

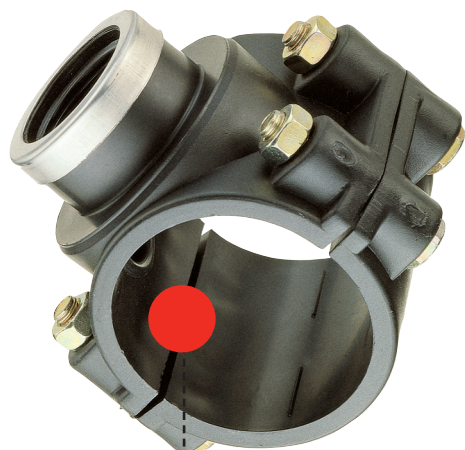
C A T A L O G U E

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A.V.F. ASTORE VALVES AND FITTINGS S.r.l.

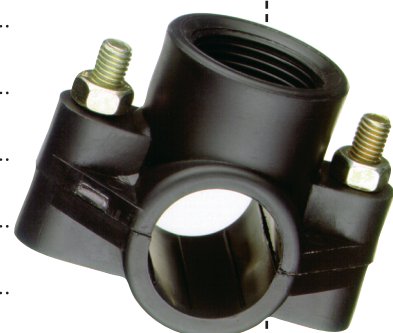
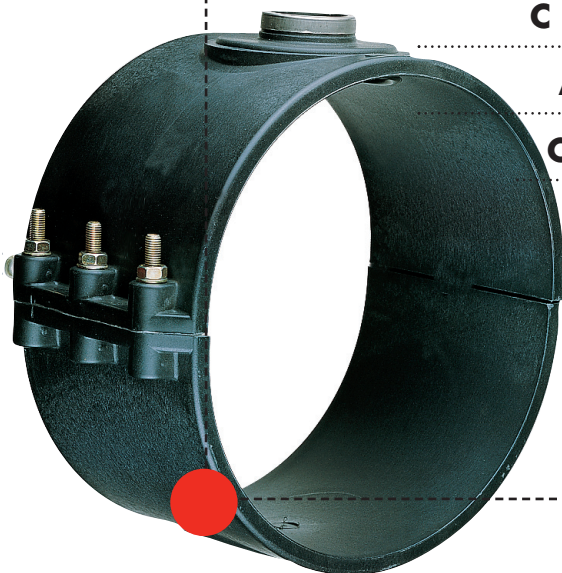
C L A M P S A D D L E S

P R E S E A S T A F F A

C O L L I E R S D E P R I S E

A N B O H R S C H E L L E N

C O L L A R I N E S D E T O M A



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.

Questo riconoscimento è per A.V.F. il coronamento di una politica aziendale volta ad integrare struttura organizzativa, risorse, responsabilità, processi e controlli per il raggiungimento di uno standard qualitativo generale, idoneo a soddisfare con continuità le esigenze dell'utilizzatore. Per A.V.F. la Certificazione ISO 9001 è l'impegno ad operare costantemente al meglio del proprio know how, per la clientela è la sicurezza di poter contare su prodotti sempre affidabili, ed

è il passaporto per entrare in segmenti di mercato, dove questo riconoscimento è vincolante per stabilire relazioni commerciali improntate sulla qualità.



Italian Institute of Plastics (IIP) has attested the conformity of Astore production system to norm UNI EN ISO 9001 (certificate N° 354). This acknowledgment identifies the company business policy turned to integrate organisational structure, resources, responsibilities, processes and controls for the maintenance of a general suitable quality standard and satisfy the demands of the market .

The range, the reliability and the service of Astore are recognized all over the world.



ISTITUTO ITALIANO DEI PLASTICI

CERTIFICATO n. 354
CERTIFICATE no. _____

Box

Box Type	Dimensions
B	60x30x40 cm
C	40x30x30 cm

PRODUCT DESCRIPTION

ASTORE CLAMP SADDLES ARE THE IDEAL SOLUTION FOR BRANCHING FROM EXISTING PIPELINES FOR WATER AND IRRIGATION.

