

CLAMP SADDLES CATALOGUE



MASTER <

Box type	Dimensions
B	60x30x40 cm
C	40x30x30 cm

> CLAMP SADDLES - GENERAL CHARACTERISTICS

DESCRIPTION

Astore clamp saddles are the ideal solution for branching from existing pipe-lines for water and irrigation.

RANGE

Astore clamp saddles are supplied in the followings types:

- 503 single branch. Coupling with pipes from D 20 up to D 110 mm, threaded branches from 1/2" to 3".
Provided with 2 or 4 bolts according to the diameters.
- 505 single branch. Coupling with pipes from D 20 up to D 315 mm, threaded branches from 1/2" to 4".
Provided with 2, 4 or 6 bolts according to the diameters and metal reinforcing ring on the threaded branches.
- 508 double branch. Coupling with pipes from D 20 up to D 315 mm, threaded branches from 1/2" to 4".
Provided with 2, 4 or 6 bolts according to the diameters and metal reinforcing ring on the threaded branches.

MATERIALS

Saddle body in PP black co-polymer, nuts and bolts in zinc chromed steel, o-ring gasket in NBR, reinforcing ring in AISI 430.

In case of very aggressive atmospheres (like very close to the sea) the installer has to choose the adequate metallic nuts and bolts.

STANDARDS

Threads following DIN 2999 - BS 21 - ISO 7-1 up to D 160 mm, ISO 228 from D 180 to D 315 mm.

Coupling to pipes complying:

- PE metric sized according to, ISO 4427 and EN 12201.
- PVC metric sized according to EN ISO 1452.
- PP metric sized according to EN ISO 15494.

PRESSURE RATING

503 - pressure rating at 20° C: 6 bar according to ISO 13460.

505 and 508 - see enclosed table.

INSTALLATION

- 1) Define the position of the branch and clean the external surface of the pipe.
- 2) Put the O-ring in the relevant seat and position the upper part of the saddle on the pipe.
- 3) Couple the bottom part of the saddle with the upper one.
Insert the bolts from the bottom, screw the nuts and tighten the bolts diagonally opposite each other.
- 4) Drill a hole in the pipe taking care not to damage the pipe itself and the gasket.

> PRESE A STAFFA - CARATTERISTICHE GENERALI

DESCRIZIONE

Le prese a staffa meccaniche Astore sono la corretta soluzione tecnica per le derivazioni d'utenza nell'impiantistica irrigua ed in acquedottistica.

GAMMA

Le prese a staffa vengono fornite nelle seguenti versioni:

- 503 a derivazione singola. Diametro di accoppiamento con tubo dal D 20 al D 110 mm e derivazioni filettate da 1/2" a 3", provviste di 2 e 4 bulloni a seconda dei diametri.
- 505 a derivazione singola. Diametro di accoppiamento con tubo dal D 20 al D 315 mm e derivazioni filettate dal 1/2" a 4", provviste di 2, 4 e 6 bulloni a seconda dei diametri, e di anello di rinforzo metallico sulla filettatura di derivazione.
- 508 a doppia derivazione. Diametro di accoppiamento con tubo dal D 20 al D 315 mm e derivazioni filettate dal 1/2" a 4", provviste di 2, 4 e 6 bulloni a seconda dei diametri, e di anelli di rinforzo metallico sulle filettature di derivazione.

MATERIALI

Corpo staffa in polipropilene nero, dadi e bulloni in acciaio zinco cromato, guarnizione in NBR, anello di rinforzo in AISI 430.

In caso di ambienti particolarmente aggressivi (es. ambiente salino dovuto alla vicinanza al mare), l'installatore dovrà valutare la scelta di materiale adeguato per la tiranteria metallica.

NORME DI RIFERIMENTO

Filettature di derivazione secondo DIN 2999 - BS 21 - ISO 7-1 fino a D 160 mm, ISO 228 dal D 180 al D 315.

Possibilità di accoppiamento con tubi:

- PE serie metrica secondo, ISO 4427, EN 12201.
- PVC serie metrica secondo EN ISO 1452.
- PP serie metrica secondo EN ISO 15494.

PRESSIONE D'ESERCIZIO

503 - pressione di esercizio a 20° C: 6 bar secondo ISO 13460.

505-508 - consultare la tabella allegata.

PROCEDIMENTI DI INSTALLAZIONE

- 1) Individuare il punto di derivazione, rendendolo agibile e pulire il tubo da impurità.
- 2) Inserire la guarnizione nell'apposito alloggiamento e posizionare la parte superiore della staffa.
- 3) Posizionare la parte inferiore accoppiandola con quella superiore, inserire i bulloni dalla parte inferiore e serrare i dadi "a croce".
- 4) Forare la tubazione con apposito foratubi o trapano con punta a tazza, facendo attenzione a non deteriorare il tubo in prossimità della zona di tenuta e la guarnizione.

