	28	36	36	36
P	25	30	30	35
S	54	72	72	72
T	M27x2	M36x2	M36x2	M36x2
W	10	12	12	12

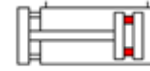
+ = aggiungere lunghezza corsa (mm) - add stroke length (mm)

# DOPPIO EFFETTO (MAGNETICO) ANTIROTAZIONE

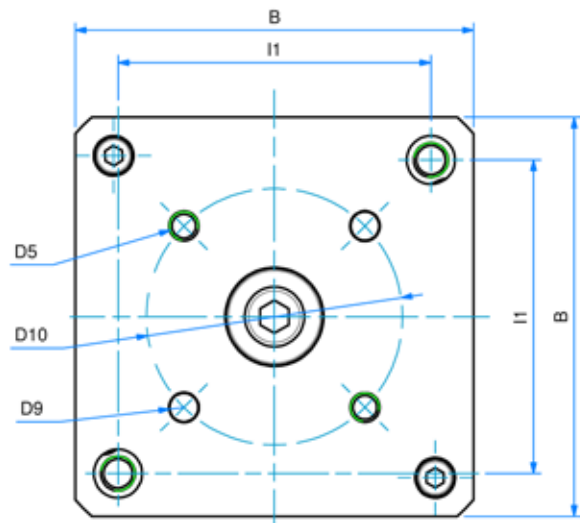
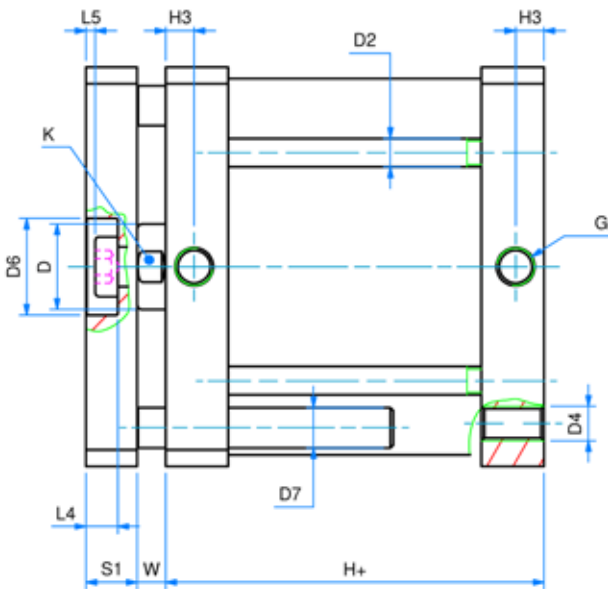
KDA

KDMA

DOUBLE ACTING (MAGNETIC) ANTI-ROTATION



SERIE  
**K**



## DIMENSIONI - DIMENSIONS

	125	160	200
<b>B</b>	140	180	220
<b>ø D</b>	30	40	40
<b>D1</b>	M14	M20	M20
<b>ø D2</b>	10	12	14
<b>D4</b>	M12	M16	M16
<b>D5</b>	M10	M12	M12
<b>ø D6</b>	34	46	46
<b>ø D7</b>	14	20	20
<b>ø D9</b>	10	12	12
<b>ø D10</b>	90	110	110
<b>G</b>	G1/4	G3/8	G3/8
<b>H+</b>	78	87	87
<b>H + viton</b>	83	91	105
<b>H3</b>	10	12	12
<b>I1</b>	110	140	175
<b>K</b>	28	36	36
<b>L4</b>	12	16	16
<b>L5</b>	3	3	3
<b>S1</b>	18	23	23
<b>W</b>	10	12	12

### Ø CORSE STANDARD - STANDARD STROKES

125	10 - 25 - 50 - 75 - 100 - 125 - 160 - 200 - 250 - 300
160	10 - 25 - 50 - 75 - 100 - 125 - 160 - 200 - 250 - 300
200	10 - 25 - 50 - 75 - 100 - 125 - 160 - 200 - 250 - 300

+ = aggiungere lunghezza corsa (mm) - add stroke length (mm)

