

FICHA TÉCNICA GENERAL DE ACCESORIOS PE Y MULTI/JOINT

GEORG FISCHER PIPING SYSTEMS (GF)

RESOLUCIÓN 0501

Georg Fischer certifica que los accesorios del siguiente listado son aptos para el uso de agua potable; así mismo, confirma que han sido testeados y aprobados bajo estándares internacionales *ANSI/NSF 61: 2016 Componentes de sistemas de agua potable - Efectos sobre la salud*, evaluando el rendimiento mecánico de acuerdo con el tipo de producto y norma de fabricación, que podrá el cliente encontrar en el empaque de cada referencia.

Georg Fischer cuenta con laboratorios certificados que garantizan los ensayos realizados a los accesorios para avalar el uso de estos en transporte de agua potable, confirmando que no excedan los valores máximos admisibles de las concentraciones de los elementos y compuestos químicos aluminio, antimonio, cobre, arsénico, bario, cadmio, cromo, plomo, mercurio, níquel, selenio y plata.

La información de rotulado mínimo, normas técnicas y ensayos requeridos por la Resolución 501 las podrán encontrar en la etiqueta de cada accesorio como se muestra a continuación:

Accesorios PE:

ETIQUETA DE LA BOLSA Y ACCESORIO

PAIS DE ORIGEN

Country of Origin: Switzerland

ELGEF Plus

193 131 932

d83-c20

PE100

SDR11

GASWEP

PN16

ELGEF Plus

Presión NOMINAL

Tracability

Prod. date

08/2023

Batch No.

Order No.

Tracability

Fusion Data

Terminal Size 40MM

Cooling Time

20MIN

Georg Fischer Wavin AG, 8221 Schaffhausen/Switzerland

www.gfp.com

NORMAS DE CONFORMIDAD Y CERTIFICACIONES

TIEMPOS DE FUSION Y ENFRIAMIENTO

MATERIA PRIMA Y APLICACION

FECHA DE PRODUCCION

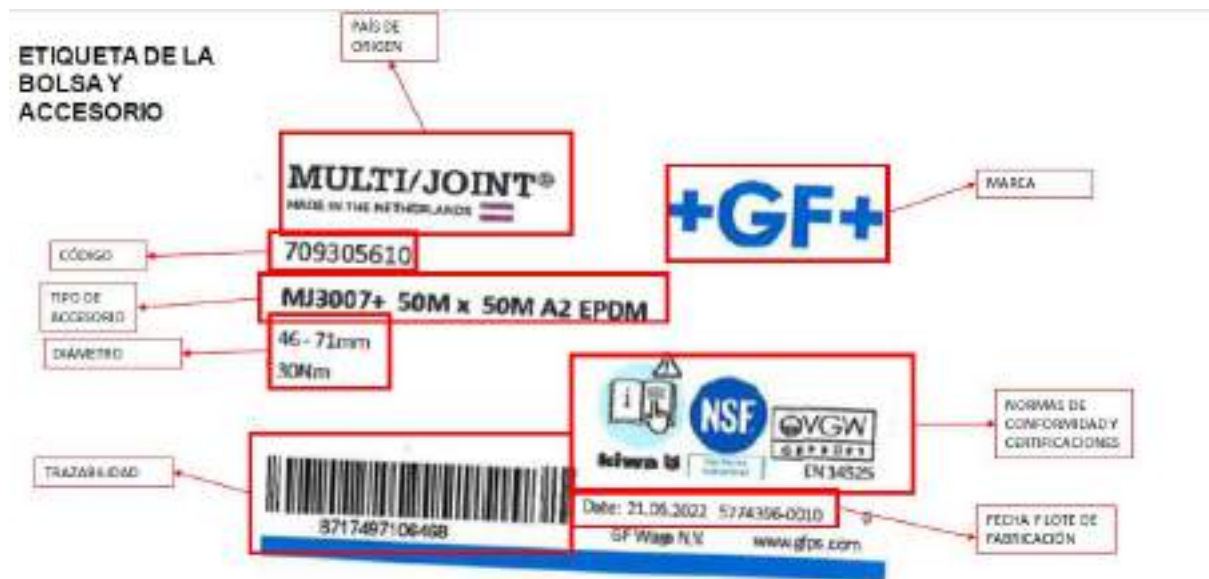
DIAMETRO

CODIGO

TIPO DE ACCESORIO

MARCA

MULTI/JOINT:



- Instrucciones de almacenamiento **accesorios PE**:

Los **accesorios PE** deben protegerse contra la humedad y la contaminación durante todo el periodo de almacenamiento. La duración máxima recomendada de almacenamiento es de diez años. Para alcanzar esta duración máxima, los **accesorios PE** deben almacenarse en su embalaje original (caja + bolsa) a una temperatura inferior a +50 °C. El periodo de almacenamiento comienza a partir de la fecha de fabricación.

El film de la bolsa de **PE** protege eficazmente los **accesorios PE** contra la luz ultravioleta. Es posible almacenarlos sin caja, pero dentro de la bolsa intacta, durante un máximo de dos años. Durante este tiempo, los accesorios pueden soldarse con total seguridad. El procesador es responsable de indicar el momento en que el accesorio, que se encuentra en la bolsa de plástico, fue retirado de la caja.

Las piezas de mayores dimensiones (>d315), que suelen ser también pesadas y voluminosas, deben almacenarse en la caja para protegerlas contra posibles daños. Las curvas sin soldadura deben protegerse de la luz solar directa. Para evitar deformaciones, no deben apilarse los palés que contengan curvas sin soldadura.

Los **accesorios PE** no deben entrar en contacto con disolventes, grasas, pinturas, silicona ni sustancias similares.

- Instrucciones de almacenamiento **MULTI/JOINT** (juntas)

Las juntas de caucho deben almacenarse a una temperatura inferior a 25 °C y, preferiblemente, inferior a 15 °C, protegerse de la luz, en particular de la luz solar intensa y de la luz artificial con un alto contenido en rayos UV. No almacenarse en una sala que contenga equipos capaces de generar ozono, como, por ejemplo, lámparas de vapor de mercurio o equipos eléctricos de alta tensión que puedan provocar chispas o descargas eléctricas silenciosas, almacenarse en condiciones de relajación, sin tensiones, compresiones ni otras deformaciones, mantenerse en condiciones de limpieza.

Para evitar daños durante el transporte, **accesorios PE y MULTI/JOINT** deben protegerse adecuadamente. Recomendamos dejar los productos en su embalaje original hasta el momento de la instalación. Si es necesario sacar cantidades más pequeñas, estas deben transportarse en una caja que las proteja de la radiación ultravioleta y la contaminación. Al



desembalar, es fundamental manipular los productos con cuidado, asegurándose de que las bolsas de plástico no sufran daños y no queden expuestas a bordes afilados o salientes, como los contactos de los enchufes. Recomendamos desembalar **accesorios PE y MULTI/JOINT** justo antes de su uso previsto. Para evitar daños, no se deben lanzar los productos. Los codos sin soldadura deben transportarse en palés.

Los **accesorios PE** son fabricados bajo las normas ISO4427 y cuentan con una vida útil de 60 años; las uniones mecánicas **MULTI/JOINT** son fabricadas bajo la norma EN 14525 y cuentan con una vida útil de 50 años. Los productos son minuciosamente inspeccionados contra defectos de fabricación; sin embargo, no siempre es posible identificar defectos ocultos, por tal motivo Georg Fischer otorga una garantía de sus productos por 1 año a partir de la fecha de compra, por defectos de fabricación y siempre y cuando el producto no haya sido modificado y/o manipulado inadecuadamente. Georg Fischer determinará con base en su propio juicio si los materiales han sido utilizados inapropiadamente o no han sido utilizados de acuerdo con los patrones y prácticas de la industria o de acuerdo con las instrucciones de la fábrica.

Especificaciones de los materiales:

Listado:

PRODUCTO	DESCRIPCION
753911606	Coupler E+ PE100 SDR11 PN16 d20
753911607	Coupler E+ PE100 SDR11 PN16 d25
753911608	Coupler E+ PE100 SDR11 PN16 d32
753911609	Coupler E+ PE100 SDR11 PN16 d40
753911610	Coupler E+ PE100 SDR11 PN16 d50
753911611	Coupler E+ PE100 SDR11 PN16 d63
753911612	Coupler E+ PE100 SDR11 PN16 d75
753911613	Coupler E+ PE100 SDR11 PN16 d90
753911614	Coupler E+ PE100 SDR11 PN16 d110
753911615	Coupler E+ PE100 SDR11 PN16 d125
753911616	Coupler E+ PE100 SDR11 PN16 d140
753911617	Coupler E+ PE100 SDR11 PN16 d160
753911618	Coupler E+ PE100 SDR11 PN16 d180
753911619	Coupler E+ PE100 SDR11 PN16 d200
753911620	Coupler E+ PE100 SDR11 PN16 d225
753911621	Coupler E+ PE100 SDR11 PN16 d250
753911622	Coupler E+ PE100 SDR11 PN16 d280
753911623	Coupler E+ PE100 SDR11 PN16 d315
753911704	Coupler E+ PE100 SDR11 PN16 d355
753911705	Coupler E+ PE100 SDR11 PN16 d400
753911706	Coupler E+ PE100 SDR11 PN16 d450
753911707	Coupler E+ PE100 SDR11 PN16 d500
753911708	Coupler E+ PE100 SDR11 PN16 d560
753911709	Coupler E+ PE100 SDR11 PN16 d630
753911710	Coupler E+ PE100 SDR11 PN16 d710
753911711	Coupler E+ PE100 SDR11 PN16 d800
753911652	Coupler PE100 SDR11 PN16 d900
753911817	Coupler E+ PE100 SDR17 PN10 d160
753911818	Coupler E+ PE100 SDR17 PN10 d180
753911819	Coupler E+ PE100 SDR17 PN10 d200
753911820	Coupler E+ PE100 SDR17 PN10 d225
753911821	Coupler E+ PE100 SDR17 PN10 d250

753911822	Coupler E+ PE100 SDR17 PN10 d280
753911823	Coupler E+ PE100 SDR17 PN10 d315
753911804	Coupler E+ PE100 SDR17 PN10 d355
753911805	Coupler E+ PE100 SDR17 PN10 d400
753911806	Coupler E+ PE100 SDR17 PN10 d450
753911807	Coupler E+ PE100 SDR17 PN10 d500
753911808	Coupler E+ PE100 SDR17 PN10 d560
753911809	Coupler E+ PE100 SDR17 PN10 d630
753911810	Coupler E+ PE100 SDR17 PN10 d710
753911811	Coupler E+ PE100 SDR17 PN10 d800
753911852	Coupler PE100 SDR17 PN10 d900
753911853	Coupler PE100 SDR17 PN10 d1000
753911854	Coupler PE100 SDR17 PN10 d1200
753911950	Coupler PE100 SDR26 PN6 d710
753911951	Coupler PE100 SDR26 PN6 d800
753911952	Coupler PE100 SDR26 PN6 d900
753911953	Coupler PE100 SDR26 PN6 d1000
753911954	Coupler PE100 SDR26 PN6 d1200
753101606	Elbow 90° E+ PE100 SDR11 PN16 d20
753101607	Elbow 90° E+ PE100 SDR11 PN16 d25
753101608	Elbow 90° E+ PE100 SDR11 PN16 d32
753101609	Elbow 90° E+ PE100 SDR11 PN16 d40
753101610	Elbow 90° E+ PE100 SDR11 PN16 d50
753101611	Elbow 90° E+ PE100 SDR11 PN16 d63
753101612	Elbow 90° E+ PE100 SDR11 d75
753101813	Elbow 90° E+ PE100 SDR11 PN16 d90
753101814	Elbow 90° E+ PE100 SDR11 PN16 d110
753101815	Elbow 90° E+ PE100 SDR11 PN16 d125
753101817	Elbow 90° E+ PE100 SDR11 PN16 d160
753101818	Elbow 90° E+ PE100 SDR11 PN16 d180
753101819	Elbow 90° E+ PE100 SDR11 PN16 d200
753101820	Elbow 90° E+ PE100 SDR11 PN16 d225
753101821	Elbow 90° E+ PE100 SDR11 PN16 d250
753151608	Elbow 45° E+ PE100 SDR11 PN16 d32
753151609	Elbow 45° E+ PE100 SDR11 PN16 d40
753151610	Elbow 45° E+ PE100 SDR11 PN16 d50
753151611	Elbow 45° E+ PE100 SDR11 PN16 d63
753151612	Elbow 45° E+ PE100 SDR11 d75
753151813	Elbow 45° E+ PE100 SDR11 PN16 d90
753151814	Elbow 45° E+ PE100 SDR11 PN16 d110
753151815	Elbow 45° E+ PE100 SDR11 PN16 d125
753151817	Elbow 45° E+ PE100 SDR11 PN16 d160
753151818	Elbow 45° E+ PE100 SDR11 PN16 d180
753151819	Elbow 45° E+ PE100 SDR11 PN16 d200
753151820	Elbow 45° E+ PE100 SDR11 PN16 d225
753151821	Elbow 45° E+ PE100 SDR11 PN16 d250
753211606	T 90° Equal E+ PE100 SDR11 PN16 d20
753211607	T 90° Equal E+ PE100 SDR11 PN16 d25
753211608	T 90° Equal E+ PE100 SDR11 PN16 d32
753211609	T 90° Equal E+ PE100 SDR11 PN16 d40
753211610	T 90° Equal E+ PE100 SDR11 PN16 d50
753211611	T 90° Equal E+ PE100 SDR11 PN16 d63
753211612	T 90° Equal E+ PE100 SDR11 d75

753201813	T 90° Equal E+ PE100 SDR11 PN16 d90
753201814	T 90° Equal E+ PE100 SDR11 PN16 d110
753201815	T 90° Equal E+ PE100 SDR11 PN16 d125
753201817	T 90° Equal E+ PE100 SDR11 PN16 d160
753201818	T 90° Equal E+ PE100 SDR11 PN16 d180
753201819	T 90° Equal E+ PE100 SDR11 PN16 d200
753201820	T 90° Equal E+ PE100 SDR11 PN16 d225
753201821	T 90° Equal E+ PE100 SDR11 PN16 d250
193281005	T 90 RedKit E+ PE100 SDR11 PN16 d40-d25
193280998	T 90 RedKit E+ PE100 SDR11 PN16 d75-d40
193280999	T 90 RedKit E+ PE100 SDR11 PN16 d90-d50
193280961	T 90 RedKit PE100 SDR11 PN16 d110-d63
193280963	T 90 RedKit PE100 SDR11 PN16 d125-d63
193280965	T 90 RedKit PE100 SDR11 PN16 d125-d110
193281032	T 90 RedKit E+ PE100 SDR11 PN16 d180-d90
193281033	T 90 RedKit PE100 SDR11 PN16 d180-d110
753211034	T90red E+ PE100 SDR11 PN16 d110-d90
753211035	T90red E+ PE100 SDR11 PN16 d125-d90
753211025	T 90° Red E+ PE100 SDR11 PN16 d160-d63
753211026	T 90° Red E+ PE100 SDR11 PN16 d160-d90
753211027	T 90° Red PE100 SDR11 PN16 d160-d110
753211059	T90red E+ PE100 SDR11 PN16 d200-d90
753211060	T90red E+ PE100 SDR11 PN16 d200-d110
753211063	T90red E+ PE100 SDR11 PN16 d200-d160
753211069	T90red E+ PE100 SDR11 PN16 d225-d90
753211070	T90red E+ PE100 SDR11 PN16 d225-d110
753211073	T90red E+ PE100 SDR11 PN16 d225-d160
753211080	T90red E+ PE100 SDR11 PN16 d250-d110
753211083	T90red E+ PE100 SDR11 PN16 d250-d160
753201606	T 90° Kit E+ PE100 SDR11 PN16 d20
753201607	T 90° Kit E+ PE100 SDR11 PN16 d25
753201608	T 90° Kit E+ PE100 SDR11 PN16 d32
193281006	T 90 RedKit E+ PE100 SDR11 PN16 d40-d32
753201609	T 90° Kit E+ PE100 SDR11 PN16 d40
193281007	T 90 RedKit E+ PE100 SDR11 PN16 d50-d32
193281008	T 90 RedKit E+ PE100 SDR11 PN16 d50-d40
753201610	T 90° Kit E+ PE100 SDR11 PN16 d50
193280997	T 90 RedKit E+ PE100 SDR11 PN16 d63-d32
193281009	T 90 RedKit E+ PE100 SDR11 PN16 d63-d40
193281010	T 90 RedKit E+ PE100 SDR11 PN16 d63-d50
753201611	T 90° Kit E+ PE100 SDR11 PN16 d63
193281011	T 90 RedKit E+ PE100 SDR11 PN16 d90-d63
753201613	T 90° Kit E+ PE100 SDR11 PN16 d90
193281012	T 90 RedKit E+ PE100 SDR11 PN16 d110-d90
753201614	T 90° Kit E+ PE100 SDR11 PN16 d110
193281013	T 90 RedKit E+ PE100 SDR11 PN16 d125-d90
753201615	T 90° Kit E+ PE100 SDR11 PN16 d125
193281030	T 90 RedKit PE100 SDR11 PN16 d160-d110
753201617	T 90° Kit E+ PE100 SDR11 PN16 d160
193281031	T 90 RedKit PE100 SDR11 PN16 d180-d125
753201618	T 90° Kit E+ PE100 SDR11 PN16 d180
753901639	Reducer E+ PE100 SDR11 PN16 d25-d20
753901640	Reducer E+ PE100 SDR11 PN16 d32-d20

753901641	Reducer E+ PE100 SDR11 PN16 d32-d25
753901644	Reducer E+ PE100 SDR11 d40-d20
753901645	Reducer E+ PE100 SDR11 d40-d25
753901646	Reducer E+ PE100 SDR11 PN16 d40-d32
753901651	Reducer E+ PE100 SDR11 PN16 d50-d32
753901652	Reducer E+ PE100 SDR11 PN16 d50-d40
753901656	Reducer E+ PE100 SDR11 PN16 d63-d32
753901657	Reducer E+ PE100 SDR11 PN16 d63-d40
753901658	Reducer E+ PE100 SDR11 PN16 d63-d50
753901831	Reducer E+ PE100 SDR11 PN16 d90-d63
753901832	Reducer E+ PE100 SDR11 d110-d63
753901833	Reducer E+ PE100 SDR11 PN16 d110-d90
753901836	Reducer E+ PE100 SDR11 d125-d90
753901839	Reducer E+ PE100 SDR11 d160-d90
753901864	Reducer E+ PE100 SDR11 d160-d110
753901865	Reducer E+ PE100 SDR11 d180-d125
753901837	Reducer E+ PE100 SDR11 PN16 d200-d160
753901838	Reducer E+ PE100 SDR11 PN16 d225-d160
753901845	Reducer E+ PE100 SDR11 PN16 d225-d200
753901840	Reducer E+ PE100 SDR11 PN16 d250-d160
753901841	Reducer E+ PE100 SDR11 PN16 d250-d200
753901842	Reducer E+ PE100 SDR11 PN16 d250-d225
193280992	Red Kit E+ PE100 SDR11 PN16 d75-d40
193280993	Red Kit E+ PE100 SDR11 PN16 d75-d50
193280994	Red Kit E+ PE100 SDR11 PN16 d75-d63
193280958	Red Kit E+ PE100 SDR11 PN16 d90-d50
193280995	Red Kit E+ PE100 SDR11 PN16 d90-d75
193280996	Red Kit E+ PE100 SDR11 PN16 d110-d75
193280953	Red Kit E+ PE100 SDR11 PN16 d125-d63
193280951	Red Kit E+ PE100 SDR11 PN16 d125-d110
193280952	Red Kit E+ PE100 SDR11 PN16 d160-d125
193280959	Red Kit E+ PE100 SDR11 PN16 d180-d110
753961606	Cap E+ PE100 SDR11 PN16 d20
753961607	Cap E+ PE100 SDR11 PN16 d25
753961608	Cap E+ PE100 SDR11 PN16 d32
753961609	Cap E+ PE100 SDR11 PN16 d40
753961610	Cap E+ PE100 SDR11 PN16 d50
753961611	Cap E+ PE100 SDR11 PN16 d63
753961617	Cap E+ PE100 SDR11 PN16 d160
753961619	Cap E+ PE100 SDR11 PN16 d200
753961620	Cap E+ PE100 SDR11 PN16 d225
753961621	Cap E+ PE100 SDR11 PN16 d250
753961712	Cap Kit E+ PE100 SDR11 PN16 d75
753961713	Cap Kit E+ PE100 SDR11 PN16 d90
753961714	Cap Kit E+ PE100 SDR11 PN16 d110
753961715	Cap Kit E+ PE100 SDR11 PN16 d125
753961716	Cap Kit E+ PE100 SDR11 PN16 d140
753961717	Cap Kit E+ PE100 SDR11 PN16 d160
753961718	Cap Kit E+ PE100 SDR11 PN16 d180
753961719	Cap Kit E+ PE100 SDR11 PN16 d200
753961720	Cap Kit E+ PE100 SDR11 PN16 d225
724920256	AdaptSocket IG PE100 SDR11 PN16 d20-1/2"
724920257	AdaptSocket IG PE100 SDR11 PN16 d25-3/4"

724920258	AdaptSocket IG PE100 SDR11 PN16 d32-1"
724920259	AdaptSocket PE100 SDR11 PN16 d40-1 1/4" fem
724920260	AdaptSocket PE100 SDR11 PN16 d50-1 1/2" fem
724920261	AdaptSocket IG PE100 SDR11 PN16 d63-2"
724920756	AdaptSocket AG PE100 SDR11 PN16 d20-1/2"
724920757	AdaptSocket AG PE100 SDR11 PN16 d25-3/4"
724920758	AdaptSocket AG PE100 SDR11 PN16 d32-1"
724920759	AdaptSocket PE100 SDR11 PN16 d40-1 1/4" male
724920772	AdaptSocket PE100 SDR11 PN16 d40-1 1/2"
724920760	AdaptSocket PE100 SDR11 PN16 d50-1 1/2" male
724920771	AdaptSocket PE100 SDR11 PN16 d63-1 1/2"
724920761	AdaptSocket AG PE100 SDR11 PN16 d63-2"
720910007	AdaptSocket PE100 SDR11 PN16 d25-3/4"
720910008	AdaptSocket UEWM PE100 SDR11 PN16 d32-1"
720910010	AdaptSocket PE100 SDR11 PN16 d50-1 1/2" Loose nut G
720910021	AdaptSocket UEWM PE100 SDR11 PN16 d63-1"
720910011	AdaptSocket UEWM PE100 SDR11 PN16 d63-2"
720920756	AdaptSocket AG PE100 SDR11 PN16 d20-1/2"
720920754	AdaptSocket AG PE100 SDR11 PN16 d20-1"
720920757	AdaptSocket AG PE100 SDR11 PN16 d25-3/4"
720920763	AdaptSocket AG PE100 SDR11 PN16 d25-1"
720920764	AdaptSocket AG PE100 SDR11 PN16 d32-1/2"
720920765	AdaptSocket AG PE100 SDR11 PN16 d32-3/4"
720920758	AdaptSocket AG PE100 SDR11 PN16 d32-1"
720920766	AdaptSocket PE100 SDR11 PN16 d32-1 1/4"
720920767	AdaptSocket PE100 SDR11 PN16 d32-1 1/2"
720920768	AdaptSocket AG PE100 SDR11 PN16 d32-2"
720920771	AdaptSocket AG PE100 SDR11 PN16 d40-1"
720920759	AdaptSocket PE100 SDR11 PN16 d40-1 1/4" male rosc
720920772	AdaptSocket PE100 SDR11 PN16 d40-1 1/2"
720920773	AdaptSocket AG PE100 SDR11 PN16 d40-2"
720920776	AdaptSocket AG PE100 SDR11 PN16 d50-1"
720920777	AdaptSocket PE100 SDR11 PN16 d50-1 1/4"
720920760	AdaptSocket PE100 SDR11 PN16 d50-1 1/2" male rosc
720920778	AdaptSocket AG PE100 SDR11 PN16 d50-2"
720920781	AdaptSocket AG PE100 SDR11 PN16 d63-1"
720920782	AdaptSocket PE100 SDR11 PN16 d63-1 1/4" male rosc
720920783	AdaptSocket PE100 SDR11 PN16 d63-1 1/2" male rosc
720920761	AdaptSocket AG PE100 SDR11 PN16 d63-2"
720920258	AdaptSocket IG PE100 SDR11 PN16 d32-1"
720920259	AdaptSocket PE100 SDR11 PN16 d40-1 1/4" fem rosc
720920260	AdaptSocket PE100 SDR11 PN16 d50-1 1/2" fem rosc
720920281	AdaptSocket IG PE100 SDR11 PN16 d63-1"
720920282	AdaptSocket PE100 SDR11 PN16 d63-1 1/4" fem rosc
720920283	AdaptSocket PE100 SDR11 PN16 d63-1 1/2" fem rosc
720920261	AdaptSocket IG PE100 SDR11 PN16 d63-2"
724100256	Tra Elbow90 IG PE100 SDR11 PN16 d20-1/2"
724100257	Tra Elbow90 IG PE100 SDR11 PN16 d25-3/4"
724100258	Tra Elbow90 IG PE100 SDR11 PN16 d32-1"
724100259	Tra Elbow90 PE100 SDR11 PN16 d40-1 1/4" fem rosc
724100260	Tra Elbow90 PE100 SDR11 PN16 d50-1 1/2" fem rosc
724100261	Tra Elbow90 IG PE100 SDR11 PN16 d63-2"
724100756	Tra Elbow90 AG PE100 SDR11 PN16 d20-1/2"

724100757	Tra Elbow90 AG PE100 SDR11 PN16 d25-3/4"
724100758	Tra Elbow90 AG PE100 SDR11 PN16 d32-1"
724100759	Tra Elbow90 PE100 SDR11 PN16 d40-1 1/4" male rosc
724100772	Tra Elbow90 PE100 SDR11 PN16 d40-1 1/2"
724100760	Tra Elbow90 PE100 SDR11 PN16 d50-1 1/2" male rosc
724100771	Tra Elbow90 PE100 SDR11 PN16 d63-1 1/2"
724100761	Tra Elbow90 AG PE100 SDR11 PN16 d63-2"
720100756	Tra Elbow90 AG PE100 SDR11 PN16 d20-1/2"
720100757	Tra Elbow90 AG PE100 SDR11 PN16 d25-3/4"
720100758	Tra Elbow90 AG PE100 SDR11 PN16 d32-1"
720100766	Tra Elbow90 PE100 SDR11 PN16 d32-1 1/4" male rosc
720100767	Tra Elbow90 PE100 SDR11 PN16 d32-1 1/2"
720100771	Tra Elbow90 AG PE100 SDR11 PN16 d40-1"
720100759	Tra Elbow90 PE100 SDR11 PN16 d40-1 1/4" male rosc
720100772	Tra Elbow90 PE100 SDR11 PN16 d40-1 1/2"
720100776	Tra Elbow90 AG PE100 SDR11 PN16 d50-1"
720100777	Tra Elbow90 PE100 SDR11 PN16 d50-1 1/4"
720100760	Tra Elbow90 PE100 SDR11 PN16 d50-1 1/2" male rosc
720100782	Tra Elbow90 PE100 SDR11 PN16 d63-1 1/4" male rosc
720100783	Tra Elbow90 PE100 SDR11 PN16 d63-1 1/2" male rosc
720100761	Tra Elbow90 AG PE100 SDR11 PN16 d63-2"
720100258	Tra Elbow90 IG PE100 SDR11 PN16 d32-1"
720100259	Tra Elbow90 PE100 SDR11 PN16 d40-1 1/4"
720100260	Tra Elbow90 PE100 SDR11 PN16 d50-1 1/2" fem rosc
720100281	Tra Elbow90 IG PE100 SDR11 PN16 d63-1"
720100282	Tra Elbow90 PE100 SDR11 PN16 d63-1 1/4"
720100283	Tra Elbow90 PE100 SDR11 PN16 d63-1 1/2" fem rosc
720100261	Tra Elbow90 IG PE100 SDR11 PN16 d63-2"
720100007	Tra Elbow90 PE100 SDR11 PN16 d25-3/4"
720100008	Tra Elbow90 UEWM PE100 SDR11 PN16 d32-1"
720100018	Tra Elbow90 PE100 SDR11 PN16 d32-1 1/4"
720100010	Tra Elbow90 PE100 SDR11 PN16 d50-1 1/2"
720100021	Tra Elbow90 UEWM PE100 SDR11 PN16 d63-1"
720100011	Tra Elbow90 UEWM PE100 SDR11 PN16 d63-2"
775641502	Tra Fitting PE100 SDR11 PN10/16 d20-1/2"
775641507	Tra Fitting PE100 SDR11 PN10/16 d25-3/4"
775641510	Tra Fitting PE100 SDR11 PN10/16 d32-1"
775641514	Tra Fitting PE100 SDR11 d40-1 1/4"
775641518	Tra Fitting PE100 SDR11 d50-1 1/2"
775641524	Tra Fitting PE100 SDR11 PN10/16 d63-2"
775641632	Tra Fitting PE100 SDR11 d75-2 1/2"
775641636	Tra Fitting PE100 SDR11 PN10/16 d90-3"
775641640	Tra Fitting PE100 SDR11 PN10/16 d110-3"
775641641	Tra Fitting PE100 SDR11 PN10/16 d110-4"
775641655	Tra Fitting PE100 SDR11 PN10/16 d160-6"
775641659	Tra Fitting PE100 SDR11 PN10/16 d180-6"
775642664	Tra Fitting PE100 SDR11 PN10/16 d200-8"
775642669	Tra Fitting PE100 SDR11 PN10/16 d225-8"
775642665	Tra Fitting PE100 SDR11 PN10/16 d250-8"
775642666	Tra Fitting PE100 SDR11 PN10/16 d250-10"
775642673	Tra Fitting PE100 SDR11 PN10/16 d280-10"
775642672	Tra Fitting PE100 SDR11 PN10/16 d315-12"
775642675	Tra Fitting PE100 SDR11 PN10/16 d355-12"

775642678	Tra Fitting PE100 SDR11 PN10/16 d400-16"
193137037	Bra Saddle E+ PE100 SDR11 PN16 d63-d63
193137047	Bra Saddle E+ PE100 SDR11 PN16 d75-d63
193137057	Bra Saddle E+ PE100 SDR11 PN16 d90-d63
193137067	Bra Saddle E+ PE100 SDR11 PN16 d110-d63
193137077	Bra Saddle E+ PE100 SDR11 PN16 d125-d63
193137087	Bra Saddle E+ PE100 SDR11 PN16 d140-d63
193137097	Bra Saddle E+ PE100 SDR11 PN16 d160-d63
193137107	Bra Saddle E+ PE100 SDR11 PN16 d180-d63
193137117	Bra Saddle E+ PE100 SDR11 PN16 d200-d63
193137127	Bra Saddle E+ PE100 SDR11 PN16 d225-d63
193137137	Bra Saddle E+ PE100 SDR11 PN16 d250-d63
193131147	Bra Saddle E+ PE100 SDR11 PN16 d280-d63
193131157	Bra Saddle E+ PE100 SDR11 PN16 d315-d63
193131177	Bra Saddle E+ PE100 SDR11 PN16 d400-d63
193280358	Tapping Tee E+ PE100 SDR11 PN16 d63-d20
193280359	Tapping Tee E+ PE100 SDR11 PN16 d63-d25
193280184	Tapping Tee E+ PE100 SDR11 PN16 d63-d32
193280360	Tapping Tee E+ PE100 SDR11 PN16 d63-d40
193280185	Tapping Tee E+ PE100 SDR11 PN16 d63-d63
193280711	Tapping Tee E+ PE100 SDR11 PN16 d63-d63 kit d250-315mm
193280290	Tapping Tee E+ PE100 SDR11 PN16 d63-d63 kit d110-315mm
193280300	Tap Tee Cap E+ PE100 SDR11 PN16 d63-d32
193280301	Tap Tee Cap E+ PE100 SDR11 PN16 d63-d63
193280153	Cap E+ PE100 SDR11 PN16 d55
193280154	Cap E+ PE100 SDR11 PN16 d68
193281605	Tap Valve T E+ PE100 SDR11 PN16 d63-d32
193281606	Tap Valve T E+ PE100 SDR11 PN16 d63-d63
193280274	Sto Adaptor E+ PE SDR11 d63-21/2 d50
193280294	Sto Adaptor E+ PE100 SDR11 d63-2 1/2"
193280279	Sto Adaptor E+ PE100 SDR11 d63-23/4
193280272	SpigotCut E+ PE100 SDR11 PN16 d63-d32
193280273	SpigotCut E+ PE100 SDR11 PN16 d63-d63
720920706	Tra Adapter AG PE100 SDR11 PN16 d20-1/2"
720920707	Tra Adapter AG PE100 SDR11 PN16 d25-3/4"
720920708	Tra Adapter AG PE100 SDR11 PN16 d32-1"
720920718	Tra Adapter PE100 SDR11 PN16 d32-1 1/4" male rosc
720920728	Tra Adapter PE100 SDR11 PN16 d32-1 1/2"
720920719	Tra Adapter AG PE100 SDR11 PN16 d40-1"
720920709	Tra Adapter PE100 SDR11 PN16 d40-1 1/4" male rosc
720920729	Tra Adapter PE100 SDR11 PN16 d40-1 1/2"
720920720	Tra Adapter AG PE100 SDR11 PN16 d50-1"
720920730	Tra Adapter PE100 SDR11 PN16 d50-1 1/4"
720920710	Tra Adapter PE100 SDR11 PN16 d50-1 1/2" male rosc
720920721	Tra Adapter PE100 SDR11 PN16 d63-1 1/4" male rosc
720920731	Tra Adapter PE100 SDR11 PN16 d63-1 1/2" male rosc
720920711	Tra Adapter AG PE100 SDR11 PN16 d63-2"
720920208	Tra Adapter IG PE100 SDR11 PN16 d32-1"
720920209	Tra Adapter PE100 SDR11 PN16 d40-1 1/4" fem rosc
720920210	Tra Adapter PE100 SDR11 PN16 d50-1 1/2" fem rosc
720920221	Tra Adapter IG PE100 SDR11 PN16 d63-1"
720920231	Tra Adapter PE100 SDR11 PN16 d63-1 1/4"
720920241	Tra Adapter PE100 SDR11 PN16 d63-1 1/2" fem rosc

720920211	Tra Adapter IG PE100 SDR11 PN16 d63-2"
720920007	Tra Adapter PE100 SDR11 PN16 d25-3/4"
720920008	Tra Adapter UEWM PE100 SDR11 PN16 d32-1"
720920018	Tra Adapter PE100 SDR11 PN16 d32-1 1/4"
720920010	Tra Adapter PE100 SDR11 PN16 d50-1 1/2" Loose nut G
720920021	Tra Adapter UEWM PE100 SDR11 PN16 d63-1"
720920011	Tra Adapter UEWM PE100 SDR11 PN16 d63-2"
724920706	Tra Adapter AG PE100 SDR11 PN16 d20-1/2"
724920707	Tra Adapter AG PE100 SDR11 PN16 d25-3/4"
724920708	Tra Adapter AG PE100 SDR11 PN16 d32-1"
724920709	Tra Adapter PE100 SDR11 PN16 d40-1 1/4" male rosc
724920719	Tra Adapter PE100 SDR11 PN16 d40-1 1/2"
724920710	Tra Adapter PE100 SDR11 PN16 d50-1 1/2" male rosc
724920721	Tra Adapter PE100 SDR11 PN16 d63-1 1/2"
724920711	Tra Adapter AG PE100 SDR11 PN16 d63-2"
724920206	Tra Adapter IG PE100 SDR11 PN16 d20-1/2"
724920207	Tra Adapter IG PE100 SDR11 PN16 d25-3/4"
724920208	Tra Adapter IG PE100 SDR11 PN16 d32-1"
724920209	Tra Adapter PE100 SDR11 PN16 d40-1 1/4"
724920210	Tra Adapter PE100 SDR11 PN16 d50-1 1/2"
724920211	Tra Adapter IG PE100 SDR11 PN16 d63-2"
193281617	ThreadedEnd IG PE100 SDR11 PN16 d63-1/2"
173281925	ThreadedEnd PE80 SDR11 PN12.5 d63-1 1/2"
193130037	Rep Saddle E+ PE100 SDR11 PN16 d63-d63
193130047	Rep Saddle E+ PE100 SDR11 PN16 d75-d63
193130057	Rep Saddle E+ PE100 SDR11 PN16 d90-d63
193130067	Rep Saddle E+ PE100 SDR11 PN16 d110-d63
193130077	Rep Saddle E+ PE100 SDR11 PN16 d125-d63
193130087	Rep Saddle E+ PE100 SDR11 PN16 d140-d63
193130097	Rep Saddle E+ PE100 SDR11 PN16 d160-d63
193130107	Rep Saddle E+ PE100 SDR11 PN16 d180-d63
193130117	Rep Saddle E+ PE100 SDR11 PN16 d200-d63
193130127	Rep Saddle E+ PE100 SDR11 PN16 d225-d63
193130137	Rep Saddle E+ PE100 SDR11 PN16 d250-d63
193130147	Rep Saddle E+ PE100 SDR11 PN16 d280-d63
193130157	Rep Saddle E+ PE100 SDR11 PN16 d315-d63
193130177	Rep Saddle E+ PE100 SDR11 PN16 d400-d63
193149237	Sto Saddle E+ PE100 SDR11 PN16 d63-23/4
193149247	Sto Saddle E+ PE100 SDR11 PN16 d75-23/4
193149257	Sto Saddle E+ PE100 SDR11 PN16 d90-23/4
193149267	Sto Saddle PE100 SDR11 PN16 d110-23/4
193149277	Sto Saddle PE100 SDR11 PN16 d125-23/4
193149287	Sto Saddle PE100 SDR11 PN16 d140-23/4
193149297	Sto Saddle PE100 SDR11 PN16 d160-23/4
193149307	Sto Saddle PE100 SDR11 PN16 d180-23/4
193149317	Sto Saddle PE100 SDR11 PN16 d200-23/4
193149327	Sto Saddle PE100 SDR11 PN16 d225-23/4
193149337	Sto Saddle PE100 SDR11 PN16 d250-23/4
193149347	Sto Saddle PE100 SDR11 PN16 d280-23/4
193149357	Sto Saddle PE100 SDR11 PN16 d315-23/4
193149377	Sto Saddle PE100 SDR11 PN16 d400-23/4
193149437	Sto Saddle E+ PE100 SDR11 PN16 d63-21/2
193149447	Sto Saddle E+ PE100 SDR11 PN16 d75-21/2

193149457	Sto Saddle E+ PE100 SDR11 PN16 d90-21/2
193149467	Sto Saddle PE100 SDR11 PN16 d110-21/2
193149477	Sto Saddle PE100 SDR11 PN16 d125-21/2
193149487	Sto Saddle PE100 SDR11 PN16 d140-21/2
193149497	Sto Saddle PE100 SDR11 PN16 d160-21/2
193149507	Sto Saddle PE100 SDR11 PN16 d180-21/2
193149517	Sto Saddle PE100 SDR11 PN16 d200-21/2
193149527	Sto Saddle PE100 SDR11 PN16 d225-2 1/2"
193149537	Sto Saddle PE100 SDR11 PN16 d250-21/2
193149547	Sto Saddle PE100 SDR11 PN16 d280-21/2
193149557	Sto Saddle PE100 SDR11 PN16 d315-21/2
193149577	Sto Saddle PE100 SDR11 PN16 d400-2 1/2"
193131932	Tap Sad MB E+ PE100 SDR11 PN16 d63-d20
193131933	Tap Sad MB E+ PE100 SDR11 PN16 d63-d25
193131952	Tap Sad MB E+ PE100 SDR11 PN16 d90-d20
193131953	Tap Sad MB E+ PE100 SDR11 PN16 d90-d25
193131954	Tap Sad MB E+ PE100 SDR11 PN16 d90-d32
193131957	Tap Sad MB E+ PE100 SDR11 PN16 d90-d63
193131962	Tap Sad MB E+ PE100 SDR11 PN16 d110-d20
193131963	Tap Sad MB E+ PE100 SDR11 PN16 d110-d25
193131964	Tap Sad MB E+ PE100 SDR11 PN16 d110-d32
193131967	Tap Sad MB E+ PE100 SDR11 PN16 d110-d63
193131972	Tap Sad MB E+ PE100 SDR11 PN16 d125-d20
193131973	Tap Sad MB E+ PE100 SDR11 PN16 d125-d25
193131974	Tap Sad MB E+ PE100 SDR11 PN16 d125-d32
193131977	Tap Sad MB E+ PE100 SDR11 PN16 d125-d63
193131992	Tap Sad MB E+ PE100 SDR11 PN16 d160-d20
193131993	Tap Sad MB E+ PE100 SDR11 PN16 d160-d25
193131994	Tap Sad MB E+ PE100 SDR11 PN16 d160-d32
193131997	Tap Sad MB E+ PE100 SDR11 PN16 d160-d63
193281459	Tap Sad MB E+ PE100 SDR11 PN16 d32-d20
193131412	Tap Sad MB E+ PE100 SDR11 PN16 d40-d20
193131413	Tap Sad MB E+ PE100 SDR11 PN16 d40-d25
193131414	Tap Sad MB E+ PE100 SDR11 PN16 d40-d32
193131422	Tap Sad MB E+ PE100 SDR11 PN16 d50-d20
193131423	Tap Sad MB E+ PE100 SDR11 PN16 d50-d25
193131424	Tap Sad MB E+ PE100 SDR11 PN16 d50-d32
193131934	Tap Sad MB E+ PE100 SDR11 PN16 d63-d32
193132412	Tap MB Kit E+ PE100 SDR11 PN16 d40-d20
193132413	Tap MB Kit E+ PE100 SDR11 PN16 d40-d25
193132414	Tap MB Kit E+ PE100 SDR11 PN16 d40-d32
193132422	Tap MB Kit E+ PE100 SDR11 PN16 d50-d20
193132423	Tap MB Kit E+ PE100 SDR11 PN16 d50-d25
193132424	Tap MB Kit E+ PE100 SDR11 PN16 d50-d32
193132435	Tap MB Kit E+ PE100 SDR11 PN16 d63-d40
193132402	Tap Sad Kit E+ PE100 SDR11 PN16 d63-d20
193132403	Tap Sad Kit E+ PE100 SDR11 PN16 d63-d25
193132404	Tap Sad Kit E+ PE100 SDR11 PN16 d63-d32
193132405	Tap Sad Kit E+ PE100 SDR11 PN16 d63-d40
193132436	Tap Sad Kit E+ PE100 SDR11 PN16 d63-d50
193132437	Tap Sad Kit E+ PE100 SDR11 PN16 d63-d63
193132442	Tap Sad Kit E+ PE100 SDR11 PN16 d75-d20
193132443	Tap Sad Kit E+ PE100 SDR11 PN16 d75-d25

193132444	Tap Sad Kit E+ PE100 SDR11 PN16 d75-d32
193132445	Tap Sad Kit E+ PE100 SDR11 PN16 d75-d40
193132446	Tap Sad Kit E+ PE100 SDR11 PN16 d75-d50
193132447	Tap Sad Kit E+ PE100 SDR11 PN16 d75-d63
193132452	Tap Sad Kit E+ PE100 SDR11 PN16 d90-d20
193132453	Tap Sad Kit E+ PE100 SDR11 PN16 d90-d25
193132454	Tap Sad Kit E+ PE100 SDR11 PN16 d90-d32
193132455	Tap Sad Kit E+ PE100 SDR11 PN16 d90-d40
193132456	Tap Sad Kit E+ PE100 SDR11 PN16 d90-d50
193132457	Tap Sad Kit E+ PE100 SDR11 PN16 d90-d63
193132462	Tap Sad Kit E+ PE100 SDR11 PN16 d110-d20
193132463	Tap Sad Kit E+ PE100 SDR11 PN16 d110-d25
193132464	Tap Sad Kit E+ PE100 SDR11 PN16 d110-d32
193132465	Tap Sad Kit E+ PE100 SDR11 PN16 d110-d40
193132466	Tap Sad Kit E+ PE100 SDR11 PN16 d110-d50
193132467	Tap Sad Kit E+ PE100 SDR11 PN16 d110-d63
193132472	Tap Sad Kit E+ PE100 SDR11 PN16 d125-d20
193132473	Tap Sad Kit E+ PE100 SDR11 PN16 d125-d25
193132474	Tap Sad Kit E+ PE100 SDR11 PN16 d125-d32
193132475	Tap Sad Kit E+ PE100 SDR11 PN16 d125-d40
193132476	Tap Sad Kit E+ PE100 SDR11 PN16 d125-d50
193132477	Tap Sad Kit E+ PE100 SDR11 PN16 d125-d63
193132482	Tap Sad Kit E+ PE100 SDR11 PN16 d140-d20
193132483	Tap Sad Kit E+ PE100 SDR11 PN16 d140-d25
193132484	Tap Sad Kit E+ PE100 SDR11 PN16 d140-d32
193132485	Tap Sad Kit E+ PE100 SDR11 PN16 d140-d40
193132486	Tap Sad Kit E+ PE100 SDR11 PN16 d140-d50
193132487	Tap Sad Kit E+ PE100 SDR11 PN16 d140-d63
193132492	Tap Sad Kit E+ PE100 SDR11 PN16 d160-d20
193132493	Tap Sad Kit E+ PE100 SDR11 PN16 d160-d25
193132494	Tap Sad Kit E+ PE100 SDR11 PN16 d160-d32
193132495	Tap Sad Kit E+ PE100 SDR11 PN16 d160-d40
193132496	Tap Sad Kit E+ PE100 SDR11 PN16 d160-d50
193132497	Tap Sad Kit E+ PE100 SDR11 PN16 d160-d63
193132502	Tap Sad Kit E+ PE100 SDR11 PN16 d180-d20
193132503	Tap Sad Kit E+ PE100 SDR11 PN16 d180-d25
193132504	Tap Sad Kit E+ PE100 SDR11 PN16 d180-d32
193132505	Tap Sad Kit E+ PE100 SDR11 PN16 d180-d40
193132506	Tap Sad Kit E+ PE100 SDR11 PN16 d180-d50
193132507	Tap Sad Kit E+ PE100 SDR11 PN16 d180-d63
193132512	Tap Sad Kit E+ PE100 SDR11 PN16 d200-d20
193132513	Tap Sad Kit E+ PE100 SDR11 PN16 d200-d25
193132514	Tap Sad Kit E+ PE100 SDR11 PN16 d200-d32
193132515	Tap Sad Kit E+ PE100 SDR11 PN16 d200-d40
193132516	Tap Sad Kit E+ PE100 SDR11 PN16 d200-d50
193132517	Tap Sad Kit E+ PE100 SDR11 PN16 d200-d63
193132522	Tap Sad Kit E+ PE100 SDR11 PN16 d225-d20
193132523	Tap Sad Kit E+ PE100 SDR11 PN16 d225-d25
193132524	Tap Sad Kit E+ PE100 SDR11 PN16 d225-d32
193132525	Tap Sad Kit E+ PE100 SDR11 PN16 d225-d40
193132526	Tap Sad Kit E+ PE100 SDR11 PN16 d225-d50
193132527	Tap Sad Kit E+ PE100 SDR11 PN16 d225-d63
193132532	Tap Sad Kit E+ PE100 SDR11 PN16 d250-d20

193132533	Tap Sad Kit E+ PE100 SDR11 PN16 d250-d25
193132534	Tap Sad Kit E+ PE100 SDR11 PN16 d250-d32
193132535	Tap Sad Kit E+ PE100 SDR11 PN16 d250-d40
193132536	Tap Sad Kit E+ PE100 SDR11 PN16 d250-d50
193132537	Tap Sad Kit E+ PE100 SDR11 PN16 d250-d63
193132544	Tap Sad Kit E+ PE100 SDR11 PN16 d280-d32
193132545	Tap Sad Kit E+ PE100 SDR11 PN16 d280-d40
193132546	Tap Sad Kit E+ PE100 SDR11 PN16 d280-d50
193132547	Tap Sad Kit E+ PE100 SDR11 PN16 d280-d63
193132554	Tap Sad Kit E+ PE100 SDR11 PN16 d315-d32
193132555	Tap Sad Kit E+ PE100 SDR11 PN16 d315-d40
193132556	Tap Sad Kit E+ PE100 SDR11 PN16 d315-d50
193132557	Tap Sad Kit E+ PE100 SDR11 PN16 d315-d63
193131402	Tap Saddle E+ PE100 SDR11 PN16 d63-d20
193131403	Tap Saddle E+ PE100 SDR11 PN16 d63-d25
193131404	Tap Saddle E+ PE100 SDR11 PN16 d63-d32
193131405	Tap Saddle E+ PE100 SDR11 PN16 d63-d40
193131437	Tap Saddle E+ PE100 SDR11 PN16 d63-d63
193131442	Tap Saddle E+ PE100 SDR11 PN16 d75-d20
193131443	Tap Saddle E+ PE100 SDR11 PN16 d75-d25
193131444	Tap Saddle E+ PE100 SDR11 PN16 d75-d32
193131445	Tap Saddle E+ PE100 SDR11 PN16 d75-d40
193131447	Tap Saddle E+ PE100 SDR11 PN16 d75-d63
193131452	Tap Saddle E+ PE100 SDR11 PN16 d90-d20
193131453	Tap Saddle E+ PE100 SDR11 PN16 d90-d25
193131454	Tap Saddle E+ PE100 SDR11 PN16 d90-d32
193131455	Tap Saddle E+ PE100 SDR11 PN16 d90-d40
193131457	Tap Saddle E+ PE100 SDR11 PN16 d90-d63
193131462	Tap Saddle E+ PE100 SDR11 PN16 d110-d20
193131463	Tap Saddle E+ PE100 SDR11 PN16 d110-d25
193131464	Tap Saddle E+ PE100 SDR11 PN16 d110-d32
193131465	Tap Saddle E+ PE100 SDR11 PN16 d110-d40
193131467	Tap Saddle E+ PE100 SDR11 PN16 d110-d63
193131472	Tap Saddle E+ PE100 SDR11 PN16 d125-d20
193131473	Tap Saddle E+ PE100 SDR11 PN16 d125-d25
193131474	Tap Saddle E+ PE100 SDR11 PN16 d125-d32
193131475	Tap Saddle E+ PE100 SDR11 PN16 d125-d40
193131477	Tap Saddle E+ PE100 SDR11 PN16 d125-d63
193131482	Tap Saddle E+ PE100 SDR11 PN16 d140-d20
193131483	Tap Saddle E+ PE100 SDR11 PN16 d140-d25
193131484	Tap Saddle E+ PE100 SDR11 PN16 d140-d32
193131485	Tap Saddle E+ PE100 SDR11 PN16 d140-d40
193131487	Tap Saddle E+ PE100 SDR11 PN16 d140-d63
193131492	Tap Saddle E+ PE100 SDR11 PN16 d160-d20
193131493	Tap Saddle E+ PE100 SDR11 PN16 d160-d25
193131494	Tap Saddle E+ PE100 SDR11 PN16 d160-d32
193131495	Tap Saddle E+ PE100 SDR11 PN16 d160-d40
193131497	Tap Saddle E+ PE100 SDR11 PN16 d160-d63
193131502	Tap Saddle E+ PE100 SDR11 PN16 d180-d20
193131503	Tap Saddle E+ PE100 SDR11 PN16 d180-d25
193131504	Tap Saddle E+ PE100 SDR11 PN16 d180-d32
193131505	Tap Saddle E+ PE100 SDR11 PN16 d180-d40
193131507	Tap Saddle E+ PE100 SDR11 PN16 d180-d63