> ANBOHRSCHELLEN - ALLGEMEINE EIGENSCHAFTEN

BESCHREIBUNG

Die mechanischen Anbohrschellen Astore sind die ideale technische Lösung für die Verbraucherleitungen in der Bewässerungstechnik und der öffentlichen Wasserversorgung.

PRODUKTPALETTE

Die Anbohrschellen sind in den folgenden Ausführungen verfügbar:

- 503 mit einfacher Anbohrschelle. Rohranschlußdurchmesser von D 20 bis 110 mm und Schraubableitungen von 1/2" bis 3", je nach Durchmesser mit 2 und 4 Schraubenbolzen.
- 505 mit einfacher Rohrverzweigung. Rohranschlußdurchmesser D 20 bis 315 mm und Schraubableitungen 1/2" bis 4", je nach Durchmesser mit 2, 4 und 6 Schraubenbolzen sowie metallischem Verstärkungsring auf dem Ableitungsgewinde.
- 508 mit Doppelverzweigung. Rohranschlußdurchmesser von D 20 bis 315 mm und Schraubableitungen 1/2" bis 4", je nach Durchmesser mit 2, 4 und 6 Schraubenbolzen sowie metallischem Verstärkungsring auf dem Ableitungsgewinde.

MATERIAL

Die Anbohrschelle ist aus schwarzem Polypropylen co-polymer, Überwurfmutter und Schraubbolzen sind aus verzinktem Chromstahl, NBR-Dichtung und Verstärkungsring sind aus AISI 430. Im Falle besonders aggressiven Atmosphären (wie in der Nähe vom Meer),

der Installateur muss die ausreichenden metallischen Schraubbolzen und Mutter wählen.

BEZUGSNORMEN

Ableitungsgewinde gemäß DIN 2999, BS 21, ISO 7-1 D 20 bis D 160 mm, ISO 228 D 180 mm bis D 315 mm.

Mögliche Rohrverbindungen mit:

- metrischer PE-Serie gemäß, ISO 4427, EN 12201.
- metrischer PVC-Serie gemäß EN ISO 1452.
- metrischer PP-serie gemäß EN ISO 15494.

BETRIEBSDRUCK

503 - bei 20° C 6 bar Betriebsdruck gemäß ISO 13460.
505 und 508 - Beachten sie hierzu die beigelegte Tabelle.

INSTALLATION

- 1) Ableitungsstelle freilegen und Rohrleitung säubern.
- 2) Dichtung in ihren Sitz einlegen, Oberteil der Anbohrschelle einsetzen.
- 3) Das Unterteil auf das Oberteil setzen, Schraubbolzen von unten einführen und Überwurfmutter "über Kreuz" anziehen.
- 4) Bohrungen mit geeignetem Rohrbohrer oder mit Bohrmaschine + Bohreinsatz am Rohr anbringen. Dabei ist darauf zu achten, daß die Rohranschlüsse sowie der Dichtung nicht beschädigt werden.

> COLLIERS DE PRISE - CARACTÉRISTIQUES GÉNÉRALES

DESCRIPTION

Les colliers de prise mécaniques Astore représentent la solution technique idéale pour les dériviations de service sur des installations d'irrigation et des réseaux de distribution des eaux.

GAMME

Les colliers de prise sont disponibles dans les versions suivantes:

- 503 à dérivation simple. Diamètre d'accouplement avec tuyau de D 20 au D 110 mm et dériviations filetéées de 1/2" à 3", dotées de 2 et 4 boulons en fonction du diamètre.
- 505 à dérivation simple. Diamètre d'accouplement avec tuyau de D 20 au D 315 mm et dériviations filetéées de 1/2" à 4", dotées de 2, 4 et 6 boulons en fonction du diamètre et d'une bague de renfort métallique sur le filetage de dérivation.
- 508 à dérivation double. Diamètre d'accouplement avec tuyau de D 20 au D 315 mm et dériviations filetéées de 1/2" à 4", dotées de 2, 4 et 6 boulons en fonction du diamètre et d'une bague de renfort métallique sur le filetage de dérivation.

MATÉRIAUX

Le corps du collier de prise est en polypropylène noir, les écrous et les boulons sont en acier galvanisé chromé, le joint est en NBR et la bague de renfort en AISI 430.

En cas de des milieux particulièrement agressifs (comme à proximité de la

mer), l'installateur devra évaluer le choix de matériel adéquat comme boulons et écrous métalliques.

NORMES DE RÉFÉRENCES

Filetages de dérivation selon DIN 2999, BS 21, ISO 7-1 de D 20 au D 160 mm, ISO 228 de D 180 au D 315 mm.

Possibilité d'accouplement avec tuyaux:

- PE série métrique selon, ISO 4427, EN 12201.
- PVC série métrique selon EN ISO 1452.
- PP série métrique selon EN ISO 15494.

PRESSION D'EXERCICE

503 - pression d'exercice à 20° C: 6 bar selon ISO 13460.
505 et 508 - voir le tableau attaché.

