

# Serie HL



> HL <



 Serie di ventilatori a pale radiali costruita per ottenere alte pressioni con basse portate.

La serie **HL** è particolarmente adatta al trasporto pneumatico in genere. Infatti, queste ventole possono convogliare aria molto polverosa o essere attraversate da materiale granuloso, ma con le dovute modifiche possono essere utilizzate per convogliare materiale filamentoso. Questa serie trova impiego nelle falegnamerie, industrie della lavorazione della carta, nelle concerie, nelle industrie tessili e di lavorazione delle materie plastiche, ecc....

La temperatura del fluido di esercizio può arrivare a +80 °C nell'esecuzione standard e fino a +200 °C nell'esecuzione **SV**. Temperature più alte possono essere raggiunte con opportune modifiche al prodotto di serie.

La girante in lamiera di acciaio saldata è costruita con pale radiali piane. I ventilatori della serie **HL** sono costruiti di serie in esec.4, muniti cioè di base di sostegno motore. I motori utilizzati di serie sono in forma B3, 2 poli, chiusi autoventilati e unificati unel-mec ip55 clF.

 Radial blade series of fans manufactured to obtain high pressures with low flow rates.

**HL** series is particularly suitable for pneumatic conveyance mostly. These impellers can convey very dusty air or be crossed by granular material, but with the suitable changes can be used to convey filamentous material.

This series finds use in joineries, industry of paper manufacturing, in tanneries, in textile industry.

Working fluid temperature can go up to + 80°C for standard execution and up to + 200°C for **SV** execution. Higher temperatures can be reached with suitable changes in standard product.

The impeller, in welded steel sheet, is manufactured with flat radial blades. **HL** standard series fans are manufactured in arrangement 4, equipped with a motor support base. The installed motors are in B3 construction, 2 poles, enclosed selfventilated and standardized UNEL MEC ip55 clF.

 Série de ventilateurs à palettes radiales créée pour obtenir des pressions hautes avec des débits bas.

La série **HL** est particulièrement adaptée au transport pneumatique. Ces ventilateurs peuvent canaliser de l'air très poussiéreux ou être traversés par du matériel granuleux, en effectuant certaines modifications ils peuvent aussi canaliser du matériel filamenteux.

Cette série est très utilisée par les menuisiers, auprès des papeteries, des tanneries, des industries textiles et plastiques etc....

La température du fluide d'exercice peut arriver à +80°C en exécution standard et jusqu'à +200°C en exécution **SV**.

On peut rejoindre des températures plus élevées en modifiant le produit standard. La turbine en tôle d'acier soudée est réalisée avec des palettes radiales plates. Les ventilateurs de la série **HL** sont construits en arrangement 4, équipés de base pour le soutien du moteur.

Les moteurs de série utilisés sont en forme B3, 2 pôles, fermés auto aérés et standardisés unel-mec ip55 clF.

 Reihe von Lüftern mit Radialbeschaufelung dazu erbaut, um hohe Luftdrücke mit niedrige Mitteltragfähigkeit zu erlangen.

Die **HL** Reihe ist normalerweise für den pneumatischer Transport besonders geeignet. Diese Flügelräder können nämlich sehr staubige Luft leiten oder von körnigem Stoff durchquert werden, aber mit den gebotenen Umänderungen können auch dazu benutzt werden, um fadenartigen Stoff zu leiten. Diese Reihe kommt zur Anwendung bei Schreinereien, Papierfabriken, Gerbereien, Textilfabriken und Plastikstoffes Bearbeitungsfabriken usw..

Die höchste Betriebstemperatur des Übungsfluidums ist bei Standarddurchführungen +80°C und bei **SV** Durchführungen +200°C. Höhere Temperaturen können mit zweckmäßigen Abänderungen am Serienprodukt erreicht werden.

Das Flügelrad aus geschweißtem Stahlblech ist mit glatter Radialbeschaufelung gebaut. Die **HL** Serienlüfter werden serienmäßig nach Durchführung 4, das heißt mit Motorstützebasis ausgestattet, gebaut. Die benutzte Serienmotoren sind der B3 Klasse, 2 Polen, geschlossene, eigenbelüftete und unel-mec ip55 clF normiert.

 Serie de ventiladores de álabes radiales construidos para la obtención de presiones altas y caudales bajos.

La serie **HL** es especialmente apropiada para el transporte neumático en general. De hecho, estos ventiladores pueden manejar aire muy polvoriento o bien ser atravesados por material granuloso, aunque con la debidas modificaciones se pueden utilizar para el manejo de material filamentoso. Esta serie tiene aplicación en carpinterías, fábricas de papel, fábricas de curtidos, industrias textiles y de materias plásticas, etc....

La temperatura del fluido de trabajo puede alcanzar + 80°C en la ejecución standard y hasta +200°C en la ejecución **SV**.

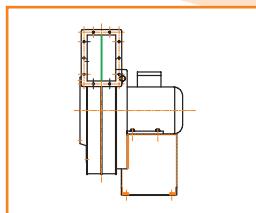
Con oportunas modificaciones al producto de serie, puede alcanzar temperaturas más altas.

La turbina en chapa de acero soldado está construida con álabes radiales planos.

Los ventiladores de la serie **HL** se construyen de serie en ejec. 4, o sea equipados con una base de soporte del motor. Los motores utilizados de serie son de construcción B3, de 2 polos, unificados unel-mec ip55 clF.

## > Esecuzioni e forme costruttive fornibili <

> Arrangements and constructive forms > Arrangements et formes de construction disponibles > Baudurchführungen und Bauformen sind vorrätig  
> Ejecuciones y formas constructivas, con posibilidad de ser suministradas



Esec. 4 – semplice aspirazione, accoppiamento diretto. Girante a sbalzo sul motore sostenuto dalla base.  
**Ventilatore fornito completo di motore forma B3**

Arrangement 4 – simple suction, direct drive. Overhanging impeller on motor supported by the base.  
**Fan supplied with B3 construction motor**

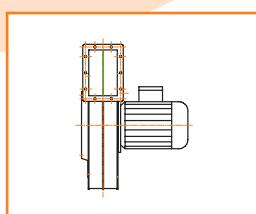
Arrangement 4 – aspiration simple, accouplement direct. Turbine clavetée en bout d'arbre du moteur soutenu par la base.

**Ventilateur livré avec moteur forme B3**

Durchführung 4 – schlichtes Ansaugen, direkte Koppelung. Fliegend angeordnetes Laufrad auf dem durch die Basis abgestützten Motor.

**Lüfter komplett mit B3 Motor ausgestattet**

Ejec. 4 – simple aspiración, acoplamiento directo. Turbina suspendida sobre motor soportado por la base.  
**Ventilador suministrado completo de motor en construcción B3**



Esec. 5 – semplice aspirazione, accoppiamento diretto. Girante a sbalzo sul motore flangiato sostenuto dalla chiocciola.

**Ventilatore fornito completo di motore forma B5 o B3/B5 (senza sedia)**

Arrangement 5 – simple suction, direct drive. Overhanging impeller on flanged motor supported by the housing.  
**Fan supplied with B5 or B3/B5 construction motor (without motor support base)**

Arrangement 5 – aspiration simple, accouplement direct. Turbine clavetée en bout d'arbre du moteur à brides soutenu par la base.

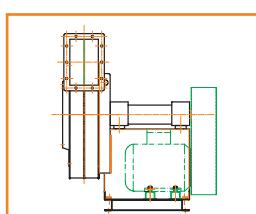
**Ventilateur livré avec moteur forme B5 ou B3/B5 (sans base de support)**

Durchführung 5 - schlichtes Ansaugen, direkte Koppelung. Fliegend angeordnetes Laufrad auf dem durch die Spindelmutter abgestützten Flanschmotor.

**Lüfter komplett mit B5 oder B3/B5 Motor ausgestattet (ohne Stuhl)**

Ejec. 5 – aspiración simple, acoplamiento directo. Turbina acoplada directamente al eje del motor soportado a la voluta.

**Ventilador suministrado completo de motor en construcción B5 o B3/B5 (sin base de soporte)**



Esec. 12 – semplice aspirazione, accoppiamento a cinghie. Girante a sbalzo su albero di trasmissione sostenuto dalla base. Ventilatore e motore sostenuti da telaio di fondazione.

**Ventilatore fornito completo di organi di trasmissione, carter di protezione, basamento di fondazione e motore forma B3**

Arrangement 12 – simple suction, belt drive. Overhanging impeller on belt shaft supported by the base.  
Fan and motor supported by the foundation base.

**Fan supplied with belts parts, protection guard, foundation basement and B3 construction motor**

Arrangement 12 – aspiration simple, entraînement à courroies. Turbine clavetée en bout d'arbre de transmission soutenu par la base. Ventilateur et moteur soutenus par le châssis de fondation.

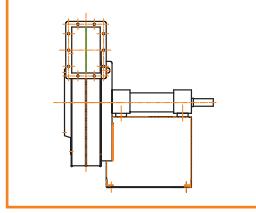
**Ventilateur livré avec organes de transmission, carter de protection, base de fondation et du moteur forme B3**

Durchführung 12 - schlichtes Ansaugen, Riemenkoppelung. Fliegend angeordnetes Laufrad auf der durch die Basis abgestützten Übertragungsantriebswelle. Durch Begründungsgestell abgestützte Lüfter und Motor.

**Lüfter komplett mit Kraftübertragungsorganen, mit Schutzgehäuse, Gründungssockel und B3 Motor ausgestattet**

Ejec. 12 – aspiración simple, acoplamiento por correas. Turbina acoplada directamente al eje de transmisión soportado por la base.

**Ventilador, órganos de transmisión, cárter de protección y motor en construcción B3 soportados a la bancada de fijación.**



Esec. 1 – semplice aspirazione, predisposto per accoppiamento a cinghie. Girante a sbalzo su albero di trasmissione sostenuto dalla base.

**Ventilatore fornito solamente con albero (monoblocco) di trasmissione, senza motore**

Arrangement 1 – simple suction, set for belt drive. Overhanging impeller on belt shaft supported by the base.  
**Fan supplied only with belt shaft (bearing block), without motor**

Arrangement 1 – aspiration simple, prédisposé pour entraînement à courroies. Turbine clavetée en bout d'arbre de transmission soutenu par la base.

**Ventilateur livré seulement avec arbre (monobloc) de transmission, sans moteur**

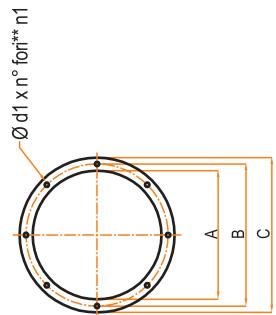
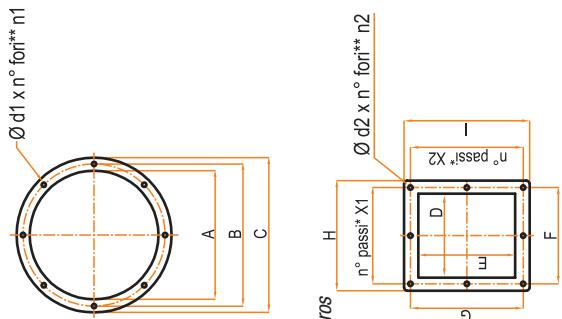
Durchführung 1 - schlichtes Ansaugen, für Riemenkoppelung versehen. Fliegend angeordnetes Laufrad auf der durch die Basis abgestützten Übertragungsantriebswelle.

**Lüfter nur mit Antriebswelle (integrierte Einheit), ohne Motor, ausgestattet**

Ejec. 1 – aspiración simple, predisuelto para acoplamiento por correas. Turbina acoplada directamente al eje de transmisión soportado por la base.