RANGE

ASTORE CLAMP SADDLE 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.

STANDARDS

THREADS FOLLOWING DIN 2999 - BS 21 - ISO R 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 UNI 10910, DIN 8072-8074, AND ISO 3607.
- PVC METRIC SIZED ACCORDING TO ISO 161, UNI EN 1452, BRL-K502.
- PP METRIC SIZED ACCORDING TO ISO 3609, UNI 8318, DIN 8077.

PRESSURE RATING

503 - PRESSURE RATING TO 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.

DESCRIZIONE PRODOTTO

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 DAL 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.

NORME DI RIFERIMENTO

FILETTATURE DI DERIVAZIONE SECONDO DIN 2999 - BS 21 - ISO R7/1 FINO A D. 160 MM., ISO 228 DAL D. 180 AL D. 315.

POSSIBILITÀ DI ACCOPPIAMENTO CON TUBI:

- PE SERIE METRICA SECONDO UNI 10910, DIN 8072-8074, ISO 3607.
- PVC SERIE METRICA SECONDO ISO 161, UNI EN 1452, BRL-K502.
- PP SERIE METRICA SECONDO ISO 3609, UNI 8318, DIN 8077.

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.

CARACTÉRISTIQUES GÉNÉRALES

DESCRIPTION

LES COLLIERES DE PRISE MÉCANIQUES ASTORE REPRÉSENTENT LA SOLUTION TECHNIQUE IDÉALE POUR LES DÉRIVATIONS DE SERVICE SUR DES INSTALLATIONS D'IRRIGATION ET DES RÉSEAUX DE DISTRIBUTION DES EAUX.

GAMME

LES COLLIERES DE PRISE SONT DISPONIBLES DANS LES VERSIONS SUIVANTES:

- 503 À DÉRIVATION SIMPLE. DIAMÈTRE D'ACCOUPLEMENT AVEC TUYAU DE Ø 20 AU Ø 110 MM ET DÉRIVATIONS FILETÉES 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 Ø 20 AU Ø 315 MM ET DÉRIVATIONS FILETÉES 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 Ø 20 AU Ø 315 MM ET DÉRIVATIONS FILETÉES 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 POLYPROPYLENE NOIR, LES ÉCROUS ET LES BOULONS SONT EN ACIER GALVANISÉ CHROMÉ, LE JOINT EST EN NBR ET LA BAGUE DE RENFORT EN AISI 430.

NORMES DE RÉFÉRENCES

FILETAGES DE DÉRIVATION SELON DIN 2999, BS 21, ISO R 7/1 DE Ø 20 AU Ø 160 MM, ISO 228 DE Ø 180 AU Ø 315 MM.

POSSIBILITÉ D'ACCOUPLEMENT AVEC TUYAUX:

- PE SÉRIE MÉTRIQUE SELON UNI 10910, DIN 8072-8074, ISO 3607.
- PVC SÉRIE MÉTRIQUE SELON ISO 161, UNI EN 1452, BRL-K502.
- PP SÉRIE MÉTRIQUE SELON ISO 3609, UNI 8318, DIN 8077.

PRESSIION DE SERVICE

503 – PRESSION DE SERVICE 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 "A 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

ALLGEMEINE EIGENSCHAFTEN

BESCHREIBUNG

DIE MECHANISCHEN ANBOHRSCHELLEN ASTORE SIND DIE IDEALE TECHNISCHE LÖSUNG FÜR DIE VERBRAUCHERABLEITUNGEN IN DER BEWÄSSERUNGSTECHNIK UND DER ÖFFENTLICHEN WASSERVERSORGUNG.