PROCÉDURE D'INSTALLATION

- 1) Déterminer le point de dérivation en le rendant accessible et nettoyer le tuyau à fond.
- 2) Insérer le joint dans le logement prévu à cet effet et placer la partie supérieure dans la bride.
- 3) Placer la partie inférieure en l'accouplant avec la partie supérieure, insérer les boulons par la partie inférieure et serrer les écrous "à croix".
- 4) Percer le tuyau faisant attention de ne pas détériorer le tuyau chez de la zone d'étanchéité et du joint. On conseille d'utiliser perforatrice de tuyaux ou perceuse munie d'une pointe a godet.

> COLLARINES DE TOMA - CARACTERISTICAS GENERALS

DESCRIPCIÓN

Los collarines de toma mecanicos Astore son la corecta solucion tecnica para las derivaciones en las instalaciones para agua y riego.

GAMA

Los collarines de toma se suministran en las siguientes versiones:

- 503 derivacion unica, para tubos desde D 20 mm hasta D 110 mm, derivacion roscada de 1/2" hasta 3", con 2 y 4 tornillos segun los diametros.
- 505 derivacion unica, para tubos desde D 20 mm hasta D 315 mm, derivacion roscada de 1/2" hasta 4", con 2, 4 y 6 tornillos segun los diametros, anillo de metal de refuerzo en la rosca de derivacion.
- 508 derivacion doble, para tubos desde D 20 mm hasta D 315 mm, derivacion roscada de 1/2" hasta 4", con 2, 4 y 6 tornillos segun los diametros, anillo de metal de refuerzo en la rosca de derivacion.

MATERIALES

Cuerpo collarin en PP copolimero negro, tornillos en acero cromado, junta de estanqueidad en NBR, anillo de refuerzo en AISI 430. En caso de atmósferas particularmente agresivas (como la vecindad al mar), el instalador tendrá que opciónar del material adecuado como tornillos y tuercas metálicas.

NORMAS DE REFERENCIA

Rosca de derivacion segun DIN 2999 - BS 21 - ISO 7-1
D 20 hasta D 160 mm, ISO 228 de D 180 mm hasta D 315 mm.
Posibilidades de uniones con tuberias:

- PE serie metrica segun, ISO 4427 y EN 12201.
- PVC serie metrica segun EN ISO 1452.
- PP serie metrica segun EN ISO 15494.

PRESIÓN DE TRABAJO

503 - presión de trabajo a 20° C: 6 bares segun ISO 13460.
505 y 508 - consultar lista aqui encluida.

INSTALACIÓN

- 1) Determinar el punto de derivacion y limpiar bien la tuberia.
- 2) Insertar la junta de estanqueidad en su asiento y posicionar la parte superior del collarin.
- 3) Posicionar la parte inferior acoplandola con la superior, insertando los tornillos en esta parte y apretandolos tipo "cruz".
- 4) Perforar la tuberia con una taladradora: cuidado a non deteriorar la tuberia y la junta.

> COMPANY APPROVAL

Italian Institute of Plastics (IIP) has attested the conformity of Astore production system to norm UNI EN ISO 9001 (certificate N° 354). In 2008 Astore has obtained the certification UNI EN ISO 14001 of his own Environmental Management System. This means how this company is involved in diminishing the impact of his own activities on atmosphere according to norm UNI EN ISO 14001. This implies an improvement of the production process with an efficiency increase, the substantial reduction of the energetic consumption and the optimization of the refusals. The certificate testifies a further step towards a better qualitative standard.

NSF has issued OQC certificate for ASTORE products.

Clamp saddles, as all other products Astore, are "made in Italy". This is now certified by a prestigious Body called NSF. The above is attested by the Quality Registration Mark "Origin and Quality Controlled" (OQC) nr 07/2013.

L'Istituto Italiano dei Plastici (IIP) ha ufficialmente attestato la conformità del sistema di qualità di "A.V.F. Astore Valves and Fittings srl" alla norma UNI EN ISO 9001 per l'attività di stampaggio ad iniezione di raccordi e parti di valvole in materiali termoplastici e assemblaggio di valvole.

Nel 2008 Astore ha ottenuto la certificazione UNI EN ISO 14001 del proprio Sistema di Gestione Ambientale, inteso come tutto quanto è in potere dell'azienda per minimizzare l'impatto delle proprie attività sull'ambiente seguendo i requisiti della norma UNI EN ISO 14001. Questo implica un miglioramento del processo produttivo con un incremento di efficienza, la riduzione sostanziale dei consumi energetici e l'ottimizzazione della gestione rifiuti. Il certificato testimonia un ulteriore passo avanti nell'innalzamento dello standard qualitativo aziendale.

NSF ha emesso per Astore il certificato OQC.

Come tutti i prodotti della gamma Astore, anche le staffe sono rigorosamente "made in Italy", ora anche certificato da un ente prestigioso come NSF. Quanto sopra è ufficializzato con l'emissione del certificato OQC, Certificato di Origine Qualità Controllata n°7/2013.