193131512	Tap Saddle E+ PE100 SDR11 PN16 d200-d20
193131515	Tap Saddle E+ PE100 SDR11 PN16 d200-d40
193131514	Tap Saddle E+ PE100 SDR11 PN16 d200-d32
193131513	Tap Saddle E+ PE100 SDR11 PN16 d200-d25
193131517	Tap Saddle E+ PE100 SDR11 PN16 d200-d63
193131522	Tap Saddle E+ PE100 SDR11 PN16 d225-d20
193131523	Tap Saddle E+ PE100 SDR11 PN16 d225-d25
193131524	Tap Saddle E+ PE100 SDR11 PN16 d225-d32
193131525	Tap Saddle E+ PE100 SDR11 PN16 d225-d40
193131527	Tap Saddle E+ PE100 SDR11 PN16 d225-d63
193131532	Tap Saddle E+ PE100 SDR11 PN16 d250-d20
193131533	Tap Saddle E+ PE100 SDR11 PN16 d250-d25
193131534	Tap Saddle E+ PE100 SDR11 PN16 d250-d32
193131535	Tap Saddle E+ PE100 SDR11 PN16 d250-d40
193131537	Tap Saddle E+ PE100 SDR11 PN16 d250-d63
193131547	Tap Saddle E+ PE100 SDR11 PN16 d280-d63
193131557	Tap Saddle E+ PE100 SDR11 PN16 d315-d63 kit
193131577	Tap Saddle E+ PE100 SDR11 PN16 d400-d63 kit
193131867	Tap Saddle E+ PE100 SDR11 PN16 d315-d63
193131877	Tap Saddle E+ PE100 SDR11 PN16 d400-d63
193131234	Spig Saddle E+ PE100 SDR11 PN16 d63-d32 with cutter
193131237	Spig Saddle E+ PE100 SDR11 PN16 d63-d63 with cutter
193131244	Spig Saddle E+ PE100 SDR11 PN16 d75-d32 with cutter
193131247	Spig Saddle E+ PE100 SDR11 PN16 d75-d63 with cutter
193131254	Spig Saddle E+ PE100 SDR11 PN16 d90-d32 with cutter
193131257	Spig Saddle E+ PE100 SDR11 PN16 d90-d63 with cutter
193131264	Spig Saddle E+ PE100 SDR11 PN16 d110-d32 with cutter
193131267	Spig Saddle E+ PE100 SDR11 PN16 d110-d63 with cutter
193131274	Spig Saddle E+ PE100 SDR11 PN16 d125-d32 with cutter
193131277	Spig Saddle E+ PE100 SDR11 PN16 d125-d63 with cutter
193131284	Spig Saddle E+ PE100 SDR11 PN16 d140-d32 with cutter
193131287	Spig Saddle E+ PE100 SDR11 PN16 d140-d63 with cutter
193131294	Spig Saddle E+ PE100 SDR11 PN16 d160-d32 with cutter
193131297	Spig Saddle E+ PE100 SDR11 PN16 d160-d63 with cutter
193131304	Spig Saddle E+ PE100 SDR11 PN16 d180-d32 with cutter
193131307	Spig Saddle E+ PE100 SDR11 PN16 d180-d63 with cutter
193131314	Spig Saddle E+ PE100 SDR11 PN16 d200-d32 with cutter
193131317	Spig Saddle E+ PE100 SDR11 PN16 d200-d63 with cutter
193131324	Spig Saddle E+ PE100 SDR11 PN16 d225-d32 with cutter
193131327	Spig Saddle E+ PE100 SDR11 PN16 d225-d63 with cutter
193131334	Spig Saddle E+ PE100 SDR11 PN16 d250-d32 with cutter
193131337	Spig Saddle E+ PE100 SDR11 PN16 d250-d63 with cutter
193131347	Spig Saddle E+ PE100 SDR11 PN16 d280-d63 with cutter
193131357	Spig Saddle E+ PE100 SDR11 PN16 d315-d63 with cutter
193131377	Spig Saddle E+ PE100 SDR11 PN16 d400-d63 with cutter
193130234	Spig Saddle E+ PE100 SDR11 PN16 d63-d32
193130237	Spig Saddle E+ PE100 SDR11 PN16 d63-d63
193130244	Spig Saddle E+ PE100 SDR11 PN16 d75-d32
193130247	Spig Saddle E+ PE100 SDR11 PN16 d75-d63
193130254	Spig Saddle E+ PE100 SDR11 PN16 d90-d32
193130257	Spig Saddle E+ PE100 SDR11 PN16 d90-d63
193130264	Spig Saddle E+ PE100 SDR11 PN16 d110-d32
193130267	Spig Saddle E+ PE100 SDR11 PN16 d110-d63

193130274	Spig Saddle E+ PE100 SDR11 PN16 d125-d32
193130277	Spig Saddle E+ PE100 SDR11 PN16 d125-d63
193130284	Spig Saddle E+ PE100 SDR11 PN16 d140-d32
193130287	Spig Saddle E+ PE100 SDR11 PN16 d140-d63
193130294	Spig Saddle E+ PE100 SDR11 PN16 d160-d32
193130297	Spig Saddle E+ PE100 SDR11 PN16 d160-d63
193130304	Spig Saddle E+ PE100 SDR11 PN16 d180-d32
193130307	Spig Saddle E+ PE100 SDR11 PN16 d180-d63
193130314	Spig Saddle E+ PE100 SDR11 PN16 d200-d32
193130317	Spig Saddle E+ PE100 SDR11 PN16 d200-d63
193130324	Spig Saddle E+ PE100 SDR11 PN16 d225-d32
193130327	Spig Saddle E+ PE100 SDR11 PN16 d225-d63
193130334	Spig Saddle E+ PE100 SDR11 PN16 d250-d32
193130337	Spig Saddle E+ PE100 SDR11 PN16 d250-d63
193130347	Spig Saddle E+ PE100 SDR11 PN16 d280-d63
193130357	Spig Saddle E+ PE100 SDR11 PN16 d315-d63
193130377	Spig Saddle E+ PE100 SDR11 PN16 d400-d63
193135009	Bra Saddle E+ PE100 SDR11 PN16 d110Xd90
193135010	Bra Saddle E+ PE100 SDR11 PN16 d110Xd110
193135019	Bra Saddle E+ PE100 SDR11 PN16 d125Xd90
193135020	Bra Saddle E+ PE100 SDR11 PN16 d125Xd110
193135029	Bra Saddle E+ PE100 SDR11 PN16 d140Xd90
193135030	Bra Saddle E+ PE100 SDR11 PN16 d140Xd110
193135039	Bra Saddle E+ PE100 SDR11 PN16 d160Xd90
193135040	Bra Saddle E+ PE100 SDR11 PN16 d160Xd110
193135041	Bra Saddle E+ PE100 SDR11 PN16 d160Xd125
193135049	Bra Saddle E+ PE100 SDR11 PN16 d180Xd90
193135050	Bra Saddle E+ PE100 SDR11 PN16 d180Xd110
193135051	Bra Saddle E+ PE100 SDR11 PN16 d180Xd125
193135059	Bra Saddle E+ PE100 SDR11 PN16 d200Xd90
193135060	Bra Saddle E+ PE100 SDR11 PN16 d200Xd110
193135061	Bra Saddle E+ PE100 SDR11 PN16 d200Xd125
193135069	Bra Saddle E+ PE100 SDR11 PN16 d225Xd90
193135070	Bra Saddle E+ PE100 SDR11 PN16 d225Xd110
193135071	Bra Saddle E+ PE100 SDR11 PN16 d225Xd125
193135079	Bra Saddle E+ PE100 SDR11 PN16 d250Xd90
193135080	Bra Saddle E+ PE100 SDR11 PN16 d250Xd110
193135081	Bra Saddle E+ PE100 SDR11 PN16 d250Xd125
193135289	Bra Saddle E+ PE100 SDR11 PN16 d280Xd90
193135290	Bra Saddle E+ PE100 SDR11 PN16 d280Xd110
193135291	Bra Saddle E+ PE100 SDR11 PN16 d280Xd125
193135309	Bra Saddle E+ PE100 PN16 d315-d355xd90
193135310	Bra Saddle E+ PE100 PN16 d315-d355xd110
193135311	Bra Saddle E+ PE100 PN16 d315-d355xd125
193135329	Bra Saddle E+ PE100 SDR11 PN16 d400Xd90
193135330	Bra Saddle E+ PE100 SDR11 PN16 d400Xd110
193135331	Bra Saddle E+ PE100 SDR11 PN16 d400Xd125
193135159	Bra Saddle E+ PE100 PN16 d500-d630xd90
193135160	Bra Saddle E+ PE100 PN16 d500-d630xd110
193135161	Bra Saddle E+ PE100 PN16 d500-d630xd125
193135202	Bra Saddle PE100 SDR11 PN16 d315-d160
193135204	Bra Saddle PE100 SDR11 PN16 d315-d225
193135212	Bra Saddle PE100 SDR11 PN16 d355-d160

193135214	Bra Saddle PE100 SDR11 PN16 d355-d225
193135222	Bra Saddle PE100 SDR11 PN16 d400-d160
193135224	Bra Saddle PE100 SDR11 PN16 d400-d225
193135232	Bra Saddle PE100 SDR11 PN16 d450-d160
193135234	Bra Saddle PE100 SDR11 PN16 d450-d225
193135242	Bra Saddle PE100 SDR11 PN16 d500-d160
193135244	Bra Saddle PE100 SDR11 PN16 d500-d225
193135252	Bra Saddle PE100 SDR11 PN16 d560-d160
193135254	Bra Saddle PE100 SDR11 PN16 d560-d225
193135262	Bra Saddle PE100 SDR11 PN16 d630-d160
193135264	Bra Saddle PE100 SDR11 PN16 d630-d225
193135272	Bra Saddle PE100 SDR11 PN16 d710-d160
193135274	Bra Saddle PE100 SDR11 PN16 d710-d225
193135282	Bra Saddle PE100 SDR11 PN16 d800-d160
193135284	Bra Saddle PE100 SDR11 PN16 d800-d225
193135294	Bra Saddle PE100 SDR11 PN16 d900-d225
193135304	Bra Saddle PE100 SDR11 PN16 d1000-d225
193135446	Bra Saddle PE100 SDR11 PN16 d500-d315
193135456	Bra Saddle PE100 SDR11 PN16 d560-d315
193135466	Bra Saddle PE100 SDR11 PN16 d630-d315
193135476	Bra Saddle PE100 SDR11 PN16 d710-d315
193135486	Bra Saddle PE100 SDR11 PN16 d800-d315
193135496	Bra Saddle PE100 SDR11 PN16 d900-d315
193135506	Bra Saddle PE100 SDR11 PN16 d1000-d315
193135676	Bra Saddle PE100 SDR17 PN10 d710-d315
193135686	Bra Saddle PE100 SDR17 PN10 d800-d315
193135696	Bra Saddle PE100 SDR17 PN10 d900-d315
193135698	Bra Saddle PE100 SDR17 PN10 d900-d500
193135706	Bra Saddle PE100 SDR17 PN10 d1000-d315
193135708	Bra Saddle PE100 SDR17 PN10 d1000-d500
193135716	Bra Saddle PE100 SDR17 PN10 d1200-d315
193135718	Bra Saddle PE100 SDR17 PN10 d1200-d500
193135726	Bra Saddle PE100 SDR17 PN10 d1400-d315
193135728	Bra Saddle PE100 SDR17 PN10 d1400-d500
193135736	Bra Saddle PE100 SDR17 PN10 d1600-d315
193135738	Bra Saddle PE100 SDR17 PN10 d1600-d500
193135746	Bra Saddle PE100 SDR17 PN10 d2000-d315
193135748	Bra Saddle PE100 SDR17 PN10 d2000-d500
753101006	Elbow 90° LS PE100 black SDR11 PN16 d20
753101007	Elbow 90° LS PE100 black SDR11 PN16 d25
753101008	Elbow 90° LS PE100 black SDR11 PN16 d32
753101009	Elbow 90° LS PE100 black SDR11 PN16 d40
753101010	Elbow 90° LS PE100 black SDR11 PN16 d50
753101011	Elbow 90° LS PE100 black SDR11 PN16 d63
753101012	Elbow 90° LS PE100 black SDR11 PN16 d75
753101013	Elbow 90° LS PE100 black SDR11 PN16 d90
753101014	Elbow 90° LS PE100 SDR11 PN16 d110
753101015	Elbow 90° LS PE100 SDR11 PN16 d125
753101016	Elbow 90° LS PE100 SDR11 PN16 d140
753101017	Elbow 90° LS PE100 SDR11 PN16 d160
753101018	Elbow 90° LS PE100 SDR11 PN16 d180
753101019	Elbow 90° LS PE100 SDR11 PN16 d200
753101020	Elbow 90° LS PE100 SDR11 PN16 d225

753101001	Elbow 90° LS PE100 SDR11 PN16/10 d250
753100922	Elbow 90° LS PE100 SDR11 PN16/10 d280
753101003	Elbow 90° LS PE100 black SDR11 PN16 d315
753100813	Elbow 90° LS PE100 black SDR17 PN10 d90
753100814	Elbow 90° LS PE100 SDR17 PN10 d110
753100815	Elbow 90° LS PE100 SDR17 PN10 d125
753100816	Elbow 90° LS PE100 SDR17 PN10 d140
753100817	Elbow 90° LS PE100 SDR17 PN10 d160
753100818	Elbow 90° LS PE100 SDR17 PN10 d180
753100819	Elbow 90° LS PE100 SDR17 PN10 d200
753100820	Elbow 90° LS PE100 SDR17 PN10 d225
753100821	Elbow 90° LS PE100 SDR17 PN10/6 d250
753100822	Elbow 90° LS PE100 SDR17 PN10/6 d280
753100823	Elbow 90° LS PE100 SDR17 PN10/6 d315
753151006	Elbow 45° LS PE100 black SDR11 PN16 d20
753151007	Elbow 45° LS PE100 black SDR11 PN16 d25
753151008	Elbow 45° LS PE100 black SDR11 PN16 d32
753151009	Elbow 45° LS PE100 black SDR11 PN16 d40
753151010	Elbow 45° LS PE100 black SDR11 PN16 d50
753151011	Elbow 45° LS PE100 black SDR11 PN16 d63
753151012	Elbow 45° LS PE100 black SDR11 PN16 d75
753151013	Elbow 45° LS PE100 black SDR11 PN16 d90
753151014	Elbow 45° LS PE100 SDR11 PN16 d110
753151015	Elbow 45° LS PE100 SDR11 PN16 d125
753151016	Elbow 45° LS PE100 black SDR11 d140
753151017	Elbow 45° LS PE100 SDR11 PN16 d160
753151018	Elbow 45° LS PE100 SDR11 PN16 d180
753151019	Elbow 45° LS PE100 SDR11 PN16 d200
753151020	Elbow 45° LS PE100 SDR11 PN16 d225
753151021	Elbow 45° LS PE100 SDR11 PN16/10 d250
753150922	Elbow 45° LS PE100 SDR11 PN16/10 d280
753150923	Elbow 45° LS PE100 SDR11 PN16/10 d315
753150813	Elbow 45° LS PE100 black SDR17 PN10 d90
753150814	Elbow 45° LS PE100 SDR17 PN10 d110
753150815	Elbow 45° LS PE100 SDR17 PN10 d125
753150816	Elbow 45° LS PE100 SDR17 PN10 d140
753150817	Elbow 45° LS PE100 SDR17 PN10 d160
753150818	Elbow 45° LS PE100 SDR17 PN10 d180
753150819	Elbow 45° LS PE100 SDR17 PN10 d200
753150820	Elbow 45° LS PE100 SDR17 PN10 d225
753150821	Elbow 45° LS PE100 SDR17 PN10 d250
753150822	Elbow 45° LS PE100 SDR17 PN10 d280
753150823	Elbow 45° LS PE100 SDR17 PN10 d315
753120908	Elbow 30° LS PE100 black SDR11 PN16 d32
753120909	Elbow 30° LS PE100 black SDR11 PN16 d40
753120910	Elbow 30° LS PE100 black SDR11 PN16 d50
753120911	Elbow 30° LS PE100 black SDR11 PN16 d63
753120912	Elbow 30° LS PE100 black SDR11 PN16 d75
753120913	Elbow 30° LS PE100 black SDR11 PN16 d90
753120914	Elbow 30° LS PE100 SDR11 PN16 d110
753120915	Elbow 30° LS PE100 SDR11 PN16 d125
753120916	Elbow 30° LS PE100 SDR11 PN16 d140
753120917	Elbow 30° LS PE100 SDR11 PN16 d160

753120918	Elbow 30° LS PE100 SDR11 PN16 d180
753120919	Elbow 30° LS PE100 SDR11 PN16 d200
753120920	Elbow 30° LS PE100 SDR11 PN16 d225
753120921	Elbow 30° LS PE100 SDR11 PN16 d250
753120922	Elbow 30° LS PE100 SDR11 PN16 d280
753120923	Elbow 30° LS PE100 SDR11 PN16 d315
753120813	Elbow 30° LS PE100 black SDR17 PN10 d90
753120814	Elbow 30° LS PE100 SDR17 PN10 d110
753120815	Elbow 30° LS PE100 SDR17 PN10 d125
753120816	Elbow 30° LS PE100 SDR17 PN10 d140
753120817	Elbow 30° LS PE100 SDR17 PN10 d160
753120818	Elbow 30° LS PE100 SDR17 PN10 d180
753120819	Elbow 30° LS PE100 SDR17 PN10 d200
753120820	Elbow 30° LS PE100 SDR17 PN10 d225
753120821	Elbow 30° LS PE100 SDR17 PN10 d250
753120822	Elbow 30° LS PE100 SDR17 PN10 d280
753120823	Elbow 30° LS PE100 SDR17 PN10 d315
753141008	Elbow 15° LS PE100 black SDR11 PN16 d32
753141009	Elbow 15° LS PE100 black SDR11 PN16 d40
753141010	Elbow 15° LS PE100 black SDR11 PN16 d50
753141011	Elbow 15° LS PE100 black SDR11 PN16 d63
753141012	Elbow 15° LS PE100 black SDR11 PN16 d75
753141013	Elbow 15° LS PE100 black SDR11 PN16 d90
753141014	Elbow 15° LS PE100 SDR11 PN16 d110
753141015	Elbow 15° LS PE100 SDR11 PN16 d125
753141016	Elbow 15° LS PE100 SDR11 PN16 d140
753141017	Elbow 15° LS PE100 SDR11 PN16 d160
753141018	Elbow 15° LS PE100 SDR11 PN16 d180
753141019	Elbow 15° LS PE100 SDR11 PN16 d200
753141020	Elbow 15° LS PE100 SDR11 PN16 d225
753141021	Elbow 15° LS PE100 SDR11 PN16 d250
753141022	Elbow 15° LS PE100 SDR11 PN16 d280
753141023	Elbow 15° LS PE100 SDR11 PN16 d315
753140813	Elbow 15° LS PE100 black SDR17 PN10 d90
753140814	Elbow 15° LS PE100 SDR17 PN10 d110
753140815	Elbow 15° LS PE100 SDR17 PN10 d125
753140816	Elbow 15° LS PE100 SDR17 PN10 d140
753140817	Elbow 15° LS PE100 SDR17 PN10 d160
753140818	Elbow 15° LS PE100 SDR17 PN10 d180
753140819	Elbow 15° LS PE100 SDR17 PN10 d200
753140820	Elbow 15° LS PE100 SDR17 PN10 d225
753140821	Elbow 15° LS PE100 SDR17 PN10 d250
753140822	Elbow 15° LS PE100 SDR17 PN10 d280
753140823	Elbow 15° LS PE100 SDR17 PN10 d315
753001008	Bend 90° LS PE100 SDR11 d32
753001009	Bend 90° LS PE100 SDR11 d40
753001010	Bend 90° LS PE100 black SDR11 d50
753001011	Bend 90° LS PE100 black SDR11 d63
753001012	Bend 90° LS PE100 black SDR11 d75
753001013	Bend 90° LS PE100 black SDR11 d90
753001014	Bend 90° LS PE100 black SDR11 d110
753001015	Bend 90° LS PE100 black SDR11 d125
753001016	Bend 90° LS PE100 black SDR11 d140

753001017	Bend 90° LS PE100 black SDR11 d160
753001018	Bend 90° LS PE100 black SDR11 d180
753001019	Bend 90° LS PE100 black SDR11 d200
753001020	Bend 90° LS PE100 black SDR11 d225
753001021	Bend 90° LS PE100 black SDR11 d250
753001022	Bend 90° LS PE100 black SDR11 d280
753001023	Bend 90° LS PE100 black SDR11 d315
753001024	Bend 90° LS PE100 black SDR11 d355
753001025	Bend 90° LS PE100 black SDR11 d400
753001026	Bend 90° LS PE100 black SDR11 d450
753001027	Bend 90° LS PE100 black SDR11 d500
753001028	Bend 90° LS PE100 black SDR11 d560
753001029	Bend 90° LS PE100 black SDR11 d630
753001032	Bend 90° LS PE100 SDR11 PN16 710
753001033	Bend 90° LS PE100 SDR11 PN16 800
753000813	Bend 90° LS PE100 SDR17 d90
753000814	Bend 90° LS PE100 black SDR17 d110
753000815	Bend 90° LS PE100 black SDR17 d125
753000816	Bend 90° LS PE100 black SDR17 d140
753000817	Bend 90° LS PE100 SDR17 PN10 d160
753000818	Bend 90° LS PE100 SDR17 PN10 d180
753000819	Bend 90° LS PE100 SDR17 PN10 d200
753000820	Bend 90° LS PE100 SDR17 PN10 d225
753000821	Bend 90° LS PE100 SDR17 PN10 d250
753000822	Bend 90° LS PE100 SDR17 PN10 d280
753000823	Bend 90° LS PE100 SDR17 PN10 d315
753000824	Bend 90° LS PE100 SDR17 PN10 d355
753000825	Bend 90° LS PE100 SDR17 d400
753000826	Bend 90° LS PE100 SDR17 PN10 d450
753000827	Bend 90° LS PE100 SDR17 PN10 d500
753000828	Bend 90° LS PE100 SDR17 PN10 d560
753000829	Bend 90° LS PE100 black SDR17 d630
753000832	Bend 90° LS PE100 SDR17 PN10 710
753000833	Bend 90° LS PE100 SDR17 PN10 800
753000834	Bend 90° LS PE100 SDR17 PN10 900
753000835	Bend 90° LS PE100 SDR17 PN10 1000
753071008	Bend 60° LS PE100 black SDR11 d32
753071009	Bend 60° LS PE100 black SDR11 d40
753071010	Bend 60° LS PE100 black SDR11 d50
753071011	Bend 60° LS PE100 black SDR11 d63
753071012	Bend 60° LS PE100 black SDR11 d75
753071013	Bend 60° LS PE100 black SDR11 d90
753071014	Bend 60° LS PE100 black SDR11 d110
753071015	Bend 60° LS PE100 black SDR11 d125
753071016	Bend 60° LS PE100 black SDR11 d140
753071017	Bend 60° LS PE100 black SDR11 d160
753071018	Bend 60° LS PE100 black SDR11 d180
753071019	Bend 60° LS PE100 black SDR11 d200
753071020	Bend 60° LS PE100 black SDR11 d225
753071021	Bend 60° LS PE100 black SDR11 d250
753071022	Bend 60° LS PE100 black SDR11 d280
753071023	Bend 60° LS PE100 black SDR11 d315
753071024	Bend 60° LS PE100 black SDR11 d355

753071025	Bend 60° LS PE100 black SDR11 d400
753071026	Bend 60° LS PE100 black SDR11 d450
753071027	Bend 60° LS PE100 black SDR11 d500
753071028	Bend 60° LS PE100 black SDR11 d560
753071029	Bend 60° LS PE100 black SDR11 d630
753070813	Bend 60° LS PE100 SDR17 PN10 d90
753070814	Bend 60° LS PE100 SDR17 PN10 d110
753070815	Bend 60° LS PE100 SDR17 PN10 d125
753070816	Bend 60° LS PE100 SDR17 PN10 d140
753070817	Bend 60° LS PE100 SDR17 PN10 d160
753070818	Bend 60° LS PE100 SDR17 PN10 d180
753070819	Bend 60° LS PE100 SDR17 PN10 d200
753070820	Bend 60° LS PE100 SDR17 PN10 d225
753070821	Bend 60° LS PE100 SDR17 PN10 d250
753070822	Bend 60° LS PE100 SDR17 PN10 d280
753070823	Bend 60° LS PE100 SDR17 PN10 d315
753070824	Bend 60° LS PE100 SDR17 PN10 d355
753070825	Bend 60° LS PE100 SDR17 PN10 d400
753070826	Bend 60° LS PE100 SDR17 PN10 d450
753070827	Bend 60° LS PE100 SDR17 PN10 d500
753070828	Bend 60° LS PE100 SDR17 PN10 d560
753070829	Bend 60° LS PE100 SDR17 PN10 d630
753051008	Bend 45° LS PE100 black SDR11 d32
753051009	Bend 45° LS PE100 black SDR11 d40
753051010	Bend 45° LS PE100 black SDR11 d50
753051011	Bend 45° LS PE100 black SDR11 d63
753051012	Bend 45° LS PE100 black SDR11 d75
753051013	Bend 45° LS PE100 black SDR11 d90
753051014	Bend 45° LS PE100 black SDR11 d110
753051015	Bend 45° LS PE100 black SDR11 d125
753051016	Bend 45° LS PE100 black SDR11 d140
753051017	Bend 45° LS PE100 black SDR11 d160
753051018	Bend 45° LS PE100 black SDR11 d180
753051019	Bend 45° LS PE100 black SDR11 d200
753051020	Bend 45° LS PE100 black SDR11 d225
753051021	Bend 45° LS PE100 black SDR11 d250
753051022	Bend 45° LS PE100 black SDR11 d280
753051023	Bend 45° LS PE100 black SDR11 d315
753051024	Bend 45° LS PE100 black SDR11 d355
753051025	Bend 45° LS PE100 black SDR11 d400
753051026	Bend 45° LS PE100 black SDR11 d450
753051027	Bend 45° LS PE100 black SDR11 d500
753051028	Bend 45° LS PE100 black SDR11 d560
753051029	Bend 45° LS PE100 black SDR11 d630
753050830	Bend 45° LS PE100 SDR17 PN10 710
753050831	Bend 45° LS PE100 SDR17 PN10 800
753050832	Bend 45° LS PE100 SDR17 PN10 900
753050833	Bend 45° LS PE100 SDR17 PN10 1000
753050813	Bend 45° LS PE100 SDR17 PN10 d90
753050814	Bend 45° LS PE100 SDR17 PN10 d110
753050815	Bend 45° LS PE100 SDR17 PN10 d125
753050816	Bend 45° LS PE100 SDR17 PN10 d140
753050817	Bend 45° LS PE100 SDR17 PN10 d160

753050818	Bend 45° LS PE100 SDR17 PN10 d180
753050819	Bend 45° LS PE100 SDR17 PN10 d200
753050820	Bend 45° LS PE100 SDR17 PN10 d225
753050821	Bend 45° LS PE100 SDR17 PN10 d250
753050822	Bend 45° LS PE100 SDR17 PN10 d280
753050823	Bend 45° LS PE100 SDR17 PN10 d315
753050824	Bend 45° LS PE100 SDR17 PN10 d355
753050825	Bend 45° LS PE100 SDR17 PN10 d400
753050826	Bend 45° LS PE100 SDR17 PN10 d450
753050827	Bend 45° LS PE100 SDR17 PN10 d500
753050828	Bend 45° LS PE100 SDR17 PN10 d560
753050829	Bend 45° LS PE100 SDR17 PN10 d630
753061008	Bend 30° LS PE100 black SDR11 d32
753061009	Bend 30° LS PE100 black SDR11 d40
753061010	Bend 30° LS PE100 black SDR11 d50
753061011	Bend 30° LS PE100 black SDR11 d63
753061012	Bend 30° LS PE100 black SDR11 d75
753061013	Bend 30° LS PE100 black SDR11 d90
753061014	Bend 30° LS PE100 black SDR11 d110
753061015	Bend 30° LS PE100 black SDR11 d125
753061016	Bend 30° LS PE100 black SDR11 d140
753061017	Bend 30° LS PE100 black SDR11 d160
753061018	Bend 30° LS PE100 black SDR11 d180
753061019	Bend 30° LS PE100 black SDR11 d200
753061020	Bend 30° LS PE100 black SDR11 d225
753061021	Bend 30° LS PE100 black SDR11 d250
753061022	Bend 30° LS PE100 black SDR11 d280
753061023	Bend 30° LS PE100 black SDR11 d315
753061024	Bend 30° LS PE100 black SDR11 d355
753061025	Bend 30° LS PE100 black SDR11 d400
753061026	Bend 30° LS PE100 black SDR11 d450
753061027	Bend 30° LS PE100 black SDR11 d500
753061028	Bend 30° LS PE100 black SDR11 d560
753061029	Bend 30° LS PE100 black SDR11 d630
753060813	Bend 30° LS PE100 SDR17 PN10 d90
753060814	Bend 30° LS PE100 SDR17 PN10 d110
753060815	Bend 30° LS PE100 SDR17 PN10 d125
753060816	Bend 30° LS PE100 SDR17 PN10 d140
753060817	Bend 30° LS PE100 SDR17 PN10 d160
753060818	Bend 30° LS PE100 SDR17 PN10 d180
753060819	Bend 30° LS PE100 SDR17 PN10 d200
753060820	Bend 30° LS PE100 SDR17 PN10 d225
753060821	Bend 30° LS PE100 SDR17 PN10 d250
753060822	Bend 30° LS PE100 SDR17 PN10 d280
753060823	Bend 30° LS PE100 SDR17 PN10 d315
753060824	Bend 30° LS PE100 SDR17 PN10 d355
753060825	Bend 30° LS PE100 SDR17 PN10 d400
753060826	Bend 30° LS PE100 SDR17 PN10 d450
753060827	Bend 30° LS PE100 SDR17 PN10 d500
753060828	Bend 30° LS PE100 SDR17 PN10 d560
753060829	Bend 30° LS PE100 SDR17 PN10 d630
753081008	Bend 22° LS PE100 black SDR11 d32
753081009	Bend 22° LS PE100 black SDR11 d40

753081010	Bend 22° LS PE100 black SDR11 d50
753081011	Bend 22° LS PE100 black SDR11 d63
753081012	Bend 22° LS PE100 black SDR11 d75
753081013	Bend 22° LS PE100 black SDR11 d90
753081014	Bend 22° LS PE100 black SDR11 d110
753081015	Bend 22° LS PE100 black SDR11 d125
753081016	Bend 22° LS PE100 black SDR11 d140
753081017	Bend 22° LS PE100 black SDR11 d160
753081018	Bend 22° LS PE100 black SDR11 d180
753081019	Bend 22° LS PE100 black SDR11 d200
753081020	Bend 22° LS PE100 black SDR11 d225
753081021	Bend 22° LS PE100 black SDR11 d250
753081022	Bend 22° LS PE100 black SDR11 d280
753081023	Bend 22° LS PE100 black SDR11 d315
753081024	Bend 22° LS PE100 black SDR11 d355
753081025	Bend 22° LS PE100 black SDR11 d400
753081026	Bend 22° LS PE100 black SDR11 d450
753081027	Bend 22° LS PE100 black SDR11 d500
753081028	Bend 22° LS PE100 black SDR11 d560
753081029	Bend 22° LS PE100 black SDR11 d630
753080813	Bend 22° LS PE100 SDR17 PN10 d90
753080814	Bend 22° LS PE100 SDR17 PN10 d110
753080815	Bend 22° LS PE100 SDR17 PN10 d125
753080816	Bend 22° LS PE100 SDR17 PN10 d140
753080817	Bend 22° LS PE100 SDR17 PN10 d160
753080818	Bend 22° LS PE100 SDR17 PN10 d180
753080819	Bend 22° LS PE100 SDR17 PN10 d200
753080820	Bend 22° LS PE100 SDR17 PN10 d225
753080821	Bend 22° LS PE100 SDR17 PN10 d250
753080822	Bend 22° LS PE100 SDR17 PN10 d280
753080823	Bend 22° LS PE100 SDR17 PN10 d315
753080824	Bend 22° LS PE100 SDR17 PN10 d355
753080825	Bend 22° LS PE100 SDR17 PN10 d400
753080826	Bend 22° LS PE100 SDR17 PN10 d450
753080827	Bend 22° LS PE100 SDR17 PN10 d500
753080828	Bend 22° LS PE100 SDR17 PN10 d560
753080829	Bend 22° LS PE100 SDR17 PN10 d630
753091008	Bend 11° LS PE100 black SDR11 d32
753091009	Bend 11° LS PE100 black SDR11 d40
753091010	Bend 11° LS PE100 black SDR11 d50
753091011	Bend 11° LS PE100 black SDR11 d63
753091012	Bend 11° LS PE100 black SDR11 d75
753091013	Bend 11° LS PE100 black SDR11 d90
753091014	Bend 11° LS PE100 black SDR11 d110
753091015	Bend 11° LS PE100 black SDR11 d125
753091016	Bend 11° LS PE100 black SDR11 d140
753091017	Bend 11° LS PE100 black SDR11 d160
753091018	Bend 11° LS PE100 black SDR11 d180
753091019	Bend 11° LS PE100 black SDR11 d200
753091020	Bend 11° LS PE100 black SDR11 d225
753091021	Bend 11° LS PE100 black SDR11 d250
753091022	Bend 11° LS PE100 black SDR11 d280
753091023	Bend 11° LS PE100 black SDR11 d315

753091024	Bend 11° LS PE100 black SDR11 d355
753091025	Bend 11° LS PE100 black SDR11 d400
753091026	Bend 11° LS PE100 black SDR11 d450
753091027	Bend 11° LS PE100 black SDR11 d500
753091028	Bend 11° LS PE100 black SDR11 d560
753091029	Bend 11° LS PE100 black SDR11 d630
753090813	Bend 11° LS PE100 SDR17 PN10 d90
753090814	Bend 11° LS PE100 SDR17 PN10 d110
753090815	Bend 11° LS PE100 SDR17 PN10 d125
753090816	Bend 11° LS PE100 SDR17 PN10 d140
753090817	Bend 11° LS PE100 SDR17 PN10 d160
753090818	Bend 11° LS PE100 SDR17 PN10 d180
753090819	Bend 11° LS PE100 SDR17 PN10 d200
753090820	Bend 11° LS PE100 SDR17 PN10 d225
753090821	Bend 11° LS PE100 SDR17 PN10 d250
753090822	Bend 11° LS PE100 SDR17 PN10 d280
753090823	Bend 11° LS PE100 SDR17 PN10 d315
753090824	Bend 11° LS PE100 SDR17 PN10 d355
753090825	Bend 11° LS PE100 SDR17 PN10 d400
753090826	Bend 11° LS PE100 SDR17 PN10 d450
753090827	Bend 11° LS PE100 SDR17 PN10 d500
753090828	Bend 11° LS PE100 SDR17 PN10 d560
753090829	Bend 11° LS PE100 SDR17 PN10 d630
753201006	T 90° Equal LS PE100 SDR11 PN16 d20
753201007	T 90° Equal LS PE100 SDR11 PN16 d25
753201008	T 90° Equal LS PE100 SDR11 PN16 d32
753201009	T 90° Equal LS PE100 SDR11 PN16 d40
753201010	T 90° Equal LS PE100 SDR11 PN16 d50
753201011	T 90° Equal LS PE100 SDR11 PN16 d63
753201012	T 90° Equal LS PE100 SDR11 PN16 d75
753201013	T 90° Equal LS PE100 SDR11 PN16 d90
753201014	T 90° Equal LS PE100 SDR11 PN16 d110
753201015	T 90° Equal LS PE100 SDR11 PN16 d125
753201016	T 90° Equal LS PE100 SDR11 PN16 d140
753201017	T 90° Equal LS PE100 SDR11 PN16 d160
753201018	T 90° Equal LS PE100 SDR11 PN16 d180
753201019	T 90° Equal LS PE100 SDR11 PN16 d200
753201020	T 90° Equal LS PE100 SDR11 PN16 d225
753201001	T 90° Equal LS PE100 SDR11 PN16/10 d250
753200902	T 90° Equal LS PE100 black SDR11 d280
753200903	T 90° Equal LS PE100 black SDR11 d315
753200024	T 90° Equal LS PE100 black SDR11 d355
753200025	T 90° Equal LS PE100 black SDR11 d400
753200026	T 90° Equal LS PE100 black SDR11 d450
753200027	T 90° Equal LS PE100 black SDR11 d500
753200028	T90°eq. PE100 black SDR11/PN16 LS d560
753200029	T90°eq. PE100 black SDR11/PN16 LS d630
753201120	T 90° Equal LS PE100 black SDR11 d710
753201121	T 90° Equal LS PE100 black SDR11 d800
753200813	T 90° Equal LS PE100 SDR17 PN10 d90
753200814	T 90° Equal LS PE100 SDR17 PN10 d110
753200815	T 90° Equal LS PE100 SDR17 PN10 d125
753200816	T 90° Equal LS PE100 SDR17 PN10 d140

753200817	T 90° Equal LS PE100 SDR17 PN10 d160
753200818	T 90° Equal LS PE100 SDR17 PN10 d180
753200819	T 90° Equal LS PE100 SDR17 PN10 d200
753200820	T 90° Equal LS PE100 SDR17 PN10 d225
753200821	T 90° Equal LS PE100 SDR17 PN10 d250
753200802	T 90° Equal LS PE100 SDR17 PN10/6 d280
753200803	T 90° Equal LS PE100 SDR17 PN10 d315
753200124	T 90° Equal LS PE100 black SDR17 d355
753200125	T 90° Equal LS PE100 black SDR17 d400
753200126	T 90° Equal LS PE100 black SDR17 d450
753200127	T 90° Equal LS PE100 black SDR17 d500
753200128	T90°eq. PE100 black SDR17/PN10 LS d560
753200129	T90°eq. PE100 black SDR17/PN10 LS d630
753201920	T 90° Equal LS PE100 black SDR17 d710
753201921	T 90° Equal LS PE100 black SDR17 d800
753202810	T 90° Equal LS PE100 black SDR17 d710 seg
753202811	T 90° Equal LS PE100 black SDR17 d800 seg
753202812	T 90° Equal LS PE100 black SDR17 d900
753202813	T 90° Equal LS PE100 black SDR17 d1000
753251010	T 45° Eq LS PE100 black SDR11 d50
753251011	T 45° Eq LS PE100 black SDR11 d63
753251012	T 45° Eq LS PE100 black SDR11 d75
753251013	T 45° Eq LS PE100 black SDR11 d90
753251014	T 45° Eq LS PE100 black SDR11 d110
753251063	T 45° Eq LS PE100 SDR17 PN10 d90
753251064	T 45° Eq LS PE100 SDR17 PN10 d110
753201026	T 90° Red LS PE100 SDR11 PN16 d63-d40
753201021	T 90° Red LS PE100 black SDR11 d63-d50
753201023	T 90° Red LS PE100 SDR11 PN16 d75-d32
753201024	T 90° Red LS PE100 SDR11 PN16 d75-d50
753201025	T 90° Red LS PE100 SDR11 PN16 d75-d63
753201027	T 90° Red LS PE100 black SDR11 d90-d50
753201029	T 90° Red LS PE100 black SDR11 d90-d63
753201055	T 90° Red LS PE100 SDR11 PN16 d90-d75
753201028	T 90° Red LS PE100 SDR11 d110-d63
753201131	T 90° Reduced PE100 PN16 d110d75
753201032	T 90° Red LS PE100 SDR11 d110-d90
753201132	T 90° Reduced PE100 PN16 d125d90
753201133	T 90° Reduced PE100 PN16 d125d110
753201034	T 90° Red LS PE100 SDR11 d160-d63
753201880	T 90° Red LS PE100 SDR11 PN16 d160-d75
753201036	T 90° Red LS PE100 SDR11 d160-d90
753201037	T 90° Red LS PE100 SDR11 d160-d110
753201881	T 90° Red LS PE100 SDR11 PN16 d180-d90
753201882	T 90° Red PE100 SDR11 PN16 d180-d110
753201883	T 90° Red LS PE100 SDR11 d180-d160
753201073	T 90° Red LS PE100 SDR11 d200-d63
753201074	T 90° Red LS PE100 SDR11 d200-d90
753201075	T 90° Red LS PE100 SDR11 d200-d110
753201076	T 90° Red LS PE100 SDR11 d200-d160
753201039	T 90° Red LS PE100 SDR11 d225-d75
753201040	T 90° Red LS PE100 SDR11 d225-d90
753201041	T 90° Red LS PE100 SDR11 d225-d110

753201042	T 90° Red LS PE100 SDR11 d225-d160
753201043	T 90° Red LS PE100 SDR11 d225-d180
753201078	T 90° Red LS PE100 SDR11 d250-d110
753201079	T 90° Red LS PE100 SDR11 d250-d160
753201051	T 90° Red LS PE100 SDR11 d315-d110
753201052	T 90° Red LS PE100 SDR11 d315-d160
753201153	T 90° Red PE100 SDR11 PN16 d315-d225 mold
753201054	T 90° Red LS PE100 SDR11 d315-d250
753201002	T 90° Red LS PE100 SDR11 PN10 d25-d20
753201003	T 90° Red LS PE100 SDR11 PN10 d32-d20
753201004	T 90° Red LS PE100 SDR11 PN10 d32-d25
753201005	T 90° Red LS PE100 SDR11 PN10 d40-d20
753201069	T 90° Red LS PE100 SDR11 PN10 d40-d25
753201070	T 90° Red LS PE100 SDR11 PN10 d40-d32
753201072	T 90° Red LS PE100 SDR11 PN10 d50-d20
753201077	T 90° Red LS PE100 SDR11 PN10 d50-d25
753201080	T 90° Red LS PE100 SDR11 PN10 d50-d32
753201081	T 90° Red LS PE100 SDR11 PN10 d50-d40
753201022	T 90° Red LS PE100 SDR11 PN16 d63-d32
753201084	T 90° Red LS PE100 SDR11 PN10 d75-d40
753201085	T 90° Red LS PE100 SDR11 PN16 d125-d63
753201086	T 90° Red LS PE100 SDR11 PN16 d125-d75
753201087	T 90° Red LS PE100 SDR11 PN16 d140-d75
753201089	T 90° Red LS PE100 SDR11 PN16 d140-d90
753201090	T 90° Red PE100 SDR11 PN16 d140-d110
753201091	T 90° Red PE100 SDR11 PN16 d140-d125
753201092	T 90° Red PE100 SDR11 PN16 d160-d125
753201093	T 90° Red PE100 SDR11 PN16 d160-d140
753201094	T 90° Red PE100 SDR11 PN16 d180-d125
753201095	T 90° Red PE100 SDR11 PN16 d180-d140
753201096	T 90° Red PE100 SDR11 PN16 d200-d125
753201097	T 90° Red PE100 SDR11 PN16 d200-d140
753201098	T 90° Red PE100 SDR11 PN16 d200-d180
753201099	T 90° Red PE100 SDR11 PN16 d225-d125
753201100	T 90° Red PE100 SDR11 PN16 d225-d140
753201101	T 90° Red PE100 SDR11 PN16 d225-d200
753201102	T 90° Red PE100 SDR11 PN16 d250-d180
753201103	T 90° Red PE100 SDR11 PN16 d250-d200
753201104	T 90° Red PE100 SDR11 PN16 d250-d225
753201105	T 90° Red PE100 SDR11 PN16 d280-d200
753201106	T 90° Red PE100 SDR11 PN16 d280-d225
753201107	T 90° Red PE100 SDR11 PN16 d280-d250
753201152	T 90° Red PE100 SDR11 PN16 d315-d200
753201109	T 90° Red PE100 SDR11 PN16 d315-d280
753201110	T 90° Red PE100 SDR11 PN16 d355-d250
753201111	T 90° Red PE100 SDR11 PN16 d355-d280
753201112	T 90° Red PE100 SDR11 PN16 d355-d315
753201113	T 90° Red PE100 SDR11 PN16 d400-d280
753201114	T 90° Red PE100 SDR11 PN16 d400-d315
753201115	T 90° Red PE100 SDR11 PN16 d400-d355
753201404	T 90° Red PE100 SDR11 PN16 d315-d225
753201356	T 90° Red LS PE100 SDR11 PN16 d355-d90
753201357	T 90° Red PE100 SDR11 PN16 d355-d110

753201358	T 90° Red PE100 SDR11 PN16 d355-d125
753201412	T 90° Red PE100 SDR11 PN16 d355-d160
753201414	T 90° Red PE100 SDR11 PN16 d355-d225
753201359	T 90° Red LS PE100 SDR11 PN16 d400-d90
753201360	T 90° Red PE100 SDR11 PN16 d400-d110
753201361	T 90° Red PE100 SDR11 PN16 d400-d125
753201422	T 90° Red PE100 SDR11 PN16 d400-d160
753201424	T 90° Red PE100 SDR11 PN16 d400-d225
753201229	T 90° Red LS PE100 SDR11 PN16 450-90
753201363	T 90° Red PE100 SDR11 PN16 d450-d110
753201364	T 90° Red PE100 SDR11 PN16 d450-d125
753201432	T 90° Red PE100 SDR11 PN16 d450-d160
753201434	T 90° Red PE100 SDR11 PN16 d450-d225
753201365	T 90° Red LS PE100 SDR11 PN16 d500-d90
753201366	T 90° Red PE100 SDR11 PN16 d500-d110
753201367	T 90° Red PE100 SDR11 PN16 d500-d125
753201442	T 90° Red PE100 SDR11 PN16 d500-d160
753201444	T 90° Red PE100 SDR11 PN16 d500-d225
753201368	T 90° Red LS PE100 SDR11 PN16 d560-d90
753201369	T 90° Red PE100 SDR11 PN16 d560-d110
753201370	T 90° Red PE100 SDR11 PN16 d560-d125
753201452	T 90° Red PE100 SDR11 PN16 d560-d160
753201454	T 90° Red PE100 SDR11 PN16 d560-d225
753201371	T 90° Red LS PE100 SDR11 PN16 d630-d90
753201372	T 90° Red PE100 SDR11 PN16 d630-d110
753201373	T 90° Red PE100 SDR11 PN16 d630-d125
753201462	T 90° Red PE100 SDR11 PN16 d630-d160
753201464	T 90° Red PE100 SDR11 PN16 d630-d225
753201827	T 90° Red LS PE100 SDR17 PN10 d90-d50
753200829	T 90° Red LS PE100 SDR17 PN10 d90-d63
753201855	T 90° Red LS PE100 SDR17 PN10 d90-d75
753200828	T 90° Red LS PE100 SDR17 PN10 d110-d63
753200131	Tee 90° red PE100 PN10 d110d75
753200832	T 90° Red LS PE100 SDR17 PN10 d110-d90
753200133	T 90° Reduced PE100 PN10 d125d110
753200834	T 90° Red LS PE100 SDR17 PN10 d160-d63
753200880	T 90° Red LS PE100 SDR17 PN10 d160-d75
753200836	T 90° Red LS PE100 SDR17 PN10 d160-d90
753200837	T 90° Red PE100 SDR17 PN10 d160-d110
753200881	T 90° Red LS PE100 SDR17 PN10 d180-d90
753200882	T 90° Red PE100 SDR17 PN10 d180-d160
753201873	T 90° Red LS PE100 SDR17 PN10 d200-d63
753201874	T 90° Red LS PE100 SDR17 PN10 d200-d90
753201875	T 90° Red PE100 SDR17 PN10 d200-d110
753201876	T 90° Red PE100 SDR17 PN10 d200-d160
753200839	T 90° Red LS PE100 SDR17 PN10 d225-d75
753200840	T 90° Red LS PE100 SDR17 PN10 d225-d90
753200841	T 90° Red PE100 SDR17 PN10 d225-d110
753200842	T 90° Red PE100 SDR17 PN10 d225-d160
753200843	T 90° Red PE100 SDR17 PN10 d225-d180
753201878	T 90° Red PE100 SDR17 PN10 d250-d110
753201879	T 90° Red PE100 SDR17 PN10 d250-d160
753200851	T 90° Red PE100 SDR17 PN10 d315-d110

753200852	T 90° Red PE100 SDR17 PN10 d315-d160
753200153	T 90° Red PE100 SDR17 PN10 d315-d225
753200854	T 90° Red PE100 SDR17 PN10 d315-d250
753200801	T 90° Red LS PE100 SDR17 PN10 d125-d63
753200810	T 90° Red LS PE100 SDR17 PN10 d125-d75
753200132	T 90° Reduced PE100 PN10 d125d90
753200812	T 90° Red LS PE100 SDR17 PN10 d140-d75
753200822	T 90° Red LS PE100 SDR17 PN10 d140-d90
753200823	T 90° Red PE100 SDR17 PN10 d140-d110
753200824	T 90° Red PE100 SDR17 PN10 d140-d125
753200825	T 90° Red PE100 SDR17 PN10 d160-d125
753200826	T 90° Red PE100 SDR17 PN10 d160-d140
753200150	T 90° Red PE100 SDR17 PN10 d180-d110
753200845	T 90° Red PE100 SDR17 PN10 d180-d125
753200846	T 90° Red PE100 SDR17 PN10 d180-d140
753200847	T 90° Red PE100 SDR17 PN10 d200-d125
753200848	T 90° Red PE100 SDR17 PN10 d200-d140
753200849	T 90° Red PE100 SDR17 PN10 d200-d180
753200850	T 90° Red PE100 SDR17 PN10 d225-d125
753200855	T 90° Red PE100 SDR17 PN10 d225-d140
753200856	T 90° Red PE100 SDR17 PN10 d225-d200
753200857	T 90° Red PE100 SDR17 PN10 d250-d180
753200858	T 90° Red PE100 SDR17 PN10 d250-d200
753200859	T 90° Red PE100 SDR17 PN10 d250-d225
753200860	T 90° Red PE100 SDR17 PN10 d280-d200
753200861	T 90° Red PE100 SDR17 PN10 d280-d225
753200862	T 90° Red PE100 SDR17 PN10 d280-d250
753200152	T 90° Red PE100 SDR17 PN10 d315-d200
753200864	T 90° Red PE100 SDR17 PN10 d315-d280
753200865	T 90° Red PE100 SDR17 PN10 d355-d250
753200866	T 90° Red PE100 SDR17 PN10 d355-d280
753200867	T 90° Red PE100 SDR17 PN10 d355-d315
753200868	T 90° Red PE100 SDR17 PN10 d400-d280
753200869	T 90° Red PE100 SDR17 PN10 d400-d315
753200870	T 90° Red PE100 SDR17 PN10 d400-d355
753251044	T 45° Red LS PE100 black SDR11 d63-d50
753900872	Reducer LS PE100 SDR17 PN10 d90-d63
753900870	Reducer LS PE100 SDR17 PN10 d90-d75
753900877	Reducer LS PE100 SDR17 PN10 d110-d63
753900876	Reducer LS PE100 SDR17 PN10 d110-d90
753900882	Reducer LS PE100 SDR17 PN10 d125-d63
753900881	Reducer LS PE100 SDR17 PN10 d125-d90
753900880	Reducer LS PE100 SDR17 PN10 d125-d110
753900886	Reducer LS PE100 SDR17 PN10 d140-d75
753900887	Reducer LS PE100 SDR17 PN10 d140-d90
753900884	Reducer L PE100 SDR17 PN10 d140-d110
753900885	Reducer L PE100 SDR17 PN10 d140-d125
753900888	Reducer LS PE100 black SDR17 d160-d90
753900890	Reducer LS PE100 SDR17 PN10 d160-d110
753900889	Reducer LS PE100 SDR17 PN10 d160-d125
753900873	Reducer LS PE100 SDR17 PN10 d180-d90
753900874	Reducer LS PE100 black SDR17 d180-d110
753900891	Reducer LS PE100 SDR17 PN10 d180-d125

753900875	Reducer LS PE100 SDR17 PN10 d180-d140
753900832	Reducer LS PE100 SDR17 PN10 d180-d160
753900866	Reducer LS PE100 SDR17 PN10 d200-d140
753900892	Reducer LS PE100 SDR17 PN10 d200-d160
753900893	Reducer LS PE100 SDR17 PN10 d200-d180
753900867	Reducer LS PE100 SDR17 PN10 d225-d140
753900896	Reducer LS PE100 SDR17 PN10 d225-d160
753900895	Reducer LS PE100 SDR17 PN10 d225-d180
753900894	Reducer LS PE100 SDR17 PN10 d225-d200
753900800	Reducer LS PE100 SDR17 PN10 d250-d160
753900868	Reducer LS PE100 SDR17 PN10 d250-d180
753900801	Reducer LS PE100 SDR17 PN10 d250-d200
753900802	Reducer LS PE100 SDR17 PN10 d250-d225
753900898	Reducer LS PE100 SDR17 PN10 d280-d200
753900899	Reducer LS PE100 SDR17 PN10 d280-d225
753900803	Reducer LS PE100 SDR17 PN10 d280-d250
753800897	Reducer PE100 PN10 d315d200
753900807	Reducer LS PE100 SDR17 PN10 d315-d225
753900805	Reducer LS PE100 SDR17 PN10 d315-d250
753900806	Reducer LS PE100 SDR17 PN10 d315-d280
753900808	Reducer LS PE100 SDR17 PN10 d355-d250
753900809	Reducer LS PE100 SDR17 PN10 d355-d280
753900810	Reducer LS PE100 SDR17 PN10 d355-d315
753900811	Reducer LS PE100 SDR17 PN10 d400-d280
753900812	Reducer LS PE100 SDR17 PN10 d400-d315
753900813	Reducer LS PE100 SDR17 PN10 d400-d355
753900814	Reducer LS PE100 SDR17 PN10 d450-d280
753900815	Reducer LS PE100 SDR17 PN10 d450-d315
753900816	Reducer LS PE100 SDR17 PN10 d450-d355
753900817	Reducer LS PE100 SDR17 PN10 d450-d400
753900818	Reducer LS PE100 SDR17 PN10 d500-d315
753900819	Reducer LS PE100 SDR17 PN10 d500-d355
753900820	Reducer LS PE100 SDR17 PN10 d500-d400
753900821	Reducer LS PE100 SDR17 PN10 d500-d450
753900822	Reducer LS PE100 SDR17 PN10 d560-d355
753900823	Reducer LS PE100 SDR17 PN10 d560-d400
753900824	Reducer LS PE100 SDR17 PN10 d560-d450
753900825	Reducer LS PE100 SDR17 PN10 d560-d500
753900826	Reducer LS PE100 SDR17 PN10 d630-d400
753900827	Reducer LS PE100 SDR17 PN10 d630-d450
753900828	Reducer LS PE100 SDR17 PN10 d630-d500
753900829	Reducer LS PE100 SDR17 PN10 d630-d560
753900833	Reducer LS PE100 black SDR17 d710-d500
753900834	Reducer LS PE100 black SDR17 d710-d560
753900835	Reducer LS PE100 black SDR17 d710-d630
753900836	Reducer LS PE100 black SDR17 d800-d560
753900837	Reducer LS PE100 black SDR17 d800-d630
753900838	Reducer LS PE100 black SDR17 d800-d710
753900839	Reducer LS PE100 black SDR17 d900-d630
753900840	Reducer LS PE100 black SDR17 d900-d710
753900841	Reducer LS PE100 black SDR17 d900-d800
753900842	Reducer LS PE100 SDR17 d1000-d710
753900843	Reducer LS PE100 SDR17 d1000-d800

