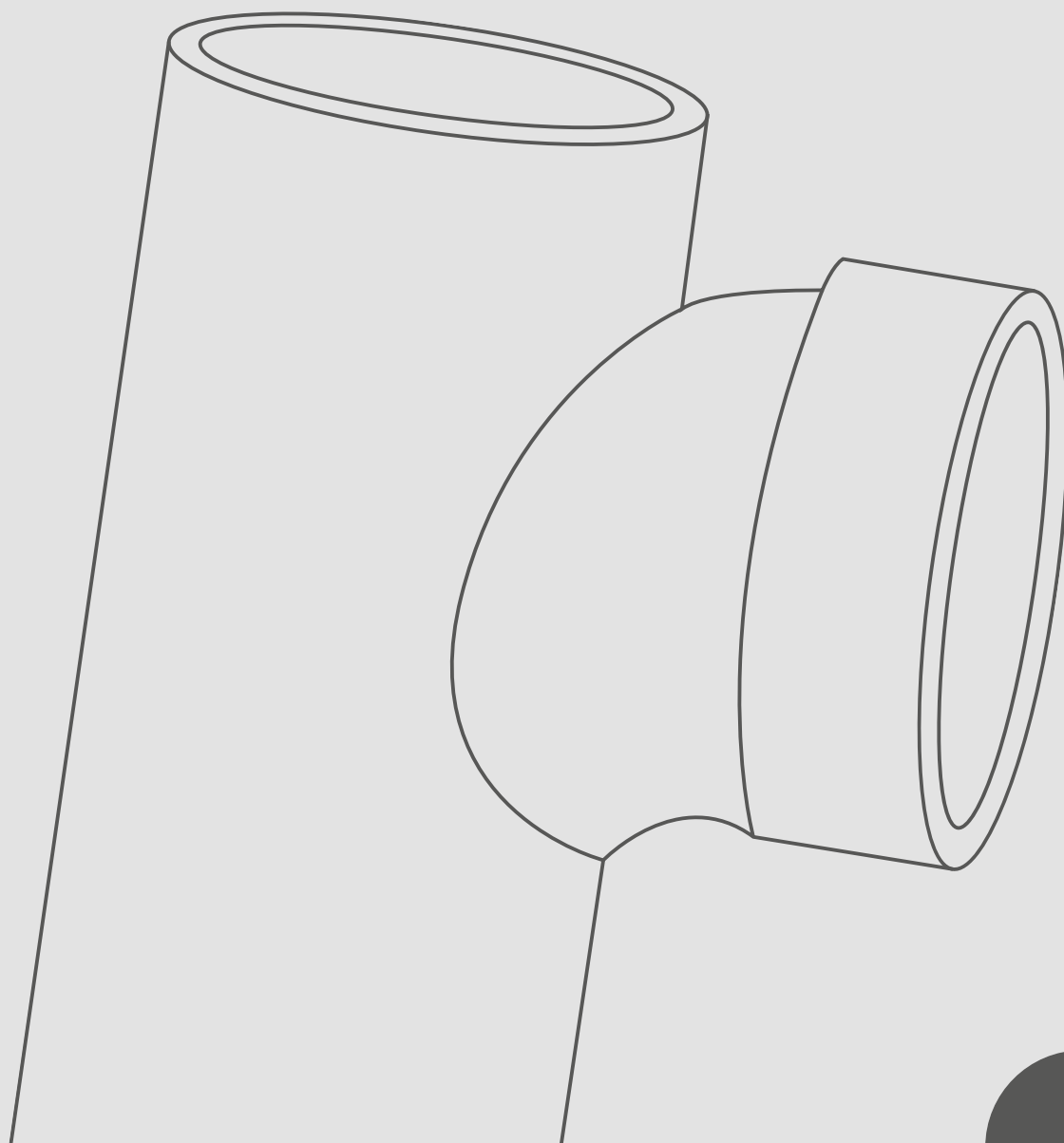
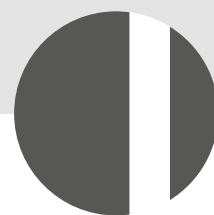


# HDPE



## Zgrzewany system kanalizacji ściekowej i deszczowej z polietylenu wysokiej gęstości

*High density polyethylene electrofusion waste system*  
*Système d'évacuation en polyéthylène haute densité à souder*

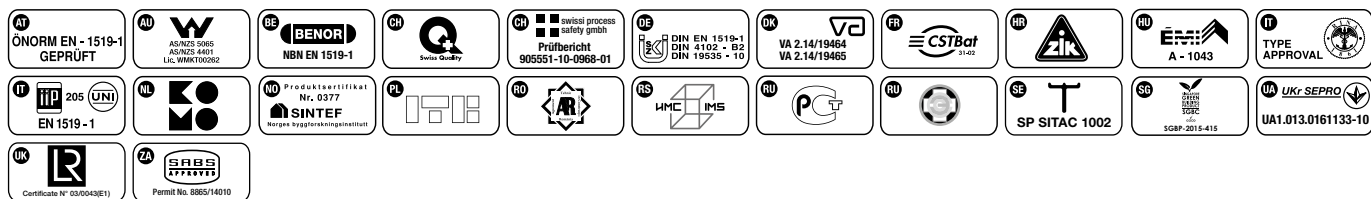


MADE IN ITALY

**04/2022**  
KATALOG/CENNIK  
CATALOGUE/PRICE LIST - CATALOGUE/TARIF  
L02-673/6

**valsir**<sup>®</sup>  
QUALITY FOR PLUMBING

HMOLOGACJE  
QUALITY APPROVALS  
HOMOLOGATIONS



LEGENDA  
LEGEND  
LÉGENDE

Skróty Abbreviations Abréviations	Jednostki miary Measurement units Unité de mesure	Opis Description Désignation
KOD	-	Kod towaru - Item code - Référence de l'article
CL	-	Kod rabatu - Discount category - Groupe produit
pln/szt	pln	Cena za sztukę - Price for piece - Prix unitaire, poids
pln/m	pln	Cena za metr - Price per meter - Prix au mètre
D	mm	Średnica - Diameter - Diamètre
DN	mm	Średnica nominalna - Nominal diameter - Diamètre nominale
	n°	Ilość w opak. jednostkowym - Pieces per pack - Prix par conditionnement
	n°	Ilość na warstwie palety - Pieces per pallet layer - Pièce par surpalette
	n°	Ilość na palecie - Pieces per pallet - Pièces par palette
HxLxP	mm	Wymiary palety - Pallet dimensions - Dimensions de la palette
	m	Ilość metrów w paczce - Packaging in metres - Emballage en mètres
▼	n°	Ilość sztuk w paczce - Pieces per crate - Pièces dans conditionnement
α	°	Kąt - Sexagesimal degree - Angle
Mod.	-	Model - Model - Modèle
Mat.	-	Materiał - Material - Matière
Art.	-	Towar - Item - Article
Conf.	-	Sposób pakowania - Packaging - Conditionnement

Wszystkie wymiary podano w mm z wyjątkiem przypadków, w których zostały wyrażone inaczej.  
All the dimensions in this price list are in mm except as otherwise expressed.  
Toutes les dimensions reportées dans le tarif sont exprimées en mm si aucune autre précision.

Produkty Valsir dostarczone są w pełnych opakowaniach zgodnie z ilościami wyszczególnionymi w katalogu.

Towary zamawiane w ilościach nieodpowiadających pełnym opakowaniom, zostaną zaokrąglone.

Valsir S.p.A. zastrzega sobie prawo do modyfikacji właściwości produktów przedstawianych w katalogu bez uprzedniego informowania. Ilustracje produktów w katalogu są przedstawione tylko w celach informacyjnych, dlatego też wygląd ich może odbiegać od rzeczywistego.

Valsir pragnie z góry przeprosić za ewentualne błędy drukarskie w niniejszym katalogu.

W przypadku natrafienia na jakiegokolwiek błęd prosimy o poinformowanie nas o tym i przesłanie nam własnych sugestii i komentarzy.

Valsir products are delivered according to the package quantity specified in this price list. Product requests not matching our package quantities will be rounded up, to the package quantity or a multiple of the same. Valsir S.p.A. reserves the right to modify the characteristics of the products shown in this price list at any time. The colours in this price list are shown for representation purposes only.

To learn more about our sales conditions, warranty terms and to send us your opinion of Valsir, please refer to our services Card (booklet L02-416) or the "SUPPORT" section of our web site [www.valsir.it](http://www.valsir.it).

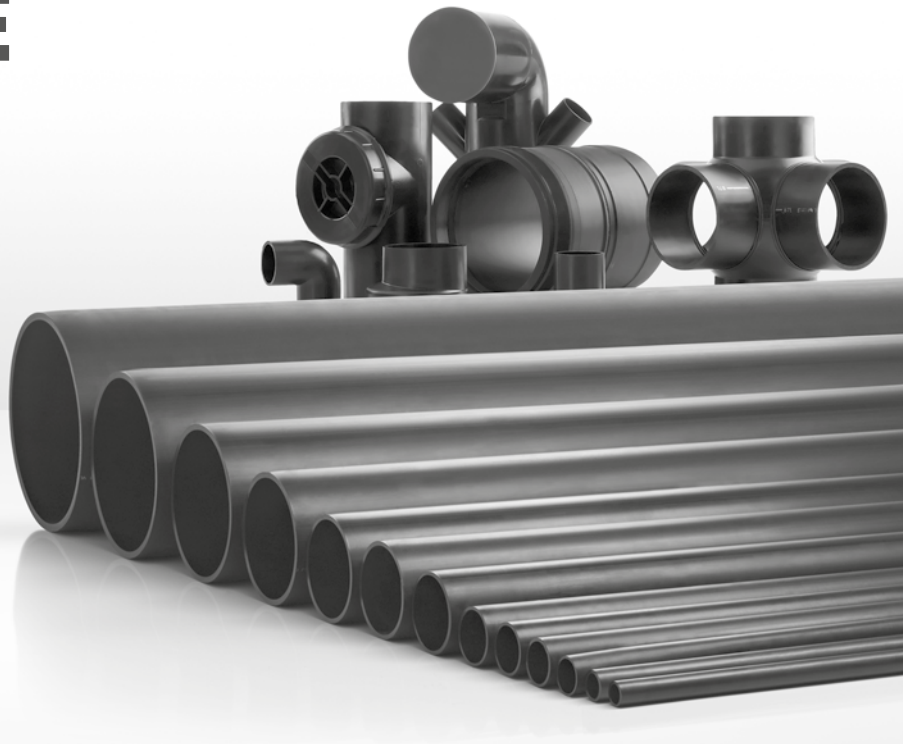
Please feel free to notify us your comments.

Les livraisons des produits Valsir sont effectuées au conditionnement complet. Toutes commandes ne correspondant pas au conditionnement seront arrondies sans préavis au conditionnement supérieur.

Valsir S.p.A. se réserve le droit de modifier à tout moment les caractéristiques des produits présentés sur ce tarif. Les couleurs reproduites dans ce tarif sont à titre indicatif.

Pour connaître les conditions de vente, les termes de garantie et exprimer son niveau de satisfaction sur Valsir, nous vous prions de vous reporter au document des services (fascicule L02-433) et à la session «SUPPORT» du site web : [www.valsir.fr](http://www.valsir.fr).

Nous invitons tous les utilisateurs à nous faire part de leurs éventuelles observations.



## VALSIR HDPE: WSZECHSTRONNOŚĆ SYSTEMU KANALIZACYJNEGO Z POLIETYLENU WYSOKIEJ GĘSTOŚCI

VALSIR HDPE: THE VERSATILITY OF A WASTE SYSTEM IN HIGH DENSITY POLYETHYLENE

VALSIR HDPE: L'UNIVERSALITÉ D'UN SYSTÈME EN POLYÉTHYLÈNE HAUTE DENSITÉ POUR L'ÉVACUATION

### CHARAKTERYSTYKA

- Mała ilość odpadów dzięki całkowitemu zużyciu rur.
- Wysoka odporność połączeń dzięki metodzie zgrzewania doczołowego lub elektrooporowego.
- Elastyczny materiał, charakteryzujący się wysoką odpornością na niskie temperatury.
- Odporność na chwilowe przepływy medium w wysokich temperaturach, do 95°C.
- Możliwość prefabrykacji, dzięki znakom odniesienia na wszystkich rurach i kształtkach.
- Szeroka gama specjalnych kształtek i złączek, umożliwiających wykonanie dowolnej instalacji.
- Części systemu i specjalne elementy są łatwo prefabrykowane.
- Wysoka odporność chemiczna na substancje rozpuszczone w ściekach domowych i przemysłowych.
- Produkt, podlega całkowitemu recyklingowi, a procesy produkcyjne wykorzystywane do jego produkcji są oparte na zasadach Green Building.

### CHARACTERISTICS

- Pipes are used in their entirety without generating leftover material.
- High resistance joints thanks to welding of the elements.
- Ductile material characterised by a high resistance at low temperatures.
- Resistance to intermittent discharges at temperatures as high as 95°C.
- Systems can be prefabricated thanks to the reference marks on all pipes and fittings.
- Wide range of special pieces that allow any type of system to be constructed.
- System parts and special pieces are easily prefabricated.
- High chemical resistance to the substances dissolved in civil and industrial waste waters.
- The product, its recyclability and the production processes used are based on the Green Building principles.

### CARACTERISTIQUES

- Utilisation totale du tube sans possibilité de chutes.
- Grande résistance des jonctions grâce à la soudure des éléments.
- Grande résistance à des températures très basses.
- Résistance aux évacuations pour des températures jusqu'à 95°C.
- Possibilité de pré fabrication pour réduire les temps de montage sur site et possibilité de réaliser des pièces spéciales pour applications et solutions particulières.
- Grande résistance chimique par rapport aux substances présentes dans les évacuations domestiques et industrielles.
- Le produit est recyclable et les process de production sont conformes aux principes Green Building dans le respect de l'environnement et protection des ressources.

# ASORTYMENT KANALIZACJI HDPE

HDPE WASTE RANGE

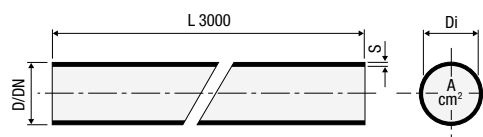
GAMME ÉVACUATION HDPE

## Rura HDPE

L 3000 mm

HDPE pipe L 3000 mm

Tube HDPE L 3000 mm



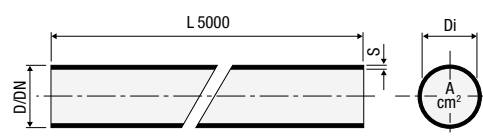
KOD	D	DN	Di	S	SDR	Serie	A cm <sup>2</sup>	PN	kg/m	□	▼	CL	pln/m
VS0301000	32	30	26	3	26/33	12,5/16	5,3	10	0,287	150	50	PE01	11,37
VS0301001	40	40	34	3	26/33	12,5/16	9	8	0,367	150	50	PE01	13,86
VS0301003	50	50	44	3	26/33	12,5/16	15,2	6,4	0,461	150	50	PE01	17,14
VS0301004	56	56	50	3	26/33	12,5/16	19,6	5,7	0,526	120	40	PE01	20,73
VS0301005	63	60	57	3	26/33	12,5/16	25,4	5	0,586	105	35	PE01	22,29
VS0301007	75	70	69	3	26/33	12,5/16	37,3	4,1	0,722	90	30	PE01	26,73
VS0301009	90	90	83	3,5	26	12,5	54,1	4	1,021	60	20	PE01	37,13
VS0301011	110	100	101,4	4,3	26	12,5	80,7	4	1,465	45	15	PE01	55,44
VS0301013	125	125	115,2	4,9	26	12,5	104,5	4	1,859	30	10	PE01	71,25
VS0301015	160	150	147,6	6,2	26	12,5	171,1	4	3,067	30	10	PE01	118,73

## Rura HDPE

L 5000 mm

HDPE pipe L 5000 mm

Tube HDPE L 5000 mm

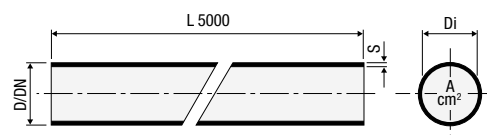


KOD	D	DN	Di	S	SDR	Serie	A cm <sup>2</sup>	PN	kg/m	□	▼	CL	pln/m
VS0300001	32	30	26	3	26/33	12,5/16	5,3	10	0,288	310	62	PE01	11,37
VS0300003	40	40	34	3	26/33	12,5/16	9	8	0,374	550	110	PE01	13,86
VS0300005	50	50	44	3	26/33	12,5/16	15,2	6,4	0,467	430	86	PE01	17,14
VS0300006	56	56	50	3	26/33	12,5/16	19,6	5,7	0,529	490	98	PE01	20,73
VS0300007	63	60	57	3	26/33	12,5/16	25,4	5	0,593	330	66	PE01	22,29
VS0300009	75	70	69	3	26/33	12,5/16	37,3	4,1	0,726	290	58	PE01	26,73
VS0300011	90	90	83	3,5	26	12,5	54,1	4	1,018	290	58	PE01	37,13
VS0300013	110	100	101,4	4,3	26	12,5	80,7	4	1,470	285	57	PE01	55,44
VS0300015	125	125	115,2	4,9	26	12,5	104,5	4	1,885	170	34	PE01	71,25
VS0300017	160	150	147,6	6,2	26	12,5	171,1	4	3,080	50	10	PE01	118,73
VS0300019	200	200	187,6	6,2	33	16	276,4	3,2	3,806	50	10	PE01	150,62
VS0300021	250	250	234,4	7,8	33	16	431,5	3,2	5,808	40	8	PE01	232,82
VS0300023	315	300	295,4	9,8	33	16	685,3	3,2	9,560	30	6	PE01	354,37

## Rura HDPE L 5000 mm, SDR 26

HDPE pipe L 5000 mm,  
SDR 26

Tube HDPE L 5000 mm,  
SDR 26

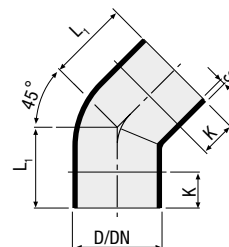


KOD	D	DN	Di	S	A cm <sup>2</sup>	PN	kg/m	□	▼	CL	pln/m
VS0300119	200	200	184,60	7,7	267,50	4	4,800	70	14	PE01	182,44
VS0300121	250	250	230,80	9,6	418,16	4	7,618	55	11	PE01	287,03
VS0300123	315	315	290,80	12,1	663,83	4	12,300	30	6	PE01	426,24

## Kolano 45°

45° bend

Coude 45°

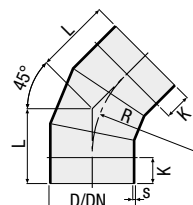
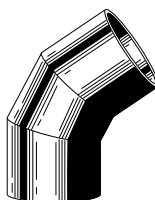


KOD	D	DN	S	L <sub>1</sub>	K	kg	☐	☐	☐	HxLxP	CL	pln/szt
VS0306001	32	30	3	37	20	0,022	50	400	4000	1130x800x1200	PE02	8,42
VS0306003	40	40	3	45	20	0,032	50	400	2400	1060x800x1200	PE02	8,87
VS0306005	50	50	3	45	20	0,041	40	320	1920	1060x800x1200	PE02	9,36
VS0306006	56	56	3	45	20	0,047	30	240	1440	1060x800x1200	PE02	12,90
VS0306007	63	60	3	50	20	0,058	40	320	1600	1180x800x1200	PE02	13,42
VS0306009	75	70	3	50	20	0,070	25	200	1000	1180x800x1200	PE02	21,25
VS0306011	90	90	3,5	55	20	0,113	20	160	480	1015x800x1200	PE02	33,57
VS0306013	110	100	4,3	60	25	0,175	25	100	400	1050x800x1200	PE02	36,10
VS0306015	125	125	4,9	65	25	0,244	15	60	240	1050x800x1200	PE02	44,49
VS0306017	160	150	6,2	69	20	0,428	1	-	160	930x800x1200	PE02	150,92

## Kolano 45° o dużym promieniu

45° long radius bend

Coude 45° grand rayon



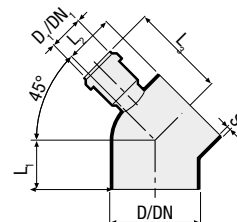
KOD	D	DN	S	L	R	K	kg	☐	☐	☐	HxLxP	CL	pln/szt
VS0306019 *	200	200	6,2	217	230	125	1,611	1	-	32	930x800x1200	PE02	301,67
VS0306021 *	250	250	7,8	231	270	125	2,674	1	-	18	930x800x1200	PE02	423,11
VS0306023 *	315	300	9,8	249	325	125	4,628	1	-	10	930x800x1200	PE02	556,32

\* Segmentowe. - Segmented. - A segments.