SISTEMA DI GESTIONE

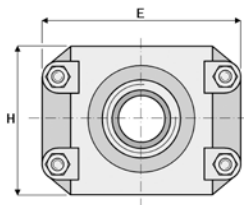
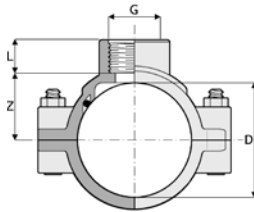
UNI EN ISO 9001 CERT. IIP N° 354
UNI EN ISO 14001 CERT. IIP N° 129



> 505 - WORKING PRESSURE AT 20° C ACCORDING TO ISO 13460

DxG	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
20	10 BAR								
25	10 BAR	10 BAR							
32	10 BAR	10 BAR	10 BAR						
40	10 BAR	10 BAR	10 BAR						
50	10 BAR	10 BAR	10 BAR						
63	10 BAR	10 BAR	10 BAR	10 BAR	10 BAR				
75	10 BAR	10 BAR	10 BAR	10 BAR	10 BAR	10 BAR			
90	10 BAR	10 BAR	10 BAR	10 BAR	10 BAR	10 BAR			
110	10 BAR	10 BAR	10 BAR	10 BAR	10 BAR	10 BAR		6 BAR	
125		10 BAR	10 BAR	10 BAR	10 BAR	10 BAR			
140			10 BAR	10 BAR	10 BAR	10 BAR	6 BAR	6 BAR	
160		10 BAR	10 BAR	10 BAR	10 BAR	10 BAR		6 BAR	
180				6 BAR	6 BAR	6 BAR		6 BAR	6 BAR
200				6 BAR	6 BAR	6 BAR		6 BAR	6 BAR
225				4 BAR	4 BAR	4 BAR		4 BAR	4 BAR
250				4 BAR	4 BAR	4 BAR		4 BAR	4 BAR
280				4 BAR	4 BAR	4 BAR		4 BAR	4 BAR
315				4 BAR	4 BAR	4 BAR		4 BAR	4 BAR

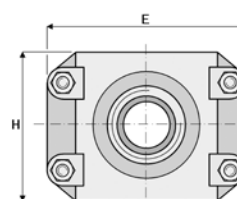
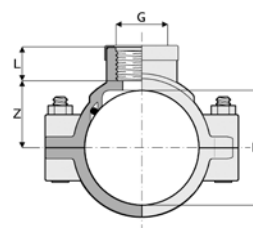
> 503



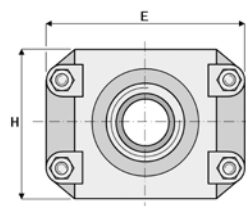
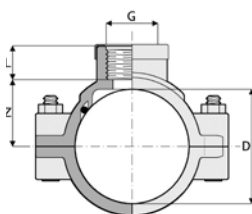
DxG	L	Z	E	H	g	n° Bolts	Bolts	Ref.	Pack	Box	Master
20x1/2"	17	16	62	37,5	51	2	M6x35	1S.503.20B.00F	1	150	C
25x1/2"	18,5	18,5	69	43	62	2	M6x35	1S.503.25B.00F	1	120	C
25x3/4"	18,5	18,5	69	43	66	2	M6x35	1S.503.25C.00F	1	120	C
32x1/2"	18,5	22,5	78	45	96	2	M8x45	1S.503.32B.00F	1	100	C
32x3/4"	18,5	22,5	78	45	98	2	M8x45	1S.503.32C.00F	1	100	C
32x1"	18,5	22,5	91	60	131	2	M8x45	1S.503.32D.00F	1	60	C
40x1/2"	22	27	84	51	115	2	M8x45	1S.503.40B.00F	1	60	C
40x3/4"	22	27	84	51	120	2	M8x45	1S.503.40C.00F	1	60	C
40x1"	22	27	84	51	125	2	M8x45	1S.503.40D.00F	1	60	C
50x1/2"	22	32,5	87	53	117	2	M8x45	1S.503.50B.00F	1	50	C
50x3/4"	22	32,5	87	53	120	2	M8x45	1S.503.50C.00F	1	50	C
50x1"	22	32,5	87	53	125	2	M8x45	1S.503.50D.00F	1	50	C
63x1/2"	17	40	100	71	235	4	M8x50	1S.503.63B.00F	1	75	B
63x3/4"	20	40	100	71	240	4	M8x50	1S.503.63C.00F	1	75	B
63x1"	22	40	100	71	242	4	M8x50	1S.503.63D.00F	1	75	B
63x1 1/4"	24	40	100	71	250	4	M8x50	1S.503.63E.00F	1	70	B
63x1 1/2"	24	40	100	71	255	4	M8x50	1S.503.63F.00F	1	70	B
75x1/2"	17	44,5	120	91	310	4	M8x50	1S.503.75B.00F	1	50	B
75x3/4"	20	44,5	120	91	315	4	M8x50	1S.503.75C.00F	1	50	B
75x1"	22	44,5	120	91	322	4	M8x50	1S.503.75D.00F	1	50	B
75x1 1/4"	24	44,5	120	91	350	4	M8x50	1S.503.75E.00F	1	45	B
75x1 1/2"	24	44,5	120	91	330	4	M8x50	1S.503.75F.00F	1	45	B
75x2"	26	44,5	120	91	330	4	M8x50	1S.503.75G.00F	1	45	B
90x1/2"	17	52	137	91	355	4	M8x60	1S.503.90B.00F	1	40	B
90x3/4"	20	52	137	91	357	4	M8x60	1S.503.90C.00F	1	40	B
90x1"	22	52	137	91	360	4	M8x60	1S.503.90D.00F	1	40	B
90x1 1/4"	24	52	137	91	360	4	M8x60	1S.503.90E.00F	1	35	B
90x1 1/2"	24	52	137	91	368	4	M8x60	1S.503.90F.00F	1	35	B
90x2"	26	52	137	91	374	4	M8x60	1S.503.90G.00F	1	35	B
110x1/2"	17	65	155	98,5	400	4	M8x60	1S.503.11B.00F	1	25	B
110x3/4"	20	65	155	98,5	403	4	M8x60	1S.503.11C.00F	1	25	B
110x1"	22	65	155	98,5	410	4	M8x60	1S.503.11D.00F	1	25	B
110x1 1/4"	24	65	155	98,5	420	4	M8x60	1S.503.11E.00F	1	25	B
110x1 1/2"	24	65	155	98,5	426	4	M8x60	1S.503.11F.00F	1	25	B
110x2"	24	65	155	98,5	435	4	M8x60	1S.503.11G.00F	1	25	B
110x3"	33	65	159	118,5	507	4	M8x60	1S.503.11I.00F	1	20	B