753900844	Reducer LS PE100 SDR17 d1000-d900
753901038	Reducer LS PE100 SDR11 PN16 d25-d20
753901042	Reducer LS PE100 SDR11 PN16 d32-d20
753901041	Reducer LS PE100 SDR11 PN16 d32-d25
753901048	Reducer LS PE100 SDR11 PN16 d40-d20
753901047	Reducer LS PE100 SDR11 PN16 d40-d25
753901046	Reducer LS PE100 SDR11 PN16 d40-d32
753901055	Reducer LS PE100 SDR11 PN16 d50-d20
753901054	Reducer LS PE100 SDR11 PN16 d50-d25
753901053	Reducer LS PE100 SDR11 PN16 d50-d32
753901052	Reducer LS PE100 SDR11 PN16 d50-d40
753901060	Reducer LS PE100 SDR11 PN16 d63-d32
753901059	Reducer LS PE100 SDR11 PN16 d63-d40
753901058	Reducer LS PE100 SDR11 PN16 d63-d50
753901063	Reducer LS PE100 SDR11 PN16 d75-d40
753901064	Reducer LS PE100 SDR11 PN16 d75-d50
753901065	Reducer LS PE100 SDR11 PN16 d75-d63
753901072	Reducer LS PE100 SDR11 PN16 d90-d50
753901071	Reducer LS PE100 SDR11 PN16 d90-d63
753901070	Reducer LS PE100 SDR11 PN16 d90-d75
753901078	Reducer LS PE100 SDR11 PN16 d110-d63
753901077	Reducer LS PE100 SDR11 PN16 d110-d75
753901076	Reducer LS PE100 SDR11 PN16 d110-d90
753901083	Reducer LS PE100 SDR11 PN16 d125-d63
753901082	Reducer LS PE100 SDR11 PN16 d125-d75
753901081	Reducer LS PE100 SDR11 PN16 d125-d90
753901080	Reducer LS PE100 SDR11 PN16 d125-d110
753901086	Reducer LS PE100 black SDR11 d140-d75
753901087	Reducer LS PE100 black SDR11 d140-d90
753901084	Reducer L PE100 SDR11 PN16 d140-d110
753901085	Reducer L PE100 SDR11 PN16 d140-d125
753901088	Reducer LS PE100 SDR11 PN16 d160-d90
753901090	Reducer LS PE100 SDR11 PN16 d160-d110
753901089	Reducer LS PE100 SDR11 PN16 d160-d125
753901032	Reducer LS PE100 black SDR11 d160-d140
753901073	Reducer LS PE100 black SDR11 d180-d90
753901074	Reducer LS PE100 black SDR11 d180-d110
753901091	Reducer LS PE100 SDR11 PN16 d180-d125
753901075	Reducer LS PE100 black SDR11 d180-d140
753901033	Reducer LS PE100 SDR11 PN16 d180-d160
753901066	Reducer LS PE100 black SDR11 d200-d140
753901092	Reducer LS PE100 SDR11 PN16 d200-d160
753901034	Reducer LS PE100 black SDR11 d200-d180
753901067	Reducer LS PE100 black SDR11 d225-d140
753901096	Reducer LS PE100 SDR11 PN16 d225-d160
753901095	Reducer LS PE100 SDR11 PN16 d225-d180
753901094	Reducer LS PE100 SDR11 PN16 d225-d200
753901000	Reducer LS PE100 black SDR11 d250-d160
753901068	Reducer LS PE100 black SDR11 d250-d180
753901001	Reducer LS PE100 black SDR11 d250-d200
753901002	Reducer LS PE100 black SDR11 d250-d225
753901098	Reducer LS PE100 black SDR11 d280-d200
753901099	Reducer LS PE100 black SDR11 d280-d225

753901003	Reducer LS PE100 black SDR11 d280-d250
753901011	Reducer LS PE100 PN16 d315-d200
753901097	Reducer LS PE100 black SDR11 d315-d225
753901005	Reducer LS PE100 black SDR11 d315-d250
753901012	Reducer LS PE100 black SDR11 d315-d280
753901013	Reducer LS PE100 black SDR11 d355-d250
753901014	Reducer LS PE100 black SDR11 d355-d280
753901015	Reducer LS PE100 black SDR11 d355-d315
753901016	Reducer LS PE100 black SDR11 d400-d280
753901017	Reducer LS PE100 black SDR11 d400-d315
753901018	Reducer LS PE100 black SDR11 d400-d355
753901019	Reducer LS PE100 black SDR11 d450-d280
753901020	Reducer LS PE100 black SDR11 d450-d315
753901022	Reducer LS PE100 black SDR11 d450-d355
753901024	Reducer LS PE100 black SDR11 d450-d400
753901025	Reducer LS PE100 black SDR11 d500-d315
753901026	Reducer LS PE100 black SDR11 d500-d355
753901027	Reducer LS PE100 black SDR11 d500-d400
753901029	Reducer LS PE100 black SDR11 d500-d450
753901030	Reducer LS PE100 black SDR11 d560-d355
753901039	Reducer LS PE100 black SDR11 d560-d400
753901040	Reducer LS PE100 black SDR11 d560-d450
753901043	Reducer LS PE100 black SDR11 d560-d500
753901044	Reducer LS PE100 black SDR11 d630-d400
753901045	Reducer LS PE100 black SDR11 d630-d450
753901049	Reducer LS PE100 black SDR11 d630-d500
753901050	Reducer LS PE100 black SDR11 d630-d560
753961006	Cap LS PE100 black SDR11 PN16 d20
753961007	Cap LS PE100 black SDR11 PN16 d25
753961008	Cap LS PE100 black SDR11 PN16 d32
753961009	Cap LS PE100 black SDR11 PN16 d40
753961010	Cap LS PE100 black SDR11 PN16 d50
753961011	Cap LS PE100 black SDR11 PN16 d63
753961012	Cap LS PE100 black SDR11 PN16 d75
753961013	Cap LS PE100 black SDR11 PN16 d90
753961014	Cap LS PE100 black SDR11 PN16 d110
753961015	Cap LS PE100 black SDR11 PN16 d125
753961016	Cap LS PE100 black SDR11 d140
753961017	Cap LS PE100 black SDR11 PN16 d160
753961018	Cap LS PE100 black SDR11 PN16 d180
753961019	Cap LS PE100 black SDR11 PN16 d200
753961020	Cap LS PE100 black SDR11 PN16 d225
753961021	Cap LS PE100 black SDR11 d250
753960922	Cap LS PE100 black SDR11 d280
753960923	Cap LS PE100 black SDR11 d315
753960924	Cap LS PE100 black SDR11 d355
753960925	Cap LS PE100 black SDR11 d400
753960926	Cap LS PE100 black SDR11 d450
753960927	Cap LS PE100 black SDR11 d500
753960928	Cap LS PE100 black SDR11 d560
753960929	Cap LS PE100 black SDR11 d630
753960810	Cap LS PE100 black SDR17 PN10 d50
753960811	Cap LS PE100 black SDR17 PN10 d63

753960812	Cap LS PE100 black SDR17 PN10 d75
753960813	Cap LS PE100 black SDR17 PN10 d90
753960814	Cap LS PE100 black SDR17 PN10 d110
753960815	Cap LS PE100 black SDR17 PN10 d125
753960816	Cap LS PE100 black SDR17 PN10 d140
753960817	Cap LS PE100 black SDR17 PN10 d160
753960818	Cap LS PE100 black SDR17 PN10 d180
753960819	Cap LS PE100 black SDR17 PN10 d200
753960820	Cap LS PE100 black SDR17 PN10 d225
753960821	Cap LS PE100 black SDR17 PN10 d250
753960822	Cap LS PE100 black SDR17 PN10 d280
753960823	Cap LS PE100 black SDR17 PN10 d315
753960824	Cap LS PE100 black SDR17 PN10 d355
753960825	Cap LS PE100 black SDR17 PN10 d400
753960826	Cap LS PE100 black SDR17 PN10 d450
753960827	Cap LS PE100 black SDR17 PN10 d500
753960828	Cap LS PE100 black SDR17 PN10 d560
753960829	Cap LS PE100 black SDR17 PN10 d630
753960830	Cap LS PE100 black SDR17 d710
753960831	Cap LS PE100 black SDR17 d800
753960832	Cap LS PE100 black SDR17 d900
753960833	Cap LS PE100 black SDR17 d1000
753018706	Bend 90° PE100 SDR11 PN16 d20
753018707	Bend 90° PE100 SDR11 PN16 d25
753018708	Bend 90° PE100 SDR11 PN16 d32
753018709	Bend 90° PE100 SDR11 PN16 d40
753018710	Bend 90° PE100 SDR11 PN16 d50
753018711	Bend 90° PE100 SDR11 PN16 d63
753018742	Bend 90° PE100 SDR11 PN16 d75
753018743	Bend 90° PE100 SDR11 PN16 d90
753018744	Bend 90° PE100 SDR11 PN16 d110
753018745	Bend 90° PE100 SDR11 PN16 d125
753018746	Bend 90° PE100 SDR11 PN16 d140
753018747	Bend 90° PE100 SDR11 PN16 d160
753018748	Bend 90° PE100 SDR11 PN16 d180
753018749	Bend 90° PE100 SDR11 PN16 d200
753018750	Bend 90° PE100 SDR11 PN16 d225
753018751	Bend 90° B PE100 SDR11 PN16 d250
753018752	Bend 90° B PE100 SDR11 PN16 d280
753018753	Bend 90° B PE100 SDR11 PN16 d315
753018624	Bend 90° KS PE100 black SDR11 d355
753018625	Bend 90° KS PE100 black SDR11 d400
753018626	Bend 90° KS PE100 black SDR11 d450
753018627	Bend 90° KS PE100 black SDR11 d500
753018635	Bend 90° PE100 SDR17 PN10 d50
753018636	Bend 90° PE100 SDR17 PN10 d63
753018637	Bend 90° PE100 SDR17 PN10 d75
753018638	Bend 90° PE100 SDR17 PN10 d90
753018639	Bend 90° PE100 SDR17 PN10 d110
753018505	Bend 90° PE100 SDR17 PN10 d125
753018506	Bend 90° PE100 SDR17 PN10 d140
753018507	Bend 90° PE100 SDR17 PN10 d160
753018508	Bend 90° PE100 SDR17 PN10 d180

753018509	Bend 90° PE100 SDR17 PN10 d200
753018510	Bend 90° PE100 SDR17 PN10 d225
753018511	Bend 90° B PE100 SDR17.6 PN10 d250
753018512	Bend 90° B PE100 SDR17.6 PN10 d280
753018513	Bend 90° B PE100 SDR17.6 PN10 d315
753018524	Bend 90° KS PE100 black SDR17 d355
753018525	Bend 90° KS PE100 black SDR17 d400
753018526	Bend 90° KS PE100 black SDR17 d450
753018527	Bend 90° KS PE100 black SDR17 d500
753108606	Elbow 90° PE100 SDR11 PN16 d20
753108607	Elbow 90° PE100 SDR11 PN16 d25
753108608	Elbow 90° PE100 SDR11 PN16 d32
753108609	Elbow 90° PE100 SDR11 PN16 d40
753108610	Elbow 90° PE100 SDR11 PN16 d50
753108611	Elbow 90° PE100 SDR11 PN16 d63
753158606	Elbow 45° PE100 SDR11 PN16 d20
753158607	Elbow 45° PE100 SDR11 PN16 d25
753158608	Elbow 45° PE100 SDR11 PN16 d32
753158609	Elbow 45° PE100 SDR11 PN16 d40
753158610	Elbow 45° PE100 SDR11 PN16 d50
753158611	Elbow 45° PE100 SDR11 PN16 d63
753158612	Elbow 45° PE100 SDR11 PN16 d75
753158613	Elbow 45° PE100 SDR11 PN16 d90
753158614	Elbow 45° PE100 SDR11 PN16 d110
753158615	Elbow 45° PE100 SDR11 PN16 d125
753158616	Elbow 45° PE100 SDR11 PN16 d140
753158617	Elbow 45° PE100 SDR11 PN16 d160
753158619	Elbow 45° PE100 SDR11 PN16 d200
753158620	Elbow 45° PE100 SDR11 PN16 d225
753158535	Elbow 45° PE100 SDR17.6 PN10 d50
753158536	Elbow 45° PE100 SDR17.6 PN10 d63
753158412	Elbow 45° PE100 SDR17.6 PN10 d75DN65
753158413	Elbow 45° PE100 SDR17.6 PN10 d90DN80
753158414	Elbow 45° PE100 SDR17.6 PN10 d110DN100
753158540	Elbow 45° PE100 SDR17.6 PN10 d125
753158541	Elbow 45° PE100 SDR17.6 PN10 d140
753158542	Elbow 45° PE100 SDR17.6 PN10 d160
753158544	Elbow 45° PE100 SDR17.6 PN10 d200
753158545	Elbow 45° PE100 SDR17.6 PN10 d225
753208606	T 90° Equal PE100 SDR11 PN16 d20
753208607	T 90° Equal PE100 SDR11 PN16 d25
753208608	T 90° Equal PE100 SDR11 PN16 d32
753208609	T 90° Equal PE100 SDR11 PN16 d40
753208610	T 90° Equal PE100 SDR11 PN16 d50
753208611	T 90° Equal PE100 SDR11 PN16 d63
753208612	T 90° Equal PE100 SDR11 PN16 d75
753208613	T 90° Equal PE100 SDR11 PN16 d90
753208614	T 90° Equal PE100 SDR11 PN16 d110
753208615	T 90° Equal PE100 SDR11 PN16 d125
753208616	T 90° Equal PE100 SDR11 PN16 d140
753208617	T 90° Equal PE100 SDR11 PN16 d160
753208618	T 90° Equal PE100 SDR11 PN16 d180
753208619	T 90° Equal PE100 SDR11 PN16 d200

753208620	T 90° Equal PE100 SDR11 PN16 d225
753208621	T 90° Equal PE100 SDR11 PN16 d250
753208622	T 90° Equal PE100 SDR11 PN16 d280
753208623	T 90° Equal PE100 SDR11 PN16 d315
753208624	T 90° Equal KS PE100 SDR11 PN16 d355
753208625	T 90° Equal KS PE100 SDR11 PN16 d400
753208626	T 90° Equal KS PE100 SDR11 PN16 d450
753208627	T 90° Equal KS PE100 SDR11 PN16 d500
753208351	T 90° Red PE100 SDR11 PN16 d63-d32
753208352	T 90° Red PE100 SDR11 PN16 d63-d50
753208353	T 90° Red PE100 SDR11 PN16 d75-d32
753208354	T 90° Red PE100 SDR11 PN16 d75-d50
753208355	T 90° Red PE100 SDR11 PN16 d75-d63
753208357	T 90° Red PE100 SDR11 PN16 d90-d50
753208358	T 90° Red PE100 SDR11 PN16 d90-d63
753208359	T 90° Red PE100 SDR11 PN16 d90-d75
753208360	T 90° Red PE100 SDR11 PN16 d110-d32
753208361	T 90° Red PE100 SDR11 PN16 d110-d50
753208362	T 90° Red PE100 SDR11 PN16 d110-d63
753208363	T 90° Red PE100 SDR11 PN16 d110-d75
753208364	T 90° Red PE100 SDR11 PN16 d110-d90
753208371	T 90° Red PE100 SDR11 PN16 d160-d63
753208372	T 90° Red PE100 SDR11 PN16 d160-d75
753208373	T 90° Red PE100 SDR11 PN16 d160-d90
753208374	T 90° Red PE100 SDR11 PN16 d160-d150
753208388	T 90° Red PE100 SDR11 PN16 d225-d90
753208389	T 90° Red PE100 SDR11 PN16 d225-d110
753208391	T 90° Red PE100 SDR11 PN16 d225-d160
753208301	T 90° Red PE100 SDR17.6 PN10 d63-d32
753208302	T 90° Red PE100 SDR17.6 PN10 d63-d50
753208303	T 90° Red PE100 SDR17.6 PN10 d75-d32
753208304	T 90° Red PE100 SDR17.6 PN10 d75-d50
753208305	T 90° Red PE100 SDR17.6 PN10 d75-d63
753208307	T 90° Red PE100 SDR17.6 PN10 d90-d50
753208308	T 90° Red PE100 SDR17.6 PN10 d90-d63
753208309	T 90° Red PE100 SDR17.6 PN10 d90-d75
753208310	T 90° Red PE100 SDR17.6 PN10 d110-d32
753208311	T 90° Red PE100 SDR17.6 PN10 d110-d50
753208312	T 90° Red PE100 SDR17.6 PN10 d110-d63
753208313	T 90° Red PE100 SDR17.6 PN10 d110-d75
753208314	T 90° Red PE100 SDR17.6 PN10 d110-d90
753208321	T 90° Red PE100 SDR17.6 PN10 d160-d63
753208322	T 90° Red PE100 SDR17.6 PN10 d160-d75
753208323	T 90° Red PE100 SDR17.6 PN10 d160-d90
753208324	T 90° Red PE100 SDR17.6 PN10 d160-d110
753208338	T 90° Red PE100 SDR17.6 PN10 d225-d90
753208339	T 90° Red PE100 SDR17.6 PN10 d225-d110
753208341	T 90° Red PE100 SDR17.6 PN10 d225-d160
753208510	T 90° Equal PE100 SDR17.6 PN10 d50
753208511	T 90° Equal PE100 SDR17.6 PN10 d63
753208412	T 90° Equal PE100 SDR17.6 PN10 d75DN65
753208413	T 90° Equal PE100 SDR17.6 PN10 d90DN80
753208414	T 90° Equal PE100 SDR17.6 PN10 d110DN100

753208515	T 90° Equal PE100 SDR17.6 PN10 d125
753208516	T 90° Equal PE100 SDR17.6 PN10 d140
753208517	T 90° Equal PE100 SDR17.6 PN10 d160
753208518	T 90° Equal PE100 SDR17.6 PN10 d180
753208519	T 90° Equal PE100 SDR17.6 PN10 d200
753208520	T 90° Equal PE100 SDR17.6 PN10 d225
753208521	T 90° Equal PE100 SDR17.6 PN10 d250
753208522	T 90° Equal PE100 SDR17.6 PN10 d280
753208523	T 90° Equal PE100 SDR17.6 PN10 d315
753208524	T 90° Equal KS PE100 SDR17 PN10 d355
753208525	T 90° Equal KS PE100 SDR17 PN10 d400
753208526	T 90° Equal KS PE100 SDR17 PN10 d450
753208527	T 90° Equal KS PE100 SDR17 PN10 d500
753908637	Reducer PE100 SDR11 PN16 d25-d20
753908642	Reducer PE100 SDR11 PN16 d32-d20
753908641	Reducer PE100 SDR11 PN16 d32-d25
753908648	Reducer PE100 SDR11 PN16 d40-d20
753908647	Reducer PE100 SDR11 PN16 d40-d25
753908646	Reducer PE100 SDR11 PN16 d40-d32
753908654	Reducer PE100 SDR11 PN16 d50-d25
753908653	Reducer PE100 SDR11 PN16 d50-d32
753908652	Reducer PE100 SDR11 PN16 d50-d40
753908660	Reducer PE100 SDR11 PN16 d63-d32
753908659	Reducer PE100 SDR11 PN16 d63-d40
753908658	Reducer PE100 SDR11 PN16 d63-d50
753908666	Reducer PE100 SDR11 PN16 d75-d40
753908665	Reducer PE100 SDR11 PN16 d75-d50
753908664	Reducer PE100 SDR11 PN16 d75-d63
753908671	Reducer PE100 SDR11 PN16 d90-d63
753908670	Reducer PE100 SDR11 PN16 d90-d75
753908677	Reducer PE100 SDR11 PN16 d110-d75
753908676	Reducer PE100 SDR11 PN16 d110-d90
753908680	Reducer PE100 SDR11 PN16 d125-d110
753908685	Reducer PE100 SDR11 PN16 d140-d110
753908684	Reducer PE100 SDR11 PN16 d140-d125
753908690	Reducer PE100 SDR11 PN16 d160-d110
753908688	Reducer PE100 SDR11 PN16 d160-d140
753908149	Reducer PE100 SDR11 PN16 d180-d90
753908150	Reducer PE100 SDR11 PN16 d180-d110
753908151	Reducer PE100 SDR11 PN16 d180-d125
753908152	Reducer PE100 SDR11 PN16 d180-d140
753908153	Reducer PE100 SDR11 PN16 d180-d160
753908692	Reducer PE100 SDR11 PN16 d200-d160
753908158	Reducer PE100 SDR11 PN16 d200-d180
753908695	Reducer PE100 SDR11 PN16 d225-d110
753908696	Reducer PE100 SDR11 PN16 d225-d160
753908162	Reducer PE100 SDR11 PN16 d225-d180
753908697	Reducer PE100 SDR11 PN16 d225-d200
753908165	Reducer PE100 SDR11 PN16 d250-d160
753900001	Reducer KS PE100 SDR11 d250-d180
753900002	Reducer KS PE100 SDR11 d250-d200
753908168	Reducer PE100 SDR11 PN16 d250-d225
753900004	Reducer KS PE100 SDR11 d280-d200

753908172	Reducer PE100 SDR11 PN16 d280-d225
753908173	Reducer PE100 SDR11 PN16 d280-d250
753900007	Reducer KS PE100 SDR11 d315-d200
753908176	Reducer PE100 SDR11 PN16 d315-d225
753908177	Reducer PE100 SDR11 PN16 d315-d250
753908178	Reducer PE100 SDR11 PN16 d315-d280
753909809	Flu Sty Red PE100 SDR11 PN16 d355-d225
753909810	Flu Sty Red PE100 SDR11 PN16 d355-d250
753909811	Flu Sty Red PE100 SDR11 PN16 d355-d280
753909812	Flu Sty Red PE100 SDR11 PN16 d355-d315
753909816	Flu Sty Red PE100 SDR11 PN16 d400-d225
753909817	Flu Sty Red PE100 SDR11 PN16 d400-d250
753909818	Flu Sty Red PE100 SDR11 PN16 d400-d280
753909819	Flu Sty Red PE100 SDR11 PN16 d400-d315
753909820	Flu Sty Red PE100 SDR11 PN16 d400-d355
753909824	Flu Sty Red PE100 SDR11 PN16 d450-d280
753909825	Flu Sty Red PE100 SDR11 PN16 d450-d315
753909826	Flu Sty Red PE100 SDR11 PN16 d450-d355
753909827	Flu Sty Red PE100 SDR11 PN16 d450-d400
753909832	Flu Sty Red PE100 SDR11 PN16 d500-d315
753909833	Flu Sty Red PE100 SDR11 PN16 d500-d355
753909834	Flu Sty Red PE100 SDR11 PN16 d500-d400
753909835	Flu Sty Red PE100 SDR11 PN16 d500-d450
753900035	Reducer KS PE100 black SDR11 d710-d500
753900036	Reducer KS PE100 black SDR11 d710-d560
753900037	Reducer KS PE100 black SDR11 d710-d630
753908713	Reducer PE100 SDR17.6 PN10 d50-d40
753908927	Reducer PE100 SDR17.6 PN10 d63-d40
753908718	Reducer PE100 SDR17.6 PN10 d63-d50
753908904	Reducer PE100 SDR17.6 PN10 d75-d40
753908465	Red Conc PE100 SDR17.6 PN10 d75-d50
753908464	Red Conc PE100 SDR17.6 PN10 d75-d63
753908471	Red Conc PE100 SDR17.6 PN10 d90-d63
753908470	Red Conc PE100 SDR17.6 PN10 d90-d75
753908477	Red Conc PE100 SDR17.6 PN10 d110-d75
753908476	Red Conc PE100 SDR17.6 PN10 d110-d90
753908738	Reducer PE100 SDR17.6 PN10 d125-d110
753908742	Reducer PE100 SDR17.6 PN10 d140-d110
753908743	Reducer PE100 SDR17.6 PN10 d140-d125
753908746	Reducer PE100 SDR17.6 PN10 d160-d110
753908748	Reducer PE100 SDR17.6 PN10 d160-d140
753908749	Reducer PE100 SDR17.6 PN10 d180-d90
753908750	Reducer PE100 SDR17.6 PN10 d180-d110
753908751	Reducer PE100 SDR17.6 PN10 d180-d125
753908752	Reducer PE100 SDR17.6 PN10 d180-d140
753908753	Reducer PE100 SDR17.6 PN10 d180-d160
753908931	Reducer PE100 SDR17.6 PN10 d200-d160
753908758	Reducer PE100 SDR17.6 PN10 d200-d180
753908938	Reducer PE100 SDR17.6 PN10 d225-d110
753908933	Reducer PE100 SDR17.6 PN10 d225-d160
753908762	Reducer PE100 SDR17.6 PN10 d225-d180
753908932	Reducer PE100 SDR17.6 PN10 d225-d200
753908765	Reducer PE100 SDR17.6 PN10 d250-d160

753902801	Reducer KS PE100 SDR17 d250-d180
753902802	Reducer KS PE100 SDR17 d250-d200
753908768	Reducer PE100 SDR17.6 PN10 d250-d225
753902804	Reducer KS PE100 SDR17 d280-d200
753908772	Reducer PE100 SDR17.6 PN10 d280-d225
753908773	Reducer PE100 SDR17.6 PN10 d280-d250
753902807	Reducer KS PE100 SDR17 d315-d200
753908776	Reducer PE100 SDR17.6 PN10 d315-d225
753908777	Reducer PE100 SDR17.6 PN10 d315-d250
753908778	Reducer PE100 SDR17.6 PN10 d315-d280
753909859	Flu Sty Red PE100 SDR17 PN10 d355-d225
753909860	Flu Sty Red PE100 SDR17 PN10 d355-d250
753909861	Flu Sty Red PE100 SDR17 PN10 d355-d280
753909862	Flu Sty Red PE100 SDR17 PN10 d355-d315
753909866	Flu Sty Red PE100 SDR17 PN10 d400-d225
753909867	Flu Sty Red PE100 SDR17 PN10 d400-d250
753909868	Flu Sty Red PE100 SDR17 PN10 d400-d280
753909869	Flu Sty Red PE100 SDR17 PN10 d400-d315
753909870	Flu Sty Red PE100 SDR17 PN10 d400-d355
753909874	Flu Sty Red PE100 SDR17 PN10 d450-d280
753909875	Flu Sty Red PE100 SDR17 PN10 d450-d315
753909876	Flu Sty Red PE100 SDR17 PN10 d450-d355
753909877	Flu Sty Red PE100 SDR17 PN10 d450-d400
753909882	Flu Sty Red PE100 SDR17 PN10 d500-d315
753909883	Flu Sty Red PE100 SDR17 PN10 d500-d355
753909884	Flu Sty Red PE100 SDR17 PN10 d500-d400
753909885	Flu Sty Red PE100 SDR17 PN10 d500-d450
753909888	Flu Sty Red PE100 SDR17 PN10 d560-d400
753909889	Flu Sty Red PE100 SDR17 PN10 d560-d450
753909890	Flu Sty Red PE100 SDR17 PN10 d560-d500
753909893	Flu Sty Red PE100 SDR17 PN10 d630-d400
753909894	Flu Sty Red PE100 SDR17 PN10 d630-d450
753909895	Flu Sty Red PE100 SDR17 PN10 d630-d500
753909896	Flu Sty Red PE100 SDR17 PN10 d630-d560
753902835	Reducer KS PE100 black SDR17 d710-d500
753902836	Reducer KS PE100 black SDR17 d710-d560
753902837	Reducer KS PE100 black SDR17 d710-d630
753902838	Reducer KS PE100 black SDR17 d800-d560
753902839	Reducer KS PE100 black SDR17 d800-d630
753902840	Reducer KS PE100 black SDR17 d800-d710
753902841	Reducer KS PE100 black SDR17 d900-d630
753902842	Reducer KS PE100 black SDR17 d900-d710
753902843	Reducer KS PE100 black SDR17 d900-d800
753902844	Reducer KS PE100 SDR17 d1000-d710
753902845	Reducer KS PE100 SDR17 d1000-d800
753902846	Reducer KS PE100 SDR17 d1000-d900
700647600	Reduction eccentric SDR11 PE100 d63-50
700647601	Reduction eccentric SDR11 PE100 d75-50
700647602	Reduction eccentric SDR11 PE100 d75-63
700647603	Reduction eccentric SDR11 PE100 d90-63
700647604	Reduction eccentric SDR11 PE100 d90-75
700647605	Reduction eccentric SDR11 PE100 d110-75
700647606	Reduction eccentric SDR11 PE100 d110-90

700647607	Reduction eccentric SDR11 PE100 d125-90
700647608	Reduction eccentric SDR11 PE100 d125-110
700647609	Reduction eccentric SDR11 PE100 d140-90
700647610	Reduction eccentric SDR11 PE100 d140-110
700647611	Reduction eccentric SDR11 PE100 d160-90
700647612	Reduction eccentric SDR11 PE100 d160-110
700647613	Reduction eccentric SDR11 PE100 d160-125
700647614	Reduction eccentric SDR11 PE100 d160-140
700647615	Reduction eccentric SDR11 PE100 d180-125
700647616	Reduction eccentric SDR11 PE100 d180-140
700647617	Reduction eccentric SDR11 PE100 d180-160
700647618	Reduction eccentric SDR11 PE100 d200-140
700647619	Reduction eccentric SDR11 PE100 d200-160
700647620	Reduction eccentric SDR11 PE100 d200-180
700647621	Reduction eccentric SDR11 PE100 d225-160
700647622	Reduction eccentric SDR11 PE100 d225-180
700647623	Reduction eccentric SDR11 PE100 d225-200
700647624	Reduction eccentric SDR11 PE100 d250-180
700647625	Reduction eccentric SDR11 PE100 d250-200
700647626	Reduction eccentric SDR11 PE100 d250-225
700647627	Reduction eccentric SDR11 PE100 d280-200
700647628	Reduction eccentric SDR11 PE100 d280-225
700647629	Reduction eccentric SDR11 PE100 d280-250
700647630	Reduction eccentric SDR11 PE100 d315-225
700647631	Reduction eccentric SDR11 PE100 d315-250
700647632	Reduction eccentric SDR11 PE100 d315-280
700647633	Reduction eccentric SDR11 PE100 d355-250
700647634	Reduction eccentric SDR11 PE100 d355-280
700647635	Reduction eccentric SDR11 PE100 d355-315
700647636	Reduction eccentric SDR11 PE100 d400-280
700647637	Reduction eccentric SDR11 PE100 d400-315
700647638	Reduction eccentric SDR11 PE100 d400-355
700647639	Reduction eccentric SDR11 PE100 d450-315
700647640	Reduction eccentric SDR11 PE100 d450-355
700647641	Reduction eccentric SDR11 PE100 d450-400
700647642	Reduction eccentric SDR11 PE100 d500-315
700647643	Reduction eccentric SDR11 PE100 d500-355
700647644	Reduction eccentric SDR11 PE100 d500-400
700647645	Reduction eccentric SDR11 PE100 d500-450
700647646	Reduction eccentric SDR11 PE100 d560-450
700647647	Reduction eccentric SDR11 PE100 d560-500
700647648	Reduction eccentric SDR11 PE100 d630-500
700647649	Reduction eccentric SDR11 PE100 d630-560
700647650	Reduction eccentric SDR176 PE100 d63-50
700647651	Reduction eccentric SDR176 PE100 d75-50
700647652	Reduction eccentric SDR176 PE100 d75-63
700647653	Reduction eccentric SDR176 PE100 d90-63
700647654	Reduction eccentric SDR176 PE100 d90-75
700647655	Reduction eccentric SDR176 PE100 d110-75
700647656	Reduction eccentric SDR176 PE100 d110-90
700647657	Reduction eccentric SDR176 PE100 d125-90
700647658	Reduction eccentric SDR176 PE100 d125-110
700647659	Reduction eccentric SDR176 PE100 d140-90

700647660	Reduction eccentr SDR176 PE100 d140-110
700647661	Reducer PE100 SDR17.6 d160-90
700647662	Reduction eccentr SDR176 PE100 d160-110
700647663	Reduction eccentr SDR176 PE100 d160-125
700647664	Reduction eccentr SDR176 PE100 d160-140
700647665	Reduction eccentr SDR176 PE100 d180-125
700647666	Reduction eccentr SDR176 PE100 d180-140
700647667	Reduction eccentr SDR176 PE100 d180-160
700647668	Reduction eccentr SDR176 PE100 d200-140
700647669	Reduction eccentr SDR176 PE100 d200-160
700647670	Reduktion exz. SDR176 PE100 d200-180
700647671	Reduktion exz. SDR176 PE100 d225-160
700647672	Reduktion exz. SDR176 PE100 d225-180
700647673	Reduktion exz. SDR176 PE100 d225-200
700647674	Reduktion exz. SDR176 PE100 d250-180
700647675	Reduktion exz. SDR176 PE100 d250-200
700647676	Reduction eccentri SDR176 PE100 d250-225
700647677	Reduktion exz. SDR176 PE100 d280-200
700647678	Reduction eccentri SDR176 PE100 d280-225
700647679	Reduktion exz. SDR176 PE100 d280-250
700647680	Reduktion exz. SDR176 PE100 d315-225
700647681	Reduktion exz. SDR176 PE100 d315-250
700647682	Reduktion exz. SDR176 PE100 d315-280
700647683	Reduction eccentri SDR176 PE100 d355-250
700647684	Reduktion exz. SDR176 PE100 d355-280
700647685	Reduktion exz. SDR176 PE100 d355-315
700647686	Reduction eccentri SDR176 PE100 d400-280
700647687	Reduktion exz. SDR176 PE100 d400-315
700647688	Reduktion exz. SDR176 PE100 d400-355
700647689	Reduktion exz. SDR176 PE100 d450-315
700647690	Reduktion exz. SDR176 PE100 d450-355
700647691	Reduktion exz. SDR176 PE100 d450-400
700647692	Reduktion exz. SDR176 PE100 d500-315
700647693	Reduktion exz. SDR176 PE100 d500-355
700647694	Reduktion exz. SDR176 PE100 d500-400
700647695	Reduktion exz. SDR176 PE100 d500-450
700647696	Reduktion exz. SDR176 PE100 d560-450
700647697	Reduktion exz. SDR176 PE100 d560-500
700647698	Reduktion exz. SDR176 PE100 d630-500
700647699	Reduktion exz. SDR176 PE100 d630-560
753800006	FI Adapter LS PE100 SDR11 PN16/10 d20
753800007	FI Adapter LS PE100 SDR11 PN16 d25
753800008	FI Adapter LS PE100 SDR11 PN16 d32
753800009	FI Adapter LS PE100 SDR11 PN16 d40
753800010	FI Adapter LS PE100 SDR11 PN16 d50
753800011	FI Adapter LS PE100 SDR11 PN16 d63
753800012	FI Adapter LS PE100 SDR11 PN16 d75
753800013	FI Adapter LS PE100 SDR11 PN16 d90
753800014	FI Adapter LS PE100 SDR11 PN16 d110
753800015	FI Adapter LS PE100 SDR11 PN16 d125
753800016	FI Adapter LS PE100 SDR11 PN16 d140
753800017	FI Adapter LS PE100 SDR11 PN16 d160
753800018	FI Adapter LS PE100 SDR11 PN16 d180

753800019	FI Adapter LS PE100 SDR11 PN16 d200
753800020	FI Adapter LS PE100 SDR11 PN16 d225
753800021	FI Adapter LS PE100 SDR11 PN16/10 d250
753800022	FI Adapter LS PE100 SDR11 PN16/10 d280
753800023	FI Adapter LS PE100 SDR11 PN16/10 d315
753800224	FI Adapter LS PE100 black SDR11 d355
753800225	FI Adapter LS PE100 black SDR11 d400
753800226	FI Adapter LS PE100 black SDR11 d450
753800227	FI Adapter LS PE100 black SDR11 d500
753800228	FI Adapter LS PE100 SDR11 PN16 d560
753800229	FI Adapter LS PE100 SDR11 PN16 d630
753800030	FI Adapter LS PE100 black SDR11 d710
753800033	FI Adapter LS PE100 black SDR11 d800
753800085	FI Adapter LS PE100 SDR17 PN10 d50
753800086	FI Adapter LS PE100 SDR17 PN10 d63
753800087	FI Adapter LS PE100 SDR17 PN10 d75
753800088	FI Adapter LS PE100 SDR17 PN10 d90
753800089	FI Adapter LS PE100 SDR17 PN10 d110
753800090	FI Adapter LS PE100 SDR17 PN10 d125
753800091	FI Adapter LS PE100 SDR17 PN10 d140
753800092	FI Adapter LS PE100 SDR17 PN10 d160
753800093	FI Adapter LS PE100 SDR17 PN10 d180
753800094	FI Adapter LS PE100 SDR17 PN10 d200
753800095	FI Adapter LS PE100 SDR17 PN10 d225
753800096	FI Adapter LS PE100 SDR17 PN10 d250
753800097	FI Adapter LS PE100 SDR17 PN10 d280
753800098	FI Adapter LS PE100 SDR17 PN10/6 d315
753800299	FI Adapter LS PE100 black SDR17 d355
753800300	FI Adapter LS PE100 black SDR17 d400
753800301	FI Adapter LS PE100 black SDR17 d450
753800302	FI Adapter LS PE100 black SDR17 d500
753800303	FI Adapter LS PE100 SDR17 PN10 d560
753800304	FI Adapter LS PE100 SDR17 PN10 d630
753800105	FI Adapter LS PE100 black SDR17 d710
753800106	FI Adapter LS PE100 black SDR17 d800
753800107	FI Adapter LS PE100 black SDR17 d900
753800108	FI Adapter LS PE100 black SDR17 d1000
753798306	FI Ad short PE100 SDR11 PN16 d20DN15
753798307	FI Ad short PE100 SDR11 PN16 d25DN20
753798308	FI Ad short PE100 SDR11 PN16 d32DN25
753798309	FI Ad short PE100 SDR11 PN16 d40DN32
753798310	FI Ad short PE100 SDR11 PN16 d50DN40
753798311	FI Ad short PE100 SDR11 PN16 d63DN50
753798312	FI Ad short PE100 SDR11 PN16 d75DN65
753798313	FI Ad short PE100 SDR11 PN16 d90DN80
753798314	FI Ad short PE100 SDR11 PN16 d110DN100
753798315	FI Ad short PE100 SDR11 PN16 d125DN100
753798316	FI Ad short PE100 SDR11 PN16 d140DN125
753798317	FI Ad short PE100 SDR11 PN16 d160DN150
753798318	FI Ad short PE100 SDR11 PN16 d180DN150
753798319	FI Ad short PE100 SDR11 PN16 d200DN200
753798320	FI Ad short PE100 SDR11 PN16 d225DN200
753798321	FI Ad short PE100 SDR11 PN16 d250DN250

753798322	FI Ad short PE100 SDR11 PN16 d280DN250
753798323	FI Ad short PE100 SDR11 PN16 d315DN300
753798324	FI Adapter PE100 SDR11 PN16 d355DN350
753798325	FI Adapter PE100 SDR11 PN16 d400DN400
753798326	FI Adapter PE100 SDR11 PN16 d450DN500
753798327	FI Adapter PE100 SDR11 PN16 d500DN500
753798833	FI Ad short PE100 SDR11 PN16 d560
753798834	FI Ad short PE100 SDR11 PN16 d630
753798835	FI Ad short KS PE100 SDR11 PN16 d710
753798836	FI Ad short KS PE100 SDR11 PN15 d800
753798210	FI Ad short PE100 SDR17 PN10 d50DN40
753798211	FI Ad short PE100 SDR17 PN10 d63DN50
753798212	FI Ad short PE100 SDR17 PN10 d75DN65
753798213	FI Ad short PE100 SDR17 PN10 d90DN80
753798214	FI Ad short PE100 SDR17 PN10 d110DN100
753798215	FI Ad short PE100 SDR17 PN10 d125DN100
753798216	FI Ad short PE100 SDR17 PN10 d140DN125
753798217	FI Ad short PE100 SDR17 PN10 d160DN150
753798218	FI Ad short PE100 SDR17 PN10 d180DN150
753798219	FI Ad short PE100 SDR17 PN10 d200DN200
753798220	FI Ad short PE100 SDR17 PN10 d225DN200
753798221	FI Ad short PE100 SDR17 PN10 d250DN250
753798222	FI Ad short PE100 SDR17 PN10 d280DN250
753798223	FI Ad short PE100 SDR17 PN10 d315DN300
753798224	FI Adapter PE100 SDR17 PN10 d355DN350
753798225	FI Adapter PE100 SDR17 PN10 d400DN400
753798226	FI Adapter PE100 SDR17 PN10 d450DN500
753798227	FI Adapter PE100 SDR17 PN10 d500DN500
753798858	FI Ad short PE100 SDR17 PN10 d560
753798859	FI Ad short PE100 SDR17 PN10 d630
753798860	FI Ad short KS PE100 SDR17 PN10 d710
753798861	FI Ad short KS PE100 SDR17 PN10 d800
753798862	FI Ad short KS PE100 SDR17 PN10 d900
753798863	FI Ad short KS PE100 SDR17 PN10 d1000
753798924	Adapt valve PE100 SDR11 PN16 d355DN350
753798925	Adapt valve PE100 SDR11 PN16 d400DN400
753798926	Adapt valve PE100 SDR11 PN16 d450DN450
753798927	Adapt valve PE100 SDR11 PN16 d500DN500
753798728	Adapt valve PE100 SDR11 PN10 d560DN600
753798729	Adapt valve PE100 SDR11 PN16 d630DN600
753798730	Adapt valve PE100 SDR11 PN16 d710DN700
753798731	Adapt valve PE100 SDR11 PN16 d800DN800
753798951	Adapt valve PE100 SDR17 PN10 d450DN450
753798952	Adapt valve PE100 SDR17 PN10 d500DN500
753798753	Adapt valve PE100 SDR17 PN10 d560DN600
753798754	Adapt valve PE100 SDR17 PN10 d630DN600
753798755	Adapt valve PE100 SDR17 PN10 d710DN700
753798756	Adapt valve PE100 SDR17 PN10 d800DN800
753798757	Adapt valve PE100 SDR17 PN10 d900DN900
753798758	Adapt valve PE100 SDR17 PN10 d1000DN1000
753798759	Adapt valve PE100 SDR17 PN10 d1200DN1200
727700206	Back Flange PPST PPGF PN16 d20DN15
727700207	Back Flange PPST PPGF PN16 d25DN20

727700208	Back Flange PPST PPGF PN16 d32DN25
727700209	Back Flange PPST PPGF PN16 d40DN32
727700210	Back Flange PPST PPGF PN16 d50DN40
727700211	Back Flange PPST PPGF PN16 d63DN50
727700212	Back Flange PPST PPGF PN16 d75DN65
727700313	Back Flange PPST PPGF PN16 d90DN80
727700314	Back Flange PPST PPGF PN16 d110DN100
727700315	Back Flange PPST PPGF PN16 d125DN100
727700716	Back Flange PPST PPGF PN16 d140DN125
727700717	Back Flange PPST PPGF PN16 d160-6" DN150
727700718	Back Flange PPST PPGF PN16 d180DN150
727700719	Back Flange PPST PPGF PN16 d200-8" DN200
727700720	Back Flange PPST PPGF PN16 d225-8"
727700721	Back Flange PPST PPGF PN16 d250DN250
727700722	Back Flange PPST PPGF PN16 d280DN250
727700723	Back Flange PPST PPGF PN16 d315DN300
727700724	Back Flange PPST PPGF PN16 d355DN350
727700725	Back Flange PPST PPGF PN16 d400DN400
724705026	Flange ST PN10 d450DN450
724700426	Back Flange PPST PP PN10 d450DN500
724700427	Back Flange PPST PP PN10 d500DN500
724700428	Back Flange PPST PP PN10 d560DN600
724700319	Back Flange PPST black PN16 d200DN200
724700320	Back Flange PPST black PN16 d225DN200
724700321	Back Flange PPST black PN16 d250DN250
724700322	Back Flange PPST black PN16 d280DN250
724700323	Back Flange PPST black PN16 d315DN300
724700324	Back Flange PPST black PN16 d355DN350
724700325	Back Flange PPST black PN16 d400DN400
724700429	Back Flange PPST PN10 d630DN600
724700430	Back Flange PPST PP PN6 d710DN700
724700431	Back Flange PPST PP PN6 d800DN800
724700432	Back Flange PPST PP PN6 d900DN900
748400305	Flat Gasket EPDM PN10 d16DN10
748400306	Flat Gasket EPDM PN10 d20DN15
748400307	Flat Gasket EPDM PN10 d25DN20
748400308	Flat Gasket EPDM PN10 d32DN25
748400309	Flat Gasket EPDM PN10 d40DN32
748400310	Flat Gasket EPDM PN10 d50DN40
748400311	Flat Gasket EPDM PN10 d63DN50
748400312	Flat Gasket EPDM PN10 d75DN65
748400313	Flat Gasket EPDM PN10 d90DN80
748400314	Flat Gasket EPDM PN10 d110DN100
748400315	Flat Gasket EPDM PN10 d125DN100
748400316	Flat Gasket EPDM PN10 d140DN125
748400317	Flat Gasket EPDM d160-d180 DN150
748400319	Flat Gasket EPDM PN6 d200DN200
748400320	Flat Gasket EPDM PN6 d225DN200
748400321	Flat Gasket EPDM PN6 d250DN250
748400322	Flat Gasket EPDM PN6 d280DN250
748400323	Flat Gasket EPDM PN6 d315DN300
748440730	FI Gasket EPDM PN6 d710DN700
748440731	FI Gasket EPDM PN6 d800DN800

748440732	FI Gasket EPDM PN6 d900DN900
748440733	FI Gasket EPDM PN6 d1000DN1000
748440709	FI Gasket EPDM PN16 d40DN32
748440710	FI Gasket EPDM PN16 d50DN40
748440711	FI Gasket EPDM PN16 d63DN50
748440712	FI Gasket EPDM PN16 d75DN65
748442713	FI Gasket EPDM PN16 d90DN80
748442714	FI Gasket EPDM PN16 d110DN100
748442715	FI Gasket EPDM PN16 d125DN100
748442716	FI Gasket EPDM PN16 d140DN125
748442717	FI Gasket EPDM d160-d180 DN150
748442719	FI Gasket EPDM PN16 d200DN200
748442720	FI Gasket EPDM PN16 d225DN200
748442721	FI Gasket EPDM PN16 d250DN250
748442722	FI Gasket EPDM PN16 d280DN250
748442723	FI Gasket EPDM PN16 d315DN300

PRODUCTO	DESCRIPCION
709305010	MJ3007+ 50M x 50M A4 NBR PN16
709305012	MJ3007+ 65M x 65M A4 NBR PN16
709305014	MJ3007+ 80M x 80M A4 NBR PN16
709305016	MJ3007+ 100M x 100M A4 NBR PN16
709305018	MJ3007+ 125M x 125M A4 NBR PN16
709305020	MJ3007+ 150M x 150M A4 NBR PN16
709305024	MJ3007+ 200M x 200M A4 NBR PN16
709305026	MJ3007+ 225M x 225M A4 NBR PN16
709305028	MJ3007+ 250M x 250M A4 NBR PN16
709305032	MJ3007+ 300M x 300M A4 NBR PN16
709305036	MJ3007+ 350M x 350M A4 NBR PN10
709305040	MJ3007+ 400M x 400M A4 NBR PN10
709305042	MJ3007+ 425M x 425M A4 NBR PN10
709305072	MJ3007+ 450M x 450M A4 NBR PN10
709305073	MJ3007+ 475M x 475M A4 NBR PN10
709305074	MJ3007+ 500M x 500M A4 NBR PN10
709305076	MJ3007+ 550M x 550M A4 NBR PN10
709305078	MJ3007+ 600M x 600M A4 NBR PN10
709305210	MJ3007+ 50M x 50M A2 NBR PN16
709305212	MJ3007+ 65M x 65M A2 NBR PN16
709305214	MJ3007+ 80M x 80M A2 NBR PN16
709305216	MJ3007+ 100M x 100M A2 NBR PN16
709305218	MJ3007+ 125M x 125M A2 NBR PN16
709305220	MJ3007+ 150M x 150M A2 NBR PN16
709305224	MJ3007+ 200M x 200M A2 NBR PN16
709305226	MJ3007+ 225M x 225M A2 NBR PN16
709305228	MJ3007+ 250M x 250M A2 NBR PN16
709305232	MJ3007+ 300M x 300M A2 NBR PN16
709305236	MJ3007+ 350M x 350M A2 NBR PN10
709305240	MJ3007+ 400M x 400M A2 NBR PN10
709305242	MJ3007+ 425M x 425M A2 NBR PN10

709305272	MJ3007+ 450M x 450M A2 NBR PN10
709305273	MJ3007+ 475M x 475M A2 NBR PN10
709305274	MJ3007+ 500M x 500M A2 NBR PN10
709305276	MJ3007+ 550M x 550M A2 NBR PN10
709305278	MJ3007+ 600M x 600M A2 NBR PN10
709305310	MJ3007+ 50M x 50M A4 EPDM PN16
709305312	MJ3007+ 65M x 65M A4 EPDM PN16
709305314	MJ3007+ 80M x 80M A4 EPDM PN16
709305316	MJ3007+ 100M x 100M A4 EPDM PN16
709305318	MJ3007+ 125M x 125M A4 EPDM PN16
709305320	MJ3007+ 150M x 150M A4 EPDM PN16
709305324	MJ3007+ 200M x 200M A4 EPDM PN16
709305326	MJ3007+ 225M x 225M A4 EPDM PN16
709305328	MJ3007+ 250M x 250M A4 EPDM PN16
709305332	MJ3007+ 300M x 300M A4 EPDM PN16
709305336	MJ3007+ 350M x 350M A4 EPDM PN10
709305340	MJ3007+ 400M x 400M A4 EPDM PN10
709305342	MJ3007+ 425M x 425M A4 EPDM PN10
709305372	MJ3007+ 450M x 450M A4 EPDM PN10
709305373	MJ3007+ 475M x 475M A4 EPDM PN10
709305374	MJ3007+ 500M x 500M A4 EPDM PN10
709305376	MJ3007+ 550M x 550M A4 EPDM PN10
709305378	MJ3007+ 600M x 600M A4 EPDM PN10
709305610	MJ3007+ 50M x 50M A2 EPDM PN16
709305612	MJ3007+ 65M x 65M A2 EPDM PN16
709305614	MJ3007+ 80M x 80M A2 EPDM PN16
709305616	MJ3007+ 100M x 100M A2 EPDM PN16
709305618	MJ3007+ 125M x 125M A2 EPDM PN16
709305620	MJ3007+ 150M x 150M A2 EPDM PN16
709305624	MJ3007+ 200M x 200M A2 EPDMPN16
709305626	MJ3007+ 225M x 225M A2 EPDM PN16
709305628	MJ3007+ 250M x 250M A2 EPDM PN16
709305632	MJ3007+ 300M x 300M A2 EPDM PN16
709305636	MJ3007+ 350M x 350M A2 EPDM PN10
709305640	MJ3007+ 400M x 400M A2 EPDM PN10
709305642	MJ3007+ 425M x 425M A2 EPDM PN10
709305672	MJ3007+ 450M x 450M A2 EPDM PN10
709305673	MJ3007+ 475M x 475M A2 EPDM PN10
709305674	MJ3007+ 500M x 500M A2 EPDM PN10
709305676	MJ3007+ 550M x 550M A2 EPDM PN10
709305678	MJ3007+ 600M x 600M A2 EPDM PN10
709355010	MJ3057+ 50M x 50FL A4 NBR PN16
709355012	MJ3057+ 65M x 65FL A4 NBR PN16
709355014	MJ3057+ 80M x 80FL A4 NBR PN16
709355016	MJ3057+ 100M x 100FL A4 NBR PN16
709355018	MJ3057+ 125M x 125FL A4 NBR PN16
709355020	MJ3057+ 150M x 150FL A4 NBR PN16
709355024	MJ3057+ 200M x 200FL A4 NBR PN16