## Kolano 45° z odejściem kielichowym

45° bend with socket branch

Coude 45° avec dérivation à emboîtement



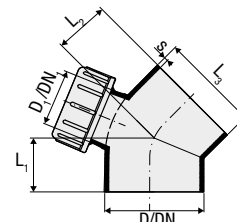
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	kg				HxLxP	CL	pln/szt
VS0305003 *	90/40	90/40	3,5	55	45	100	0,148	20	160	480	1015x800x1200	PE02	90,00
VS0305001	110/40	100/40	4,3	60	55	110	0,211	20	80	320	1050x800x1200	PE02	94,46
VS0305005	110/50	100/50	4,3	60	55	110	0,218	20	80	320	1210x800x1200	PE02	94,24

\* Zgrzewane. - Welded.- Dérivation soudée.

## Kolano 45° z rewizją D 63

45° bend with 63 mm rodding eye

Coude 45° avec bouchon à visser D 63



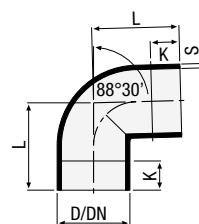
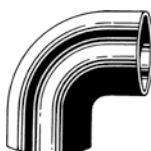
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	kg		CL	pln/szt
VS0306991	110/63	100/60	4,3	60	60	110	0,277	1	PE02	122,26

Zgrzewane. - Welded.- Dérivation soudée.

## Kolano 88°30'

88°30' bend

Coude 88°30'

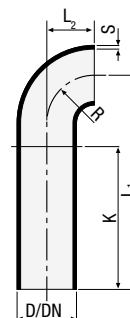


KOD	D	DN	S	L	K	kg				HxLxP	CL	pln/szt
VS0304000	32	30	3	48	20	0,027	50	400	4000	1130x800x1200	PE02	8,42
VS0304001	40	40	3	50	20	0,034	50	400	2400	1060x800x1200	PE02	8,87
VS0304003	50	50	3	60	20	0,051	30	240	1440	1060x800x1200	PE02	9,46
VS0304004	56	56	3	65	20	0,058	30	240	1440	1180x800x1200	PE02	12,90
VS0304005	63	60	3	70	20	0,074	30	240	1200	1180x800x1200	PE02	13,42
VS0304007	75	70	3	75	20	0,095	20	160	800	1180x800x1200	PE02	21,92
VS0304009	90	90	3,5	80	20	0,132	15	120	600	1180x800x1200	PE02	33,51
VS0304011	110	100	4,3	95	25	0,232	20	80	320	1210x800x1200	PE02	36,95
VS0304013	125	125	4,8	102	35	0,355	15	60	180	1210x800x1200	PE02	82,87
VS0304015	160	150	6,2	123	35	0,684	1	-	90	930x800x1200	PE02	188,85

## Kolano 90°

90° long radius bend

Coude 90°

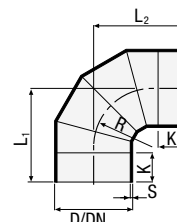
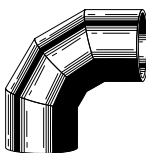


KOD	D	DN	S	L <sub>1</sub>	L <sub>2</sub>	R	K	kg				HxLxP	CL	pln/szt
VS0302003	40	40	3	150	30	30	120	0,061	50	400	2000	1180x800x1200	PE02	9,24
VS0302005	50	50	3	180	40	40	140	0,091	25	200	1200	1180x800x1200	PE02	9,85
VS0302006	56	56	3	210	40	40	170	0,117	25	200	1000	1180x800x1200	PE02	15,24
VS0302007	63	60	3	210	50	50	160	0,140	20	160	480	1015x800x1200	PE02	16,59
VS0302009	75	70	3	210	70	70	140	0,164	25	100	400	1050x800x1200	PE02	26,37
VS0302011	90	90	3,5	240	90	90	150	0,288	15	60	240	1050x800x1200	PE02	36,38
VS0302013	110	100	4,3	270	100	100	170	0,449	10	40	160	1050x800x1200	PE02	43,35
VS0302015	125	125	4,9	200	110	110	90	0,489	10	40	160	1210x800x1200	PE02	50,92
VS0302017	160	150	6,2	140	140	140	-	0,713	1	-	90	930x800x1200	PE02	156,51

## Kolano 90° o dużym promieniu

90° long radius bend

Coude 90° grand rayon

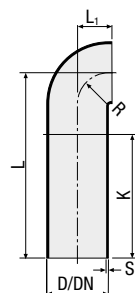


KOD	D	DN	S	L <sub>1</sub>	L <sub>2</sub>	R	K	kg				HxLxP	CL	pln/szt
VS0302019 *	200	200	6,2	248	248	175	75	1,895	1	-	25	930x800x1200	PE02	440,40
VS0302021 *	250	250	7,8	324	324	230	100	3,242	1	-	14	930x800x1200	PE02	900,49
VS0302023 *	315	300	9,8	348	348	245	105	5,693	1	-	7	930x800x1200	PE02	1 267,98

\* Segmentowe. - Segmented. - A segments.

### Kolano 90° o małym promieniu

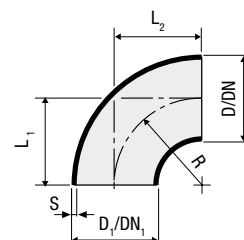
90° short radius bend  
 Coude mural court 90°



KOD	D	DN	S	L	L <sub>1</sub>	R	K	kg				HxLxP	CL	pln/szt
VS0359001	90	90	3,5	270	50	50	200	0,297	15	60	240	1050x800x1200	PE02	38,36
VS0359003	110	100	4,3	300	60	60	220	0,494	10	40	160	1050x800x1200	PE02	43,94

### Kolano 90° redukcyjne

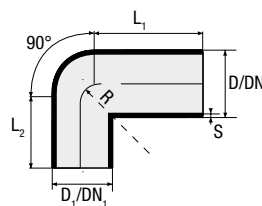
90° reducing bend  
 Coude réduit 90°



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	L <sub>1</sub>	L <sub>2</sub>	R	kg				HxLxP	CL	pln/szt
VS0308001	50/40	50/40	3	40	40	40	0,027	40	320	3200	1130x800x1200	PE02	12,35
VS0308003	63/50	60/50	3	50	50	50	0,044	20	160	1600	1130x800x1200	PE02	25,85

### Kolano 90° redukcyjne wydłużone

90° extended reducing bend  
 Coude réduit 90° prolongé



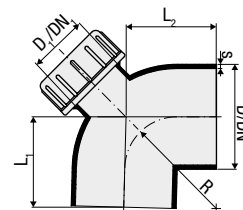
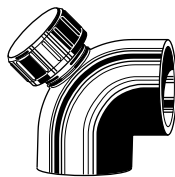
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	L <sub>1</sub>	L <sub>2</sub>	R	kg				HxLxP	CL	pln/szt
VS0308007	56/40	56/40	3	100	70	47	0,067	20	160	960	1050x800x1200	PE02	18,26
VS0308009	56/50	56/50	3	100	70	34,5	0,073	20	160	960	1006x800x1200	PE02	18,26



### Kolano 88°30' z rewizją D 63

88°30' bend with 63 mm rodding eye

Coude 88°30' avec bouchon à visser D 63



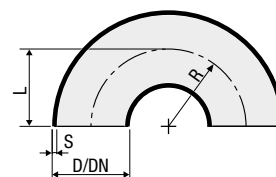
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	L <sub>1</sub>	L <sub>2</sub>	R	kg		CL	pln/szt
VS0304991	110/63	100/60	4,3	95	95	55	0,337	1	PE02	126,14

Zgrzewane. - Welded.- Dérivation soudée.

### Kolano 180°

180° bend

Coude 180°



KOD	D	DN	S	L	R	kg				HxLxP	CL	pln/szt
VS0307001 *	40	40	3	40	40	0,054	20	160	960	1060x800x1200	PE02	30,52
VS0307003 *	50	50	3	49	50	0,074	20	160	960	1060x800x1200	PE02	30,09
VS0307004 •	56	56	3	49	49	0,081	20	160	960	1060x800x1200	PE02	47,01
VS0307009 •	90	90	3,5	90	88	0,325	10	40	160	1050x800x1200	PE02	81,56

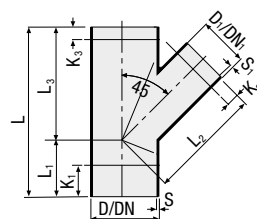
\* Zgrzewane. - Welded.- Pièces soudée.

• Wypzedaż. - Sell out. - Fin de stock.





## Trójnik redukcyjny 45°

45° reducing branch

Embranchement réduit 45°



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	K <sub>1</sub>	K <sub>2</sub>	K <sub>3</sub>	kg				HxLxP	CL	pln/szt
VS0310001	40/32	40/30	3	3	135	45	90	-	25	30	30	0,061	50	400	2000	1180x800x1200	PE02	17,68
VS0310003	50/40	50/40	3	3	165	55	110	-	40	45	45	0,097	20	160	960	1180x800x1200	PE02	19,42
VS0310004	56/50	56/50	3	3	180	60	120	-	40	30	30	0,126	20	160	800	1180x800x1200	PE02	23,45
VS0310005	63/40	60/40	3	3	195	65	130	-	40	30	30	0,136	15	120	600	1180x800x1200	PE02	25,19
VS0310007	63/50	60/50	3	3	195	65	130	-	40	30	30	0,151	15	120	600	1180x800x1200	PE02	25,19
VS0310008	63/56	60/56	3	3	195	65	130	-	40	25	25	0,146	15	120	600	1180x800x1200	PE02	25,19
VS0310009	75/40	70/40	3	3	210	70	140	-	60	30	40	0,181	25	100	400	1050x800x1200	PE02	30,13
VS0310011	75/50	70/50	3	3	210	70	140	-	60	30	40	0,184	25	100	400	1050x800x1200	PE02	30,13
VS0310012	75/56	70/56	3	3	210	70	140	-	55	25	35	0,181	25	100	400	1050x800x1200	PE02	30,13
VS0310014	75/63	70/60	3	3	210	70	140	-	55	25	35	0,189	25	100	400	1050x800x1200	PE02	57,62
VS0310013	90/40	90/40	3,5	3	240	80	160	-	80	40	50	0,261	15	60	240	1050x800x1200	PE02	39,24
VS0310015	90/50	90/50	3,5	3	240	80	160	-	80	40	50	0,267	15	60	240	1050x800x1200	PE02	39,24
VS0310006	90/56	90/56	3,5	3	240	80	160	-	75	35	45	0,279	20	80	320	1210x800x1200	PE02	57,62
VS0310018	90/63	90/60	3,5	3	240	80	160	-	65	30	25	0,281	15	60	240	1050x800x1200	PE02	57,62
VS0310010	90/75	90/70	3,5	3	240	80	160	-	65	30	25	0,285	15	60	240	1210x800x1200	PE02	57,62
VS0310017	110/40	100/40	4,3	3	270	90	180	-	95	50	55	0,441	10	40	160	1050x800x1200	PE02	49,15
VS0310019	110/50	100/50	4,3	3	270	90	180	-	95	50	55	0,432	10	40	160	1050x800x1200	PE02	49,15
VS0310020	110/56	100/56	4,3	3	270	90	180	-	90	40	45	0,447	10	40	160	1050x800x1200	PE02	49,15
VS0310021	110/63	100/60	4,3	3	270	90	180	-	80	35	40	0,448	10	40	160	1050x800x1200	PE02	49,15
VS0310023	110/75	100/70	4,3	3	270	90	180	-	75	30	35	0,471	10	40	160	1210x800x1200	PE02	49,15
VS0310025	110/90	100/90	4,3	3,5	270	90	180	-	65	25	30	0,493	10	40	160	1210x800x1200	PE02	49,15
VS0310027	125/40	125/40	4,9	3	300	100	200	-	95	45	50	0,612	10	40	120	1054x800x1200	PE02	54,91
VS0310029	125/50	125/50	4,9	3	300	100	200	-	95	45	50	0,620	10	40	120	1054x800x1200	PE02	54,91
VS0310030	125/56	125/56	4,9	3	300	100	200	-	95	45	50	0,618	10	40	80	950x800x1200	PE02	54,91
VS0310031	125/63	125/60	4,9	3	300	100	200	-	95	40	50	0,630	10	40	120	1054x800x1200	PE02	54,91
VS0310033	125/75	125/70	4,9	3	300	100	200	-	95	40	50	0,635	10	40	120	1054x800x1200	PE02	54,91
VS0310035	125/90	125/90	4,9	3,5	300	100	200	-	80	35	30	0,648	10	40	80	950x800x1200	PE02	54,91
VS0310037	125/110	125/100	4,9	4,3	300	100	200	-	70	25	25	0,698	10	40	80	950x800x1200	PE02	54,91
VS0310067 *	160/40	150/40	6,2	3	375	125	250	-	150	90	120	1,197	1	-	-	950x800x1200	PE02	325,63
VS0310068 *	160/50	150/50	6,2	3	375	125	250	-	150	90	110	1,196	1	-	-	950x800x1200	PE02	325,63
VS0310069 *	160/56	150/56	6,2	3	375	125	250	-	145	90	110	1,212	1	-	-	950x800x1200	PE02	325,63
VS0310070 *	160/63	150/60	6,2	3	375	125	250	-	140	85	105	1,194	1	-	-	950x800x1200	PE02	325,63
VS0310071 *	160/75	150/70	6,2	3	375	125	250	-	130	80	100	1,223	1	-	-	950x800x1200	PE02	338,34
VS0310072 *	160/90	150/90	6,2	3,5	375	125	250	-	120	70	90	1,272	1	-	-	950x800x1200	PE02	338,34
VS0310039	160/110	150/100	6,2	4,3	375	125	250	-	110	45	55	1,259	1	-	50	930x800x1200	PE02	225,02

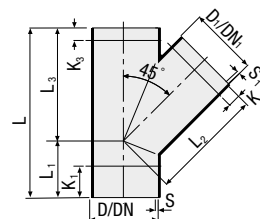
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	K <sub>1</sub>	K <sub>2</sub>	K <sub>3</sub>	kg				HxLxP 	CL	pln/szt
VS0310041	160/125	150/125	6,2	4,9	375	125	250	-	100	40	50	1,312	1	-	45	930x800x1200	PE02	225,02
VS0310074 *	200/40	200/40	6,2	3	490	180	360	310	232	180	160	1,951	1	-	-	930x800x1200	PE02	483,30
VS0310075 *	200/50	200/50	6,2	3	490	180	360	310	225	175	155	1,997	1	-	-	930x800x1200	PE02	483,30
VS0310076 *	200/56	200/56	6,2	3	490	180	360	310	220	170	150	1,994	1	-	-	930x800x1200	PE02	483,30
VS0310077 *	200/63	200/60	6,2	3	490	180	360	310	215	170	145	2,032	1	-	-	930x800x1200	PE02	483,30
VS0310078 *	200/75	200/70	6,2	3	540	180	360	360	210	160	185	2,246	1	-	20	930x800x1200	PE02	504,55
VS0310079 *	200/90	200/90	6,2	3,5	540	180	360	360	200	155	175	2,328	1	-	-	930x800x1200	PE02	504,55
VS0310043 *	200/110	200/100	6,2	4,3	540	180	360	-	150	140	65	2,352	1	-	20	930x800x1200	PE02	472,56
VS0310045 *	200/125	200/125	6,2	4,9	540	180	360	-	140	130	55	2,414	1	-	20	930x800x1200	PE02	479,48
VS0310047 *	200/160	200/150	6,2	6,2	540	180	360	-	115	85	35	2,615	1	-	18	930x800x1200	PE02	505,43
VS0310081 *	250/40	250/40	7,7	3	660	220	400	440	300	185	270	3,945	1	-	10	930x800x1200	PE02	660,44
VS0310082 *	250/50	250/50	7,7	3	660	220	400	440	290	180	260	4,027	1	-	10	930x800x1200	PE02	660,44
VS0310083 *	250/56	250/56	7,7	3	660	220	400	440	285	175	255	4,019	1	-	10	930x800x1200	PE02	660,44
VS0310084 *	250/63	250/60	7,7	3	660	220	400	440	280	175	250	3,992	1	-	10	930x800x1200	PE02	660,44
VS0310085 *	250/75	250/70	7,7	3	660	220	400	440	275	165	245	3,998	1	-	10	930x800x1200	PE02	695,29
VS0310086 *	250/90	250/90	7,7	3,5	660	220	400	440	265	160	235	4,143	1	-	10	930x800x1200	PE02	695,29
VS0310049 *	250/110	250/100	7,8	4,3	660	220	440	-	215	185	150	4,215	1	-	10	930x800x1200	PE02	685,26
VS0310051 *	250/125	250/125	7,8	4,9	660	220	440	-	205	175	140	4,283	1	-	10	930x800x1200	PE02	685,26
VS0310053 *	250/160	250/150	7,8	6,2	660	220	440	-	180	130	50	4,594	1	-	10	930x800x1200	PE02	722,31
VS0310055 *	250/200	250/200	7,8	6,2	660	220	440	-	150	50	90	4,759	1	-	10	930x800x1200	PE02	765,33
VS0310088 *	315/40	300/40	9,7	3	840	280	500	560	390	240	355	8,570	1	-	-	930x800x1200	PE02	911,85
VS0310089 *	315/50	300/50	9,7	3	840	280	500	560	385	235	350	7,948	1	-	6	930x800x1200	PE02	911,85
VS0310090 *	315/56	300/56	9,7	3	840	280	500	560	380	235	345	8,570	1	-	-	930x800x1200	PE02	911,85
VS0310091 *	315/63	315/60	9,7	3	840	280	500	560	375	225	340	7,941	1	-	-	930x800x1200	PE02	911,85
VS0310092 *	315/75	300/70	9,7	3	840	280	500	560	365	220	330	8,012	1	-	5	930x800x1200	PE02	911,85
VS0310093 *	315/90	300/90	9,7	3,5	840	280	500	560	355	215	320	8,100	1	-	-	930x800x1200	PE02	911,85
VS0310057 *	315/110	300/100	9,8	4,3	840	280	560	-	305	260	235	8,273	1	-	4	930x800x1200	PE02	911,85
VS0310059 *	315/125	300/125	9,8	4,9	840	280	560	-	290	250	220	8,345	1	-	4	930x800x1200	PE02	911,85
VS0310061 *	315/160	300/150	9,8	6,2	840	280	560	-	270	205	200	8,768	1	-	4	930x800x1200	PE02	930,25
VS0310063 *	315/200	300/200	9,8	6,2	840	280	560	-	240	125	175	8,849	1	-	4	930x800x1200	PE02	957,90
VS0310065 *	315/250	300/250	9,8	7,8	840	280	560	-	205	130	140	9,359	1	-	4	930x800x1200	PE02	1 013,18

\* Zgrzewany. - Welded. - Dérivation soudée.