505 <

DxG	L	Z	E	H	g	n° Bolts	Bolts	Ref.	Pack	Box	Master
20x1/2"	17	16	62	37,5	56	2	M6x35	1S.505.20B.00F	1	150	C
25x1/2"	18,5	18,5	69	43	67	2	M6x35	1S.505.25B.00F	1	120	C
25x3/4"	18,5	18,5	69	43	71	2	M6x35	1S.505.25C.00F	1	120	C
32x1/2"	18,5	22,5	78	45	99	2	M8x45	1S.505.32B.00F	1	100	C
32x3/4"	18,5	22,5	78	45	103	2	M8x45	1S.505.32C.00F	1	100	C
32x1"	18,5	22,5	91	60	138	2	M8x45	1S.505.32D.00F	1	60	C
40x1/2"	22	27	84	51	119	2	M8x45	1S.505.40B.00F	1	60	C
40x3/4"	22	27	84	51	125	2	M8x45	1S.505.40C.00F	1	60	C
40x1"	22	27	84	51	132	2	M8x45	1S.505.40D.00F	1	60	C
50x1/2"	22	32,5	87	53	119	2	M8x45	1S.505.50B.00F	1	50	C
50x3/4"	22	32,5	87	53	123	2	M8x45	1S.505.50C.00F	1	50	C
50x1"	22	32,5	87	53	132	2	M8x45	1S.505.50D.00F	1	50	C
63x1/2"	17	40	100	71	237	4	M8x50	1S.505.63B.00F	1	75	B
63x3/4"	20	40	100	71	244	4	M8x50	1S.505.63C.00F	1	75	B
63x1"	22	40	100	71	249	4	M8x50	1S.505.63D.00F	1	75	B
63x1 1/4"	24	40	100	71	260	4	M8x50	1S.505.63E.00F	1	70	B
63x1 1/2"	24	40	100	71	267	4	M8x50	1S.505.63F.00F	1	70	B
75x1/2"	17	44,5	120	91	312	4	M8x50	1S.505.75B.00F	1	50	B
75x3/4"	20	44,5	120	91	319	4	M8x50	1S.505.75C.00F	1	50	B
75x1"	22	44,5	120	91	329	4	M8x50	1S.505.75D.00F	1	50	B
75x1 1/4"	24	44,5	120	91	360	4	M8x50	1S.505.75E.00F	1	45	B
75x1 1/2"	24	44,5	120	91	342	4	M8x50	1S.505.75F.00F	1	45	B
75x2"	26	44,5	120	91	346	4	M8x50	1S.505.75G.00F	1	45	B
90x1/2"	17	52	137	91	358	4	M8x60	1S.505.90B.00F	1	40	B
90x3/4"	20	52	137	91	360	4	M8x60	1S.505.90C.00F	1	40	B
90x1"	22	52	137	91	367	4	M8x60	1S.505.90D.00F	1	40	B
90x1 1/4"	24	52	137	91	370	4	M8x60	1S.505.90E.00F	1	35	B
90x1 1/2"	24	52	137	91	380	4	M8x60	1S.505.90F.00F	1	35	B
90x2"	26	52	137	91	390	4	M8x60	1S.505.90G.00F	1	35	B
110x1/2"	17	65	155	98,5	403	4	M8x60	1S.505.11B.00F	1	25	B
110x3/4"	20	65	155	98,5	407	4	M8x60	1S.505.11C.00F	1	25	B
110x1"	22	65	155	98,5	417	4	M8x60	1S.505.11D.00F	1	25	B
110x1 1/4"	24	65	155	98,5	430	4	M8x60	1S.505.11E.00F	1	25	B
110x1 1/2"	24	65	155	98,5	438	4	M8x60	1S.505.11F.00F	1	25	B
110x2"	24	65	155	98,5	451	4	M8x60	1S.505.11G.00F	1	25	B
110x3"	33	65	155	98,5	537	4	M8x60	1S.505.11I.00F	1	20	B
125x3/4"	20	73,5	168	101	540	4	M8x60	1S.505.13C.00F	1	30	B
125x1"	22	73,5	168	101	543	4	M8x60	1S.505.13D.00F	1	30	B
125x1 1/4"	24	73,5	168	101	545	4	M8x60	1S.505.13E.00F	1	30	B
125x1 1/2"	24	73,5	168	101	548	4	M8x60	1S.505.13F.00F	1	30	B
125x2"	24	73,5	168	101	552	4	M8x60	1S.505.13G.00F	1	30	B
140x1"	22	80	189	134	921	6	M8x60	1S.505.15D.00F	1	20	B
140x1 1/4"	24	80	189	134	923	6	M8x60	1S.505.15E.00F	1	20	B
140x1 1/2"	24	80	189	134	926	6	M8x60	1S.505.15F.00F	1	20	B
140x2"	24	80	189	134	930	6	M8x60	1S.505.15G.00F	1	20	B
140x2 1/2"	24	80	189	134	937	6	M8x60	1S.505.15H.00F	1	20	B
140x3"	33	80	189	134	944	6	M8x60	1S.505.15I.00F	1	20	B
160x3/4"	22	88	213	137	987	6	M8x60	1S.505.17C.00F	1	16	B
160x1"	22	88	213	137	991	6	M8x60	1S.505.17D.00F	1	16	B
160x1 1/4"	24	88	213	137	994	6	M8x60	1S.505.17E.00F	1	16	B
160x1 1/2"	24	88	213	137	996	6	M8x60	1S.505.17F.00F	1	16	B