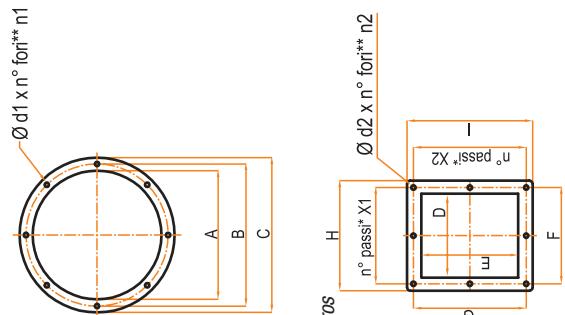
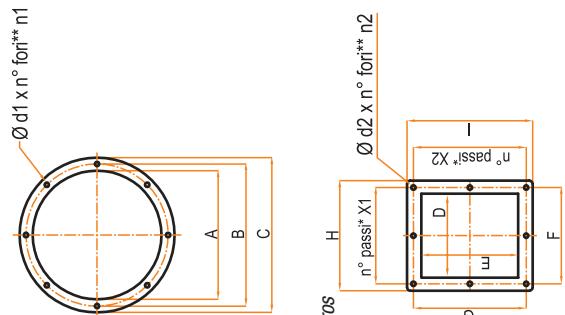
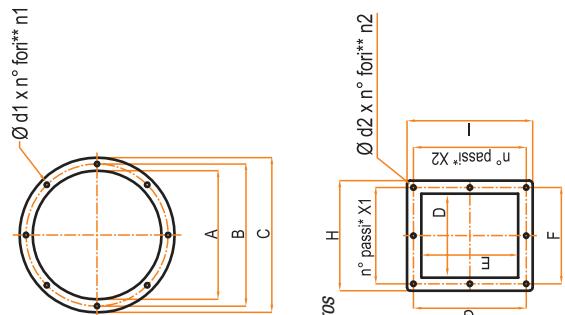
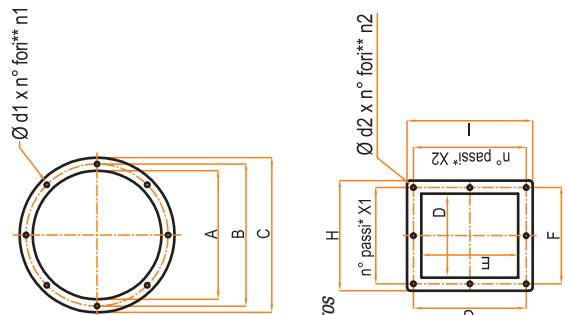
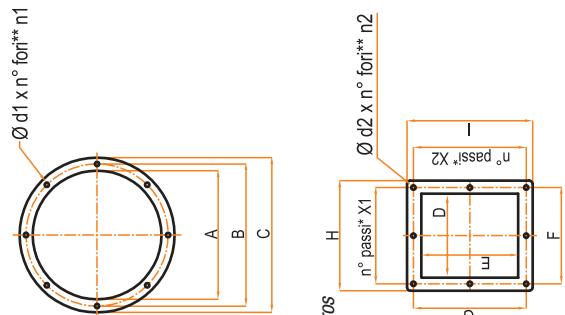
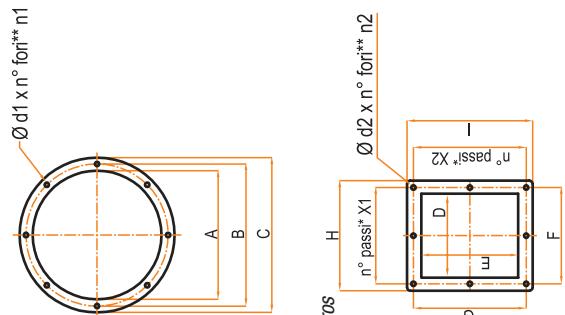
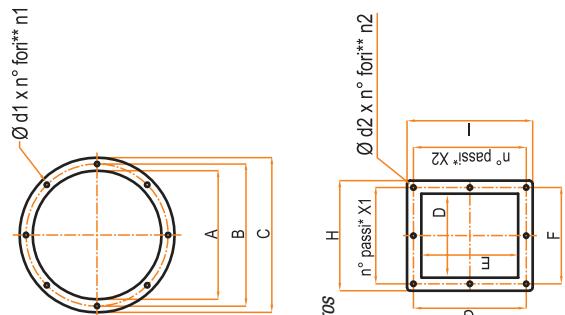
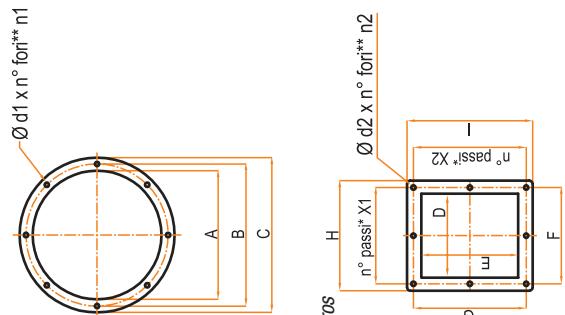
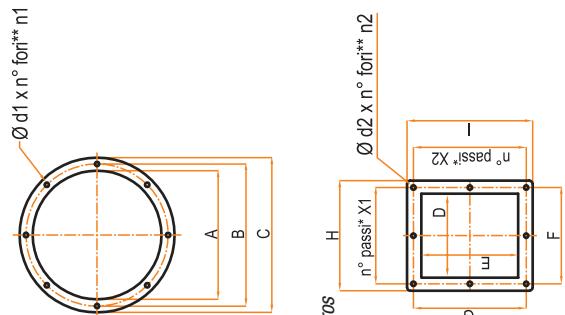
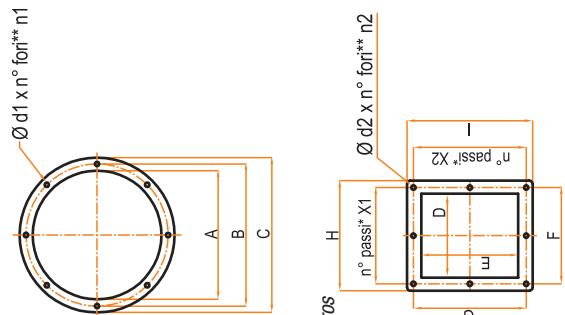
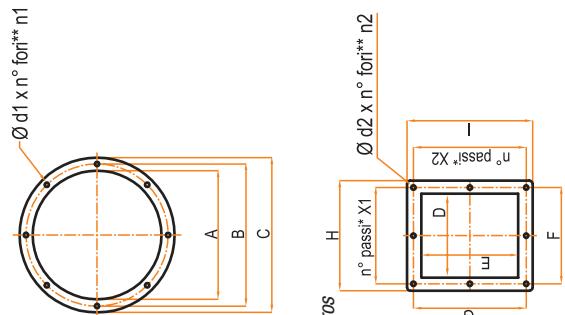
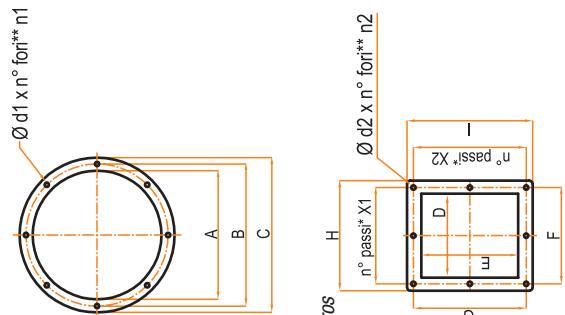
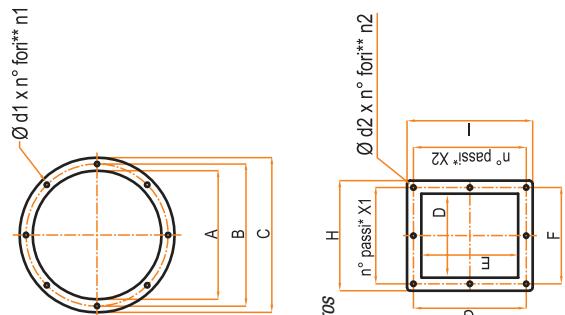
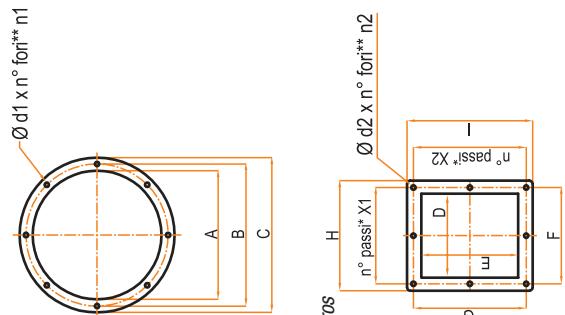
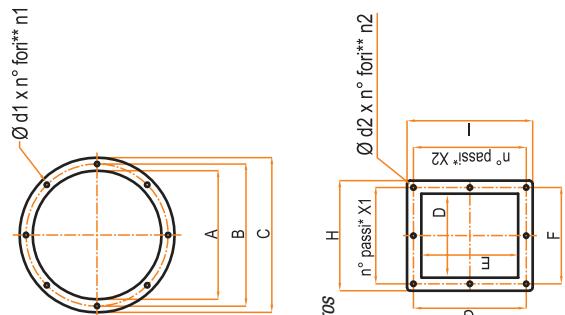
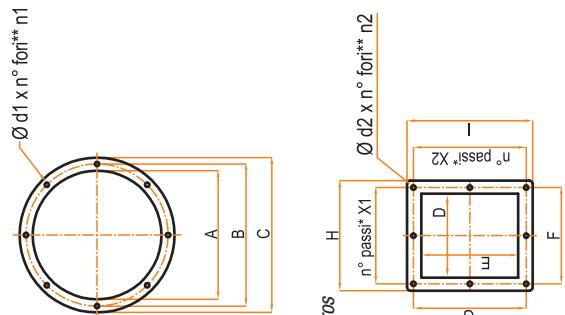
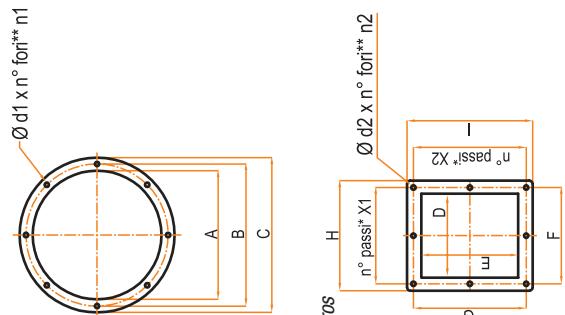
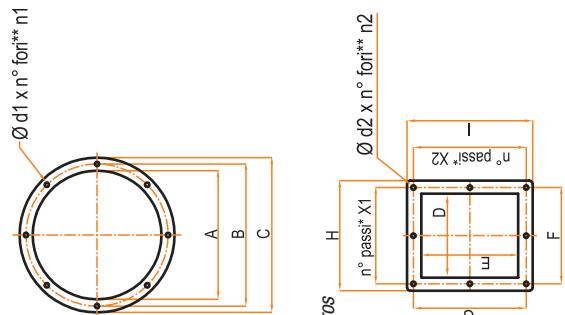
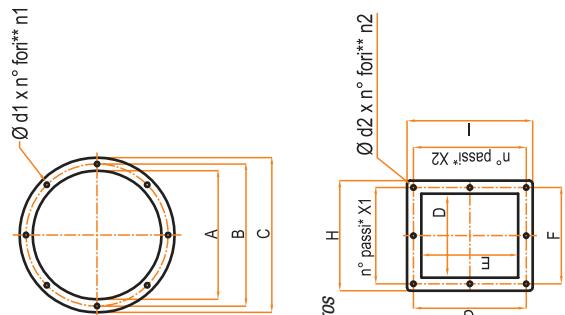
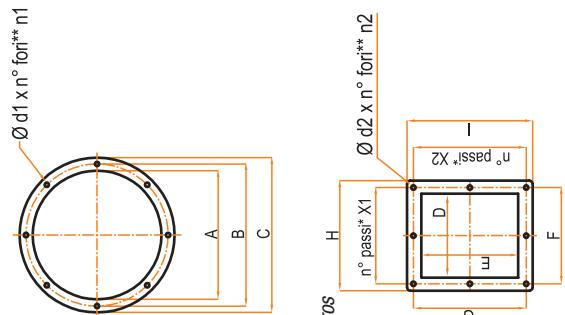
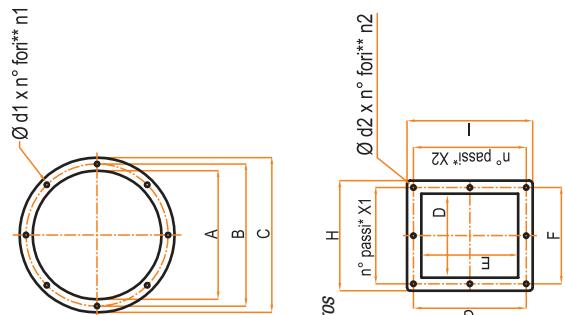
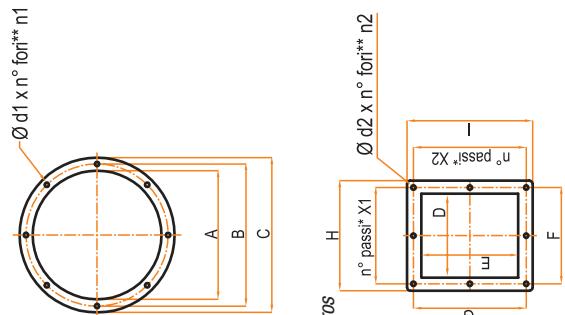
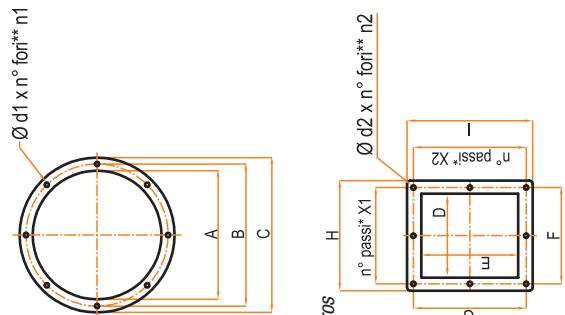
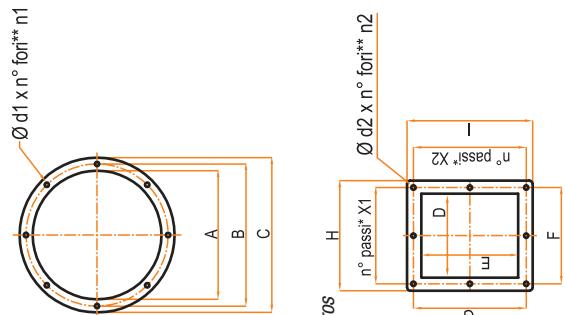
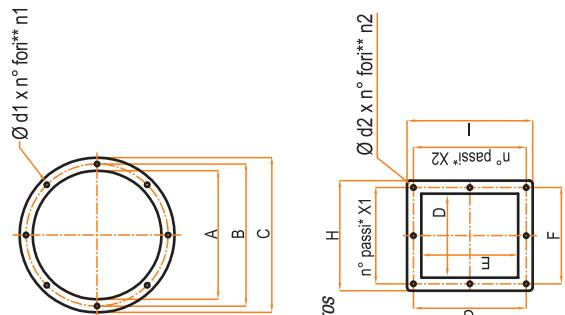
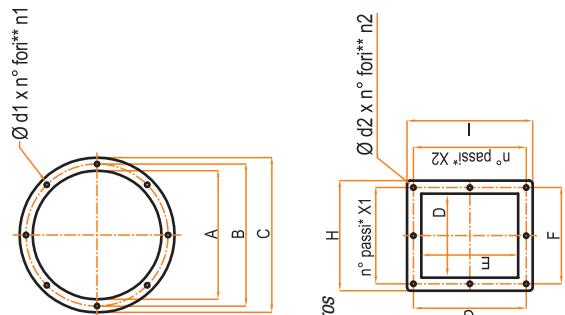
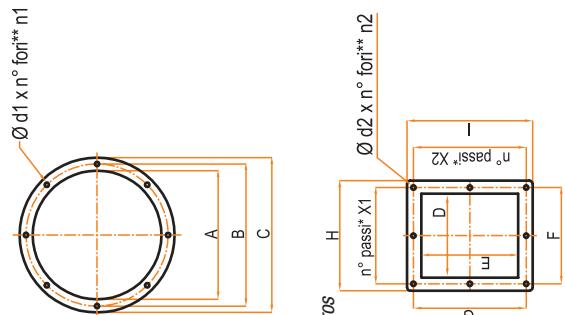
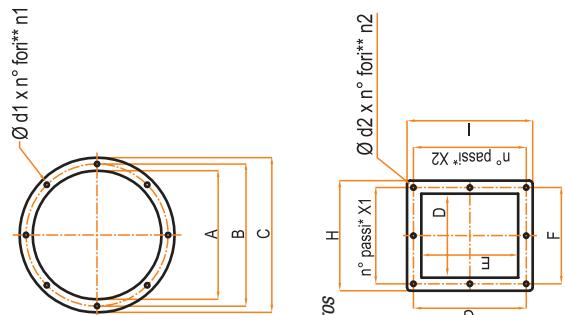
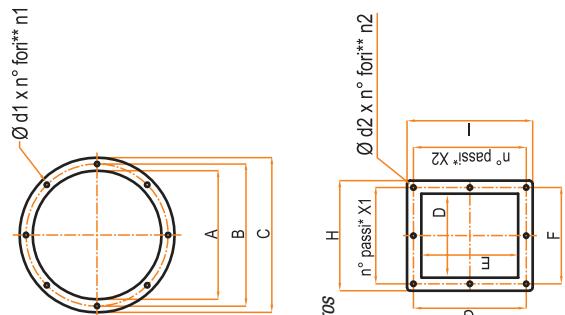
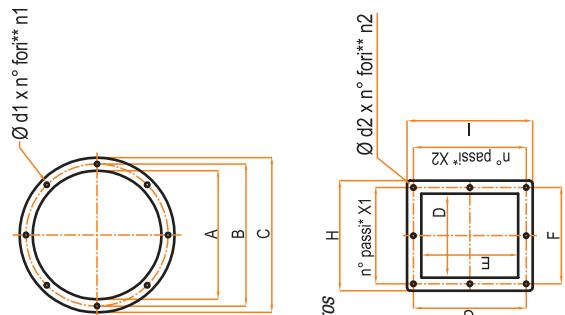
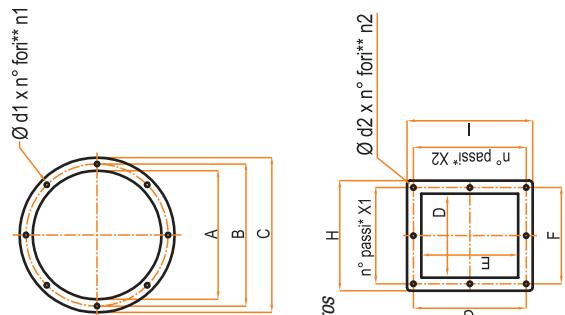
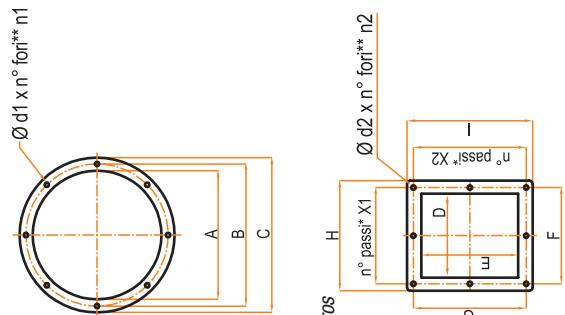
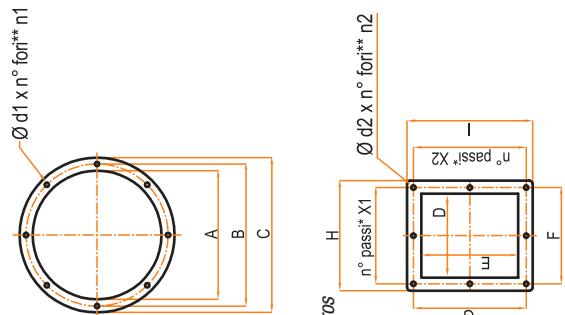
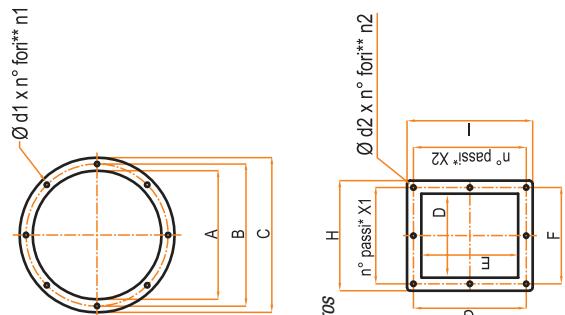
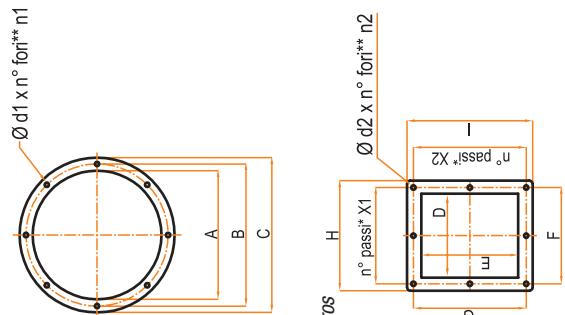
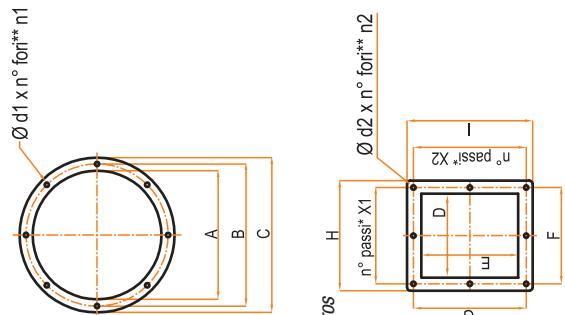
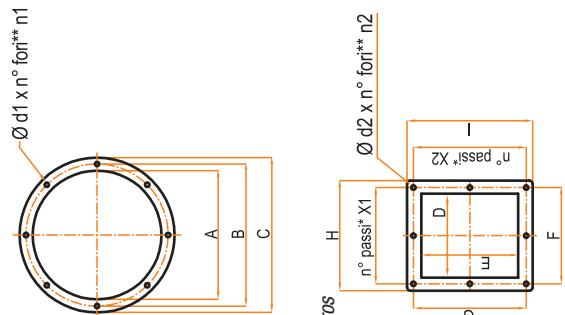
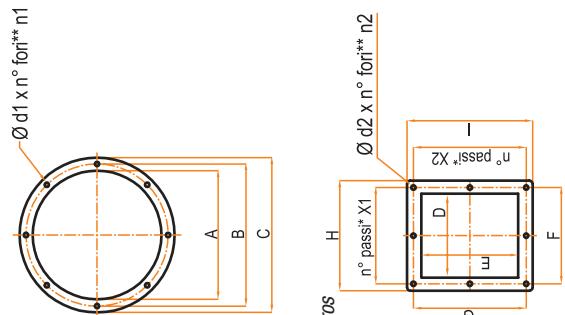
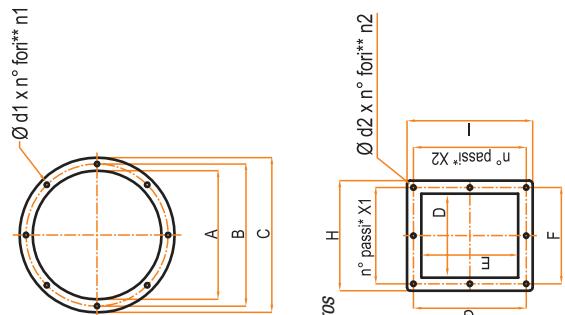
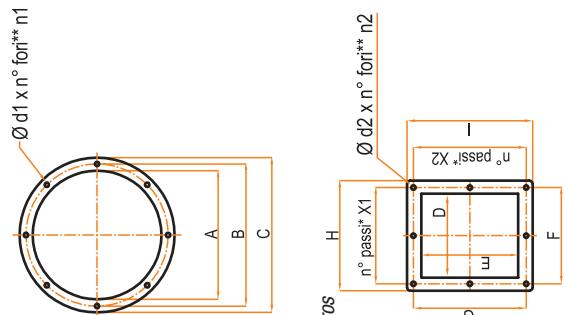
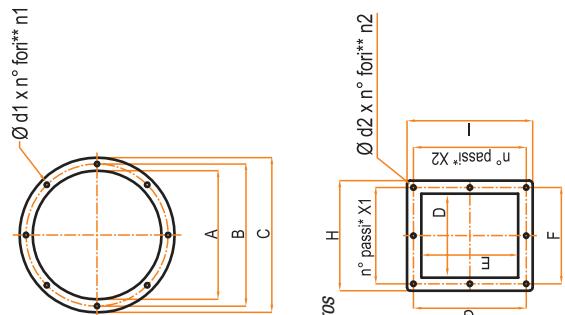
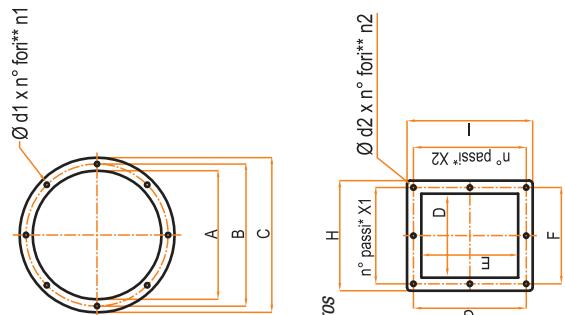
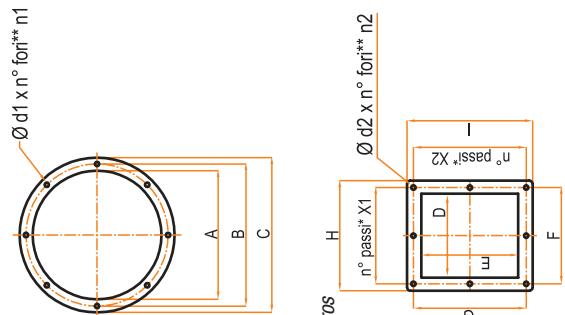
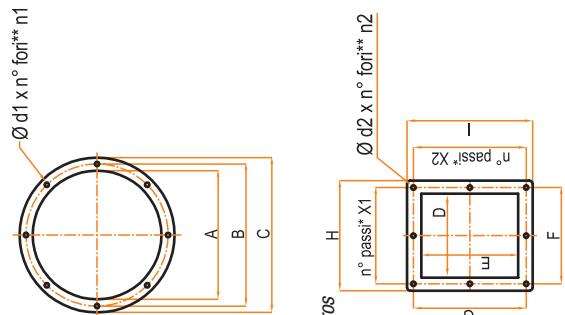
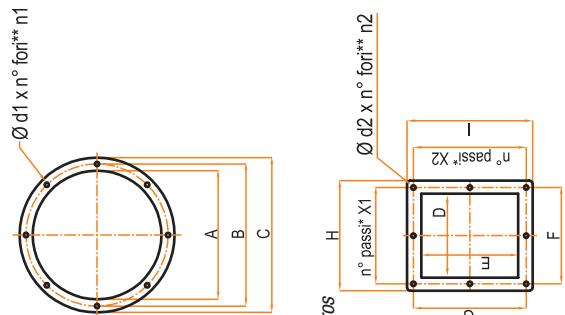
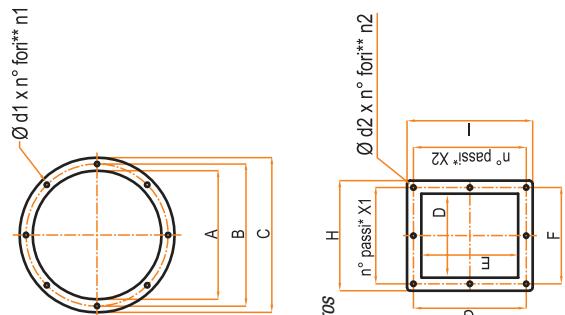
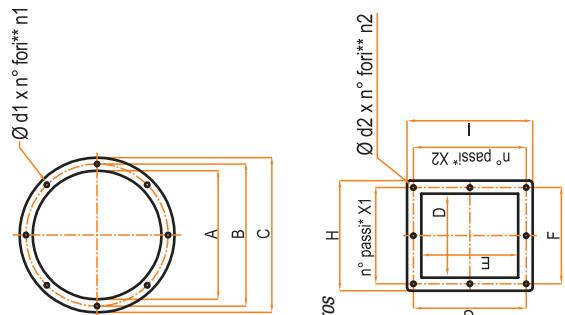
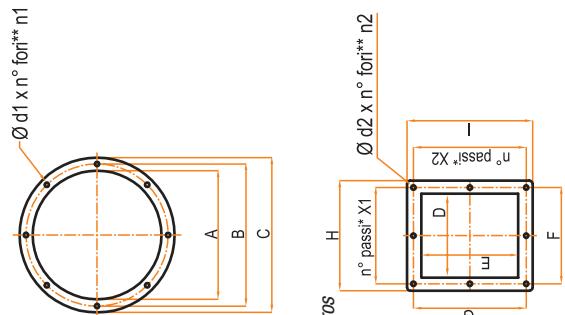
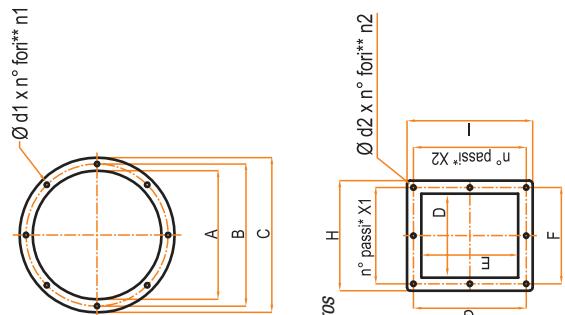
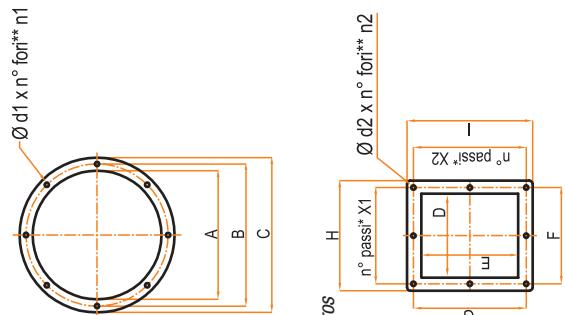
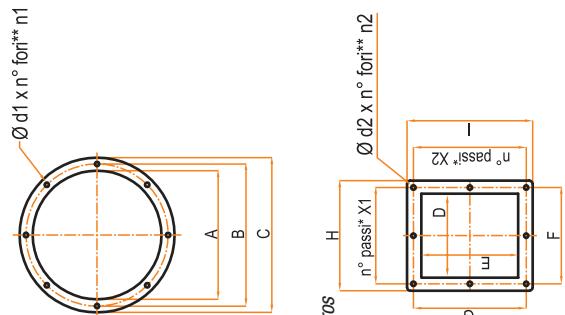
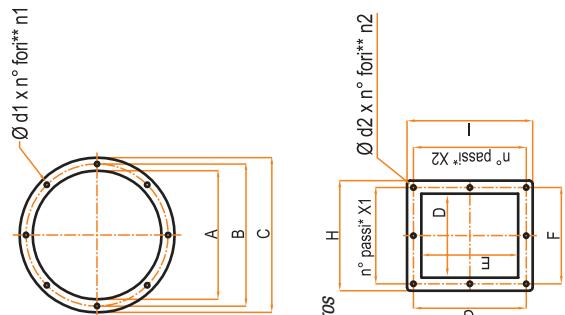
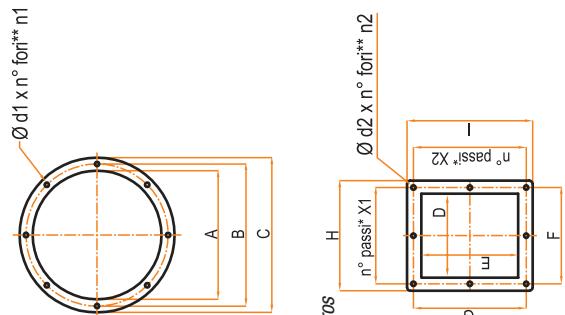
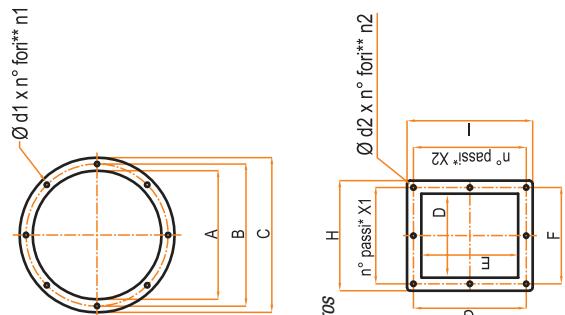