709355025	MJ3057+ 200M x 200FL A4 NBR PN16
709355028	MJ3057+ 250M x 250FL A4 NBR PN16
709355029	MJ3057+ 250M x 250FL A4 NBR PN16
709355032	MJ3057+ 300M x 300FL A4 NBR PN16
709355033	MJ3057+ 300M x 300FL A4 NBR PN16
709355036	MJ3057+ 350M x 350FL A4 NBR PN10
709355037	MJ3057+ 350M x 350FL A4 NBR PN10
709355038	MJ3057+ 400M x 400FL A4 NBR PN10
709355039	MJ3057+ 400M x 400FL A4 NBR PN10
709355040	MJ3057+ 80M x 80FL A4 NBR AWWA PN16
709355042	MJ3057+ 100M x 100FL A4 NBR AWWA PN16
709355044	MJ3057+ 150M x 150FL A4 NBR AWWA PN16
709355046	MJ3057+ 200M x 200FL A4 NBR AWWA PN16
709355048	MJ3057+ 250M x 250FL A4 NBR AWWA PN16
709355050	MJ3057+ 300M x 300FL A4 NBR AWWA PN16
709355074	MJ3057+ 500M x 500FL A4 NBR PN10
709355076	MJ3157+ 550M x 500FL A4 NBR PN10
709355078	MJ3057+ 600M x 600FL A4 NBR PN10
709355110	MJ3057+ 50M x 50FL A2 NBR Table D/E PN16
709355112	MJ3057+ 65M x 65FL A2 NBR Table D/E PN16
709355114	MJ3057+ 80M x 80FL A2 NBR Table D/E PN16
709355117	MJ3057+ 100M X 100FL A2 NBR T.D AS2129 PN16
709355121	MJ3057+ 150M X 150FL A2 NBR T.D AS2129 PN16
709355126	MJ3057+ 200M x 200FL A2 NBR T.D AS2129 PN16
709355129	MJ3057+ 250M X 250FL A2 NBR T.D AS2129 PN16
709355133	MJ3057+ 300M X 300FL A2 NBR T.D AS2129 PN16
709355210	MJ3057+ 50M x 50FL A2 NBR PN16
709355212	MJ3057+ 65M x 65FL A2 NBR PN16
709355214	MJ3057+ 80M x 80FL A2 NBR PN16
709355216	MJ3057+ 100M x 100FL A2 NBR PN16
709355218	MJ3057+ 125M x 125FL A2 NBR PN16
709355220	MJ3057+ 150M x 150FL A2 NBR PN16
709355224	MJ3057+ 200M x 200FL A2 NBR PN16
709355225	MJ3057+ 200M x 200FL A2 NBR PN16
709355228	MJ3057+ 250M x 250FL A2 NBR PN16
709355229	MJ3057+ 250M x 250FL A2 NBR PN16
709355232	MJ3057+ 300M x 300FL A2 NBR PN16
709355233	MJ3057+ 300M x 300FL A2 NBR PN16
709355236	MJ3057+ 350M x 350FL A2 NBR PN10
709355237	MJ3057+ 350M x 350FL A2 NBR PN10
709355238	MJ3057+ 400M x 400FL A2 NBR PN10
709355239	MJ3057+ 400M x 400FL A2 NBR PN10
709355240	MJ3057+ 80M x 80FL A2 NBR AWWA PN16
709355242	MJ3057+ 100M x 100FL A2 NBR AWWA PN16
709355244	MJ3057+ 150M x 150FL A2 NBR AWWA PN16
709355246	MJ3057+ 200M x 200FL A2 NBR AWWA PN16
709355248	MJ3057+ 250M x 250FL A2 NBR AWWA PN16
709355250	MJ3057+ 300M x 300FL A2 NBR AWWA PN16

709355274	MJ3057+ 500M x 500FL A2 NBR PN10
709355276	MJ3157+ 550M x 500FL A2 NBR PN10
709355278	MJ3057+ 600M x 600FL A2 NBR PN10
709355310	MJ3057+ 50M x 50FL A4 EPDM PN16
709355312	MJ3057+ 65M x 65FL A4 EPDM PN16
709355314	MJ3057+ 80M x 80FL A4 EPDM PN16
709355316	MJ3057+ 100M x 100FL A4 EPDM PN16
709355318	MJ3057+ 125M x 125FL A4 EPDM PN16
709355320	MJ3057+ 150M x 150FL A4 EPDM PN16
709355324	MJ3057+ 200M x 200FL A4 EPDM PN16
709355325	MJ3057+ 200M x 200FL A4 EPDM PN16
709355328	MJ3057+ 250M x 250FL A4 EPDM PN16
709355329	MJ3057+ 250M x 250FL A4 EPDM PN16
709355332	MJ3057+ 300M x 300FL A4 EPDM PN16
709355333	MJ3057+ 300M x 300FL A4 EPDM PN16
709355336	MJ3057+ 350M x 350FL A4 EPDM PN10
709355337	MJ3057+ 350M x 350FL A4 EPDM PN10
709355338	MJ3057+ 400M x 400FL A4 EPDM PN10
709355339	MJ3057+ 400M x 400FL A4 EPDM PN10
709355340	MJ3057+ 80M x 80FL A4 EPDM AWWA PN16
709355342	MJ3057+ 100M x 100FL A4 EPDM AWWA PN16
709355344	MJ3057+ 150M x 150FL A4 EPDM AWWA PN16
709355346	MJ3057+ 200M x 200FL A4 EPDM AWWA PN16
709355348	MJ3057+ 250M x 250FL A4 EPDM AWWA PN16
709355350	MJ3057+ 300M x 300FL A4 EPDM AWWA PN16
709355374	MJ3057+ 500M x 500FL A4 EPDM PN10
709355376	MJ3157+ 550M x 500FL A4 EPDM PN10
709355378	MJ3057+ 600M x 600FL A4 EPDM PN10
709355510	MJ3057+ 50M X 50FL A4 EPDM Table D/E PN16
709355512	MJ3057+ 65M X 65FL A4 EPDM Table D/E PN16
709355514	MJ3057+ 80M X 80FL A4 EPDM Table D/E PN16
709355517	MJ3057+ 100M X 100FL A4 EPDM T.D AS2129 PN16
709355521	MJ3057+ 150M X 150FL A4 EPDM T.D AS2129 PN16
709355526	MJ3057+ 200M x 200FL A4 EPDM T.D AS2129 PN16
709355529	MJ3057+ 250M X 250FL A4 EPDM T.D AS2129 PN16
709355533	MJ3057+ 300M X 300FL A4 EPDM T.D AS2129 PN16
709355610	MJ3057+ 50M x 50FL A2 EPDM PN16
709355612	MJ3057+ 65M x 65FL A2 EPDM PN16
709355614	MJ3057+ 80M x 80FL A2 EPDM PN16
709355616	MJ3057+ 100M x 100FL A2 EPDM PN16
709355618	MJ3057+ 125M x 125FL A2 EPDM PN16
709355620	MJ3057+ 150M x 150FL A2 EPDM PN16
709355624	MJ3057+ 200M x 200FL A2 EPDM PN16
709355625	MJ3057+ 200M x 200FL A2 EPDM PN16
709355628	MJ3057+ 250M x 250FL A2 EPDM PN16
709355629	MJ3057+ 250M x 250FL A2 EPDM PN16
709355632	MJ3057+ 300M x 300FL A2 EPDM PN16
709355633	MJ3057+ 300M x 300FL A2 EPDM PN16

709355636	MJ3057+ 350M x 350FL A2 EPDM PN10
709355637	MJ3057+ 350M x 350FL A2 EPDM PN10
709355638	MJ3057+ 400M x 400FL A2 EPDM PN10
709355639	MJ3057+ 400M x 400FL A2 EPDM PN10
709355640	MJ3057+ 80M x 80FL A2 EPDM AWWA PN16
709355642	MJ3057+ 100M x 100FL A2 EPDM AWWA PN16
709355644	MJ3057+ 150M x 150FL A2 EPDM AWWA PN16
709355646	MJ3057+ 200M x 200FL A2 EPDM AWWA PN16
709355648	MJ3057+ 250M x 250FL A2 EPDM AWWA PN16
709355650	MJ3057+ 300M x 300FL A2 EPDM AWWA PN16
709355674	MJ3057+ 500M x 500FL A2 EPDM PN10
709355676	MJ3157+ 550M x 500FL A2 EPDM PN10
709355678	MJ3057+ 600M x 600FL A2 EPDM PN10
709355710	MJ3057+ 50M x 50FL A2 EPDM Table D/E PN16
709355712	MJ3057+ 65M x 65FL A2 EPDM Table D/E PN16
709355714	MJ3057+ 80M x 80FL A2 EPDM Table D/E PN16
709355810	MJ3057+ 50M X 50FL A4 NBR Table D/E PN16
709355812	MJ3057+ 65M X 65FL A4 NBR Table D/E PN16
709355814	MJ3057+ 80M X 80FL A4 NBR Table D/E PN16
709355817	MJ3057+ 100M X 100FL A4 NBR T.D AS2129 PN16
709355821	MJ3057+ 150M X 150FL A4 NBR T.D AS2129 PN16
709355826	MJ3057+ 200M x 200FL A4 NBR T.D AS2129 PN16
709355829	MJ3057+ 250M X 250FL A4 NBR T.D AS2129 PN16
709355833	MJ3057+ 300M X 300FL A4 NBR T.D AS2129 PN16
709361214	MJ3060+ 80F x d. 90 A2 N PN16
709361216	MJ3060+ 100F x d.110 A2 N PN16
709361220	MJ3060+ 150F x d.160 A2 N PN16
709365628	MJ3067+ 250M x d.250 A2 EPDM PN16
709365632	MJ3067+ 300M x d.315 A2 EPDM PN16
709371010	MJ3200+ 50F x Blind A4 NBR PN16
709371012	MJ3200+ 65F x Blind A4 NBR PN16
709371014	MJ3200+ 80F x Blind A4 NBR PN16
709371016	MJ3200+ 100F x Blind A4 NBR PN16
709371018	MJ3200+ 125F x Blind A4 NBR PN16
709371020	MJ3200+ 150F x Blind A4 NBR PN16
709371024	MJ3200+ 200F x Blind A4 NBR PN16
709371026	MJ3200+ 225F x Blind A4 NBR PN16
709371028	MJ3200+ 250F x Blind A4 NBR PN16
709371032	MJ3200+ 300F x Blind A4 NBR PN16
709371034	MJ3200+ 400F x Blind A4 NBR PN10
709371210	MJ3200+ 50F x Blind A2 NBR PN16
709371212	MJ3200+ 65F x Blind A2 NBR PN16
709371214	MJ3200+ 80F x Blind A2 NBR PN16
709371216	MJ3200+ 100F x Blind A2 NBR PN16
709371218	MJ3200+ 125F x Blind A2 NBR PN16
709371220	MJ3200+ 150F x Blind A2 NBR PN16
709371224	MJ3200+ 200F x Blind A2 NBR PN16
709371226	MJ3200+ 225F x Blind A2 NBR PN16

709371228	MJ3200+ 250F x Blind A2 NBR PN16
709371232	MJ3200+ 300F x Blind A2 NBR PN16
709371234	MJ3200+ 400F x Blind A2 NBR PN10
709371310	MJ3200+ 50F x Blind A4 EPDM PN16
709371312	MJ3200+ 65F x Blind A4 EPDM PN16
709371314	MJ3200+ 80F x Blind A4 EPDM PN16
709371316	MJ3200+ 100F x Blind A4 EPDM PN16
709371318	MJ3200+ 125F x Blind A4 EPDM PN16
709371320	MJ3200+ 150F x Blind A4 EPDM PN16
709371324	MJ3200+ 200F x Blind A4 EPDM PN16
709371326	MJ3200+ 225F x Blind A4 EPDM PN16
709371328	MJ3200+ 250F x Blind A4 EPDM PN16
709371332	MJ3200+ 300F x Blind A4 EPDM PN16
709371334	MJ3200+ 400F x Blind A4 EPDM PN10
709371610	MJ3200+ 50F x Blind A2 EPDM PN16
709371612	MJ3200+ 65F x Blind A2 EPDM PN16
709371614	MJ3200+ 80F x Blind A2 EPDM PN16
709371616	MJ3200+ 100F x Blind A2 EPDM PN16
709371618	MJ3200+ 125F x Blind A2 EPDM PN16
709371620	MJ3200+ 150F x Blind A2 EPDM PN16
709371624	MJ3200+ 200F x Blind A2 EPDM PN16
709371626	MJ3200+ 225F x Blind A2 EPDM PN16
709371628	MJ3200+ 250F x Blind A2 EPDM PN16
709371632	MJ3200+ 300F x Blind A2 EPDM PN16
709371634	MJ3200+ 400F x Blind A2 EPDM PN10
709375010	MJ3207+ 50M x Blind A4 NBR PN16
709375012	MJ3207+ 65M x Blind A4 NBR PN16
709375014	MJ3207+ 80M x Blind A4 NBR PN16
709375016	MJ3207+ 100M x Blind A4 NBR PN16
709375018	MJ3207+ 125M x Blind A4 NBR PN16
709375020	MJ3207+ 150M x Blind A4 NBR PN16
709375024	MJ3207+ 200M x Blind A4 NBR PN16
709375026	MJ3207+ 225M x Blind A4 NBR PN16
709375028	MJ3207+ 250M x Blind A4 NBR PN16
709375032	MJ3207+ 300M x Blind A4 NBR PN16
709375034	MJ3207+ 400M x Blind A4 NBR PN10
709375210	MJ3207+ 50M x Blind A2 NBR PN16
709375212	MJ3207+ 65M x Blind A2 NBR PN16
709375214	MJ3207+ 80M x Blind A2 NBR PN16
709375216	MJ3207+ 100M x Blind A2 NBR PN16
709375218	MJ3207+ 125M x Blind A2 NBR PN16
709375220	MJ3207+ 150M x Blind A2 NBR PN16
709375224	MJ3207+ 200M x Blind A2 NBR PN16
709375226	MJ3207+ 225M x Blind A2 NBR PN16
709375228	MJ3207+ 250M x Blind A2 NBR PN16
709375232	MJ3207+ 300M x Blind A2 NBR PN16
709375234	MJ3207+ 400M x Blind A2 NBR PN10
709375310	MJ3207+ 50M x Blind A4 EPDM PN16

709375312	MJ3207+ 65M x Blind A4 EPDM PN16
709375314	MJ3207+ 80M x Blind A4 EPDM PN16
709375316	MJ3207+ 100M x Blind A4 EPDM PN16
709375318	MJ3207+ 125M x Blind A4 EPDM PN16
709375320	MJ3207+ 150M x Blind A4 EPDM PN16
709375324	MJ3207+ 200M x Blind A4 EPDM PN16
709375326	MJ3207+ 225M x Blind A4 EPDM PN16
709375328	MJ3207+ 250M x Blind A4 EPDM PN16
709375332	MJ3207+ 300M x Blind A4 EPDM PN16
709375334	MJ3207+ 400M x Blind A4 EPDM PN10
709375610	MJ3207+ 50M x Blind A2 EPDM PN16
709375612	MJ3207+ 65M x Blind A2 EPDM PN16
709375614	MJ3207+ 80M x Blind A2 EPDM PN16
709375616	MJ3207+ 100M x Blind A2 EPDM PN16
709375618	MJ3207+ 125M x Blind A2 EPDM PN16
709375620	MJ3207+ 150M x Blind A2 EPDM PN16
709375624	MJ3207+ 200M x Blind A2 EPDM PN16
709375626	MJ3207+ 225M x Blind A2 EPDM PN16
709375628	MJ3207+ 250M x Blind A2 EPDM PN16
709375632	MJ3207+ 300M x Blind A2 EPDM PN16
709375634	MJ3207+ 400M x Blind A2 EPDM PN10
709381004	MJ3200+ 50F x 3/4" A4 NBR PN16
709381005	MJ3200+ 50F x 1" A4 NBR PN16
709381006	MJ3200+ 50F x 1.1/4" A4 NBR PN16
709381007	MJ3200+ 50F x 1.1/2" A4 NBR PN16
709381008	MJ3200+ 50F x 2" A4 NBR PN16
709381009	MJ3200+ 65F x 3/4" A4 NBR PN16
709381010	MJ3200+ 65F x 1" A4 NBR PN16
709381011	MJ3200+ 65F x 1.1/4" A4 NBR PN16
709381012	MJ3200+ 65F x 1.1/2" A4 NBR PN16
709381013	MJ3200+ 65F x 2" A4 NBR PN16
709381014	MJ3200+ 80F x 3/4" A4 NBR PN16
709381015	MJ3200+ 80F x 1" A4 NBR PN16
709381016	MJ3200+ 80F x 1.1/4" A4 NBR PN16
709381017	MJ3200+ 80F x 1.1/2" A4 NBR PN16
709381018	MJ3200+ 80F x 2" A4 NBR PN16
709381019	MJ3200+ 100F x 3/4" A4 NBR PN16
709381020	MJ3200+ 100F x 1" A4 NBR PN16
709381021	MJ3200+ 100F x 1.1/4" A4 NBR PN16
709381022	MJ3200+ 100F x 1.1/4" A4 NBR PN16
709381023	MJ3200+ 100F x 2" A4 NBR PN16
709381024	MJ3200+ 125F x 3/4" A4 NBR PN16
709381025	MJ3200+ 125F x 1" A4 NBR PN16
709381026	MJ3200+ 125F x 1.1/4" A4 NBR PN16
709381027	MJ3200+ 125F x 1.1/2" A4 NBR PN16
709381028	MJ3200+ 125F x 2" A4 NBR PN16
709381029	MJ3200+ 150F x 3/4" A4 NBR PN16
709381030	MJ3200+ 150F x 1" A4 NBR PN16

709381031	MJ3200+ 150F x 1.1/4" A4 NBR PN16
709381032	MJ3200+ 150F x 1.1/2" A4 NBR PN16
709381033	MJ3200+ 150F x 2" A4 NBR PN16
709381034	MJ3200+ 200F x 3/4" A4 NBR PN16
709381035	MJ3200+ 200F x 1" A4 NBR PN16
709381036	MJ3200+ 200F x 1.1/4" A4 NBR PN16
709381037	MJ3200+ 200F x 1.1/2" A4 NBR PN16
709381038	MJ3200+ 200F x 2" A4 NBR PN16
709381039	MJ3200+ 250F x 3/4" A4 NBR PN16
709381040	MJ3200+ 250F x 1" A4 NBR PN16
709381041	MJ3200+ 250F x 1.1/4" A4 NBR PN16
709381042	MJ3200+ 250F x 1.1/2" A4 NBR PN16
709381043	MJ3200+ 250F x 2" A4 NBR PN16
709381044	MJ3200+ 300F x 3/4" A4 NBR PN16
709381045	MJ3200+ 300F x 1" A4 NBR PN16
709381046	MJ3200+ 300F x 1.1/4" A4 NBR PN16
709381047	MJ3200+ 300F x 1.1/2" A4 NBR PN16
709381048	MJ3200+ 300F x 2" A4 NBR PN16
709381049	MJ3200+ 225F x 3/4" A4 NBR PN16
709381050	MJ3200+ 225F x 1" A4 NBR PN16
709381051	MJ3200+ 225F x 1.1/4" A4 NBR PN16
709381052	MJ3200+ 225F x 1.1/2" A4 NBR PN16
709381053	MJ3200+ 225F x 2" A4 NBR PN16
709381054	MJ3200+ 400F x 3/4" A4 NBR PN10
709381055	MJ3200+ 400F x 1" A4 NBR PN10
709381056	MJ3200+ 400F x 1.1/4" A4 NBR PN10
709381057	MJ3200+ 400F x 1.1/2" A4 NBR PN10
709381058	MJ3200+ 400F x 2" A4 NBR PN10
709381204	MJ3200+ 50F x 3/4" A2 NBR PN16
709381205	MJ3200+ 50F x 1" A2 NBR PN16
709381206	MJ3200+ 50F x 1.1/4" A2 NBR PN16
709381207	MJ3200+ 50F x 1.1/2" A2 NBR PN16
709381208	MJ3200+ 50F x 2" A2 NBR PN16
709381209	MJ3200+ 65F x 3/4" A2 NBR PN16
709381210	MJ3200+ 65F x 1" A2 NBR PN16
709381211	MJ3200+ 65F x 1.1/4" A2 NBR PN16
709381212	MJ3200+ 65F x 1.1/2" A2 NBR PN16
709381213	MJ3200+ 65F x 2" A2 NBR PN16
709381214	MJ3200+ 80F x 3/4" A2 NBR PN16
709381215	MJ3200+ 80F x 1" A2 NBR PN16
709381216	MJ3200+ 80F x 1.1/4" A2 NBR PN16
709381217	MJ3200+ 80F x 1.1/2" A2 NBR PN16
709381218	MJ3200+ 80F x 2" A2 NBR PN16
709381219	MJ3200+ 100F x 3/4" A2 NBR PN16
709381220	MJ3200+ 100F x 1" A2 NBR PN16
709381221	MJ3200+ 100F x 1.1/4" A2 NBR PN16
709381222	MJ3200+ 100F x 1.1/2" A2 NBR PN16
709381223	MJ3200+ 100F x 2" A2 NBR PN16

709381224	MJ3200+ 125F x 3/4" A2 NBR PN16
709381225	MJ3200+ 125F x 1" A2 NBR PN16
709381226	MJ3200+ 125F x 1.1/4" A2 NBR PN16
709381227	MJ3200+ 125F x 1.1/2" A2 NBR PN16
709381228	MJ3200+ 125F x 2" A2 NBR PN16
709381229	MJ3200+ 150F x 3/4" A2 NBR PN16
709381230	MJ3200+ 150F x 1" A2 NBR PN16
709381231	MJ3200+ 150F x 1.1/4" A2 NBR PN16
709381232	MJ3200+ 150F x 1.1/2" A2 NBR PN16
709381233	MJ3200+ 150F x 2" A2 NBR PN16
709381234	MJ3200+ 200F x 3/4" A2 NBR PN16
709381235	MJ3200+ 200F x 1" A2 NBR PN16
709381236	MJ3200+ 200F x 1.1/4" A2 NBR PN16
709381237	MJ3200+ 200F x 1.1/2" A2 NBR PN16
709381238	MJ3200+ 200F x 2" A2 NBR PN16
709381239	MJ3200+ 250F x 3/4" A2 NBR PN16
709381240	MJ3200+ 250F x 1" A2 NBR PN16
709381241	MJ3200+ 250F x 1.1/4" A2 NBR PN16
709381242	MJ3200+ 250F x 1.1/2" A2 NBR PN16
709381243	MJ3200+ 250F x 2" A2 NBR PN16
709381244	MJ3200+ 300F x 3/4" A2 NBR PN16
709381245	MJ3200+ 300F x 1" A2 NBR PN16
709381246	MJ3200+ 300F x 1.1/4" A2 NBR PN16
709381247	MJ3200+ 300F x 1.1/2" A2 NBR PN16
709381248	MJ3200+ 300F x 2" A2 NBR PN16
709381249	MJ3200+ 225F x 3/4" A2 NBR PN16
709381250	MJ3200+ 225F x 1" A2 NBR PN16
709381251	MJ3200+ 225F x 1.1/4" A2 NBR PN16
709381252	MJ3200+ 225F x 1.1/2" A2 NBR PN16
709381253	MJ3200+ 225F x 2" A2 NBR PN16
709381254	MJ3200+ 400F x 3/4" A2 NBR PN10
709381255	MJ3200+ 400F x 1" A2 NBR PN10
709381256	MJ3200+ 400F x 1.1/4" A2 NBR PN10
709381257	MJ3200+ 400F x 1.1/2" A2 NBR PN10
709381258	MJ3200+ 400F x 2" A2 NBR PN10
709381304	MJ3200+ 50F x 3/4" A4 EPDM PN16
709381305	MJ3200+ 50F x 1" A4 EPDM PN16
709381306	MJ3200+ 50F x 1.1/4" A4 EPDM PN16
709381307	MJ3200+ 50F x 1.1/2" A4 EPDM PN16
709381308	MJ3200+ 50F x 2" A4 EPDM PN16
709381309	MJ3200+ 65F x 3/4" A4 EPDM PN16
709381310	MJ3200+ 65F x 1" A4 EPDM PN16
709381311	MJ3200+ 65F x 1.1/4" A4 EPDM PN16
709381312	MJ3200+ 65F x 1.1/2" A4 EPDM PN16
709381313	MJ3200+ 65F x 2" A4 EPDM PN16
709381314	MJ3200+ 80F x 3/4" A4 EPDM PN16
709381315	MJ3200+ 80F x 1" A4 EPDM PN16
709381316	MJ3200+ 80F x 1.1/4" A4 EPDM PN16

709381317	MJ3200+ 80F x 1.1/2" A4 EPDM PN16
709381318	MJ3200+ 80F x 2" A4 EPDM PN16
709381319	MJ3200+ 100F x 3/4" A4 EPDM PN16
709381320	MJ3200+ 100F x 1" A4 EPDM PN16
709381321	MJ3200+ 100F x 1.1/4" A4 EPDM PN16
709381322	MJ3200+ 100F x 1.1/2" A4 EPDM PN16
709381323	MJ3200+ 100F x 2" A4 EPDM PN16
709381324	MJ3200+ 125F x 3/4" A4 EPDM PN16
709381325	MJ3200+ 125F x 1" A4 EPDM PN16
709381326	MJ3200+ 125F x 1.1/4" A4 EPDM PN16
709381327	MJ3200+ 125F x 1.1/2" A4 EPDM PN16
709381328	MJ3200+ 125F x 2" A4 EPDM PN16
709381329	MJ3200+ 150F x 3/4" A4 EPDM PN16
709381330	MJ3200+ 150F x 1" A4 EPDM PN16
709381331	MJ3200+ 150F x 1.1/4" A4 EPDM PN16
709381332	MJ3200+ 150F x 1.1/2" A4 EPDM PN16
709381333	MJ3200+ 150F x 2" A4 EPDM PN16
709381334	MJ3200+ 200F x 3/4" A4 EPDM PN16
709381335	MJ3200+ 200F x 1" A4 EPDM PN16
709381336	MJ3200+ 200F x 1.1/4" A4 EPDM PN16
709381337	MJ3200+ 200F x 1.1/2" A4 EPDM PN16
709381338	MJ3200+ 200F x 2" A4 EPDM PN16
709381339	MJ3200+ 250F x 3/4" A4 EPDM PN16
709381340	MJ3200+ 250F x 1" A4 EPDM PN16
709381341	MJ3200+ 250F x 1.1/4" A4 EPDM PN16
709381342	MJ3200+ 250F x 1.1/2" A4 EPDM PN16
709381343	MJ3200+ 250F x 2" A4 EPDM PN16
709381344	MJ3200+ 300F x 3/4" A4 EPDM PN16
709381345	MJ3200+ 300F x 1" A4 EPDM PN16
709381346	MJ3200+ 300F x 1.1/4" A4 EPDM PN16
709381347	MJ3200+ 300F x 1.1/2" A4 EPDM PN16
709381348	MJ3200+ 300F x 2" A4 EPDM PN16
709381349	MJ3200+ 225F x 3/4" A4 EPDM PN16
709381350	MJ3200+ 225F x 1" A4 EPDM PN16
709381351	MJ3200+ 225F x 1.1/4" A4 EPDM PN16
709381352	MJ3200+ 225F x 1.1/2" A4 EPDM PN16
709381353	MJ3200+ 225F x 2" A4 EPDM PN16
709381354	MJ3200+ 400F x 3/4" A4 EPDM PN10
709381355	MJ3200+ 400F x 1" A4 EPDM PN10
709381356	MJ3200+ 400F x 1.1/4" A4 EPDM PN10
709381357	MJ3200+ 400F x 1.1/2" A4 EPDM PN10
709381358	MJ3200+ 400F x 2" A4 EPDM PN10
709381604	MJ3200+ 50F x 3/4" A2 EPDM PN16
709381605	MJ3200+ 50F x 1" A2 EPDM PN16
709381606	MJ3200+ 50F x 1.1/4" A2 EPDM PN16
709381607	MJ3200+ 50F x 1.1/2" A2 EPDM PN16
709381608	MJ3200+ 50F x 2" A2 EPDM PN16
709381609	MJ3200+ 65F x 3/4" A2 EPDM PN16

709381610	MJ3200+ 65F x 1" A2 EPDM PN16
709381611	MJ3200+ 65F x 1.1/4" A2 EPDM PN16
709381612	MJ3200+ 65F x 1.1/2" A2 EPDM PN16
709381613	MJ3200+ 65F x 2" A2 EPDM PN16
709381614	MJ3200+ 80F x 3/4" A2 EPDM PN16
709381615	MJ3200+ 80F x 1" A2 EPDM PN16
709381616	MJ3200+ 80F x 1.1/4" A2 EPDM PN16
709381617	MJ3200+ 80F x 1.1/2" A2 EPDM PN16
709381618	MJ3200+ 80F x 2" A2 EPDM PN16
709381619	MJ3200+ 100F x 3/4" A2 EPDM PN16
709381620	MJ3200+ 100F x 1" A2 EPDM PN16
709381621	MJ3200+ 100F x 1.1/4" A2 EPDM PN16
709381622	MJ3200+ 100F x 1.1/2" A2 EPDM PN16
709381623	MJ3200+ 100F x 2" A2 EPDM PN16
709381624	MJ3200+ 125F x 3/4" A2 EPDM PN16
709381625	MJ3200+ 125F x 1" A2 EPDM PN16
709381626	MJ3200+ 125F x 1.1/4" A2 EPDM PN16
709381627	MJ3200+ 125F x 1.1/2" A2 EPDM PN16
709381628	MJ3200+ 125F x 2" A2 EPDM PN16
709381629	MJ3200+ 150F x 3/4" A2 EPDM PN16
709381630	MJ3200+ 150F x 1" A2 EPDM PN16
709381631	MJ3200+ 150F x 1.1/4" A2 EPDM PN16
709381632	MJ3200+ 150F x 1.1/2" A2 EPDM PN16
709381633	MJ3200+ 150F x 2" A2 EPDM PN16
709381634	MJ3200+ 200F x 3/4" A2 EPDM PN16
709381635	MJ3200+ 200F x 1" A2 EPDM PN16
709381636	MJ3200+ 200F x 1.1/4" A2 EPDM PN16
709381637	MJ3200+ 200F x 1.1/2" A2 EPDM PN16
709381638	MJ3200+ 200F x 2" A2 EPDM PN16
709381639	MJ3200+ 250F x 3/4" A2 EPDM PN16
709381640	MJ3200+ 250F x 1" A2 EPDM PN16
709381641	MJ3200+ 250F x 1.1/4" A2 EPDM PN16
709381642	MJ3200+ 250F x 1.1/2" A2 EPDM PN16
709381643	MJ3200+ 250F x 2" A2 EPDM PN16
709381644	MJ3200+ 300F x 3/4" A2 EPDM PN16
709381645	MJ3200+ 300F x 1" A2 EPDM PN16
709381646	MJ3200+ 300F x 1.1/4" A2 EPDM PN16
709381647	MJ3200+ 300F x 1.1/2" A2 EPDM PN16
709381648	MJ3200+ 300F x 2" A2 EPDM PN16
709381649	MJ3200+ 225F x 3/4" A2 EPDM PN16
709381650	MJ3200+ 225F x 1" A2 EPDM PN16
709381651	MJ3200+ 225F x 1.1/4" A2 EPDM PN16
709381652	MJ3200+ 225F x 1.1/2" A2 EPDM PN16
709381653	MJ3200+ 225F x 2" A2 EPDM PN16
709381654	MJ3200+ 400F x 3/4" A2 EPDM PN10
709381655	MJ3200+ 400F x 1" A2 EPDM PN10
709381656	MJ3200+ 400F x 1.1/4" A2 EPDM PN10
709381657	MJ3200+ 400F x 1.1/2" A2 EPDM PN10

709381658	MJ3200+ 400F x 2" A2 EPDM PN10
709385004	MJ3207+ 50M x 3/4" A4 NBR PN16
709385005	MJ3207+ 50M x 1" A4 NBR PN16
709385006	MJ3207+ 50M x 1.1/4" A4 NBR PN16
709385007	MJ3207+ 50M x 1.1/2" A4 NBR PN16
709385008	MJ3207+ 50M x 2" A4 NBR PN16
709385009	MJ3207+ 65M x 3/4" A4 NBR PN16
709385010	MJ3207+ 65M x 1" A4 NBR PN16
709385011	MJ3207+ 65M x 1.1/4" A4 NBR PN16
709385012	MJ3207+ 65M x 1.1/2" A4 NBR PN16
709385013	MJ3207+ 65M x 2" A4 NBR PN16
709385014	MJ3207+ 80M x 3/4" A4 NBR PN16
709385015	MJ3207+ 80M x 1" A4 NBR PN16
709385016	MJ3207+ 80M x 1.1/4" A4 NBR PN16
709385017	MJ3207+ 80M x 1.1/2" A4 NBR PN16
709385018	MJ3207+ 80M x 2" A4 NBR PN16
709385019	MJ3207+ 100M x 3/4" A4 NBR PN16
709385020	MJ3207+ 100M x 1" A4 NBR PN16
709385021	MJ3207+ 100M x 1.1/4" A4 NBR PN16
709385022	MJ3207+ 100M x 1.1/2" A4 NBR PN16
709385023	MJ3207+ 100M x 2" A4 NBR PN16
709385024	MJ3207+ 125M x 3/4" A4 NBR PN16
709385025	MJ3207+ 125M x 1" A4 NBR PN16
709385026	MJ3207+ 125M x 1.1/4" A4 NBR PN16
709385027	MJ3207+ 125M x 1.1/2" A4 NBR PN16
709385028	MJ3207+ 125M x 2" A4 NBR PN16
709385029	MJ3207+ 150M x 3/4" A4 NBR PN16
709385030	MJ3207+ 150M x 1" A4 NBR PN16
709385031	MJ3207+ 150M x 1.1/4" A4 NBR PN16
709385032	MJ3207+ 150M x 1.1/2" A4 NBR PN16
709385033	MJ3207+ 150M x 2" A4 NBR PN16
709385034	MJ3207+ 200M x 3/4" A4 NBR PN16
709385035	MJ3207+ 200M x 1" A4 NBR PN16
709385036	MJ3207+ 200M x 1.1/4" A4 NBR PN16
709385037	MJ3207+ 200M x 1.1/2" A4 NBR PN16
709385038	MJ3207+ 200M x 2" A4 NBR PN16
709385039	MJ3207+ 250M x 3/4" A4 NBR PN16
709385040	MJ3207+ 250M x 1" A4 NBR PN16
709385041	MJ3207+ 250M x 1.1/4" A4 NBR PN16
709385042	MJ3207+ 250M x 1.1/2" A4 NBR PN16
709385043	MJ3207+ 250M x 2" A4 NBR PN16
709385044	MJ3207+ 300M x 3/4" A4 NBR PN16
709385045	MJ3207+ 300M x 1" A4 NBR PN16
709385046	MJ3207+ 300M x 1.1/4" A4 NBR PN16
709385047	MJ3207+ 300M x 1.1/2" A4 NBR PN16
709385048	MJ3207+ 300M x 2" A4 NBR PN16
709385049	MJ3207+ 225M x 3/4" A4 NBR PN16
709385050	MJ3207+ 225M x 1" A4 NBR PN16

709385051	MJ3207+ 225M x 1.1/4" A4 NBR PN16
709385052	MJ3207+ 225M x 1.1/2" A4 NBR PN16
709385053	MJ3207+ 225M x 2" A4 NBR PN16
709385054	MJ3207+ 400M x 3/4" A4 NBR PN10
709385055	MJ3207+ 400M x 1" A4 NBR PN10
709385056	MJ3207+ 400M x 1.1/4" A4 NBR PN10
709385057	MJ3207+ 400M x 1.1/2" A4 NBR PN10
709385058	MJ3207+ 400M x 2" A4 NBR PN10
709385059	MJ3207+ 50M x 2" NPT A4 NBR PN16
709385060	MJ3207+ 65M x 2" NPT A4 NBR PN16
709385061	MJ3207+ 80M x 2" NPT A4 NBR PN16
709385062	MJ3207+ 100M x 2" NPT A4 NBR PN16
709385063	MJ3207+ 125M x 2" NPT A4 NBR PN16
709385064	MJ3207+ 150M x 2" NPT A4 NBR PN16
709385065	MJ3207+ 200M x 2" NPT A4 NBR PN16
709385066	MJ3207+ 250M x 2" NPT A4 NBR PN16
709385067	MJ3207+ 300M x 2" NPT A4 NBR PN16
709385068	MJ3207+ 225M x 2" NPT A4 NBR PN16
709385069	MJ3207+ 400M x 2" NPT A4 NBR PN10
709385204	MJ3207+ 50M x 3/4" A2 NBR PN16
709385205	MJ3207+ 50M x 1" A2 NBR PN16
709385206	MJ3207+ 50M x 1.1/4" A2 NBR PN16
709385207	MJ3207+ 50M x 1.1/2" A2 NBR PN16
709385208	MJ3207+ 50M x 2" A2 NBR PN16
709385209	MJ3207+ 65M x 3/4" A2 NBR PN16
709385210	MJ3207+ 65M x 1" A2 NBR PN16
709385211	MJ3207+ 65M x 1.1/4" A2 NBR PN16
709385212	MJ3207+ 65M x 1.1/2" A2 NBR PN16
709385213	MJ3207+ 65M x 2" A2 NBR PN16
709385214	MJ3207+ 80M x 3/4" A2 NBR PN16
709385215	MJ3207+ 80M x 1" A2 NBR PN16
709385216	MJ3207+ 80M x 1.1/4" A2 NBR PN16
709385217	MJ3207+ 80M x 1.1/2" A2 NBR PN16
709385218	MJ3207+ 80M x 2" A2 NBR PN16
709385219	MJ3207+ 100M x 3/4" A2 NBR PN16
709385220	MJ3207+ 100M x 1" A2 NBR PN16
709385221	MJ3207+ 100M x 1.1/4" A2 NBR PN16
709385222	MJ3207+ 100M x 1.1/2" A2 NBR PN16
709385223	MJ3207+ 100M x 2" A2 NBR PN16
709385224	MJ3207+ 125M x 3/4" A2 NBR PN16
709385225	MJ3207+ 125M x 1" A2 NBR PN16
709385226	MJ3207+ 125M x 1.1/4" A2 NBR PN16
709385227	MJ3207+ 125M x 1.1/2" A2 NBR PN16
709385228	MJ3207+ 125M x 2" A2 NBR PN16
709385229	MJ3207+ 150M x 3/4" A2 NBR PN16
709385230	MJ3207+ 150M x 1" A2 NBR PN16
709385231	MJ3207+ 150M x 1.1/4" A2 NBR PN16
709385232	MJ3207+ 150M x 1.1/2" A2 NBR PN16

709385233	MJ3207+ 150M x 2" A2 NBR PN16
709385234	MJ3207+ 200M x 3/4" A2 NBR PN16
709385235	MJ3207+ 200M x 1" A2 NBR PN16
709385236	MJ3207+ 200M x 1.1/4" A2 NBR PN16
709385237	MJ3207+ 200M x 1.1/2" A2 NBR PN16
709385238	MJ3207+ 200M x 2" A2 NBR PN16
709385239	MJ3207+ 250M x 3/4" A2 NBR PN16
709385240	MJ3207+ 250M x 1" A2 NBR PN16
709385241	MJ3207+ 250M x 1.1/4" A2 NBR PN16
709385242	MJ3207+ 250M x 1.1/2" A2 NBR PN16
709385243	MJ3207+ 250M x 2" A2 NBR PN16
709385244	MJ3207+ 300M x 3/4" A2 NBR PN16
709385245	MJ3207+ 300M x 1" A2 NBR PN16
709385246	MJ3207+ 300M x 1.1/4" A2 NBR PN16
709385247	MJ3207+ 300M x 1.1/2" A2 NBR PN16
709385248	MJ3207+ 300M x 2" A2 NBR PN16
709385249	MJ3207+ 225M x 3/4" A2 NBR PN16
709385250	MJ3207+ 225M x 1" A2 NBR PN16
709385251	MJ3207+ 225M x 1.1/4" A2 NBR PN16
709385252	MJ3207+ 225M x 1.1/2" A2 NBR PN16
709385253	MJ3207+ 225M x 2" A2 NBR PN16
709385254	MJ3207+ 400M x 3/4" A2 NBR PN10
709385255	MJ3207+ 400M x 1" A2 NBR PN10
709385256	MJ3207+ 400M x 1.1/4" A2 NBR PN10
709385257	MJ3207+ 400M x 1.1/2" A2 NBR PN10
709385258	MJ3207+ 400M x 2" A2 NBR PN10
709385259	MJ3207+ 50M x 2" NPT A2 NBR PN16
709385260	MJ3207+ 65M x 2" NPT A2 NBR PN16
709385261	MJ3207+ 80M x 2" NPT A2 NBR PN16
709385262	MJ3207+ 100M x 2" NPT A2 NBR PN16
709385263	MJ3207+ 125M x 2" NPT A2 NBR PN16
709385264	MJ3207+ 150M x 2" NPT A2 NBR PN16
709385265	MJ3207+ 200M x 2" NPT A2 NBR PN16
709385266	MJ3207+ 250M x 2" NPT A2 NBR PN16
709385267	MJ3207+ 300M x 2" NPT A2 NBR PN16
709385268	MJ3207+ 225M x 2" NPT A2 NBR PN16
709385269	MJ3207+ 400M x 2" NPT A2 NBR PN10
709385304	MJ3207+ 50M x 3/4" A4 EPDM PN16
709385305	MJ3207+ 50M x 1" A4 EPDM PN16
709385306	MJ3207+ 50M x 1.1/4" A4 EPDM PN16
709385307	MJ3207+ 50M x 1.1/2" A4 EPDM PN16
709385308	MJ3207+ 50M x 2" A4 EPDM PN16
709385309	MJ3207+ 65M x 3/4" A4 EPDM PN16
709385310	MJ3207+ 65M x 1" A4 EPDM PN16
709385311	MJ3207+ 65M x 1.1/4" A4 EPDM PN16
709385312	MJ3207+ 65M x 1.1/2" A4 EPDM PN16
709385313	MJ3207+ 65M x 2" A4 EPDM PN16
709385314	MJ3207+ 80M x 3/4" A4 EPDM PN16

709385315	MJ3207+ 80M x 1" A4 EPDM PN16
709385316	MJ3207+ 80M x 1.1/4" A4 EPDM PN16
709385317	MJ3207+ 80M x 1.1/2" A4 EPDM PN16
709385318	MJ3207+ 80M x 2" A4 EPDM PN16
709385319	MJ3207+ 100M x 3/4" A4 EPDM PN16
709385320	MJ3207+ 100M x 1" A4 EPDM PN16
709385321	MJ3207+ 100M x 1.1/4" A4 EPDM PN16
709385322	MJ3207+ 100M x 1.1/2" A4 EPDM PN16
709385323	MJ3207+ 100M x 2" A4 EPDM PN16
709385324	MJ3207+ 125M x 3/4" A4 EPDM PN16
709385325	MJ3207+ 125M x 1" A4 EPDM PN16
709385326	MJ3207+ 125M x 1.1/4" A4 EPDM PN16
709385327	MJ3207+ 125M x 1.1/2" A4 EPDM PN16
709385328	MJ3207+ 125M x 2" A4 EPDM PN16
709385329	MJ3207+ 150M x 3/4" A4 EPDM PN16
709385330	MJ3207+ 150M x 1" A4 EPDM PN16
709385331	MJ3207+ 150M x 1.1/4" A4 EPDM PN16
709385332	MJ3207+ 150M x 1.1/2" A4 EPDM PN16
709385333	MJ3207+ 150M x 2" A4 EPDM PN16
709385334	MJ3207+ 200M x 3/4" A4 EPDM PN16
709385335	MJ3207+ 200M x 1" A4 EPDM PN16
709385336	MJ3207+ 200M x 1.1/4" A4 EPDM PN16
709385337	MJ3207+ 200M x 1.1/2" A4 EPDM PN16
709385338	MJ3207+ 200M x 2" A4 EPDM PN16
709385339	MJ3207+ 250M x 3/4" A4 EPDM PN16
709385340	MJ3207+ 250M x 1" A4 EPDM PN16
709385341	MJ3207+ 250M x 1.1/4" A4 EPDM PN16
709385342	MJ3207+ 250M x 1.1/2" A4 EPDM PN16
709385343	MJ3207+ 250M x 2" A4 EPDM PN16
709385344	MJ3207+ 300M x 3/4" A4 EPDM PN16
709385345	MJ3207+ 300M x 1" A4 EPDM PN16
709385346	MJ3207+ 300M x 1.1/4" A4 EPDM PN16
709385347	MJ3207+ 300M x 1.1/2" A4 EPDM PN16
709385348	MJ3207+ 300M x 2" A4 EPDM PN16
709385349	MJ3207+ 225M x 3/4" A4 EPDM PN16
709385350	MJ3207+ 225M x 1" A4 EPDM PN16
709385351	MJ3207+ 225M x 1.1/4" A4 EPDM PN16
709385352	MJ3207+ 225M x 1.1/2" A4 EPDM PN16
709385353	MJ3207+ 225M x 2" A4 EPDM PN16
709385354	MJ3207+ 400M x 3/4" A4 EPDM PN10
709385355	MJ3207+ 400M x 1" A4 EPDM PN10
709385356	MJ3207+ 400M x 1.1/4" A4 EPDM PN10
709385357	MJ3207+ 400M x 1.1/2" A4 EPDM PN10
709385358	MJ3207+ 400M x 2" A4 EPDM PN10
709385359	MJ3207+ 50M x 2" NPT A4 EPDM PN16
709385360	MJ3207+ 65M x 2" NPT A4 EPDM PN16
709385361	MJ3207+ 80M x 2" NPT A4 EPDM PN16
709385362	MJ3207+ 100M x 2" NPT A4 EPDM PN16

709385363	MJ3207+ 125M x 2" NPT A4 EPDM PN16
709385364	MJ3207+ 150M x 2" NPT A4 EPDM PN16
709385365	MJ3207+ 200M x 2" NPT A4 EPDM PN16
709385366	MJ3207+ 250M x 2" NPT A4 EPDM PN16
709385367	MJ3207+ 300M x 2" NPT A4 EPDM PN16
709385368	MJ3207+ 225M x 2" NPT A4 EPDM PN16
709385369	MJ3207+ 400M x 2" NPT A4 EPDM PN10
709385604	MJ3207+ 50M x 3/4" A2 EPDM PN16
709385605	MJ3207+ 50M x 1" A2 EPDM PN16
709385606	MJ3207+ 50M x 1.1/4" A2 EPDM PN16
709385607	MJ3207+ 50M x 1.1/2" A2 EPDM PN16
709385608	MJ3207+ 50M x 2" A2 EPDM PN16
709385609	MJ3207+ 65M x 3/4" A2 EPDM PN16
709385610	MJ3207+ 65M x 1" A2 EPDM PN16
709385611	MJ3207+ 65M x 1.1/4" A2 EPDM PN16
709385612	MJ3207+ 65M x 1.1/2" A2 EPDM PN16
709385613	MJ3207+ 65M x 2" A2 EPDM PN16
709385614	MJ3207+ 80M x 3/4" A2 EPDM PN16
709385615	MJ3207+ 80M x 1" A2 EPDM PN16
709385616	MJ3207+ 80M x 1.1/4" A2 EPDM PN16
709385617	MJ3207+ 80M x 1.1/2" A2 EPDM PN16
709385618	MJ3207+ 80M x 2" A2 EPDM PN16
709385619	MJ3207+ 100M x 3/4" A2 EPDM PN16
709385620	MJ3207+ 100M x 1" A2 EPDM PN16
709385621	MJ3207+ 100M x 1.1/4" A2 EPDM PN16
709385622	MJ3207+ 100M x 1.1/2" A2 EPDM PN16
709385623	MJ3207+ 100M x 2" A2 EPDM PN16
709385624	MJ3207+ 125M x 3/4" A2 EPDM PN16
709385625	MJ3207+ 125M x 1" A2 EPDM PN16
709385626	MJ3207+ 125M x 1.1/4" A2 EPDM PN16
709385627	MJ3207+ 125M x 1.1/2" A2 EPDM PN16
709385628	MJ3207+ 125M x 2" A2 EPDM PN16
709385629	MJ3207+ 150M x 3/4" A2 EPDM PN16
709385630	MJ3207+ 150M x 1" A2 EPDM PN16
709385631	MJ3207+ 150M x 1.1/4" A2 EPDM PN16
709385632	MJ3207+ 150M x 1.1/2" A2 EPDM PN16
709385633	MJ3207+ 150M x 2" A2 EPDM PN16
709385634	MJ3207+ 200M x 3/4" A2 EPDM PN16
709385635	MJ3207+ 200M x 1" A2 EPDM PN16
709385636	MJ3207+ 200M x 1.1/4" A2 EPDM PN16
709385637	MJ3207+ 200M x 1.1/2" A2 EPDM PN16
709385638	MJ3207+ 200M x 2" A2 EPDM PN16
709385639	MJ3207+ 250M x 3/4" A2 EPDM PN16
709385640	MJ3207+ 250M x 1" A2 EPDM PN16
709385641	MJ3207+ 250M x 1.1/4" A2 EPDM PN16
709385642	MJ3207+ 250M x 1.1/2" A2 EPDM PN16
709385643	MJ3207+ 250M x 2" A2 EPDM PN16
709385644	MJ3207+ 300M x 3/4" A2 EPDM PN16

709385645	MJ3207+ 300M x 1" A2 EPDM PN16
709385646	MJ3207+ 300M x 1.1/4" A2 EPDM PN16
709385647	MJ3207+ 300M x 1.1/2" A2 EPDM PN16
709385648	MJ3207+ 300M x 2" A2 EPDM PN16
709385649	MJ3207+ 225M x 3/4" A2 EPDM PN16
709385650	MJ3207+ 225M x 1" A2 EPDM PN16
709385651	MJ3207+ 225M x 1.1/4" A2 EPDM PN16
709385652	MJ3207+ 225M x 1.1/2" A2 EPDM PN16
709385653	MJ3207+ 225M x 2" A2 EPDM PN16
709385654	MJ3207+ 400M x 3/4" A2 EPDM PN10
709385655	MJ3207+ 400M x 1" A2 EPDM PN10
709385656	MJ3207+ 400M x 1.1/4" A2 EPDM PN10
709385657	MJ3207+ 400M x 1.1/2" A2 EPDM PN10
709385658	MJ3207+ 400M x 2" A2 EPDM PN10
709385659	MJ3207+ 50M x 2" NPT A2 EPDM
709385660	MJ3207+ 65M x 2" NPT A2 EPDM PN16
709385661	MJ3207+ 80M x 2" NPT A2 EPDM PN16
709385662	MJ3207+ 100M x 2" NPT A2 EPDM PN16
709385663	MJ3207+ 125M x 2" NPT A2 EPDM PN16
709385664	MJ3207+ 150M x 2" NPT A2 EPDM PN16
709385665	MJ3207+ 200M x 2" NPT A2 EPDM PN16
709385666	MJ3207+ 250M x 2" NPT A2 EPDM PN16
709385667	MJ3207+ 300M x 2" NPT A2 EPDM PN16
709385668	MJ3207+ 225M x 2" NPT A2 EPDM PN16
709385669	MJ3207+ 400M x 2" NPT A2 EPDM PN10
709405018	MJ3107+ 65M x 50M A4 NBR PN16
709405020	MJ3107+ 80M x 65M A4 NBR PN16
709405024	MJ3107+ 100M x 80M A4 NBR PN16 PN16
709405032	MJ3107+ 125M x 100M A4 NBR PN16
709405036	MJ3107+ 150M x 100M A4 NBR PN16
709405038	MJ3107+ 150M x 125M A4 NBR PN16
709405048	MJ3107+ 200M x 150M A4 NBR PN16
709405078	MJ3107+ 225M x 200M A4 NBR PN16
709405082	MJ3107+ 250M x 225M A4 NBR PN16
709405086	MJ3107+ 300M x 250M A4 NBR PN16
709405088	MJ3107+ 350M x 300M A4 NBR PN10
709405089	MJ3107+ 400M x 300M A4 NBR PN10
709405090	MJ3107+ 400M x 350M A4 NBR PN10
709405092	MJ3107+ 450M x 400M A4 NBR PN10
709405093	MJ3107+ 425M x 400 A4 NBR PN10
709405094	MJ3107+ 500M x 450M A4 NBR PN10
709405095	MJ3107+ 475M x 425M A4 NBR PN10
709405096	MJ3107+ 550M x 500M A4 NBR PN10
709405097	MJ3107+ 600M x 550M A4 NBR PN10
709405218	MJ3107+ 65M x 50M A2 NBR PN16
709405220	MJ3107+ 80M x 65M A2 NBR PN16
709405224	MJ3107+ 100M x 80M A2 NBR PN16
709405232	MJ3107+ 125M x 100M A2 NBR PN16

709405236	MJ3107+ 150M x 100M A2 NBR PN16
709405238	MJ3107+ 150M x 125M A2 NBR PN16
709405248	MJ3107+ 200M x 150M A2 NBR PN16
709405278	MJ3107+ 225M x 200M A2 NBR PN16
709405282	MJ3107+ 250M x 225M A2 NBR PN16
709405286	MJ3107+ 300M x 250M A2 NBR PN16
709405288	MJ3107+ 350M x 300M A2 NBR PN10
709405289	MJ3107+ 400M x 300M A2 NBR PN10
709405290	MJ3107+ 400M x 350M A2 NBR PN10
709405292	MJ3107+ 450M x 400M A2 NBR PN10
709405293	MJ3107+ 425M x 400M A2 NBR PN10
709405294	MJ3107+ 500M x 450M A2 NBR PN10
709405295	MJ3107+ 475M x 425M A2 NBR PN10
709405296	MJ3107+ 550M x 500M A2 NBR PN10
709405297	MJ3107+ 600M x 550M A2 NBR PN10
709405318	MJ3107+ 65M x 50M A4 EPDM PN16
709405320	MJ3107+ 80M x 65M A4 EPDM PN16
709405324	MJ3107+ 100M x 80M A4 EPDM PN16
709405332	MJ3107+ 125M x 100M A4 EPDM PN16
709405336	MJ3107+ 150M x 100M A4 EPDM PN16
709405338	MJ3107+ 150M x 125M A4 EPDM PN16
709405348	MJ3107+ 200M x 150M A4 EPDM PN16
709405378	MJ3107+ 225M x 200M A4 EPDM PN16
709405382	MJ3107+ 250M x 225M A4 EPDM PN16
709405386	MJ3107+ 300M x 250M A4 EPDM PN16
709405388	MJ3107+ 350M x 300M A4 EPDM PN10
709405389	MJ3107+ 400M x 300M A4 EPDM PN10
709405390	MJ3107+ 400M x 350M A4 EPDM PN10
709405392	MJ3107+ 450M x 400M A4 EPDM PN10
709405393	MJ3107+ 425M x 400M A4 EPDM PN10
709405394	MJ3107+ 500M x 450M A4 EPDM PN10
709405395	MJ3107+ 475M x 425M A4 EPDM PN10
709405396	MJ3107+ 550M x 500M A4 EPDM PN10
709405397	MJ3107+ 600M x 550M A4 EPDM PN10
709405618	MJ3107+ 65M x 50M A2 EPDM PN16
709405620	MJ3107+ 80M x 65M A2 EPDM PN16
709405624	MJ3107+ 100M x 80M A2 EPDM PN16
709405632	MJ3107+ 125M x 100M A2 EPDM PN16
709405636	MJ3107+ 150M x 100M A2 EPDM PN16
709405638	MJ3107+ 150M x 125M A2 EPDM PN16
709405648	MJ3107+ 200M x 150M A2 EPDM PN16
709405678	MJ3107+ 225M x 200M A2 EPDM PN16
709405682	MJ3107+ 250M x 225M A2 EPDM PN16
709405686	MJ3107+ 300M x 250M A2 EPDM PN16
709405688	MJ3107+ 350M x 300M A2 EPDM PN10
709405689	MJ3107+ 400M x 300M A2 EPDM PN10
709405690	MJ3107+ 400M x 350M A2 EPDM PN10
709405692	MJ3107+ 450M x 400M A2 EPDM PN10