## Trójnik 45°

45° branch

Embranchement 45°



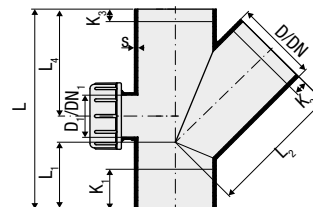
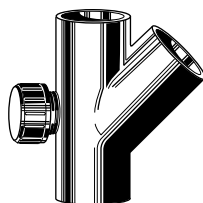
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S/S <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub> /L <sub>3</sub>	K <sub>1</sub>	K <sub>2</sub>	K <sub>3</sub>	kg				HxLxP	CL	pln/szt
VS0309001	32	30	3	110	35	75	20	20	20	0,044	50	400	2400	1060x800x1200	PE02	16,59
VS0309003	40	40	3	135	45	90	25	30	30	0,069	50	400	2000	1180x800x1200	PE02	17,68
VS0309005	50	50	3	165	55	110	35	20	20	0,105	20	160	960	1180x800x1200	PE02	19,42
VS0309006	56	56	3	180	60	120	40	25	25	0,124	20	160	800	1180x800x1200	PE02	23,45
VS0309007	63	60	3	195	65	130	40	25	25	0,151	15	120	600	1180x800x1200	PE02	26,58
VS0309009	75	70	3	210	70	140	40	25	25	0,190	20	80	320	1050x800x1200	PE02	30,13
VS0309011	90	90	3,5	240	80	160	50	20	20	0,312	15	60	240	1210x800x1200	PE02	39,24
VS0309013	110	100	4,3	270	90	180	55	20	20	0,491	10	40	120	1054x800x1200	PE02	49,12
VS0309015	125	125	4,9	300	100	200	60	20	20	0,773	10	40	80	950x800x1200	PE02	58,51
VS0309017	160	150	6,2	375	125	250	75	25	25	1,479	1	-	45	930x800x1200	PE02	225,02
VS0309019 *	200	200	6,2	540	180	360	85	10	10	2,811	1	-	16	930x800x1200	PE02	537,99
VS0309021 *	250	250	7,8	660	220	440	115	55	55	5,166	1	-	8	930x800x1200	PE02	838,32
VS0309023 *	315	300	9,8	840	280	560	160	95	95	10,254	1	-	3	930x800x1200	PE02	1 125,01

\* Zgrzewany. - Welded.- Dérivation soudée.

## Trójnik 45° z rewizją D 63

45° branch with 63 mm  
 rodding eye

Embranchement 45° avec  
 bouchon à visser D 63



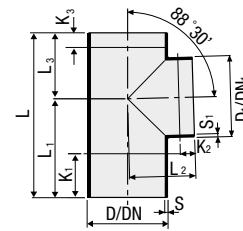
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	L	L <sub>1</sub>	L <sub>2</sub> /L <sub>3</sub>	L <sub>4</sub>	K <sub>1</sub>	K <sub>2</sub>	K <sub>3</sub>	kg		CL	pln/szt
VS0309991	110/63	100/60	4,3	270	90	180	145	55	20	20	0,605	1	PE02	131,84

Zgrzewany. - Welded.- Dérivation soudée.

## Trójnik 88°30'

88°30' branch

Embranchement 88°30'



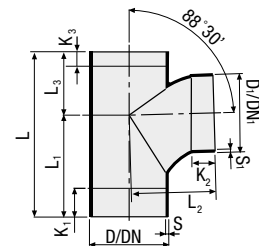
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S/S <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub> /L <sub>3</sub>	K <sub>1</sub>	K <sub>2</sub>	K <sub>3</sub>	kg				HxLxP	CL	pln/szt
VS0312001	32	30	3	85	50	35	25	10	10	0,028	80	640	3840	1060x800x1200	PE02	16,59
VS0312003	40	40	3	130	75	55	45	20	20	0,057	50	400	2000	1180x800x1200	PE02	17,68
VS0312005	50	50	3	150	90	60	55	25	25	0,081	30	240	1200	1180x800x1200	PE02	19,42
VS0312006	56	56	3	175	105	70	65	30	30	0,109	25	200	600	1015x800x1200	PE02	23,45
VS0312007	63	60	3	175	105	70	60	25	25	0,124	20	160	800	1180x800x1200	PE02	25,19
VS0312009	75	70	3	175	105	70	55	25	25	0,146	15	120	600	1180x800x1200	PE02	30,13
VS0312011	90	90	3,5	200	120	80	65	25	25	0,132	20	80	320	1050x800x1200	PE02	39,24
VS0312013	110	100	4,3	225	135	90	65	20	20	0,361	15	60	240	1210x800x1200	PE02	49,15
VS0312015	125	125	4,9	250	150	100	70	20	20	0,502	15	60	120	950x800x1200	PE02	54,91
VS0312017	160	150	6,2	350	210	140	105	30	30	1,175	1	-	50	930x800x1200	PE02	225,02
VS0312019 *	200	200	6,2	360	180	180	25	30	25	1,631	1	-	25	930x800x1200	PE02	399,32
VS0312021 *	250	250	7,8	440	220	220	40	40	40	3,064	1	-	15	930x800x1200	PE02	573,51
VS0312023 *	315	300	9,8	560	280	280	70	65	70	6,198	1	-	5	930x800x1200	PE02	743,59

\* Zgrzewany. - Welded.- Dérivation soudée.

## Trójnik profilowany 88°30'

88°30' sweep branch

Té PDB 88°30'

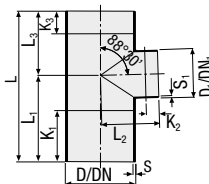
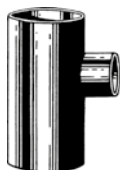


KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S/S <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	K <sub>1</sub>	K <sub>2</sub>	K <sub>3</sub>	kg				HxLxP	CL	pln/szt
VS0312025	110/110	100/100	4,3	230	140	120	90	90	40	20	0,420	15	60	120	950x800x1200	PE02	71,87

## Trójnik redukcyjny 88°30'

88°30' reducing branch

Embranchement réduit 88°30'



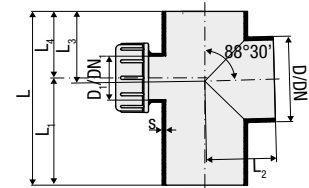
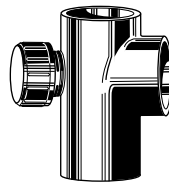
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub> /L <sub>3</sub>	K <sub>1</sub>	K <sub>2</sub>	K <sub>3</sub>	kg				HxLxP	CL	pln/szt
VS0313001	40/32	40/30	3	3	130	75	55	50	20	25	0,052	50	400	2000	1180x800x1200	PE02	17,68
VS0313003	50/40	50/40	3	3	150	90	60	60	25	30	0,080	25	200	1200	1180x800x1200	PE02	19,42
VS0313002	56/50	56/50	3	3	175	105	70	70	30	35	0,107	25	200	600	1015x800x1200	PE02	23,38
VS0313008	63/40	60/40	3	3	175	105	70	70	30	35	0,116	20	160	800	1180x800x1200	PE02	32,19
VS0313012	63/50	60/50	3	3	175	105	70	70	30	35	0,122	20	160	480	1015x800x1200	PE02	32,19
VS0313004	75/40	70/40	3	3	175	105	70	75	25	35	0,139	25	100	400	1050x800x1200	PE02	30,13
VS0313005	75/50	70/50	3	3	175	105	70	70	25	35	0,141	20	160	480	1015x800x1200	PE02	30,13
VS0313006	75/56	70/56	3	3	175	105	70	65	25	30	0,141	20	160	480	1015x800x1200	PE02	30,13
VS0313010	75/63	70/60	3	3	175	105	70	60	25	25	0,143	20	160	480	1015x800x1200	PE02	30,13
VS0313007	90/40	90/40	3,5	3	200	120	80	85	25	45	0,202	20	80	320	1050x800x1200	PE02	39,24
VS0313009	90/50	90/50	3,5	3	200	120	80	85	25	45	0,205	20	80	320	1050x800x1200	PE02	39,24
VS0313034	90/56	90/56	3,5	3	200	120	80	85	25	35	0,206	20	80	320	1050x800x1200	PE02	105,52
VS0313028	90/63	90/60	3,5	3	200	120	80	75	25	35	0,203	20	80	320	1050x800x1200	PE02	105,52
VS0313036	90/75	90/70	3,5	3	200	120	80	70	25	30	0,210	20	80	320	1050x800x1200	PE02	105,52
VS0313011	110/40	100/40	4,3	3	225	135	90	100	25	60	0,336	15	60	240	1210x800x1200	PE02	49,15
VS0313013	110/50	100/50	4,3	3	225	135	90	95	25	50	0,336	15	60	240	1050x800x1200	PE02	49,15
VS0313014	110/56	100/56	4,3	3	225	135	90	90	25	45	0,340	15	60	240	1210x800x1200	PE02	49,15
VS0313015	110/63	100/60	4,3	3	225	135	90	95	25	35	0,337	15	60	240	1050x800x1200	PE02	49,15
VS0313017	110/75	100/70	4,3	3	225	135	90	85	25	35	0,340	15	60	240	1210x800x1200	PE02	49,15
VS0313019	110/90	100/90	4,3	3,5	225	135	90	75	25	30	0,347	15	60	240	1210x800x1200	PE02	49,15
VS0313021	125/110	125/100	4,9	4,3	250	150	100	80	20	30	0,476	15	60	120	950x800x1200	PE02	54,91
VS0313022 *	160/75	150/70	6,2	3	350	210	140	150	25	70	1,210	1	-	55	930x800x1200	PE02	253,73
VS0313023	160/110	150/100	6,2	4,3	350	210	140	135	45	60	1,112	1	-	55	930x800x1200	PE02	225,02
VS0313025	160/125	150/125	6,2	4,9	350	210	140	125	45	50	1,128	1	-	60	930x800x1200	PE02	225,02
VS0313027 *	200/110	200/100	6,2	4,3	360	180	180	70	60	70	1,537	1	-	30	930x800x1200	PE02	383,84
VS0313029 *	200/125	200/125	6,2	4,9	360	180	180	65	60	65	1,514	1	-	30	930x800x1200	PE02	383,84
VS0313031 *	200/160	200/150	6,2	6,2	360	180	180	45	50	45	1,586	1	-	30	930x800x1200	PE02	392,98
VS0313033 *	250/110	250/100	7,8	4,3	440	220	220	110	75	110	2,689	1	-	20	930x800x1200	PE02	536,53
VS0313035 *	250/125	250/125	7,8	4,9	440	220	220	105	75	105	2,743	1	-	20	930x800x1200	PE02	536,53
VS0313037 *	250/160	250/150	7,8	6,2	440	220	220	85	65	85	2,798	1	-	20	930x800x1200	PE02	549,48
VS0313039 *	250/200	250/200	7,8	6,2	440	220	220	65	60	65	2,963	1	-	15	930x800x1200	PE02	557,36
VS0313041 *	315/110	300/100	9,8	4,3	560	280	280	170	100	170	5,431	1	-	11	930x800x1200	PE02	689,32
VS0313043 *	315/125	300/125	9,8	4,9	560	280	280	165	100	165	5,271	1	-	10	930x800x1200	PE02	693,16
VS0313045 *	315/160	300/150	9,8	6,2	560	280	280	145	90	145	5,714	1	-	7	930x800x1200	PE02	702,85
VS0313047 *	315/200	300/200	9,8	6,2	560	280	280	120	65	120	5,709	1	-	5	930x800x1200	PE02	712,12
VS0313049 *	315/250	300/250	9,8	7,8	560	280	280	95	65	95	5,863	1	-	9	930x800x1200	PE02	731,18

\* Zgrzewany. - Welded.- Dérivation soudée.

### Trójnik 88°30' z rewizją D 63

88°30' branch with 63 mm rodding eye

Embranchement 88°30' avec bouchon à visser D 63



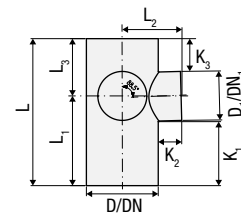
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	L	L <sub>1</sub>	L <sub>2</sub> /L <sub>3</sub>	L <sub>4</sub>	K <sub>1</sub>	K <sub>2</sub>	K <sub>3</sub>	kg		CL	pln/szt
VS0312991	110/63	100/60	4,3	225	135	90	86	65	20	20	0,464	1	PE02	142,99

Zgrzewany. - Welded.- Dérivation soudée.

### Czwórnik narożny 88°30'

88°30' corner branch

Embranchement multiple à 88°30'



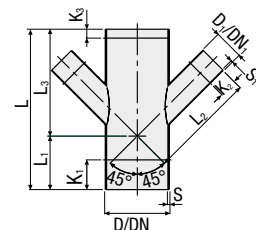
KOD	D <sub>1</sub> /D <sub>2</sub> /D <sub>3</sub>	DN <sub>1</sub> /DN <sub>2</sub> /DN <sub>3</sub>	L	L <sub>1</sub>	L <sub>2</sub> /L <sub>3</sub>	K <sub>1</sub>	K <sub>2</sub>	K <sub>3</sub>	kg		CL	pln/szt
VS0310973	75/50/50	70/50/50	175	105	70	70	25	35	0,157	1	PE02	96,20
VS0310981	110/50/50	100/50/50	225	135	90	95	25	50	0,350	1	PE02	100,03
VS0310982	110/63/63	100/60/60	225	135	90	70	25	45	0,355	1	PE02	105,80
VS0310983	110/75/75	100/70/70	225	135	90	85	25	35	0,356	1	PE02	125,22
VS0310985	110/110/100	100/100/100	225	135	90	65	20	20	0,434	1	PE02	281,84
VS0310987	160/110/110	150/100/100	350	210	140	135	45	60	1,165	1	PE02	308,28

Zgrzewany. - Welded.- Dérivation soudée.

### Czwórnik 45°

45° double reducing branch

Embranchement double 45°

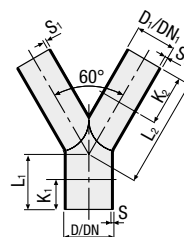


KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub> /L <sub>3</sub>	K <sub>1</sub>	K <sub>2</sub>	K <sub>3</sub>	kg				HxLxP	CL	pln/szt
VS0314001	110/40	100/40	4,3	3	270	90	180	95	30	15	0,430	10	40	120	1054x800x1200	PE02	107,14
VS0314003	110/50	100/50	4,3	3	270	90	180	95	30	15	0,452	10	40	120	1054x800x1200	PE02	107,14
VS0314005	110/110	100/100	4,3	4,3	270	90	180	50	15	15	0,615	5	20	60	1054x800x1200	PE02	107,14

## Trójnik Y 60°

60° Y branch

Embranchement double Y 60°

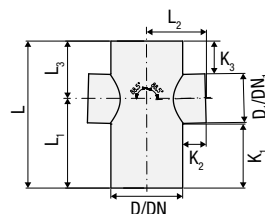
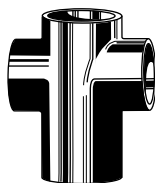


KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	L <sub>1</sub>	L <sub>2</sub>	K <sub>1</sub>	K <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0316001	50/40	50/40	3	3	55	110	40	50	0,094	25	200	1000	1180x800x1200	PE02	22,13
VS0316003	63/50	60/50	3	3	65	130	50	40	0,144	25	100	400	1050x800x1200	PE02	59,55
VS0316011	110/110	100/100	4,3	4,3	90	120	50	-	0,396	10	40	160	1050x800x1200	PE02	86,95

## Czwórnik 88°30'

88°30' double reducing branch

Embranchement double 88°30'



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub> /L <sub>3</sub>	K <sub>1</sub>	K <sub>2</sub>	K <sub>3</sub>	kg		CL	pln/szt
VS0310961	110/50	100/50	225	135	90	95	25	50	0,375	1	PE02	100,03
VS0310962	110/63	100/63	225	135	90	90	25	45	0,385	1	PE02	100,03
VS0310963	110/75	100/70	225	135	90	85	25	35	0,386	1	PE02	125,22
VS0310965	110/110	100/100	225	135	90	65	20	20	0,399	1	PE02	178,64

Zgrzewany. - Welded.- Dérivation soudée.

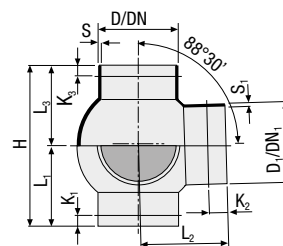
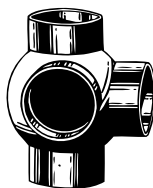


## Czwórnik kulowy 90°

- 2 odgałęzienia

90° 2-way ball branch

Embranchement double à  
boule à 90° 2 dérivation



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	H	L <sub>1</sub> /L <sub>3</sub>	L <sub>2</sub>	K <sub>1</sub> /K <sub>3</sub>	K <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0318015	110/50	100/50	4,3	3	220	105	120	15	15	0,447	5	20	80	1050x800x1200	PE02	148,09
VS0318016	110/56	100/56	4,3	3	220	105	120	15	15	0,446	5	20	80	1050x800x1200	PE02	148,09
VS0318017	110/75	100/70	4,3	3	220	105	120	15	15	0,455	5	20	80	1050x800x1200	PE02	148,09
VS0318020	110/90	100/90	4,3	3,5	220	105	120	15	15	0,458	5	20	80	1050x800x1200	PE02	148,09
VS0318019	110/110	100/100	4,3	4,3	220	105	120	15	15	0,506	5	20	80	1050x800x1200	PE02	148,09
VS0318021	125/50	125/50	4,9	3	220	110	125	15	15	0,586	5	20	80	1050x800x1200	PE02	165,77
VS0318022	125/56	125/56	4,9	3	220	110	125	15	15	0,579	5	20	80	1050x800x1200	PE02	165,77
VS0318023	125/75	125/70	4,9	3	220	110	125	15	15	0,530	5	20	80	1050x800x1200	PE02	165,77
VS0318026	125/90	125/90	4,9	3,5	220	110	125	15	15	0,580	5	20	60	1054x800x1200	PE02	165,77
VS0318025	125/110	125/100	4,9	4,3	220	110	125	15	25	0,608	5	20	60	1054x800x1200	PE02	165,77
VS0318031	125/125	125/125	4,9	4,9	220	110	125	15	25	0,678	5	20	60	1054x800x1200	PE02	165,77
VS0318048	160/110	150/100	6,2	4,3	275	137,5	165	50	50	1,154	1	-	35	930x800x1200	PE02	379,78

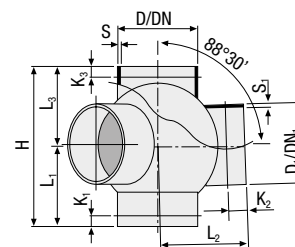
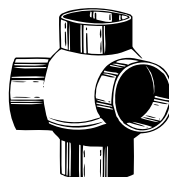
Zgrzewany. - Welded.- Dérivation soudée.

## Kształtka wielorozgałęźna

135°- 2 odgałęzienia

135° 2-way ball branch

Embranchement double à  
boule à 135° 2 dérivation



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	H	L <sub>1</sub> /L <sub>3</sub>	L <sub>2</sub>	K <sub>1</sub> /K <sub>3</sub>	K <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0318033	110/50	100/50	4,3	3	220	105	120	15	15	0,443	5	20	80	1050x800x1200	PE02	148,09
VS0318034	110/56	100/56	4,3	3	220	105	120	15	15	0,443	5	20	80	1210x800x1200	PE02	148,09
VS0318035	110/75	100/70	4,3	3	220	105	120	15	15	0,461	5	20	80	1050x800x1200	PE02	148,09
VS0318036	110/90	100/90	4,3	3,5	220	105	120	15	15	0,460	5	20	80	1050x800x1200	PE02	148,09
VS0318037	110/110	100/100	4,3	4,3	220	105	120	15	25	0,497	5	20	80	1210x800x1200	PE02	148,09
VS0318039	125/50	125/50	4,9	3	220	110	125	15	15	0,555	5	20	80	1050x800x1200	PE02	165,77
VS0318040	125/56	125/56	4,9	3	220	110	125	15	15	0,552	5	20	80	1210x800x1200	PE02	165,77
VS0318041	125/75	125/70	4,9	3	220	110	125	15	15	0,566	5	20	80	1050x800x1200	PE02	165,77
VS0318042	125/90	125/90	4,9	3,5	220	110	125	15	15	0,600	5	20	80	1210x800x1200	PE02	165,77
VS0318043	125/110	125/100	4,9	4,3	220	110	125	15	25	0,623	5	20	80	1210x800x1200	PE02	165,77
VS0318045	125/125	125/125	4,9	4,9	220	110	125	15	25	0,626	5	20	80	1210x800x1200	PE02	165,77
VS0318049	160/110	150/100	6,2	4,3	275	137,5	165	50	50	1,169	1	-	35	930x800x1200	PE02	379,78

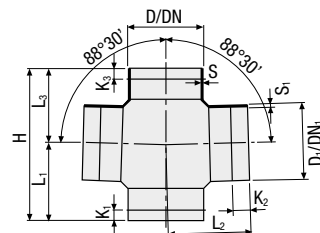
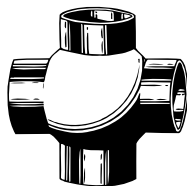
Zgrzewana. - Welded.- Dérivation soudée.