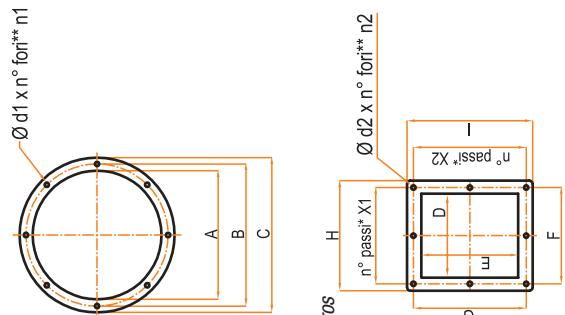
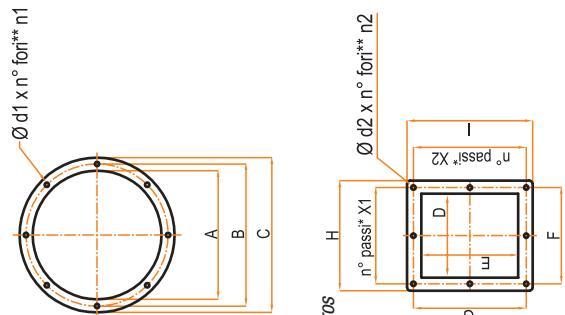
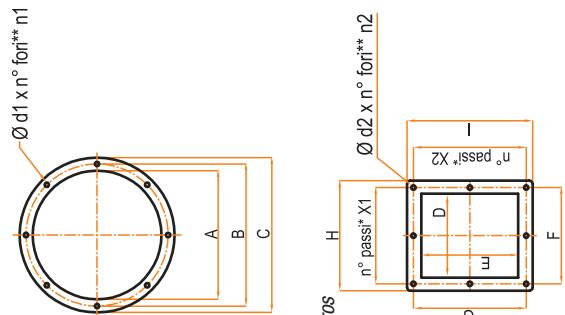
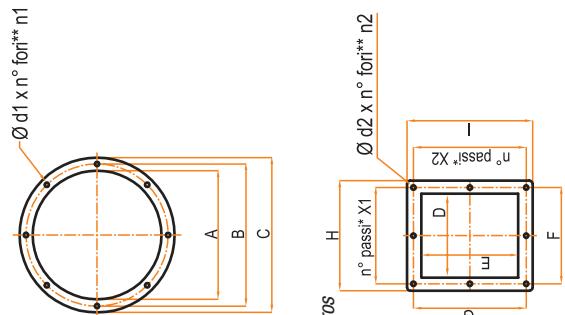
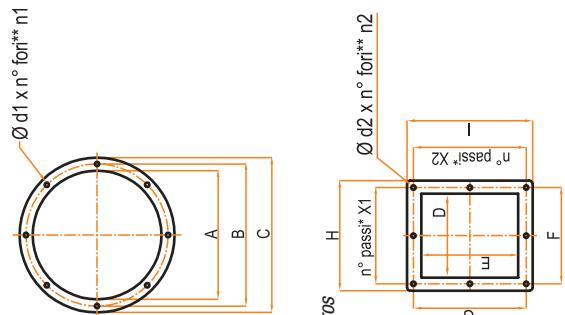
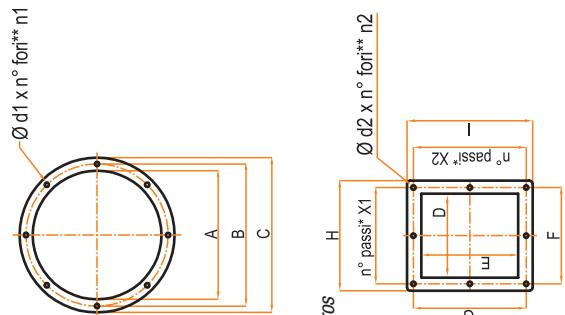
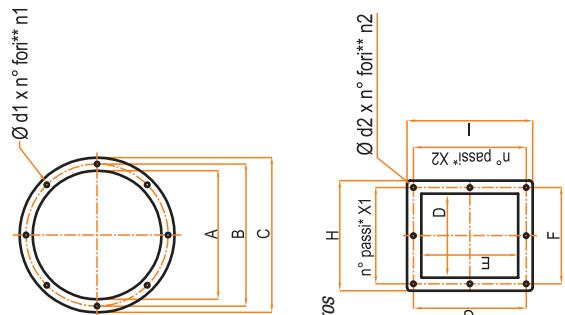
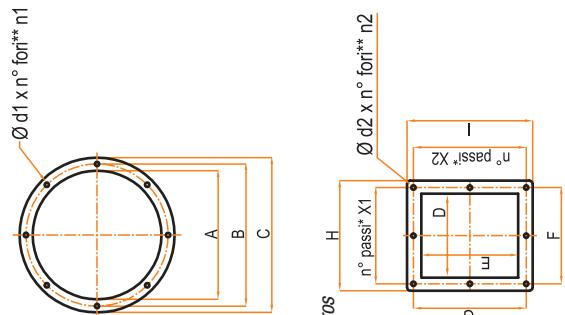
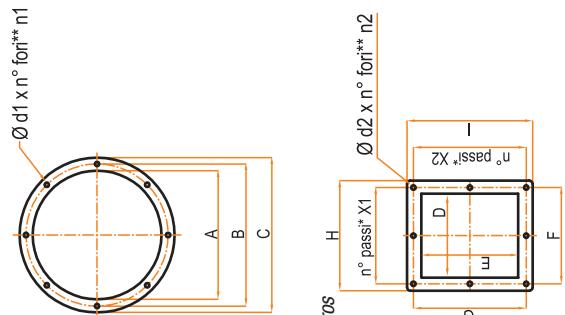
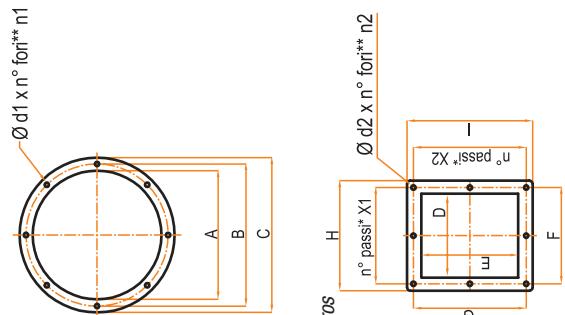
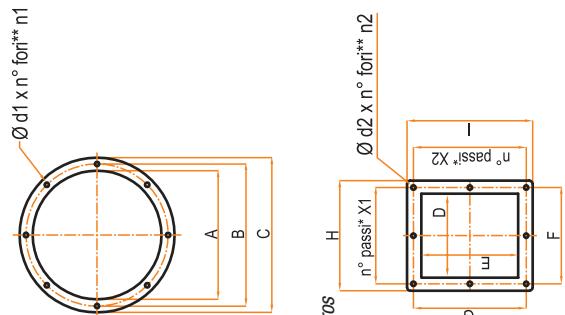
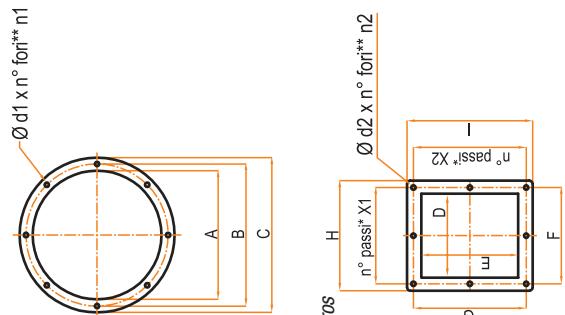
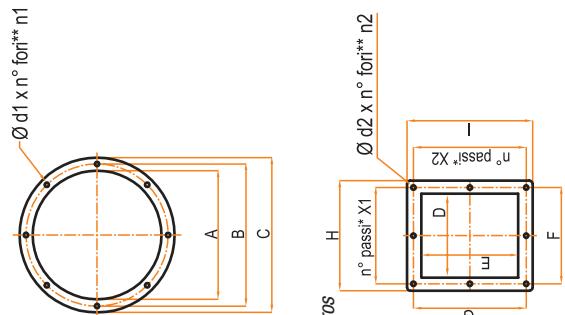
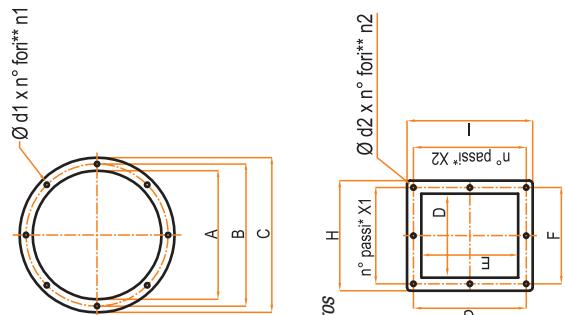
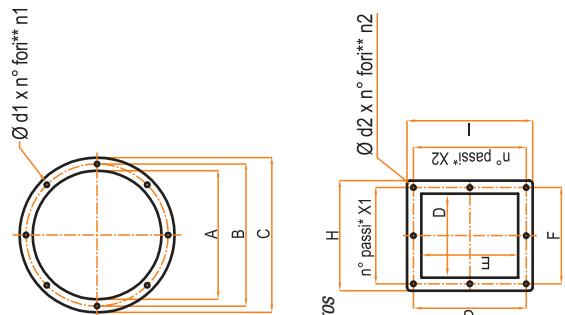
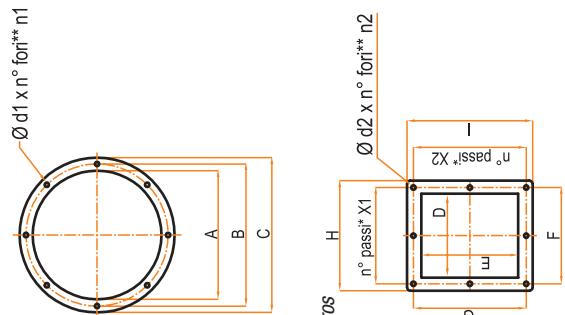
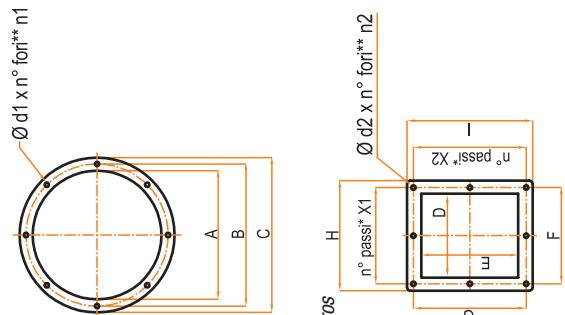
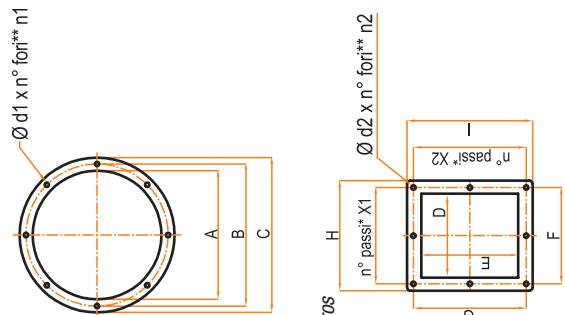
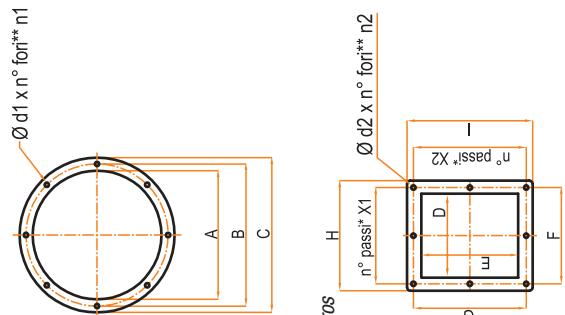
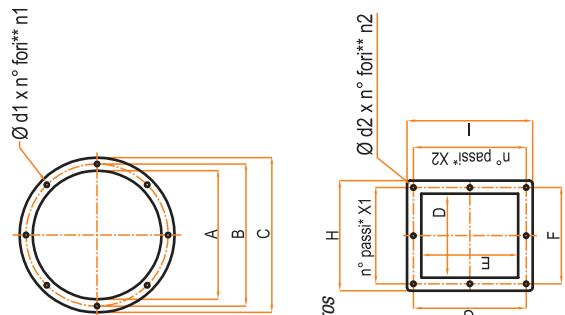
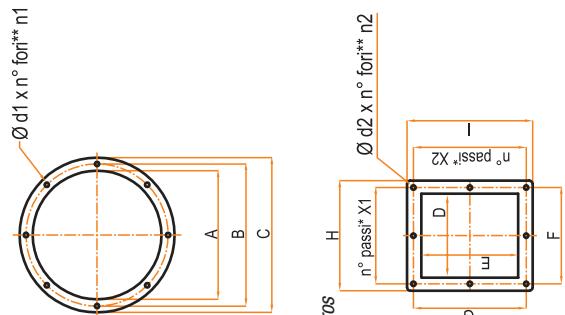
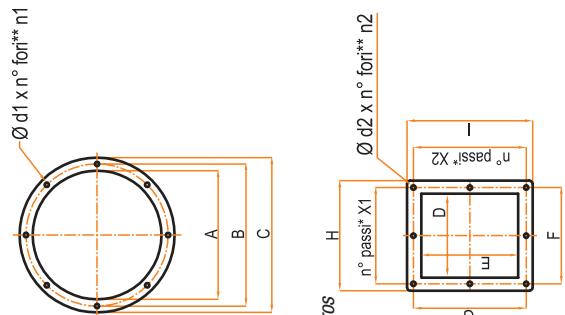
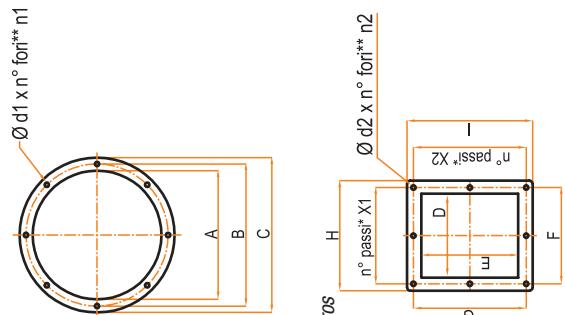
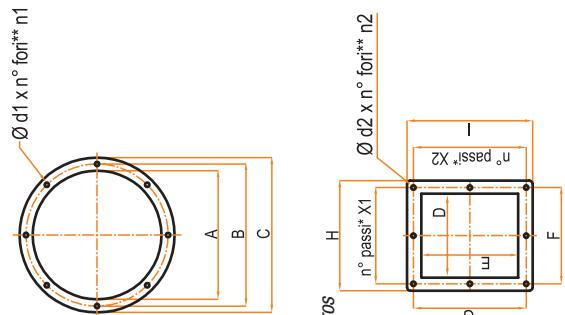
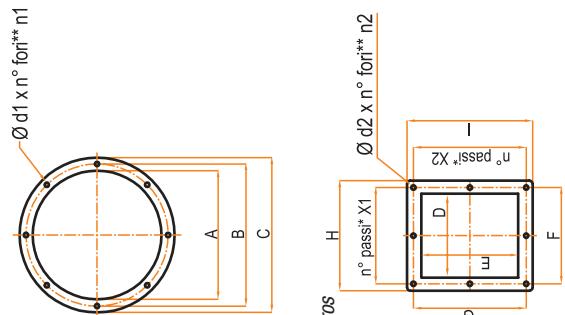
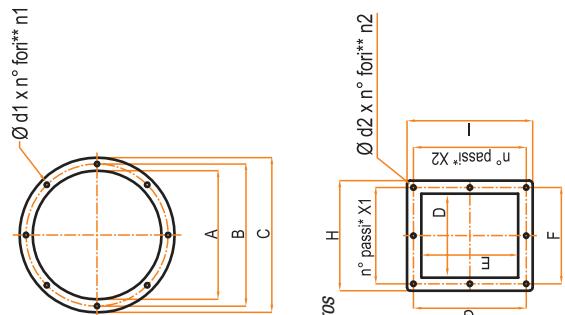
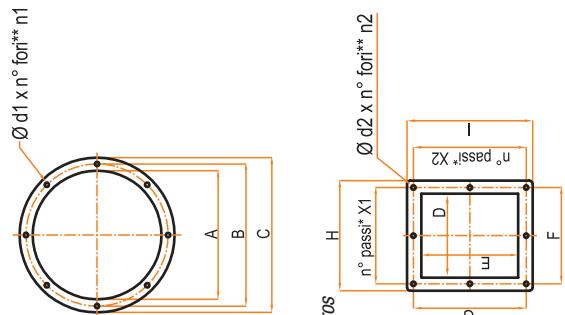
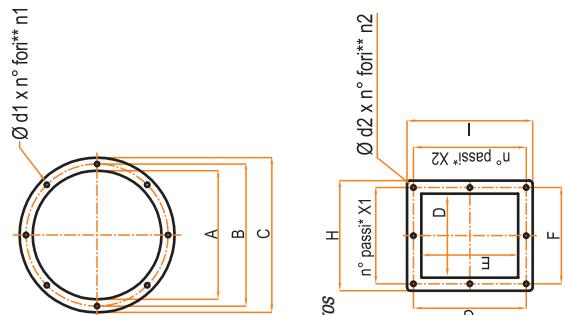
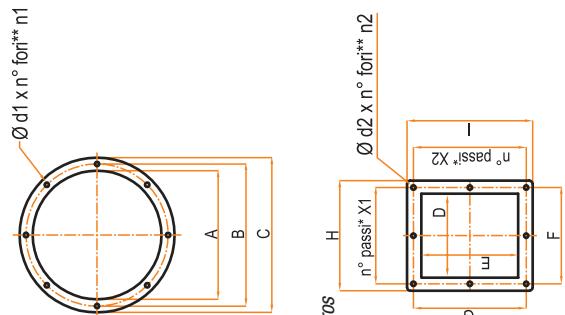
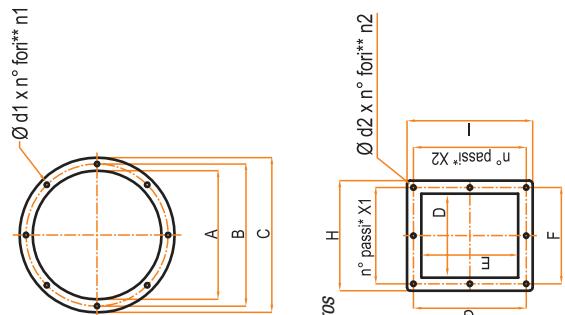
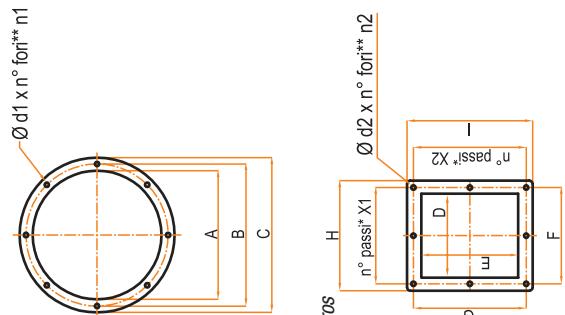
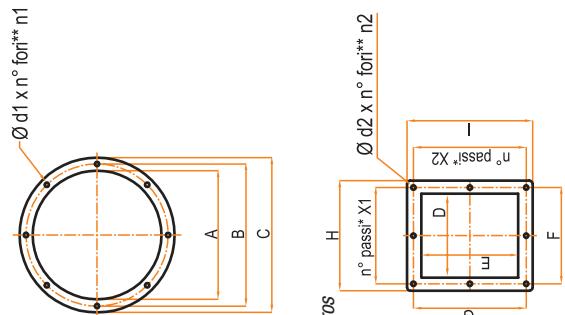
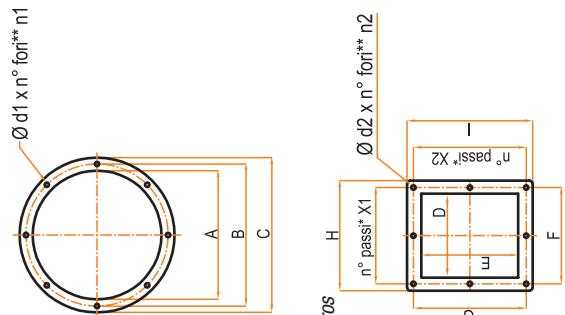
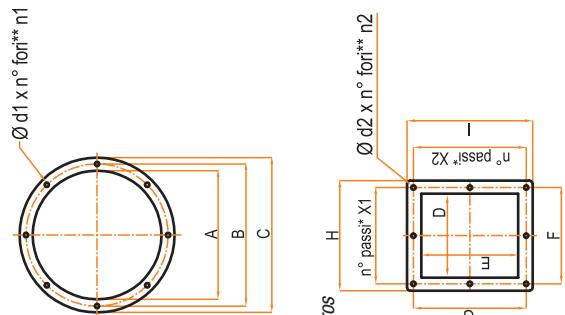
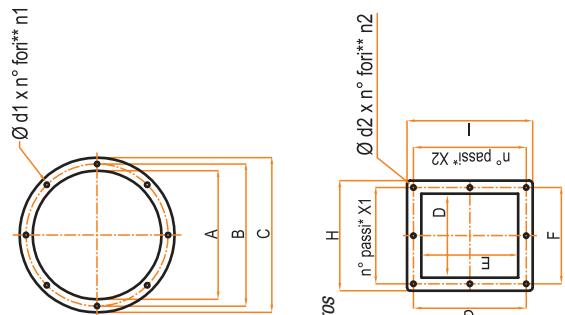
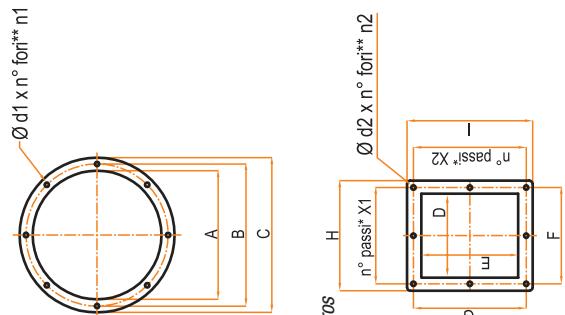
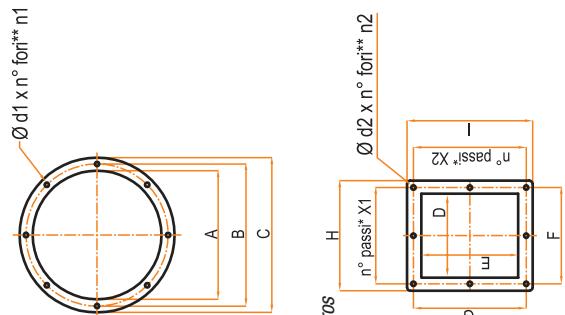
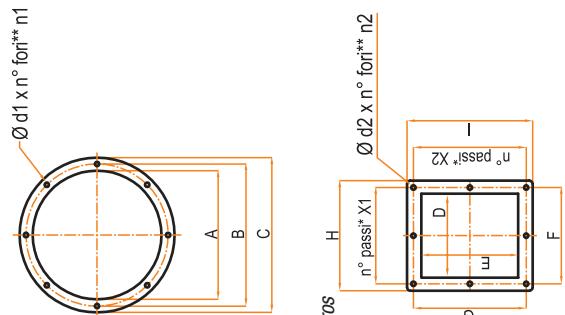
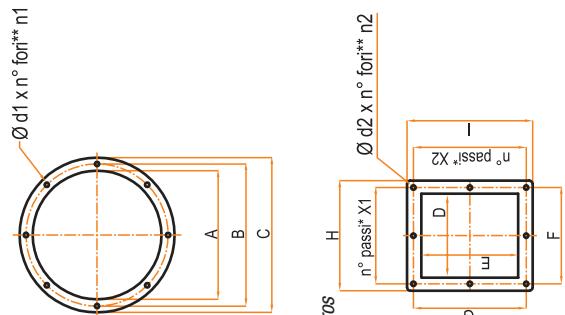
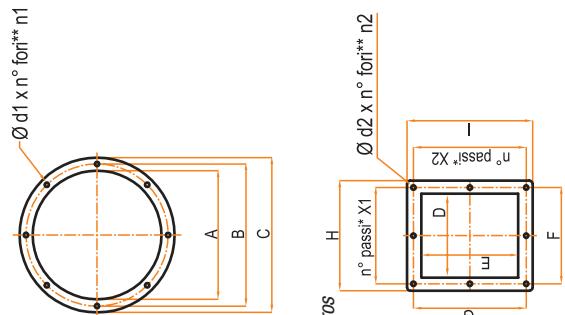
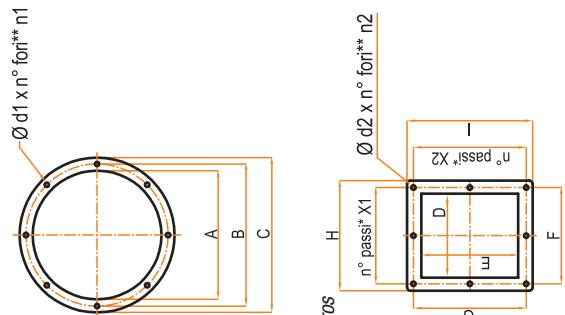
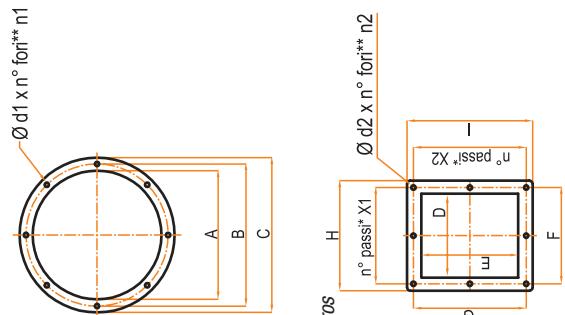
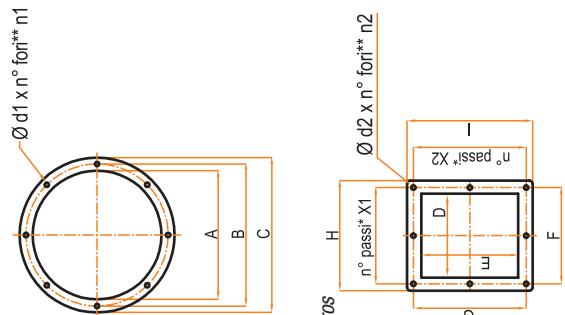
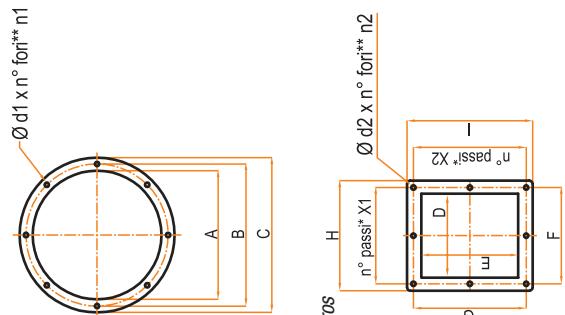
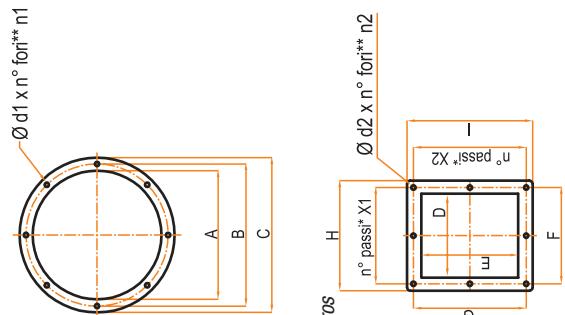
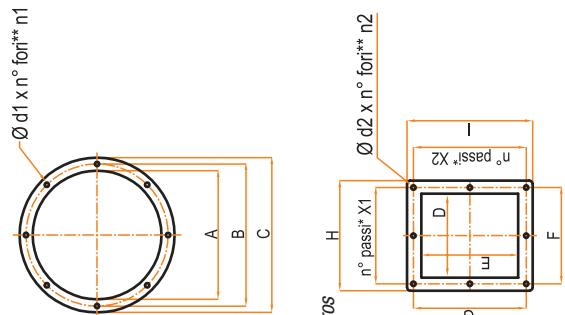
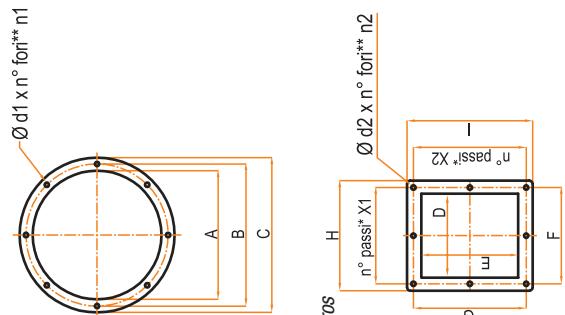
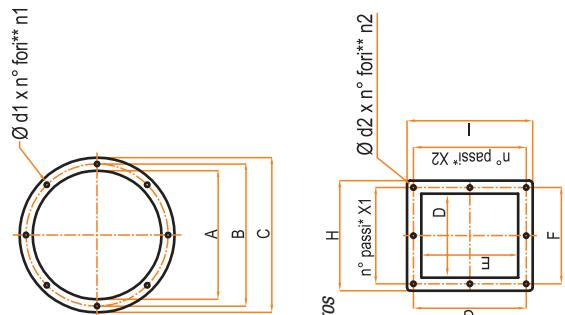
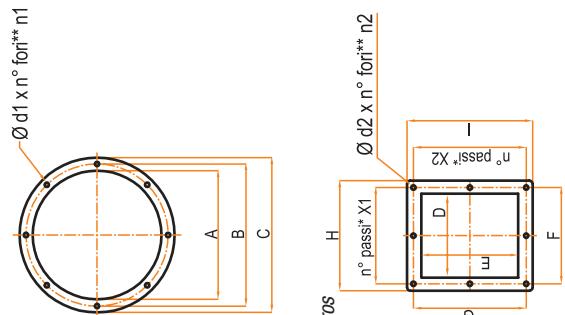
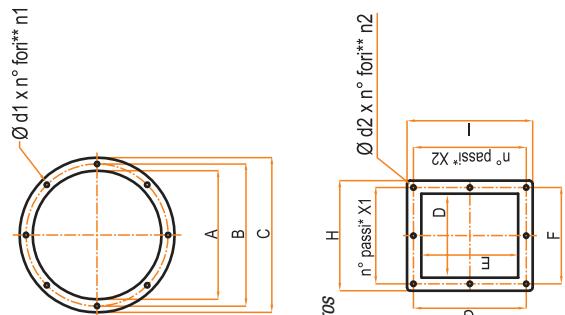
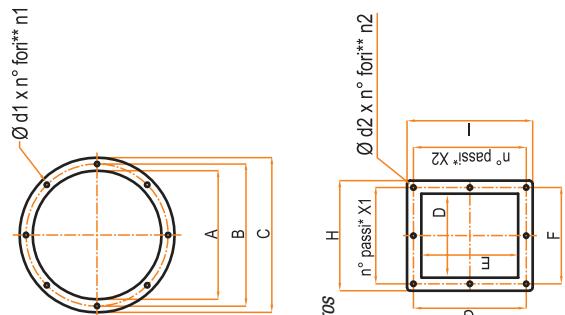
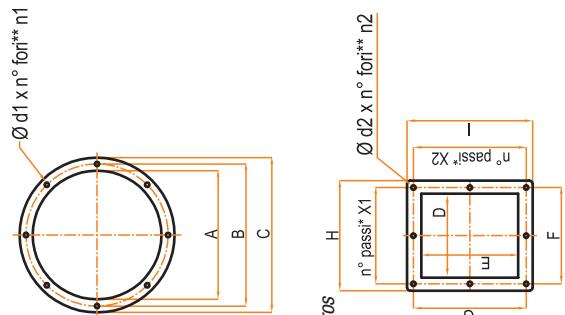
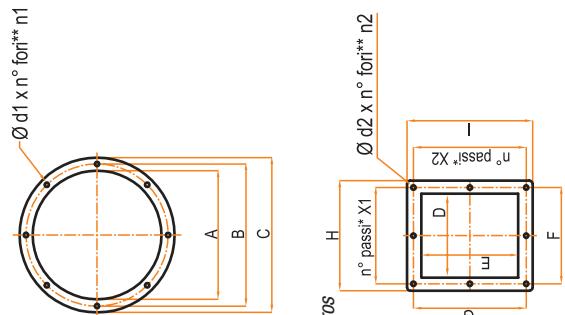
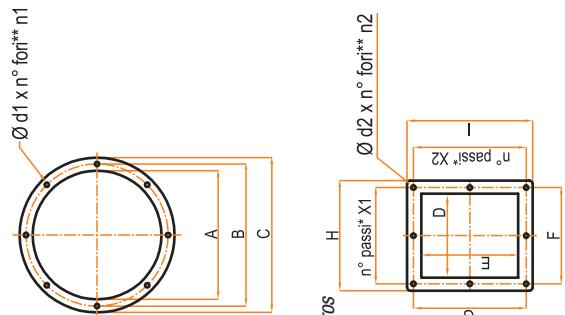
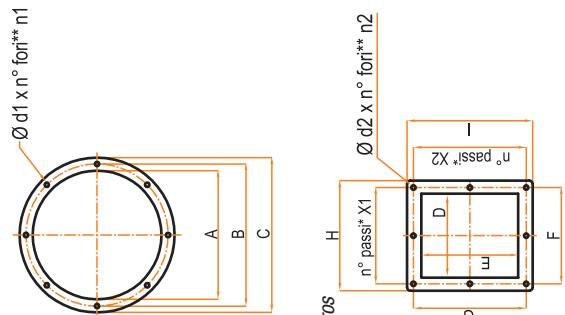