709405693	MJ3107+ 425M x 400M A2 EPDM PN10
709405694	MJ3107+ 500M x 450M A2 EPDM PN10
709405695	MJ3107+ 475M x 425M A2 EPDM PN10
709405696	MJ3107+ 550M x 500M A2 EPDM PN10
709405697	MJ3107+ 600M x 550M A2 EPDM PN10
709451294	MJ3050+ 400F x 400FL A2 NBR AWWA
709451308	MJ3150+ 50F x 40FL A4 EPDM PN16
709451318	MJ3150+ 65F x 80FL A4 EPDM PN16
709451324	MJ3150+ 100F x 80FL A4 EPDM PN16
709451332	MJ3150+ 125F x 100FL A4 EPDM PN16
709451336	MJ3150+ 150F x 100FL A4 EPDM PN16
709451338	MJ3150+ 125F x 150FL A4 EPDM PN16
709451339	MJ3150+ 200F x 150FL A4 EPDM PN16
709451378	MJ3150+ 225F x 200FL A4 EPDM PN10
709451379	MJ3150+ 225F x 200FL A4 EPDM PN16
709451380	MJ3150+ 225F x 250FL A4 EPDM PN10
709451381	MJ3150+ 225F x 250FL A4 EPDM PN16
709451384	MJ3150+ 350F x 300FL A4 EPDM PN10
709451385	MJ3150+ 350F x 300FL A4 EPDM PN16
709451386	MJ3150+ 300F x 250FL A4 EPDM PN10
709451387	MJ3150+ 300F x 250FL A4 EPDM PN16
709451388	MJ3150+ 425F x 400FL A4 EPDM PN10
709451389	MJ3150+ 425F x 400FL A4 EPDM PN10
709451390	MJ3150+ 475F x 400FL A4 EPDM PN10
709451391	MJ3150+ 475F x 400FL A4 EPDM AWWA
709451392	MJ3150+ 450F x 400FL A4 EPDM PN10/PN16
709451394	MJ3050+ 400F x 400FL A4 EPDM AWWA
709451691	MJ3150+ 475F x 400FL A2 EPDM AWWA
709451692	MJ3150+ 450F x 400FL A2 EPDM PN10/PN16
709451694	MJ3050+ 400F x 400FL A2 EPDM AWWA
709455008	MJ3157+ 50M x 40FL A4 NBR PN16
709455018	MJ3157+ 65M x 80FL A4 NBR PN16
709455024	MJ3157+ 100M x 80FL A4 NBR PN16
709455032	MJ3157+ 125M x 100FL A4 NBR PN16
709455036	MJ3157+ 150M x 100FL A4 NBR PN16
709455038	MJ3157+ 125M x 150FL A4 NBR PN16
709455039	MJ3157+ 200M x 150FL A4 NBR PN16
709455078	MJ3157+ 225M x 200FL A4 NBR PN10
709455079	MJ3157+ 225M x 200FL A4 NBR PN16
709455080	MJ3157+ 225M x 250FL A4 NBR PN10
709455081	MJ3157+ 225M x 250FL A4 NBR PN16
709455084	MJ3157+ 350M x 300FL A4 NBR PN10
709455085	MJ3157+ 350M x 300FL A4 NBR PN10
709455086	MJ3157+ 300M x 250FL A4 NBR PN16
709455087	MJ3157+ 300M x 250FL A4 NBR PN16
709455088	MJ3157+ 425M x 400FL A4 NBR PN10
709455089	MJ3157+ 425M x 400FL A4 NBR PN10
709455090	MJ3157+ 475M x 400FL A4 NBR PN10

709455091	MJ3157+ 475M x 400FL A4 NBR AWWA PN10
709455092	MJ3157+ 450M x 400FL A4 NBR PN10/PN16
709455094	MJ3057+ 400M x 400FL A4 NBR AWWA PN10
709455133	MJ3157+ 125M X 100FL A2 NBR T.D AS2129 PN16
709455139	MJ3157+ 125M X 150FL A2 NBR T.D AS2129 PN16
709455159	MJ3157+ 225M X 200FL A2 NBR T.D AS2129 PN16
709455181	MJ3157+ 225M X 250FL A2 NBR T.D AS2129 PN16
709455208	MJ3157+ 50M x 40FL A2 NBR PN16
709455218	MJ3157+ 65M x 80FL A2 NBR PN16
709455224	MJ3157+ 100M x 80FL A2 NBR PN16
709455232	MJ3157+ 125M x 100FL A2 NBR PN16
709455236	MJ3157+ 150M x 100FL A2 NBR PN16
709455238	MJ3157+ 125M x 150FL A2 NBR PN16
709455239	MJ3157+ 200M x 150FL A2 NBR PN16
709455278	MJ3157+ 225M x 200FL A2 NBR PN16
709455279	MJ3157+ 225M x 200FL A2 NBR PN16
709455280	MJ3157+ 225M x 250FL A2 NBR PN16
709455281	MJ3157+ 225M x 250FL A2 NBR PN16
709455284	MJ3157+ 350M x 300FL A2 NBR PN10
709455285	MJ3157+ 350M x 300FL A2 NBR PN10
709455286	MJ3157+ 300M x 250FL A2 NBR PN10
709455287	MJ3157+ 300M x 250FL A2 NBR PN16
709455288	MJ3157+ 425M x 400FL A2 NBR PN10/PN16
709455289	MJ3157+ 425M x 400FL A2 NBR AWWA PN10
709455290	MJ3157+ 475M x 400FL A2 NBR PN10/PN16
709455291	MJ3157+ 475M x 400FL A2 NBR AWWA PN10
709455292	MJ3157+ 450M x 400FL A2 NBR PN10/PN16
709455294	MJ3057+ 400M x 400FL A2 NBR AWWA PN10
709455308	MJ3157+ 50M x 40FL A4 EPDM PN16
709455318	MJ3157+ 65M x 80FL A4 EPDM PN16
709455324	MJ3157+ 100M x 80FL A4 EPDM PN16
709455332	MJ3157+ 125M x 100FL A4 EPDM PN16
709455336	MJ3157+ 150M x 100FL A4 EPDM PN16
709455338	MJ3157+ 125M x 150FL A4 EPDM PN16
709455339	MJ3157+ 200M x 150FL A4 EPDM PN16
709455378	MJ3157+ 225M x 200FL A4 EPDM PN16
709455379	MJ3157+ 225M x 200FL A4 EPDM PN16
709455380	MJ3157+ 225M x 250FL A4 EPDM PN16
709455381	MJ3157+ 225M x 250FL A4 EPDM PN16
709455384	MJ3157+ 350M x 300FL A4 EPDM PN10
709455385	MJ3157+ 350M x 300FL A4 EPDM PN10
709455386	MJ3157+ 300M x 250FL A4 EPDM PN16
709455387	MJ3157+ 300M x 250FL A4 EPDM PN16
709455388	MJ3157+ 425M x 400FL A4 EPDM PN10/PN16
709455389	MJ3157+ 425M x 400FL A4 EPDM AWWA PN10
709455390	MJ3157+ 475M x 400FL A4 EPDM PN10/PN16
709455391	MJ3157+ 475M x 400FL A4 EPDM AWWA PN10
709455392	MJ3157+ 450M x 400FL A4 EPDM PN10/PN16

709455394	MJ3057+ 400M x 400FL A4 EPDM AWWA PN10
709455533	MJ3157+ 125M X 100FL A4 EPDM T.D AS2129 PN16
709455539	MJ3157+ 125M X 150FL A4 EPDM T.D AS2129 PN16
709455559	MJ3157+ 225M X 200FL A4 EPDM T.D AS2129 PN16
709455581	MJ3157+ 225M X 250FL A4 EPDM T.D AS2129 PN16
709455608	MJ3157+ 50M x 40FL A2 EPDM PN16
709455618	MJ3157+ 65M x 80FL A2 EPDM PN16
709455624	MJ3157+ 100M x 80FL A2 EPDM PN16
709455632	MJ3157+ 125M x 100FL A2 EPDM PN16
709455636	MJ3157+ 150M x 100FL A2 EPDM PN16
709455638	MJ3157+ 125M x 150FL A2 EPDM PN16
709455639	MJ3157+ 200M x 150FL A2 EPDM PN16
709455678	MJ3157+ 225M x 200FL A2 EPDM PN16
709455679	MJ3157+ 225M x 200FL A2 EPDM PN16
709455680	MJ3157+ 225M x 250FL A2 EPDM PN16
709455681	MJ3157+ 225M x 250FL A2 EPDM PN16
709455684	MJ3157+ 350M x 300FL A2 EPDM PN10
709455685	MJ3157+ 350M x 300FL A2 EPDM PN10
709455686	MJ3157+ 300M x 250FL A2 EPDM PN16
709455687	MJ3157+ 300M x 250FL A2 EPDM PN16
709455688	MJ3157+ 425M x 400FL A2 EPDM PN10/PN16 PN10
709455689	MJ3157+ 425M x 400FL A2 EPDM AWWA PN10
709455690	MJ3157+ 475M x 400FL A2 EPDM PN10/PN16
709455691	MJ3157+ 475M x 400FL A2 EPDM AWWA PN10
709455692	MJ3157+ 450M x 400FL A2 EPDM PN10/PN16
709455694	MJ3057+ 400M x 400FL A2 EPDM AWWA PN10
709455833	MJ3157+ 125M X 100FL A4 NBR T.D AS2129 PN16
709455839	MJ3157+ 125M X 150FL A4 NBR T.D AS2129 PN16
709455859	MJ3157+ 225M X 200FL A4 NBR T.D AS2129 PN16
709455881	MJ3157+ 225M X 250FL A4 NBR T.D AS2129 PN16
709465016	MJ3067+ 100M x d. 90 A4 NBR PN16
709465017	MJ3067+ 100M x d.125 A4 NBR PN16
709465018	MJ3067+ 125M x d.110 A4 NBR PN16
709465019	MJ3067+ 125M x d.140 A4 NBR PN16
709465020	MJ3067+ 150M x d.180 A4 NBR PN16
709465021	MJ3067+ 125M X D.160 A4 NBR PN16
709465024	MJ3067+ 200M x d.225 A4 NBR PN16
709465028	MJ3067+ 250M x d.280 A4 NBR PN16
709465216	MJ3067+ 100M x d. 90 A2 NBR PN16
709465217	MJ3067+ 100M x d.125 A2 NBR PN16
709465218	MJ3067+ 125M x d.110 A2 NBR PN16
709465219	MJ3067+ 125M x d.140 A2 NBR PN16
709465220	MJ3067+ 150M x d.180 A2 NBRPN16
709465221	MJ3067+ 125M X D.160 A2 NBR PN16
709465224	MJ3067+ 200M x d.225 A2 NBR PN16
709465228	MJ3067+ 250M x d.280 A2 NBR PN16
709465316	MJ3067+ 100M x d. 90 A4 EPDM PN16
709465317	MJ3067+ 100M x d.125 A4 EPDM PN16

709465318	MJ3067+ 125M x d.110 A4 EPDM PN16
709465319	MJ3067+ 125M x d.140 A4 EPDM PN16
709465320	MJ3067+ 150M x d.180 A4 EPDM PN16
709465321	MJ3067+ 125M X D.160 A4 EPDM PN16
709465324	MJ3067+ 200M x d.225 A4 EPDM PN16
709465328	MJ3067+ 250M x d.280 A4 EPDM PN16
709465616	MJ3067+ 100M x d. 90 A2 EPDM PN16
709465617	MJ3067+ 100M x d.125 A2 EPDM PN16
709465618	MJ3067+ 125M x d.110 A2 EPDM PN16
709465619	MJ3067+ 125M x d.140 A2 EPDM PN16
709465620	MJ3067+ 150M x d.180 A2 EPDM PN16
709465621	MJ3067+ 125M X D.160 A2 EPDM PN16
709465624	MJ3067+ 200M x d.225 A2 EPDM PN16
709465628	MJ3067+ 250M x d.280 A2 EPDM PN16
709475014	MJ3407+ 80M x 80M A4 NBR PN16
709475016	MJ3407+ 100M x 100M A4 NBR PN16
709475020	MJ3407+ 150M x 150M A4 NBR PN16
709475214	MJ3407+ 80M x 80M A2 NBR PN16
709475216	MJ3407+ 100M x 100M A2 NBR PN16
709475220	MJ3407+ 150M x 150M A2 NBR PN16
709475314	MJ3407+ 80M x 80M A4 EPDM PN16
709475316	MJ3407+ 100M x 100M A4 EPDM PN16
709475320	MJ3407+ 150M x 150M A4 EPDM PN16
709475614	MJ3407+ 80M x 80M A2 EPDM PN16
709475616	MJ3407+ 100M x 100M A2 EPDM PN16
709475620	MJ3407+ 150M x 150M A2 EPDM PN16
709385371	MJ3207+ 200M X 3/4" NPT A4 EPDM PN16
709385370	MJ3207+ 150M X 3/4" NPT A4 EPDM PN16
709355385	MJ3057+ 600M x 600FL A4 EPDM AWWA PN10
724211010	MC SINGLE 19- 23 L=150 NBR PN16
724211011	MC SINGLE 19- 23 L=150 NBR PN16
724211026	MC SINGLE 25- 29 L= 75 NBR PN16
724211027	MC SINGLE 25- 29 L=150 NBR PN16
724211042	MC SINGLE 32- 36 L= 75 NBR PN16
724211043	MC SINGLE 32- 36 L=150 NBR PN16
724211058	MC SINGLE 38- 42 L= 75 NBR PN16
724211059	MC SINGLE 38- 42 L=150 NBR PN16
724211074	MC SINGLE 44- 51 L=75 NBR
724211075	MC SINGLE 44- 51 L=150 NBR PN16
724211076	MC SINGLE 44- 51 L=200 NBR PN16
724211091	MC SINGLE 48- 55 L=150 NBR PN16
724211092	MC SINGLE 48- 55 L=200 NBR PN16
724211107	MC SINGLE 52- 59 L=150 NBR PN16
724211108	MC SINGLE 52- 59 L=200 NBR PN16
724211123	MC SINGLE 57- 64 L=150 NBR PN16
724211124	MC SINGLE 57- 64 L=200 NBR PN16
724211139	MC SINGLE 60- 67 L=150 NBR PN16
724211140	MC SINGLE 60- 67 L=200 NBR PN16

724211141	MC SINGLE 60- 67 L=250 NBR PN16
724211142	MC SINGLE 60- 67 L=300 NBR PN16
724211155	MC SINGLE 63- 70 L=150 NBR PN16
724211156	MC SINGLE 63- 70 L=200 NBR PN16
724211157	MC SINGLE 63- 70 L=250 NBR PN16
724211158	MC SINGLE 63- 70 L=300 NBR PN16
724211159	MC SINGLE 63- 70 L=400 NBR PN16
724211171	MC SINGLE 67- 74 L=150 NBR PN16
724211172	MC SINGLE 67- 74 L=200 NBR PN16
724211173	MC SINGLE 67- 74 L=250 NBR PN16
724211174	MC SINGLE 67- 74 L=300 NBR PN16
724211175	MC SINGLE 67- 74 L=400 NBR PN16
724211187	MC SINGLE 70- 77 L=150 NBR PN16
724211188	MC SINGLE 70- 77 L=200 NBR PN16
724211189	MC SINGLE 70- 77 L=250 NBR PN16
724211190	MC SINGLE 70- 77 L=300 NBR PN16
724211191	MC SINGLE 70- 77 L=400 NBR PN16
724211203	MC SINGLE 73- 80 L=150 NBR PN16
724211204	MC SINGLE 73- 80 L=200 NBR PN16
724211205	MC SINGLE 73- 80 L=250 NBR PN16
724211206	MC SINGLE 73- 80 L=300 NBR PN16
724211207	MC SINGLE 73- 80 L=400 NBR PN16
724211219	MC SINGLE 75- 83 L=150 NBR PN16
724211220	MC SINGLE 75- 83 L=200 NBR PN16
724211221	MC SINGLE 75- 83 L=250 NBR PN16
724211222	MC SINGLE 75- 83 L=300 NBR PN16
724211223	MC SINGLE 75- 83 L=400 NBR PN16
724211235	MC SINGLE 82- 90 L=150 NBR PN16
724211236	MC SINGLE 82- 90 L=200 NBR PN16
724211237	MC SINGLE 82- 90 L=250 NBR PN16
724211238	MC SINGLE 82- 90 L=300 NBR PN16
724211239	MC SINGLE 82- 90 L=400 NBR PN16
724211251	MC SINGLE 87- 97 L=150 NBR PN16
724211252	MC SINGLE 87- 97 L=200 NBR PN16
724211253	MC SINGLE 87- 97 L=250 NBR PN16
724211254	MC SINGLE 87- 97 L=300 NBR PN16
724211255	MC SINGLE 87- 97 L=400 NBR PN16
724211267	MC SINGLE 95- 104 L=150 NBR PN16
724211268	MC SINGLE 95- 104 L=200 NBR PN16
724211269	MC SINGLE 95- 104 L=250 NBR PN16
724211270	MC SINGLE 95- 104 L=300 NBR PN16
724211271	MC SINGLE 95- 104 L=400 NBR PN16
724211283	MC SINGLE 98- 108 L=150 NBR PN16
724211284	MC SINGLE 98- 108 L=200 NBR PN16
724211285	MC SINGLE 98- 108 L=250 NBR PN16
724211286	MC SINGLE 98- 108 L=300 NBR PN16
724211287	MC SINGLE 98- 108 L=400 NBR PN16
724211299	MC SINGLE 102- 112 L=150 NBR PN16

724211300	MC SINGLE 102- 112 L=200 NBR PN16
724211301	MC SINGLE 102- 112 L=250 NBR PN16
724211302	MC SINGLE 102- 112 L=300 NBR PN16
724211303	MC SINGLE 102- 112 L=400 NBR PN16
724211315	MC SINGLE 108- 118 L=150 NBR PN16
724211316	MC SINGLE 108- 118 L=200 NBR PN16
724211317	MC SINGLE 108- 118 L=250 NBR PN16
724211318	MC SINGLE 108- 118 L=300 NBR PN16
724211319	MC SINGLE 108- 118 L=400 NBR PN16
724211320	MC SINGLE 108- 118 L=500 NBR PN16
724211331	MC SINGLE 113- 123 L=150 NBR PN16
724211332	MC SINGLE 113- 123 L=200 NBR PN16
724211333	MC SINGLE 113- 123 L=250 NBR PN16
724211334	MC SINGLE 113- 123 L=300 NBR PN16
724211335	MC SINGLE 113- 123 L=400 NBR PN16
724211336	MC SINGLE 113- 123 L=500 NBR PN16
724211347	MC SINGLE 118- 128 L=150 NBR PN16
724211348	MC SINGLE 118- 128 L=200 NBR PN16
724211349	MC SINGLE 118- 128 L=250 NBR PN16
724211350	MC SINGLE 118- 128 L=300 NBR PN16
724211351	MC SINGLE 118- 128 L=400 NBR PN16
724211352	MC SINGLE 118- 128 L=500 NBR PN16
724211363	MC SINGLE 120- 131 L=150 NBR PN16
724211364	MC SINGLE 120- 131 L=200 NBR PN16
724211365	MC SINGLE 120- 131 L=250 NBR PN16
724211366	MC SINGLE 120- 131 L=300 NBR PN16
724211367	MC SINGLE 120- 131 L=400 NBR PN16
724211368	MC SINGLE 120- 131 L=500 NBR PN16
724211379	MC SINGLE 125- 135 L=150 NBR PN16
724211380	MC SINGLE 125- 135 L=200 NBR PN16
724211381	MC SINGLE 125- 135 L=250 NBR PN16
724211382	MC SINGLE 125- 135 L=300 NBR PN16
724211383	MC SINGLE 125- 135 L=400 NBR PN16
724211384	MC SINGLE 125- 135 L=500 NBR PN16
724211395	MC SINGLE 133- 144 L=150 NBR PN16
724211396	MC SINGLE 133- 144 L=200 NBR PN16
724211397	MC SINGLE 133- 144 L=250 NBR PN16
724211398	MC SINGLE 133- 144 L=300 NBR PN16
724211399	MC SINGLE 133- 144 L=400 NBR PN16
724211400	MC SINGLE 133- 144 L=500 NBR PN16
724211411	MC SINGLE 139- 150 L=150 NBR PN16
724211412	MC SINGLE 139- 150 L=200 NBR PN16
724211413	MC SINGLE 139- 150 L=250 NBR PN16
724211414	MC SINGLE 139- 150 L=300 NBR PN16
724211415	MC SINGLE 139- 150 L=400 NBR PN16
724211416	MC SINGLE 139- 150 L=500 NBR PN16
724211427	MC SINGLE 145- 155 L=150 NBR PN16
724211428	MC SINGLE 145- 155 L=200 NBR PN16

724211429	MC SINGLE 145- 155 L=250 NBR PN16
724211430	MC SINGLE 145- 155 L=300 NBR PN16
724211431	MC SINGLE 145- 155 L=400 NBR PN16
724211432	MC SINGLE 145- 155 L=500 NBR PN16
724211443	MC SINGLE 151- 161 L=150 NBR
724211444	MC SINGLE 151- 161 L=200 NBR PN16
724211445	MC SINGLE 151- 161 L=250 NBR PN16
724211446	MC SINGLE 151- 161 L=300 NBR PN16
724211447	MC SINGLE 151- 161 L=400 NBR PN16
724211448	MC SINGLE 151- 161 L=500 NBR PN16
724211459	MC SINGLE 159- 170 L=150 NBR
724211460	MC SINGLE 159- 170 L=200 NBR PN16
724211461	MC SINGLE 159- 170 L=250 NBR PN16
724211462	MC SINGLE 159- 170 L=300 NBR PN16
724211463	MC SINGLE 159- 170 L=400 NBR PN16
724211464	MC SINGLE 159- 170 L=500 NBR PN16
724211475	MC SINGLE 165- 175 L=150 NBR
724211476	MC SINGLE 165- 175 L=200 NBR PN16
724211477	MC SINGLE 165- 175 L=250 NBR PN16
724211478	MC SINGLE 165- 175 L=300 NBR PN16
724211479	MC SINGLE 165- 175 L=400 NBR PN16
724211480	MC SINGLE 165- 175 L=500 NBR PN16
724211491	MC SINGLE 168- 180 L=150 NBR PN16
724211492	MC SINGLE 168- 180 L=200 NBR PN16
724211493	MC SINGLE 168- 180 L=250 NBR PN16
724211494	MC SINGLE 168- 180 L=300 NBR PN16
724211495	MC SINGLE 168- 180 L=400 NBR PN16
724211496	MC SINGLE 168- 180 L=500 NBR PN16
724211508	MC SINGLE 176- 186 L=200 NBR PN10
724211509	MC SINGLE 176- 186 L=250 NBR PN10
724211510	MC SINGLE 176- 186 L=300 NBR PN10
724211511	MC SINGLE 176- 186 L=400 NBR PN10
724211512	MC SINGLE 176- 186 L=500 NBR PN10
724211524	MC SINGLE 180- 191 L=200 NBR PN10
724211525	MC SINGLE 180- 191 L=250 NBR PN10
724211526	MC SINGLE 180- 191 L=300 NBR PN10
724211527	MC SINGLE 180- 191 L=400 NBR PN10
724211528	MC SINGLE 180- 191 L=500 NBR PN10
724211540	MC SINGLE 193- 203 L=200 NBR PN10
724211541	MC SINGLE 193- 203 L=250 NBR PN10
724211542	MC SINGLE 193- 203 L=300 NBR PN10
724211543	MC SINGLE 193- 203 L=400 NBR PN10
724211544	MC SINGLE 193- 203 L=500 NBR PN10
724211556	MC SINGLE 200- 210 L=200 NBR PN10
724211557	MC SINGLE 200- 210 L=250 NBR PN10
724211558	MC SINGLE 200- 210 L=300 NBR PN10
724211559	MC SINGLE 200- 210 L=400 NBR PN10
724211560	MC SINGLE 200- 210 L=500 NBR PN10

724211572	MC SINGLE 209- 220 L=200 NBR PN10
724211573	MC SINGLE 209- 220 L=250 NBR PN10
724211574	MC SINGLE 209- 220 L=300 NBR PN10
724211575	MC SINGLE 209- 220 L=400 NBR PN10
724211576	MC SINGLE 209- 220 L=500 NBR PN10
724211588	MC SINGLE 215- 226 L=200 NBR PN10
724211589	MC SINGLE 215- 226 L=250 NBR PN10
724211590	MC SINGLE 215- 226 L=300 NBR PN10
724211591	MC SINGLE 215- 226 L=400 NBR PN10
724211592	MC SINGLE 215- 226 L=500 NBR PN10
724211604	MC SINGLE 219- 230 L=200 NBR PN10
724211605	MC SINGLE 219- 230 L=250 NBR PN10
724211606	MC SINGLE 219- 230 L=300 NBR PN10
724211607	MC SINGLE 219- 230 L=400 NBR PN10
724211608	MC SINGLE 219- 230 L=500 NBR PN10
724211620	MC SINGLE 222- 233 L=200 NBR PN10
724211621	MC SINGLE 222- 233 L=250 NBR PN10
724211622	MC SINGLE 222- 233 L=300 NBR PN10
724211623	MC SINGLE 222- 233 L=400 NBR PN10
724211624	MC SINGLE 222- 233 L=500 NBR PN10
724211625	MC SINGLE 222- 233 L=600 NBR
724211636	MC SINGLE 228- 240 L=200 NBR PN10
724211637	MC SINGLE 228- 240 L=250 NBR PN10
724211638	MC SINGLE 228- 240 L=300 NBR PN10
724211639	MC SINGLE 228- 240 L=400 NBR PN10
724211640	MC SINGLE 228- 240 L=500 NBR PN10
724211641	MC SINGLE 228- 240 L=600 NBR PN10
724211652	MC SINGLE 243- 253 L=200 NBR PN10
724211653	MC SINGLE 243- 253 L=250 NBR PN10
724211654	MC SINGLE 243- 253 L=300 NBR PN10
724211655	MC SINGLE 243- 253 L=400 NBR PN10
724211656	MC SINGLE 243- 253 L=500 NBR PN10
724211657	MC SINGLE 243- 253 L=600 NBR PN10
724211668	MC SINGLE 252- 262 L=200 NBR PN10
724211669	MC SINGLE 252- 262 L=250 NBR PN10
724211670	MC SINGLE 252- 262 L=300 NBR PN10
724211671	MC SINGLE 252- 262 L=400 NBR PN10
724211672	MC SINGLE 252- 262 L=500 NBR PN10
724211673	MC SINGLE 252- 262 L=600 NBR PN10
724211684	MC SINGLE 261- 271 L=200 NBR PN10
724211685	MC SINGLE 261- 271 L=250 NBR PN10
724211686	MC SINGLE 261- 271 L=300 NBR PN10
724211687	MC SINGLE 261- 271 L=400 NBR PN10
724211688	MC SINGLE 261- 271 L=500 NBR PN10
724211689	MC SINGLE 261- 271 L=600 NBR PN10
724211700	MC SINGLE 271- 281 L=200 NBR PN10
724211701	MC SINGLE 271- 281 L=250 NBR PN10
724211702	MC SINGLE 271- 281 L=300 NBR PN10

724211703	MC SINGLE 271- 281 L=400 NBR PN10
724211704	MC SINGLE 271- 281 L=500 NBR PN10
724211705	MC SINGLE 271- 281 L=600 NBR PN10
724211716	MC SINGLE 280- 290 L=200 NBR PN10
724211717	MC SINGLE 280- 290 L=250 NBR PN10
724211718	MC SINGLE 280- 290 L=300 NBR PN10
724211719	MC SINGLE 280- 290 L=400 NBR PN10
724211720	MC SINGLE 280- 290 L=500 NBR PN10
724211721	MC SINGLE 280- 290 L=600 NBR PN10
724211732	MC SINGLE 294- 304 L=200 NBR
724211733	MC SINGLE 294- 304 L=250 NBR PN10
724211734	MC SINGLE 294- 304 L=300 NBR PN10
724211735	MC SINGLE 294- 304 L=400 NBR PN10
724211736	MC SINGLE 294- 304 L=500 NBR PN10
724211737	MC SINGLE 294- 304 L=600 NBR PN10
724211748	MC SINGLE 300- 310 L=200 NBR
724211749	MC SINGLE 300- 310 L=250 NBR
724211750	MC SINGLE 300- 310 L=300 NBR PN10
724211751	MC SINGLE 300- 310 L=400 NBR PN10
724211752	MC SINGLE 300- 310 L=500 NBR PN10
724211753	MC SINGLE 300- 310 L=600 NBR PN10
724211764	MC SINGLE 310- 320 L=200 NBR
724211765	MC SINGLE 310- 320 L=250 NBR
724211766	MC SINGLE 310- 320 L=300 NBR
724211767	MC SINGLE 310- 320 L=400 NBR PN10
724211768	MC SINGLE 310- 320 L=500 NBR PN10
724211769	MC SINGLE 310- 320 L=600 NBR PN10
724211780	MC SINGLE 315- 326 L=200 NBR PN10
724211781	MC SINGLE 315- 326 L=250 NBR
724211782	MC SINGLE 315- 326 L=300 NBR
724211783	MC SINGLE 315- 326 L=400 NBR
724211784	MC SINGLE 315- 326 L=500 NBR PN10
724211785	MC SINGLE 315- 326 L=600 NBR PN10
724211796	MC SINGLE 320- 330 L=200 NBR PN10
724211797	MC SINGLE 320- 330 L=250 NBR PN10
724211798	MC SINGLE 320- 330 L=300 NBR
724211799	MC SINGLE 320- 330 L=400 NBR
724211800	MC SINGLE 320- 330 L=500 NBR PN10
724211801	MC SINGLE 320- 330 L=600 NBR PN10
724211812	MC SINGLE 324- 334 L=200 NBR PN10
724211813	MC SINGLE 324- 334 L=250 NBR PN10
724211814	MC SINGLE 324- 334 L=300 NBR PN10
724211815	MC SINGLE 324- 334 L=400 NBR
724211816	MC SINGLE 324- 334 L=500 NBR PN10
724211817	MC SINGLE 324- 334 L=600 NBR PN10
724211828	MC SINGLE 335- 346 L=200 NBR PN10
724211829	MC SINGLE 335- 346 L=250 NBR PN10
724211830	MC SINGLE 335- 346 L=300 NBR PN10

724211831	MC SINGLE 335- 346 L=400 NBR PN10
724211832	MC SINGLE 335- 346 L=500 NBR PN10
724211833	MC SINGLE 335- 346 L=600 NBR PN10
724211834	MC SINGLE 52-59 L=300 NBR
724211835	MC SINGLE 87- 97 L=250 NBR 316
724211836	MC SINGLE 102- 112 L=250 NBR 316
724211837	MC SINGLE 57- 64 L=200 NBR AISI 316
724211838	MC SINGLE 87- 97 L=200 NBR AISI 316
724211900	MC SINGLE 50-57 L=200 NBR
724211901	MC SINGLE 174-184 L=250 NBR
724211902	MC SINGLE 174-184 L=300 NBR
724211903	MC SINGLE 89-98 L=200 NBR
724211904	MC SINGLE 89-98 L=300 NBR
724211905	MC SINGLE 89-98 L=250 NBR
724211906	MC SINGLE 57-64 L=250 NBR
724212058	MC DOUBLE 88- 110 L=200 NBR PN16
724212059	MC DOUBLE 88- 110 L=250 NBR PN16
724212060	MC DOUBLE 88- 110 L=300 NBR
724212061	MC DOUBLE 88- 110 L=400 NBR
724212062	MC DOUBLE 88- 110 L=500 NBR PN16
724212074	MC DOUBLE 108- 128 L=200 NBR PN16
724212075	MC DOUBLE 108- 128 L=250 NBR PN16
724212076	MC DOUBLE 108- 128 L=300 NBR PN16
724212077	MC DOUBLE 108- 128 L=400 NBR
724212078	MC DOUBLE 108- 128 L=500 NBR PN16
724212090	MC DOUBLE 112- 134 L=200 NBR PN16
724212091	MC DOUBLE 112- 134 L=250 NBR PN16
724212092	MC DOUBLE 112- 134 L=300 NBR PN16
724212093	MC DOUBLE 112- 134 L=400 NBR
724212094	MC DOUBLE 112- 134 L=500 NBR PN16
724212106	MC DOUBLE 120- 140 L=200 NBR PN16
724212107	MC DOUBLE 120- 140 L=250 NBR PN16
724212108	MC DOUBLE 120- 140 L=300 NBR PN16
724212109	MC DOUBLE 120- 140 L=400 NBR
724212110	MC DOUBLE 120- 140 L=500 NBR PN16
724212122	MC DOUBLE 133- 155 L=200 NBR PN16
724212123	MC DOUBLE 133- 155 L=250 NBR PN16
724212124	MC DOUBLE 133- 155 L=300 NBR PN16
724212125	MC DOUBLE 133- 155 L=400 NBR
724212126	MC DOUBLE 133- 155 L=500 NBR PN16
724212138	MC DOUBLE 138- 160 L=200 NBR PN16
724212139	MC DOUBLE 138- 160 L=250 NBR PN16
724212140	MC DOUBLE 138- 160 L=300 NBR PN16
724212141	MC DOUBLE 138- 160 L=400 NBR
724212142	MC DOUBLE 138- 160 L=500 NBR PN16
724212154	MC DOUBLE 158- 180 L=200 NBR PN16
724212155	MC DOUBLE 158- 180 L=250 NBR PN16
724212156	MC DOUBLE 158- 180 L=300 NBR PN16

724212157	MC DOUBLE 158- 180 L=400 NBR
724212158	MC DOUBLE 158- 180 L=500 NBR PN16
724212170	MC DOUBLE 168- 190 L=200 NBR PN16
724212171	MC DOUBLE 168- 190 L=250 NBR PN16
724212172	MC DOUBLE 168- 190 L=300 NBR PN16
724212173	MC DOUBLE 168- 190 L=400 NBR
724212174	MC DOUBLE 168- 190 L=500 NBR PN16
724212186	MC DOUBLE 190- 210 L=200 NBR PN10
724212187	MC DOUBLE 190- 210 L=250 NBR PN10
724212188	MC DOUBLE 190- 210 L=300 NBR PN10
724212189	MC DOUBLE 190- 210 L=400 NBR
724212190	MC DOUBLE 190- 210 L=500 NBR PN10
724212202	MC DOUBLE 195- 217 L=200 NBR PN10
724212203	MC DOUBLE 195- 217 L=250 NBR PN10
724212204	MC DOUBLE 195- 217 L=300 NBR PN10
724212205	MC DOUBLE 195- 217 L=400 NBR
724212206	MC DOUBLE 195- 217 L=500 NBR PN10
724212218	MC DOUBLE 210- 230 L=200 NBR PN10
724212219	MC DOUBLE 210- 230 L=250 NBR PN10
724212220	MC DOUBLE 210- 230 L=300 NBR PN10
724212221	MC DOUBLE 210- 230 L=400 NBR
724212222	MC DOUBLE 210- 230 L=500 NBR PN10
724212234	MC DOUBLE 216- 238 L=200 NBR PN10
724212235	MC DOUBLE 216- 238 L=250 NBR PN10
724212236	MC DOUBLE 216- 238 L=300 NBR PN10
724212237	MC DOUBLE 216- 238 L=400 NBR
724212238	MC DOUBLE 216- 238 L=500 NBR PN10
724212240	MC DOUBLE 216- 238 L=750 NBR
724212250	MC DOUBLE 225- 246 L=200 NBR PN10
724212251	MC DOUBLE 225- 246 L=250 NBR PN10
724212252	MC DOUBLE 225- 246 L=300 NBR PN10
724212253	MC DOUBLE 225- 246 L=400 NBR
724212254	MC DOUBLE 225- 246 L=500 NBR PN10
724212258	MC DOUBLE 230- 250 L=200 NBR
724212259	MC DOUBLE 230- 250 L=250 NBR
724212260	MC DOUBLE 230- 250 L=300 NBR
724212261	MC DOUBLE 230- 250 L=400 NBR
724212262	MC DOUBLE 230- 250 L=500 NBR
724212266	MC DOUBLE 238- 260 L=200 NBR PN10
724212267	MC DOUBLE 238- 260 L=250 NBR PN10
724212268	MC DOUBLE 238- 260 L=300 NBR PN10
724212269	MC DOUBLE 238- 260 L=400 NBR
724212270	MC DOUBLE 238- 260 L=500 NBR PN10
724212282	MC DOUBLE 251- 271 L=200 NBR PN10
724212283	MC DOUBLE 251- 271 L=250 NBR PN10
724212284	MC DOUBLE 251- 271 L=300 NBR PN10
724212285	MC DOUBLE 251- 271 L=400 NBR
724212286	MC DOUBLE 251- 271 L=500 NBR PN10

724212298	MC DOUBLE 260- 280 L=200 NBR
724212299	MC DOUBLE 260- 280 L=250 NBR PN10
724212300	MC DOUBLE 260- 280 L=300 NBR PN10
724212301	MC DOUBLE 260- 280 L=400 NBR
724212302	MC DOUBLE 260- 280 L=500 NBR PN10
724212314	MC DOUBLE 269- 289 L=200 NBR
724212315	MC DOUBLE 269- 289 L=250 NBR PN10
724212316	MC DOUBLE 269- 289 L=300 NBR PN10
724212317	MC DOUBLE 269- 289 L=400 NBR
724212318	MC DOUBLE 269- 289 L=500 NBR PN10
724212330	MC DOUBLE 273- 293 L=200 NBR
724212331	MC DOUBLE 273- 293 L=250 NBR PN10
724212332	MC DOUBLE 273- 293 L=300 NBR PN10
724212333	MC DOUBLE 273- 293 L=400 NBR
724212334	MC DOUBLE 273- 293 L=500 NBR PN10
724212339	MC DOUBLE 280- 300 L=250 NBR
724212346	MC DOUBLE 295- 315 L=200 NBR PN10
724212347	MC DOUBLE 295- 315 L=250 NBR PN10
724212348	MC DOUBLE 295- 315 L=300 NBR PN10
724212349	MC DOUBLE 295- 315 L=400 NBR
724212350	MC DOUBLE 295- 315 L=500 NBR PN10
724212363	MC DOUBLE 314- 335 L=250 NBR PN10
724212364	MC DOUBLE 314- 335 L=300 NBR PN10
724212365	MC DOUBLE 314- 335 L=400 NBR
724212366	MC DOUBLE 314- 335 L=500 NBR PN10
724212367	MC DOUBLE 314- 335 L=600 NBR PN10
724212368	MC DOUBLE 314- 335 L=750 NBR
724212379	MC DOUBLE 322- 344 L=250 NBR PN10
724212380	MC DOUBLE 322- 344 L=300 NBR PN10
724212381	MC DOUBLE 322- 344 L=400 NBR
724212382	MC DOUBLE 322- 344 L=500 NBR PN10
724212383	MC DOUBLE 322- 344 L=600 NBR PN10
724212395	MC DOUBLE 334- 354 L=250 NBR PN10
724212396	MC DOUBLE 334- 354 L=300 NBR PN10
724212397	MC DOUBLE 334- 354 L=400 NBR
724212398	MC DOUBLE 334- 354 L=500 NBR PN10
724212399	MC DOUBLE 334- 354 L=600 NBR PN10
724212411	MC DOUBLE 340- 360 L=250 NBR PN10
724212412	MC DOUBLE 340- 360 L=300 NBR PN10
724212413	MC DOUBLE 340- 360 L=400 NBR
724212414	MC DOUBLE 340- 360 L=500 NBR PN10
724212415	MC DOUBLE 340- 360 L=600 NBR PN10
724212428	MC DOUBLE 348- 368 L=300 NBR PN10
724212429	MC DOUBLE 348- 368 L=400 NBR
724212430	MC DOUBLE 348- 368 L=500 NBR PN10
724212431	MC DOUBLE 348- 368 L=600 NBR PN10
724212444	MC DOUBLE 365- 385 L=300 NBR PN10
724212445	MC DOUBLE 365- 385 L=400 NBR

724212446	MC DOUBLE 365- 385 L=500 NBR PN10
724212447	MC DOUBLE 365- 385 L=600 NBR
724212460	MC DOUBLE 376- 396 L=300 NBR PN10
724212461	MC DOUBLE 376- 396 L=400 NBR
724212462	MC DOUBLE 376- 396 L=500 NBR PN10
724212463	MC DOUBLE 376- 396 L=600 NBR
724212476	MC DOUBLE 382- 402 L=300 NBR PN10
724212477	MC DOUBLE 382- 402 L=400 NBR
724212478	MC DOUBLE 382- 402 L=500 NBR PN10
724212479	MC DOUBLE 382- 402 L=600 NBR
724212492	MC DOUBLE 390- 410 L=300 NBR PN10
724212493	MC DOUBLE 390- 410 L=400 NBR
724212494	MC DOUBLE 390- 410 L=500 NBR PN10
724212495	MC DOUBLE 390- 410 L=600 NBR PN10
724212508	MC DOUBLE 404- 424 L=300 NBR PN10
724212509	MC DOUBLE 404- 424 L=400 NBR
724212510	MC DOUBLE 404- 424 L=500 NBR PN10
724212511	MC DOUBLE 404- 424 L=600 NBR PN10
724212524	MC DOUBLE 420- 440 L=300 NBR PN10
724212525	MC DOUBLE 420- 440 L=400 NBR
724212526	MC DOUBLE 420- 440 L=500 NBR PN10
724212527	MC DOUBLE 420- 440 L=600 NBR PN10
724212528	MC DOUBLE 420- 440 L=750 NBR PN10
724212541	MC DOUBLE 440- 460 L=400 NBR
724212542	MC DOUBLE 440- 460 L=500 NBR PN10
724212543	MC DOUBLE 440- 460 L=600 NBR PN10
724212544	MC DOUBLE 440- 460 L=750 NBR PN10
724212557	MC DOUBLE 457- 477 L=400 NBR
724212558	MC DOUBLE 457- 477 L=500 NBR PN10
724212559	MC DOUBLE 457- 477 L=600 NBR PN10
724212560	MC DOUBLE 457- 477 L=750 NBR PN10
724212573	MC DOUBLE 468- 488 L=400 NBR
724212574	MC DOUBLE 468- 488 L=500 NBR PN10
724212575	MC DOUBLE 468- 488 L=600 NBR PN10
724212576	MC DOUBLE 468- 488 L=750 NBR PN10
724212589	MC DOUBLE 488- 508 L=400 NBR
724212590	MC DOUBLE 488- 508 L=500 NBR PN10
724212591	MC DOUBLE 488- 508 L=600 NBR PN10
724212592	MC DOUBLE 488- 508 L=750 NBR PN10
724212605	MC DOUBLE 500- 520 L=400 NBR
724212606	MC DOUBLE 500- 520 L=500 NBR PN10
724212607	MC DOUBLE 500- 520 L=600 NBR PN10
724212608	MC DOUBLE 500- 520 L=750 NBR PN10
724212621	MC DOUBLE 520- 540 L=400 NBR
724212622	MC DOUBLE 520- 540 L=500 NBR PN6
724212623	MC DOUBLE 520- 540 L=600 NBR PN6
724212624	MC DOUBLE 520- 540 L=750 NBR PN6
724212637	MC DOUBLE 527- 547 L=400 NBR

724212638	MC DOUBLE 527- 547 L=500 NBR PN6
724212639	MC DOUBLE 527- 547 L=600 NBR PN6
724212640	MC DOUBLE 527- 547 L=750 NBR PN6
724212653	MC DOUBLE 545- 565 L=400 NBR
724212654	MC DOUBLE 545- 565 L=500 NBR PN6
724212655	MC DOUBLE 545- 565 L=600 NBR PN6
724212656	MC DOUBLE 545- 565 L=750 NBR PN6
724212668	MC DOUBLE 550-570 L=300 NBR
724212669	MC DOUBLE 555- 570 L=400 NBR
724212670	MC DOUBLE 555- 570 L=500 NBR PN6
724212671	MC DOUBLE 555- 570 L=600 NBR PN6
724212672	MC DOUBLE 555- 570 L=750 NBR PN6
724212685	MC DOUBLE 568- 588 L=400 NBR
724212686	MC DOUBLE 568- 588 L=500 NBR PN6
724212687	MC DOUBLE 568- 588 L=600 NBR PN6
724212688	MC DOUBLE 568- 588 L=750 NBR PN6
724212701	MC DOUBLE 568- 606 L=400 NBR
724212702	MC DOUBLE 568- 606 L=500 NBR PN6
724212703	MC DOUBLE 568- 606 L=600 NBR PN6
724212704	MC DOUBLE 568- 606 L=750 NBR PN6
724212717	MC DOUBLE 600- 620 L=400 NBR
724212718	MC DOUBLE 600- 620 L=500 NBR PN6
724212719	MC DOUBLE 600- 620 L=600 NBR PN6
724212720	MC DOUBLE 600- 620 L=750 NBR PN6
724212733	MC DOUBLE 625- 645 L=400 NBR
724212734	MC DOUBLE 625- 645 L=500 NBR PN6
724212735	MC DOUBLE 625- 645 L=600 NBR PN6
724212736	MC DOUBLE 625- 645 L=750 NBR PN6
724212749	MC DOUBLE 650- 670 L=400 NBR
724212750	MC DOUBLE 650- 670 L=500 NBR PN6
724212751	MC DOUBLE 650- 670 L=600 NBR PN6
724212752	MC DOUBLE 650- 670 L=750 NBR PN6
724212767	MC DOUBLE 705- 725 L=600 NBR PN4
724212768	MC DOUBLE 705- 725 L=750 NBR PN4
724212783	MC DOUBLE 730- 750 L=600 NBR PN4
724212784	MC DOUBLE 730- 750 L=750 NBR
724212799	MC DOUBLE 755- 775 L=600 NBR PN4
724212800	MC DOUBLE 755- 775 L=750 NBR
724212815	MC DOUBLE 805- 825 L=600 NBR PN3
724212816	MC DOUBLE 805- 825 L=750 NBR
724212831	MC DOUBLE 835- 855 L=600 NBR PN3
724212832	MC DOUBLE 835- 855 L=750 NBR PN3
724212833	MC DOUBLE 88- 110 L=400 NBR 316
724212834	MC DOUBLE 457- 477 L=400 NBR 316
724212900	MC DOUBLE 100-120 L=200 NBR
724212901	MC DOUBLE 100-120 L=300 NBR
724212902	MC DOUBLE 165-185 L=200 NBR
724212903	MC DOUBLE 165-185 L=300 NBR

724212904	MC DOUBLE 176-196 L=200 NBR
724212905	MC DOUBLE 176-196 L=250 NBR
724212906	MC DOUBLE 282-302 L=300 NBR
724212907	MC DOUBLE 305-325 L=400 NBR
724212908	MC DOUBLE 305-325 L=600 NBR
724212909	MC DOUBLE 305-325 L=800 NBR
724212910	MC DOUBLE 337-358 L=300 NBR
724212911	MC DOUBLE 337-358 L=400 NBR
724212912	MC DOUBLE 337-358 L=500 NBR
724212913	MC DOUBLE 396-420 L=300 NBR
724212914	MC DOUBLE 396-420 L=400 NBR
724212915	MC DOUBLE 410-430 L=300 NBR
724212916	MC DOUBLE 410-430 L=400 NBR
724212917	MC DOUBLE 450-470 L=300 NBR
724212918	MC DOUBLE 450-470 L=400 NBR
724212919	MC DOUBLE 505-525 L=500 NBR
724212920	MC DOUBLE 510-530 L=400 NBR
724212921	MC DOUBLE 570-590 L=400 NBR
724212922	MC DOUBLE 505-525 L=400 NBR
724212923	MC DOUBLE 176- 196 L=300 NBR
724212924	MC DOUBLE 307- 327 L=400 NBR
724212925	MC DOUBLE 450-470 L=500 NBR
724213060	MC TRIPLE 267- 297 L=300 NBR PN10
724213061	MC TRIPLE 267- 297 L=400 NBR PN10
724213076	MC TRIPLE 300- 330 L=300 NBR PN10
724213077	MC TRIPLE 300- 330 L=400 NBR PN10
724213092	MC TRIPLE 323- 353 L=300 NBR PN10
724213093	MC TRIPLE 323- 353 L=400 NBR PN10
724213101	MC TRIPLE 340-370 L=300 NBR
724213108	MC TRIPLE 352- 382 L=300 NBR PN10
724213109	MC TRIPLE 352- 382 L=400 NBR PN10
724213110	MC TRIPLE 352- 382 L=500 NBR PN10
724213124	MC TRIPLE 378- 408 L=300 NBR PN10
724213125	MC TRIPLE 378- 408 L=400 NBR PN10
724213126	MC TRIPLE 378- 408 L=500 NBR PN10
724213133	MC TRIPLE 390- 420 L=500 NBR
724213140	MC TRIPLE 402- 432 L=300 NBR PN10
724213141	MC TRIPLE 402- 432 L=400 NBR PN10
724213142	MC TRIPLE 402- 432 L=500 NBR PN10
724213156	MC TRIPLE 429- 459 L=300 NBR PN10
724213157	MC TRIPLE 429- 459 L=400 NBR PN10
724213158	MC TRIPLE 429- 459 L=500 NBR PN10
724213161	MC TRIPLE 440-470 L=400 NBR
724213172	MC TRIPLE 456- 486 L=300 NBR PN10
724213173	MC TRIPLE 456- 486 L=400 NBR PN10
724213174	MC TRIPLE 456- 486 L=500 NBR PN10
724213175	MC TRIPLE 456- 486 L=600 NBR PN10
724213188	MC TRIPLE 490- 520 L=300 NBR PN10

724213189	MC TRIPLE 490- 520 L=400 NBR PN10
724213190	MC TRIPLE 490- 520 L=500 NBR PN10
724213191	MC TRIPLE 490- 520 L=600 NBR PN10
724213204	MC TRIPLE 520- 550 L=300 NBR PN10
724213205	MC TRIPLE 520- 550 L=400 NBR
724213206	MC TRIPLE 520- 550 L=500 NBR PN10
724213207	MC TRIPLE 520- 550 L=600 NBR PN10
724213221	MC TRIPLE 532- 562 L=400 NBR
724213222	MC TRIPLE 532- 562 L=500 NBR PN6
724213223	MC TRIPLE 532- 562 L=600 NBR PN6
724213237	MC TRIPLE 545- 575 L=400 NBR
724213238	MC TRIPLE 545- 575 L=500 NBR PN6
724213239	MC TRIPLE 545- 575 L=600 NBR PN6
724213240	MC TRIPLE 545- 575 L=750 NBR PN6
724213253	MC TRIPLE 570- 600 L=400 NBR PN6
724213254	MC TRIPLE 570- 600 L=500 NBR PN6
724213255	MC TRIPLE 570- 600 L=600 NBR PN6
724213256	MC TRIPLE 570- 600 L=750 NBR PN6
724213270	MC TRIPLE 586- 616 L=500 NBR PN6
724213271	MC TRIPLE 586- 616 L=600 NBR PN6
724213272	MC TRIPLE 586- 616 L=750 NBR PN6
724213286	MC TRIPLE 609- 639 L=500 NBR PN6
724213287	MC TRIPLE 609- 639 L=600 NBR
724213288	MC TRIPLE 609- 639 L=750 NBR PN6
724213302	MC TRIPLE 615- 645 L=500 NBR PN6
724213303	MC TRIPLE 615- 645 L=600 NBR
724213304	MC TRIPLE 615- 645 L=750 NBR PN6
724213318	MC TRIPLE 633- 663 L=500 NBR PN4
724213319	MC TRIPLE 633- 663 L=600 NBR
724213320	MC TRIPLE 633- 663 L=750 NBR PN4
724213334	MC TRIPLE 640- 670 L=500 NBR PN4
724213335	MC TRIPLE 640- 670 L=600 NBR PN4
724213336	MC TRIPLE 640- 670 L=750 NBR PN4
724213350	MC TRIPLE 654- 684 L=500 NBR PN4
724213351	MC TRIPLE 654- 684 L=600 NBR PN4
724213352	MC TRIPLE 654- 684 L=750 NBR PN4
724213367	MC TRIPLE 670- 700 L=600 NBR PN4
724213368	MC TRIPLE 670- 700 L=750 NBR PN4
724213383	MC TRIPLE 702- 732 L=600 NBR PN4
724213384	MC TRIPLE 702- 732 L=750 NBR PN4
724213399	MC TRIPLE 711- 741 L=600 NBR PN4
724213400	MC TRIPLE 711- 741 L=750 NBR PN4
724213415	MC TRIPLE 729- 759 L=600 NBR PN4
724213416	MC TRIPLE 729- 759 L=750 NBR PN4
724213431	MC TRIPLE 747- 777 L=600 NBR PN4
724213432	MC TRIPLE 747- 777 L=750 NBR PN4
724213447	MC TRIPLE 780- 815 L=600 NBR PN4
724213448	MC TRIPLE 780- 815 L=750 NBR PN4

724213463	MC TRIPLE 800- 830 L=600 NBR PN4
724213464	MC TRIPLE 800- 830 L=750 NBR PN4
724213479	MC TRIPLE 813- 843 L=600 NBR PN3
724213480	MC TRIPLE 813- 843 L=750 NBR PN3
724213495	MC TRIPLE 830- 860 L=600 NBR PN3
724213496	MC TRIPLE 830- 860 L=750 NBR PN3
724213511	MC TRIPLE 852- 882 L=600 NBR PN2
724213512	MC TRIPLE 852- 882 L=750 NBR PN2
724213527	MC TRIPLE 864- 894 L=600 NBR PN2
724213528	MC TRIPLE 864- 894 L=750 NBR PN2
724213543	MC TRIPLE 900- 930 L=600 NBR PN2
724213544	MC TRIPLE 900- 930 L=750 NBR PN2
724213559	MC TRIPLE 925- 955 L=600 NBR PN2
724213560	MC TRIPLE 925- 955 L=750 NBR PN2
724213575	MC TRIPLE 945- 975 L=600 NBR PN2
724213576	MC TRIPLE 945- 975 L=750 NBR PN2
724213591	MC TRIPLE 970-1000 L=600 NBR PN2
724213592	MC TRIPLE 970-1000 L=750 NBR PN2
709305280	MJ3007+ 625M x 625M A4 NBR PN10
709305281	MJ3007+ 675M x 675M A4 NBR PN10
709305282	MJ3007+ 700M x 700M A4 NBR PN10
709305283	MJ3007+ 800M x 800M A4 NBR PN10
709305284	MJ3007+ 825M x 825M A4 NBR PN10
709305680	MJ3007+ 625M x 625M A4 EPDM PN10
709305681	MJ3007+ 675M x 675M A4 EPDM PN10
709305682	MJ3007+ 700M x 700M A4 EPDM PN10
709305683	MJ3007+ 800M x 800M A4 EPDM PN10
709305684	MJ3007+ 825M x 825M A4 EPDM PN10
709455295	MJ3157+ 625M x 600FL A4 NBR PN10/PN16
709455296	MJ3157+ 675M x 600FL A4 NBR PN10/PN16
709355282	MJ3057+ 700M x 700FL A4 NBR PN10/PN16
709355283	MJ3057+ 800M x 800FL A4 NBR PN10/PN16
709455297	MJ3157+ 825M x 800FL A4 NBR PN10/PN16
709455695	MJ3157+ 625M x 600FL A4 EPDM PN10/PN16
709455696	MJ3157+ 675M x 600FL A4 EPDM PN10/PN16
709355682	MJ3057+ 700M x 700FL A4 EPDM PN10/PN16
709355683	MJ3057+ 800M x 800FL A4 EPDM PN10/PN16
709455697	MJ3157+ 825M x 800FL A4 EPDM PN10/PN16
709405298	MJ3107+ 625M x 600M A4 NBR PN10
709405299	MJ3107+ 675M x 600M A4 NBR PN10
709405300	MJ3107+ 700M x 600M A4 NBR PN10
709405698	MJ3107+ 625M x 600M A4 EPDM PN10
709405699	MJ3107+ 675M x 600M A4 EPDM PN10
709405700	MJ3107+ 700M x 600M A4 EPDM PN10



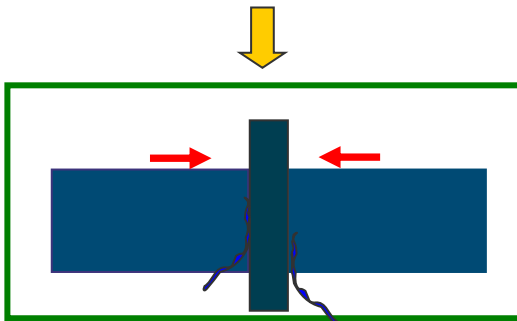
- Manuales de instalación de **accesorios PE y MULTI/JOINT**

Se relacionan los manuales de instalación de MULTI/JOINT y accesorios PE: termofusión y electrofusión, para más información sobre alguna referencia en específico, por favor comunicarse con el fabricante y/o distribuidor autorizado.