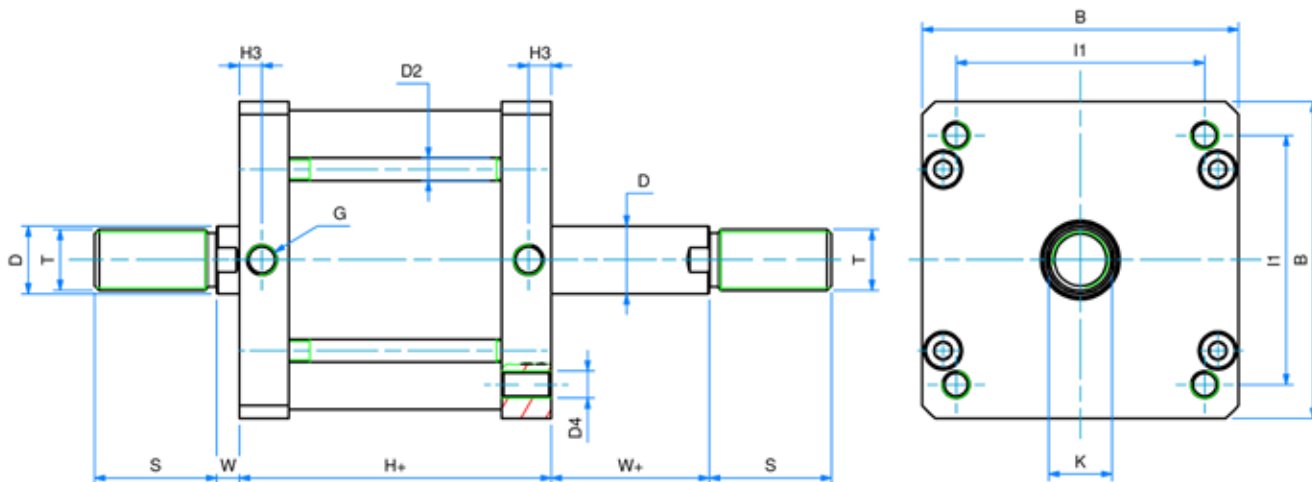
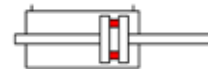


# DOPPIO EFFETTO (MAGNETICO) STELO PASSANTE

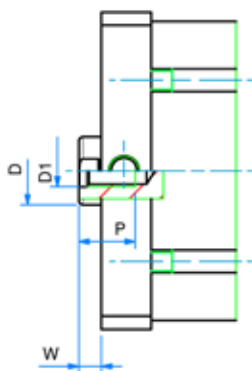
KDP

KDMP

DOUBLE ACTING (MAGNETIC) WITH DOUBLE ROD



SERIE  
**K**



Ø	CORSE STANDARD - STANDARD STROKES
125	10 - 25 - 50 - 75 - 100 - 125 - 160 - 200 - 250 - 300
160	10 - 25 - 50 - 75 - 100 - 125 - 160 - 200 - 250 - 300
200	10 - 25 - 50 - 75 - 100 - 125 - 160 - 200 - 250 - 300
250	10 - 25 - 50 - 75 - 100 - 125 - 160 - 200 - 250 - 300

### DIMENSIONI - DIMENSIONS

	125	160	200	250
B	140	180	220	270
Ø D	30	40	40	40
D1	M14	M20	M20	M24
Ø D2	10	12	14	16
D4	M12	M16	M16	M20
G	G1/4	G3/8	G3/8	G1/2
H+	78	87	87	116
H + viton	83	91	105	116
H3	10	12	12	15
I1	110	140	175	220
K	28	36	36	36
P	25	30	30	35
S	54	72	72	72
T	M27x2	M36x2	M36x2	M36x2
W	10	12	12	12
W+	10	12	12	12

+ = aggiungere lunghezza corsa (mm) - add stroke length (mm)

## CILINDRI TANDEM - TANDEM CYLINDERS

### CHIAVE DI CODIFICA - KEY CODE

**K T2 M 1 6 0 . 0 5 0 . G S . M**

#### VERSIONE - VERSION

<b>T2</b>	tandem doppia spinta double thrust tandem
<b>T3</b>	tandem tripla spinta 3 x force
<b>T4</b>	tandem quadrupla spinta 4 x force