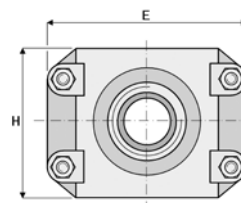
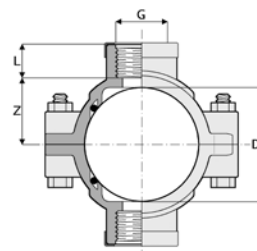
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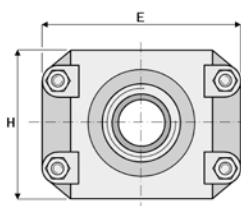
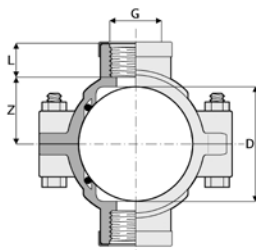
DxG	L	Z	E	H	g	n° Bolts	Bolts	Ref.	Pack	Box	Master
160x2"	28,5	88	213	137	1000	6	M8x60	1S.505.17G.00F	1	16	B
160x3"	36	88	213	137	1014	6	M8x60	1S.505.17I.00F	1	15	B
180x1 1/4"	24	115	265	171	2289	6	M10x80	1S.505.18E.00	1	8	B
180x1 1/2"	24	115	265	171	2292	6	M10x80	1S.505.18F.00	1	8	B
180x2"	24	115	265	171	2296	6	M10x80	1S.505.18G.00	1	8	B
180x3"	33	115	265	171	2310	6	M10x80	1S.505.18I.00	1	8	B
180x4"	42	115	265	171	2314	6	M10x80	1S.505.18L.00	1	6	B
200x1 1/4"	24	115	265	171	2019	6	M10x80	1S.505.21E.00	1	8	B
200x1 1/2"	24	115	265	171	2022	6	M10x80	1S.505.21F.00	1	8	B
200x2"	24	115	265	171	2026	6	M10x80	1S.505.21G.00	1	8	B
200x3"	33	115	265	171	2040	6	M10x80	1S.505.21I.00	1	8	B
200x4"	42	115	265	171	2044	6	M10x80	1S.505.21L.00	1	8	B
225x1 1/4"	24	127,5	280	173	2165	6	M10x80	1S.505.23E.00	1	7	B
225x1 1/2"	24	127,5	280	173	2145	6	M10x80	1S.505.23F.00	1	7	B
225x2"	24	127,5	280	173	2155	6	M10x80	1S.505.23G.00	1	7	B
225x3"	33	127,5	280	173	2180	6	M10x80	1S.505.23I.00	1	7	B
225x4"	42	127,5	280	173	2210	6	M10x80	1S.505.23L.00	1	7	B
250x1 1/4"	24	142	313	181	2545	6	M10x80	1S.505.26E.00	1	7	B
250x1 1/2"	24	142	313	181	2548	6	M10x80	1S.505.26F.00	1	7	B
250x2"	22,4	142	313	181	2552	6	M10x80	1S.505.26G.00	1	7	B
250x3"	33	142	313	181	2566	6	M10x80	1S.505.26I.00	1	7	B
250x4"	42	142	313	181	2570	6	M10x80	1S.505.26L.00	1	6	B
280x1 1/4"	24	171	385	190	4069	6	M10x80	1S.505.28E.00	1	3	B
280x1 1/2"	24	171	385	190	4072	6	M10x80	1S.505.28F.00	1	3	B
280x2"	24	171	385	190	4076	6	M10x80	1S.505.28G.00	1	3	B
280x3"	33	171	385	190	4090	6	M10x80	1S.505.28I.00	1	3	B
280x4"	42	171	385	190	4094	6	M10x80	1S.505.28L.00	1	3	B
315x1 1/4"	24	171	385	190	3168	6	M10x80	1S.505.33E.00	1	4	B
315x1 1/2"	24	171	385	190	3171	6	M10x80	1S.505.33F.00	1	4	B
315x2"	24	171	385	190	3175	6	M10x80	1S.505.33G.00	1	4	B
315x3"	33	171	385	190	3189	6	M10x80	1S.505.33I.00	1	4	B
315x4"	42	171	385	190	3193	6	M10x80	1S.505.33L.00	1	4	B