1. REFRENTADO

El refrentado es necesario para dejar totalmente rectas y planas las caras de la tubería y así garantizar un contacto pleno con la plancha en los tiempos de calentamiento.

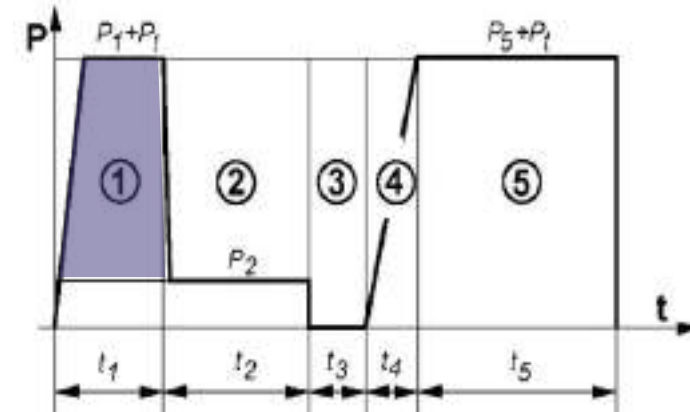
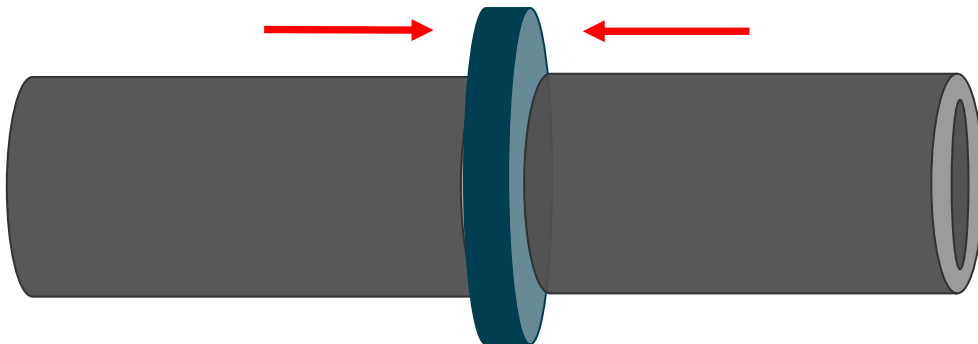


INTERNAL



1. ACERCAMIENTO Y PRECALENTAMIENTO

Se debe realizar un precalentamiento a los extremos de la tubería aplicando la presión de fusión indicada en la table de parámetros mas la presión mínima de arrastre, esto con el fin de garantizar el contacto pleno de la plancha con las caras de las tuberías.

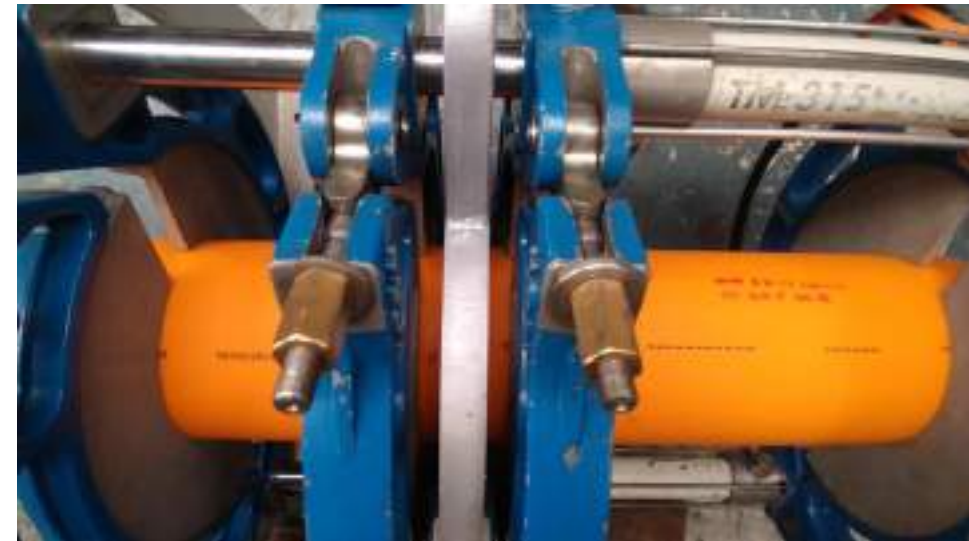
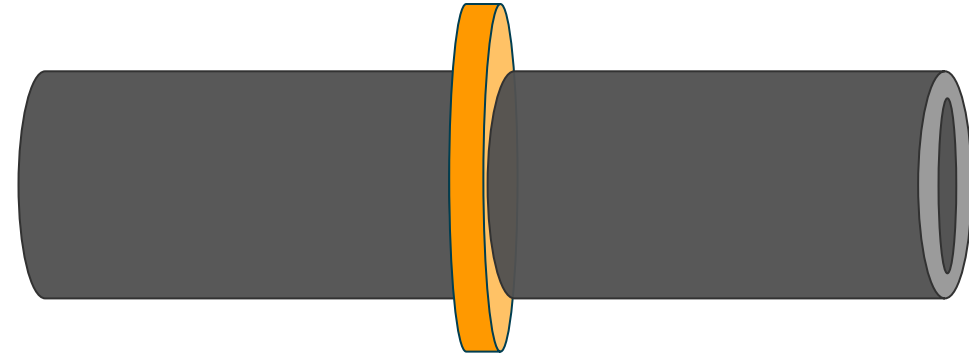
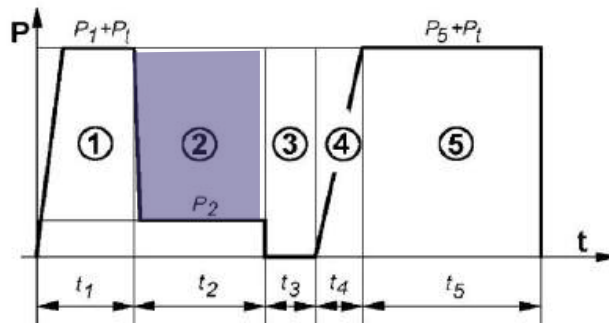




2. FASE DE CALENTAMIENTO

Culminado el tiempo de precalentamiento, se disminuye la presión y se deja la presión mínima de arrastre, durante el tiempo de calentamiento estipulado en la tabla de parámetros.

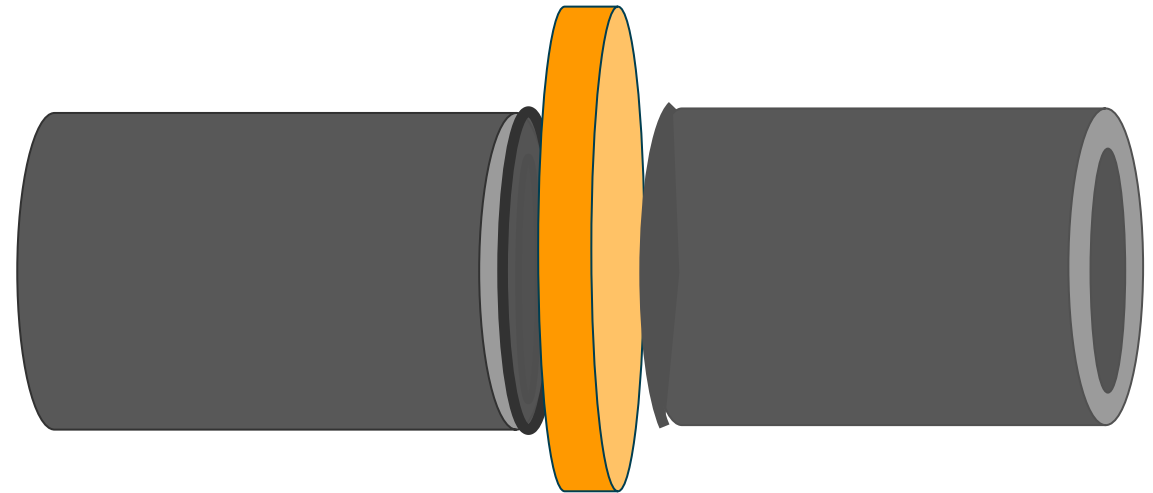
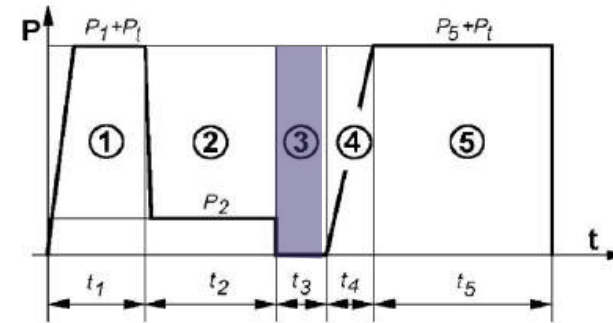
En este tiempo los extremos de las tuberías llegan a temperatura de fusión y queda lista para proceder con la fusión.





3. REMOCION DE LA PLACA DE CALENTAMIENTO

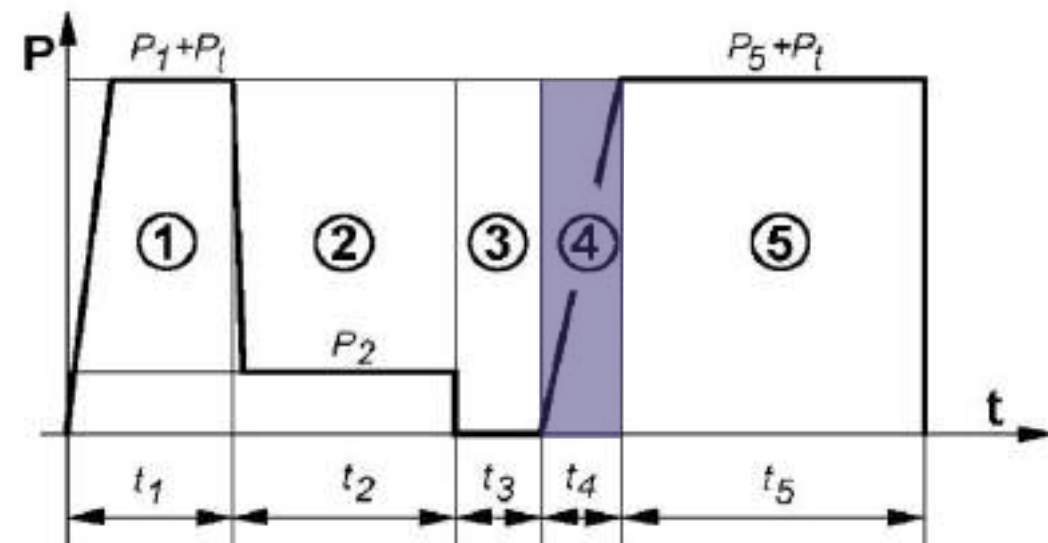
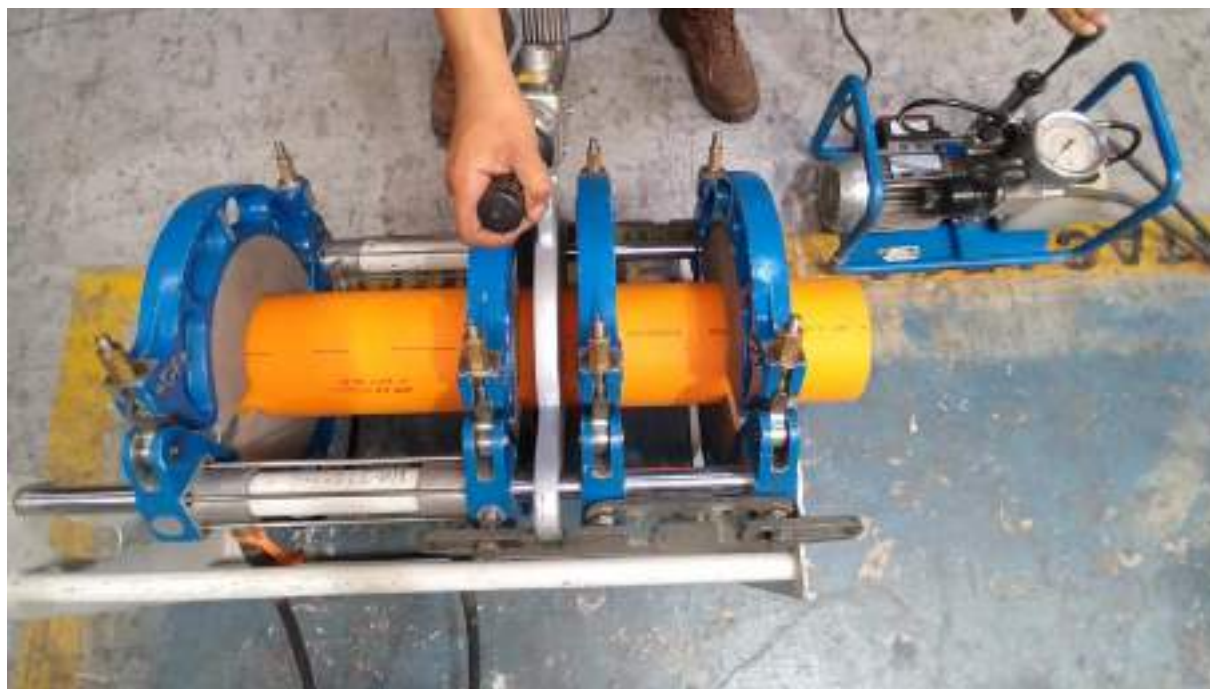
Se abre el carro alineador y se retira la plancha de calentamiento, debe verificar que no haya imperfecciones o contaminación en las caras de la tubería que se encuentran en punto de fusión.





4. PRESION DE SOLDADURA

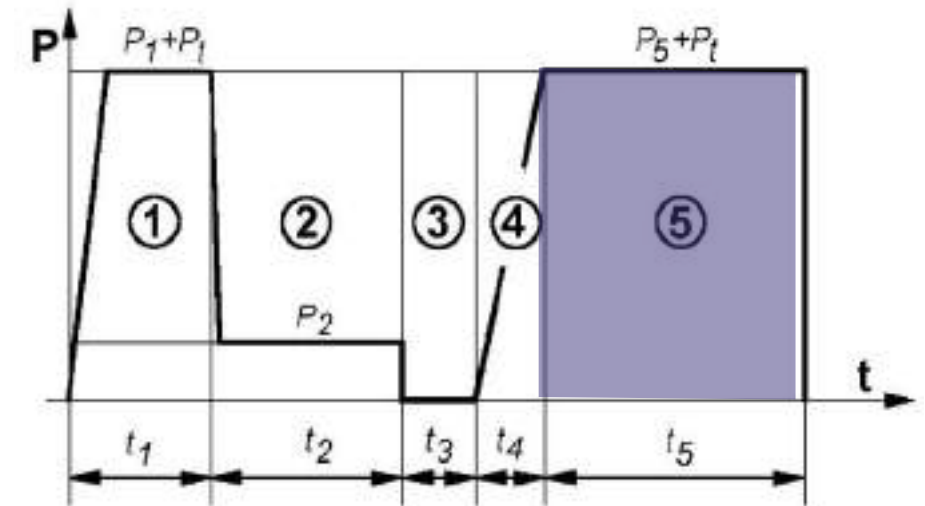
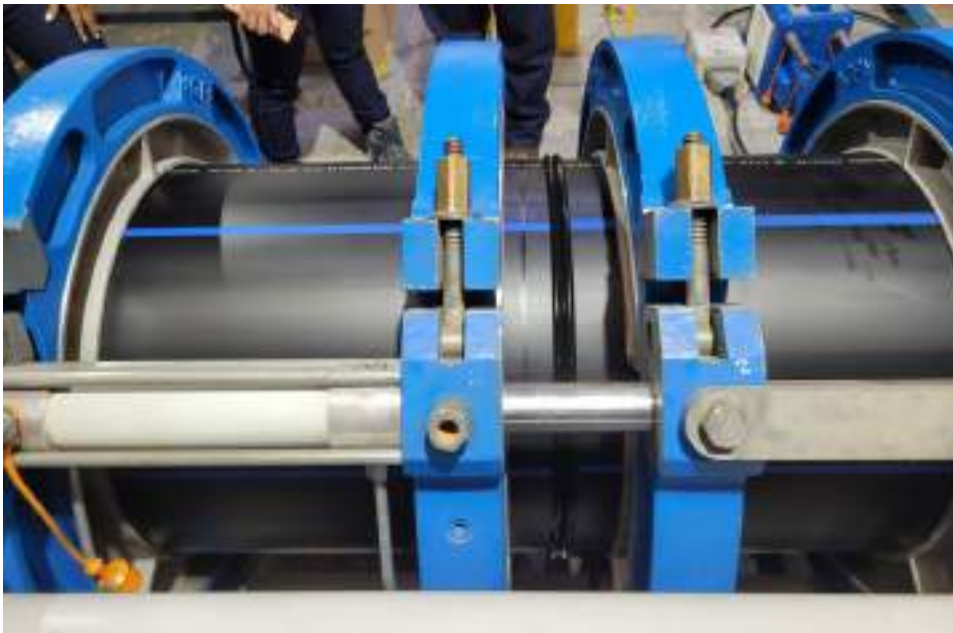
Se procede a realizar la fusión de la tubería utilizando la presión mínima de arrastre mas la presión indicada en la tabla de parámetros. Se cierra hasta que se forme un cordón de soldadura doble y totalmente homogéneo.





5. FASE DE SOLDADURA

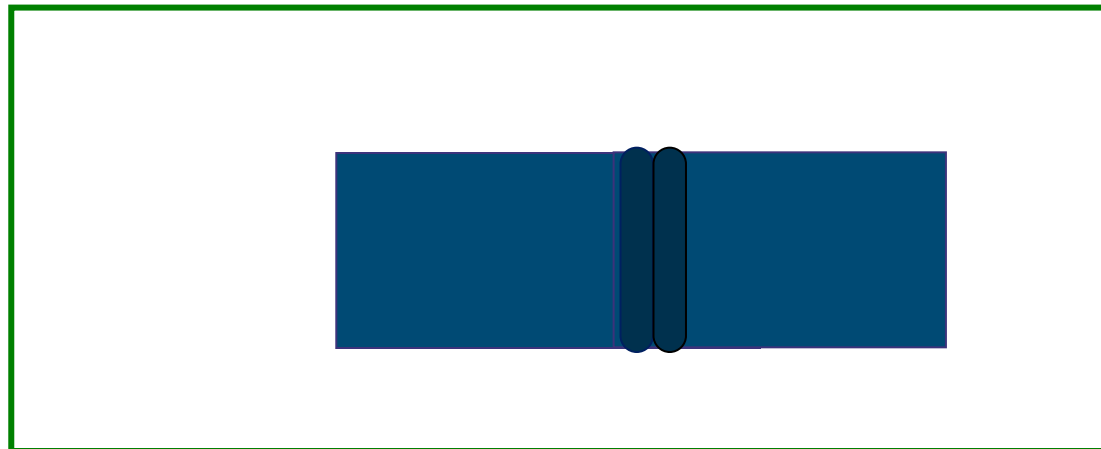
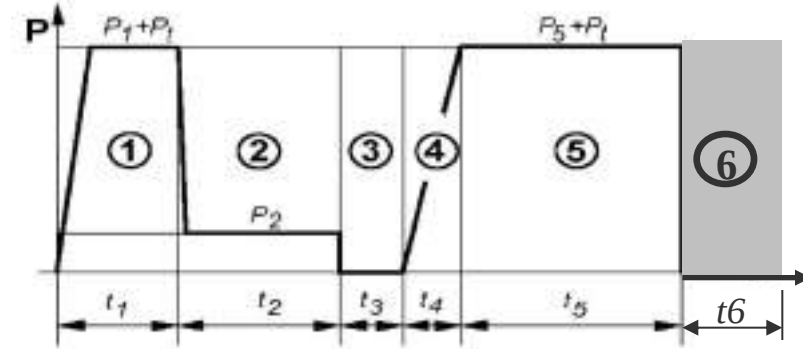
Durante este tiempo de calentamiento se espera únicamente a que termine el tiempo de enfriamiento estipulado en la tabla de parámetros. Durante este ciclo se completa totalmente la susión de los materiales. Es importante verificar en este punto que el equipo debe sostener la presión estipulada en la tabla





6. FASE DE ENFRIAMIENTO SIN PRESION

El tiempo de calentamiento sin presión se puede realizar con la tubería fuera del equipo, se debe tener en cuenta que durante este periodo equivalente al tiempo T5 no se debe someter a esfuerzos bruscos, ensayos de tracción o pruebas de hermeticidad



**MANTENER LA
UNION SIN
SOMETERLA A
ESFUERZOS**



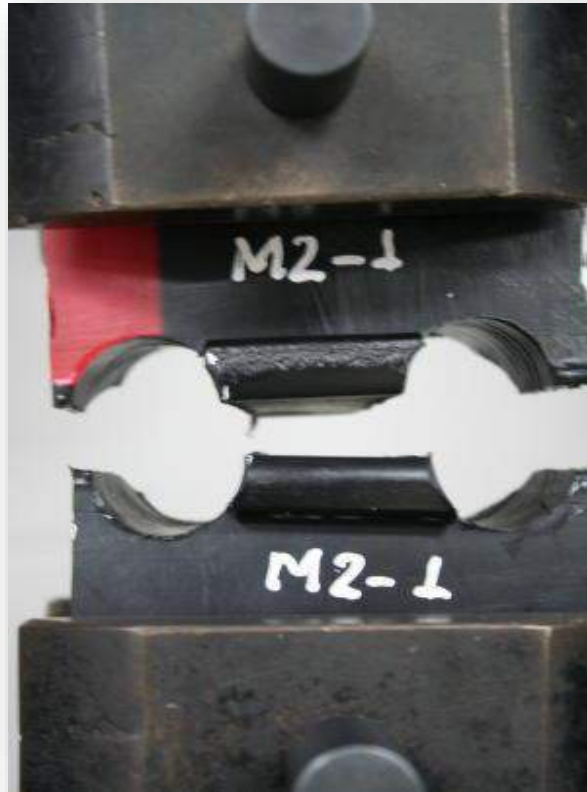
ENSAYO DE Tensión ISO 13953



Falla dúctil / Termofusión apta



ENSAYO DE TENSIÓN ISO 13953



Falla Frágil / Termofusión no apta.



TABLA DE PARÁMETROS – EQUIPO ECOS 315

Se debe tener presente que cada tabla de parámetros varia según equipo de termofusión (Marca, rango y tipo de fusión).

TM 315 ECO 5
Sección Cilindros: 510 mm²
NORMA ISO 21307: 2017-12
Single LOW-PRESSURE
PE HD

			TEMPERATURA	FASE 1		FASE 2		FASE 3	FASE 4	FASE 5	
				PRESION PRECALENTAMIENTO	ANCHO DE REBORDE	PPRESION CALENTAMIENTO	TIEMPO CALENTAMIENTO	TIEMPO APERTURA Y CIERRE	TIEMPO ALCANCE DE PRESION	PRESION DE FUSION	TIEMPO DE ENFRIAMIENTO CON PRESION
DIAMETRO D	ESPESOR E	RDE o SOR	°C	P1 bar	B1 mm	P2 bar	t2 Segundos	t3 Segundos	t4 Segundos	P5 bar	t5 Minutos
mm	mm	D/E									
90	2.3	41	225+/-10	2	0.7	Ø hasta Arrastre	31	4	6	2	5
90	2.8	33	225+/-10	3	0.8	Ø hasta Arrastre	38	4	6	3	6
90	3.5	26	225+/-10	3	0.9	Ø hasta Arrastre	47	4	6	3	7
90	4.3	21	225+/-10	4	0.9	Ø hasta Arrastre	58	4	6	4	7
90	5.1	17.6	225+/-10	5	1.0	Ø hasta Arrastre	69	5	6	5	8
90	5.4	17	225+/-10	5	1.0	Ø hasta Arrastre	73	5	6	5	8
90	6.7	13.6	225+/-10	6	1.2	Ø hasta Arrastre	90	5	6	6	10
90	8.2	11	225+/-10	7	1.3	Ø hasta Arrastre	111	5	6	7	13
90	10.1	8	225+/-10	8	1.5	Ø hasta Arrastre	136	5	6	8	13
90	12.3	7.4	225+/-10	10	1.7	Ø hasta Arrastre	166	5	6	10	15
90	15.0	6	225+/-10	12	2.0	Ø hasta Arrastre	203	6	6	12	18
110	2.7	41	225+/-10	3	0.8	Ø hasta Arrastre	36	4	6	3	6
110	3.4	33	225+/-10	4	0.8	Ø hasta Arrastre	46	4	6	4	6
110	4.2	26	225+/-10	5	0.9	Ø hasta Arrastre	57	4	6	5	7
110	5.3	21	225+/-10	6	1.0	Ø hasta Arrastre	72	5	6	6	8
110	6.3	17.6	225+/-10	7	1.1	Ø hasta Arrastre	85	5	6	7	9
110	6.6	17	225+/-10	7	1.2	Ø hasta Arrastre	88	5	6	7	10
110	8.1	13.6	225+/-10	9	1.3	Ø hasta Arrastre	109	5	6	9	13
110	10.0	11	225+/-10	10	1.5	Ø hasta Arrastre	135	5	6	10	13
110	12.3	9	225+/-10	13	1.7	Ø hasta Arrastre	166	5	6	13	15
110	15.1	7.4	225+/-10	15	2.0	Ø hasta Arrastre	204	6	6	15	18
110	18.3	6	225+/-10	18	2.3	Ø hasta Arrastre	247	6	6	18	21

Pasos para la preparación de la fusión

- Los extremos de la tubería deben presentar un corte recto
- Limpieza apropiada de la zona de fusión
- Marcado de la zona de raspado
- Raspado de la zona de fusión
- Retiro de material raspado
- Marque en la tubería la profundidad de inserción del accesorio
- Montaje del accesorio (ejm: Silleta, Unión)





Limpieza apropiada de la zona de fusión



Remueva una delgada capa de tubería,
con un raspador de rotación



Limpieza de la zona de fusion marcada

Elementos para una buena limpieza



Papel tipo toalla

El papel de limpieza debe ser:

- Nuevo, absorbente
- No tinturado o coloreado

Tambien puede usar un trapo limpio que no bote motas, el cual No puede ser usado varias veces



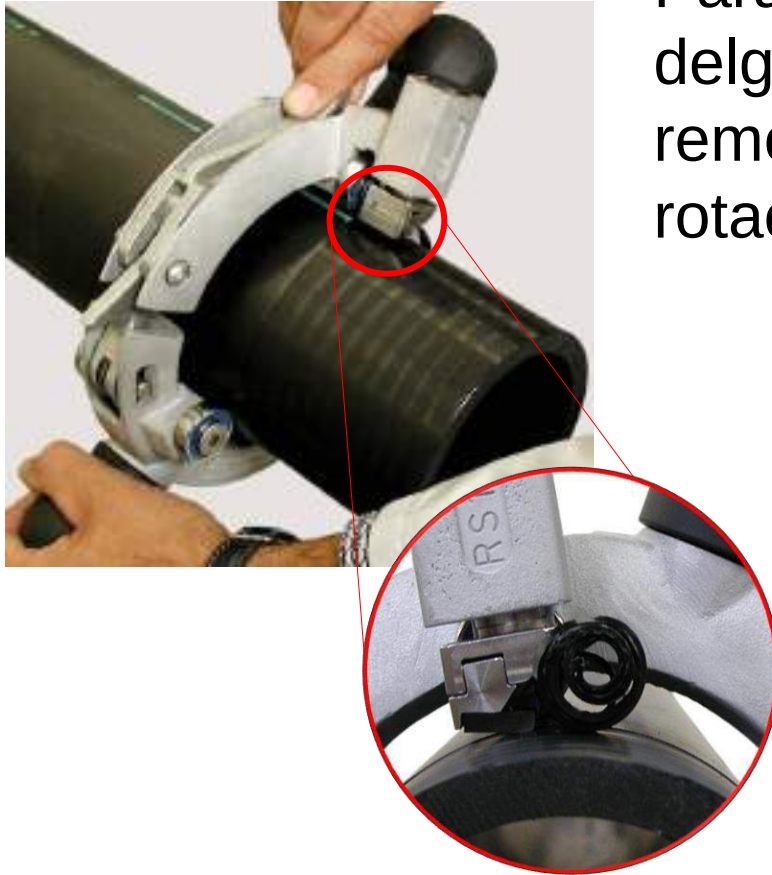
Limpiador

Puede ser tipo Tangit especial para PE o Alcohol Isopropilico Superior al 90%



Asegurese que el alcohol se haya evaporado totalmente, antes de realizar el montaje de los accesorios.

Raspado de tuberías de PE



Para una buena calidad de fusion, una delgada capa de tubería debe ser removida utilizando un raspador de rotación.



$$\Delta S_{\min} = 0,20 \text{ mm}$$

$\Delta s =$ Reducción de espesor de pared

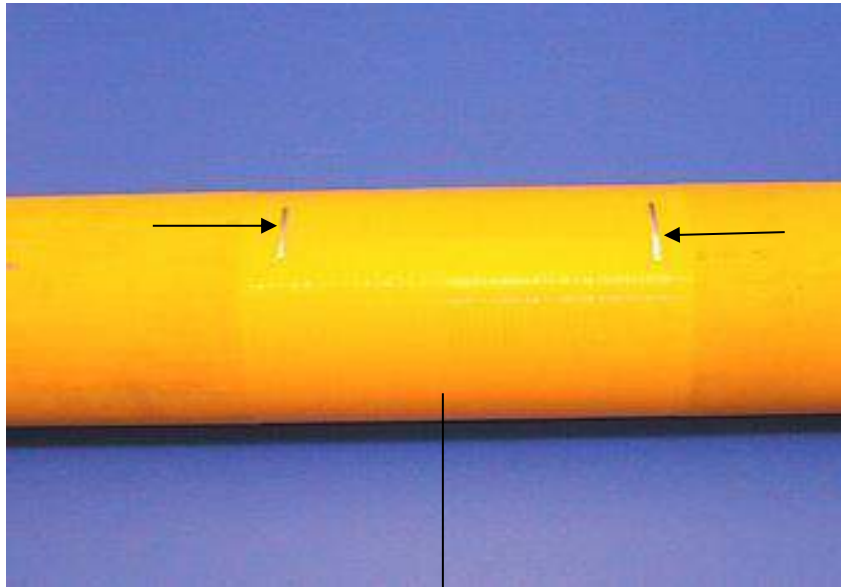
$\varnothing 32 - 63 \text{ mm}$	$\Delta s_{\max} = 0,25 \text{ mm}$
$\varnothing \geq 75 \text{ mm}$	$\Delta s_{\max} = 0,30 \text{ mm}$

Herramientas Correctas

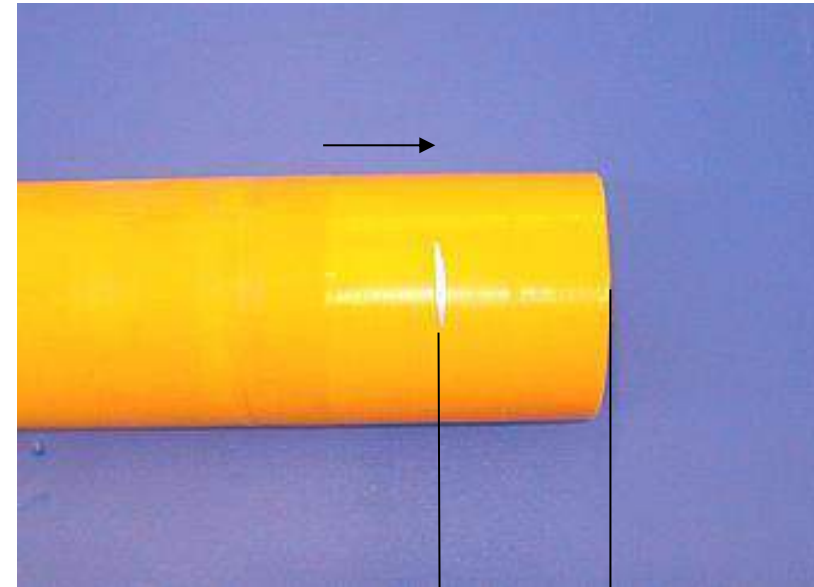
+GF+



Marque la profundidad de inserción del accesorio o la posición de la silleta (de ser necesario)



**Posición de la silleta
(solo para silletas)**



**Profundidad de Inserción
del accesorio**

Marque después de la limpieza

La importancia de Medir la inserción del accesorio +GF+



Es muy importante saber cuál va a hacer el area de contacto



Herramientas Correctas



Herramientas Correctas



https://youtu.be/PE_Cutter1200



Proceso de Fusion

Procedimiento Electrofusión



220V/110V

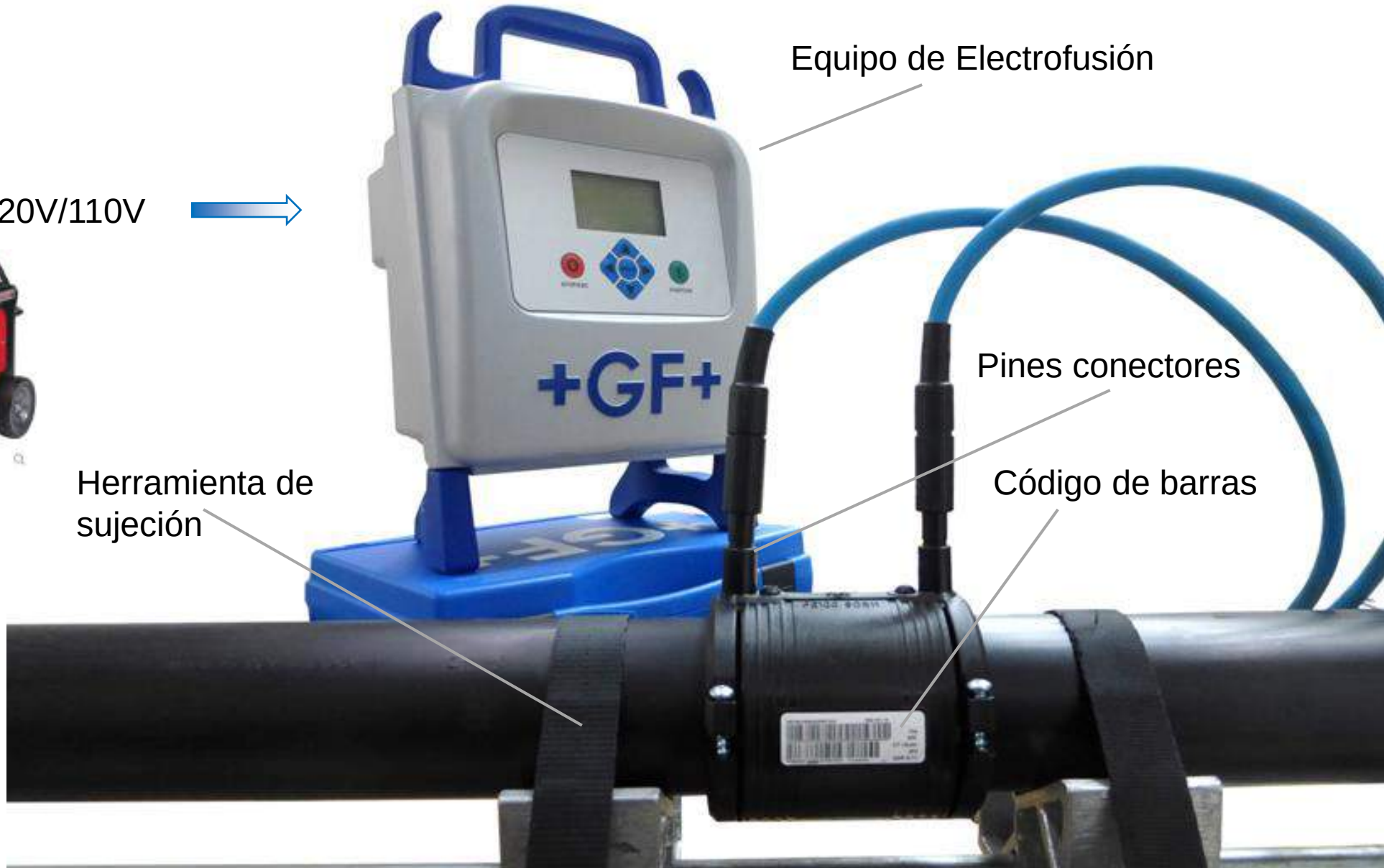


Herramienta de sujeción

Equipo de Electrofusión

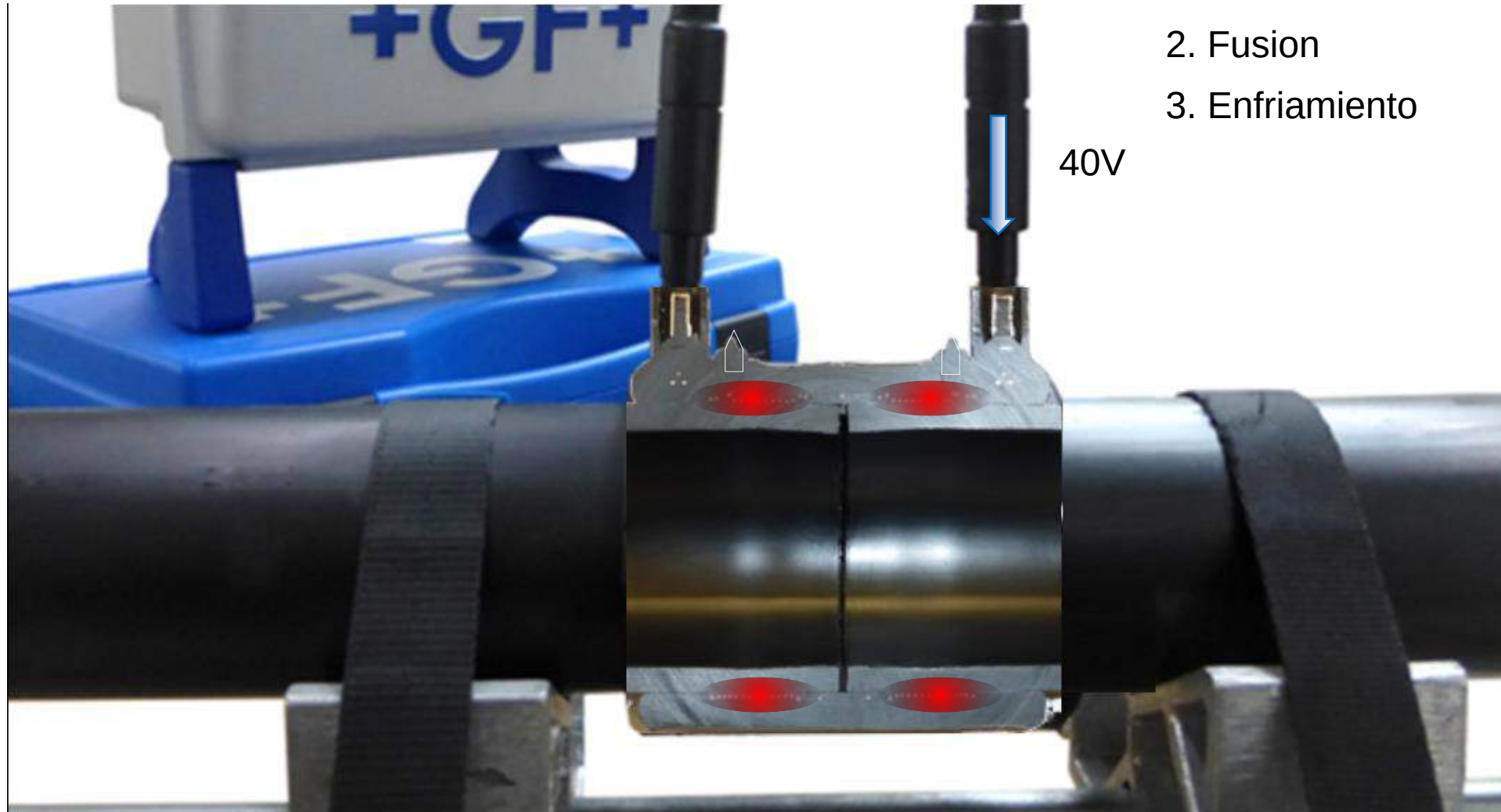
Pines conectores

Código de barras



Proceso de Fusión

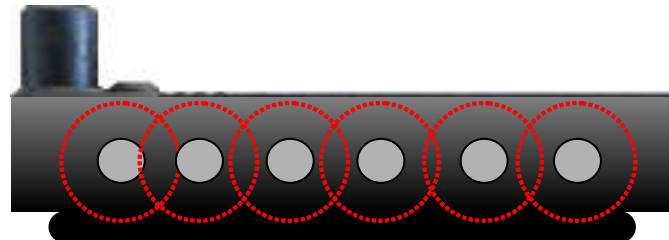
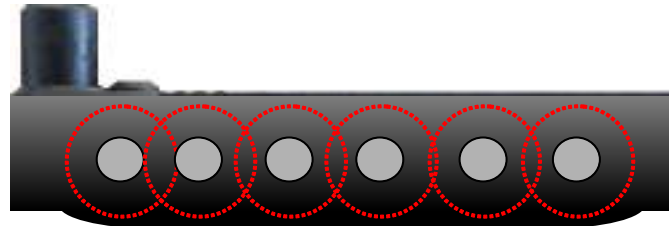
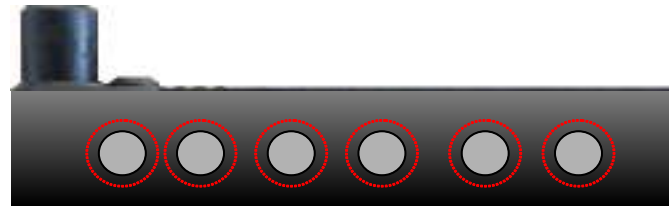
1. Calentamiento
2. Fusion
3. Enfriamiento



Accesorio

Espacio

Tubería



1. Energización del accesorio

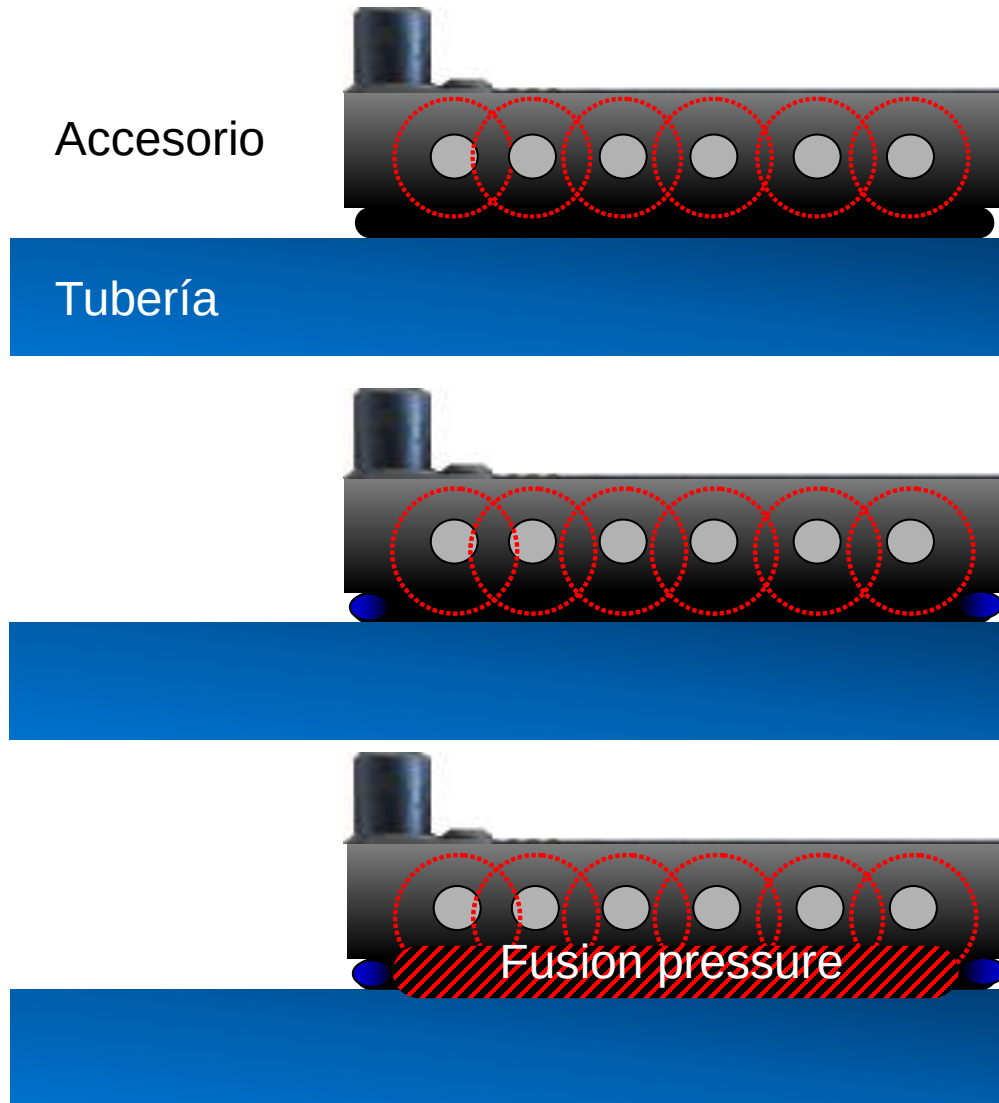
- Equipo MSA conectado
- Botón de «START» presionado
- La corriente fluye y por resistencia eléctrica calienta el alambre de cobre

2. Expansión del Material (PE)

- Calentamiento hasta aprox. 200° C
- Plastificación del PE
- Expansión Térmica del PE

3. Proceso de «cierre» del Espacio

- Expansión del flujo de masa fundido
- «cierre» del espacio



4. Transferencia Térmica

- Transferencia de calor del accesorio a la tubería
- Calentamiento del espesor de pared de la tubería

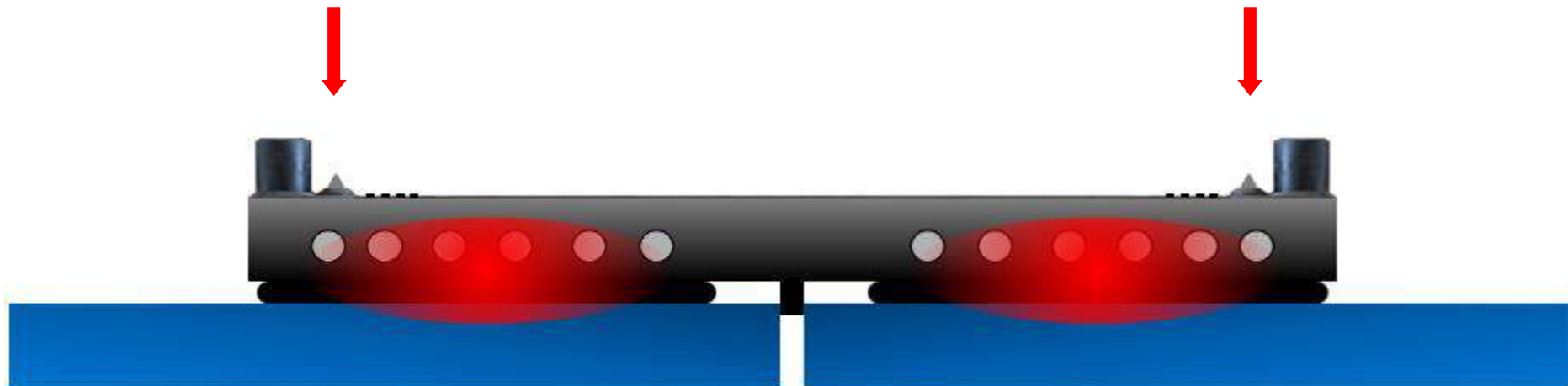
5. Enfriamiento zona externa

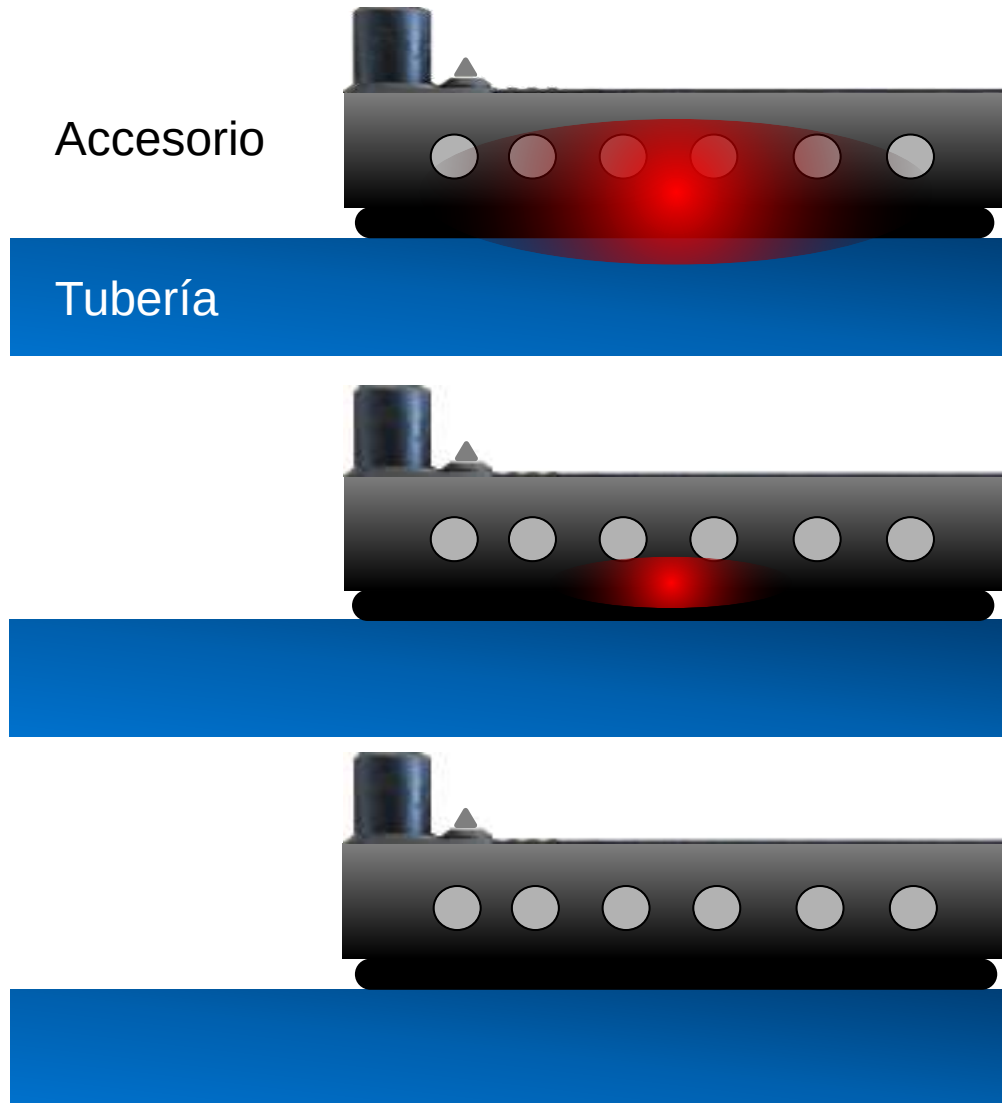
- Aumento de calor del material de la tubería
- Fusión con la tubería
- Enfriamiento exterior de la zona de fusión
- Incrustación

6. Presión de fusión

- La expansión del material genera la presión de fusión
- Fusión=Enlace molecular=Unión monolítica

La salida de los testigos de fusión, indica que la presión de fusión se ha alcanzado, sin embargo no garantiza necesariamente una buena calidad de fusión.