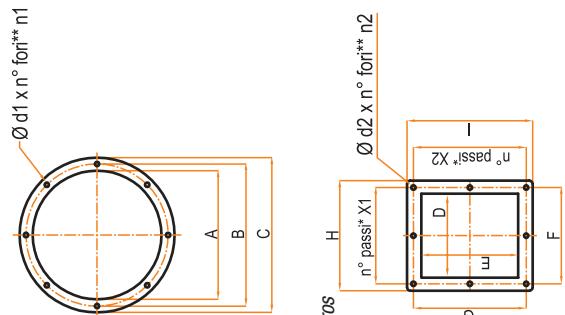
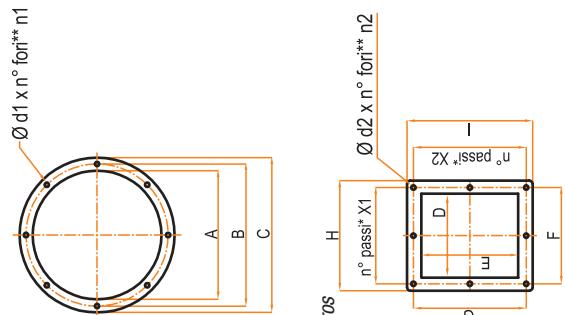
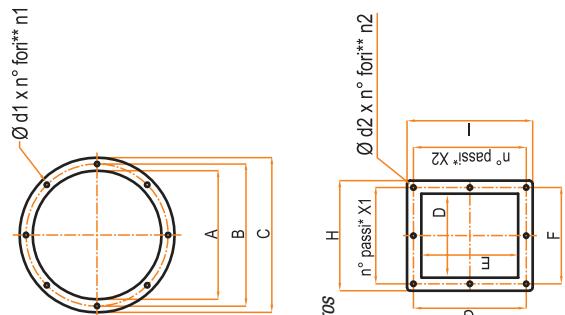
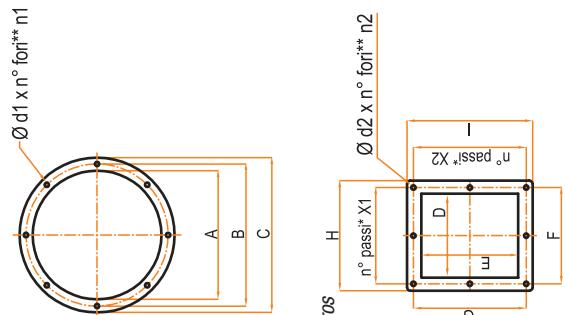
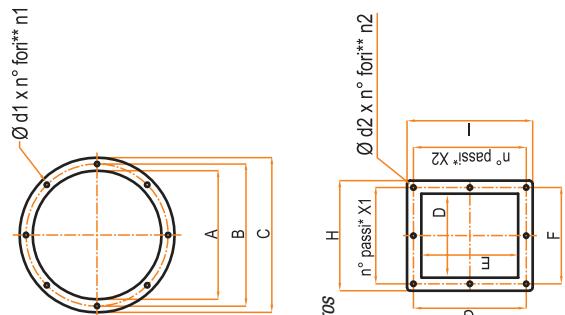
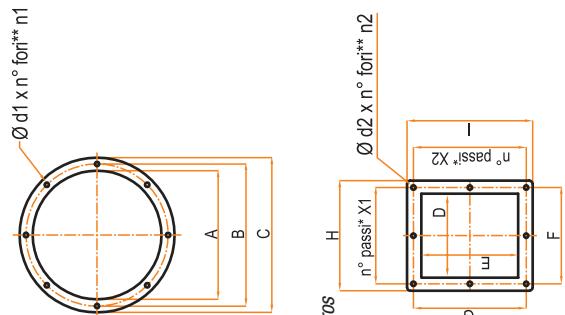
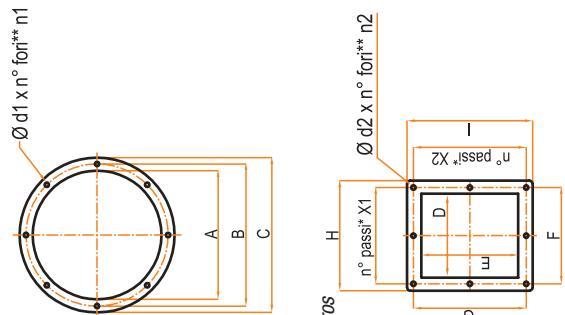
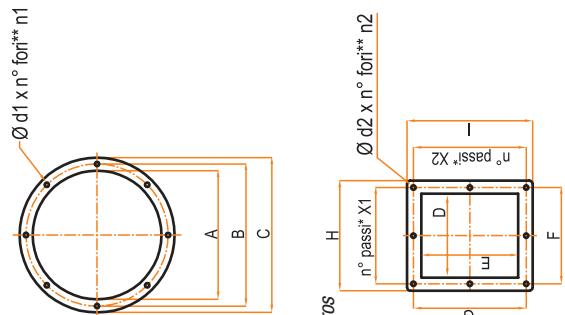
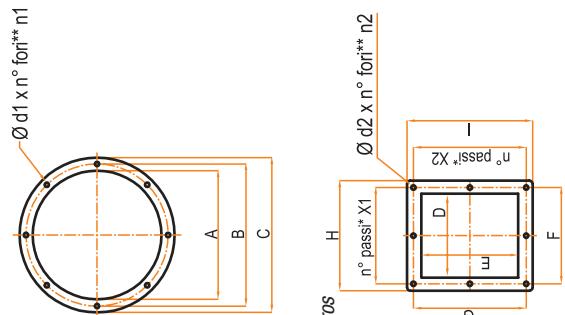
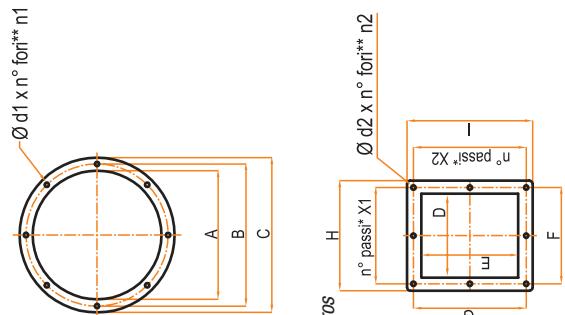
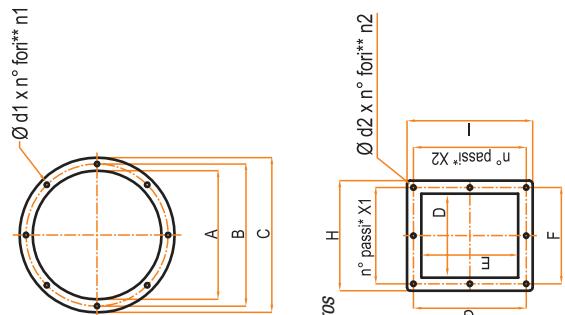
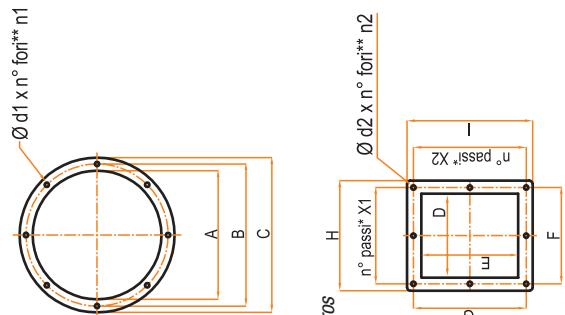
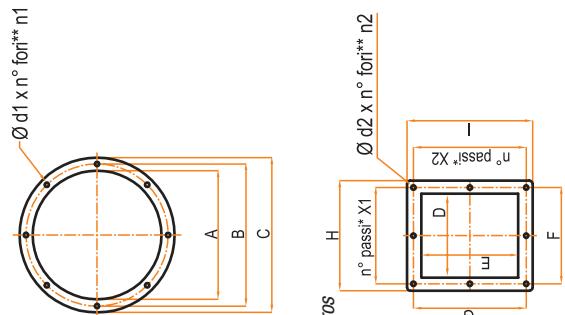
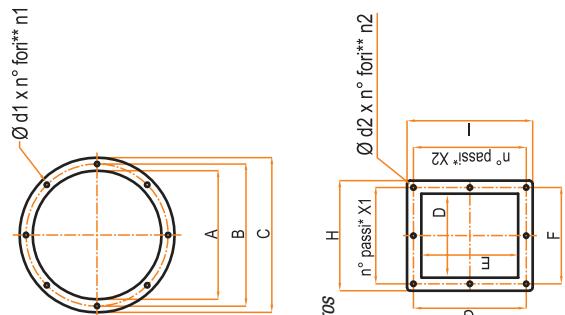
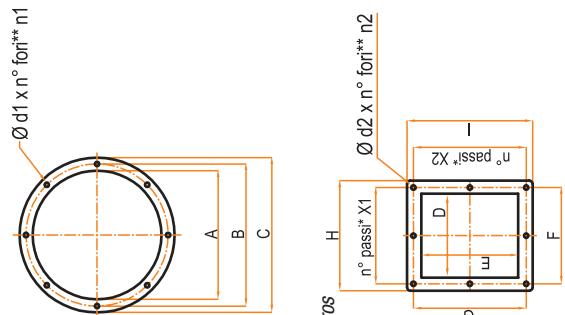
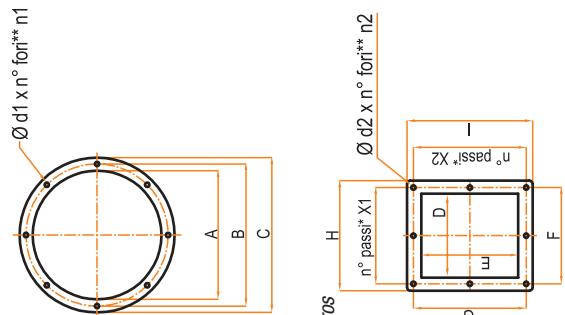
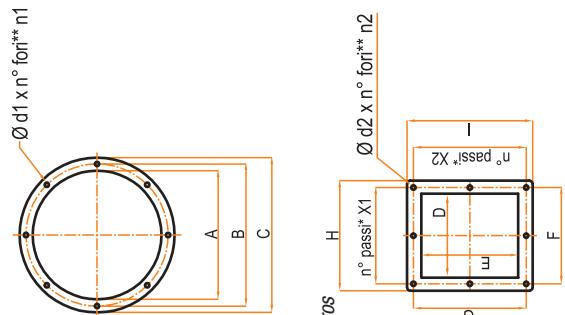
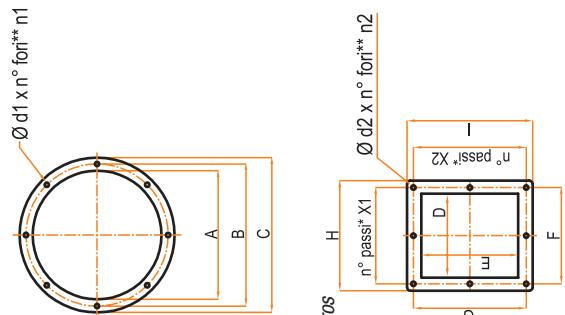
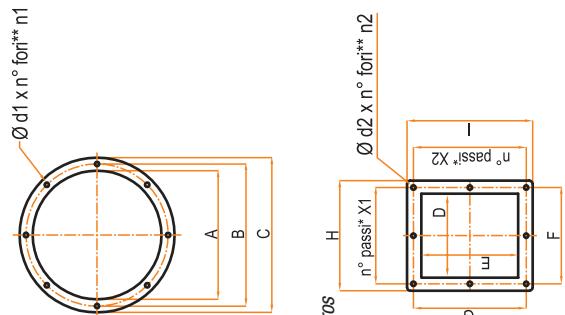
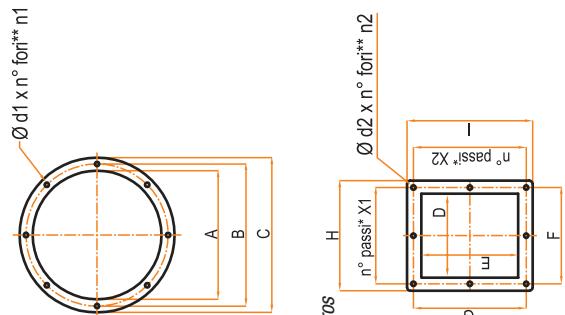
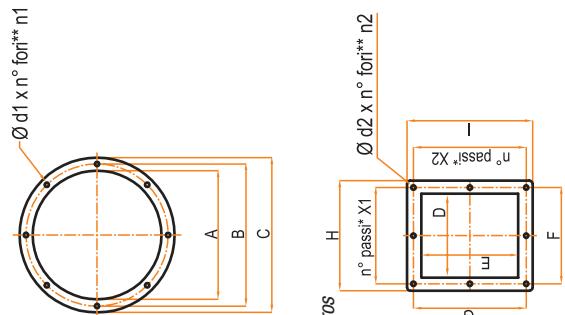
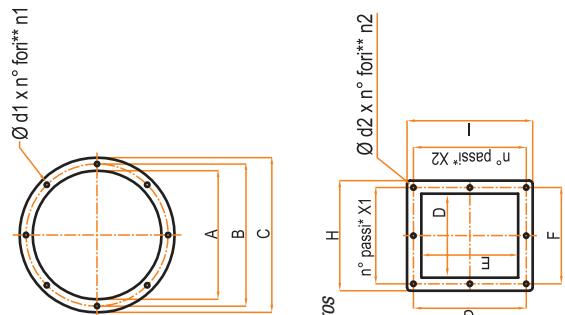
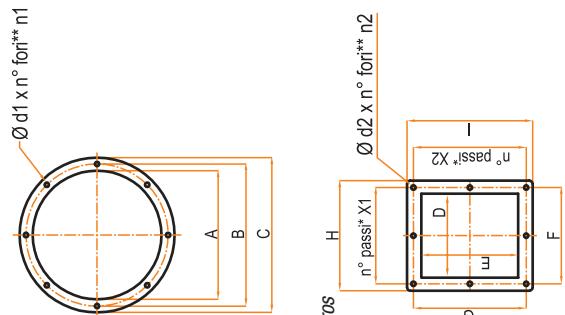
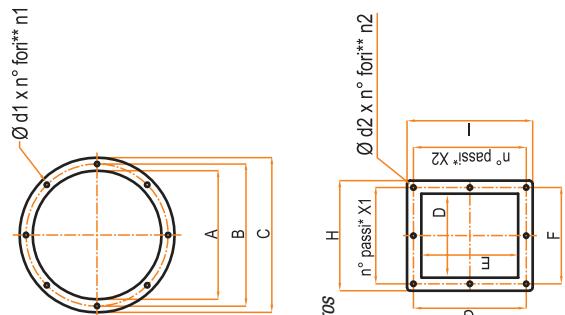
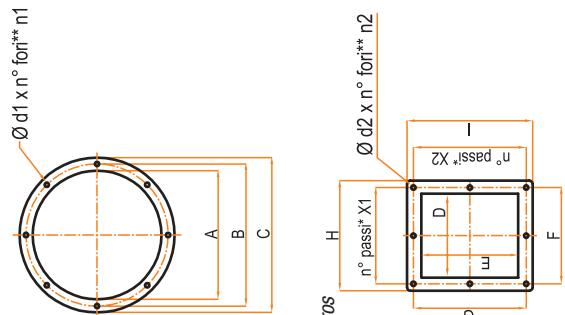
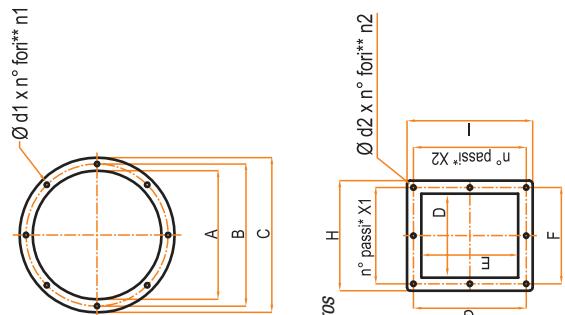
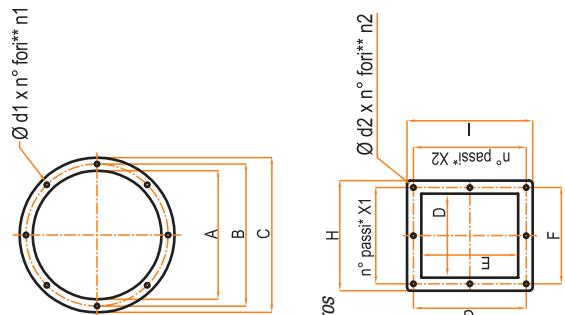
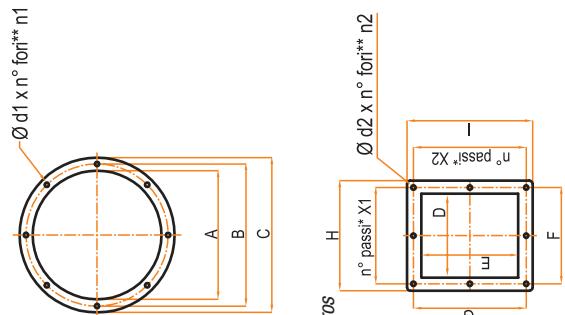
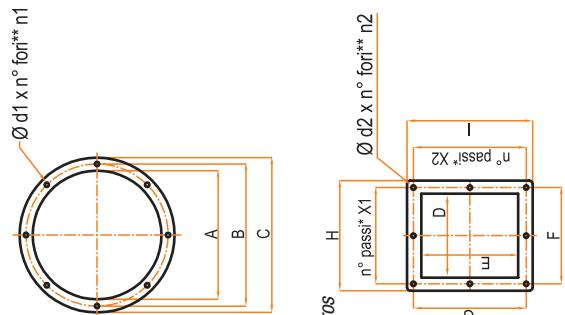
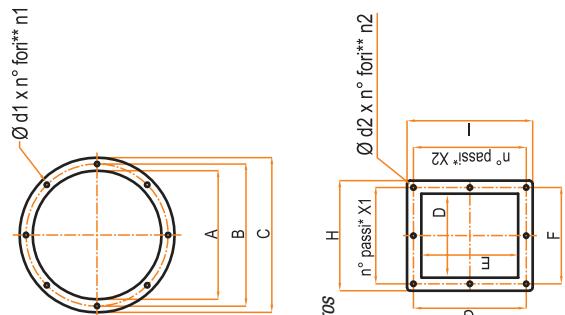
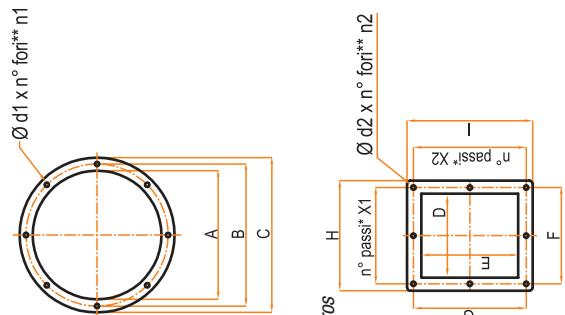
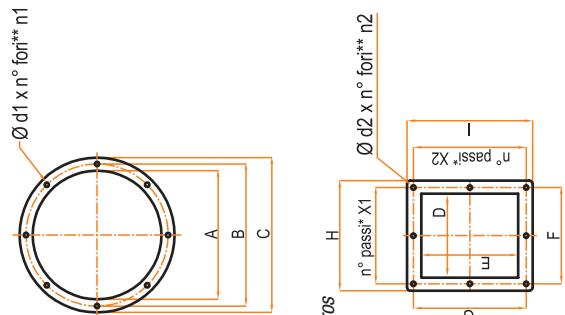
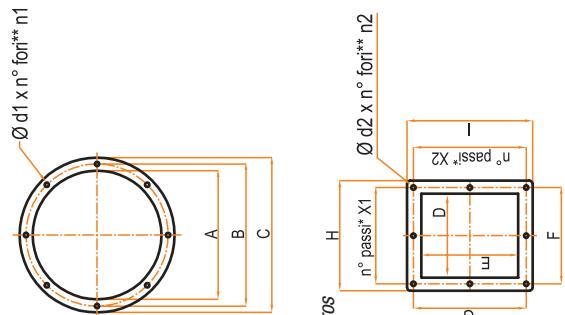
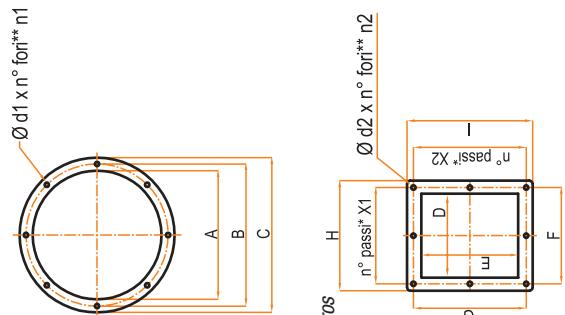
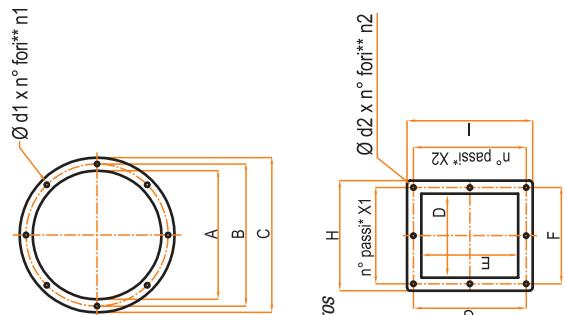
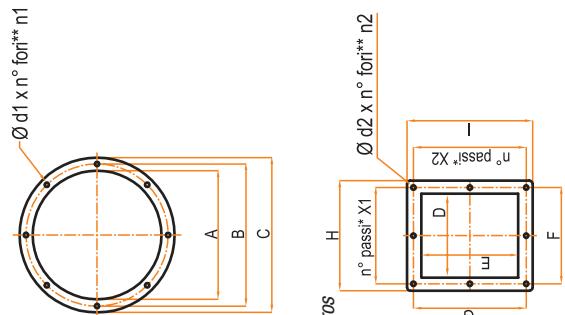
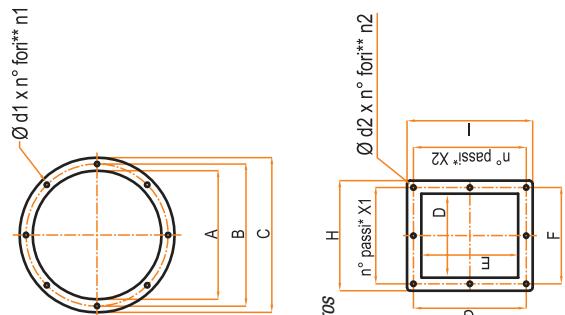
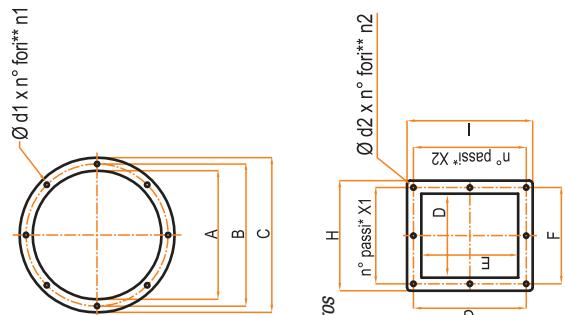
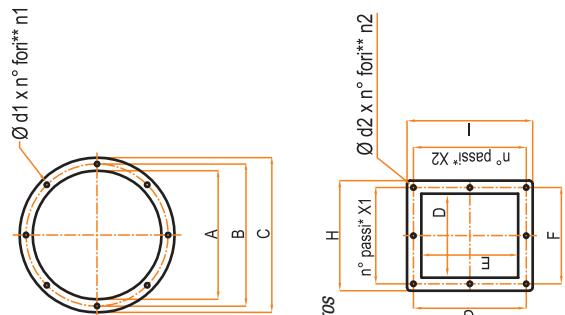
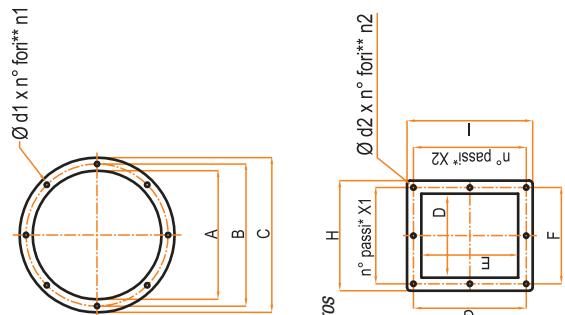
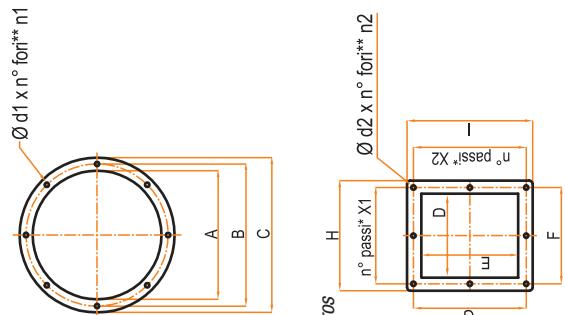
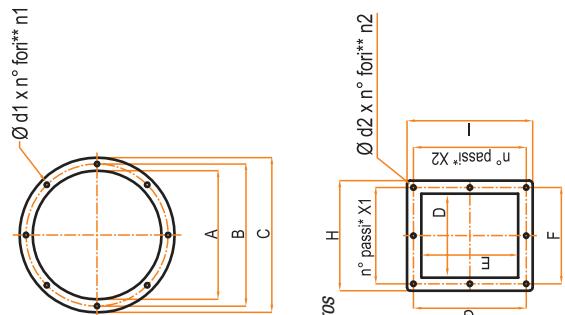
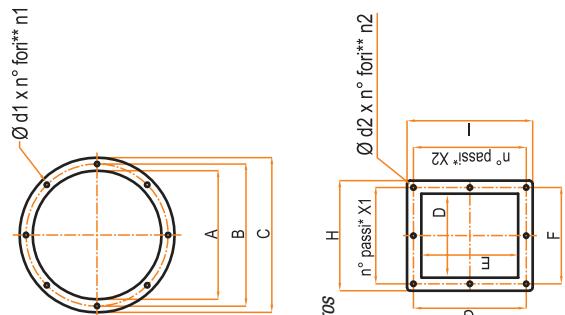
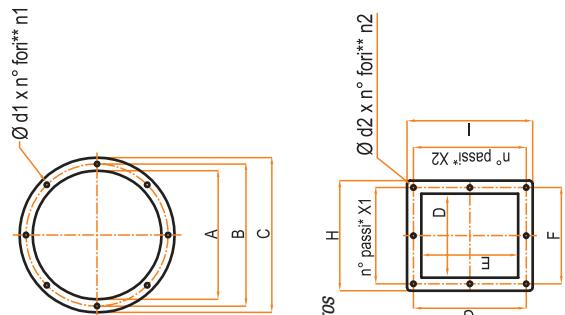
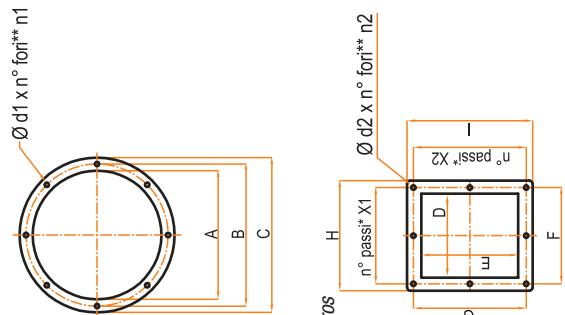
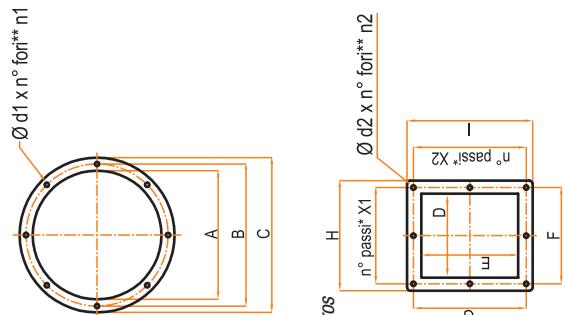
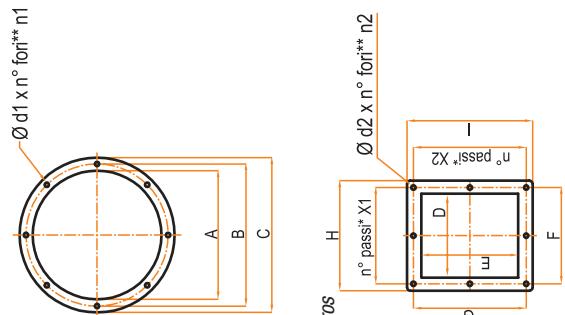
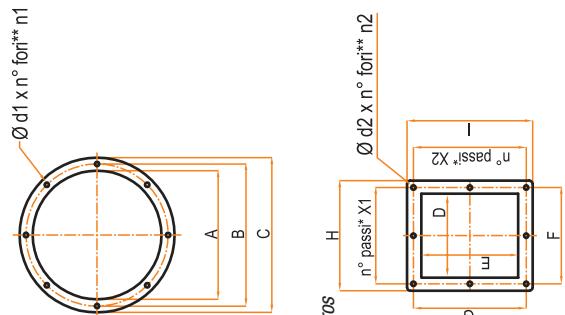
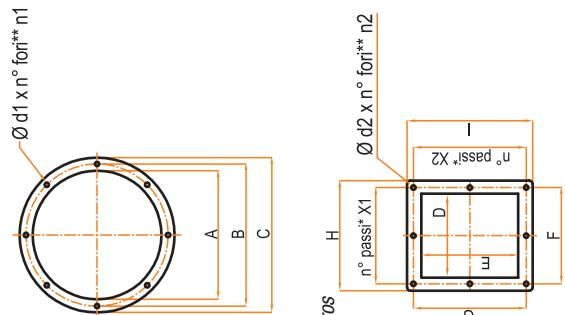
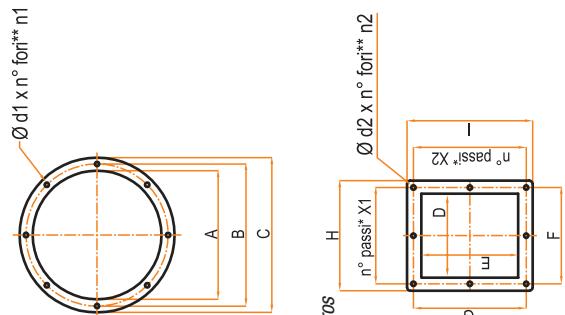
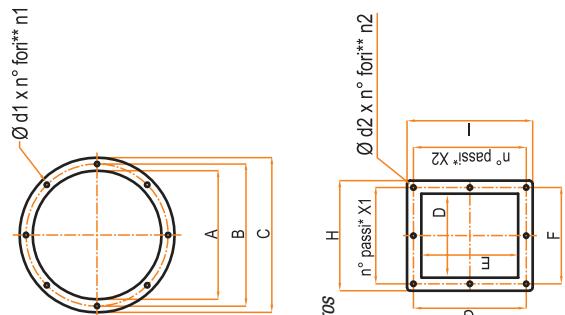
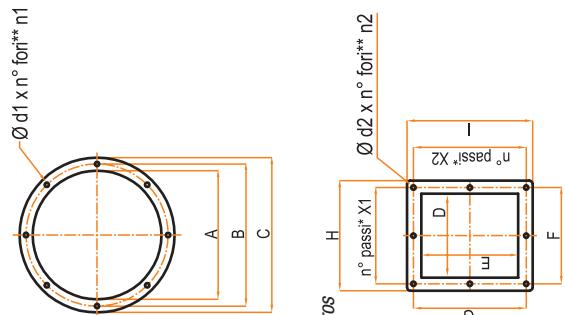
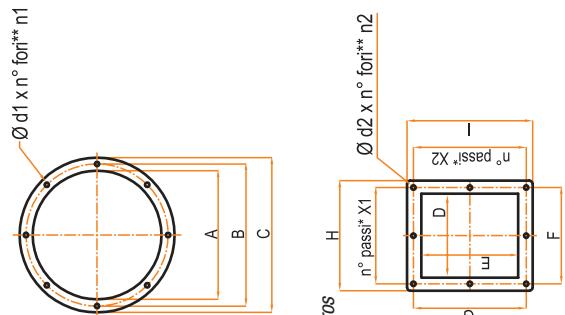
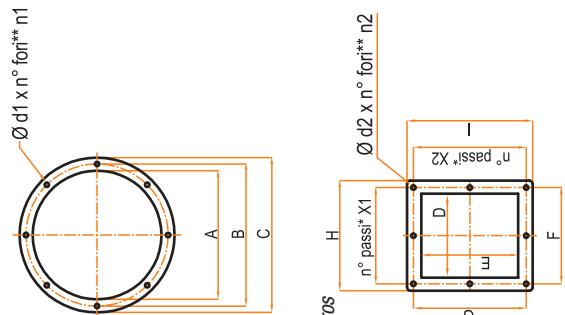