PRODUKTPALETTE

DIE ANBOHRSCHELLEN SIND IN DEN FOLGENDEN AUSFÜHRUNGEN VERFÜGBAR:

- 503 MIT EINFACHER ANBOHRSCHELLE. ROHRANSCHLUßDURCHMESSER Ø 20 BIS 110 MM UND SCHRAUBABLEITUNGEN 1/2" BIS 3", JE NACH DURCHMESSER MIT 2 UND 4 SCHRAUBENBOLZEN.
- 505 MIT EINFACHER ROHRVERZWEIGUNG. ROHRANSCHLUßDURCHMESSER Ø 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 Ø 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, ÜBERWURFMUTTERN UND SCHRAUBBOLZEN SIND AUS VERZINKTEM CHROMSTAHL, NBR-DICHTUNG UND VERSTÄRKUNGSRING SIND AUS AISI 430.

BEZUGSNORMEN

ABLEITUNGSGEWINDE GEMÄß DIN 2999, BS 21, ISO R 7/1 Ø 20 BIS Ø 160 MM, ISO 228 Ø 180 MM BIS Ø 315 MM.

MÖGLICHE ROHRVERBINDUNGEN MIT:

- METRISCHER PE-SERIE GEMÄß UNI 10910, DIN 8072-8074, ISO 3607.
- METRISCHER PVC-SERIE GEMÄß ISO 161, UNI EN 1452, BRL-K502.
- METRISCHER PP-SERIE GEMÄß ISO 3609, UNI 8318, DIN 8077.

BETRIEBSDRUCK

503 – BEI 20° C 6 BAR BETRIEBSDRUCK GEMÄß ISO 13460.

505 UND 508 – BEACHTEN SIE HERZU 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, SCHRAUBENBOLZEN VON UNTEN EINFÜHREN UND ÜBERWÜRFMUTTERN "ÜBER KREUZ" ANZIEHEN.
- 4) BOHRUNGEN MIT GEEIGNETEM ROHRBOHRER ODER MIT BOHRMASCHINE + BOHREINSATZ AM ROHR ANBRINGEN. DABEI IST DARAUF ZU ACHTEN, DAB DIE ROHRANSCHLÜSSE SOWIE DER DICHTUNG NICHT BESCHÄDIGT WERDEN.

DESCRIPCION DEL COLLARIN

LOS COLLARINES DE TOMA MECANICOS ASTORE SON LA CORRECTA 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.

NORMAS DE REFERENCIA

ROSCA DE DERIVACION SEGUN DIN 2999 - BS 21 - ISO R 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 UNI 10910, DIN 8072-8074, Y ISO 3607.
- PVC SERIE METRICA SEGUN ISO 161, UNI EN 1452, BRL-K502.
- PP SERIE METRICA SEGUN ISO 3609, UNI 8318, Y DIN 8077.

PRESION DE TRABAJO

503 - PRESION DE TRABAJO A 20° C: 6 BARES SEGUN ISO 13460.

505 Y 508 - CONSULTAR LISTA AQUI ENCLUIDA.

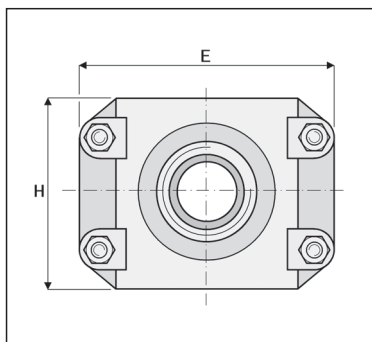
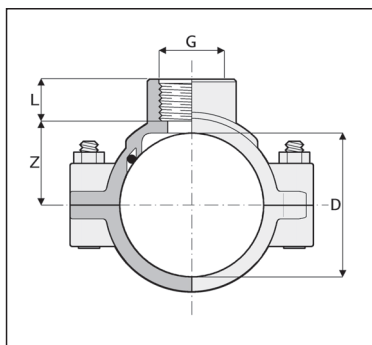
INSTALACION

- 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.