7. Detener la energización

- Detener el tiempo de fusión

8. Proceso de enfriamiento

- Enfriamiento del material fundido
- Solidificación de la zona exterior hacia la zona interior
- El enfriamiento de la zona de fusión, genera reducción de volumen

9. Detener el tiempo de enfriamiento

- Enfriamiento simétrico de la zona de fusión
- El material fundido en la zona media, es el último en solidificarse

User manual MULTI/JOINT® 3000 Plus DN50 - DN400

Georg Fischer Waga N.V.

+GF+

MULTI/JOINT® 3000 Plus DN50-DN400

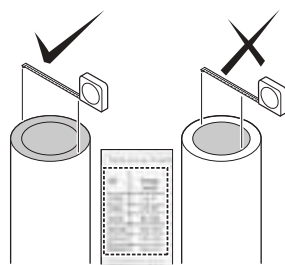


User Manual	GB
Montageanleitung	D
Montagehandleiding	NL
Manuel d'instruction	F
Brukermanual	NO
Användarmanual	SE
Montagevejledning	DK
Käyttömanuaali	FIN
Manual de instalacion	ES
Manual de instalação	PT
Manuale d'uso	IT
Manualul utilizatorului	RO
Návod k montáži	CZ
Εγχειρίδιο χρήσης	GR
Szerelési utasítás	HU
Руководство по установке	RUS
Instrukcja Obsługi	PL

UM/MJ/DN50-DN400/02-22

01

CHECK TABLE IF CHOSEN FITTING MATCHES PIPE OD.



DN	Range (mm)	DN	Range (mm)
DN50	46-71	DN200	192-232
DN65	63-90	DN225	230-268
DN80	84-105	DN250	267-310
DN100	104-132	DN300	315-356
DN125	132-155	DN350	352-393
DN150	154-192	DN400	392-433

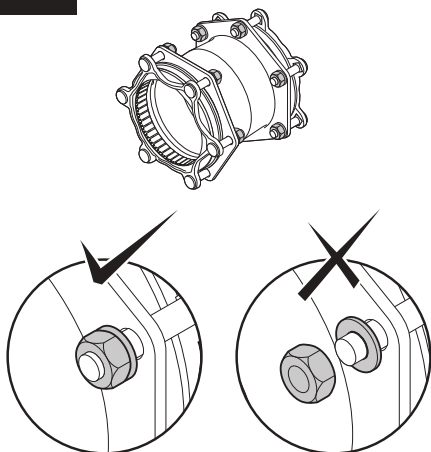
D	Die Rohraussendurchmesser überprüfen und mit der Tabelle vergleichen.
NL	Kies de juiste koppeling m.b.v. de tabel.
F	Vérifiez sur le tableau si le raccord couvre bien le diamètre extérieur du tube.
NO	Sjekk med tabell at koblingen stemmer overens med utvendig diameter rør.
SE	Kontrollera om vald rördel stämmer mot rørets ytterdiameter.
DK	Kontroller med tabellen om den valgte kobling passer til rørdiameteren.
FIN	Tarkista taulukosta jos valitut asennukset sopivat putkelle QD.
PT	Ver na tabela se os acessórios estão de acordo com o diâmetro exterior dos tubos.
ES	Ver tabla anexa para unir distintos diámetros exteriores.

IT	Controllare sulla tabella se il giunto è idoneo al d.e. del tubo.
GR	Με βάση το πίνακα μεγεθών, επιβεβαιώστε ότι ο σύνδεσμος είναι κατάλληλος για τη συγκεκριμένη διάμετρο αγωγού στον οποίο πρόκειται να τοποθετηθεί.
CZ	V tabulce zkontrolovat použitelnost tvarovky v daném rozsahu průměru.
HU	Ellenőrizze, hogy a kiválasztott idom megfelel-e a cső külső átmérőjéhez.
RO	Se verifica in tabel daca fittingul ales corespunde Dext al tevii.
PL	Sprawdź w tabeli czy łącznik pasuje do zewnętrznej średnicy rury.
RUS	Проверить по таблице совместимость фитинга с трубой.

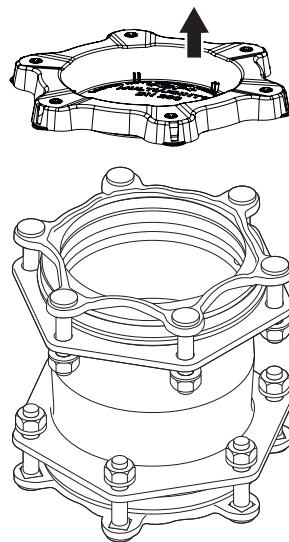
UM/MJ/DN50-DN400/02-22

02

DO NOT REMOVE OR GREASE BOLTS.



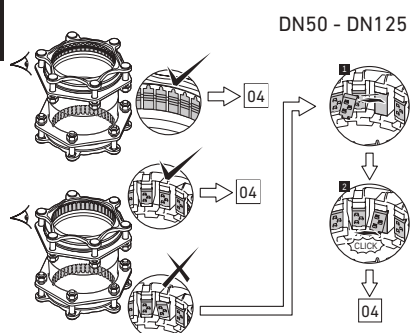
- D Schrauben nicht entfernen und nicht fetten.
- NL Bouten niet verwijderen of invetten.
- F Ne pas enlever et/ou graisser les vis.
- IT Non rimuovere e non ingrassare le viti.



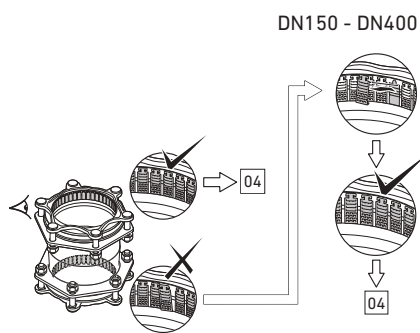
UM/M/J/DN50-DN400/02-22

03

CHECK IF 'FIKERS' (METAL GRIPPERS) POSITION IS CORRECT.



- D Sicherstellen, dass alle Fikser richtig positioniert sind.
- NL Controleer de juiste positie van de "Fikers".
- F Assurez-vous que les "Fikers" (les mors métalliques) sont correctement positionnés.
- NO Kontrollert at "Fikserne" er i riktig posisjon.
- SE Kontrollera om "Fikers" position är korrekt.
- DK Kontrollert om "Fikernes" placering er korrekt.
- FIN Tarkista "Fikseri", että asento on oikein.
- PT Ver se a posição dos "Fikers" é correto.

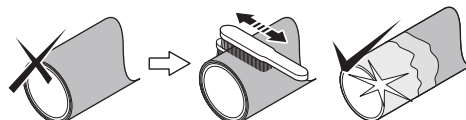
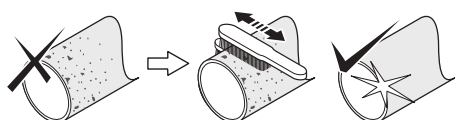


- ES Revise si los "Fikers" se encuentran en la posición correcta.
- IT Controllare gli inserti antisfilo "Fikers" sono OK.
- GR Ελέγξτε αν τα εξαρτήματα αγκύρωσης που διαθέτει ο σύνδεσμος "Fikers" έχουν αγκυρώσει σωστά πάνω στον αγωγό.
- CZ Zkontrolovat správnou polohu fixerů.
- HU Ellenőrizze, hogy a "Fikser"-ek megfelelő helyzetben vannak-e.
- RO Se verifica dacă poziția elementelor de fixare "Fikers" este corectă.
- PL Sprawdzić poprawność ułożenia blaszek.
- RUS Убедиться в правильности установки "Fikers" (металлических фиксаторов).

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04

REMOVE ALL RUST, DIRT, BURRS, DAMAGES AND ALL FINISHING LAYERS FROM THE PIPE. INSTALL ON MEDIUM CARRYING PIPE MATERIAL ONLY.



D Von der drucktragenden Rohroberfläche allen Rost, Grat, Schmutz, Schäden und alle Beschichtungen entfernen.

NL Verwijder alle roest, vuil, bramen, beschadigingen en buislagen. Monteer alleen op de mediumvoerende buis.

F Éliminez la rouille, la saleté, les bourrelets de soudures, les défauts de surface et toutes les couches de finition du tube. Assemblez seulement sur le matériau principal du tube.

NO Fjern all rust, løs overflate samt skader på materialet og overflatebehandling.

SE Avlägsna all rost, smuts, grader och eventuell ytbehandling från röret. Montera endast på mediabärande rörmaterial.

DK Fjern al rust, snavs, spåner, beskadigelser og alle belægninger på røret. Monter kun på selve det mediebærende rør.

FIN Poista kaikki ruoste, lika, taite, vauriot ja kasaumat putkesta. Asenna ainoastaan keskivahalle putkelle.

PT Remover oxidação, sugeira, rebarbas, e revestimento do tubo.

HU Távolítsd el minden rozsdát, szennyeződést, sorját, sérüléseket és minden fedőréteget a csőről. Csak közvetlenül a közeg szállító csőanyagra helyezze fel az idomot.

ES Retirar toda la suciedad, polvo, daños y etiquetas de la tubería. Montar solamente entre tubos.

IT Rimuovere sporcizia, polvere, intagli e gli strati superficiali della tubazione. Il montaggio deve avvenire sullo strato a contatto del fluido trasportato.

GR Καθαρίστε όλα τα οξειδωμένα τμήματα, τις επικαθίσεις, τις παραμορφώσεις και τις υλικές βλάβες της επιφάνειας του αγωγού καθώς και τις επιστρώσεις του αγωγού μέχρι τον αγωγό μεταφοράς του υλικού.

CZ Odstranit všechny nečistoty, rez, otěpy a všechny dodatečné vrstvy z povrchu trubky. Montovat pouze na trubky určené pro transport médií.

RO Indepartati praful, creșturile, murdăria, defectele precum și toate straturile de acoperire de pe teava. Se montează doar pe materialul conductei.

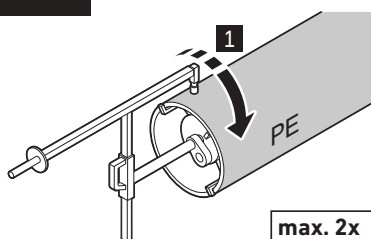
PL Usunąć wszelkiego rodzaju uszkodzenia, zabrudzenia, zadrapania, rdzę i warstwy na długości rury pokrytej przez łącznik.

RUS Удалить любые загрязнения, ржавчину, задиры и наплывы, а так же покрытия с поверхности трубы. Устанавливать только на основной материал трубы.

UM/M/J/DN50-DN400/02-22

05

ONLY GAS: USE AN (BY GEORG FISCHER) APPROVED SCRAPING TOOL. INSTALL ON MEDIUM CARRYING PIPE MATERIAL ONLY.



GAS / GAZ

D Für PE-Rohre ist ein Georg Fischer Schälgerät zu verwenden.

NL Gebruik een door Georg Fischer goedgekeurde schiller.

F Utilisez un grattoir mécanique approuvé par Georg Fischer.

NO Bruk skrapeverktøy godkjent av Georg Fischer.

SE Använd ett (av Georg Fischer) godkänt skrapverktyg.

DK Brug et (af Georg Fischer) godkendt skræbeværktøj.

FIN Käytä (Georg Fischer) hyväksymää karhennus työkalua.

PT Usar uma ferramenta (Georg Fischer) adequada.

ES Utilizar un rascador circular Georg Fischer.

IT Utilizzare in raschiatore approvato da Georg Fischer.

GR Αφαιρέστε όλες τις οξειδώσεις, τις ακαθαρσίες, τις παραμορφώσεις, τις αλλοιώσεις υλικού και τυχόν επιστρώσεις από την επιφάνεια του αγωγού. Αγκυρώστε αποκλειστικά επί επιφάνειας του αγωγού μεταφοράς του ρευστού.

CZ Použit škrabku (schválenou Georg Fischer).

HU Használgjon (GF által jóváhagyott) hántoló szerszámot.

RO Se va utiliza un dispozitiv de raschetat recomandat (de GF).

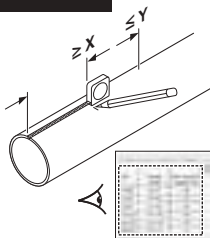
PL Użyj skrobaka (Georg Fischer) do przygotowania rury.

RUS Использовать только разрешенный (компанией Georg Fischer) инструмент для зачистки.

UM/M/J/DN50-DN400/02-22

06

CHECK TABLE FOR MIN - MAX INSERTION DEPTH.



DN	X Min. insertion depth (mm)	Y Max. insertion depth (mm)
DN50	84	95
DN65	84	100
DN80	84	100
DN100	90	105
DN125	90	115
DN150	110	130

DN	X Min. insertion depth (mm)	Y Max. insertion depth (mm)
DN200	110	145
DN225	125	170
DN250	130	180
DN300	130	185
DN350	130	185
DN400	135	190



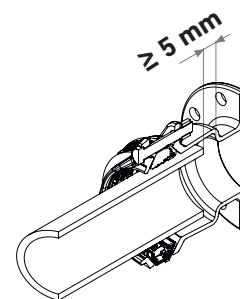
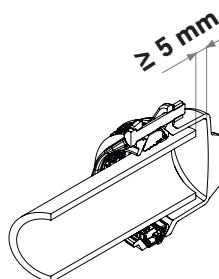
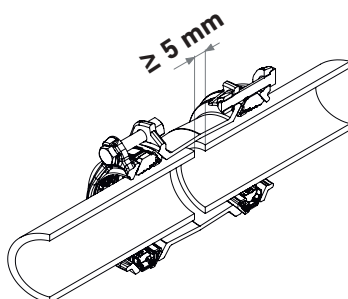
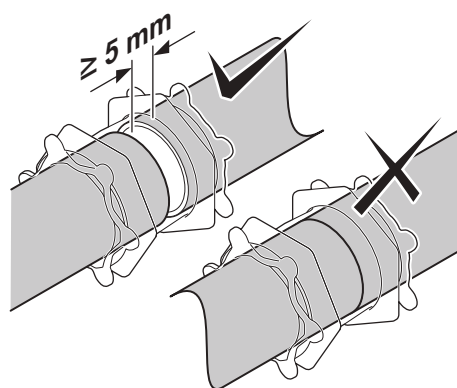
* For maximum joint gap information; see our technical manual

- D** Aus der Tabelle die Einstecktiefe entnehmen.
- NL** Zie de tabel voor de minimale insteekdiepte.
- F** Vérifiez sur le tableau la profondeur d'insertion correcte du tube.
- NO** Sjekk med tabell for korrekt innstikksdybde.
- SE** Kontrollera i tabellen korrekt insticksdjup.
- DK** Kontroller med tabellen for korrekt indstikksdybde.
- FIN** Tarkista taulukosta oikea asennus syvyys.
- PT** Ver na tabela a profundidade de inserção do tubo no acessório.

- ES** Ver tabla para la profundidad de inserción mínima.
- IT** Controllare sulla tabella la profondità di inserimento.
- GR** Συμβουλευτείτε τον πίνακα για την υπόδειξη του κατάλληλου βάθους εισαγωγής του συνδέσμου στον αγωγό.
- CZ** Zkontrolovat v tabulce správnou hloubku zasunutí.
- HU** Ellenőrizze a táblázatot a megfelelő betolási mélység érdekében.
- RO** Se verifica in tabel adancimea corecta de inserare.
- PL** Korzystać z tabeli określi głębokość nasunięcia łącznika.
- RUS** Проверить по таблице значение глубины ввода трубы (X).

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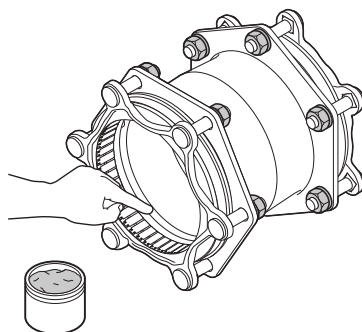
07



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08

APPLY SUITABLE GREASE ONLY IN GAS APPLICATIONS.



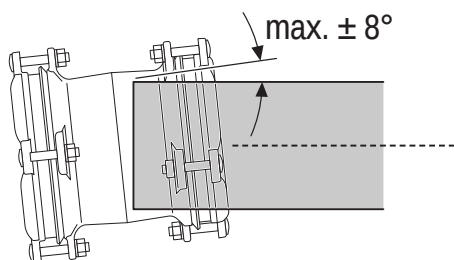
GAS / GAZ

D	Für die Gasanwendung den Dichtungsbereich ausreichend mit Gleitmittel versehen.	ES	Aplicar la grasa correspondiente a la junta.
NL	Smeer de afdichting in met een geschikt glijmiddel.	IT	Applicare lubrificante opportuno.
F	Lubrifiez le bague de joint avec une graisse appropriée.	GR	Τοποθετήστε κατάλληλη ποσότητα λιπαντικής ουσίας στα μηχανικά μέρη του συνδέσμου.
NO	Bruk egnet glidemiddel.	CZ	Aplikovat vhodné mazivo.
SE	Applicera lämpligt smörjmedel.	HU	Használjon megfelelő kenőanyagot.
DK	Påfør egnet glidemiddel.	RO	Se aplica lubrifiant.
FIN	Lisää soveltuva rasva.	PL	Natóż warstwę smaru.
PT	Aplicar lubrificante adequado (nunca de origem mineral).	RUS	Использовать только подходящую смазку.

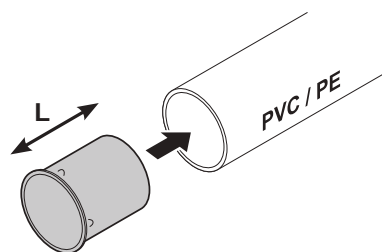
UM/MJ/DN50-DN400/02-22

09

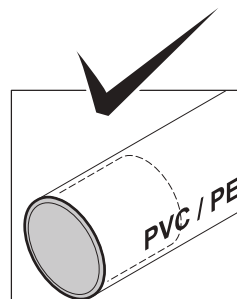
NOMINAL ANGULARITY.*



* Based on the middle of the range.



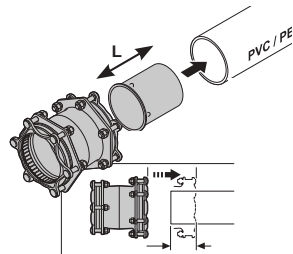
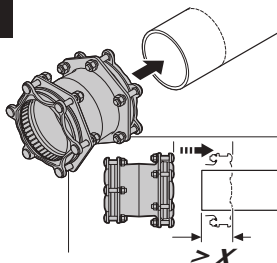
(insert approved by Georg Fischer Waga N.V.)



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10

**MAKE SURE 'FIKERS' (METAL GRIPPERS) ARE IN CORRECT POSITION!
FOR PE/PVC SEE WARNING ⚠.**



PVC / PE



$\geq x + 2,5 \text{ mm} \leq L$

D Sicherstellen, dass alle Fikser richtig positioniert sind.

NL Houd de "Fikser" in de juiste positie! Bij gebruik steunbus PE/PVC: let op! Max. insteekdiepte $\leq$ lengte steunbus (L).

F Assurez-vous que les "Fikser" (les mors métalliques) sont correctement positionnés.

NO Ved strekkfast løsning sjekk at Fikserne er på plass.

SE Säkerställ att "Fikser" (metal gripbleck) är korrekt positionerade.

DK Vær opmærksom på om "Fikserne" (metal-griberne) sidder korrekt!

FIN Varmista "Fikserit" (metalli puristimet) ovat paikallaan.

PT Garantir que os "Fikser" ("grampos" de metal) estão na posição correta.

ES Asegurarse de utilizar los Fikser adecuados en la posición adecuada.

IT Controllare che le placche antisfilo metalliche siano fissate.

GR Ελέγξτε αν τα εξαρτήματα αγκύρωσης που διαθέτει ο σύνδεσμος "Fikser" είναι σε κατάλληλη θέση έτσι ώστε να εφαρμόσουν και να αγκυρώσουν το σύνδεσμο στον αγωγό κατά τη σύσφιξη.

CZ Zkontrolujte správnou pozici fixerů (základné díly).

HU Győződjön meg róla, hogy a "Fikser"-ek (fém húzásbiztosítók) megfelelő helyzetben vannak-e!

RO Se verifica dacă elementele metalice de fixare "Fikser" sunt în poziția corectă!

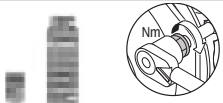
PL Upewnij się czy blaszki "Fikser" są odpowiednio ułożone.

RUS Убедиться в правильности установки "Fikser" (металлических фиксаторов).

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11^a

CHECK TABLE FOR INSTALLATION TORQUE AND PRESSURE RATING.

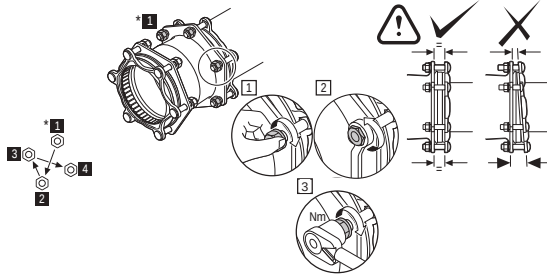
		RESTRAINT				NON RESTRAINT			
MULTI/JOINT® 3000 Plus with Fikser				MULTI/JOINT® 3000 Plus without Fikser					
(S)St, CU, DCI, GCI, AC*, GRP*, PVC, PE, PEX, PP-B, PP-H, ABS (* NO guarantee as quality varies!)				(S)St, CU, DCI, GCI, AC, GRP, PVC, PE, PEX, PP-B, PP-H, ABS					
DN	Torque (Nm)	MOP gas (bar)	PFA water (bar)	DN	Torque (Nm)	MOP gas (bar)	PFA water (16 bar)	Torque (Nm)	PFA water (25 bar)
DN50	30	8	16	DN50	30	8	16	30	25
DN65	40			DN65	40				
DN80	60			DN80	60				
DN100	100			DN100	100				
DN125				DN125					
DN150				DN150					
DN200	120			DN200	140				
DN225	140			DN225					
DN250				DN250					
DN300				120	DN300				
DN350	140			DN350					
DN400				DN400					

**** MOP 5 BAR GAS / PFA 10 BAR WATER FOR PLASTIC PIPE MATERIALS**

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11^b

TIGHTEN THE BOLTS WITH THE CORRECT TORQUE.



MULTI/JOINT® 3000 Plus
without Fikser



MULTI/JOINT® 3000 Plus
with Fikser



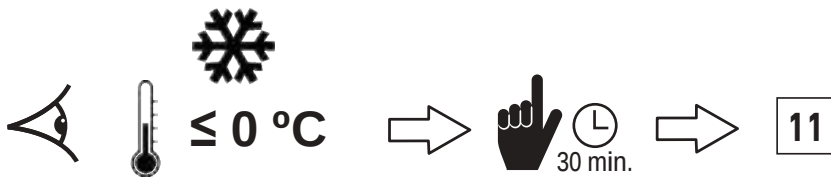
DN50-125 DN150-400

D	Der Tabelle das richtige Schraubendrehmoment entnehmen. Die Verwendung eines Drehmomentschlüssels ist zwingend erforderlich.	ES	Ver tabla para el par de apriete.
NL	Zie de tabel voor het juiste aandraaimoment.	IT	Controllare la tabella per il serraggio.
F	Vérifiez dans les tableaux le couple de serrage à respecter.	GR	Συμβουλευτείτε τον πίνακα για την επιλογή της κατάλληλης στρεπτικής ροπής που θα πρέπει να εφαρμοστεί στον σύνδεσμο, κατά την διαδικασία της σύσφιξης του στον αγωγό.
NO	Mutrene strammes i kryss, da man skal holde samme avstand mellom koblingshus og trykkflens(gland). Etterstram med en momentnøkkel iht. Momenttabell.	CZ	Zkontrolujte v tabulce správný utahovací moment.
SE	Kontrollera i tabell korrekt åtdragningsmoment.	HU	Ellenőrizze a táblázatot a megfelelő nyomaték érdekében.
DK	Det rigtige tilspændingsmoment findes i tabellen.	RO	Se verifica in tabel valoarea momentului de stangere.
FIN	Tarkista taulukosta oikea vääntömomentti.	PL	Odczytaj z tabeli odpowiedni moment dokręcania śrub.
PT	Ver na tabela a força de aperto.	RUS	Проверить по таблице соответствующий момент затяжки болтов.

UM/M/J/DN50-DN400/02-22

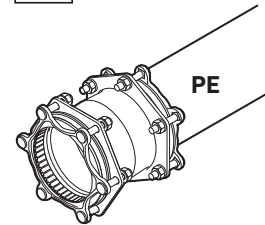
12

≤ 0 °C ONLY ON PE PIPE UNDER FREEZING CONDITIONS, APPLY TORQUE (PRESCRIBED UNDER 11) ONE MORE TIME AFTER 30 MINUTES.



PE

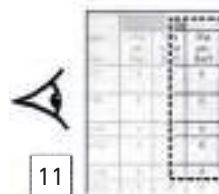
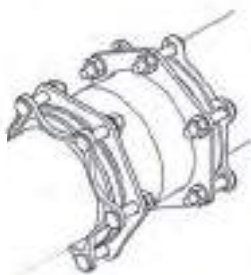
D	Nur für Einsatz auf PE Rohren bei Temperaturen ≤ 0, das unter 11 ermittelte Schraubendrehmoment nach 30 Minuten noch einmal aufbringen.
NL	Alleen bij montage op PE bij temperaturen onder 0, het (onder 11) voorgeschreven draaimoment na 30 minuten nog eenmaal aanbrengen.
F	Répetez l'étape 11 après 30 minutes <u>seulement</u> sur des tubes en PE en temps glacial.
HU	≤ 0 °C fagyponat alatti hőmérsékleten, csak PE csöveken, 30 perc elteltével újra nyomatékra kell húzni a 11. oldalon leírtak szerint.



UM/M/J/DN50-DN400/02-22

13

CONDUCT A PRESSURE TEST.



$$P_{\max} \leq 1,5 \times PFA$$

D Dichtheitsprüfung durchführen.

NL Voer een druktest uit.

F Procédez à un essai de pression.

NO Utfør tryktest på hele installasjonen, med minimum det aktuelle driftstrykk før anlegget dekkes til. Tryktestingen må ikke overstige 1,5 x PFA (max arbeidstrykk) i henhold til tabellen.

SE Utför tryckprovning.

DK Gennemfør en trykprøvning.

FIN Aseta painetesti.

PT Efetuar teste de pressão.

ES Realizar un test de presión.

IT Fare test in pressione.

GR Για τον έλεγχο της στεγανότητας της σύνδεσης πραγματοποιείτε δοκιμή υπό πίεση στον αγωγό για τυχόν διαρροές.

CZ Provést tlakovou zkoušku.

HU Hajtsón végre nyomáspróbat.

RO Se realizeaza un test de presiune.

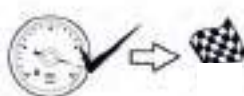
PL Przeprowadź próbę ciśnieniową.

RUS Провести опрессовку.

UM/MJ/DN425-DN600/02-22

14

TEST OK → INSTALLATION FINISHED. IF PRESSURE TEST FAILS: REINSTALL FITTING.



Disassembly
& Reuse

D Falls die Dichtheitsprüfung eine Undichtheit aufzeigt, den Montagevorgang wiederholen - nach wiederholter, erfolgreicher Dichtheitsprüfung ist die Montage abgeschlossen.

NL Druktest negatief → opnieuw installeren. Test OK → installatie gereed.

F Mauvais résultat d'essai, réinstallez le raccord. Essai réussi, l'installation est terminée.

NO Trykkprøving negativ → Re-installer kobling. Test OK → installasjon er utført.

SE Tryckprovning falerar → Ommontera rördelen. Test OK → installation avslutad.

DK Trykprøvning negativ → Re-installer kobling. Test OK → installationen er udført.

FIN Paine testi hylätty → asenna uudelleen. Testi OK → asennus suoritettu.

PT Teste de pressão falhou → Voltar a instalar o acessório → Teste OK → Instalação terminada.

ES Test de Presion Fallo → Reinstalar el accesorio TEST OK → Instalacion completada

IT Se test negativo → Reinstallare. Se test positivo → Installazione finita.

GR Σε περίπτωση που η εγκατάσταση αποτύχει και υπάρχει διαρροή στη σύνδεση → Επανα-εγκαταστήσετε το σύνδεσμο. Σε περίπτωση που η δεν παρατηρηθεί διαρροή στη σύνδεση → η εγκατάσταση του συνδέσμου επί του αγωγού έχει ολοκληρωθεί με επιτυχία.

CZ Tlaková zkouška není OK → tvarovku znovu namontovat. Tlaková zkouška OK → konec instalace.

HU Nyomás próba sikertelen → végezze el újra az idom felhelyezését. Próba sikeres → felhelyezés befejezve.

RO Daca testul de presiune esueaza → Se reinstaleaza fittingul. Daca rezultatul testului este OK → Instalare terminata.

PL Nieudana próba → Ponowny montaż łącznika. Udana próba → montaż zakończony.

RUS Опрессовка не пройдена → Установить фитинг снова. Опрессовка пройдена → Установка завершена.

UM/MJ/DN425-DN600/02-22

User manual MULTI/JOINT® 3000 Plus DN425 - DN600

Georg Fischer Waga N.V.

+GF+

MULTI/JOINT® 3000 Plus DN425-DN600

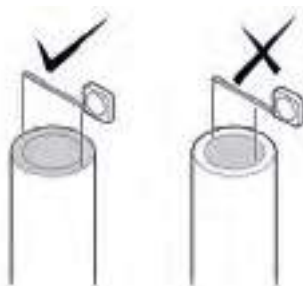


User Manual	GB
Montageanleitung	D
Montagehandleiding	NL
Manuel d'instruction	F
Brukermanual	NO
Användarmanual	SE
Montagevejledning	DK
Käyttömanuaali	FIN
Manual de instalacion	ES
Manual de instalação	PT
Manuale d'uso	IT
Manualul utilizatorului	RO
Návod k montáži	CZ
Εγχειρίδιο χρήσης	GR
Szerelési utasítás	HU
Руководство по установке	RUS
Instrukcja Obsługi	PL

UM/MJ/DN425-DN600/02-22

01

CHECK TABLE IF CHOSEN FITTING MATCHES PIPE OD.



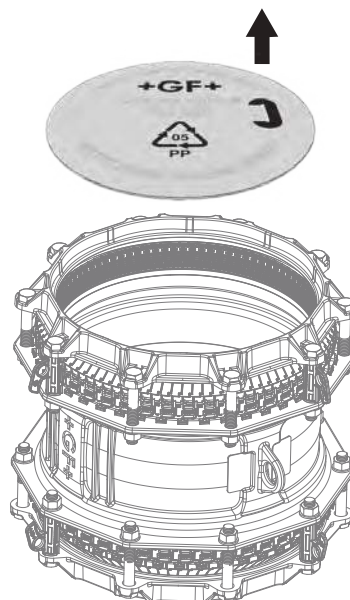
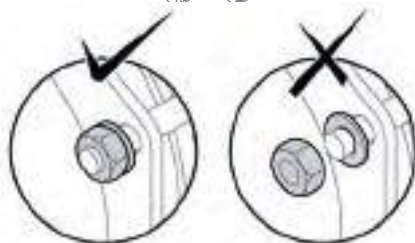
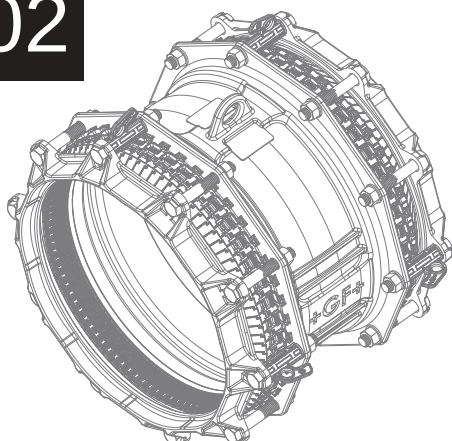
DN	Range (mm)
DN425	432 - 464
DN450	450 - 482
DN475	481 - 513
DN500	500 - 532
DN550	548 - 580
DN600	605 - 637

D	Die Rohraussendurchmesser überprüfen und mit der Tabelle vergleichen.
NL	Kies de juiste koppeling m.b.v. de tabel.
F	Vérifiez sur le tableau si le raccord couvre bien le diamètre extérieur du tube.
NO	Sjekk med tabell at koblingen stemmer overens med utvendig diameter rør.
SE	Kontrollera om vald rördel stämmer mot rørets ytterdiameter.
DK	Kontroller med tabellen om den valgte kobling passer til rørdiameteren.
FIN	Tarkista taulukosta jos valitut asennukset sopivat putkelle QD.
PT	Ver na tabela se os acessórios estão de acordo com o diâmetro exterior dos tubos.
ES	Ver tabla anexa para unir distintos diámetros exteriores.

IT	Controllare sulla tabella se il giunto è idoneo al d.e. del tubo.
GR	Με βάση το πίνακα μεγεθών, επιβεβαιώστε ότι ο σύνδεσμος είναι κατάλληλος για τη συγκεκριμένη διάμετρο αγωγού στον οποίο πρόκειται να τοποθετηθεί.
CZ	V tabulce zkontrolovat použitelnost tvarovky v daném rozsahu průměru.
HU	Ellenőrizze, hogy a kiválasztott idom megfelel-e a cső külső átmérőjéhez.
RO	Se verifica in tabel daca fittingul ales corespunde Dext al tevii.
PL	Sprawdź w tabeli czy łącznik pasuje do zewnętrznej średnicy rury.
RUS	Проверить по таблице совместимость фитинга с трубой.

UM/MJ/DN425-DN600/02-22

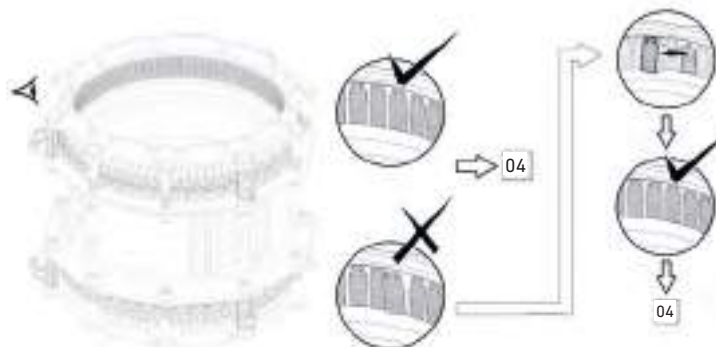
02



UM/M/J/DN425-DN600/02-22

03

CHECK IF "FIKSERS" (METAL GRIPPERS) POSITION IS CORRECT.



DN425-600

D Sicherstellen, dass alle Fikser richtig positioniert sind.

NL Controleer de juiste positie van de "Fiksers".

F Assurez-vous que les "Fiksers" (les mors métalliques) sont correctement positionnés.

NO Kontrollér at "Fikserne" er i riktig posisjon.

SE Kontrollera om "Fiksers" position är korrekt.

DK Kontroller om "Fikernes" placering er korrekt.

FIN Tarkista "Fikseri", että asento on oikein.

PT Ver se a posição dos "Fiksers" é correto.

ES Revise si los "Fiksers" se encuentran en la posición correcta.

IT Controllare gli inserti antisfilo "Fiksers" sono OK.

GR Ελέγξτε αν τα εξαρτήματα αγκύρωσης που διαθέτει ο σύνδεσμος "Fiksers" έχουν αγκυρώσει σωστά πάνω στον αγωγό.

CZ Zkontrolovat správnou polohu fixerů.

HU Ellenőrizze, hogy a "Fikser"-ek megfelelő helyzetben vannak-e.

RO Se verifica dacă poziția elementelor de fixare "Fiksers" este corectă.

PL Sprawdzić poprawność ułożenia blaszek.

RUS Убедиться в правильности установки "Fiksers" (металлических фиксаторов).

UM/M/J/DN425-DN600/02-22

04

REMOVE ALL RUST, DIRT, BURRS AND DAMAGES FROM THE PIPE. INSTALL ON MEDIUM CARRYING PIPE MATERIAL ONLY.



D	Von der drucktragenden Rohroberfläche allen Rost, Grat, Schutz, Schäden und alle Beschichtungen entfernen.
NL	Verwijder alle roest, vuil, bramen, beschadigingen en buislagen. Monteer alleen op de mediumvoerende buis.
F	Éliminez la rouille, la saleté, les bourrelets de soudures, les défauts de surface et toutes les couches de finition du tube. Assemblez seulement sur le matériau principal du tube.
NO	Fjern all rust, løs overflate samt skader på materialet og overflatebehandling.
SE	Avlägsna all rost, smuts, grader och eventuell ytbehandling från røret. Montera endast på mediabärande rörmaterial.
DK	Fjern al rust, snavs, spåner, beskadigelser og alle belægninger på røret. Monter kun på selve det mediebærende rør.
FIN	Poista kaikki ruoste, lika, taite, vauriot ja kasaumat putkesta. Asenna ainoastaan keskivahvalle putkelle.
PT	Remover oxidação, sugeira, rebarbas, e revestimento do tubo.
HU	Távolítsd el minden rozsdát, szennyeződést, sorját, sérüléseket és minden fedőréteget a csőről. Csak közvetlenül a közeg szállító csőanyagra helyezze fel az idomot.

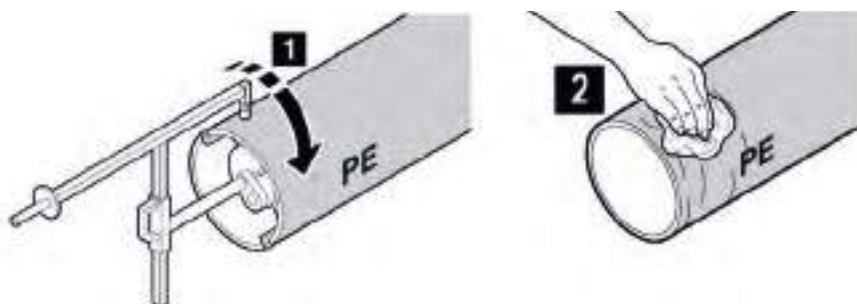
ES	Retirar toda la suciedad, polvo, daños y etiquetas de la tubería. Montar solamente entre tubos.
IT	Rimuovere sporcizia, polvere, intagli e gli strati superficiali della tubazione. Il montaggio deve avvenire sullo strato a contatto del fluido trasportato.
GR	Αφαιρέστε όλες τις οξειδώσεις, τις ακαθαρσίες, τις παραμορφώσεις, τις αλλοιώσεις υλικού και τυχόν επιστρώσεις από την επιφάνεια του αγωγού. Αγκυρώστε αποκλειστικά επί επιφάνειας του αγωγού μεταφοράς του ρευστού.
CZ	Odstranit všechny nečistoty, rez, otřepy a všechny dodatečné vrstvy z povrchu trubky. Montovat pouze na trubky určené pro transport médií.
RO	Indepartati praful, crestaturile, murdaria, defectele precum si toate straturile de acoperire de pe teava. Se monteaza doar pe materialul conductei.
PL	Usun wszelkiego rodzaju uszkodzenia, zabrudzenia, zadrapania, rdzę i warstwy na długości rury pokrytej przez łącznik.
RUS	Удалить любые загрязнения, ржавчину, задиры и наплывы, а так же покрытия с поверхности трубы. Устанавливать только на основной материал трубы.

UM/MJ/DN425-DN600/02-22

05

USE AN (BY GF) APPROVED SCRAPING TOOL.

GAS / GAZ



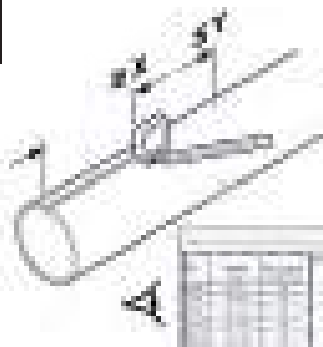
D	Für PE-Rohre ist ein GF Schälgerät zu verwenden.
NL	Gebruik een door GF goedgekeurde schiller.
F	Utilisez un grattoir mécanique approuvé par GF.
NO	Bruk skrapeverktøy godkjent av GF.
SE	Använd ett (av GF) godkänt skrapverktyg.
DK	Brug et (af GF) godkendt skrabeværktøj.
FIN	Käytä (GF) hyväksymää karhennus työkalua.
PT	Usar uma ferramenta (GF) adequada.

ES	Utilizar un rascador circular GF.
IT	Utilizzare in raschiatore approvato da GF.
GR	Για τις εργασίες καθαρισμού και λείανσης χρησιμοποιείστε το κατάλληλο (από την GF) εργαλείο.
CZ	Použit škrabku (schválenou GF).
HU	Használjon (GF által jóváhagyott) hántoló szerszámot.
RO	Se va utiliza un dispozitiv de raschetat recomandat (de GF).
PL	Użyj skrobaka (GF) do przygotowania rury.
RUS	Использовать только разрешенный (компанией GF) инструмент для зачистки.

UM/MJ/DN425-DN600/02-22

06

CHECK TABLE FOR MINIMUM INSERTION DEPTH (X).



DN	X Min. insertion depth [mm]	Y Max. insertion depth [mm]
DN425	160	225
DN450		
DN475		
DN500		
DN550		
DN600	170	235

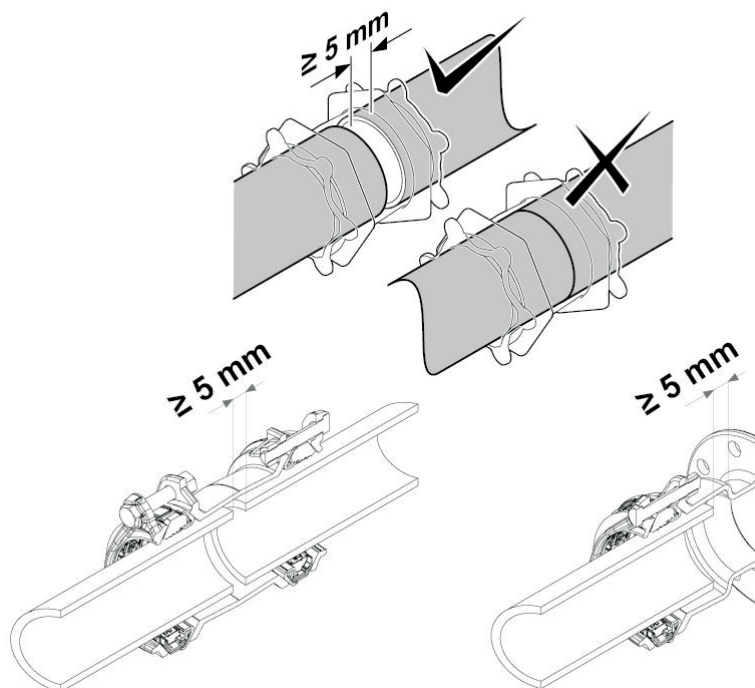
* For maximum joint gap information; see our technical manual.



D	Aus der Tabelle die Einstecktiefe entnehmen (X).	ES	Ver tabla para la profundidad de inserción mínima (X).
NL	Zie de tabel voor de minimale insteekdiepte (X).	IT	Controllare sulla tabella la profondità di inserimento (X).
F	Vérifiez sur le tableau la profondeur d'insertion (X) correcte du tube.	GR	Συμβουλευτείτε τον πίνακα για την υπόδειξη του κατάλληλου βάθους εισαγωγής (X) του συνδέσμου στον αγωγό.
NO	Sjekk med tabell for korrekt instikksdybde (X).	CZ	Zkontrolujte v tabulce správnou hloubku zasunutí (X).
SE	Kontrollera i tabellen korrekt insticksdjup (X).	HU	Ellenőrizze a táblázatot a megfelelő betolási mélység érdekében (X).
DK	Kontroller med tabellen for korrekt indstikksdybde (X).	RO	Se verifica în tabel adâncimea corectă de inserare (X).
FIN	Tarkista taulukosta oikea asennus syvyys (X).	PL	Korzystając z tabeli określ głębokość nasunięcia łącznika (X).
PT	Ver na tabela a profundidade (X) de inserção do tubo no acessório.	RUS	Проверить по таблице значение глубины ввода трубы (X).

UM/M/J/DN425-DN600/02-22

07



UM/M/J/DN425-DN600/02-22

08

APPLY SUITABLE GREASE.



GAS / GAZ

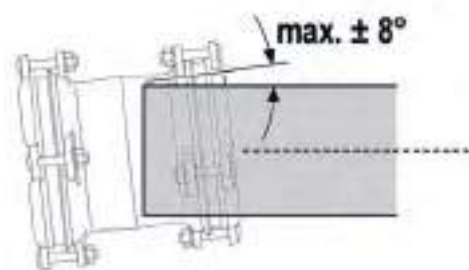
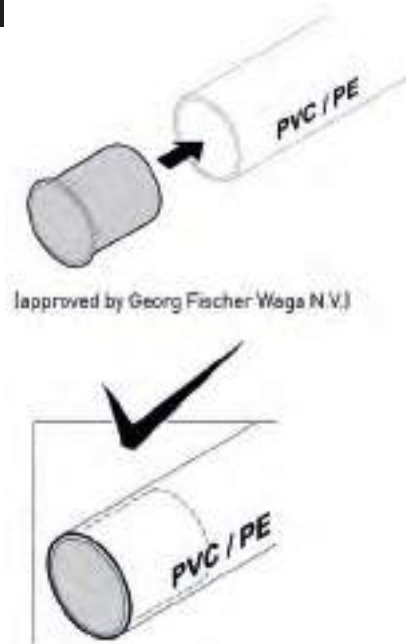
D	Für die Gasanwendung den Dichtungsbereich ausreichend mit Gleitmittel versehen.
NL	Smeer de afdichting in met een geschikt glijmiddel.
F	Lubrifiez le bague de joint avec une graisse appropriée.
NO	Bruk egnet glidemiddel.
SE	Applicera lämpligt smörjmedel.
DK	Påfør egnet glidemiddel.
FIN	Lisää soveltuva rasva.
PT	Aplicar lubrificante adequado (nunca de origem mineral).

ES	Aplicar la grasa correspondiente a la junta.
IT	Applicare lubrificante opportuno.
GR	Τοποθετήστε κατάλληλη ποσότητα λιπαντικής ουσίας στα μηχανικά μέρη του συνδέσμου.
CZ	Aplikovat vhodné mazivo.
HU	Használjon megfelelő kenőanyagot.
RO	Se aplica lubrifiant.
PL	Natóż warstwę smaru.
RUS	Использовать только подходящую смазку.

UM/MJ/DN425-DN600/02-22

09

INSERTS NOMINAL ANGULARITY.*

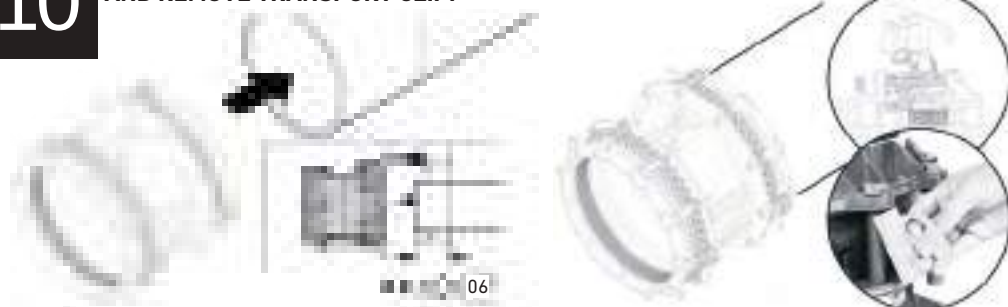


* based on the middle of the range

UM/MJ/DN425-DN600/02-22

10

SLIDE THE MULTI//JOINT® 3000 PLUS ONTO PIPE END AND REMOVE TRANSPORT CLIP!



- | | |
|--|---|
| <p>D Den MULTI//JOINT® 3000 Plus auf das Rohrende schieben und den Transportclip entfernen!</p> <p>NL Schuif de MULTI//JOINT® 3000 Plus op het buiseinde en verwijder de transportclips!</p> <p>F Faites glisser le MULTI//JOINT® 3000 Plus sur l'extrémité du tuyau et retirez le clip de transport!</p> <p>NO Skli MULTI//JOINT® 3000 Plus mufte innpå rørende og deretter fjern transportpinnen.</p> <p>SE Skjut MULTI//JOINT® 3000 Plus kopplingen på røret och ta bort transportsäkringarna (clip)!</p> <p>DK Skub MULTI//JOINT® 3000 Plus på røret og fjern transportbeslaget!</p> <p>FIN Liu'uta MULTI//JOINT® 3000 Plus putken päälle ja poista kuljetus klipsi!</p> <p>PT Deslize o MULTI//JOINT® 3000 Plus na extremidade do tubo e remover o clipe de transporte!</p> | <p>ES Deslice el MULTI//JOINT® 3000 Plus sobre el extremo del tubo y retire el clip de transporte!</p> <p>IT Inserire MULTI//JOINT® 3000 Plus sul tubo e successivamente rimuovere i fermi per il trasporto!</p> <p>GR Εισάγετε το multi//joint® 3000 plus στο ακρο του αγωγού και αφαιρέστε το κουμπωμα μεταφοράς!</p> <p>CZ Nasunout tvarovku MULTI//JOINT® 3000 Plus na konec trubky a teprve potom odstranit oranžové vymezovací díly!</p> <p>HU Csúsztassa a MULTI//JOINT® 3000 Plus kötőidomot a csővégre, és távolítsa el a szállítási rögzítőelemet!</p> <p>RO Introduceti piesa MULTI//JOINT® 3000 Plus pe capatul conductei si inlaturati siguranta pentru transport!</p> <p>PL Nasuń łącznik MULTI//JOINT® 3000 Plus na rurę a następnie zdejmij zabezpieczenie transportowe!</p> <p>RUS Установите MULTI//JOINT® 3000 Plus на конец трубы и удалите транспортировочный хомут!</p> |
|--|---|

UM/M/J/DN425-DN600/02-22

11^a

CHECK TABLE FOR INSTALLATION TORQUE AND PRESSURE RATING**.