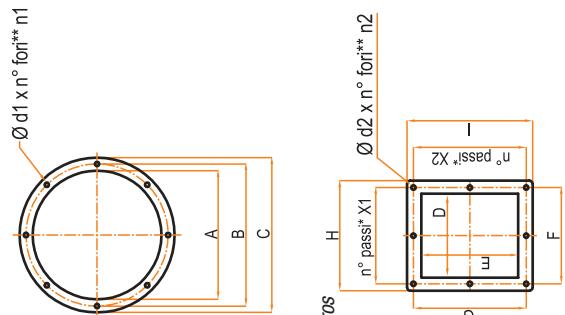
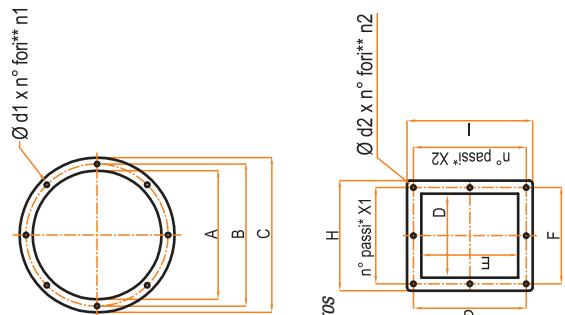
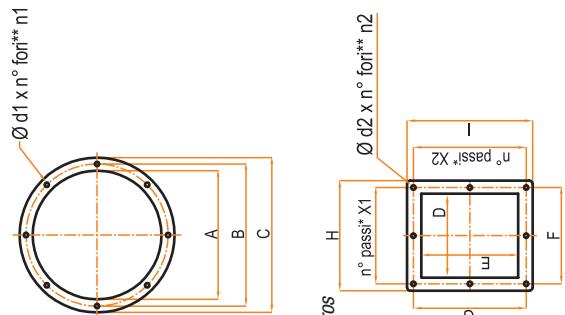
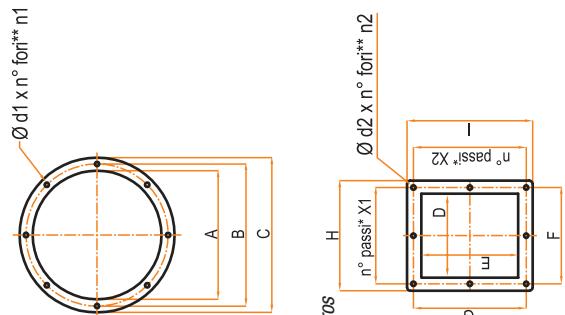
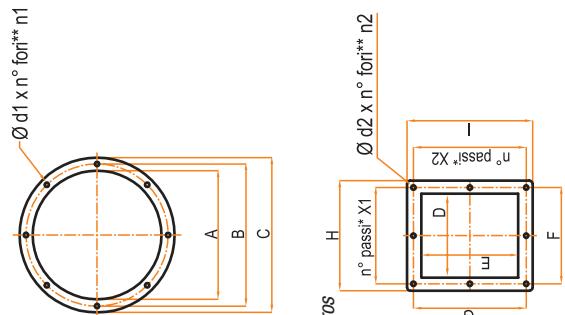
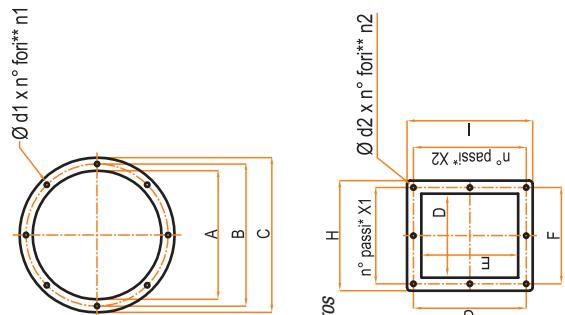
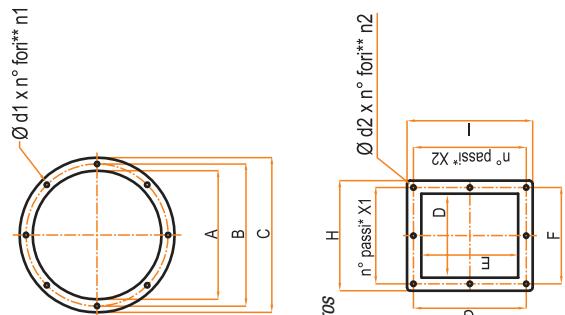
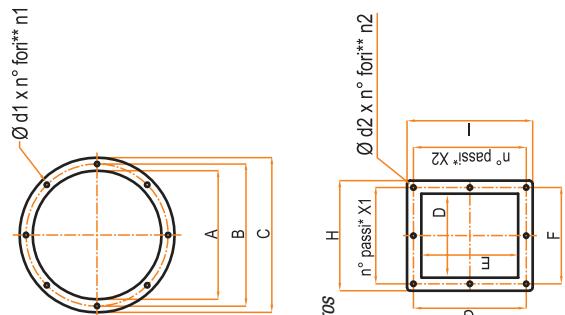
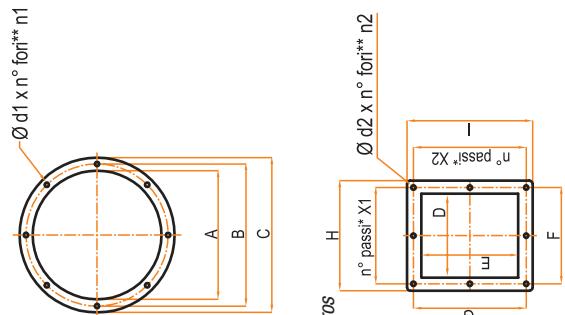
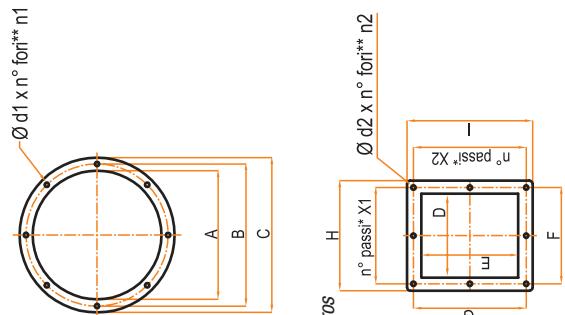
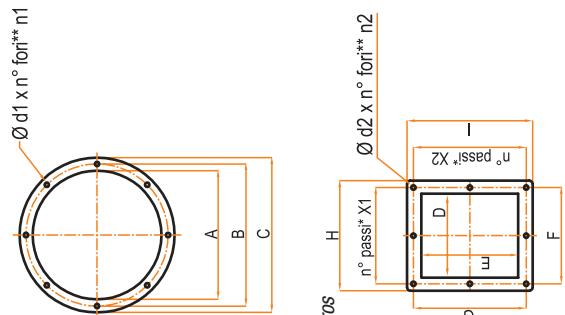
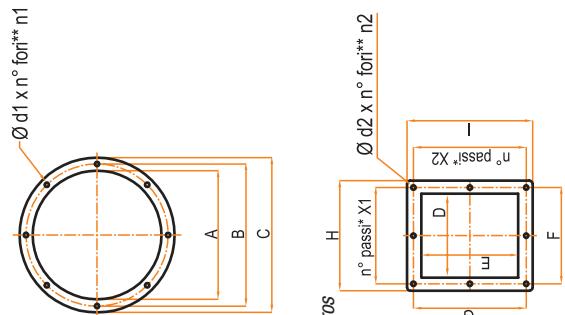
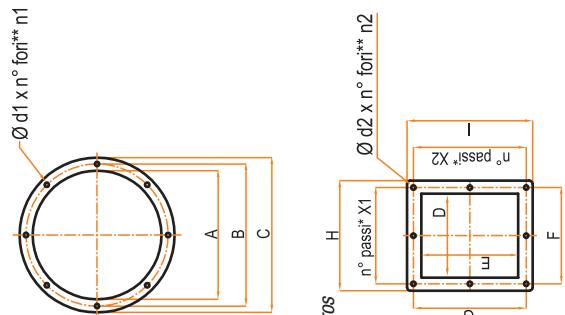
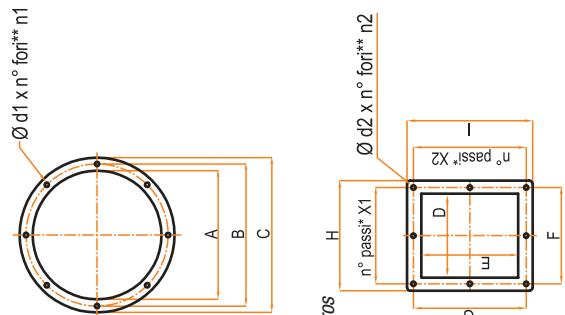
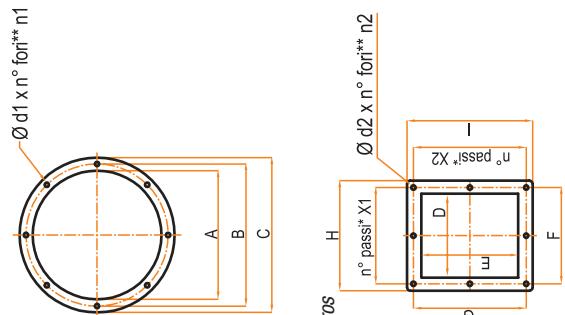
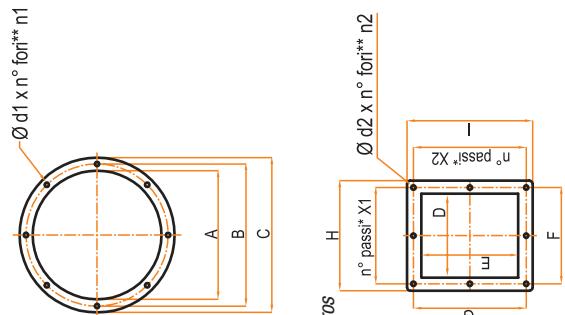
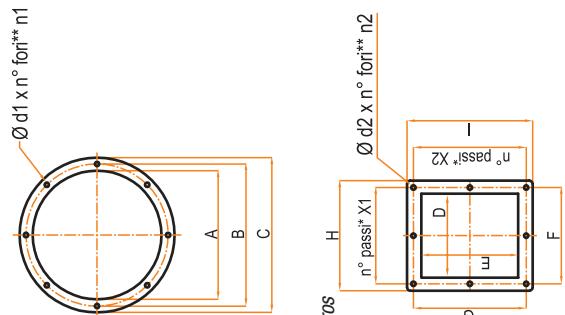
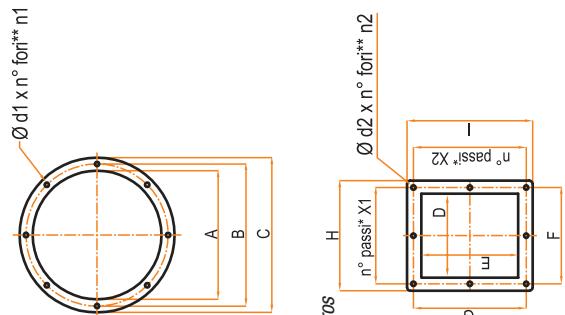
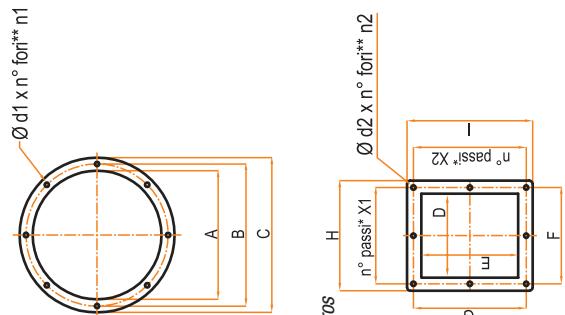
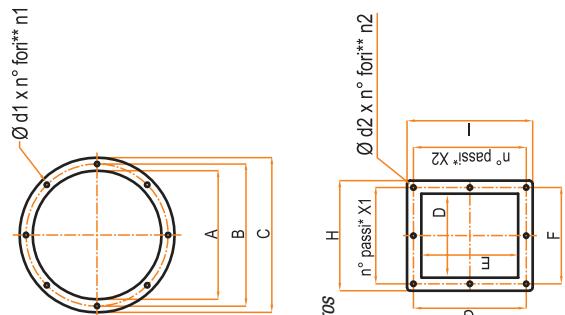
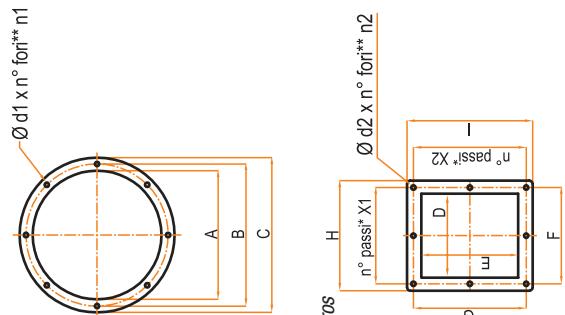
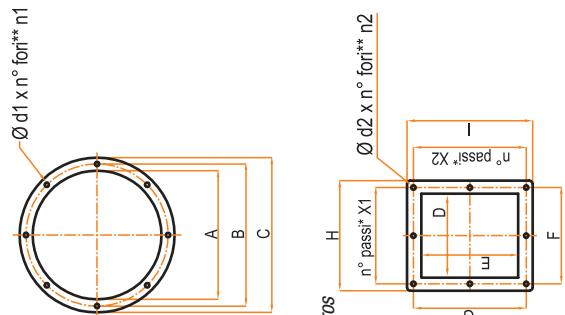
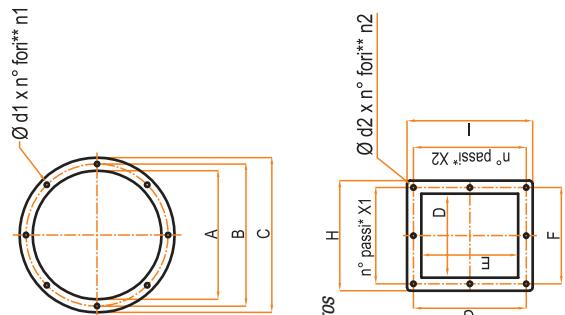
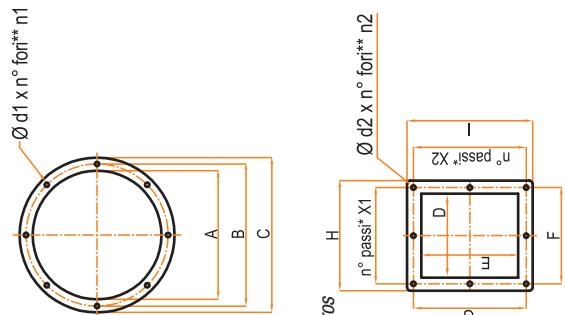
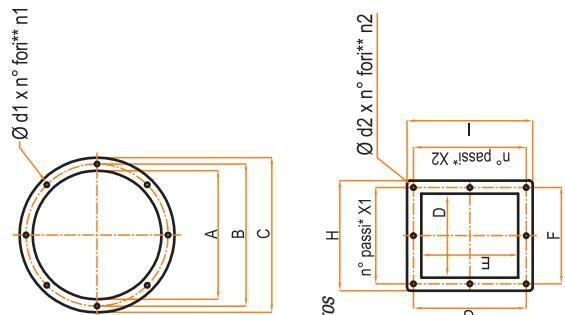
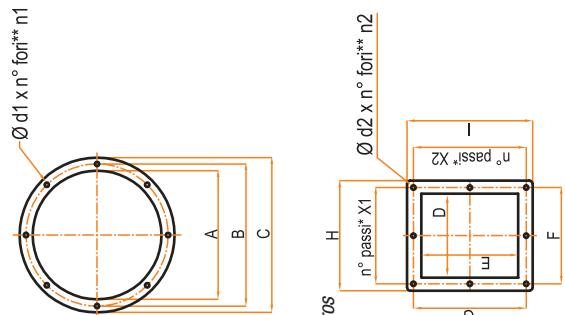
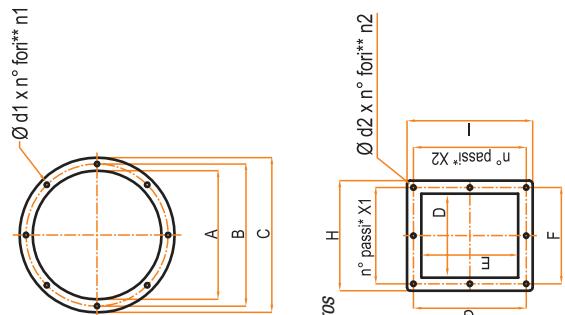
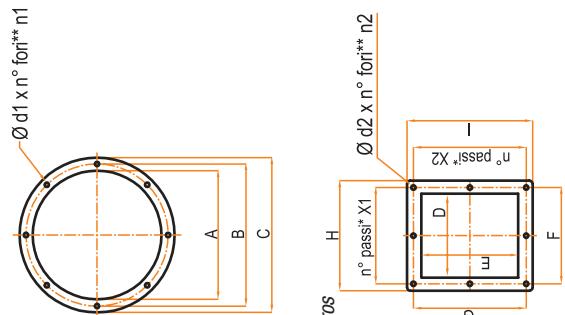
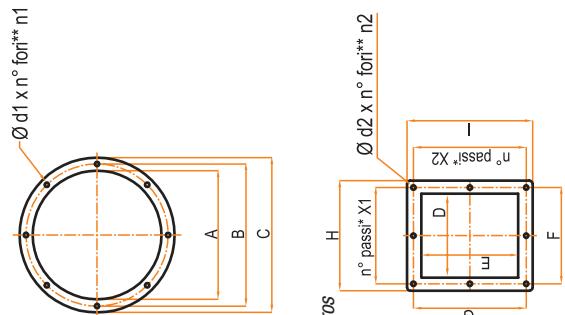
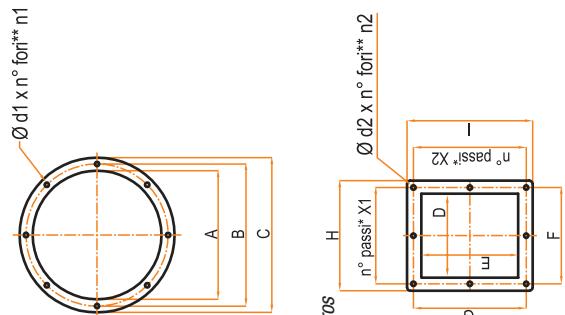
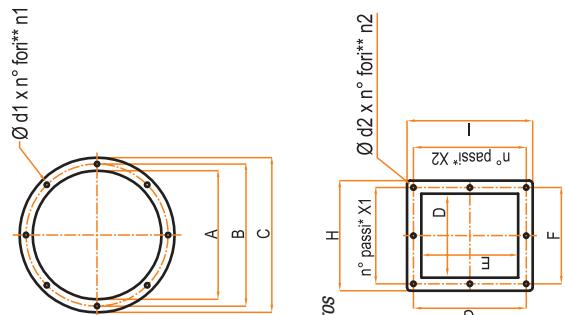
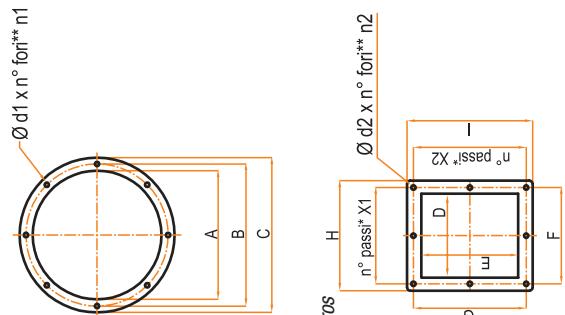
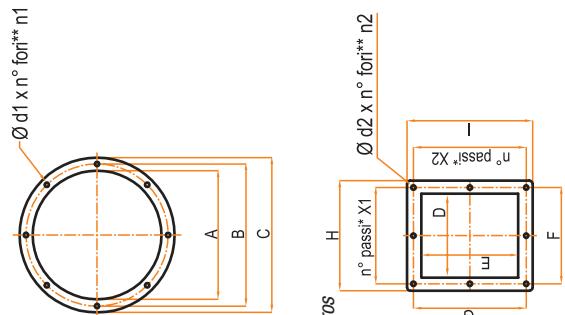
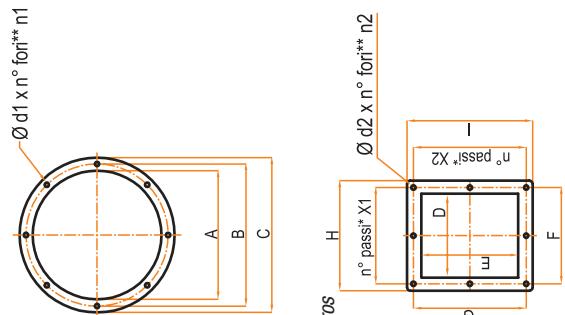
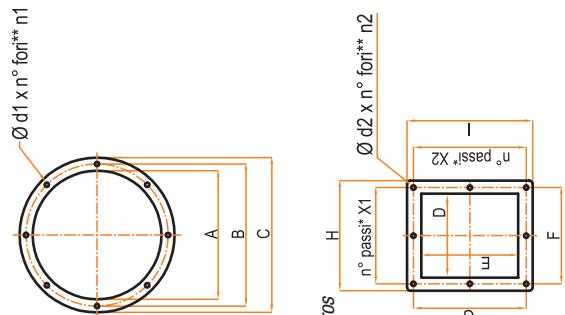
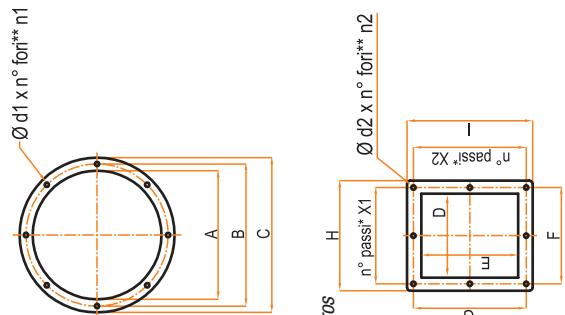
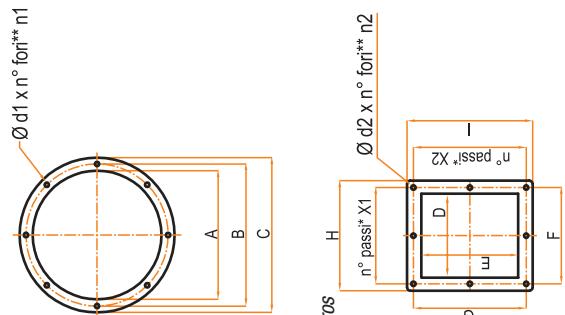
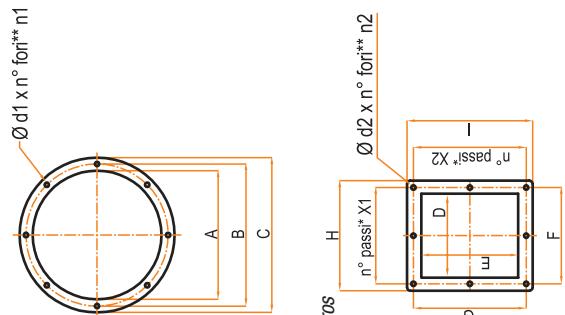
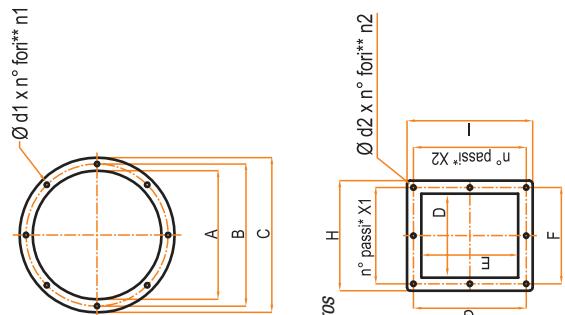
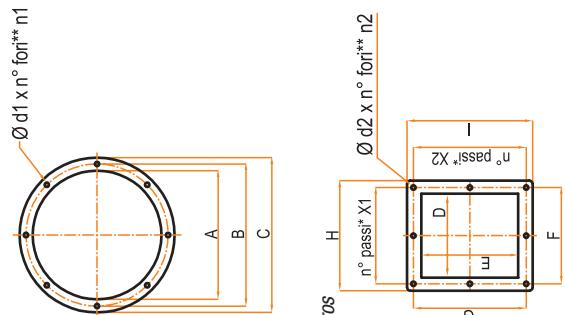
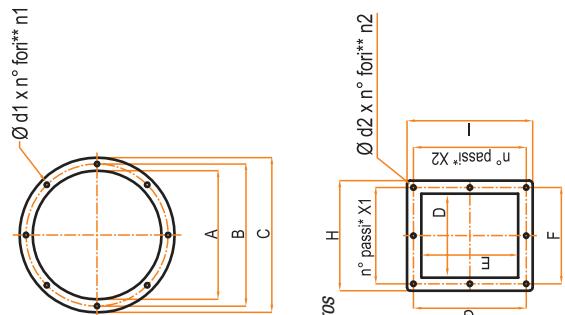
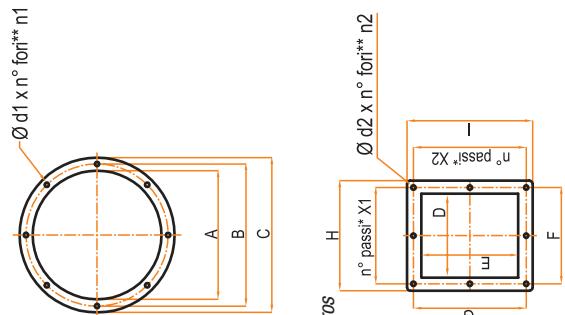
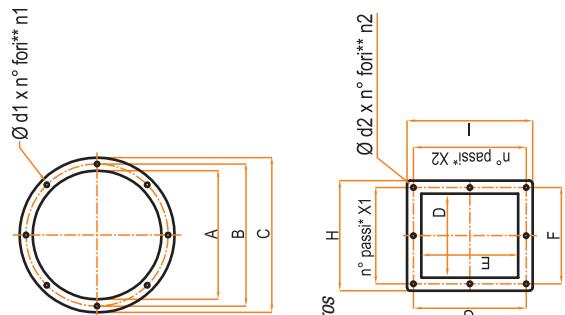
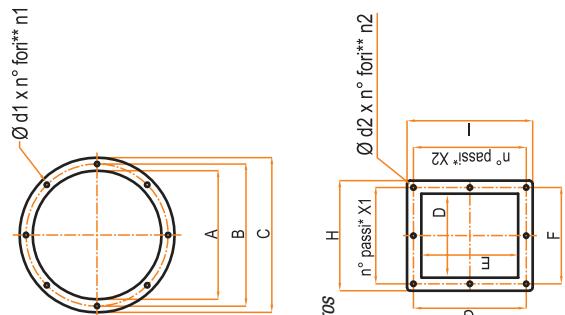
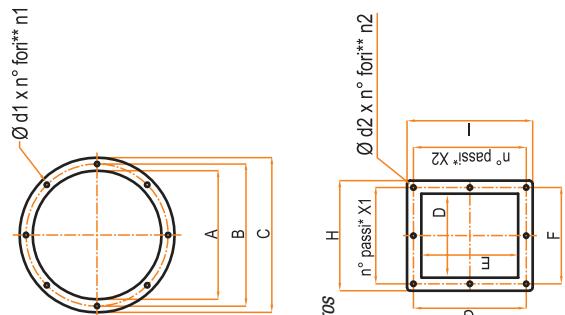
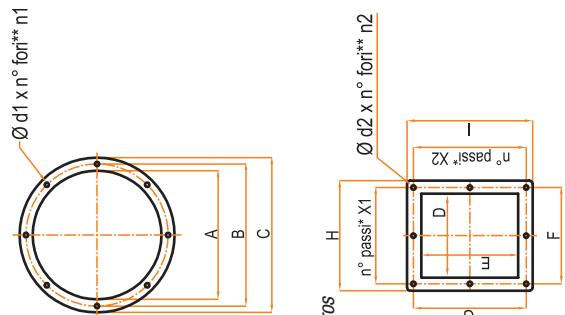
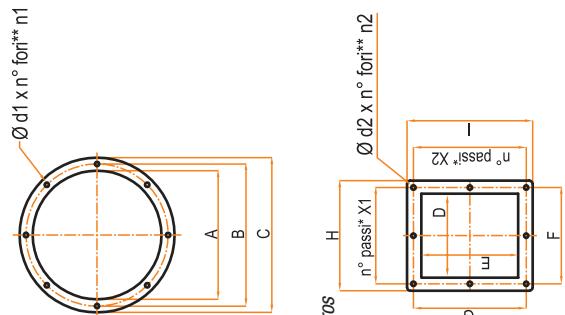
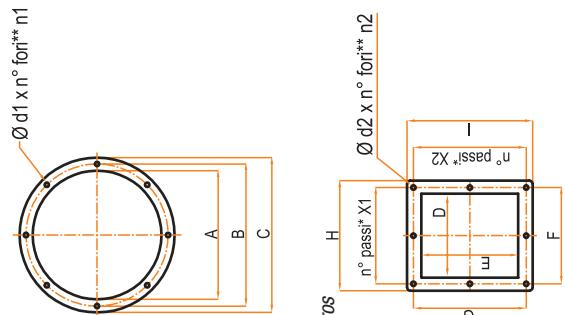
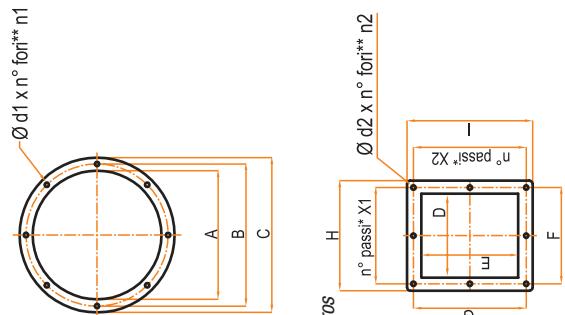
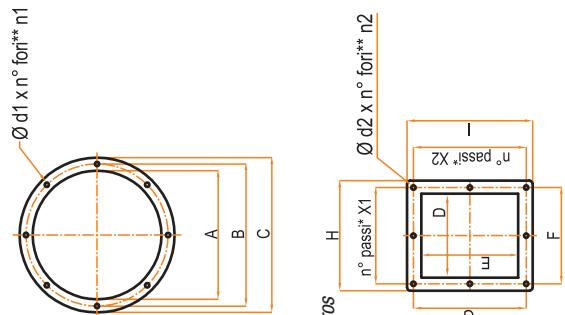
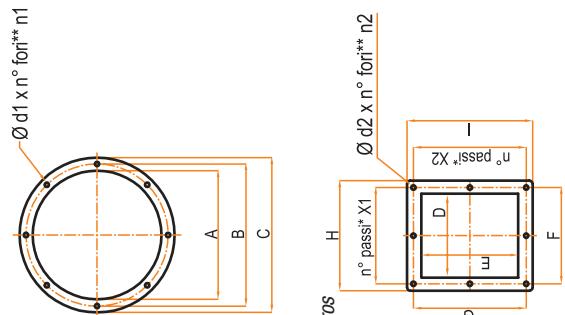
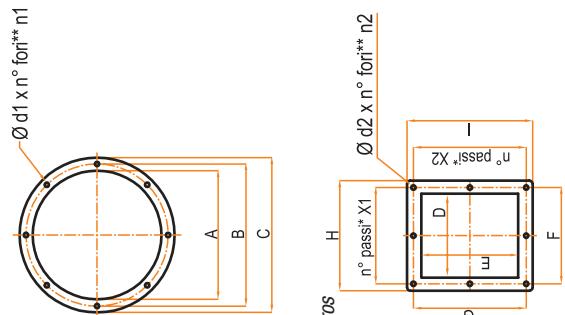
**Ventilador suministrado solamente con eje de transmisión (monobloque), sin motor**