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

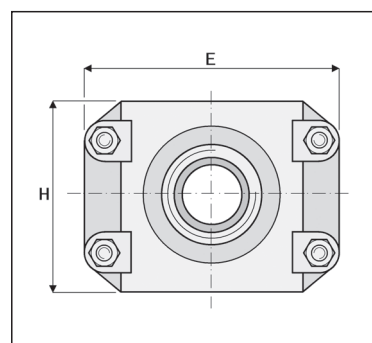
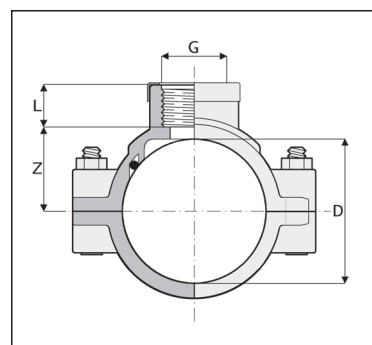
D x G	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
20	10 BAR								
25	10 BAR	10 BAR							
32	10 BAR	10 BAR	10 BAR						
40	10 BAR	10 BAR	10 BAR						
50	10 BAR	10 BAR	10 BAR						
63	10 BAR	10 BAR	10 BAR	10 BAR	10 BAR				
75	10 BAR	10 BAR	10 BAR	10 BAR	10 BAR	10 BAR			
90	10 BAR	10 BAR	10 BAR	10 BAR	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



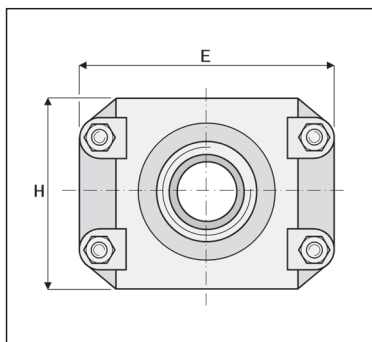
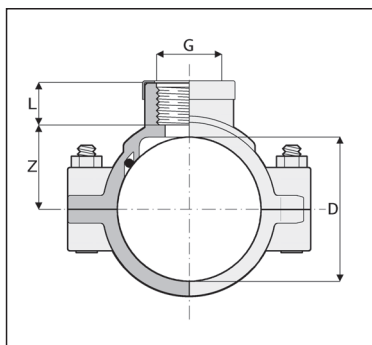
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25x1/2"	18.5	18.5	69	43	62	2	M6x35	1S.503.25B.00F	1	120	C
25x3/4"	18.5	18.5	69	43	66	2	M6x35	1S.503.25C.00F	1	120	C
32x1/2"	18.5	22.5	78	45	96	2	M8x45	1S.503.32B.00F	1	100	C
32x3/4"	18.5	22.5	78	45	98	2	M8x45	1S.503.32C.00F	1	100	C
32x1"	18.5	22.5	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	C
63x3/4"	20	40	100	71	240	4	M8x50	1S.503.63C.00F	1	75	C
63x1"	22	40	100	71	242	4	M8x50	1S.503.63D.00F	1	75	C
63x1 1/4"	24	40	100	71	250	4	M8x50	1S.503.63E.00F	1	70	C
63x1 1/2"	24	40	100	71	255	4	M8x50	1S.503.63F.00F	1	70	C
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