**K C M 1 2 5 . 0 5 0 . 1 0 0 . G S . F**

#### ALESAGGIO - BORE (Ø)

125 - 160 - 200 - 250

#### I° CORSA (mm) I° STROKE (mm)

vedere tabelle corse std  
see std stroke tables

#### II° CORSA (mm) II° STROKE (mm)

vedere tabelle corse std  
see std stroke tables

#### STELO - ROD

**F** femmina  
female

**M** maschio  
male

#### VERSIONE - VERSION

**M** magnetico  
magnetic

non magnetico  
non-magnetic

#### VERSIONE - VERSION

**P** tandem più posizioni doppio effetto  
multi-position double acting tandem

**C** tandem contrapposti posteriori doppio effetto  
rear opposed double acting tandem

**F** tandem contrapposti anteriori doppio effetto  
front opposed double acting tandem

#### GUARNIZIONI - SEALS

**GS** guarnizioni standard  
standard seals

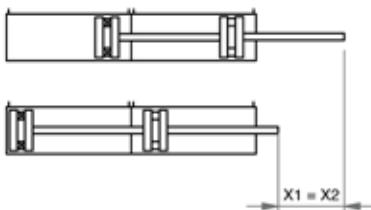
**VR** guarnizione stelo per alte temperature  
high temperature rod seal

**VA** tutte le guarnizioni per alte temperature  
all seals for high temperature

#### SERIE - SERIES

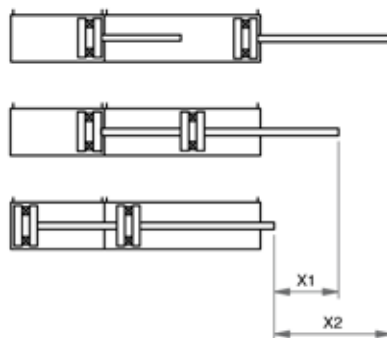
**K** tubo tondo con firanti  
round tube with tie rods

#### DOPIA SPINTA - DOUBLE THRUST

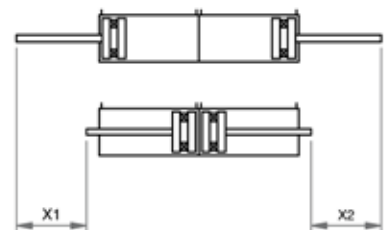


X1 = 1° corsa - 1° stroke  
X2 = 2° corsa - 2° stroke

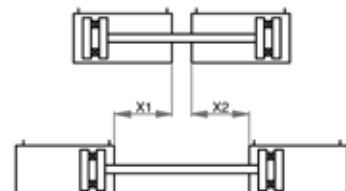
#### PIÙ POSIZIONI - MULTI-POSITIONS

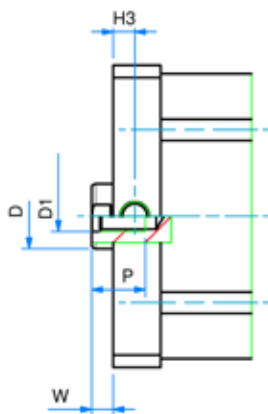
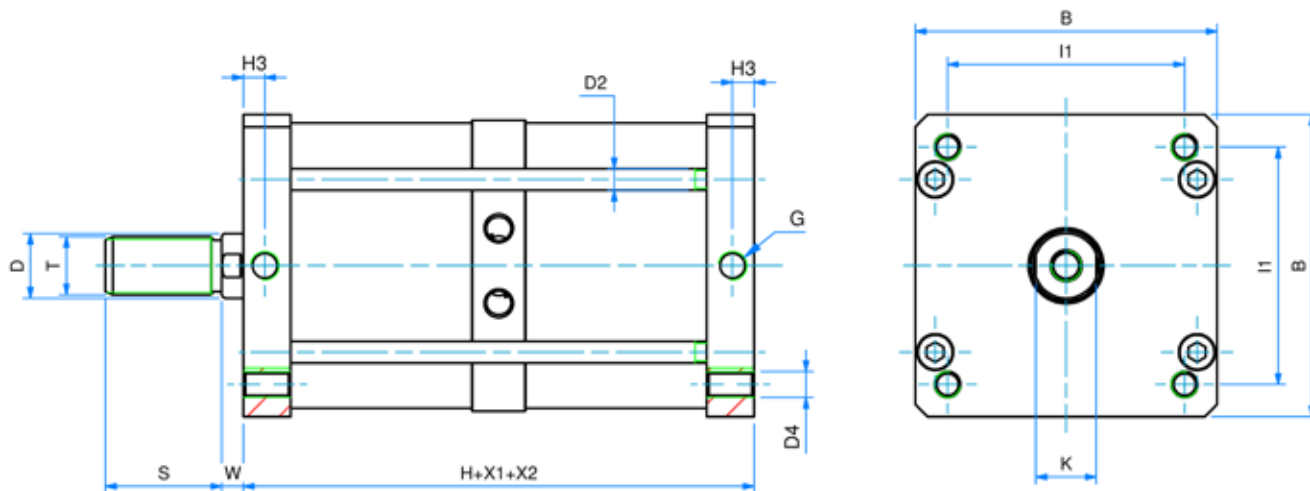
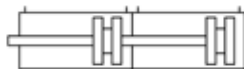