## Kształtka wielorozgałęźna

### 180° - 2 odgałęzienia

180° 2-way ball branch

Embranchement double à  
boule à 180° 2 dériviations



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	H	L <sub>1</sub> /L <sub>3</sub>	L <sub>2</sub>	K <sub>1</sub> /K <sub>3</sub>	K <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0318001	110/50	100/50	4,3	3	220	105	120	15	15	0,479	5	20	80	1050x800x1200	PE02	148,09
VS0318002	110/56	100/56	4,3	3	220	105	120	15	15	0,473	5	20	80	1050x800x1200	PE02	148,09
VS0318003	110/75	100/70	4,3	3	220	105	120	15	15	0,455	5	20	80	1050x800x1200	PE02	148,09
VS0318004	110/90	100/90	4,3	3,5	220	105	120	15	15	0,459	5	20	80	1050x800x1200	PE02	148,09
VS0318005	110/110	100/100	4,3	4,3	220	105	120	15	15	0,502	5	20	80	1050x800x1200	PE02	148,09
VS0318007	125/50	125/50	4,9	3	220	110	125	15	15	0,561	5	20	80	1050x800x1200	PE02	165,77
VS0318008	125/56	125/56	4,9	3	220	110	125	15	15	0,500	5	20	80	1050x800x1200	PE02	165,77
VS0318009	125/75	125/70	4,9	3	220	110	125	15	15	0,583	5	20	80	1050x800x1200	PE02	165,77
VS0318010	125/90	125/90	4,9	3,5	220	110	125	15	15	0,603	5	20	80	1210x800x1200	PE02	165,77
VS0318011	125/110	125/100	4,9	4,3	220	110	125	15	25	0,610	5	20	60	1054x800x1200	PE02	165,77
VS0318013	125/125	125/125	4,9	4,9	220	110	125	15	25	0,677	5	20	80	1210x800x1200	PE02	165,77
VS0318050	160/110	150/100	6,2	4,3	275	137,5	165	50	50	1,100	1	-	35	930x800x1200	PE02	379,78
VS0318060	160/160	150/150	6,2	6,2	275	137,5	165	50	50	1,300	1	-	15	930x800x1200	PE02	519,45

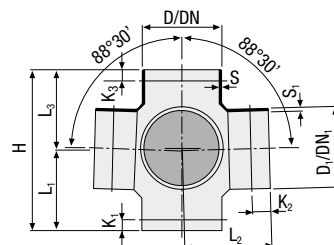
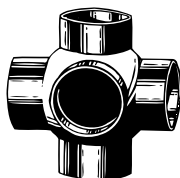
Zgrzewana. - Welded.- Dérivation soudée.

## Kształtka wielorozgałęźna

### 90° - 3 odgałęzienia

90° 3-way ball branch

Embranchement double à  
boule à 90° 3 dériviations



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	H	L <sub>1</sub> /L <sub>3</sub>	L <sub>2</sub>	K <sub>1</sub> /K <sub>3</sub>	K <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0320001	110/50	100/50	4,3	3	220	105	120	15	15	0,315	5	20	80	1050x800x1200	PE02	173,15
VS0320002	110/56	100/56	4,3	3	220	105	120	15	15	0,476	5	20	80	1210x800x1200	PE02	173,15
VS0320003	110/75	100/70	4,3	3	220	105	120	15	15	0,473	5	20	80	1050x800x1200	PE02	173,15
VS0320006	110/90	100/90	4,3	3,5	220	105	120	15	15	0,503	5	20	80	1050x800x1200	PE02	173,15
VS0320005	110/110	100/100	4,3	4,3	220	105	120	15	15	0,537	5	20	80	1050x800x1200	PE02	173,15
VS0320007	125/50	125/50	4,9	3	220	110	125	15	15	0,541	5	20	80	1210x800x1200	PE02	195,17
VS0320008	125/56	125/56	4,9	3	220	110	125	15	15	0,514	5	20	80	1210x800x1200	PE02	195,17
VS0320009	125/75	125/70	4,9	3	220	110	125	15	15	0,516	5	20	80	1210x800x1200	PE02	195,17
VS0320012	125/90	125/90	4,9	3,5	220	110	125	15	15	0,631	5	20	60	1054x800x1200	PE02	195,17
VS0320011	125/110	125/100	4,9	4,3	220	110	125	15	25	0,679	5	20	60	1054x800x1200	PE02	195,17
VS0320013	125/125	125/125	4,9	4,9	220	110	125	15	25	0,737	5	20	40	950x800x1200	PE02	195,17
VS0318055	160/110	150/100	6,2	4,3	275	137,5	165	50	50	1,215	1	-	35	930x800x1200	PE02	458,57

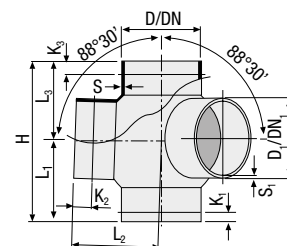
Zgrzewana. - Welded.- Dérivation soudée.

## Kształtka wielorozgałęźna

### 135° - 3 odgałęzienia

135° 3-way ball branch

Embranchement double à  
boule à 135° 3 dérivation



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	H	L <sub>1</sub> /L <sub>3</sub>	L <sub>2</sub>	K <sub>1</sub> /K <sub>3</sub>	K <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0320015	110/50	100/50	4,3	3	220	105	120	15	15	0,462	5	20	60	1054x800x1200	PE02	173,15
VS0320016	110/56	100/56	4,3	3	220	105	120	15	15	0,469	5	20	80	1210x800x1200	PE02	173,15
VS0320017	110/75	100/70	4,3	3	220	105	120	15	15	0,462	5	20	80	1210x800x1200	PE02	173,15
VS0320018	110/90	100/90	4,3	3,5	220	105	120	15	15	0,494	5	20	80	1210x800x1200	PE02	173,15
VS0320019	110/110	100/100	4,3	4,3	220	105	120	15	15	0,370	5	20	80	1210x800x1200	PE02	173,15
VS0320021	125/50	125/50	4,9	3	220	110	125	15	15	0,576	5	20	80	1210x800x1200	PE02	195,17
VS0320022	125/56	125/56	4,9	3	220	110	125	15	15	0,521	5	20	80	1210x800x1200	PE02	195,17
VS0320023	125/75	125/70	4,9	3	220	110	125	15	15	0,579	5	20	80	1210x800x1200	PE02	195,17
VS0320024	125/90	125/90	4,9	3,5	220	110	125	15	15	0,680	5	20	80	1210x800x1200	PE02	195,17
VS0320025	125/110	125/100	4,9	4,3	220	110	125	15	25	0,638	5	20	40	1080x800x1200	PE02	195,17
VS0320027	125/125	125/125	4,9	4,9	220	110	125	15	25	0,664	5	20	40	950x800x1200	PE02	195,17

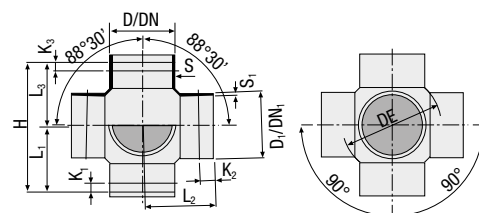
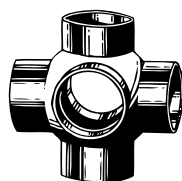
Zgrzewana. - Welded.- Dérivation soudée.

## Kształtka wielorozgałęźna

### 90° - 4 odgałęzienia

90° 4-way ball branch

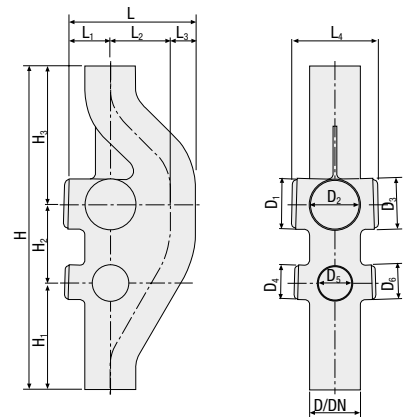
Embranchement double à  
boule à 90° 4 dérivation



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	H	L <sub>1</sub> /L <sub>3</sub>	L <sub>2</sub>	K <sub>1</sub> /K <sub>3</sub>	K <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0322001	110/50	100/50	4,3	3	220	105	120	15	15	0,509	5	20	80	1050x800x1200	PE02	195,59
VS0322002	110/56	100/56	4,3	3	220	105	120	15	15	0,527	5	20	80	1050x800x1200	PE02	195,59
VS0322003	110/75	100/70	4,3	3	220	105	120	15	15	0,505	5	20	80	1210x800x1200	PE02	195,59
VS0322004	110/90	100/90	4,3	3,5	220	105	120	15	15	0,531	5	20	40	950x800x1200	PE02	195,59
VS0322005	110/110	100/100	4,3	4,3	220	105	120	15	15	0,595	5	20	40	950x800x1200	PE02	195,59
VS0322007	125/50	125/50	4,9	3	220	105	125	15	15	0,581	5	20	80	1210x800x1200	PE02	216,63
VS0322008	125/56	125/56	4,9	3	220	105	125	15	15	0,623	5	20	40	950x800x1200	PE02	216,63
VS0322009	125/75	125/70	4,9	3	220	105	125	15	15	0,521	5	20	40	950x800x1200	PE02	216,63
VS0322010	125/90	125/90	4,9	3,5	220	105	125	15	15	0,663	5	20	40	950x800x1200	PE02	216,63
VS0322011	125/110	125/100	4,9	4,3	220	105	125	15	25	0,689	5	20	40	950x800x1200	PE02	216,63
VS0322013	125/125	125/125	4,9	4,3	220	105	125	15	25	0,779	5	20	80	954x800x1200	PE02	220,66

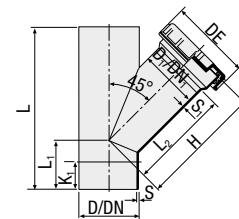
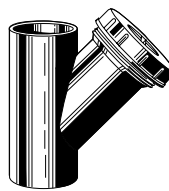
Zgrzewana. - Welded.- Dérivation soudée.

**VBF**  
**Rozgałęzienie**  
**kanalizacyjno-**  
**odpowietrzające**  
Ventilation branch  
Embranchement multi  
raccordements



KOD	D	DN	D <sub>1/2/3</sub>	D <sub>4/5/6</sub>	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	H	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	kg		HxLxP	CL	pln/szt
VS0316175	110	100	110	75	275	90	130	55	188	700	230	170	300	2,855	1	930x800x1200	PE02	361,27
VS0316179	160	150	110	75	310	90	160	60	190	1010	460	170	380	5,139	1	930x800x1200	PE02	1 349,39

**Czyszczak skośny 45°**  
45° access pipe with screw cap  
Embranchement de visite  
45° avec bouchon à visser

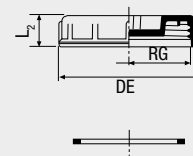
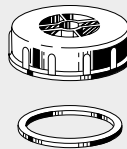


KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	H	DE	K <sub>1</sub>	kg		HxLxP	CL	pln/szt
VS0348110	110/110	100/100	4,3	4,3	270	90	180	220	150	55	0,732	1	930x800x1200	PE02	152,45
VS0348125	125/110	125/100	4,9	4,3	300	100	200	230	150	70	0,939	1	930x800x1200	PE02	210,83
VS0348160	160/110	150/100	6,2	4,3	375	125	275	280	150	110	1,497	1	930x800x1200	PE02	440,21

Zgrzewany. - Welded.- Dérivation soudée.

### Części zamienne - Spare parts - Pièces de rechange

**Nakrętka z uszczelką**  
Short end cap with seal  
Bouchon de fermeture  
type bas avec joint



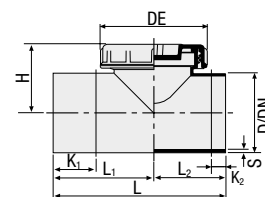
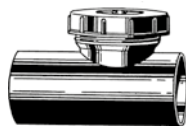
KOD	D/DN	RG	DE	L <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0340210	110/100	132	149	33	0,138	10	80	800	1130x800x1200	PE02	28,84

## Czyszczak prosty 90°

90° access pipe with screw cap

Embranchement de visite

90° avec bouchon à visser



KOD	D	DN	S	L	L <sub>1</sub>	L <sub>2</sub>	H	DE	K <sub>1</sub>	K <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0348001 *	40	40	3	130	75	55	69	54	45	20	0,105	20	160	960	1060x800x1200	PE02	62,41
VS0348003 *	50	50	3	150	90	60	75	70	55	25	0,131	20	160	800	1180x800x1200	PE02	62,41
VS0348004 *	56	56	3	175	105	70	84	85	65	30	0,194	20	160	480	1015x800x1200	PE02	65,19
VS0348005 *	63	60	3	175	100	75	80	82	60	25	0,220	15	120	600	1180x800x1200	PE02	69,09
VS0348007 *	75	70	3	175	105	70	117	117	55	25	0,358	10	80	240	1015x800x1200	PE02	80,61
VS0348009 *	90	90	3,5	200	120	80	125	123	65	25	0,518	10	40	160	1050x800x1200	PE02	108,27
VS0348011	110	100	4,3	240	140	100	94	146	65	20	0,545	10	40	160	1210x800x1200	PE02	116,20
VS0348013 *	125	125	4,9	250	150	100	124	146	70	20	0,675	5	20	80	1050x800x1200	PE02	136,66
VS0348015	160	150	6,2	350	210	140	145	146	105	30	1,239	1	-	54	930x800x1200	PE02	293,86
VS0348017 *	200	200	6,2	360	180	180	165	146	180	25	1,633	1	-	30	930x800x1200	PE02	569,12
VS0348019 *	250	250	7,8	440	220	220	190	146	220	40	2,800	1	-	15	930x800x1200	PE02	653,52
VS0348021 *	315	300	9,8	560	280	280	225	146	280	70	5,578	1	-	8	930x800x1200	PE02	821,33

\* Zgrzewany. - Welded.- Dérivation soudée.

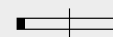
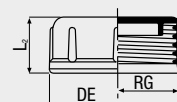
## Części zamienne - Spare parts - Pièces de rechange

### Nakrętka z uszczelką

Short end cap with seal

Bouchon de fermeture

type bas avec joint



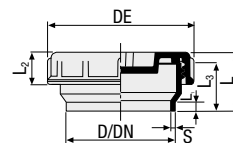
KOD	D/DN	RG	DE	L <sub>2</sub>	kg				CL	pln/szt
VS0340840	40/40	57	60	34	0,038	20	400	3200	PE02	23,24
VS0340850	50/50	63	70	33	0,039	10	200	1600	PE02	22,72
VS0340856	56/56	71	80	34	0,071	10	200	1600	PE02	23,48
VS0340863	63/60	77	85	43	0,086	10	200	1600	PE02	43,24
VS0340875	75/70	97	109	45	0,161	10	80	800	PE02	40,61
VS0340890	90/90	113	128	46	0,225	10	80	480	PE02	47,32
VS0340811	110/100	132	144	65	0,319	10	80	480	PE02	45,16

Zgrzewana. - Welded.- Pièces soudée.

## Korek zamykający typ niski

Stop end, low type

Bouchon court de visite



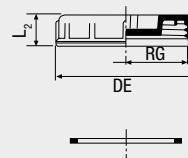
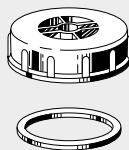
KOD	D	DN	s	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	DE	kg				HxLxP	CL	pln/szt
VS0340111	110	100	4,3	63	12	33	50	149	0,241	15	120	600	1180x800x1200	PE02	72,23

## Części zamienne - Spare parts - Pièces de rechange

### Nakrętka z uszczelką

Short end cap with seal

Bouchon de fermeture  
type bas avec joint

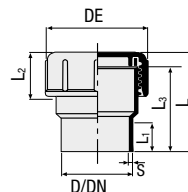


KOD	D/DN	RG	DE	L <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0340210	110/100	132	149	33	0,138	10	80	800	1130x800x1200	PE02	28,84

## Korek zamykający

Stop end

Bouchon de visite (soudage  
avec manchons électriques)



KOD	D	DN	s	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	DE	kg				HxLxP	CL	pln/szt
VS0340001	40	40	3	75	30	34	66	60	0,066	40	320	1920	1060x800x1200	PE02	23,90
VS0340003	50	50	3	75	30	33	66	70	0,073	40	320	1920	1180x800x1200	PE02	25,52
VS0340004	56	56	3	77	30	34	66	80	0,117	20	160	960	1060x800x1200	PE02	28,97
VS0340005	63	60	3	76	30	43	66	85	0,131	20	160	960	1060x800x1200	PE02	37,62
VS0340007	75	70	3	103	30	45	87	109	0,248	20	160	480	1015x800x1200	PE02	44,76
VS0340009	90	90	3,5	103	30	46	88	128	0,345	15	120	360	1015x800x1200	PE02	66,53
VS0340011	110	100	4,3	106	30	65	89	144	0,503	10	80	240	1015x800x1200	PE02	72,23

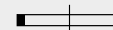
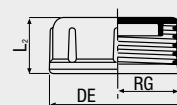
Zgrzewany. - Welded.- Pièce soudée.

## Części zamienne - Spare parts - Pièces de rechange

### Nakrętka z uszczelką

Short end cap with seal

Bouchon de fermeture  
type bas avec joint



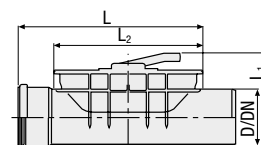
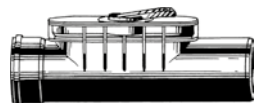
KOD	D/DN	RG	DE	L <sub>2</sub>	kg				CL	pln/szt
VS0340840	40/40	57	60	34	0,038	20	400	3200	PE02	23,24
VS0340850	50/50	63	70	33	0,039	10	200	1600	PE02	22,72
VS0340856	56/56	71	80	34	0,071	10	200	1600	PE02	23,48
VS0340863	63/60	77	85	43	0,086	10	200	1600	PE02	43,24
VS0340875	75/70	97	109	45	0,161	10	80	800	PE02	40,61
VS0340890	90/90	113	128	46	0,225	10	80	480	PE02	47,32
VS0340811	110/100	132	144	65	0,319	10	80	480	PE02	45,16

Zgrzewana. - Welded.- Pièce soudée.

### Czyszczak z ABS z owalną pokrywą

ABS inspection pipe  
with oval access

Raccord visible en ABS  
avec ouverture rectangulaire



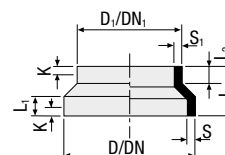
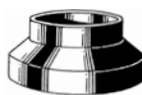
KOD	D	DN	L	L <sub>1</sub>	L <sub>2</sub>	kg		HxLxP	CL	pln/szt
VS0349003 •	125	125	380	192-262	300	5,260	1	930x800x1200	PE02	261,30
VS0349005 •	160	150	400	230-300	300	2,278	1	930x800x1200	PE02	304,90

• Wyprzedaż. - Sell out. - Fin de stock.