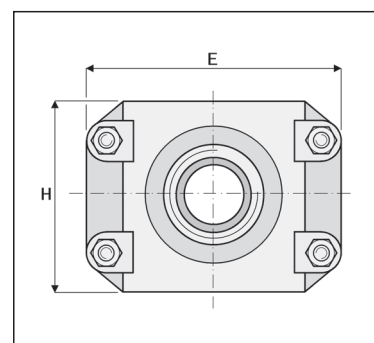
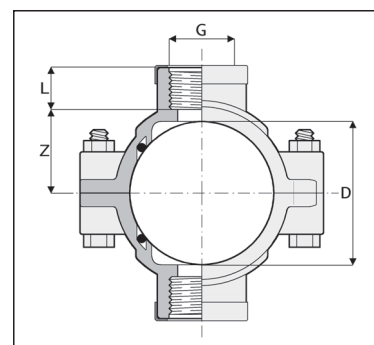
DxG	L	Z	E	H	Gr.	N°Bolts	Bolts	Ref.	Pack	Box	Master
20x1/2"	17	16	62	37.5	56	2	M6x35	1S.505.20B.00F	1	150	C
25x1/2"	18.5	18.5	69	43	67	2	M6x35	1S.505.25B.00F	1	120	C
25x3/4"	18.5	18.5	69	43	71	2	M6x35	1S.505.25C.00F	1	120	C
32x1/2"	18.5	22.5	78	45	99	2	M8x45	1S.505.32B.00F	1	100	C
32x3/4"	18.5	22.5	78	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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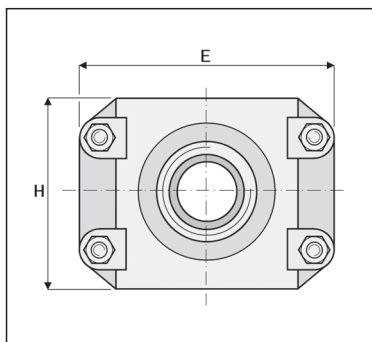
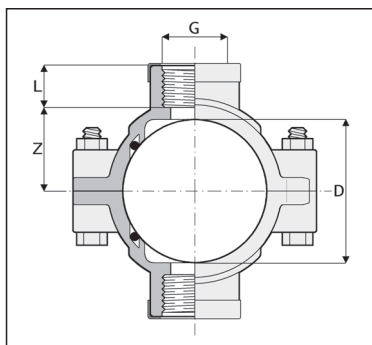
DxG	L	Z	E	H	Gr.	N°Bolts	Bolts	Ref.	Pack	Box	Master
160x2"	28.5	88	213	137	1000	6	M8x60	1S.505.17G.00F	1	16	B
160x3"	36	88	213	137	1014	6	M8x60	1S.505.17I.00F	1	15	B
180x1 1/4"	24	115	265	171	2289	6	M10x80	1S.505.18E.00	1	8	B
180x1 1/2"	24	115	265	171	2292	6	M10x80	1S.505.18F.00	1	8	B
180x2"	24	115	265	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"	224	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	Gr.	N°Bolts	Bolts	Ref.	Pack
20x1/2"x1/2"	17	16	62	37.5	61	2	M6x35	1S.508.20B.00	1
25x1/2"x1/2"	18.5	18.5	69	43	53	2	M6x35	1S.508.25B.00	1
25x3/4"x3/4"	18.5	18.5	69	43	79	2	M6x35	1S.508.25C.00	1
32x1/2"x1/2"	18.5	22.5	78	45	106	2	M8x45	1S.508.32B.00	1
32x3/4"x3/4"	18.5	22.5	78	45	114	2	M8x45	1S.508.32C.00	1
32x1"x1"	18.5	22.5	91	60	154	2	M8x45	1S.508.32D.00	1
40x1/2"x1/2"	22	27	84	51	132	2	M8x45	1S.508.40B.00	1
40x3/4"x3/4"	22	27	84	51	144	2	M8x45	1S.508.40C.00	1
40x1"x1"	22	27	84	51	156	2	M8x45	1S.508.40D.00	1
50x1/2"x1/2"	22	32.5	87	53	126	2	M8x50	1S.508.50B.00	1
50x3/4"x3/4"	22	32.5	87	53	140	2	M8x50	1S.508.50C.00	1
50x1"x1"	22	32.5	87	53	154	2	M8x50	1S.508.50D.00	1
63x1/2"x1/2"	17	40	100	71	250	4	M8x50	1S.508.63B.00	1
63x3/4"x3/4"	20	40	100	71	252	4	M8x50	1S.508.63C.00	1
63x1"x1"	22	40	100	71	272	4	M8x50	1S.508.63D.00	1
63x1 1/4"x1 1/4"	24	40	100	71	292	4	M8x50	1S.508.63E.00	1