#### CONTRAPPOSTI POSTERIORI - REAR OPPOSED



#### CONTRAPPOSTI ANTERIORI - FRONT OPPOSED



**TANDEM DOPPIA SPINTA D.E.(M)**
**KT**
**KTM**
**DOUBLE THRUST TANDEM D.A.(M)**

**SERIE K**
**DIMENSIONI - DIMENSIONS**

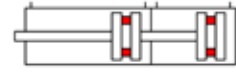
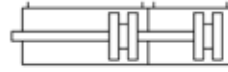
	<b>125</b>	<b>160</b>	<b>200</b>	<b>250</b>
<b>B</b>	140	180	220	270
<b>ø D</b>	30	40	40	40
<b>D1</b>	M14	M20	M20	M24
<b>ø D2</b>	10	12	14	M16
<b>D4</b>	M12	M16	M16	M20
<b>G</b>	G1/4	G3/8	G3/8	G1/2
<b>H</b>	137	150	150	202
<b>H viton</b>	147	158	186	202
<b>H3</b>	10	12	12	15
<b>I1</b>	110	140	175	220
<b>K</b>	28	36	36	36
<b>P</b>	25	30	30	35
<b>S</b>	54	72	72	72
<b>T</b>	M27x2	M36x2	M36x2	M36x2
<b>W</b>	10	12	12	12
<b>X1</b>	I° CORSA I° STROKE	I° CORSA I° STROKE	I° CORSA I° STROKE	I° CORSA I° STROKE
<b>X2</b>	II° CORSA II° STROKE	II° CORSA II° STROKE	II° CORSA II° STROKE	II° CORSA II° STROKE

# TANDEM PIÙ POSIZIONI D.E.(M)

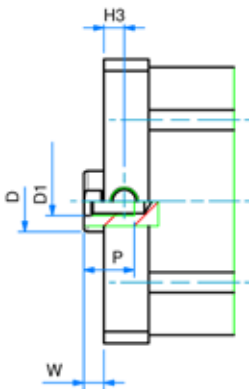
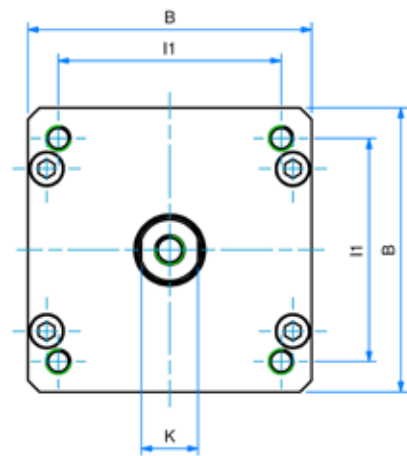
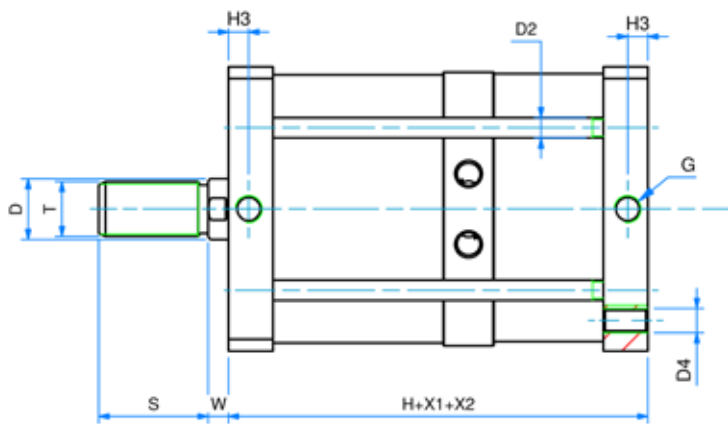
KP

KPM

MULTI-POSITION TANDEM D.A.(M)