### Redukcja centryczna krótka

Mini reducer

Mini réduction

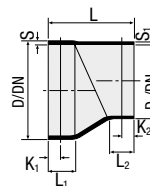


KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	K	kg				HxLxP	CL	pln/szt
VS0377111	50/40	50/40	3	3	18	9	7	10	0,009	50	1000	8000	1010x800x1200	PE02	7,38

## Redukcja niecentryczna wydłużona

Long eccentric reducer

Réduction excentrée  
série longue



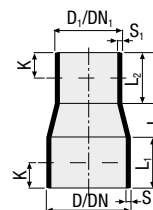
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	K <sub>1</sub>	K <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0358041 *	160/110	150/100	6,2	4,3	215	35	37	20	20	0,472	5	40	120	1015x800x1200	PE02	258,38
VS0358043	160/125	150/125	6,2	4,9	140	45	40	20	20	0,334	5	40	240	1180x800x1200	PE02	258,38
VS0358045 *	200/110	200/100	6,2	4,3	285	80	40	50	10	0,942	1	-	90	930x800x1200	PE02	305,17
VS0358047 *	200/125	200/125	6,2	4,9	285	80	40	50	10	0,922	1	-	90	930x800x1200	PE02	305,17
VS0358049	200/160	200/150	6,2	6,2	210	80	37	50	10	0,720	1	-	126	930x800x1200	PE02	305,17
VS0358055 *	250/200	250/200	7,8	6,2	405	160	140	100	100	1,942	1	-	40	930x800x1200	PE02	463,72
VS0358061 *	315/200	300/200	9,8	6,2	540	160	140	100	100	3,400	1	-	15	930x800x1200	PE02	626,60
VS0358063 *	315/250	300/250	9,8	7,8	450	160	150	100	100	3,346	1	-	16	930x800x1200	PE02	626,60

\* Zgrzewana. - Welded.- Dérivation soudée.

## Redukcja centryczna





Concentric reducer

Réduction centrée



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	K	kg				HxLxP	CL	pln/szt
VS0336000	40/32	40/30	3	3	80	30	30	15	0,025	50	400	4000	1130x800x1200	PE02	7,17
VS0336001	50/40	50/40	3	3	80	30	30	15	0,033	50	400	4000	1130x800x1200	PE02	6,53
VS0336002	56/50	56/50	3	3	80	30	30	15	0,038	50	400	2400	1180x800x1200	PE02	7,59
VS0336061	58/56	56/56	3	3	95	60	30	15	0,047	20	160	1600	1130x800x1200	SL02	28,41
VS0336003	63/40	50/32	3	3	80	30	30	15	0,039	50	400	2400	1180x800x1200	PE02	8,29
VS0336005	63/50	60/50	3	3	80	30	30	15	0,042	50	400	2400	1060x800x1200	PE02	8,29
VS0336006	63/56	60/56	3	3	80	30	30	15	0,043	50	400	2400	1180x800x1200	PE02	8,29
VS0336063	78/63	70/60	3	3	100	60	30	15	0,064	20	160	960	1060x800x1200	SL02	32,66
VS0336007	75/40	70/40	3	3	80	30	30	15	0,046	50	400	2400	1180x800x1200	PE02	10,85
VS0336009	75/50	70/50	3	3	80	30	30	15	0,046	50	400	2400	1180x800x1200	PE02	10,85
VS0336010	75/56	70/56	3	3	80	30	30	15	0,048	50	400	2400	1180x800x1200	PE02	10,85
VS0336011	75/63	70/60	3	3	80	30	30	15	0,052	50	400	2400	1180x800x1200	PE02	10,85
VS0336013	90/40	90/40	3,5	3	80	30	30	15	0,061	30	240	1440	1060x800x1200	PE02	13,05
VS0336015	90/50	90/50	3,5	3	80	30	30	15	0,063	30	240	1440	1060x800x1200	PE02	13,05
VS0336016	90/56	90/56	3,5	3	80	30	30	15	0,065	30	240	1440	1060x800x1200	PE02	13,05
VS0336017	90/63	90/60	3,5	3	80	30	30	15	0,067	25	200	1200	1060x800x1200	PE02	13,05
VS0336019	90/75	90/70	3,5	3	80	30	30	15	0,069	25	200	1200	1060x800x1200	PE02	13,29
VS0336021	110/40	100/40	4,3	3	80	30	30	15	0,088	30	240	1200	1180x800x1200	PE02	15,42



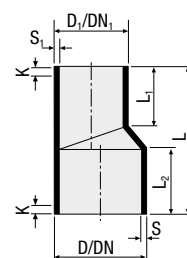
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	K	kg				HxLxP 	CL	pln/szt
VS0336023	110/50	100/50	4,3	3	80	30	30	15	0,093	30	240	1200	1180x800x1200	PE02	15,42
VS0336024	110/56	100/56	4,3	3	80	30	30	15	0,095	30	240	1200	1180x800x1200	PE02	15,42
VS0336025	110/63	100/60	4,3	3	80	30	30	15	0,097	30	240	1200	1180x800x1200	PE02	15,42
VS0336027	110/75	100/70	4,3	3	80	30	30	15	0,098	30	240	1200	1180x800x1200	PE02	15,42
VS0336029	110/90	100/90	4,3	3,5	80	30	30	15	0,103	30	240	1200	1180x800x1200	PE02	15,42
VS0336031	125/50	125/50	4,9	3	80	30	30	15	0,123	20	160	960	1180x800x1200	PE02	23,08
VS0336032	125/56	125/56	4,9	3	80	30	30	15	0,113	20	160	960	1180x800x1200	PE02	23,08
VS0336033	125/63	125/60	4,9	3	80	30	30	15	0,122	20	160	960	1180x800x1200	PE02	23,08
VS0336035	125/75	125/70	4,9	3	80	30	30	15	0,121	20	160	960	1180x800x1200	PE02	23,08
VS0336037	125/90	125/90	4,9	3,5	80	30	30	15	0,124	20	160	960	1180x800x1200	PE02	23,08
VS0336039	125/110	125/100	4,9	4,3	80	30	40	20	0,135	20	160	800	1180x800x1200	PE02	23,08
VS0336041	160/110	150/100	6,2	4,3	115	30	30	15	0,250	1	-	595	930x800x1200	PE02	53,33
VS0336049 *	200/160	200/150	9,2	6,2	180	60	60	20	0,669	1	-	160	930x800x1200	PE02	194,10





\* Zgrzewana. - Welded.- Dérivation soudée.





## Redukcja niecentryczna

Short eccentric reducer

Réduction excentrée série courte



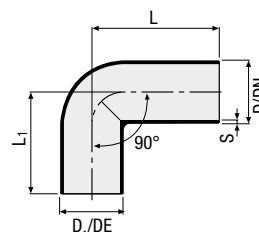
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	K	kg				HxLxP 	CL	pln/szt
VS0358001	50/40	50/40	3	3	80	35	35	20	0,033	50	400	4000	1130x800x1200	PE02	6,95
VS0358002	56/50	56/50	3	3	80	37	35	20	0,038	30	240	2400	1130x800x1200	PE02	7,31
VS0358003	63/40	60/40	3	3	80	37	35	20	0,039	30	240	2400	1130x800x1200	PE02	8,53
VS0358005	63/50	60/50	3	3	80	37	35	20	0,041	30	240	2400	1130x800x1200	PE02	8,53
VS0358006	63/56	60/56	3	3	80	40	35	20	0,043	30	240	2400	1130x800x1200	PE02	9,02
VS0358007	75/40	70/40	3	3	80	37	35	20	0,047	30	240	1440	1060x800x1200	PE02	9,70
VS0358009	75/50	70/50	3	3	80	37	35	20	0,050	30	240	1440	1060x800x1200	PE02	9,70
VS0358010	75/56	70/56	3	3	80	37	35	20	0,052	30	240	1440	1060x800x1200	PE02	10,61
VS0358011	75/63	70/60	3	3	80	35	35	20	0,052	30	240	1440	1060x800x1200	PE02	10,73
VS0358013	90/40	90/40	3,5	3	80	37	35	20	0,067	30	240	1440	1060x800x1200	PE02	14,24
VS0358015	90/50	90/50	3,5	3	80	37	35	20	0,068	30	240	1440	1060x800x1200	PE02	13,05
VS0358016	90/56	90/56	3,5	3	80	37	35	20	0,071	25	200	1200	1060x800x1200	PE02	13,05
VS0358017	90/63	90/60	3,5	3	80	37	35	20	0,068	25	200	1200	1060x800x1200	PE02	13,05
VS0358019	90/75	90/70	3,5	3	80	37	35	20	0,070	25	200	1200	1060x800x1200	PE02	13,05
VS0358021	110/40	100/40	4,3	3	80	37	35	20	0,094	25	200	1000	1180x800x1200	PE02	15,94
VS0358023	110/50	100/50	4,3	3	80	37	35	20	0,098	25	200	1000	1180x800x1200	PE02	15,94
VS0358024	110/56	100/56	4,3	3	80	37	35	20	0,096	25	200	1000	1180x800x1200	PE02	15,94
VS0358025	110/63	100/60	4,3	3	80	37	35	20	0,100	25	200	1000	1180x800x1200	PE02	15,94





KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	S	S <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	K	kg				HxLxP 	CL	pln/szt
VS0358027	110/75	100/70	4,3	3	80	37	35	20	0,098	25	200	1000	1180x800x1200	PE02	15,94
VS0358029	110/90	100/90	4,3	3,5	80	37	35	20	0,105	25	200	1000	1180x800x1200	PE02	15,94
VS0358031	125/50	125/50	4,9	3	80	37	35	20	0,125	10	80	480	1060x800x1200	PE02	26,28
VS0358032	125/56	125/56	4,9	3	80	37	35	20	0,121	10	80	480	1060x800x1200	PE02	26,28
VS0358033	125/63	125/60	4,9	3	80	37	35	20	0,123	10	80	480	1060x800x1200	PE02	26,28
VS0358035	125/75	125/70	4,9	3	80	37	35	20	0,126	10	80	480	1060x800x1200	PE02	26,28
VS0358037	125/90	125/90	4,9	3,5	80	37	35	20	0,126	10	80	480	1060x800x1200	PE02	26,28
VS0358039	125/110	125/100	4,9	4,3	80	37	35	20	0,118	10	80	480	1060x800x1200	PE02	26,28
VS0358038	160/110	150/100	6,2	4,3	80	37	35	20	0,225	5	40	240	1060x800x1200	PE02	59,91
VS0358040	160/125	150/125	6,2	4,9	80	37	35	20	0,213	5	40	240	1060x800x1200	PE02	59,91

### Kolano techniczne długie

Long bend for trap connection

Coque sanitaire rallongé

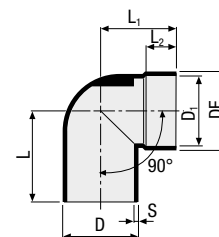






KOD	D/D <sub>1</sub>	DN	S	DE	L	L <sub>1</sub>	kg				HxLxP 	CL	pln/szt
VS0331005	50/44	50	3	44	100	80	0,074	20	160	960	1060x800x1200	PE02	13,29
VS0331006	56/50	56	3	50	100	80	0,090	20	160	960	1060x800x1200	PE02	14,48

### Kolano techniczne z korkiem do przyłączy syfonów

Bend with cap for trap connection

Coque sanitaire avec bouchon



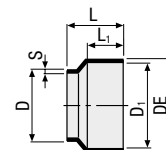
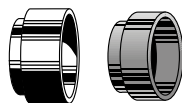
KOD	D/D <sub>1</sub>	S	DE	L	L <sub>1</sub>	L <sub>2</sub>	kg				HxLxP 	CL	pln/szt
VS0330001	32/46	3	52	55	47	23	0,052	40	320	1920	1060x800x1200	PE02	11,23
VS0330003	40/46	3	52	60	51	22	0,058	40	320	1920	1180x800x1200	PE02	9,78
VS0330005	50/46	3	52	62	51	22	0,063	40	320	1600	1180x800x1200	PE02	10,27
VS0330007 *	50/58	3	64	68	55	24	0,067	20	160	960	1060x800x1200	PE02	11,77
VS0330009	56/46	3	52	64	60	22	0,072	20	160	960	1060x800x1200	PE02	11,77
VS0330011 *	56/46	3	64	65	60	22	0,078	20	160	960	1060x800x1200	PE02	11,77

\* Z korkiem ochronnym do kielichów. - With protective cap for sockets. - Avec bouchon de protection de l'emboiture.

## Mufa z korkiem do przyłączy syfonów

Sleeve with cap for trap connection

Manchon pour siphon sanitaire avec bouchon



KOD	D/D <sub>1</sub>	S	DE	L	L <sub>1</sub>	kg				HxLxP	CL	pln/szt
VS0332000	32/46	3	52	30	20	0,033	50	400	2400	1060x800x1200	PE02	9,08
VS0332001	40/46	3	52	30	20	0,030	50	400	4000	1130x800x1200	PE02	9,78
VS0332003	50/46	3	52	30	20	0,028	50	400	2400	1060x800x1200	PE02	10,40
VS0332005 *	50/58	3	64	38	20	0,030	40	320	1920	1060x800x1200	PE02	10,40
VS0332007	56/46	3	52	38	20	0,035	40	320	1920	1060x800x1200	PE02	10,40
VS0332009 *	56/58	3	64	38	20	0,032	20	400	3200	1010x800x1200	PE02	11,16

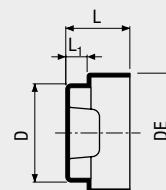
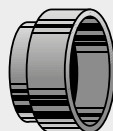
\* Z korkiem ochronnym do kielichów. - With protective cap for sockets. - Avec bouchon de protection de l'emboiture.

## Akcesoria - Akcesoriaes - Accessoires

### Korek ochronny

Protective cap

Bouchon de protection pour coude sanitaire



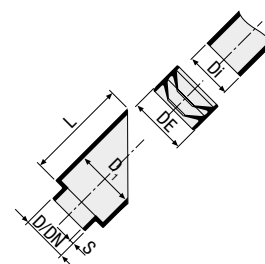
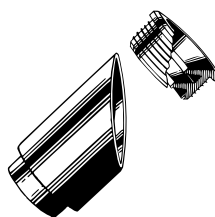
KOD	D	DE	L	L <sub>1</sub>	kg				HxLxP	CL	pln/szt
VS0503222	46	56	30	10	0,010	40	800	5600	935x800x1200	VA02	3,15
VS0503004	58	65	21	19,5	0,009	40	800	5600	935x800x1200	VA02	5,37

## Mufa do wysokich spłuczek z manszetem gumowym

KOD VS0334021

Sleeve for high-level flush cistern with grommet code VS0334021

Manchon pour reservoir haut avec joint ref. VS0334021

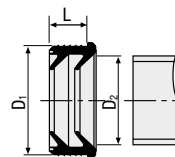


KOD	D/D <sub>1</sub>	DN	s	DI	DE	L	α	kg				HxLxP	CL	pln/szt
VS0333001	32/40	30	3	24-32	40	70	45°	0,034	40	320	2240	1060x800x1200	PE02	17,81

## Manszet gumowy

Rubber grommet

Joint sanitaire



KOD	D <sub>1</sub>	D <sub>2</sub>	L	kg				HxLxP	CL	pln/szt
VS0334003 *	46	24-32	22	0,026	100	800	8000	1130x800x1200	VA02	4,43
VS0334005 *	46	36-40	22	0,012	150	1200	7200	1060x800x1200	VA02	4,43
VS0334007 **	58	36-40	22	0,032	100	800	4800	1060x800x1200	PE02	8,53
VS0334021 ***	40	24-32	22	0,012	50	1000	8000	1010x800x1200	PE02	4,93

\* Dla kodów - For codes - Pour ref. VS0330001-VS0330003-VS0330005-VS0330009-VS0330011-VS0331005-VS0335003-VS0332000-VS0332001-VS0332003-VS0332007.

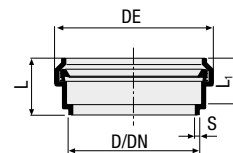
\*\* Dla kodów - For codes - Pour ref. VS0330007-VS0332005-VS0332009.

\*\*\* Dla kodu - For code - Pour ref. VS0333001.

## Kielich krótki z uszczelką i korkiem ochronnym

Short ring seal socket with protective cap

Manchon à emboîter court avec bouchon

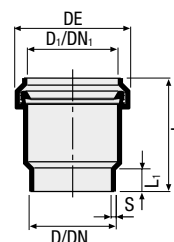


KOD	D	DN	s	DE	L	L <sub>1</sub>	kg				HxLxP	CL	pln/szt
VS0326001	90	90	3,5	108	42	31,5	0,096	25	200	1200	1060x800x1200	PE02	37,75
VS0326003	110	100	4,3	130	42	31,5	0,143	25	200	600	1015x800x1200	PE02	37,75
VS0326111	110	90	4,3	110	43,5	-	0,140	20	160	960	1060x800x1200	PE02	71,35

## Kielich z uszczelką i korkiem ochronnym

Ring seal socket with cap

Manchon à emboîter avec bouchon



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	DE	L	L <sub>1</sub>	kg				HxLxP	CL	pln/szt
VS0324000	32	30	3	46	46	8	0,026	100	800	4800	1060x800x1200	PE02	14,24
VS0324001	40	40	3	56,5	65	13	0,043	50	400	2400	1060x800x1200	PE02	15,16
VS0324003	50	50	3	66,5	65	13	0,054	50	400	2400	1180x800x1200	PE02	17,41
VS0324004	56	56	3	72,5	65	13	0,064	30	240	1440	1060x800x1200	PE02	21,25
VS0324005	63	60	3	79	65	11	0,077	30	240	1440	1180x800x1200	PE02	22,38
VS0324006	63/56	60/56	3	72,5	50	-	0,050	40	320	1920	1060x800x1200	PE02	22,38
VS0324007	75	70	3	92	90	17	0,110	30	240	1200	1180x800x1200	PE02	27,53
VS0324009	90	90	3,5	108	90	17	0,148	25	200	600	1015x800x1200	PE02	34,94
VS0324011	110	100	4,3	130	95	17	0,221	10	80	400	1180x800x1200	PE02	40,58
VS0324013	125	125	4,9	149	95	15	0,278	10	80	400	1180x800x1200	PE02	53,12
VS0324015	160	150	6,2	188	130	30	0,656	1	-	165	930x800x1200	PE02	115,65
VS0324017	200	200	6,2	225	170	18	1,390	1	-	50	930x800x1200	PE02	569,92
VS0324019 *	250	250	7,8	278	170	22	2,274	1	-	33	930x800x1200	PE02	902,31
VS0324021 *	315	300	9,8	350	180	22	3,782	1	-	18	930x800x1200	PE02	1 079,53

\* Bez korka. - Without cap. - Sans bouchon.