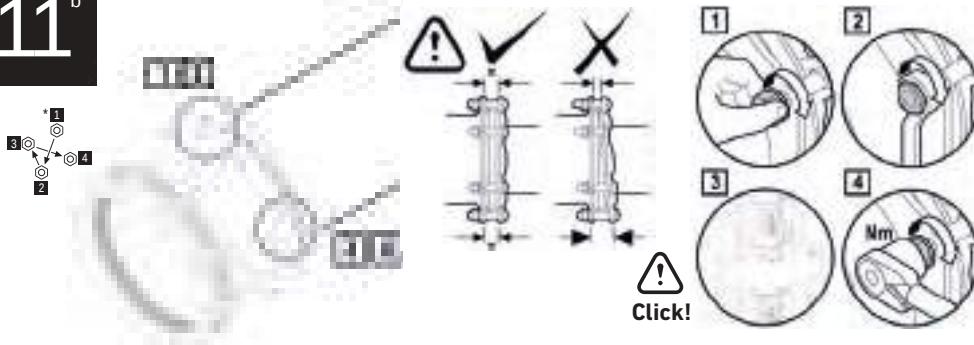
		RESTRAINT				NON RESTRAINT	
MULTI/JOINT® 3000 Plus with Fikser		 		MULTI/JOINT® 3000 Plus without Fikser		 	
[S]St, CU, DCI, GCI, AC*, GRP*, PVC, PE, PEX, PP-B, PP-H, ABS [* NO guarantee as quality varies!]				[S]St, CU, DCI, GCI, AC, GRP, PVC, PE, PEX, PP-B, PP-H, ABS			
DN	Torque (Nm)	MOP gas (bar)	PFA water (bar)	DN	Torque (Nm)	MOP gas (bar)	PFA water (bar)
DN425	140	5	10	DN425	140	8	16
DN450							
DN475							
DN500							
DN550							
DN600				DN600			

** ALL FITTINGS PN16 RATED, SEE RESTRAINT TABLE FOR PULL OUT RESISTANT FORCES

UM/M/J/DN425-DN600/02-22

11^b

TIGHTEN THE BOLTS WITH THE CORRECT TORQUE.



D Der Tabelle das richtige Schraubendrehmoment entnehmen. Die Verwendung eines Drehmomentschlüssels ist zwingend erforderlich.

NL Zie de tabel voor het juiste aandraaimoment.

F Vérifiez dans les tableaux le couple de serrage à respecter.

NO Mutrene strammes i kryss, da man skal holde samme avstand mellom koblingshus og trykkflens(gland). Etterstram med en momentnøkkel ihht. Momenttabell.

SE Kontrollera i tabell korrekt åtdragningsmoment.

DK Det rigtige tilspændingsmoment findes i tabellen.

FIN Tarkista taulukosta oikea vääntömomentti.

PT Ver na tabela a força de aperto.

ES Ver tabla para el par de apriete.

IT Controllare la tabella per il serraggio.

GR Συμβουλευτείτε τον πίνακα για την επιλογή της κατάλληλης στρεπτικής ροπής που θα πρέπει να εφαρμοστεί στον σύνδεσμο, κατά την διαδικασία της σύσφιξης του στον αγωγό.

CZ Zkontrolovat v tabulce správný utahovací moment.

HU Ellenőrizze a táblázatot a megfelelő nyomaték érdekében.

RO Se verifica in tabel valoarea momentului de stangere.

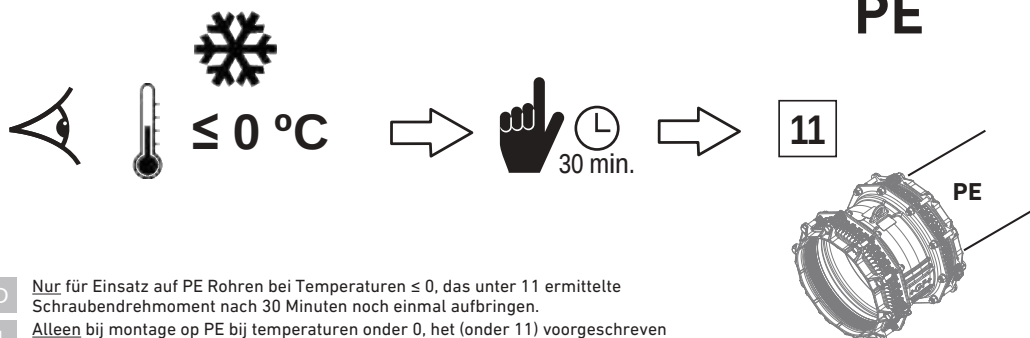
PL Odczytaj z tabeli odpowiedni moment dokręcania śrub.

RUS Проверить по таблице соответствующий момент затяжки болтов.

UM/M/J/DN425-DN600/02-22

12

≤ 0 °C ONLY ON PE PIPE UNDER FREEZING CONDITIONS, APPLY TORQUE (PRESCRIBED UNDER 11) ONE MORE TIME AFTER 30 MINUTES.



D Nur für Einsatz auf PE Rohren bei Temperaturen ≤ 0, das unter 11 ermittelte Schraubendrehmoment nach 30 Minuten noch einmal aufbringen.

NL Alleen bij montage op PE bij temperaturen onder 0, het (onder 11) voorgeschreven draaimoment na 30 minuten nog eenmaal aanbrengen.

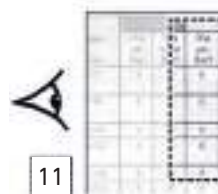
F Répétez l'étape 11 après 30 minutes seulement sur des tubes en PE en temps glacial.



UM/M/J/DN425-DN600/02-22

13

CONDUCT A PRESSURE TEST.



$$P_{max} \leq 1,5 \times PFA$$

D Dichtheitsprüfung durchführen.

NL Voer een druktest uit.

F Procédez à un essai de pression.

NO Utfør trykktest på hele installasjonen, med minimum det aktuelle driftstrykk for anlegget dekkes til. Trykktestingen må ikke overstige 1,5 x PFA (max arbeidstrykk) i henhold til tabellen.

SE Utför tryckprovning.

DK Gennemfør en trykprøvning.

FIN Aseta painetesti.

PT Efetuar teste de pressão.

ES Realizar un test de presión.

IT Fare test in pressione.

GR Για τον έλεγχο της στεγανότητας της σύνδεσης πραγματοποιείτε δοκιμή υπό πίεση στον αγωγό για τυχόν διαρροές.

CZ Provést tlakovou zkoušku.

HU Hajtsón végre nyomáspróbát.

RO Se realizeaza un test de presiune.

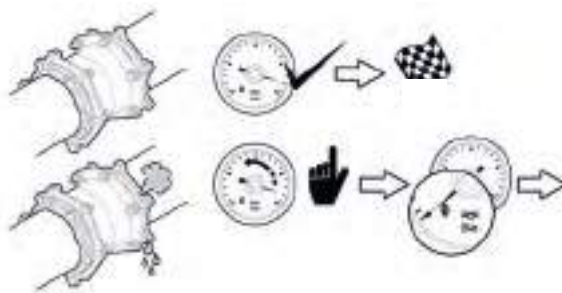
PL Przeprowadź próbę ciśnieniową.

RUS Провести опрессовку.

UM/MJ/DN425-DN600/02-22

14

TEST OK → INSTALLATION FINISHED. IF PRESSURE TEST FAILS: REINSTALL FITTING.



Disassembly
& Reuse

D Falls die Dichtheitsprüfung eine Undichtheit aufzeigt, den Montagevorgang wiederholen - nach wiederholter, erfolgreicher Dichtheitsprüfung ist die Montage abgeschlossen.

NL Druktest negatief → opnieuw installeren. Test OK → installatie gereed.

F Mauvais résultat d'essai, réinstallez le raccord. Essai réussi, l'installation est terminée.

NO Trykkprøving negativ → Re-installer kobling. Test OK → installasjon er utført.

SE Tryckprovning falerar → Ommontera rördelen. Test OK → installation avslutad.

DK Trykprøvning negativ → Re-installer kobling. Test OK → installationen er udført.

FIN Paine testi hylätty → asenna uudelleen. Testi OK → asennus suoritettu.

PT Teste de pressão falhou → Voltar a instalar o acessório → Teste OK → Instalação terminada.

ES Test de Presion Fallo → Reinstalar el accesorio TEST OK → Instalacion completada

IT Se test negativo → Reinstallare. Se test positivo → Installazione finita.

GR Σε περίπτωση που η εγκατάσταση αποτύχει και υπάρχει διαρροή στη σύνδεση → Επανα-εγκαταστήσετε το σύνδεσμο. Σε περίπτωση που η δεν παρατηρηθεί διαρροή στη σύνδεση → η εγκατάσταση του συνδέσμου επί του αγωγού έχει ολοκληρωθεί με επιτυχία.

CZ Tlaková zkouška není OK → tvarovku znovu namontovat. Tlaková zkouška OK → konec instalace.

HU Nyomás próba sikertelen → végezze el újra az idom felhelyezését. Próba sikeres → felhelyezés befejezve.

RO Daca testul de presiune esueaza → Se reinstaleaza fittingul. Daca rezultatul testului este OK → Instalare terminata.

PL Nieudana próba → Ponowny montaż łącznika. Udana próba → montaż zakończony.

RUS Опрессовка не пройдена → Установить фитинг снова. Опрессовка пройдена → Установка завершена.

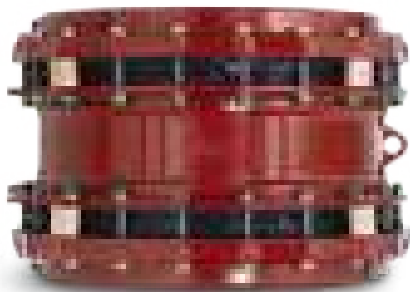
UM/MJ/DN425-DN600/02-22

User manual MULTI/JOINT® 3000 Plus DN625 - DN825

Georg Fischer Waga N.V.

+GF+

MULTI/JOINT® 3000 Plus DN625-DN825

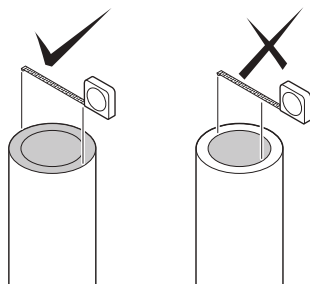


User Manual	GB
Montageanleitung	D
Montagehandleiding	NL
Manuel d'instruction	F
Brukermanual	NO
Användarmanual	SE
Montagevejledning	DK
Käyttömanuaali	FIN
Manual de instalacion	ES
Manual de instalação	PT
Manuale d'uso	IT
Manualul utilizatorului	RO
Návod k montáži	CZ
Εγχειρίδιο χρήσης	GR
Szerelési utasítás	HU
Руководство по установке	RUS
Instrukcja Obsługi	PL

UM/MJ/DN625-DN825/02-22

1

CHECK TABLE IF CHOSEN FITTING MATCHES PIPE OD.



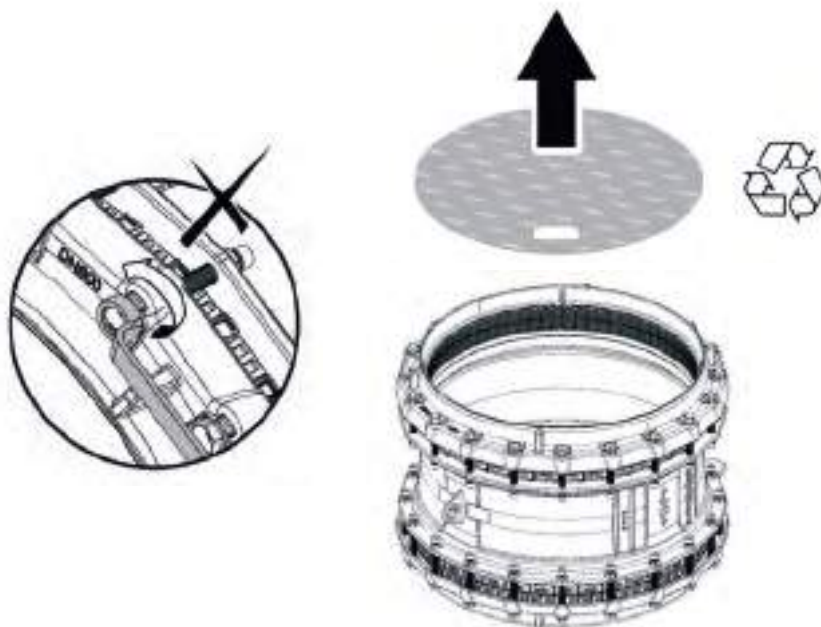
DN	Range [mm]
DN625	630 – 662
DN675	665 – 697
DN700	709 – 741
DN750	745 – 777
DN800	799 – 831
DN825	837 – 869

D	Die Rohraussendurchmesser überprüfen und mit der Tabelle vergleichen.
NL	Kies de juiste koppeling m.b.v. de tabel.
F	Vérifiez sur le tableau si le raccord couvre bien le diamètre extérieur du tube.
NO	Sjekk med tabell at koblingen stemmer overens med utvendig diameter rør.
SE	Kontrollera om vald rördel stämmer mot rørets ytterdiameter.
DK	Kontroller med tabellen om den valgte kobling passer til rørdiameteren.
FIN	Tarkista taulukosta jos valitut asennukset sopivat putkelle QD.
PT	Ver na tabela se os acessórios estão de acordo com o diâmetro exterior dos tubos.
ES	Ver tabla anexa para unir distintos diámetros exteriores.

IT	Controllare sulla tabella se il giunto è idoneo al d.e. del tubo.
GR	Με βάση το πίνακα μεγεθών, επιβεβαιώστε ότι ο σύνδεσμος είναι κατάλληλος για τη συγκεκριμένη διάμετρο αγωγού στον οποίο πρόκειται να τοποθετηθεί.
CZ	V tabulce zkontrolovat použitelnost tvarovky v daném rozsahu průměrů.
HU	Ellenőrizze, hogy a kiválasztott idom megfelel-e a cső külső átmérőjéhez.
RO	Se verifica în tabel dacă fittingul ales corespunde Dext al tevii.
PL	Sprawdź w tabeli czy łącznik pasuje do zewnętrznej średnicy rury.
RUS	Проверить по таблице совместимость фитинга с трубой.

UM/MJ/DN625-DN825/02-22

2



UM/MJ/DN625-DN825/02-22

3

CHECK IF "FIKERS" (METAL GRIPPERS) POSITION IS CORRECT.



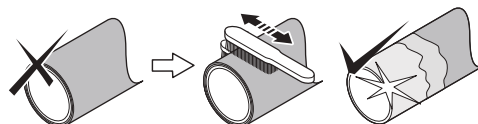
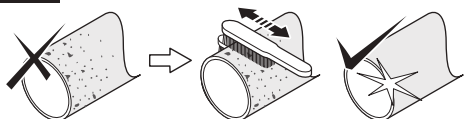
- D** Sicherstellen, dass alle Fikser richtig positioniert sind.
- NL** Controleer de juiste positie van de "Fiksers".
- F** Assurez-vous que les "Fiksers" (les mors métalliques) sont correctement positionnés.
- NO** Kontrollér at "Fikserne" er i riktig posisjon.
- SE** Kontrollera om "Fiksers" position är korrekt.
- DK** Kontrollér om "Fikernes" placering er korrekt.
- FIN** Tarkista "Fikseri", että asento on oikein.
- PT** Ver se a posição dos "Fiksers" é correto.

- ES** Revise si los "Fiksers" se encuentran en la posición correcta.
- IT** Controllare gli inserti antisfilo "Fiksers" sono OK.
- GR** Ελέγξτε αν τα εξαρτήματα αγκύρωσης που διαθέτει ο σύνδεσμος "Fiksers" έχουν αγκυρώσει σωστά πάνω στον αγωγό.
- CZ** Zkontrolovat správnou polohu fixerů.
- HU** Ellenőrizze, hogy a "Fikser"-ek megfelelő helyzetben vannak-e.
- RO** Se verifica dacă poziția elementelor de fixare "Fiksers" este corectă.
- PL** Sprawdzić poprawność ułożenia blaszek.
- RUS** Убедиться в правильности установки "Fiksers" (металлических фиксаторов).

UM/MJ/DN625-DN825/02-22

4

REMOVE ALL RUST, DIRT, BURRS, AND DAMAGES FROM THE PIPE. INSTALL ON MEDIUM CARRYING PIPE MATERIAL ONLY.



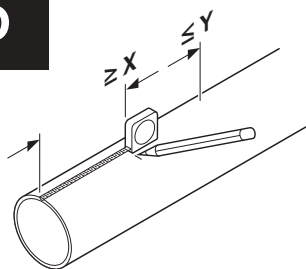
- D** Entfernen sie auf dem rohr den gesamten rost-, schmutz-, grate- und beschädigungen. Nur auf der rohroberfläche des medium transportierenden rohres installieren. (PE) schutzmantel sind zu entfernen.
- NL** Verwijder alle roest, vuil, bramen en beschadigingen. Monteer alleen op de mediumvoerende buis.
- F** Éliminez la rouille, la saleté, les bourrelets de soudures et les défauts de surface du tube. Assemblez seulement sur le matériau principal du tube.
- ES** Retirar toda la suciedad, polvo y daños de la tubería. Instalar solo en la tubería que transporte el agua.
- NO** Fjern all rust, skitt, riper og skader fra røret. Installer kun på selve medierørets material.
- SE** Avlägsna all rost och smuts samt avgrada och ta bort ytdefekter på røret. Montera endast på mediabärande rörmaterial.
- DK** Fjern al rust, snavs, spåner, belægninger og beskadigelser fra røret. Montér kun på selve det mediebærende rør.
- FIN** Poista aina putkenpinnalta ruoste, irtoaines, vahingoittunut materiaali, lovet ja putkipinnoitteet. Asennus ainoastaan hyväksytyille putkimateriaaleille.
- PT** Remova toda a ferrugem, sujeira e a parte danificada da tubulação. Instalar somente em tubulações feitas para transporte de fluidos.

- HU** Távolítsa el minden rozsdát, szennyeződést, sorját és sérülést a csőről. Csak közvetlenül a közegszállító csőanyagra helyezze fel az idomot.
- IT** Rimuovere ruggine, sporco, bave e intagli dal tubo. Rimuovere eventuali rivestimenti dal tubo prima di installare il raccordo.
- GR** Αφαιρέστε όλες τις οξειδώσεις, τις ακαθαρσίες, τις παραμορφώσεις και τις αλλοιώσεις υλικού από την επιφάνεια του αγωγού. Αγκυρώστε αποκλειστικά επί επιφάνειας του αγωγού μεταφοράς του ρευστού.
- CZ** Odstranit všechny nečistoty, rez a ořepy z povrchu trubky. Montovat pouze na trubky určené pro transport médií.
- RO** Înălăturati rugina, mizeria, bavurile si defectele de pe teava. Instalati doar pe materialul conductei care este in contact cu fluidul transportat.
- PL** Usuń z rury rdzę, brud, zadziory i inne uszkodzenia. Instalować tylko na materiale rury, który ma kontakt z medium.
- RUS** Удалить любые загрязнения, ржавчину, задиры и повреждения с поверхности трубы. Устанавливать только на основной материал несущей трубы.

UM/MJ/DN625-DN825/02-22

5

CHECK TABLE FOR MINIMUM INSERTION DEPTH (X).



DN	X Min. insertion depth (mm)	Y Max. insertion depth (mm)
DN625	210	320
DN675		
DN700		
DN750		
DN800		
DN825		

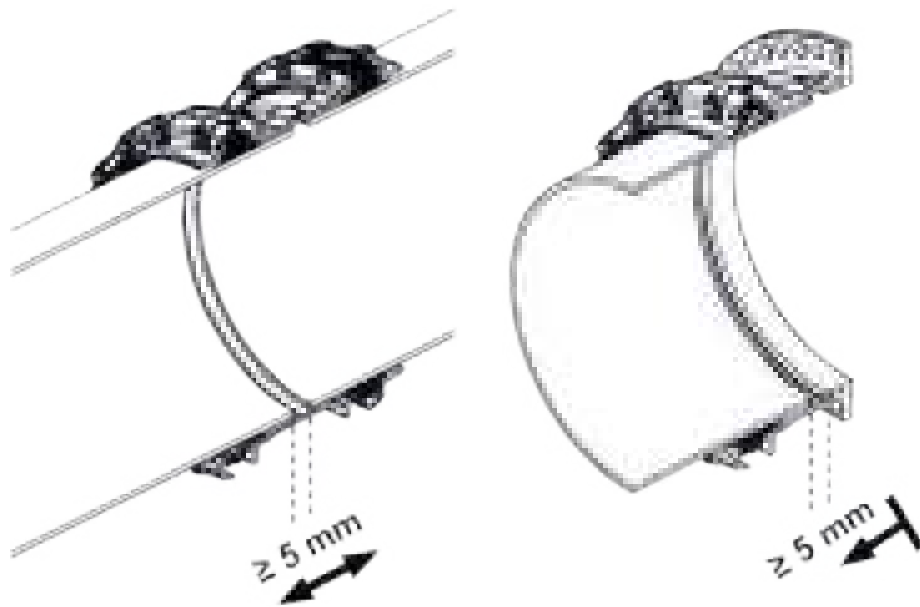
* For maximum joint gap information; see our technical manual



- D** Aus der Tabelle die Einstecktiefe entnehmen (X).
- NL** Zie de tabel voor de minimale insteekdiepte (X).
- F** Vérifiez sur le tableau la profondeur d'insertion (X) correcte du tube.
- NO** Sjekk med tabell for korrekt innstikksdybde (X).
- SE** Kontrollera i tabellen korrekt insticksdjup (X).
- DK** Kontroller med tabellen for korrekt indstikksdybde (X).
- FIN** Tarkista taulukosta oikea asennus syvyys (X).
- PT** Ver na tabela a profundidade (X) de inserção do tubo no acessório.
- ES** Ver tabla para la profundidad de inserción mínima (X).
- IT** Controllare sulla tabella la profondità di inserimento (X).
- GR** Συμβουλευτείτε τον πίνακα για την υπόδειξη του κατάλληλου βάθους εισαγωγής (X) του συνδέσμου στον αγωγό.
- CZ** Zkontrolovat v tabulce správnou hloubku zasunutí (X).
- HU** Ellenőrizze a táblázatot a megfelelő betolási mélység érdekében (X).
- RO** Se verifica in tabel adancimea corecta de inserare (X).
- PL** Korzystając z tabeli określi głębokość nasunięcia łącznika (X).
- RUS** Проверить по таблице значение глубины ввода трубы (X).

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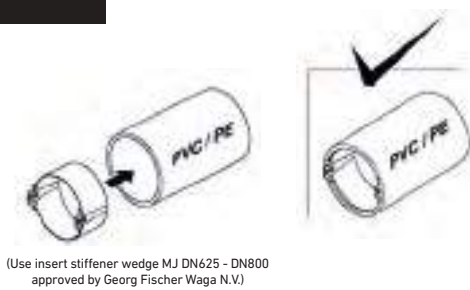
6



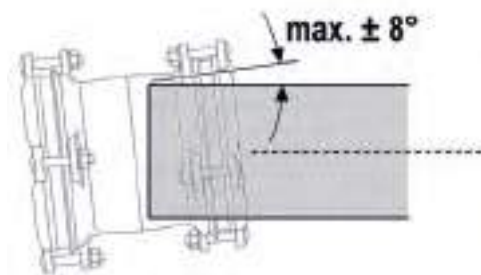
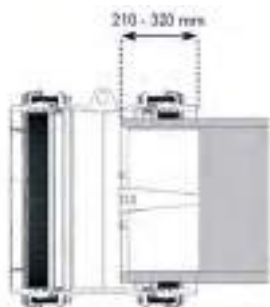
UM/MJ/DN625-DN825/02-22

7

INSERTS FOR PLASTIC PIPES.
NOMINAL ANGULARITY.*



(Use insert stiffener wedge MJ DN625 - DN800
approved by Georg Fischer Waga N.V.)

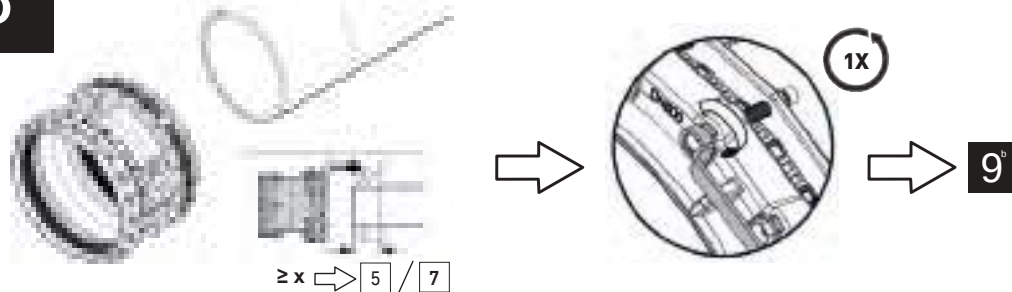


* Based on the middle of the range..

UM/MJ/DN625-DN825/02-22

8^a

SLIDE THE MULTI//JOINT® 3000 PLUS ONTO PIPE END AND REMOVE TRANSPORT CLIP!

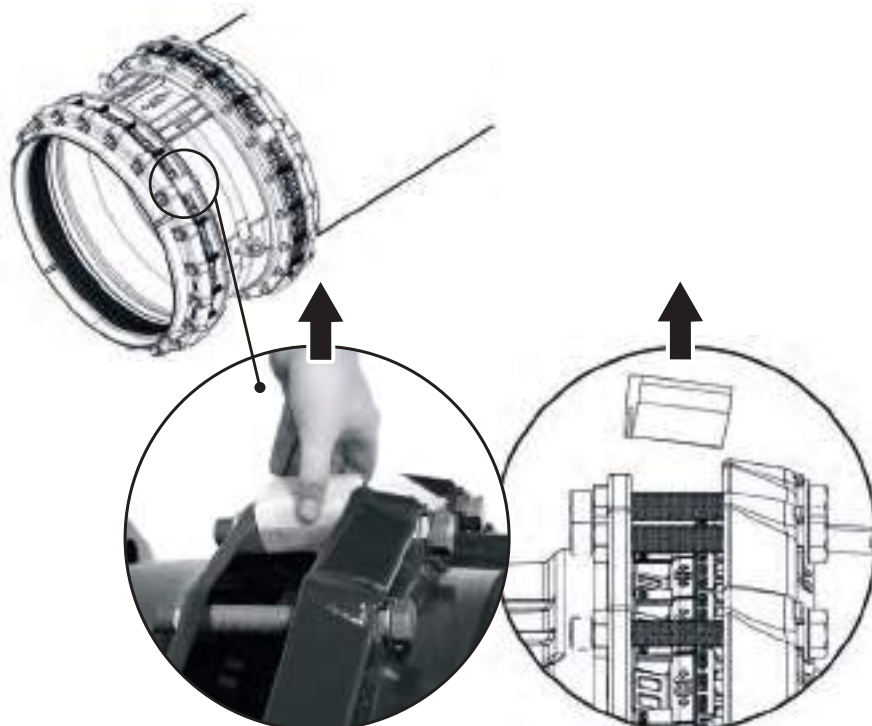


D	Den MULTI//JOINT® 3000 Plus auf das Rohrende schieben und den Transportclip entfernen!
NL	Schuif de MULTI//JOINT® 3000 Plus op het buiseinde en verwijder de transportclips!
F	Faites glisser le MULTI//JOINT® 3000 Plus sur l'extrémité du tuyau et retirez le clip de transport!
NO	Skli MULTI//JOINT® 3000 Plus innpå rørende og deretter fjern transportpinnen.
SE	Skjut MULTI//JOINT® 3000 Plus kopplingen på røret och ta bort transportsäkringarna (clip)!
DK	Skub MULTI//JOINT® 3000 Plus på røret og fjern transportbeslaget!
FIN	Liu'uta MULTI//JOINT® 3000 Plus putken päälle ja poista kuljetus klipsi!
PT	Deslize o MULTI//JOINT® 3000 Plus na extremidade do tubo e remover o clipe de transporte!

ES	Deslice el MULTI//JOINT® 3000 Plus sobre el extremo del tubo y retire el clip de transporte!
IT	Inserire MULTI//JOINT® 3000 Plus sul tubo e successivamente rimuovere i fermi per il trasporto!
GR	Εισαγάγετε το multi//joint® 3000 plus στο άκρο του αγωγού και αφαιρέστε το κουμπωμα μεταφοράς!
CZ	Nasunout tvarovku MULTI//JOINT® 3000 Plus na konec trubky a teprve potom odstranit oranžové vymezovací díly!
HU	Csúsztassa a MULTI//JOINT® 3000 Plus kötőidomot a csővégre, és távolítsa el a szállítási rögzítőelemet!
RO	Introduceti piesa MULTI//JOINT® 3000 Plus pe capatul conductei si inlaturati siguranta pentru transport!
PL	Nasuń łącznik MULTI//JOINT® 3000 Plus na rurę a następnie zdejmij zabezpieczenie transportowe!
RUS	Установите MULTI//JOINT® 3000 Plus на конец трубы и удалите транспортировочный хомут!

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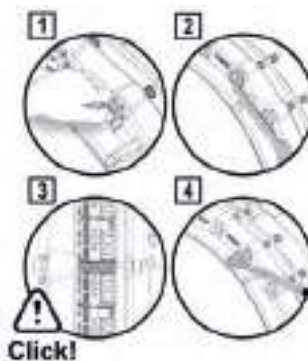
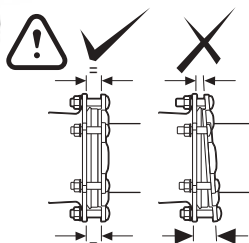
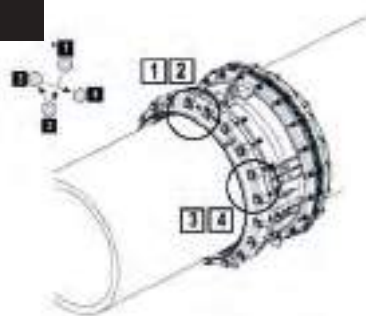
8^b



UM/MJ/DN625-DN825/02-22

9^a

TIGHTEN THE BOLTS WITH THE CORRECT TORQUE.



D	Der Tabelle das richtige Schraubendrehmoment entnehmen.
NL	Zie de tabel voor het juiste aandraaimoment.
F	Vérifiez dans les tableaux le couple de serrage à respecter.
NO	Mutrene strammes i kryss, da man skal holde samme avstand mellom koblingshus og trykkflens(gland). Etterstram med en momentnøkkel iht. Momenttabell.
SE	Kontrollera i tabell korrekt åtdragningsmoment.
DK	Det rigtige tilspændingsmoment findes i tabellen.
FIN	Tarkista taulukosta oikea vääntömomentti.
PT	Ver na tabela a força de aperto.

ES	Ver tabla para el par de apriete.
IT	Controllare la tabella per il serraggio.
GR	Συμβουλευτείτε τον πίνακα για την επιλογή της κατάλληλης στρεπτικής ροπής που θα πρέπει να εφαρμοστεί στον σύνδεσμο, κατά την διαδικασία της σύσφιξης του στον αγωγό.
CZ	Zkontrolovat v tabulce správný utahovací moment.
HU	Ellenőrizze a táblázatot a megfelelő nyomaték érdekében.
RO	Se verifica in tabel valoarea momentului de stangere.
PL	Odczytaj z tabeli odpowiedni moment dokręcania śrub.
RUS	Проверить по таблице соответствующий момент затяжки болтов.

UM/MJ/DN625-DN825/02-22

9^b

CHECK TABLE FOR INSTALLATION TORQUE AND PRESSURE RATING**.

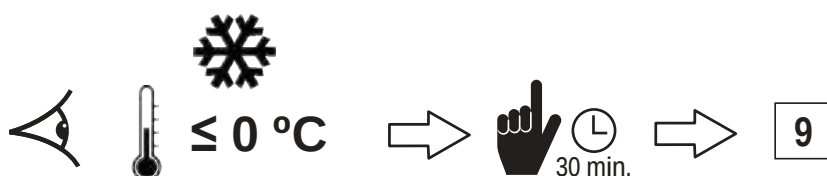
		RESTRAINT				NON RESTRAINT			
MULTI/JOINT® 3000 Plus with Fikser						 			
[S]St, CU, DCI, GCI, AC*, GRP*, PVC, PE, PEX, PP-B, PP-H, ABS (* NO guarantee as quality varies!)				[S]St, CU, DCI, GCI, AC, GRP, PVC, PE, PEX, PP-B, PP-H, ABS					
DN	Torque (Nm)		PFA water (bar)		DN	Torque (Nm)		PFA water (bar)	
	Metal	Non metal							
DN625	200	140	10		DN625	140		16	
DN675									
DN700									
DN750									
DN800									
DN825									

** All fittings PN16 rated, see restraint table for pull out restraint forces

UM/MJ/DN625-DN825/02-22

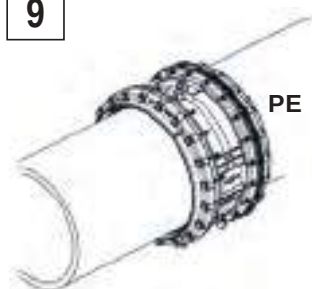
10

≤ 0 °C ONLY ON PE PIPE, APPLY TORQUE (PRESCRIBED UNDER 10) ONE MORE TIME AFTER 30 MINUTES.



PE

- D Nur für Einsatz auf PE Röhren bei Temperaturen ≤ 0 °C, das unter 9 ermittelte Schraubendrehmoment nach 30 Minuten noch einmal aufbringen.
- NL Alleen bij montage op PE bij temperaturen onder 0 °C, het (onder 9) voorgeschreven draaimoment na 30 minuten nog eenmaal aanbrengen.
- F Répétez l'étape 9 après 30 minutes seulement sur des tubes en PE en temps glacial.

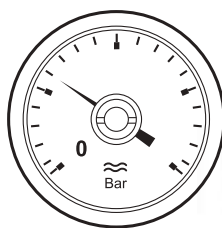


UM/MJ/DN625-DN825/02-22



11

CONDUCT A PRESSURE TEST.



$P_{max} \leq 1,5 \times PFA$

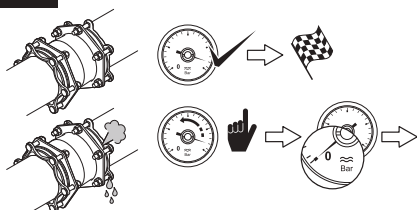


- D Dichtheitsprüfung durchführen.
- NL Voer een druktest uit.
- F Procédez à un essai de pression.
- NO Utfør trykkttest på hele installasjonen, med minimum det aktuelle driftstrykk før anlegget dekkes til. Trykkttestingen må ikke overstige 1,5 x PFA (max arbeidstrykk) i henhold til tabellen.
- SE Utför tryckprovning.
- DK Gennemfør en trykprøvning.
- FIN Aseta painetesti.
- PT Efetuar teste de pressão.
- ES Realizar un test de presión.
- IT Fare test in pressione.
- GR Για τον έλεγχο της στεγανότητας της σύνδεσης πραγματοποιείστε δοκιμή υπό πίεση στον αγωγό για τυχόν διαρροές.
- CZ Provést tlakovou zkoušku.
- HU Hajtson végre nyomáspróbát.
- RO Se realizeaza un test de presiune.
- PL Przeprowadź próbę ciśnieniową.
- RUS Провести опрессовку.

UM/MJ/DN625-DN825/02-22

12

**IF PRESSURE TEST FAILS: REINSTALL FITTING.
TEST OK → INSTALLATION FINISHED.**



**Disassembly
& Reuse**

D	Falls die Dichtheitsprüfung eine Undichtheit aufzeigt, den Montagevorgang wiederholen - nach wiederholter, erfolgreicher Dichtheitsprüfung ist die Montage abgeschlossen.	IT	Se test negativo → Reinstallare. Se test positivo → Installazione finita.
NL	Druktest negatief → opnieuw installeren. Test OK → installatie gereed.	GR	Σε περίπτωση που η εγκατάσταση αποτύχει και υπάρχει διαρροή στη σύνδεση → Επανα-εγκαταστήσετε το σύνδεσμο. Σε περίπτωση που η δεν παρατηρηθεί διαρροή στη σύνδεση → η εγκατάσταση του συνδέσμου επί του αγωγού έχει ολοκληρωθεί με επιτυχία.
F	Mauvais résultat d'essai, réinstallez le raccord. Essai réussi, l'installation est terminée.	CZ	Tlaková zkouška není OK → tvarovku znovu namontovat. Tlaková zkouška OK → konec instalace.
NO	Trykktøving negativ → Re-installer kobling. Test OK → installasjon er utført.	HU	Nyomás próba sikertelen → végezze el újra az idom felhelyezését. Próba sikeres → felhelyezés befejezve.
SE	Tryckprovning falerar → Ommontera rördelen. Test OK → installation avslutad.	RO	Daca testul de presiune esueaza → Se reinstaleaza fittingul. Daca rezultatul testului este OK → Instalare terminata.
DK	Trykprøvning negativ → Re-installer kobling. Test OK → installationen er udført.	PL	Nieudana próba → Ponowny montaż łącznika. Udana próba → montaż zakończony.
FIN	Paine testi hylätty → asenna uudelleen. Testi OK → asennus suoritettu.	RUS	Опрессовка не пройдена → Установить фитинг снова. Опрессовка пройдена → Установка завершена.
PT	Teste de pressão falhou → Voltar a instalar o acessório → Teste OK → Instalação terminada.		
ES	Test de Presion Fallo → Reinstalar el accesorio TEST OK → Instalacion completada		

UM/MJ/DN625-DN825/02-22

User manual ST-System

Georg Fischer Waga N.V.

+GF+

GB	User Manual
D	Montageanleitung
NL	Montagehandleiding
F	Manuel d'instruction
NO	Brukermanual
SE	Användarmanual
DK	Montagevejledning
FIN	Käyttömanuaali
ES	Manual de instalacion
PT	Manual de instalação
IT	Manuale D'uso
RO	Manualul utilizatorului
CZ	Návod k montáži
GR	Εγχειρίδιο χρήσης
HU	Szerelési utasítás
RUS	Руководство по установке
PL	Instrukcja Obsługi

ST-System DN40-DN2200



Georg Fischer Waga N.V. - P.O. Box 290-
8160 AG Epe - The Netherlands - www.waga.nl

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01

CHECK TABLE FOR MAX. RANGE OF DEDICATED FITTING.

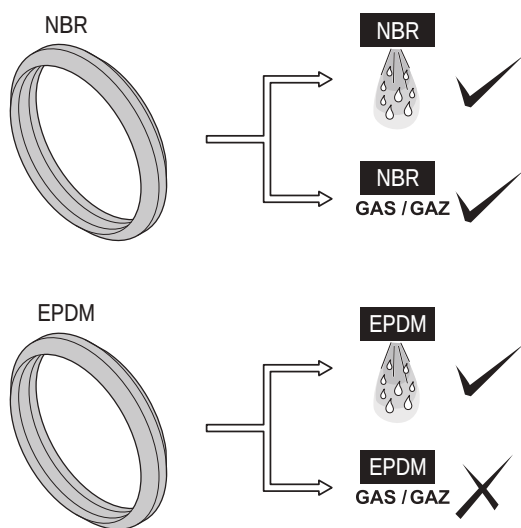
DN (mm)			Range (mm)		
DN40	-	DN80	+ 2		- 1
DN100	-	DN200	+ 2		- 1,5
DN250	-	DN500	+ 4		- 3
DN600	-	DN1100	+ 5		- 4
DN1200	-	DN1600	+ 5,5		- 5
DN1700	-	DN2200	on request		



**THE ST-SYSTEM IS A TAILOR MADE SOLUTION.
IT IS PRODUCED ON CUSTOMER SPECIFICATION ONLY.**

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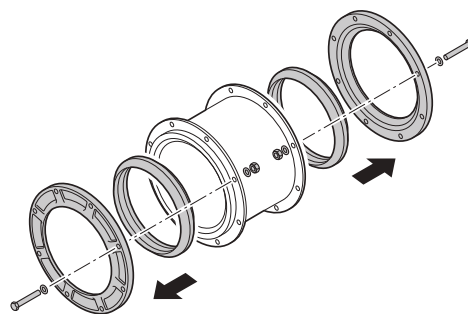
02



Water = 10, 16 or 25 bar*
Gas = 4 bar*

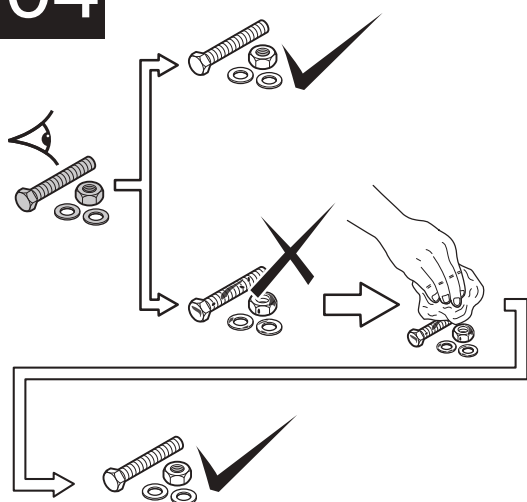
* Depends on ordered dedicated fitting.

03

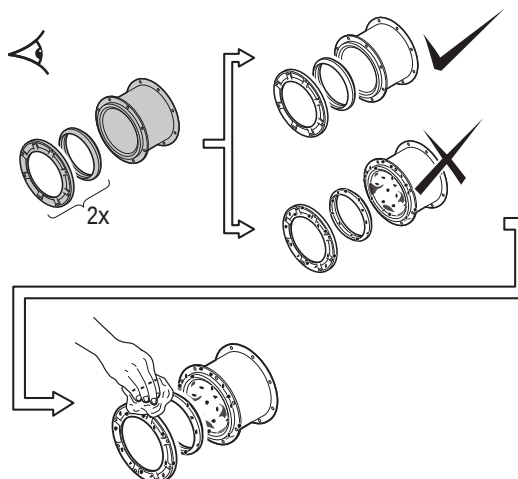


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04



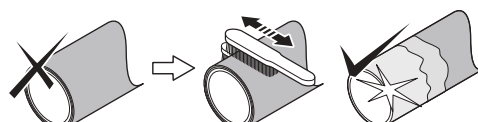
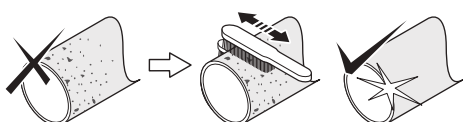
05



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06

REMOVE ALL RUST, DIRT, BURRS, DAMAGES AND ALL FINISHING LAYERS FROM THE PIPE. MOUNT ON MEDIUM CARRYING PIPE MATERIAL ONLY.



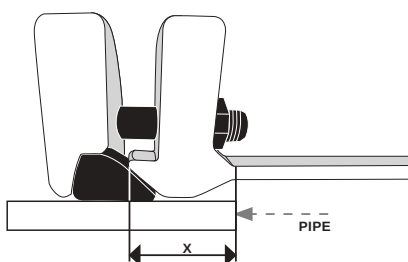
D	Von der drucktragenden Rohroberfläche allen Rost, Grat, Schmutz, Schäden und alle Beschichtungen entfernen.
NL	Verwijder alle roest, vuil, bramen, beschadigingen en buislagen. Monteer alleen op de mediumvoerende buis.
F	Éliminez la rouille, la saleté, les bourrelets de soudures, les défauts de surface et toutes les couches de finition du tube. Assemblez seulement sur le matériau principal du tube.
NO	Fjern all rust, løs overflate samt skader på materialet og overflatebehandling.
SE	Avlägsna all rost, smuts, grader och eventuell ytbehandling från røret. Montera endast på mediabärande rörmaterial.
DK	Fjern al rust, snavs, spåner, beskadigelser og alle belægninger på røret. Monter kun på selve det mediebærende rør.
FIN	Poista kaikki ruoste, lika, taite, vauriot ja kasaumat putkesta. Asenna ainoastaan keskivahalle putkelle.
PT	Remover oxidação, sujidade, rebarbas, e revestimento do tubo.
HU	Távolítsd el minden rozsdát, szennyeződést, sorját, sérüléseket és minden fedőréteget a csőről. Csak közvetlenül a közeg szállító csőanyagra helyezze fel az idomot.

ES	Retirar toda la suciedad, polvo, daños y etiquetas de la tubería. Montar solamente entre tubos.
IT	Rimuovere sporczia, polvere, intagli e gli strati superficiali della tubazione. Il montaggio deve avvenire sullo strato a contatto del fluido trasportato.
GR	Καθαρίστε όλα τα οξειδωμένα τμήματα, τις επικαθίσεις, τις παραμορφώσεις και τις υλικές βλάβες της επιφάνειας του αγωγού καθώς και τις επιστρώσεις του αγωγού μέχρι τον αγωγό μεταφοράς του υλικού.
CZ	Odstranit všechny nečistoty, rez, otfepy a všechny dodatečné vrstvy z povrchu trubky. Montovat pouze na trubky určené pro transport médií.
RO	Indepartati praful, crestaturile, murdaria, defectele precum si toate straturile de acoperire de pe teava. Se monteaza doar pe materialul conductei.
PL	Usuń wszelkiego rodzaju uszkodzenia, zabrudzenia, zadrapania, rdzę i wierzchnie warstwy na długości rury pokrytej przez łącznik.
RUS	Удалить любые загрязнения, ржавчину, задиры и напылы, а так же покрытия с поверхности трубы. Устанавливать только на основной материал трубы.

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07

CHECK TABLE FOR MINIMUM INSERTION DEPTH (X).



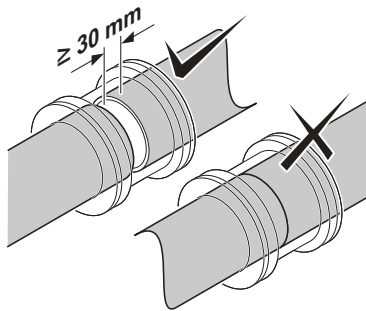
DN	X min.insertion depth (mm)	DN	X min.insertion depth (mm)	DN	X min.insertion depth (mm)
DN100	30	DN400	45	DN1200	90
DN125	30	DN500	50	DN1300	90
DN150	35	DN600	60	DN1400	95
DN200	35	DN700	60	DN1500	95
DN250	45	DN800	70	DN1600	100
DN300	45	DN900	70	>DN1600	on request
DN350	45	DN1000	70		

D	Aus der Tabelle die Einstecktiefe entnehmen.
NL	Zie de tabel voor de minimale insteekdiepte (X).
F	Vérifiez sur le tableau la profondeur d'insertion correcte du tube.
NO	Sjekk med tabell for korrekt innstikksdybde (X).
SE	Kontrollera i tabellen korrekt insticksdjup (X).
DK	Kontroller med tabellen for korrekt indstikksdybde (X).
FIN	Tarkista taulukosta oikea asennus syvyys.
PT	Ver na tabela a profundidade (X) de inserção do tubo no acessório.

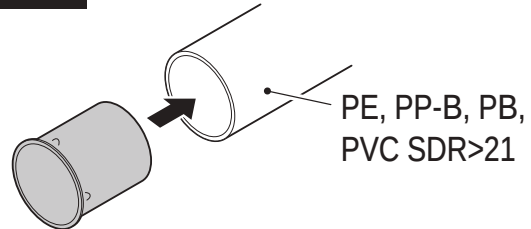
ES	Ver tabla para la profundidad de inserción mínima.
IT	Controllare sulla tabella la profondità di inserimento (X).
GR	Συμβουλευτείτε τον πίνακα για την υπόδειξη του κατάλληλου βάθους εισαγωγής (X) του συνδέσμου στον αγωγό.
CZ	Zkontrolovat v tabulce správnou hloubku zasunutí (X).
HU	Ellenőrizze a táblázatot a megfelelő betolási mélység érdekében (X).
RO	Se verifica în tabel adăncimea corectă de inserare (X).
PL	Korzystając z tabeli określi głębokość nasunięcia łącznika (X).
RUS	Проверить по таблице значение глубины ввода трубы (X).

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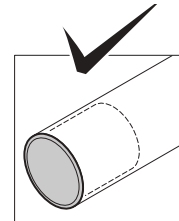
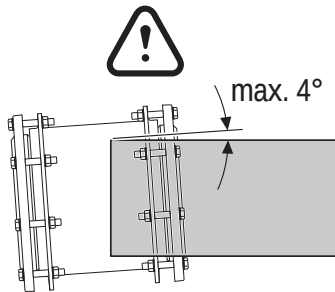
08



10



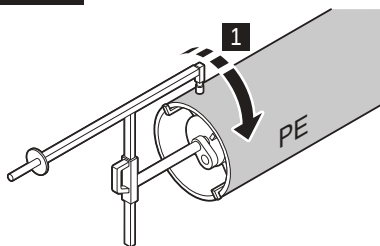
09



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11

USE AN (BY GEORG FISCHER) APPROVED SCRAPING TOOL.



GAS / GAZ



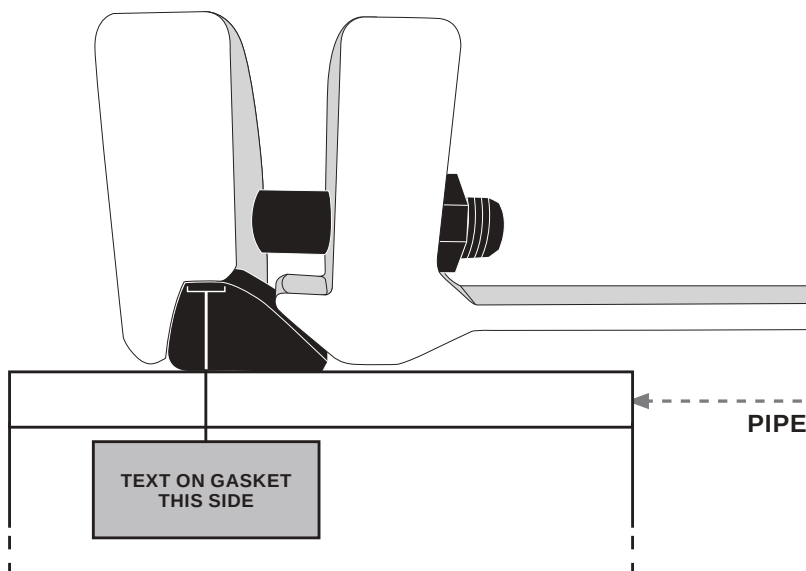
D	Für PE-Rohre ist ein Georg Fischer Schälgerät zu verwenden.
NL	Gebruik een door Georg Fischer goedgekeurde schiller.
F	Utilisez un grattoir mécanique approuvé par Georg Fischer.
NO	Bruk skrapeverktøy godkjent av Georg Fischer.
SE	Använd ett (av Georg Fischer) godkänt skrapverktyg.
DK	Brug et (af Georg Fischer) godkendt skrabeværktøj.
FIN	Käytä (Georg Fischer) hyväksymää karhennus työkalua.
PT	Usar uma ferramenta (Georg Fischer) adequada.

ES	Utilizar un rascador circular Georg Fischer.
IT	Utilizzare in raschiatore approvato da Georg Fischer.
GR	Για τις εργασίες καθαρισμού και λείανσης χρησιμοποιείστε το κατάλληλο (από την GF) εργαλείο.
CZ	Použit škrabku (schválenou Georg Fischer).
HU	Használjon (GF által jóváhagyott) hántoló szerszámot.
RO	Se va utiliza un dispozitiv de raschetat recomandat (de GF).
PL	Użyj skrobaka (Georg Fischer) do przygotowania rury.
RUS	Использовать только разрешенный (компанией Georg Fischer) инструмент для зачистки.

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12

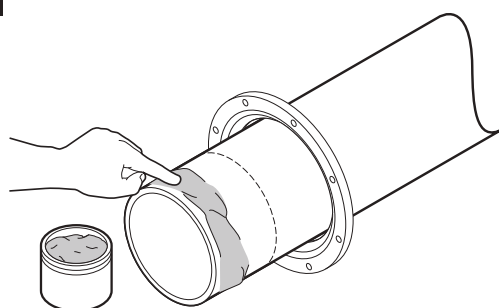
CORRECT POSITION OF THE CLAMP RING AND GASKET



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13

APPLY SUITABLE GREASE



GAS / GAZ



D	Für die Gasanwendung den Dichtungsbereich ausreichend mit Gleitmittel versehen.
NL	Smeer in met een geschikt glijmiddel.
F	Lubrifiez avec une graisse appropriée.
NO	Bruk egnet glidemiddel.
SE	Applicera lämpligt smörjmedel.
DK	Påfør egnet glidemiddel.
FIN	Lisää soveltuva rasva.
PT	Aplicar lubrificante adequado (nunca de origem mineral).

ES	Aplicar la grasa correspondiente.
IT	Applicare lubrificante opportuno.
GR	Τοποθετήστε κατάλληλη ποσότητα λιπαντικής ουσίας στα μηχανικά μέρη του συνδέσμου.
CZ	Aplikovat vhodné mazivo.
HU	Használjon megfelelő kenőanyagot.
RO	Se aplica lubrifiant.
PL	Nałożyć warstwę smaru.
RUS	Использовать только подходящую смазку.

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CONTACTO:

- Liliana Ruiz Serrano
Regional Sales Manager Latam
Teléfono +57 3213705048
liliana.ruiz@georgfischer.com
- Mateo Puentes Céspedes
Gerente General ITEMS TECNOLOGÍA
Teléfono +57 3138932886
gerencia@itemstecnologia.com.co