SERIE  
**K**



## DIMENSIONI - DIMENSIONS

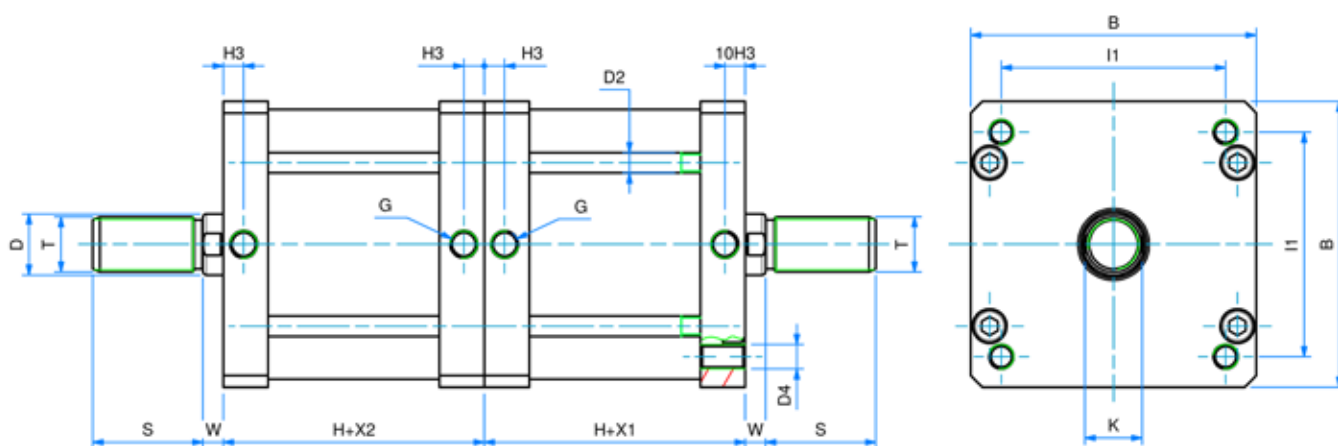
	125	160	200	250
<b>B</b>	140	180	220	270
<b>ø D</b>	30	40	40	40
<b>D1</b>	M14	M20	M20	M24
<b>ø D2</b>	10	12	14	M16
<b>D4</b>	M12	M16	M16	M20
<b>G</b>	G1/4	G3/8	G3/8	G1/2
<b>H</b>	137	150	150	202
<b>H vilton</b>	137	150	150	202
<b>H3</b>	147	158	186	202
<b>I1</b>	110	140	175	220
<b>K</b>	28	36	36	36
<b>P</b>	25	30	30	35
<b>S</b>	54	72	72	72
<b>T</b>	M27x2	M36x2	M36x2	M36x2
<b>W</b>	10	12	12	12
<b>X1</b>	I° CORSA I° STROKE	I° CORSA I° STROKE	I° CORSA I° STROKE	I° CORSA I° STROKE
<b>X2</b>	II° CORSA II° STROKE	II° CORSA II° STROKE	II° CORSA II° STROKE	II° CORSA II° STROKE

# TANDEM CONTRAPPOSTI POSTERIORI D.E.(M)

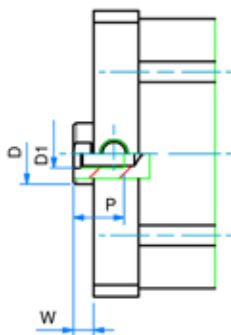
KC

KCM

REAR OPPOSED TANDEM D.A.(M)