> Dimensionale direttamente accoppiati <  
 > Direct drive dimensional > Dimensionnel directement couplés  
 > Direkt gekoppelte Umfänge haben > Dimensional acoplados directamente



\* Passi - Pitches - Pas - Schritte - Pasos

\*\*Fori - Bores - Fentes - Bohrungen - Agujeros



> Prestazioni direttamente accoppiati <  
 > Direct drive performance> Performances directement couplées  
 > Direkt gekoppelte Leistungen > Rendimientos acoplados directamente

Modello	Motore	kW ass.	kW inst.	n° giri dB(A)	Portata V = m <sup>3</sup> /h		Portata V = m <sup>3</sup> /s		Pressione totale Pt = kgf/m <sup>2</sup> - da Pa																																	
					90	120	145	180	220	255	290	325	360	400	470	550	615	690	760	830	950	1080	1190	1340	1520	1700	1900	2160	2420	2700	3060	3420	3820	4250	4720							
HL 30	71 A-2	0,28	0,37	2900	66,2	184	187	190	192	193	191	189	185	179	172	248	239	223	336	331	323																					
HL 35	80 A-2	0,66	0,75	2900	70,9																																					
HL 40	80 B-2	1,07	1,1	2900	75,5																																					
HL 45/1	90 S-2	1,4	1,5	2900	79,1																																					
HL 45/2	90 L-2	2,12	2,2	2900	79,1																																					
HL 50/1	90 L-2	2,04	2,2	2900	82,3																																					
HL 50/2	112 M-2	3,6	4	2900	82,3																																					
HL 55/1	100 L-2	2,9	3	2900	85,3																																					
HL 55/2	112 M-2	3,8	4	2900	85,3																																					
HL 55/3	132 SA-2	5,3	5,5	2900	85,3																																					
HL 60/1	132 SA-2	5,4	5,5	2900	88,1																																					
HL 60/2	132 SB-2	7,35	7,5	2900	88,1																																					
HL 60/3	160 M-2	9,6	11	2900	88,1																																					
HL 65/2	160 M-2	10,75	11	2900	90,8																																					
HL 65/3	160 MX-2	13,9	15	2900	90,8																																					
HL 70/1	160 M-2	10,6	11	2900	93,2																																					
HL 70/2	160 MX-2	14,7	15	2900	93,2																																					
HL 70/3	160 L-2	18,4	18,5	2900	93,2																																					

(\*) Pressione sonora L<sub>p</sub> = dB(A) - media di valori rilevati a 1,5 m. dal ventilatore con bocca aspirante libera e riferita al punto di maggior rendimento. Tolleranza sulla rumorosità + 3 dB(A)

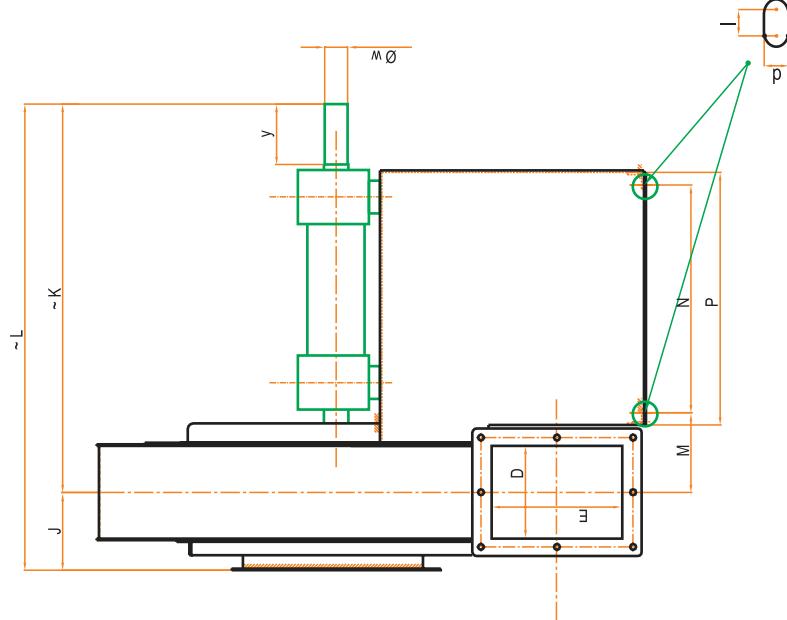
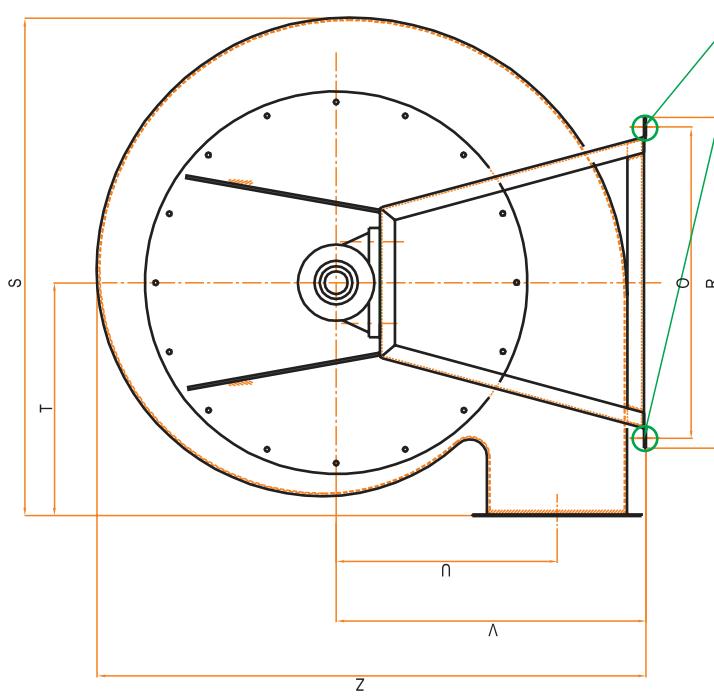
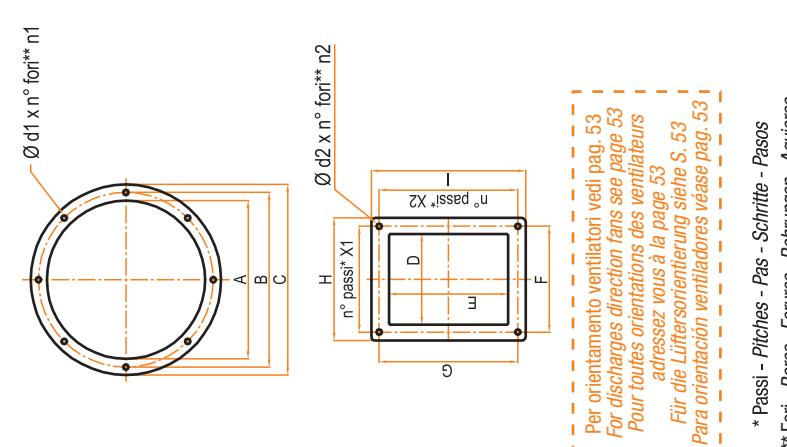
(\*\*) Sound pressure L<sub>p</sub> = dB(A) - Mean of values plotted at 1,5 m. from fan with canalized outlet and free inlet and refers at the point of major efficiency. Noise level tolerance + 3 dB(A)