63x1 1/2"x1 1/2"	24	40	100	71	308	4	M8x50	1S.508.63F.00	1
75x1/2"x1/2"	17	44.5	170	91	320	4	M8x60	1S.508.75B.00	1
75x3/4"x3/4"	20	44.5	170	91	324	4	M8x60	1S.508.75C.00	1
75x1"x1"	22	44.5	170	91	340	4	M8x60	1S.508.75D.00	1
75x1 1/4"x1 1/4"	24	44.5	170	91	356	4	M8x60	1S.508.75E.00	1
75x1 1/2"x1 1/2"	24	44.5	170	91	364	4	M8x60	1S.508.75F.00	1
75x2"x2"	26	44.5	170	91	392	4	M8x60	1S.508.75G.00	1
90x1/2"x1/2"	17	52	137	91	362	4	M8x60	1S.508.90B.00	1
90x3/4"x3/4"	20	52	137	91	366	4	M8x60	1S.508.90C.00	1
90x1"x1"	22	52	137	91	374	4	M8x60	1S.508.90D.00	1
90x1 1/4"x1 1/4"	24	52	137	91	392	4	M8x60	1S.508.90E.00	1
90x1 1/2"x1 1/2"	24	52	137	91	398	4	M8x60	1S.508.90F.00	1
90x2"x2"	26	52	137	91	414	4	M8x60	1S.508.90G.00	1
110x1/2"x1/2"	17	65	155	98.5	408	4	M8x60	1S.508.11B.00	1
110x3/4"x3/4"	20	65	155	98.5	414	4	M8x60	1S.508.11C.00	1
110x1"x1"	22	65	155	98.5	422	4	M8x60	1S.508.11D.00	1
110x1 1/4"x1 1/4"	24	65	155	98.5	450	4	M8x60	1S.508.11E.00	1
110x1 1/2"x1 1/2"	24	65	155	98.5	466	4	M8x60	1S.508.11F.00	1
110x2"x2"	24	65	155	98.5	494	4	M8x60	1S.508.11G.00	1
110x3"x3"	33	65	159	118.5	730	4	M8x60	1S.508.11I.00	1
125x3/4"x3/4"	20	73.5	168	101	540	4	M8x60	1S.508.13C.00	1
125x1"x1"	22	73.5	168	101	553	4	M8x60	1S.508.13D.00	1
125x1 1/4"x1 1/4"	24	73.5	168	101	575	4	M8x60	1S.508.13E.00	1
125x1 1/2"x1 1/2"	24	73.5	168	101	589	4	M8x60	1S.508.13F.00	1
125x2"x2"	24	73.5	168	101	615	4	M8x60	1S.508.13G.00	1
140x1"x1"	22	80	189	134	968	6	M8x75	1S.508.15D.00	1
140x1 1/4"x1 1/4"	24	80	189	134	985	6	M8x75	1S.508.15E.00	1
140x1 1/2"x1 1/2"	24	80	189	134	995	6	M8x75	1S.508.15F.00	1
140x2"x2"	24	80	189	134	1015	6	M8x75	1S.508.15G.00	1
140x2 1/2"x2 1/2"	24	80	189	134	1070	6	M8x75	1S.508.15H.00	1
140x3"x3"	33	80	189	134	1200	6	M8x75	1S.508.15I.00	1
160x1"x1"	22	88	213	137	1045	6	M8x75	1S.508.17D.00	1
160x1 1/4"x1 1/4"	24	88	213	137	1080	6	M8x75	1S.508.17E.00	1
160x1 1/2"x1 1/2"	24	88	213	137	1098	6	M8x75	1S.508.17F.00	1