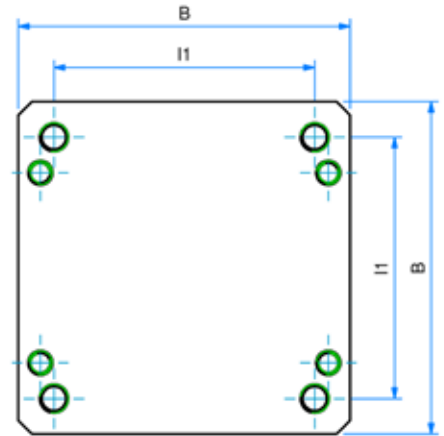
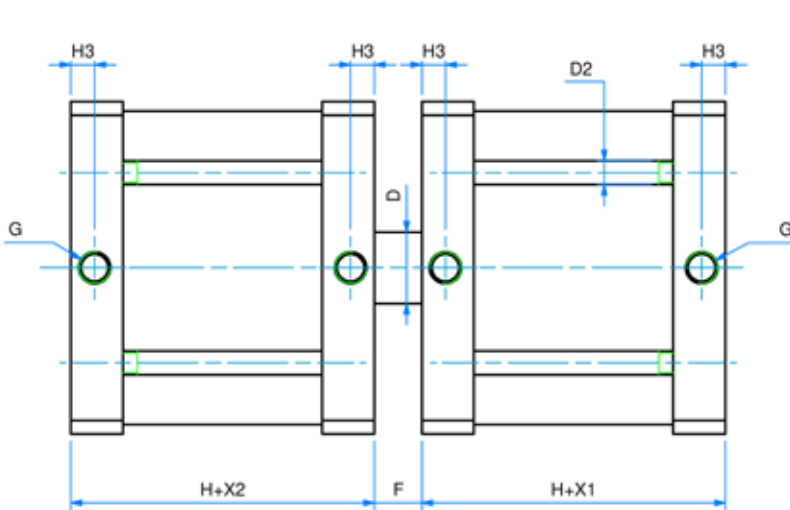
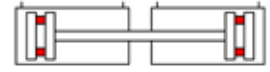
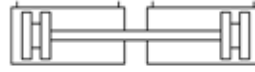