(\*\*): Pression sonore L<sub>p</sub> = dB(A) - moyenne de valeurs relevées à 1,5 m. du ventilateur avec goutte de compression canalisée et goulet aspirant libre et rapporté au point d'efficacité le plus élevé. Tolérance sur niveau sonore + 3 dB(A)

(\*\*\*): Schalldruck L<sub>p</sub> = dB(A) - durchschnittliche Werte entnommen auf eine Entfernung von 1,5 m vom Lüfter mit dem drückenden kanalisierten Mundstück und dem Ansaugensmundstück frei und zu dem Punkt höchster Leistung gewandt. Toleranz schallpegel +3 dB(A)

(\*\*\*\*): Presión sonora L<sub>p</sub> = dB(A) - media de valores registrados a 1,5 m del ventilador con entrada impulsante canalizada y entrada aspirante libre y referida al punto de mayor rendimiento. Tolerancia de ruido + 3 dB(A)

> Dimensionale trasmissione a rinvio <  
 > Belt drive dimensional > Dimensionnel connexion de renvoi  
 > Sendemfänge durch Rücksendungsübertragung > Dimensional transmisión de reenvío



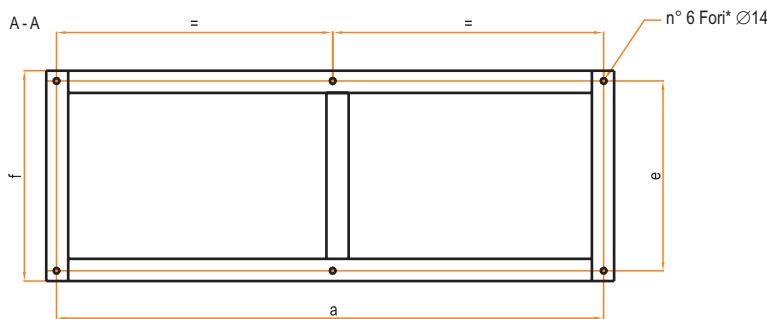
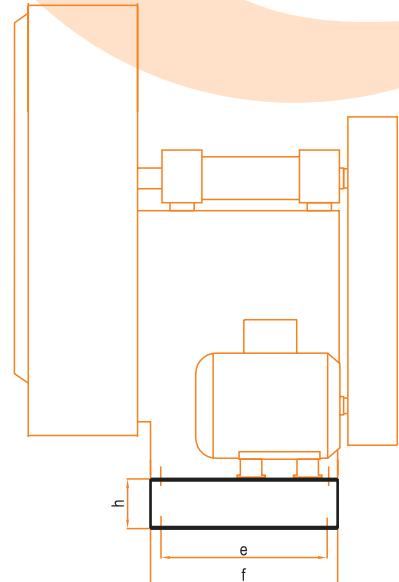
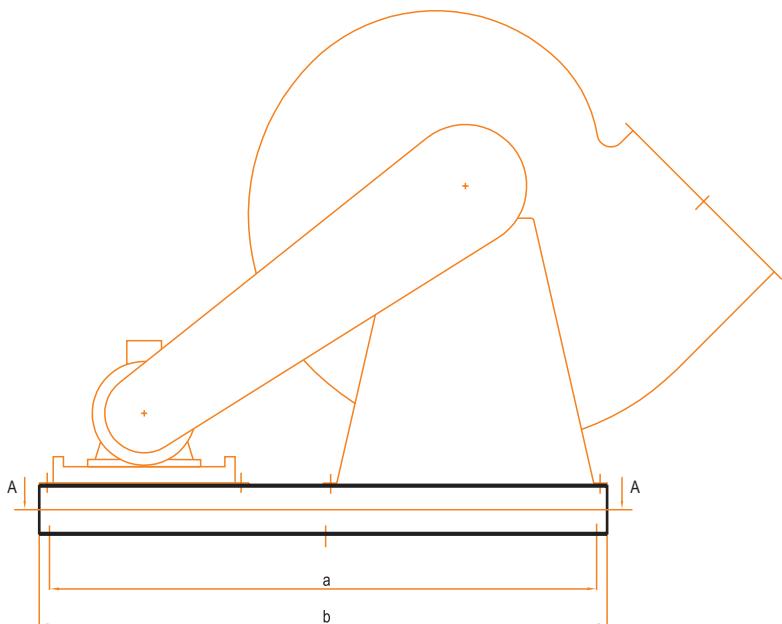
Belt drive dimensional HL-t (Arrangement 1) - Dimensions série HL-t (connexion de renvoi exéc. 1)													
Dimensioni serie HL-t (trasmissione a rinvio esec. 1)													
Belts dimension HL-t (Arrangement 1) - Dimensions série HL-t (connexion de renvoi exéc. 1) - Umfangs HL-t Serie (Rücksendungsübertragung Bsp. 1) - Dimensiones serie HL-t (transmisión de reenvío ejec. 1)													
Modello	A	B	C	d1x1	D	E	F	G	H	I	d2x12	X1	X2
HL 40	120	140	165	11x4	73	73	108	138	138	94	241	340	14x16
HL 45	134	155	180	11x4	82	82	117	117	147	98	427	525	14x16
HL 50	149	175	200	11x4	92	92	126	156	156	109	244	555	14x16
HL 55	163	190	215	11x4	101	101	136	136	136	107	452	564	14x16
HL 60	178	205	228	11x4	110	110	145	145	175	112	571	683	14x16
HL 65	193	220	245	11x4	119	119	154	184	184	116	576	692	14x16
HL 70	208	235	265	11x4	128	128	164	194	194	121	606	882	14x16

Tutte le quote sono espresse in mm. - Misura non impegnativa - MISTRAL ASPIRATORI-VENTILATORI s.r.l. si riserva il diritto di modificare le quote senza preaviso - All the dimensions are showed in mm. - Non-committal measure - MISTRAL ASPIRATORI-VENTILATORI s.r.l. reserves the right to modify the dimensions without notice - toutes les parties sont exprimées en mm. - Mesures pas contraignantes - MISTRAL ASPIRATEURS-VENTILATEURS s.r.l. se réserve la faculté de modifier les parties sans préavis - Pour toutes orientations des ventilateurs adressez vous à la page 53 - Pour toutes orientations des ventilateurs adressez vous à la page 53 - Für die Lüftersonderierung siehe S. 53 - Para orientación ventiladores véase pag. 53

\* Passi - Pitches - Pas - Schritte - Pasos  
 \*\* Fori - Bores - Forures - Bohrungen - Agujeros

# > Dimensionale fondazione <

## > Foundation dimensional > Dimensionnel fondations > Gründungsumfänge habend > Dimensional fundaciones

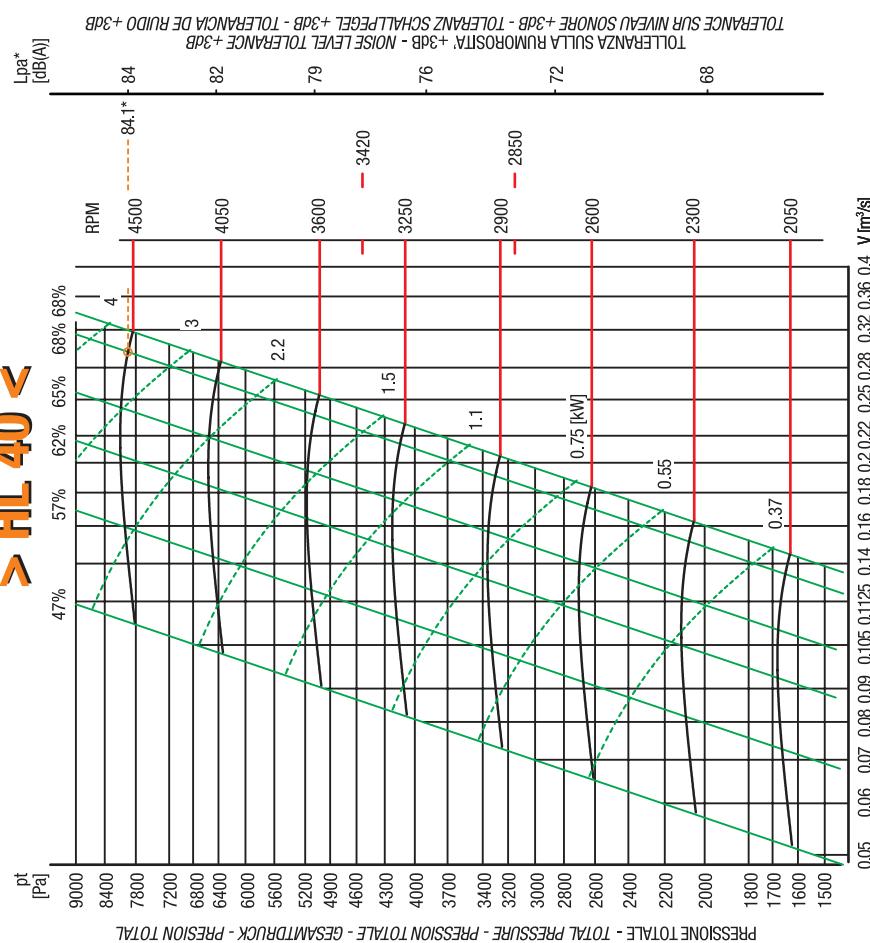


\* Fori - Bores - Forures - Bohrungen - Agujeros

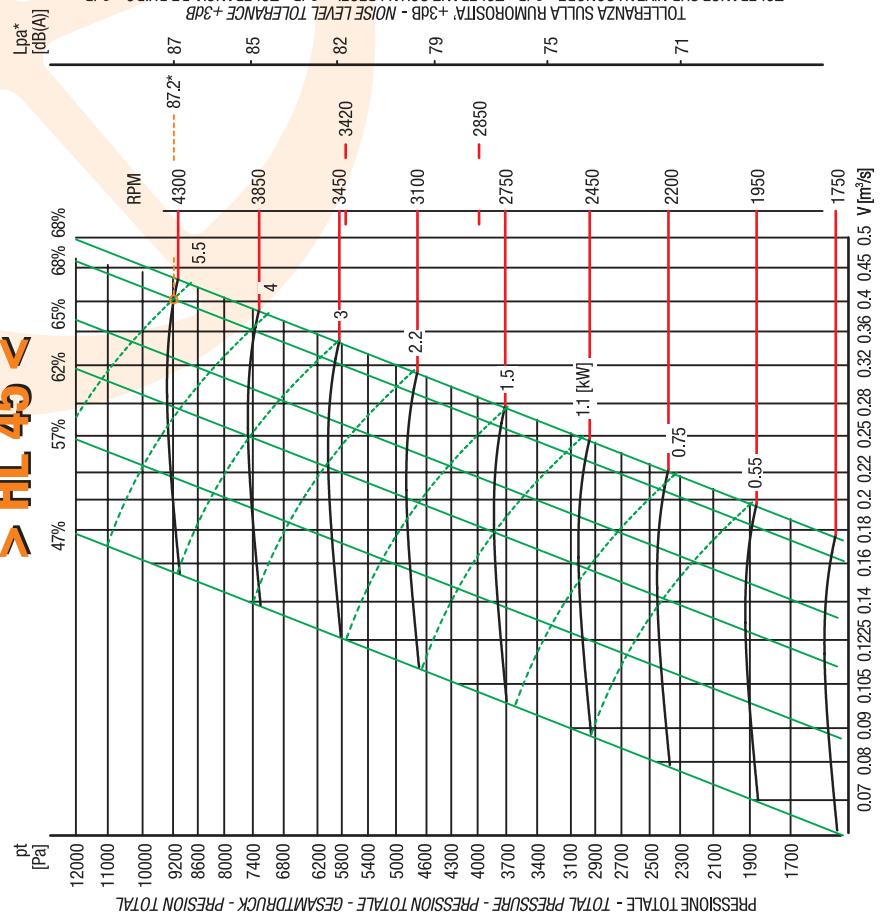
Dimensioni basamenti di fondazione (es. 12)						
Modello	<b>h</b>	<b>a</b>	<b>b</b>	<b>e</b>	<b>f</b>	<b>kg</b>
HL 40	80	843	883	249	289	15
HL 45	80	843	883	249	289	15
HL 50	100	1000	1040	252	292	20
HL 55	100	1000	1040	252	292	20
HL 60	100	1080	1120	340	380	23
HL 65	100	1160	1200	340	380	27
HL 70	120	1320	1370	413	463	32

Tutte le quote sono espresse in mm. - Misure non impegnative - MISTRAL ASPIRATORI-VENTILATORI s.r.l. si riserva il diritto di modificare le quote senza preavviso - All the dimensions are showed in mm. - Non-committal measure - MISTRAL ASPIRATORI-VENTILATORI s.r.l. reserves the right to modify the dimensions without notice - Toutes les parties sont exprimées en mm. - Mesures pas contraignantes - MISTRAL ASPIRATEURS-VENTILATEURS s.r.l. se réserve la faculté de modifier les parties sans préavis - Die Quoten sind in mm. ausgedrückt - nicht verbindliche Maße - MISTRAL ASPIRTOREN - LÜFTER GmbH vorbehält sich das Recht, die Quote fristlos zu ändern - Todas las cuotas se expresan en mm - Medidas no vinculantes - MISTRAL ASPIRATORI-VENTILATORI s.r.l. se reserva el derecho de modificar las cuotas sin previo aviso.

## > HL 40 <



## > HL 45 <



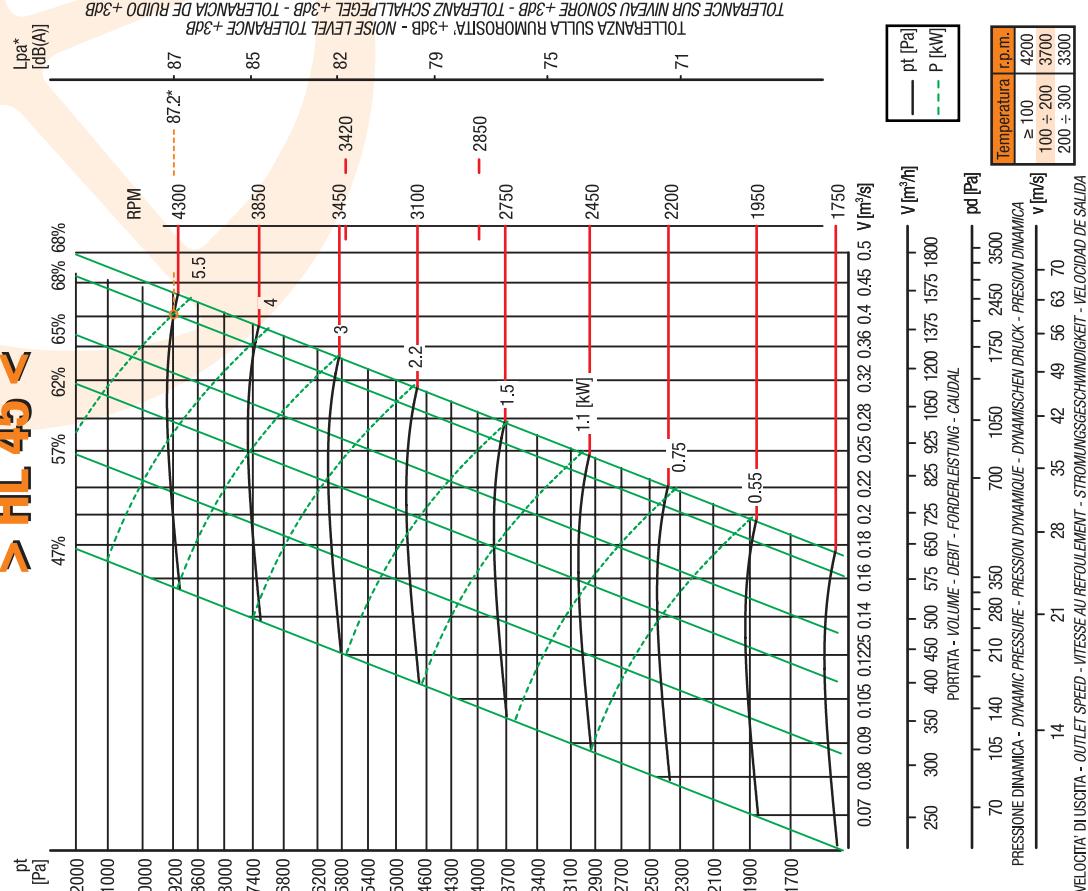
Livello potenza sonora - Sound power level - Niveau de puissance sonore - Schallleistungsspegl - Nivel potencia Sonora [dB] *									
RPM	Banda d'ottava - Octave band - Bande d'octave - Oktavband - Banda de octava [Hz]								
	63	125	250	500	1000	2000	4000	500	1000
2700	85	87	88	83	82	77	69	61	72
3150	88.4	90.4	88.4	89.4	85.4	80.4	72.4	64.4	76.2
3600	91.4	92.4	91.4	92.4	93.9	95.9	97.4	91.1	93.1
4050	94	96	94	95	91	83.4	83.6	94.9	93.9
4500	96.3	98.3	96.3	97.3	93.3	88.3	80.3	78	81.7

Livello potenza sonora - Sound power level - Niveau de puissance sonore - Schallleistungsspegl - Nivel potencia Sonora [dB] *									
RPM	Banda d'ottava - Octave band - Bande d'octave - Oktavband - Banda de octava [Hz]								
	63	125	250	500	1000	2000	4000	500	1000
2550	87.9	89.9	90.9	85.9	84.9	79.9	71.9	63.9	74.9
2950	91.1	93.1	91.1	92.1	88.1	83.1	75.1	67.1	78.8
3350	93.9	95.9	93.9	93.9	94.9	90.9	85.9	77.9	69.9
3750	96.4	98.4	96.4	97.4	93.4	88.4	80.4	72.4	84.2
4300	99.5	101.5	99.5	100.5	96.5	91.5	83.5	75.5	87.2

[\*] Al massimo rendimento - At max efficiency - A la maxim efficacité - zur höchsten Leistung - Al Máximo rendimiento - Distanza - Distance - Abstand - Distanz - 1,5 m - Temperatura - Température - Temperatur - Temperature - 15 °C - Densità - Densité - Densidad - Densidad - Bezugsdichte - Densidad - 1.225 kg/m³ - Tolleranza sulla portata - Capacity tolerance - Tolerancia caudal : ±5% PD² - WD² - GD² - PD² : 0.456 kgm²

## > HL 45 <



Livello potenza sonora - Sound power level - Niveau de puissance sonore - Schallleistungsspegl - Nivel potencia Sonora [dB] *									
RPM	Banda d'ottava - Octave band - Bande d'octave - Oktavband - Banda de octava [Hz]								
	63	125	250	500	1000	2000	4000	500	1000
2550	87.9	89.9	90.9	85.9	84.9	79.9	71.9	63.9	74.9
2950	91.1	93.1	91.1	92.1	88.1	83.1	75.1	67.1	78.8
3350	93.9	95.9	93.9	93.9	94.9	90.9	85.9	77.9	69.9
3750	96.4	98.4	96.4	97.4	93.4	88.4	80.4	72.4	84.2
4300	99.5	101.5	99.5	101.5	96.5	88.3	80.3	72.3	84.1

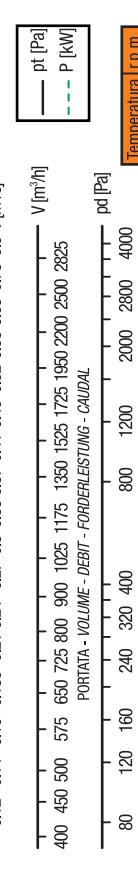
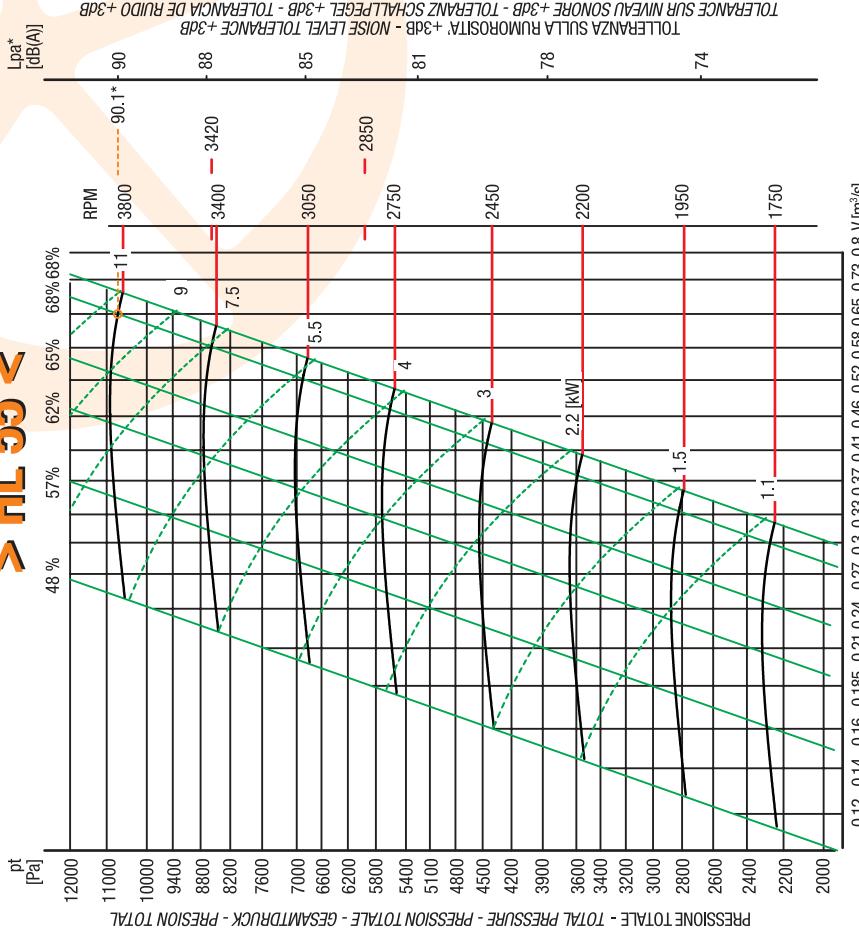
  

Livello potenza sonora - Sound power level - Niveau de puissance sonore - Schallleistungsspegl - Nivel potencia Sonora [dB] *									
RPM	Banda d'ottava - Octave band - Bande d'octave - Oktavband - Banda de octava [Hz]								
	63	125	250	500	1000	2000	4000	500	1000
2950	91.1	93.1	91.1	92.1	88.1	83.1	75.1	67.1	78.8
3350	93.9	95.9	93.9	93.9	94.9	90.9	85.9	77.9	69.9
3750	96.4	98.4	96.4	97.4	93.4	88.4	80.4	72.4	84.2
4300	99.5	101.5	99.5	101.5	96.5	88.3	80.3	72.3	84.1

[\*] Al massimo rendimento - At max efficiency - A la maxim efficacité - zur höchsten Leistung - Al Máximo rendimiento - Distanza - Distance - Abstand - Distanz - 1,5 m - Temperatura - Température - Temperatur - Temperature - 15 °C - Densità - Densité - Densidad - Densidad - Bezugsdichte - Densidad - 1.225 kg/m³ - Tolleranza sulla portata - Capacity tolerance - Tolerancia caudal : ±5% PD² - WD² - GD² - PD² : 0.456 kgm²