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DxGxG	L	Z	E	H	Gr.	N°Bolts	Bolts	Ref.	Pack
160x2"x2"	28.5	88	213	135	1135	6	M8x75	1S.508.17G.00	1
160x3"x3"	36	88	213	135	1120	6	M8x75	1S.508.17I.00	1
180x1 1/4"x1 1/4"	24	115	265	171	2356	6	M10x80	1S.508.18E.00	1
180x1 1/2"x1 1/2"	24	115	265	171	2380	6	M10x80	1S.508.18F.00	1
180x2"x2"	24	115	265	171	2460	6	M10x80	1S.508.18G.00	1
180x3"x3"	33	115	265	171	2660	6	M10x80	1S.508.18I.00	1
180x4"x4"	42	115	265	171	2840	6	M10x80	1S.508.18L.00	1
200x1 1/4"x1 1/4"	24	115	265	171	1910	6	M10x80	1S.508.21E.00	1
200x1 1/2"x1 1/2"	24	115	265	171	1935	6	M10x80	1S.508.21F.00	1
200x2"x2"	24	115	265	171	1980	6	M10x80	1S.508.21G.00	1
200x3"x3"	33	115	265	171	2200	6	M10x80	1S.508.21I.00	1
200x4"x4"	42	115	265	171	2380	6	M10x80	1S.508.21L.00	1
225x1 1/4"x1 1/4"	24	127.5	280	173	2110	6	M10x80	1S.508.23E.00	1
225x1 1/2"x1 1/2"	24	127.5	280	173	2130	6	M10x80	1S.508.23F.00	1
225x2"x2"	24	127.5	280	173	2195	6	M10x80	1S.508.23G.00	1
225x3"x3"	33	127.5	280	173	2420	6	M10x80	1S.508.23I.00	1
225x4"x4"	42	127.5	280	173	2600	6	M10x80	1S.508.23L.00	1
250x1 1/4"x1 1/4"	24	142	313	181	2580	6	M10x80	1S.508.26E.00	1
250x1 1/2"x1 1/2"	24	142	313	181	2600	6	M10x80	1S.508.26F.00	1
250x2"x2"	224	142	313	181	2650	6	M10x80	1S.508.26G.00	1
250x3"x3"	33	142	313	181	2860	6	M10x80	1S.508.26I.00	1
250x4"x4"	42	142	313	181	3040	6	M10x80	1S.508.26L.00	1
280x1 1/4"x1 1/2"	24	171	385	190	4050	6	M10x80	1S.508.28E.00	1
280x1 1/2"x1 1/2"	24	171	385	190	4070	6	M10x80	1S.508.28F.00	1
280x2"x2"	24	171	385	190	4120	6	M10x80	1S.508.28G.00	1
280x3"x3"	33	171	385	190	4320	6	M10x80	1S.508.28I.00	1
280x4"x4"	42	171	385	190	4500	6	M10x80	1S.508.28L.00	1
315x1 1/4"x1 1/4"	24	171	385	190	3105	6	M10x80	1S.508.33E.00	1
315x1 1/2"x1 1/2"	24	171	385	190	3120	6	M10x80	1S.508.33F.00	1
315x2"x2"	24	171	385	190	3170	6	M10x80	1S.508.33G.00	1
315x3"x3"	33	171	385	190	3400	6	M10x80	1S.508.33I.00	1
315x4"x4"	42	171	385	190	3600	6	M10x80	1S.508.33L.00	1

C A T A L O G U E

C A T A L O G O

C A T A L O G U E

K A T A L O G

C A T A L O G O



C L A M P S A D D L E S

P R E S E A S T A F F A

C O L L I E R S D E P R I S E

A N B O H R S C H E L L E N

C O L L A R I N E S D E T O M A



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