SERIE  
**K**

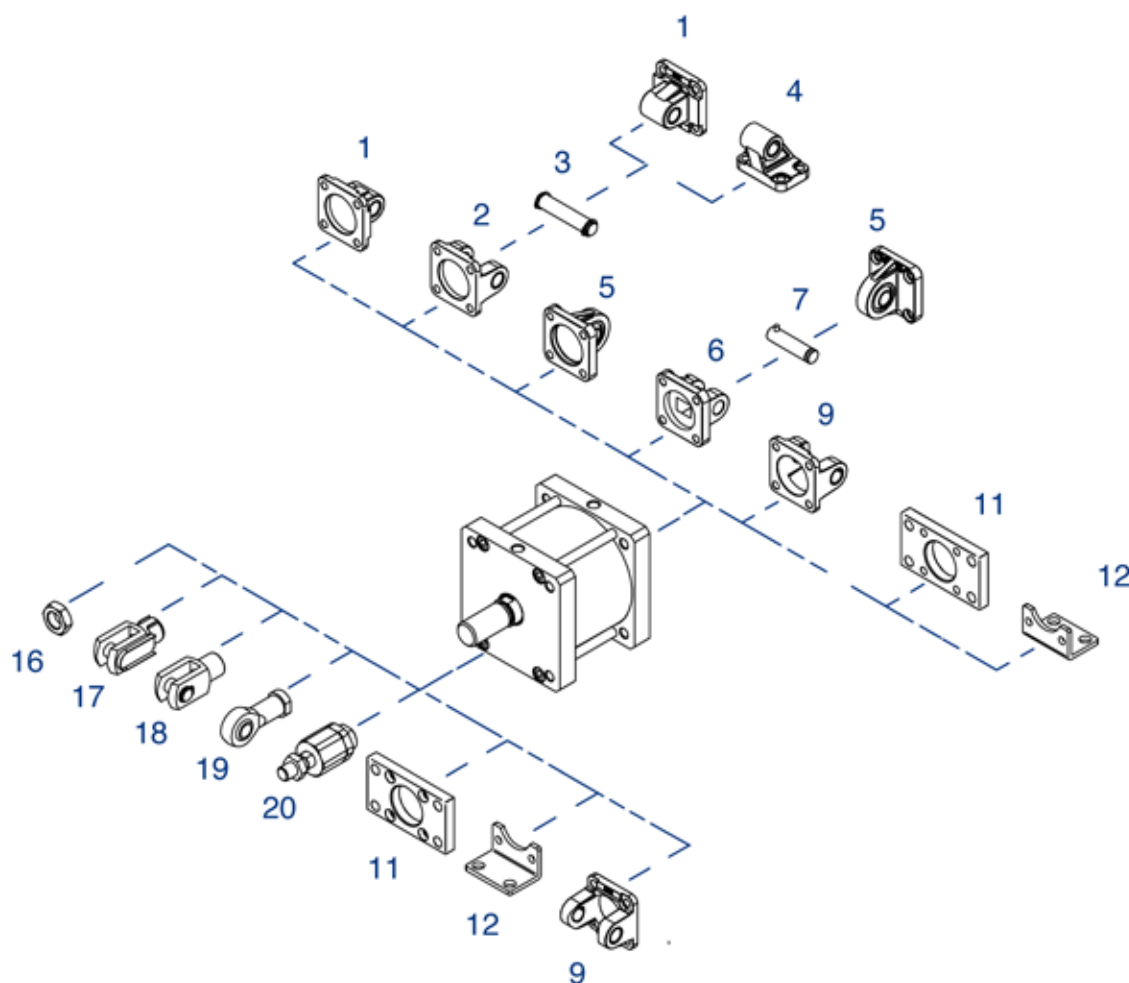


### DIMENSIONI - DIMENSIONS

	125	160	200	250
<b>ø</b>	125	160	200	250
<b>B</b>	140	180	220	270
<b>ø D</b>	30	40	40	40
<b>D1</b>	M14	M20	M20	M24
<b>ø D2</b>	10	20	14	M16
<b>D4</b>	M12	M16	M16	M20
<b>G</b>	G1/4	G3/8	G3/8	G1/2
<b>H</b>	78	87	87	116
<b>H vilton</b>	83	91	105	116
<b>H3</b>	10	12	12	15
<b>I1</b>	110	140	175	220
<b>K</b>	28	36	36	36
<b>P</b>	25	30	30	35
<b>S</b>	54	72	72	72
<b>T</b>	M27x2	M36x2	M36x2	M36x2
<b>W</b>	10	12	12	12
<b>X1</b>	I° CORSA I° STROKE	I° CORSA I° STROKE	I° CORSA I° STROKE	I° CORSA I° STROKE
<b>X2</b>	II° CORSA II° STROKE	II° CORSA II° STROKE	II° CORSA II° STROKE	II° CORSA II° STROKE

**TANDEM CONTRAPPOSTI ANTERIORI D.E.(M)**
**KF**
**KFM**
**FRONT OPPOSED TANDEM D.A.(M)**

**SERIE K**
**DIMENSIONI - DIMENSIONS**

	<b>125</b>	<b>160</b>	<b>200</b>	<b>250</b>
<b>B</b>	140	180	220	270
<b>ø D</b>	30	40	40	40
<b>ø D2</b>	10	12	14	M16
<b>D4</b>	M12	M16	M16	M20
<b>F</b>	20	24	24	24
<b>G</b>	G1/4	G3/8	G3/8	G1/2
<b>H</b>	137	150	150	202
<b>H viton</b>	83	91	105	202
<b>H3</b>	10	12	12	15
<b>I1</b>	110	140	175	220
<b>X1</b>	I° CORSA I° STROKE	I° CORSA I° STROKE	I° CORSA I° STROKE	I° CORSA I° STROKE
<b>X2</b>	II° CORSA II° STROKE	II° CORSA II° STROKE	II° CORSA II° STROKE	II° CORSA II° STROKE

**ACCESSORI DI FISSAGGIO ISO 15552 (UTILIZZABILI ANCHE PER CILINDRI SERIE K)**
**ISO 15552 MOUNTING PARTS (ALSO SUITABLE FOR SERIE K CYLINDERS)**

**SERIE  
K**

POS.	CODE	DESCRIZIONE-DESCRIPTION
1	CMI...	cerniera maschio iso - iso male hinge
2	CFI...	cerniera femmina iso - iso female hinge
3	PCF...	perno per cerniera - pin for hinge
4	ASI...	articolazione a squadra iso - iso square hinge
5	CMSI...	cerniera maschio snodata iso iso male hinge with ball joint
6	CFSI...	cerniera femmina stretta iso iso narrow female hinge
7	PCFS...	perno per cerniera stretta pin for narrow hinge
9	CFI...F	cerniera femmina forata iso hollow iso female hinge
11	FI...	flangia iso - iso flange
12	PBI...	pedino basso iso - iso foot mounting

POS.	CODE	DESCRIZIONE-DESCRIPTION
16	DA--x...	dado - nut
17	FC--x...	forcella con clips - clevis with lockable pin
18	FP--x...	forcella con perno - clevis with pin
19	SSFi--x...	snodo sferico - rod eye
20	SA--x...	snodo autoallineante - self-aligning joint

Fissaggi forniti con viti - Mounting parts supplied with screws

 Dimensioni accessori: vedi sezione SERIE W  
 Accessories dimensions: see SERIE W chapter







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