## Części zamienne - Spare parts - Pièces de rechange

### Uszczelka typu O-ring do kielichów

O-ring for sockets

Joint torique pour emboiture



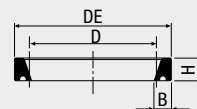
KOD	D/DN	DI	H	kg		CL	pln/szt
VS0392000	32/30	31	5	0,003	20	PE02	2,16
VS0392001	40/40	39	6	0,005	20	PE02	2,29
VS0392003	50/50	49	6	0,006	20	PE02	2,47
VS0392005	63/60	62	6	0,008	20	PE02	4,42
VS0392007	75/70	79	6	0,009	20	PE02	4,30
VS0392009	90/90	89	6	0,014	20	PE02	6,40
VS0392011	110/100	109	7	0,016	20	PE02	10,37
VS0392013	125/125	124	8	0,025	20	PE02	10,37
VS0392015	160/150	159	9	0,040	20	PE02	11,96

## Części zamienne - Spare parts - Pièces de rechange

### Uszczelka jednowargowa do kielichów

1-lip seal for sockets

Joint simple lèvre pour emboiture

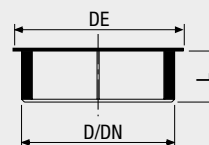






KOD	D/DN	DE	H	B	kg		CL	pln/szt
VS0391001	32/30	40,5	6	4,9	0,003	50	VA02	2,32
VS0391003	40/40	51,4	7,8	6,5	0,005	50	VA02	2,32
VS0391005	50/50	61,4	7,8	6,5	0,007	50	VA02	2,32
VS0391007	56/50	67,5	7,8	6,5	0,008	50	VA02	3,55
VS0391009	63/50	74	7,8	6	0,007	20	VA02	2,53
VS0391011	75/70	86,6	7,8	6,5	0,010	20	VA02	2,84
VS0391222	100/100	114	9,3	8,2	0,018	20	VA02	4,07
VS0391013	90/80	103	8,9	7,5	0,013	20	VA02	3,51
VS0391015	110/100	123,9	8,9	7,9	0,020	20	VA02	3,61
VS0391017	125/125	142,2	10,2	8,9	0,029	20	VA02	5,68
VS0391019	160/150	179,8	11,5	10,2	0,046	20	VA02	7,48
VS0391021	200/200	223,7	12,8	11,2	0,079	20	VA02	13,16
VS0391023	250/250	282	19,5	1,6	0,110	1	VA02	26,55
VS0391025	315/300	350	20,5	17,1	0,130	1	VA02	35,84

### Korek ochronny do kielichów

Protective cap for sockets

Bouchon de protection pour emboitures, manchons de dilatation et coudes sanitaires

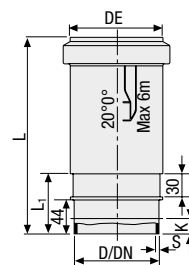


KOD	D/DN	DE	L	kg				HxLxP 	CL	pln/szt
VS0503000	32	36	16	0,006	100	2000	14000	935x800x1200	PP02	2,84
VS0503001	40	46	38	0,007	40	800	5600	935x800x1200	PP02	4,12
VS0503003	50	56	38	0,011	50	800	4000	970x800x1200	PP02	4,12
VS0503002	56	62	38	0,008	40	800	5600	935x800x1200	PE02	3,50
VS0503006	63	75	38	0,013	30	480	2400	970x800x1200	PE02	3,78
VS0503005	75	85	38	0,020	30	480	2400	970x800x1200	PP02	4,94
VS0503008	90	102	38	0,029	30	240	1440	970x800x1200	PP02	6,16
VS0503007	110	123	39	0,043	30	240	960	1010x800x1200	PP02	6,16
VS0503009	125	135	38	0,045	20	160	640	1010x800x1200	PP02	8,66
VS0503011	160	170	38	0,146	10	80	320	970x800x1200	PP02	21,18
VS0503013	200	210	38	0,157	1	-	-	-	PP02	21,98

## Kielich kompensacyjny

Expansion socket

Manchon de dilatation  
avec bouchon



KOD	D	DN	s	DE	L	L <sub>1</sub>	K	kg				HxLxP	CL	pln/szt
VS0328000	32	30	3	40	93	9	-	0,041	50	400	2400	1060x800x1200	PE02	31,07
VS0328001	40	40	3	73	235	60	40	0,159	20	160	960	1180x800x1200	PE02	28,78
VS0328003	50	50	3	81	235	56	40	0,193	20	160	800	1180x800x1200	PE02	29,46
VS0328004	56	56	3	90	235	50	40	0,219	20	160	480	1015x800x1200	PE02	34,73
VS0328005	63	60	3	96	235	56	40	0,246	20	160	480	1015x800x1200	PE02	36,40
VS0328007	75	70	3	109	235	56	40	0,291	10	80	240	1015x800x1200	PE02	39,58
VS0328009	90	90	3,5	117	235	54	40	0,336	15	60	240	1050x800x1200	PE02	45,86
VS0328012 ▲	110	100	4,3	140	255	46	20	0,526	10	40	160	1210x800x1200	PE02	59,70
VS0328013	125	125	4,9	154	235	53	40	0,612	10	40	160	1210x800x1200	PE02	76,08
VS0328015 ▲	160	150	6,2	192	260	72	40	1,079	1	-	80	930x800x1200	PE02	162,78
VS0328017	200	200	6,2	228	350	80	40	1,927	1	-	30	930x800x1200	PE02	665,42
VS0328019 *	250	250	7,8	280	440	183	100	3,602	1	-	17	930x800x1200	PE02	1 155,51
VS0328021 *	315	300	9,8	350	480	183	100	6,345	1	-	8	930x800x1200	PE02	1 890,55

▲ Do sztywnych podpór rur. - For rigid pipe support. - Avec butée pour point fixe.

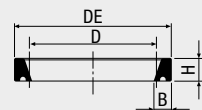
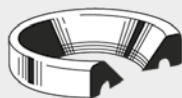
\* Bez korka. - Without cap. - Sans bouchon.

## Części zamienne - Spare parts - Pièces de rechange

### Uszczelka do kielichów kompensacyjnych

Seal for expansion sockets

Joint pour manchon de dilatation

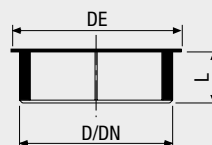


KOD	D/DN	H	B	DE	kg				HxLxP	CL	pln/szt
VS0391001	32/30	6	4,95	40,5	0,003	50	-	-	-	VA02	2,32
VS0390001	40/40	16	12	60	0,026	20	400	3200	1010x800x1200	PE02	9,26
VS0390003	50/50	16	12	70	0,017	20	400	3200	1010x800x1200	PE02	9,26
VS0390004	56/56	16	12	76	0,036	20	400	3200	1010x800x1200	PE02	10,79
VS0390005	63/60	16	12,5	83	0,040	20	400	3200	1010x800x1200	PE02	10,79
VS0390007	75/70	16	12,5	95,5	0,047	20	400	3200	1010x800x1200	PE02	11,16
VS0390009	90/90	16	12,5	111	0,052	20	400	3200	1010x800x1200	PE02	14,58
VS0390011	110/100	16	12,5	130,5	0,076	10	200	1600	1010x800x1200	PE02	12,41
VS0390013	125/125	16	12	143,5	0,067	10	200	1600	1010x800x1200	PE02	17,14
VS0390015	160/150	16	12,5	180,5	0,079	10	200	1600	1010x800x1200	PE02	20,88
VS0390017	200/200	21,8	11,2	223,7	0,340	1	20	160	1010x800x1200	PE02	74,18
VS0391023	250/250	-	16	282	0,110	1	-	-	-	VA02	26,55
VS0391025	315/300	-	17,15	350	0,130	1	-	-	-	VA02	35,84

### Korek ochronny do kielichów

Protective cap for sockets

Bouchon de protection pour emboitures, manchons de dilatation et coudes sanitaires



KOD	D/DN	DE	L	kg				HxLxP	CL	pln/szt
VS0503000	32	36	16	0,006	100	2000	14000	935x800x1200	PP02	2,84
VS0503001	40	46	38	0,007	40	800	5600	935x800x1200	PP02	4,12
VS0503003	50	56	38	0,011	50	800	4000	970x800x1200	PP02	4,12
VS0503002	56	62	38	0,008	40	800	5600	935x800x1200	PE02	3,50
VS0503006	63	75	38	0,013	30	480	2400	970x800x1200	PE02	3,78
VS0503005	75	85	38	0,020	30	480	2400	970x800x1200	PP02	4,94
VS0503008	90	102	38	0,029	30	240	1440	970x800x1200	PP02	6,16
VS0503007	110	123	39	0,043	30	240	960	1010x800x1200	PP02	6,16
VS0503009	125	135	38	0,045	20	160	640	1010x800x1200	PP02	8,66
VS0503011	160	170	38	0,146	10	80	320	970x800x1200	PP02	21,18
VS0503013	200	210	38	0,157	1	-	-	-	PP02	21,98



## Części zamienne - Spare parts - Pièces de rechange

### Korek ochronny do rur

Protective cap for pipe

Bouchon de protection pour tube

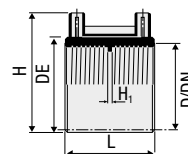
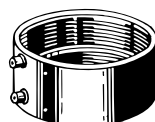


KOD	D	H	kg				HxLxP	CL	pln/szt
VS0503033	50	30	0,008	50	800	3200	970x800x1200	PP02	4,94
VS0503015	75	29	0,018	30	480	1920	970x800x1200	PP02	5,76
VS0503017	90	30	0,022	30	240	1440	1000x800x1200	PP02	6,76
VS0503018	110	38,6	0,029	30	240	960	930x800x1200	PP02	8,18
VS0503019	125	39	0,036	20	160	960	1000x800x1200	PP02	10,22
VS0503031	160	49,5	0,062	10	80	320	930x800x1200	PP02	18,80

### Mufa elektrooporowa

Electro fusion coupling

Manchon électrique

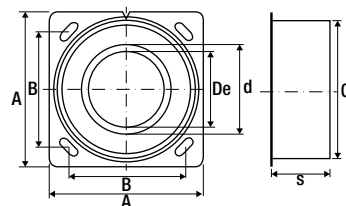
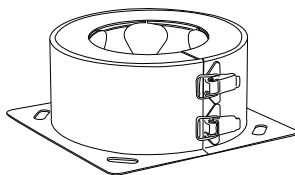



KOD	D	DN	L	DE	H	H <sub>1</sub>	kg				HxLxP	CL	pln/szt
VS0350001	40	40	64	52	68	3	0,053	10	240	3360	1140x800x1200	PE03	34,61
VS0350003	50	50	60	63	80	3	0,065	10	190	2850	1155x800x1200	PE03	37,23
VS0350004	56	56	60	70	86	3	0,078	10	160	2400	1150x800x1200	PE03	37,55
VS0350005	63	60	60	77	92	3	0,080	10	140	1960	1110x800x1200	PE03	38,05
VS0350007	75	70	60	90	105	3	0,101	10	480	1440	1070x800x1200	PE03	43,22
VS0350009	90	90	60	106	121	3	0,126	10	350	1050	1070x800x1200	PE03	48,05
VS0350011	110	100	60	126	143	3	0,161	10	270	810	1070x800x1200	PE03	54,76
VS0350013	125	125	60	142	158	3	0,213	5	200	600	1070x800x1200	PE03	65,17
VS0350015	160	150	60	178	194	3	0,286	5	120	360	1140x800x1200	PE03	117,84
VS0350117	200	200	153	233	248	3	1,399	1	-	75	930x800x1200	PE03	707,07
VS0350119	250	250	153	285	300	3	1,786	1	-	55	930x800x1200	PE03	883,58
VS0350121	315	300	153	350	365	3	2,598	1	-	34	930x800x1200	PE03	1 130,82

## Kołnierz ogniowy Collarwings EI 240

Collarwings fire stop  
collar EI 240

Colliers coupe feu Collarwings

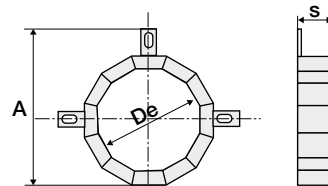
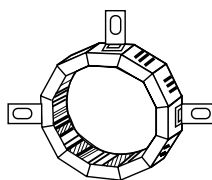



KOD	De (rura - pipe - tube)	d	A	B	C	s	kg		CL	pln/szt
VS0411000	32	42	101	77	79	49,5	0,375	1	VA02	363,81
VS0411001	40	50	114	87	92	49,5	0,482	1	VA02	363,81
VS0411003	50	60	129	95	107	49,5	0,606	1	VA02	363,81
VS0411005	56-58	68	142	106	120	49,5	0,729	1	VA02	455,04
VS0411007	63	75	154	115	132	49,5	0,855	1	VA02	455,04
VS0411009	75	87	171	126	149	49,5	0,996	1	VA02	533,45
VS0411011	90	106	193	145	171	89,5	2,117	1	VA02	749,07
VS0411012	100	116	212	156	190	89,5	2,315	1	VA02	749,07
VS0411013	110	128	225	167	202	89,5	2,716	1	VA02	749,07
VS0411015	125	143	248	181	226	89,5	3,122	1	VA02	941,82
VS0411017	160	180	294	217	272	89,5	4,311	1	VA02	1 480,08

## Kołnierz ogniowy EI 120

Fire collar EI 120

Collier coupe feu EI 120

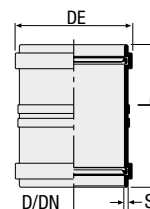




KOD	D	DN	s	A	kg		CL	pln/szt
VS0410019	200	200	177,5	257	4,148	1	VA02	3 113,72
VS0410021	250	250	232,5	319	6,578	1	VA02	4 631,56
VS0410023	315	300	330	395	13,470	1	VA02	8 128,30

## Mufa przesuwna

Sliding connector

Manchon coulissant

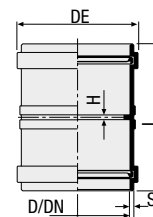


KOD	D	DN	s	L	DE	kg		HxLxP 	CL	pln/szt
VS0355017	160	150	6,7	230	185	1,316	1	930x800x1200	PE02	718,21
VS0355019	200	200	6,7	270	226	1,811	1	930x800x1200	PE02	915,95
VS0355021	250	250	8,3	300	284	3,298	1	930x800x1200	PE02	1 356,74
VS0355023	315	300	10,4	320	354	5,019	1	930x800x1200	PE02	1 882,38

## Mufa dwukielichowa

Bi-joint

Manchon avec butée

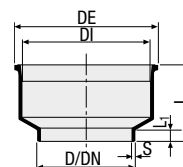


KOD	D	DN	s	L	H	DE	kg			HxLxP	CL	pln/szt
VS0357017	160	150	6,7	230	6	185	1,337	1		930x800x1200	PE02	718,21
VS0357019	200	200	6,7	270	6	226	1,881	1		930x800x1200	PE02	915,95
VS0357021	250	250	8,3	300	7	284	3,277	1		930x800x1200	PE02	1 370,48
VS0357023	315	300	10,4	320	9	354	5,189	1		930x800x1200	PE02	1 882,38

## Mufa do miski WC z korkiem ochronnym

WC pan connector with protective cap

Manchon pour WC avec bouchon de protection



KOD	D	DN	s	DI	DE	L	L <sub>1</sub>	kg				HxLxP	CL	pln/szt
VS0352001 *	90	90	3,5	120	131	67	12	0,120	20	160	480	1015x800x1200	PE02	37,75
VS0352003	110	100	4,3	120	131	68	15	0,127	20	160	480	1015x800x1200	PE02	37,75

\* Zgrzewana. - Welded.- Pièces soudée.

## Akcesoria - Akcesoriaes - Accessoires

### Uszczelka do muf, syfonów i kolan WC

Seal for sleeves, traps and WC toilet bends

Joint pour manchons, siphons et pipes de WC



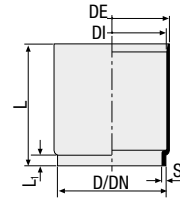
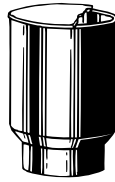
KOD	D/DN	D <sub>2</sub>	DE	H	Kolor Colour - Couleur	kg				HxLxP	CL	pln/szt
VS0386003 **	125/125	102±5	134	23,5	biały - white - blanc	0,104	20	160	1600	1130x800x1200	VA02	23,36

\*\* Dla kodów - For codes - Pour ref. VS0352-VS0354-VS0362125-VS0356-VS0366-VS0367-VS0375-VS0378-VS0380-VS0353.

### Mufa wydłużona do misek WC z korkiem ochronnym

Extended WC pan connector with protective cap

Manchon prolongé pour WC avec bouchon de protection sans joint

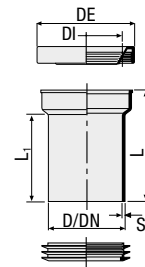


KOD	D	DN	s	DI	DE	L	L <sub>1</sub>	kg				HxLxP	CL	pln/szt
VS0356001	90	90	3,5	110	117	125	9	0,203	20	80	320	1050x800x1200	PE02	34,94
VS0356003	110	100	4,3	110	117	125	11	0,196	20	80	320	1050x800x1200	PE02	37,50

### Mufa wydłużona do stojących misek WC z dwoma uszczłkami

Extended floor pan connector with 2 seals

Manchon de raccordement au WC avec 2 joints

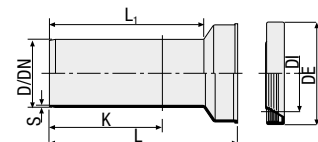
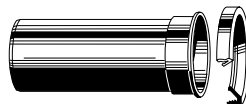


KOD	D	DN	s	DI	DE	L	L <sub>1</sub>	kg				HxLxP	CL	pln/szt
VS0361001	110	100	4,3	102±5	140	166	125	0,403	10	40	160	1050x800x1200	PE02	106,87

### Mufa długa do wiszących misek WC z uszczelką

Long connection sleeve for wall-hung pan with seal

Manchon long de raccordement pour cuvette suspendue avec joint



KOD	D	DN	s	DI	DE	L	L <sub>1</sub>	K	kg				HxLxP	CL	pln/szt
VS0366125 *	90	90	3,5	140	102±5	250	200	150	0,402	10	40	160	1050x800x1200	SP02	124,92
VS0366133	90	90	3,5	140	102±5	300	260	200	0,451	10	40	160	1050x800x1200	SP02	127,75

\* Zgrzewana. - Welded.- Pièces soudée.

## Akcesoria - Akcesoriaes - Accessoires

### Uszczelka do muf, syfonów i kolan WC

Seal for sleeves, traps and WC toilet bends

Joint pour manchons, siphons et pipes de WC



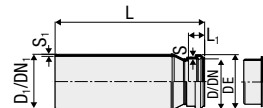
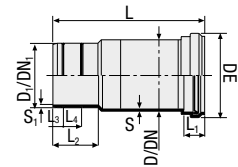
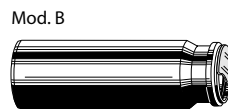
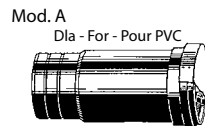
KOD	D/DN	D <sub>2</sub>	DE	H	Kolor Colour - Couleur	kg				HxLxP	CL	pln/szt
VS0386003 **	125/125	102±5	134	23,5	biały - white - blanc	0,104	20	160	1600	1130x800x1200	VA02	23,36

\*\* Dla kodów - For codes - Pour ref. VS0352-VS0354-VS0362125-VS0356-VS0366-VS0367-VS0375-VS0378-VS0380-VS0353.

### Złączka prosta do wiszących misek WC z uszczelką i korkiem ochronnym

Straight connector for wall-hung pan with seal and protective cap

Sortie droite pour cuvette suspendue avec joint et bouchon de protection



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	Mod.	S	S <sub>1</sub>	DE	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	kg				HxLxP	CL	pln/szt
VS0366090	90/100	90/100	A	3,5	5,5	109	232	31	70	15	28	0,328	10	80	240	1015x800x1200	SP02	153,07
VS0366113	90/110	90/100	B	4,3	4,30	109	300	31	180	-	-	0,476	10	40	160	1050x800x1200	SP02	192,79

Zgrzewana. - Welded.- Pièces soudée.

## Części zamienne - Spare parts - Pièces de rechange

### O-ring do złązek HDPE-PVC

O-ring for adaptors (HDPE - PVC)

Joint torique pour raccordement HDPE-PVC



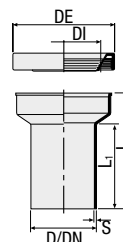
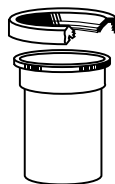
KOD	D	DI	H	kg		CL	pln/szt
VS0392222	100	95	2,62	0,002	20	VA02	5,37

Dla kodów - For codes - Pour ref. VS0353001-VS0353003-VS0354001-VS0366090-VS0366110-VS0364090-VS0364100.

## Mufa do stojących misek WC z przyłączem do ściany

Connection sleeve for  
back-to-wall WC toilet

Manchon de raccordement au  
WC au sol couleur blanche



KOD	D	DN	s	DI	DE	L	L <sub>1</sub>	kg				HxLxP	CL	pln/szt
VS0365001	90	90	3,5	102±5	140	166	130	0,287	10	80	240	1015x800x1200	PE02	79,46
VS0365003	110	100	4,30	102±5	140	166	130	0,308	10	80	240	1050x800x1200	PE02	84,03

## Części zamienne - Spare parts - Pièces de rechange

### Uszczelka do muf, syfonów i kolan WC

Seal for sleeves, traps  
and WC toilet bends

Joint pour manchons,  
siphons et pipes de WC



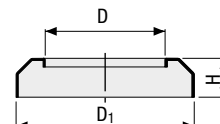
KOD	D/DN	D <sub>2</sub>	DE	H	Kolor Colour - Couleur	kg				HxLxP	CL	pln/szt
VS0386001 *	125/125	102±5	134	23,5	czarny - black - noir	0,130	20	160	1600	1130x800x1200	VA02	16,56

\* Dla kodu - For codes - Pour ref. VS0365.