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DxGxG	L	Z	E	H	g	n° Bolts	Bolts	Ref.
20x1/2"x1/2"	17	16	62	37,5	61	2	M6x35	1S.508.20B.00
25x1/2"x1/2"	18,5	18,5	69	43	53	2	M6x35	1S.508.25B.00
25x3/4"x3/4"	18,5	18,5	69	43	79	2	M6x35	1S.508.25C.00
32x1/2"x1/2"	18,5	22,5	78	45	106	2	M8x45	1S.508.32B.00
32x3/4"x3/4"	18,5	22,5	78	45	114	2	M8x45	1S.508.32C.00
32x1"x1"	18,5	22,5	91	60	154	2	M8x45	1S.508.32D.00
40x1/2"x1/2"	22	27	84	51	132	2	M8x45	1S.508.40B.00
40x3/4"x3/4"	22	27	84	51	144	2	M8x45	1S.508.40C.00
40x1"x1"	22	27	84	51	156	2	M8x45	1S.508.40D.00
50x1/2"x1/2"	22	32,5	87	53	126	2	M8x50	1S.508.50B.00
50x3/4"x3/4"	22	32,5	87	53	140	2	M8x50	1S.508.50C.00
50x1"x1"	22	32,5	87	53	154	2	M8x50	1S.508.50D.00
63x1/2"x1/2"	17	40	100	71	250	4	M8x50	1S.508.63B.00
63x3/4"x3/4"	20	40	100	71	252	4	M8x50	1S.508.63C.00
63x1"x1"	22	40	100	71	272	4	M8x50	1S.508.63D.00
63x1 1/4"x1 1/4"	24	40	100	71	292	4	M8x50	1S.508.63E.00
63x1 1/2"x1 1/2"	24	40	100	71	308	4	M8x50	1S.508.63F.00
75x1/2"x1/2"	17	44,5	170	91	320	4	M8x60	1S.508.75B.00
75x3/4"x3/4"	20	44,5	170	91	324	4	M8x60	1S.508.75C.00
75x1"x1"	22	44,5	170	91	340	4	M8x60	1S.508.75D.00
75x1 1/4"x1 1/4"	24	44,5	170	91	356	4	M8x60	1S.508.75E.00
75x1 1/2"x1 1/2"	24	44,5	170	91	364	4	M8x60	1S.508.75F.00
75x2"x2"	26	44,5	170	91	392	4	M8x60	1S.508.75G.00
90x1/2"x1/2"	17	52	137	91	362	4	M8x60	1S.508.90B.00
90x3/4"x3/4"	20	52	137	91	366	4	M8x60	1S.508.90C.00
90x1"x1"	22	52	137	91	374	4	M8x60	1S.508.90D.00
90x1 1/4"x1 1/4"	24	52	137	91	392	4	M8x60	1S.508.90E.00
90x1 1/2"x1 1/2"	24	52	137	91	398	4	M8x60	1S.508.90F.00
90x2"x2"	26	52	137	91	414	4	M8x60	1S.508.90G.00
110x1/2"x1/2"	17	65	155	98,5	408	4	M8x60	1S.508.11B.00
110x3/4"x3/4"	20	65	155	98,5	414	4	M8x60	1S.508.11C.00
110x1"x1"	22	65	155	98,5	422	4	M8x60	1S.508.11D.00
110x1 1/4"x1 1/4"	24	65	155	98,5	450	4	M8x60	1S.508.11E.00
110x1 1/2"x1 1/2"	24	65	155	98,5	466	4	M8x60	1S.508.11F.00
110x2"x2"	24	65	155	98,5	494	4	M8x60	1S.508.11G.00
110x3"x3"	33	65	159	118,5	730	4	M8x60	1S.508.11I.00
125x3/4"x3/4"	20	73,5	168	101	540	4	M8x60	1S.508.13C.00
125x1"x1"	22	73,5	168	101	553	4	M8x60	1S.508.13D.00
125x1 1/4"x1 1/4"	24	73,5	168	101	575	4	M8x60	1S.508.13E.00
125x1 1/2"x1 1/2"	24	73,5	168	101	589	4	M8x60	1S.508.13F.00
125x2"x2"	24	73,5	168	101	615	4	M8x60	1S.508.13G.00
140x1"x1"	22	80	189	134	968	6	M8x75	1S.508.15D.00
140x1 1/4"x1 1/4"	24	80	189	134	985	6	M8x75	1S.508.15E.00
140x1 1/2"x1 1/2"	24	80	189	134	995	6	M8x75	1S.508.15F.00
140x2"x2"	24	80	189	134	1015	6	M8x75	1S.508.15G.00
140x2 1/2"x2 1/2"	24	80	189	134	1070	6	M8x75	1S.508.15H.00
140x3"x3"	33	80	189	134	1200	6	M8x75	1S.508.15I.00
160x3/4"x3/4"	22	88	213	137	1045	6	M8x75	1S.508.17C.00
160x1"x1"	22	88	213	137	1045	6	M8x75	1S.508.17D.00
160x1 1/4"x1 1/4"	24	88	213	137	1080	6	M8x75	1S.508.17E.00
160x1 1/2"x1 1/2"	24	88	213	137	1098	6	M8x75	1S.508.17F.00