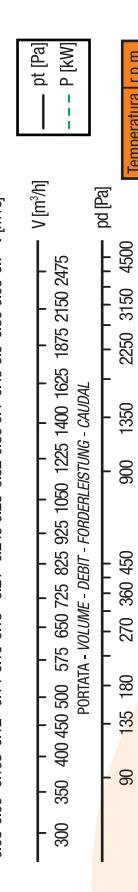
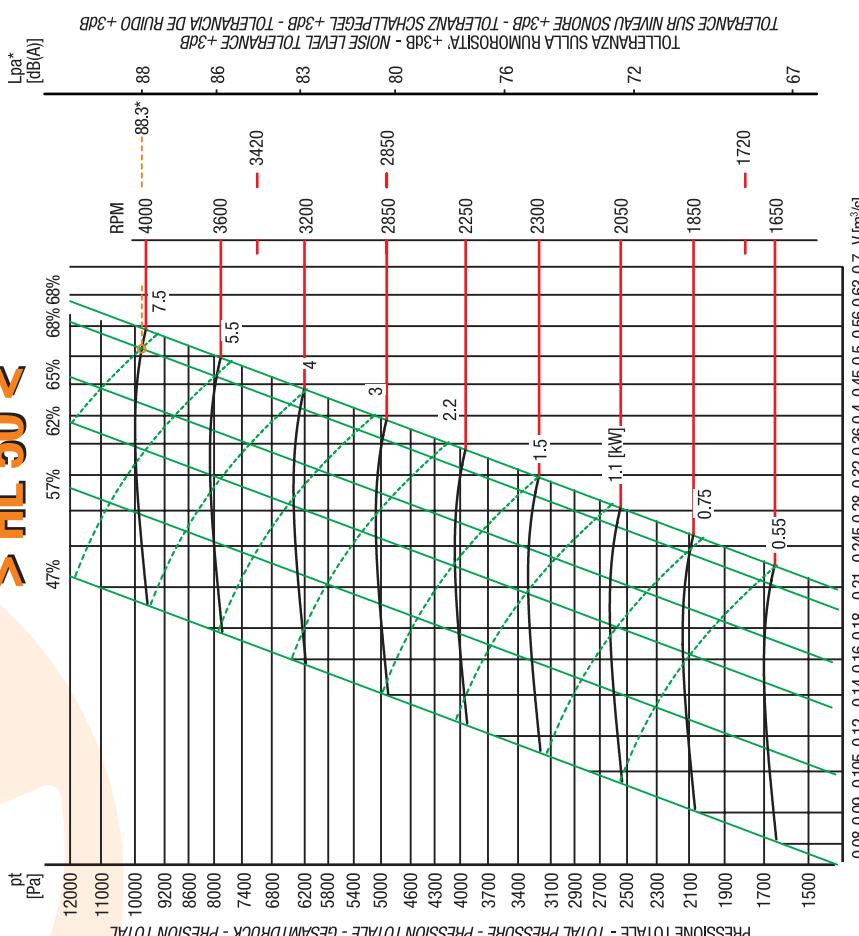
Livello potenza sonora - Sound power level - Niveau de puissance sonore - Schallleistungsspegl - Nivel potencia Sonora [dB] *									
RPM	Banda d'ottava - Octave band - Bande d'octave - Oktavband - Banda de octava [Hz]								

## HL 55 <



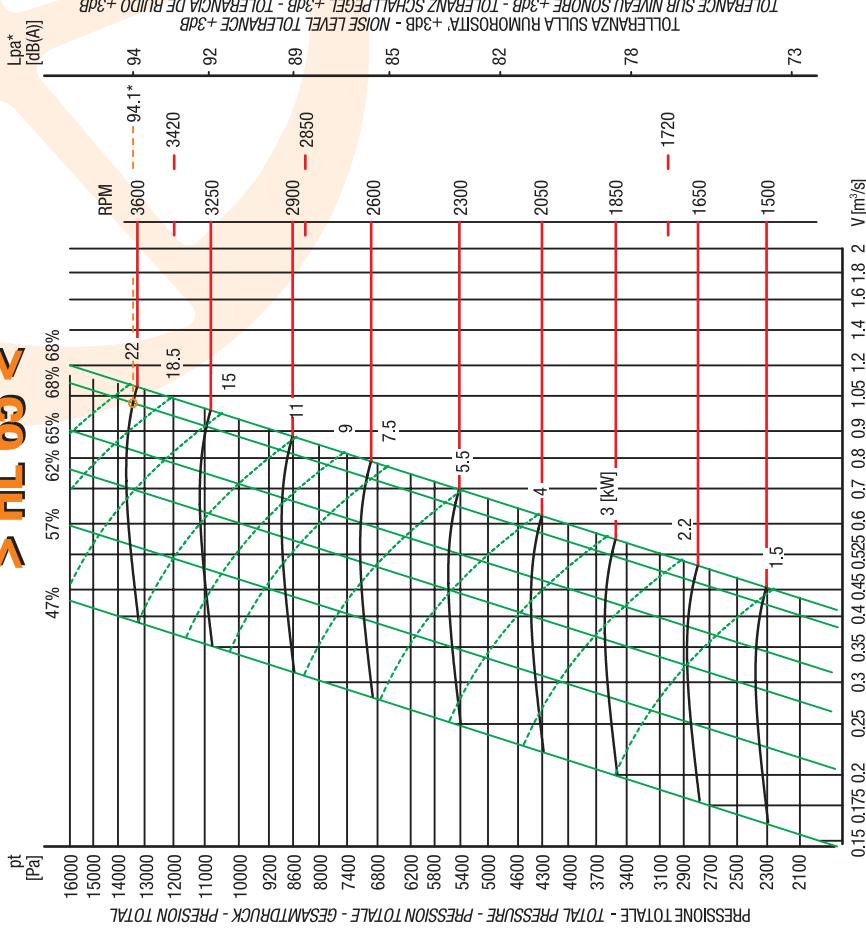
[r] Al massimo rendimento - At max efficiency - A la maxima efficacité - zur höchsten Leistung - Al Máximo rendimiento - Distancia - Distance - Abstand - Distanza : 1,5 m - temperatura - temperature - température : 15 °C - Densità - Density - Densité - Bezugsdichte - Densidad : 1,225 kg/m³ - tolleranza sulla portata - Capacity tolerance - Tolérance sur le débit - Fördertoleranz - Tolerancia caudal : ±5% PD² - WD² - GD² - RD² : 1,32 kg/m²

## HL 50 <



[r] Al massimo rendimento - At max efficiency - A la maxima efficacité - zur höchsten Leistung - Al Máximo rendimiento - Distancia - Distance - Abstand - Distanza : 1,5 m - temperatura - temperature - température : 15 °C - Densità - Density - Densité - Bezugsdichte - Densidad : 1,225 kg/m³ - tolleranza sulla portata - Capacity tolerance - Tolérance sur le débit - Fördertoleranz - Tolerancia caudal : ±5% PD² - WD² - GD² - RD² : 1,32 kg/m²

## > HL 65 <

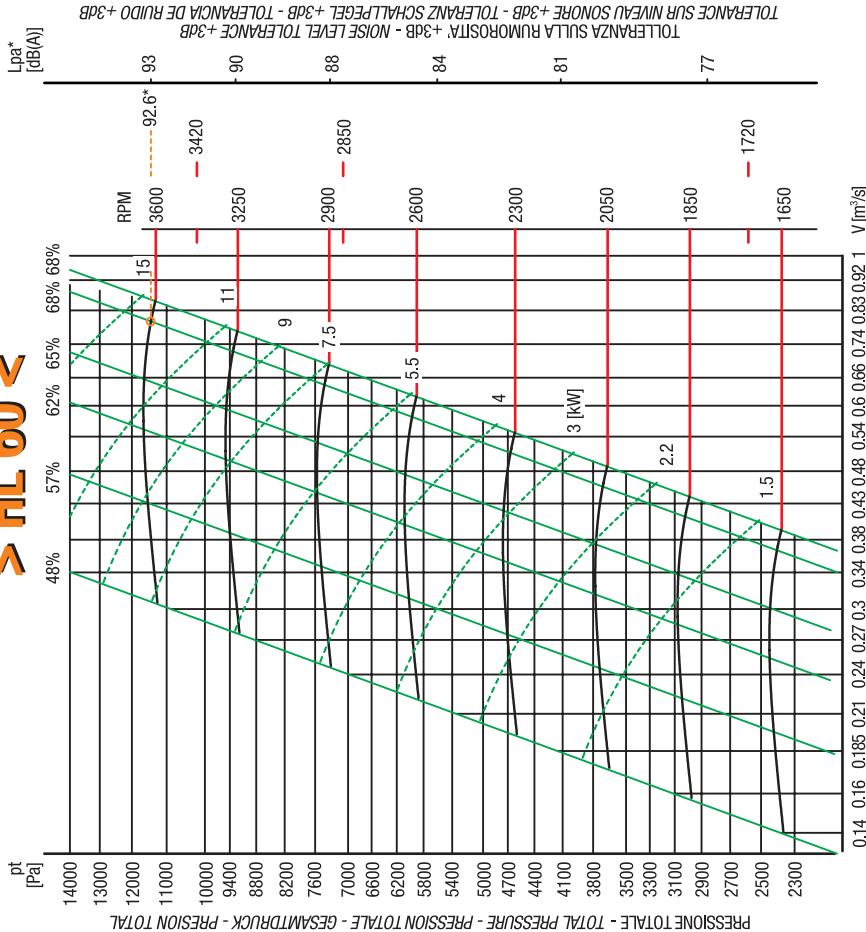


TOLERANCE SUR NIVEAU SONORE +3dB - TOLERANCE SCHALLDRUCK +3dB - NOISE LEVEL TOLERANCE +3dB

TOLERANZA SULLA RUMOROSITA' +3dB - PRESSIONE SONORA +3dB - NOISE LEVEL TOLERANCE +3dB

PRESIONE TOTALE - TOTAL PRESSURE - PRESSION TOTALLE - GESENTRUCK - PRESION TOTAL  
PRESIONE TOTALE - TOTAL PRESSURE - PRESSION TOTALLE - GESENTRUCK - PRESION TOTAL

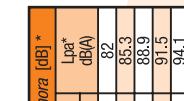
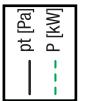
## > HL 60 <



TOLERANCE SUR NIVEAU SONORE +3dB - TOLERANCE SCHALLDRUCK +3dB - NOISE LEVEL TOLERANCE +3dB

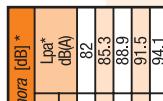
TOLERANZA SULLA RUMOROSITA' +3dB - PRESSIONE SONORA +3dB - NOISE LEVEL TOLERANCE +3dB

PRESIONE TOTALE - TOTAL PRESSURE - PRESSION TOTALLE - GESENTRUCK - PRESION TOTAL  
PRESIONE TOTALE - TOTAL PRESSURE - PRESSION TOTALLE - GESENTRUCK - PRESION TOTAL



pt [Pa]

V [m³/h]



pt [Pa]

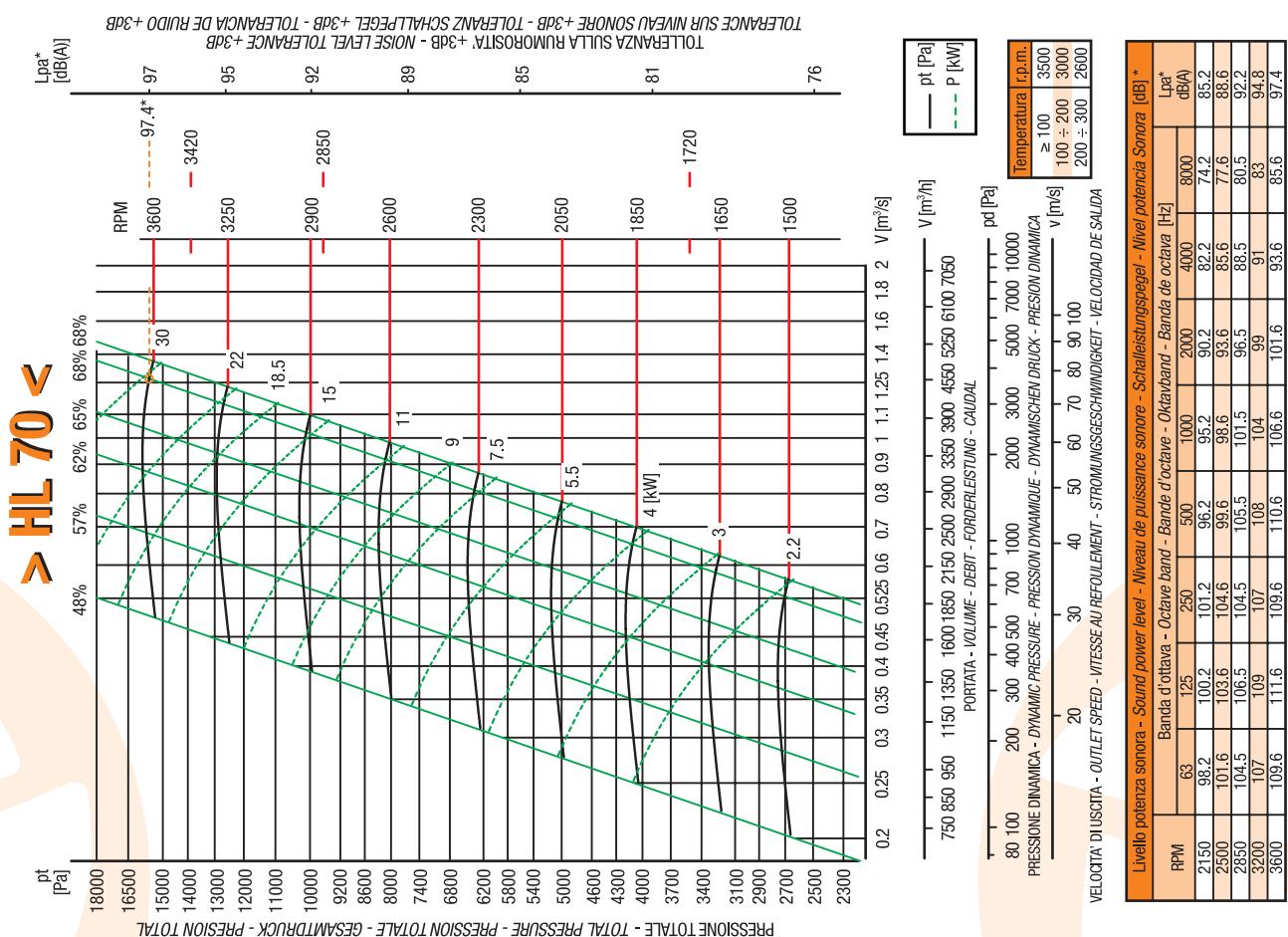
P [kW]

pt [Pa]

</

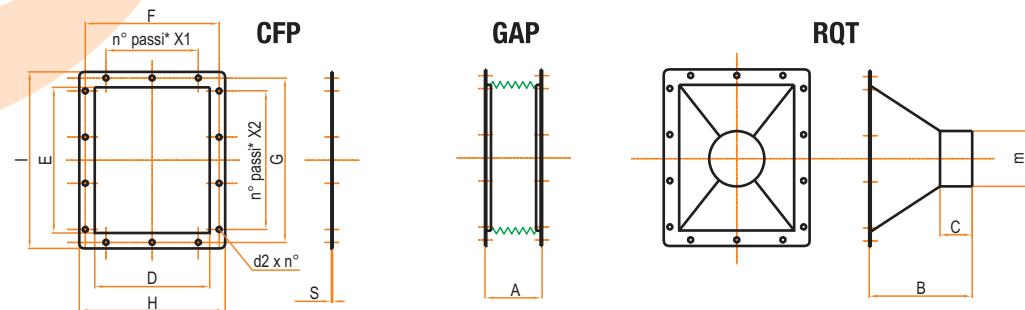
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Note - Notes

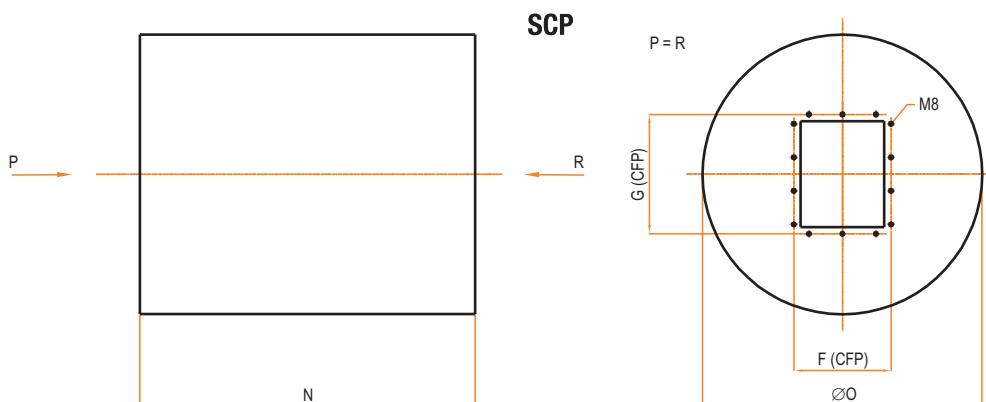


[r] Al massimo rendimento - At max. efficiency - A la maxim efficacité - Al Máximo rendimiento - Al Máximo rendimiento - Distanza - Distance - Distancia -  
*Absstand* - Distancia - 1,5 m - Temperatura - Température - Temperatura - 15 °C - Densità - Density - Densité -  
*Bezugsdistanz* - Densidad - 1,25 kg/m<sup>3</sup> - Tolleranza sulla portata - Capacity tolerance - Tolérance sur le débit - Toleranzcaudal - : 5%  
 PD<sup>2</sup> - WD<sup>2</sup> - GD<sup>2</sup> - PD : 5,32 kg/m<sup>3</sup>

**> Accessori lato mandata <**  
**> Outlet accessories > Accessoires coté refoulement**  
**> Zubehöre Austrittsseite > Accesorios lado de presión**



\* Passi - Pitches - Pas - Schritte - Pasos



**CFP** > Contro flangia lato premente - *Outlet counterflange - Contre bride de compression - Drückender Gegenflansch - Contrabrida impelente*

**GAP** > Giunto antivibrante - *Outlet anti-vibration coupling - Joint antivibrant - Schwingungsdämpfende Kupplung - Junta antivibrante*

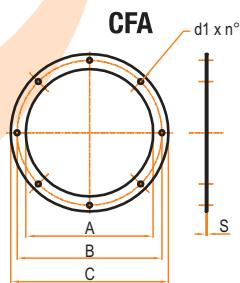
**RQT** > Raccordo quadrotondo- *Square-round joint on outlet side - Embout carré rond - Viereckigrundes Rohrfitting - Unión para tubo cuadro o redondo*

**SCP** > Silenziatore lato premente - *Outlet silencer - Silencieux de compression - Drückender Schalldämpfer - Silenciador impelente*

Modello	CFP										GAP	RQT				SCP	
	D	E	F	G	H	I	d2xn°	X1	X2	s		A	B	c	m	N	o
HL 30	55	55	84	84	109	109	9x4	1x84	1x84	3	140	130	80	48	180	228	
HL 35	64	64	93	93	118	118	11x4	1x93	1x93	3	140	140	80	58	200	243	
HL 40	73	73	108	108	138	138	11x4	1x108	1x108	3	140	150	80	68	240	258	
HL 45	82	82	117	117	147	147	11x4	1x117	1x117	3	140	155	80	78	260	271	
HL 50	92	92	126	126	156	156	11x4	1x126	1x126	3	140	165	80	88	300	286	
HL 55	101	101	136	136	166	166	11x4	1x136	1x136	3	140	175	80	98	320	300	
HL 60	110	110	145	145	175	175	11x4	1x145	1x145	3	140	185	80	108	350	315	
HL 65	119	119	154	154	184	184	11x4	1x154	1x154	3	140	200	80	108	380	330	
HL 70	128	128	164	164	194	194	11x4	1x164	1x164	3	140	210	80	118	400	345	

Tutte le quote sono espresse in mm. - Misure non impegnative - MISTRAL ASPIRATORI-VENTILATORI s.r.l. si riserva il diritto di modificare le quote senza preavviso - All the dimensions are showed in mm. - Non-committal measure - MISTRAL ASPIRATORI-VENTILATORI s.r.l. reserves the right to modify the dimensions without notice - Toutes les parties sont exprimées en mm. - Mesures pas contraignantes - MISTRAL ASPIRATEURS-VENTILATEURS s.r.l. se réserve la faculté de modifier les parties sans préavis - Die Quoten sind in mm. ausgedrückt - nicht verbindliche Maße - MISTRAL ASPIRTOREN - LÜFTER GmbH vorbehält sich das Recht, die Quote fristlos zu ändern - Todas las cuotas se expresan en mm - Medidas no vinculantes - MISTRAL ASPIRATORI-VENTILATORI s.r.l. se reserva el derecho de modificar las cuotas sin previo aviso.

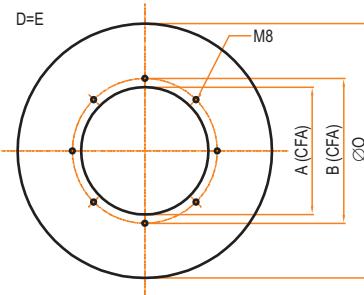
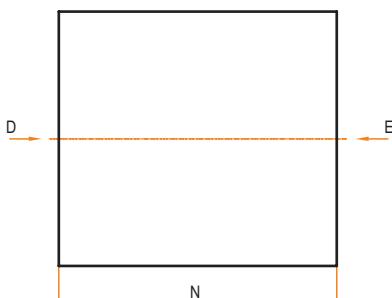
> Accessori lato aspirazione <  
 > Inlet accessories > Accessoires côté aspiration  
 > Zubehör Eintrittsseite > Accesorios lado de aspiración



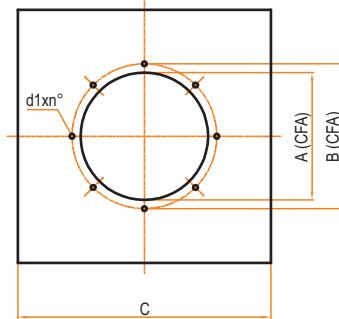
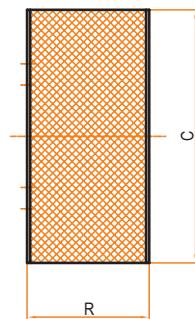
**GAA**



**SCA**



**FA**



**CFA** > Contro flangia lato aspirazione - *Inlet counterflange - Contre bride aspirante - Ansaugender Gegenflansch - Contrabrida aspirante*

**GAA** > Giunto antivibrante - *Inlet anti-vibration coupling - Joint antivibrant - Schwingungsdämpfende Kupplung - Junta antivibrante*

**SCA** > Silenziatore lato aspirazione - *Inlet silencer - Silencieux aspirant - Ansaugender Schalldämpfer - Silenciador aspirante*

**FA** > Filtro lato aspirazione - *Inlet filter - Filtre aspirant - Saugfilter - Filtro aspirante*

**RA** > Rete lato aspirazione - *Inlet protection grid - Filet aspirant - Aufsaugendes Schutznetz - Red aspirante*

\*Dimensioni reti di protezione riportate a pag. 54 - Protection grid dimensional showed on page 54 - Dimensions filets de protection indiquées à la page 54 - Die Umfänge der Schutznetze stehen auf Seite 54 - Dimensiones redes de protección indicadas en la página 54

Modello	CFA					GAA	SCA		FA		rete RA tipo*
	A	B	C	d1xn°	S		N	O	R	C	
HL 30	90	115	140	9x4	3	140	180	228	100	200	S1
HL 35	105	130	150	11x4	3	140	200	243	125	250	S2
HL 40	120	140	165	11x4	3	140	240	258	125	250	S2
HL 45	134	155	180	11x4	3	140	260	271	140	335	S3
HL 50	149	175	200	11x4	3	140	300	286	140	335	S4
HL 55	163	190	215	11x4	3	140	320	300	160	425	S5
HL 60	178	205	228	11x4	3	140	350	315	160	425	S6
HL 65	193	220	245	11x4	3	140	380	330	200	475	S7
HL 70	208	235	265	11x4	3	140	400	345	224	475	S8

Tutte le quote sono espresse in mm. - Misure non impegnative - MISTRAL ASPIRATORI-VENTILATORI s.r.l. si riserva il diritto di modificare le quote senza preavviso - All the dimensions are showed in mm. - Non-committal measure - MISTRAL ASPIRATORI-VENTILATORI s.r.l. reserves the right to modify the dimensions without notice - Toutes les parties sont exprimées en mm. - Mesures pas contraignantes - MISTRAL ASPIRATEURS-VENTILATEURS s.r.l. se réserve la faculté de modifier les parties sans préavis - Die Quoten sind in mm. ausgedrückt - nicht verbindliche Maße - MISTRAL ASPIRTOREN - LÜFTER GmbH vorbehält sich das Recht, die Quote fristlos zu ändern - Todas las cuotas se expresan en mm - Medidas no vinculantes - MISTRAL ASPIRATORI-VENTILATORI s.r.l. se reserva el derecho de modificar las cuotas sin previo aviso.

**Note - Notes**