## Biały kołnierz

White flange

Rosace blanche

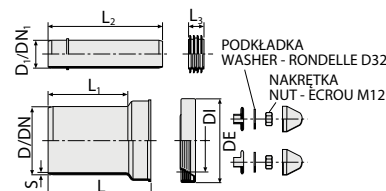
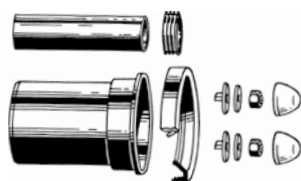


KOD	D	D <sub>1</sub>	H	kg				HxLxP	CL	pln/szt
VS0588003	90	145	35	0,034	20	160	960	970x800x1200	VA02	20,63
VS0588001	110	165	35	0,040	20	160	640	850x800x1200	VA02	22,85

## Zestaw przyłączeniowy wiszącej miski WC

Connection kit for wall-  
hung WC toilet

Kit de raccordement pour  
cuvette suspendue



KOD	D/D <sub>1</sub>	DN	s	DI	DE	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	kg				HxLxP	CL	pln/szt
VS0366001 *	90/45	90	3,5	102±5	132	166	122	195	24	0,123	10	80	240	1015x800x1200	SP02	90,45
VS0366003 **	110/45	100	4,3	102±5	132	166	129	199	24	0,485	10	40	160	1050x800x1200	SP02	111,67

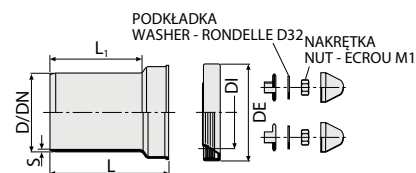
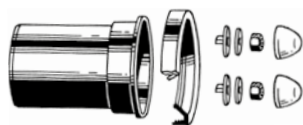
\* Z o-ring. - With o-ring. - Avec joint torique.

\*\* Bez o-ring. - Without o-ring. - Sans joint torique.

## Złączka przyłączeniowa do wiszącej miski WC

Connection sleeve for wall-hung WC toilet

Manchon de raccordement pour cuvette suspendue

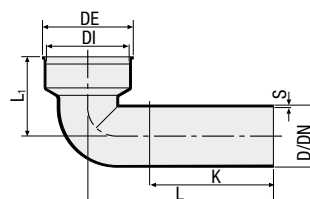


KOD	D	DN	s	DI	DE	L	L <sub>1</sub>	kg				HxLxP	CL	pln/szt
VS0367001	90	90	3,5	102±5	133	166	128	0,352	10	80	240	1015x800x1200	SP02	97,37
VS0367003	110	100	4,3	102±5	131	166	128	0,424	10	80	240	1050x800x1200	SP02	97,37

## Kolano WC z korkiem ochronnym

WC toilet bend with protective cap

Pipe de WC avec bouchon de protection



KOD	D	DN	s	DI	DE	L	L <sub>1</sub>	K	kg				HxLxP	CL	pln/szt
VS0360001 *	90	90	3,5	120	132	270	115	200	0,418	10	40	160	1210x800x1200	PE02	85,16
VS0360003	110	100	4,30	120	132	300	125	200	0,602	10	40	80	1050x800x1200	PE02	105,93

\* Zgrzewane. - Welded.- Pièces soudée.

## Akcesoria - Akcesoriaes - Accessoires

### Uszczelka do muf, syfonów i kolan WC

Seal for sleeves, traps and WC toilet bends

Joint pour manchons, siphons et pipes de WC

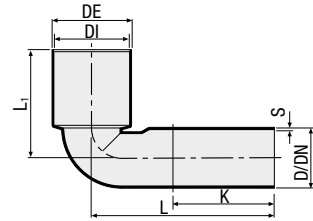
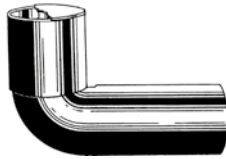


KOD	D/DN	D <sub>2</sub>	DE	H	Kolor Colour - Couleur	kg				HxLxP	CL	pln/szt
VS0386003 **	125/125	102±5	134	23,5	biały - white - blanc	0,104	20	160	1600	1130x800x1200	VA02	23,36

\*\* Dla kodów - For codes - Pour ref. VS0352-VS0354-VS0362125-VS0356-VS0366-VS0367-VS0375-VS0378-VS0380-VS0353.

### Kolano WC wydłużone z korkiem ochronnym

Extended WC toilet bend with protective cap  
 Pipe de WC rallongée avec bouchon de protection

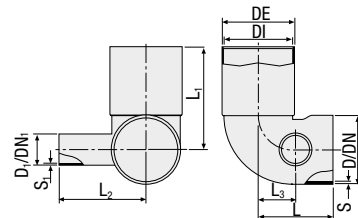
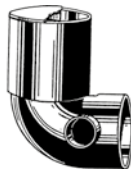


KOD	D	DN	s	DI	DE	L	L <sub>1</sub>	K	kg				HxLxP	CL	pln/szt
VS0362001	90/110	90	3,5	110	116	270	160	200	0,490	15	60	120	950x800x1200	PE02	83,81
VS0362003	110/110	100	4,3	110	116	300	170	220	0,677	10	40	80	950x800x1200	PE02	93,17
VS0362125 *	110/125	100	4,3	125	132	300	190	220	0,705	10	40	80	950x800x1200	PE02	150,53

\* Bez korka. Zgrzewane. - Without cap. Welded. - Sans bouchon. Dérivation soudée

### Kolano WC wydłużone z przyłączem prawym, z korkiem ochronnym

WC toilet extended bend with protective cap, branch on right  
 Pipe de WC rallongée avec piquage à droite et bouchon de protection

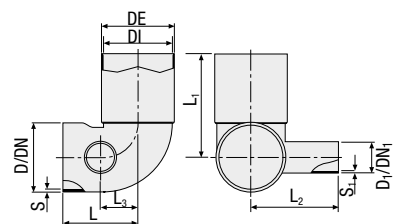


KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	s <sub>1</sub>	DI	DE	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	kg				HxLxP	CL	pln/szt
VS0363001	110/50	100/50	4,3	3	110	116	120	165	140	60	0,457	10	40	120	1054x800x1200	PE02	138,02

Zgrzewane. - Welded.- Pièces soudée.

### Kolano WC wydłużone z przyłączem lewym, z korkiem ochronnym

Extended WC toilet bend with left inlet and protective cap  
 Pipe de WC rallongée avec piquage à gauche et bouchon de protection



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	s <sub>1</sub>	DI	DE	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	kg				HxLxP	CL	pln/szt
VS0363003	110/50	100/50	4,3	3	110	116	120	165	140	60	0,471	10	40	120	1054x800x1200	PE02	138,02

Zgrzewane. - Welded.- Pièces soudée.

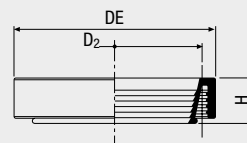
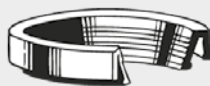


## Akcesoria - Akcesoriaes - Accessoires

### Uszczelka do złązek WC i wydłużonych kolan

Seal for WC toilet sleeves and extended bends

Joint pour manchon WC et pipe WC rallongée



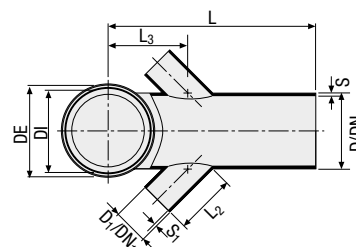
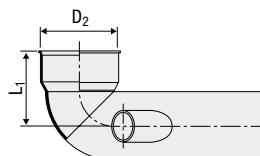
KOD	D	D <sub>2</sub>	DE	H	kg				HxLxP	CL	pln/szt
VS0388001	115	102±5	120	23,5	0,076	30	240	1440	1060x800x1200	PE02	18,75

Dla kodów - For codes - Pour ref. VS0353-VS0362-VS0363.

### Kolano WC z przyłączem podwójnym i korkiem ochronnym

WC toilet bend with 2 inlets with protective cap and blank end for side inlet

Pipe de WC avec 2 piquages parallèles avec bouchon HDPE pour fermetures latérales et bouchon de protection



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	s <sub>1</sub>	DI	DE	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	kg				HxLxP	CL	pln/szt
VS0380001	90/40/120	90/40	3,5	3	120	130	270	120	87	112	0,472	5	20	80	1050x800x1200	PE02	201,75
VS0380003	90/50/120	90/50	3,5	3	120	130	270	120	87	112	0,480	5	20	80	1050x800x1200	PE02	201,75
VS0380005 *	110/40/120	100/40	4,3	3	120	130	300	117	87	115	0,656	5	20	80	1050x800x1200	PE02	201,75
VS0380007 *	110/50/120	100/50	4,3	3	120	130	300	117	87	115	0,650	5	20	80	1210x800x1200	PE02	201,75

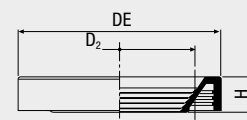
\* Zgrzewane. - Welded.- Dérivation soudée.

## Akcesoria - Akcesoriaes - Accessoires

### Uszczelka do muf, syfonów i kolan WC

Seal for sleeves, traps and WC toilet bends

Joint pour manchons, siphons et pipes de WC



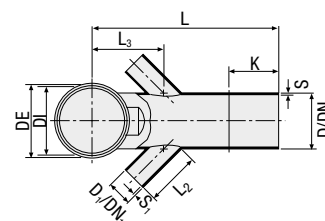
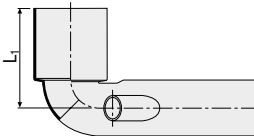
KOD	D/DN	D <sub>2</sub>	DE	H	Kolor Colour - Couleur	kg				HxLxP	CL	pln/szt
VS0386003 **	125/125	102±5	134	23,5	biały - white - blanc	0,104	20	160	1600	1130x800x1200	VA02	23,36

\*\* Dla kodów - For codes - Pour ref. VS0352-VS0354-VS0362125-VS0356-VS0366-VS0367-VS0375-VS0378-VS0380-VS0353.

## Kolano WC wydłużone z przyłączem podwójnym i korkiem ochronnym

Extended WC toilet bend with 2 inlets with protective cap and blank end for side inlet

Pipe de WC rallongée avec 2 piquages parallèles avec bouchon HDPE pour fermetures latérales et bouchon de protection



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	s <sub>1</sub>	DI	DE	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	K	kg				HxLxP	CL	pln/szt
VS0381001 ♦	90/40	90/40	3,5	3	110	116	270	160	87	115	80	0,549	5	20	80	1050x800x1200	PE02	201,75
VS0381003 ♦	90/50	90/50	3,5	3	110	116	270	160	87	115	80	0,542	5	20	80	1050x800x1200	PE02	201,75
VS0381005 ♦	100/40	100/40	4,3	3	110	116	300	170	100	115	120	0,763	5	20	80	1210x800x1200	PE02	201,75
VS0381007	110/50	100/50	4,3	3	110	116	300	170	87	120	120	0,746	5	20	80	1210x800x1200	PE02	201,75
VS0381125 *	110/50	100/50	4,3	3	125	131	300	190	87	115	120	0,739	5	20	80	1210x800x1200	PE02	201,75

\* Bez korka. - Without cap. - Sans bouchon.

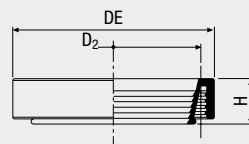
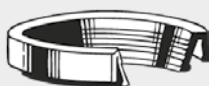
♦ Zgrzewane. - Welded. - Dérivation soudée.

## Akcesoria - Akcesoriaes - Accessoires

### Uszczelka do złączy WC i wydłużonych kolan

Seal for WC toilet sleeves and extended bends

Joint pour manchon WC et pipe WC rallongée



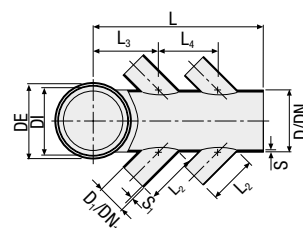
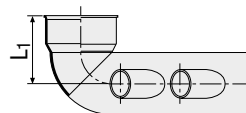
KOD	D	D <sub>2</sub>	DE	H	kg				HxLxP	CL	pln/szt
VS0388001	115	102±5	120	23,5	0,076	30	240	1440	1060x800x1200	PE02	18,75

Dla kodów - For codes - Pour ref. VS0353-VS0362-VS0363.

## Kolano WC z przyłączem poczwórnym i korkiem ochronnym

WC toilet bend with 4 inlets  
with protective cap and  
blank end for side inlet

Pipe de WC avec 4 piquages  
avec bouchon HDPE pour  
fermetures latérales et  
bouchon de protection



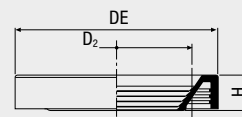
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	s <sub>1</sub>	DI	DE	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	kg				HxLxP	CL	pln/szt
VS0378001	110/40	100/40	4,3	3	120	130	300	117	87	115	107	0,689	5	40	160	1054x800x1200	PE02	204,92
VS0378003	110/50	100/50	4,3	3	120	130	300	117	87	115	107	0,692	5	20	80	1210x800x1200	PE02	204,92

## Akcesoria - Akcesoriaes - Accessoires

### Uszczelka do muf, syfonów i kolan WC

Seal for sleeves, traps  
and WC toilet bends

Joint pour manchons,  
siphons et pipes de WC



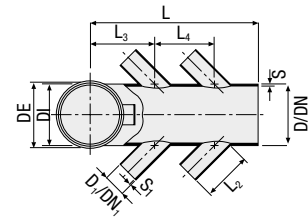
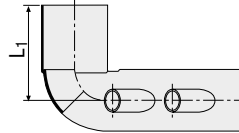
KOD	D/DN	D <sub>2</sub>	DE	H	Kolor Colour - Couleur	kg				HxLxP	CL	pln/szt
VS0386003 **	125/125	102±5	134	23,5	biały - white - blanc	0,104	20	160	1600	1130x800x1200	VA02	23,36

\*\* Dla kodów - For codes - Pour ref. VS0352-VS0354-VS0362125-VS0356-VS0366-VS0367-VS0375-VS0378-VS0380-VS0353.

## Kolano WC wydłużone z przyłączem poczwórnym i korkiem ochronnym

Extended WC toilet bend with 4 inlets with protective cap and blank end for side inlet

Pipe de WC rallongée avec 4 piquages avec bouchon HDPE pour fermetures latérales et bouchon de protection



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	s <sub>1</sub>	DI	DE	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	kg				HxLxP	CL	pln/szt
VS0379001 ♦	110/40	100/40	4,3	3	110	117	300	170	87	115	107	0,765	5	20	60	1054x800x1200	PE02	236,33
VS0379003 ♦	110/50	100/50	4,3	3	110	117	300	170	87	120	107	0,796	5	20	60	1054x800x1200	PE02	236,33
VS0379125 *	110/50	100/50	4,3	3	125	130	300	190	87	115	107	0,806	5	20	40	950x800x1200	PE02	216,72

\* Bez korka. - Without cap. - Sans bouchon.

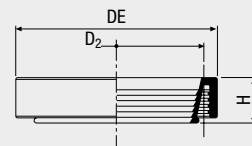
♦ Zgrzewane. - Welded. - Dérivation soudée.

## Akcesoria - Akcesoriaes - Accessoires

### Uszczelka do złązek WC i wydłużonych kolan

Seal for WC toilet sleeves and extended bends

Joint pour manchon WC et pipe WC rallongée



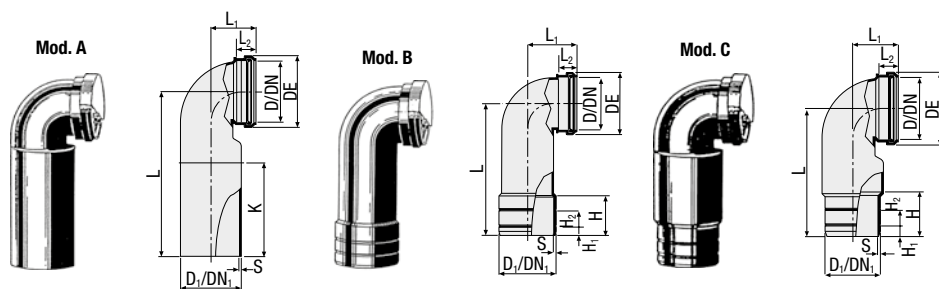
KOD	D	D <sub>2</sub>	DE	H	kg				HxLxP	CL	pln/szt
VS0388001	115	102±5	120	23,5	0,076	30	240	1440	1060x800x1200	PE02	18,75

Dla kodów - For codes - Pour ref. VS0353-VS0362-VS0363.

## Kolano do wiszących misek WC z uszczelką i korkiem ochronnym

WC toilet bend for wall-hung pan with seal and protective cap

Pipe de WC pour cuvette suspendue avec joint et bouchon de protection



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	Mod.	Mat.	s	L	L <sub>1</sub>	L <sub>2</sub>	DE	H	H <sub>1</sub>	H <sub>2</sub>	K	kg				HxLxP	CL	pln/szt
VS0364001	90/90	90/90	A	HDPE	3,5	270	90	40	108	-	-	-	150	0,388	10	40	160	1050x800x1200	SP02	121,03
VS0364003	110/110	100/100	A	HDPE	4,3	300	87	40	130	-	-	-	180	0,597	10	40	160	1210x800x1200	SP02	124,92
VS0364006 *	90/90	90/90	A	PP	3,5	230	65	35	108	-	-	-	150	0,239	10	40	160	1210x800x1200	SP02	117,85
VS0364008 *◆	90/90	90/90	A	PP	2,5	400	66	33	105	-	-	-	-	0,410	10	40	160	1210x800x1200	SP02	155,30
VS0364015	90/100	90/100	A	PVC	3,6	300	90	35	108	-	-	-	-	0,331	1	-	-	980x800x1200	SP02	114,42
VS0364052	90/100	90/100	A	PP	2,9	230	86	32	108	-	-	-	136	0,272	1	-	168	980x800x1200	SP02	117,60
VS0364059	90/100	90/100	B	HDPE	3,7	230	86	52	109	69	18	25	-	0,352	1	-	200	950x800x1200	SP02	163,64
VS0364111	90/110	90/100	A	HDPE	4,3	230	90	40	108	74	24	15	-	0,525	10	40	160	1050x800x1200	SP02	124,92
VS0364090	90/100	90/100	B	HDPE	4,9	230	87	40	130	76	25	25	-	0,387	10	40	160	1050x800x1200	SP02	134,20
VS0364100 ◆	110/100	100/100	C	HDPE	-	-	-	-	-	-	-	-	-	0,520	10	40	160	1210x800x1200	SP02	222,84

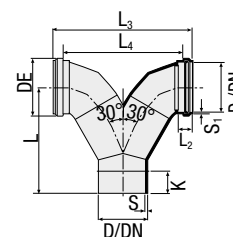
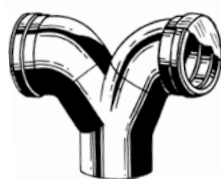
\* Oszczędność miejsca. - Space-saving. - Faible encombrement.

◆ Zgrzewane. - Welded. - Pièces soudées.

## Kolano podwójne do wiszących misek WC, instalacja pionowa

Double bend for wall-hung WC toilet, vertical installation

Pipe de WC double parallèle pour cuvette suspendue avec joint et bouchon de protection

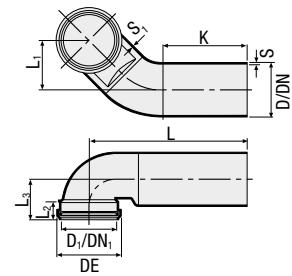
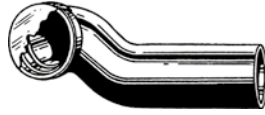


KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	s <sub>1</sub>	DE	L	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	K	kg				HxLxP	CL	pln/szt
VS0368001	110/110	100/100	4,3	4,3	130	205	37	285	240	50	0,828	5	20	60	1054x800x1200	PE02	315,82
VS0368003	110/90	100/90	4,3	3,5	108	210	-	270	-	50	0,772	5	20	60	1054x800x1200	PE02	315,82

Zgrzewane. - Welded. - Dérivation soudée.