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DxGxG	L	Z	E	H	g	n°Bolts	Bolts	Ref.
160x2"x2"	28,5	88	213	135	1135	6	M8x75	1S.508.17G.00
160x3"x3"	36	88	213	135	1120	6	M8x75	1S.508.17I.00
180x1 1/4"x1 1/4"	24	115	265	171	2356	6	M10x80	1S.508.18E.00
180x1 1/2"x1 1/2"	24	115	265	171	2380	6	M10x80	1S.508.18F.00
180x2"x2"	24	115	265	171	2460	6	M10x80	1S.508.18G.00
180x3"x3"	33	115	265	171	2660	6	M10x80	1S.508.18I.00
180x4"x4"	42	115	265	171	2840	6	M10x80	1S.508.18L.00
200x1 1/4"x1 1/4"	24	115	265	171	1910	6	M10x80	1S.508.21E.00
200x1 1/2"x1 1/2"	24	115	265	171	1935	6	M10x80	1S.508.21F.00
200x2"x2"	24	115	265	171	1980	6	M10x80	1S.508.21G.00
200x3"x3"	33	115	265	171	2200	6	M10x80	1S.508.21I.00
200x4"x4"	42	115	265	171	2380	6	M10x80	1S.508.21L.00
225x1 1/4"x1 1/4"	24	127,5	280	173	2110	6	M10x80	1S.508.23E.00
225x1 1/2"x1 1/2"	24	127,5	280	173	2130	6	M10x80	1S.508.23F.00
225x2"x2"	24	127,5	280	173	2195	6	M10x80	1S.508.23G.00
225x3"x3"	33	127,5	280	173	2420	6	M10x80	1S.508.23I.00
225x4"x4"	42	127,5	280	173	2600	6	M10x80	1S.508.23L.00
250x1 1/4"x1 1/4"	24	142	313	181	2580	6	M10x80	1S.508.26E.00
250x1 1/2"x1 1/2"	24	142	313	181	2600	6	M10x80	1S.508.26F.00
250x2"x2"	22,4	142	313	181	2650	6	M10x80	1S.508.26G.00
250x3"x3"	33	142	313	181	2860	6	M10x80	1S.508.26I.00
250x4"x4"	42	142	313	181	3040	6	M10x80	1S.508.26L.00
280x1 1/4"x1 1/2"	24	171	385	190	4050	6	M10x80	1S.508.28E.00
280x1 1/2"x1 1/2"	24	171	385	190	4070	6	M10x80	1S.508.28F.00
280x2"x2"	24	171	385	190	4120	6	M10x80	1S.508.28G.00
280x3"x3"	33	171	385	190	4320	6	M10x80	1S.508.28I.00
280x4"x4"	42	171	385	190	4500	6	M10x80	1S.508.28L.00
315x1 1/4"x1 1/4"	24	171	385	190	3105	6	M10x80	1S.508.33E.00
315x1 1/2"x1 1/2"	24	171	385	190	3120	6	M10x80	1S.508.33F.00
315x2"x2"	24	171	385	190	3170	6	M10x80	1S.508.33G.00
315x3"x3"	33	171	385	190	3400	6	M10x80	1S.508.33I.00
315x4"x4"	42	171	385	190	3600	6	M10x80	1S.508.33L.00



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P.IVA 01086700992 - C.F. 11962910151 - Reg. Imp. di GE 35030/1997 - CCIAA REA 361329