**Kolano do wiszących misek WC, instalacja pozioma, lewe, z uszczelką i korkiem**

Bend for wall-hung WC toilet, horizontal installation, left, with seal and cap  
 Pipe de WC horizontale gauche pour cuvette suspendue avec joint et bouchon de protection

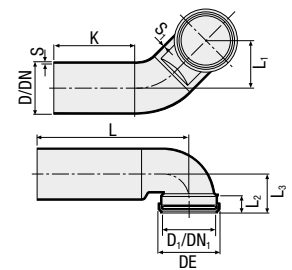


KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	s <sub>1</sub>	DE	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	K	kg				HxLxP	CL	pln/szt
VS0370002	90/90	90/90	3,5	3,5	108	290	100	35	85	150	0,452	5	40	120	1015x800x1200	PE02	165,47
VS0370003	110/90	100/90	4,3	3,5	108	315	100	35	85	170	0,602	5	20	80	1050x800x1200	PE02	175,68
VS0370001	110/110	100/100	4,3	4,3	130	320	100	35	85	170	0,704	5	20	80	1050x800x1200	PE02	175,68

Zgrzewane. - Welded.- Pièces soudée.

**Kolano do wiszących misek WC, instalacja pozioma, prawe, z uszczelką i korkiem**

Bend for wall-hung WC toilet, horizontal installation, right, with seal and cap  
 Pipe de WC horizontale droite pour cuvette suspendue avec joint et bouchon de protection



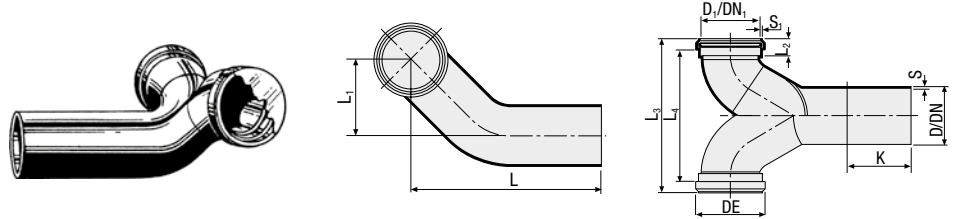
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	s <sub>1</sub>	DE	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	K	kg				HxLxP	CL	pln/szt
VS0372002	90/90	90/90	3,5	3,5	110	290	100	35	85	150	0,450	5	40	120	1015x800x1200	PE02	165,47
VS0372003	110/90	100/90	4,3	3,5	108	315	100	35	85	170	0,602	5	20	80	1050x800x1200	PE02	175,68
VS0372001	110/110	100/100	3,5	4,3	130	340	100	35	85	170	0,691	5	20	80	1050x800x1200	PE02	175,68

Zgrzewane. - Welded.- Pièces soudée.

### Kolano podwójne do wiszących misek WC, instalacja pozioma, z uszczelkami i korkami

Double bend for wall-hung WC toilet, horizontal installation, with seals and protective caps

Pipe de WC horizontale double parallèle avec joints et bouchons de protection



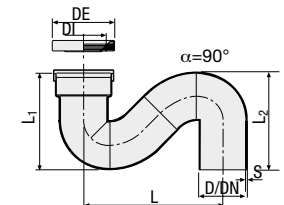
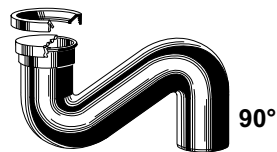
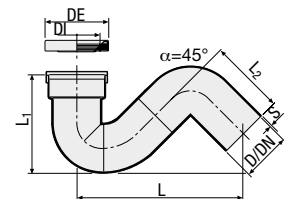
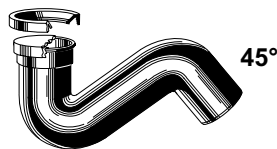
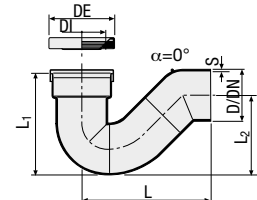
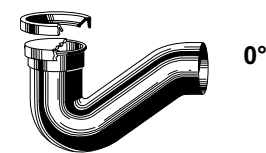
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	s <sub>1</sub>	DE	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	K	kg				HxLxP	CL	pln/szt
VS0374001	110/110	100/100	4,3	4,3	130	340	95	37	285	240	120	1,032	5	20	40	950x800x1200	PE02	419,78
VS0374003	110/90	100/90	4,3	3,5	108	335	100	-	270	-	120	0,984	5	20	40	950x800x1200	PE02	419,78

Zgrzewane. - Welded.- Dérivation soudée.

### Syfon do stojących spłuczek WC z uszczelką i korkiem ochronnym

Trap for squatting toilet with seal and protective cap

Siphon de WC à la turque avec joint et bouchon de protection



KOD	D	DN	α	s	DI	DE	L	L <sub>1</sub>	L <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0375001	110	100	0°	4,3	102±5	140	270	215	170	0,826	5	20	80	950x800x1200	PE02	261,06
VS0375003	110	100	45°	4,3	102±5	140	240	225	160	1,044	5	20	40	950x800x1200	PE02	265,23
VS0375005	110	100	90°	4,3	102±5	140	340	225	220	1,133	5	20	40	950x800x1200	PE02	306,00

Zgrzewany. - Welded.- Pièces soudée.

## Akcesoria - Akcesoriaes - Accessoires

### Uszczelka do muf, syfonów i kolan WC

Seal for sleeves, traps and WC toilet bends

Joint pour manchons, siphons et pipes de WC



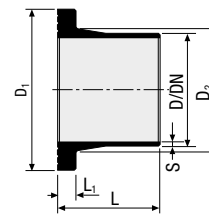
KOD	D/DN	D <sub>2</sub>	DE	H	Kolor Colour - Couleur	kg				HxLxP	CL	pln/szt
VS0386003 **	125/125	102±5	134	23,5	biały - white - blanc	0,104	20	160	1600	1130x800x1200	VA02	23,36

\*\* Dla kodów - For codes - Pour ref. VS0352-VS0354-VS0362125-VS0356-VS0366-VS0367-VS0375-VS0378-VS0380-VS0353.

### Tuleja kołnierzowa

Stub end

Collet à souder pour bride



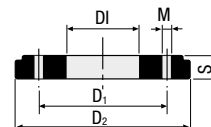
KOD	D	DN	s	D <sub>1</sub>	D <sub>2</sub>	L	L <sub>1</sub>	kg		CL	pln/szt
VS0347003	50	50	3	88	61	63	12	0,092	1	PE02	61,10
VS0347006	56	56	3	94	72	90	12	0,109	1	PE02	76,65
VS0347007	63	60	3	102	75	90	15	0,137	1	PE02	76,65
VS0347009	75	70	3	122	89	90	15	0,191	1	PE02	82,87
VS0347011	90	90	3,5	138	106	90	15	0,257	1	PE02	93,21
VS0347013	110	100	4,3	158	120	100	18	0,367	1	PE02	105,65
VS0347015	125	125	4,9	158	128	100	18	0,334	1	PE02	127,48
VS0347017	140	140	4,9	188	150	100	18	0,472	1	PE02	174,77
VS0347019	160	150	6,2	212	175	100	18	0,634	1	PE02	179,21
VS0347021	200	200	6,2	268	232	128	20	1,149	1	PE02	467,78
VS0347023	250	250	7,8	320	285	130	20	1,679	1	PE02	833,41
VS0347025	315	300	9,8	370	336	130	20	2,095	1	PE02	1 122,73




## Malowany aluminiowy kołnierz

Painted aluminium backing flange

Bride libre en aluminium  
verni avec perçage

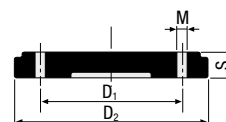



KOD	D/DN	S	DI	D <sub>1</sub>	D <sub>2</sub>	M	Otwory Hole - Trou n°	kg		CL	pln/szt
VS0345003	50/50	20	62	120	150	18	4	0,547	1	PE02	126,32
VS0345006	56/56	20	64	123	159	18	4	0,713	1	PE02	147,33
VS0345007	63/60	17	78	128	165	18	4	0,711	1	PE02	151,96
VS0345009	75/70	21	93	148	185	18	4	0,880	1	PE02	179,59
VS0345011	90/90	22	108	160	200	18	8	0,985	1	PE02	184,19
VS0345013	110/100	22	128	182	220	18	8	1,142	1	PE02	222,03
VS0345015	125/125	22	136	176	220	18	8	1,066	1	PE02	251,88
VS0345017	140/140	22	160	210	250	18	8	1,354	1	PE02	292,86
VS0345019	160/150	25	179	240	285	22	8	1,844	1	PE02	322,58
VS0345021	200/200	26	235	295	337	22	8	2,341	1	PE02	529,61
VS0345023	250/250	30	285	350	396	22	12	3,106	1	PE02	746,06
VS0345025	315/300	30	340	400	444	22	12	3,531	1	PE02	1 059,18

## Malowany aluminiowy kołnierz zaślepiający

Painted aluminium blank flange

Bride pleine en aluminium verni

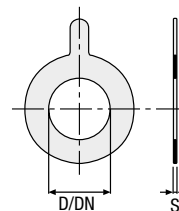



KOD	D/DN	S	D <sub>1</sub>	D <sub>2</sub>	M	Otwory Hole - Trou n°	kg		CL	pln/szt
VS0346003	50/50	20	120	150	18	4	0,757	1	PE02	131,05
VS0346006	56/56	20	123	159	18	4	0,868	1	PE02	152,46
VS0346007	63/60	17	128	165	18	4	1,017	1	PE02	153,52
VS0346009	75/70	21	148	185	18	4	1,088	1	PE02	198,21
VS0346011	90/90	22	162	200	18	8	1,531	1	PE02	246,63
VS0346013	110/100	22	176	220	18	8	1,718	1	PE02	293,49
VS0346015	125/125	22	182	280	18	8	1,797	1	PE02	314,63
VS0346017	140/140	22	210	250	18	8	2,392	1	PE02	461,83
VS0346019	160/150	25	240	285	22	8	2,821	1	PE02	482,57
VS0346021	200/200	26	295	337	22	8	4,627	1	PE02	561,05
VS0346023	250/250	30	350	396	22	12	7,437	1	PE02	796,94
VS0346025	315/300	30	400	444	22	12	9,282	1	PE02	1 178,25

## Płaska uszczelka gumowa do kołnierzy

Flat rubber seal for flange

Joint plat pour bride

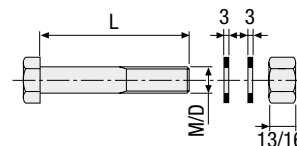



KOD	D	DN	s	kg		CL	pln/szt
VS0343003	50	50	3	0,018	1	PE02	8,66
VS0343005	56	56	3	0,019	1	PE02	8,66
VS0343007	63	60	3	0,021	1	PE02	12,90
VS0343009	75	70	3	0,032	1	PE02	30,37
VS0343011	90	90	3	0,037	1	PE02	15,91
VS0343013	110	100	3	0,044	1	PE02	16,13
VS0343015	125	125	3	0,036	1	PE02	17,01
VS0343017	140	140	3	0,067	1	PE02	22,13
VS0343019	160	150	3	0,068	1	PE02	25,64
VS0343021	200	200	3	0,111	1	PE02	26,71
VS0343023	250	250	3	0,143	1	PE02	53,39
VS0343025	315	300	3	0,150	1	PE02	56,47

## Ocynkowana śruba z podkładką i nakrętką do kołnierza

Galvanised bolt with washer and nut for flange

Boulon avec écrou et rondelle métalliques pour bride

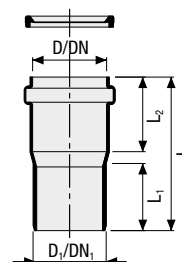
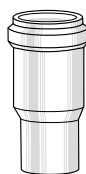


KOD	M/DN	L	Dla kołnierza For flange - Pour bride D	kg		CL	pln/szt
VS0341003	16	90	50-56	0,865	1 (4 szt)	PE02	56,56
VS0341005	16	100	63-75	0,923	1 (4 szt)	PE02	70,52
VS0341006	16	100	90	1,863	1 (8 szt)	PE02	112,66
VS0341007	16	110	110-125-140	1,971	1 (8 szt)	PE02	120,83
VS0341009	20	110	160	3,243	1 (8 szt)	PE02	188,31
VS0341011	20	130	200-250-315	5,404	1 (12 szt)	PE02	311,15

## Łącznik do PVC (połączenie klejone)

Solvent weld adaptor for  
connection to PVC

Raccord de liaison  
en PVC à coller

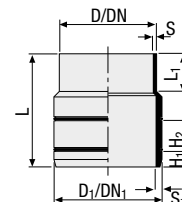
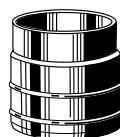


KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0564121	40/40	40/40	105	50	55	0,045	40	320	1920	970x800x1200	PP02	29,51
VS0564122	50/50	43/40	105	44	47	0,050	30	240	1440	970x800x1200	PP02	32,63
VS0564123	50/50	50/50	105	50	55	0,054	30	240	1440	970x800x1200	PP02	30,25
VS0564150	50/100	50/100	130	91	40	0,186	10	80	480	970x800x1200	PP02	90,59
VS0564075	75/75	70/70	144	87	58	0,177	15	120	480	850x800x1200	PP02	63,46
VS0564131	75/80	70/80	154	78	75	0,176	15	120	480	1010x800x1200	PP02	63,46
VS0564182	75/82	70/80	159	78	80	0,197	15	120	480	850x800x1200	PP02	63,46
VS0564175	75/100	70/100	156	77	77	0,143	10	80	480	970x800x1200	PP02	70,12
VS0564190	90/100	90/100	143	76	65	0,216	10	80	320	1010x800x1200	PP02	70,57
VS0564101	110/100	100/100	147	83	57	0,241	10	80	320	1010x800x1200	PP02	98,15
VS0564251	110/125	100/125	145	83	60	0,290	10	80	240	1015x800x1200	PP02	74,13

## Złączka zewnętrzna z o-ring do połączenia z PVC

Male adaptor with o-rings  
for connection to PVC

Raccord mâle avec joint toriques  
pour le raccordement au PVC

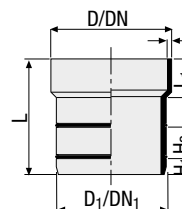


KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	s <sub>1</sub>	L	L <sub>1</sub>	H <sub>1</sub>	H <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0353001	90/100	90/100	3,5	6	115	30	15	24	0,142	10	80	480	1060x800x1200	PE02	63,54

## Złączka zewnętrzna z o-ring do połączenia z PVC

Male adaptor with o-rings  
for connection to PVC

Raccord mâle avec joint toriques  
pour le raccordement au PVC

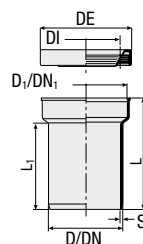
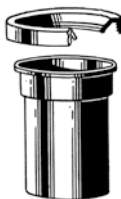


KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	DE	L	L <sub>1</sub>	H <sub>1</sub>	H <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0353003	110/100	100/100	4,3	105	105	30	26	27	0,160	15	120	600	1180x800x1200	PE02	70,37

## Złączka wewnętrzna z o-ring do połączenia z PVC

Female adaptor for connection to PVC

Raccord femelle pour le raccordement au PVC



KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	DI	DE	L	L <sub>1</sub>	kg				HxLxP	CL	pln/szt
VS0353005	90/100	90/100	3,5	102±5	140	166	130	0,275	10	40	160	1050x800x1200	PE02	86,38
VS0353007	110/100	100/100	4,3	102±5	140	166	130	0,347	10	40	160	1050x800x1200	PE02	93,48

## Części zamienne - Spare parts - Pièces de rechange

### Uszczelka do muf, syfonów i kolan WC

Seal for sleeves, traps and WC toilet bends

Joint pour manchons, siphons et pipes de WC



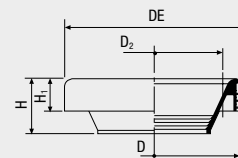
KOD	D/DN	D <sub>2</sub>	DE	H	Kolor Colour - Couleur	kg				HxLxP	CL	pln/szt
VS0386003 **	125/125	102±5	134	23,5	biały - white - blanc	0,104	20	160	1600	1130x800x1200	VA02	23,36

\*\* Dla kodów - For codes - Pour ref. VS0352-VS0354-VS0362125-VS0356-VS0366-VS0367-VS0375-VS0378-VS0380-VS0353.

### Uszczelka do mufy łączącej (PVC)

Seal for connecting sleeve (PVC)

Joint pour raccords de liaison au PVC



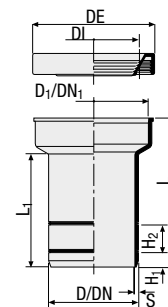
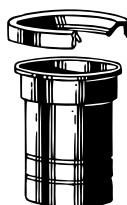
KOD	D/DN	DE	D <sub>2</sub>	H	H <sub>1</sub>	kg				HxLxP	CL	pln/szt
VS0386005	125/125	130	100±7	40	23	0,145	20	160	1600	1130x800x1200	PE02	24,15

\*\* Dla kodów - For codes - Pour ref. VS0353007.

## Złączka do spłuczek WC z o-ring do łączenia z PVC

WC toilet connector for PVC with ring seal

Manchon WC avec joint torique pour le raccordement au PVC



KOD	D	DN	s	DI	DE	L	L <sub>1</sub>	L <sub>2</sub>	H <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0354001	100	100	4,3	102±5	140	166	125	17	30	0,327	10	80	240	1015x800x1200	SP02	144,47

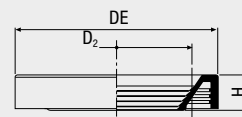
Zgrzewana. - Welded. - Pièces soudée.

## Części zamienne - Spare parts - Pièces de rechange

### Uszczelka do muf, syfonów i kolan WC

Seal for sleeves, traps and WC toilet bends

Joint pour manchons, siphons et pipes de WC



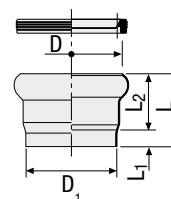
KOD	D/DN	D <sub>2</sub>	DE	H	Kolor Colour - Couleur	kg				HxLxP	CL	pln/szt
VS0386003 **	125/125	102±5	134	23,5	biały - white - blanc	0,104	20	160	1600	1130x800x1200	VA02	23,36

\*\* Dla kodów - For codes - Pour ref. VS0352-VS0354-VS0362125-VS0356-VS0366-VS0367-VS0375-VS0378-VS0380-VS0353.

## Złączka mosiężna do połączeń z rurmi metalowymi

Metal adaptor (brass)

Raccord en laiton avec joint pour le raccordement au tube métallique à braser

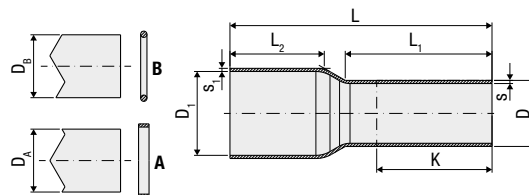
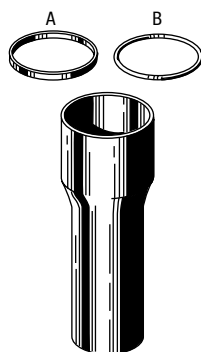


KOD	D	D <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0570001	32	32	61	26	33	0,028	40	800	5600	935x800x1200	PP02	41,52
VS0570002	40	32	59	28	25	0,040	40	800	5600	935x800x1200	PP02	41,52
VS0570003	40	40	55	25	25	0,037	40	800	5600	935x800x1200	PP02	41,52

**Traper do łączenia  
 z rurami żeliwnymi,  
 azbestowymi i stalowymi**

Contraction sleeve for connection  
 to cast iron, asbestos, steel pipes

Raccord à rétrécissement avec  
 joint pour raccordement à  
 la fonte, eternit, acier etc



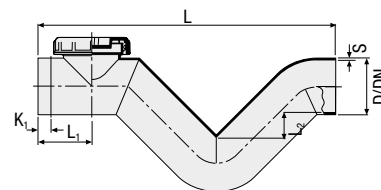
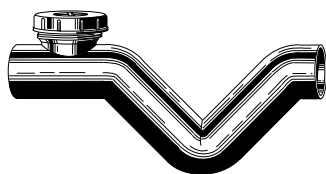
KOD	D	D <sub>1</sub>	s	s <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	K	D <sub>A</sub>	D <sub>B</sub>	kg				HxLxP	CL	pln/szt
VS0383001	50	60	3	3	300	220	60	190	53-54	48-49	0,230	15	120	360	1015x800x1200	PE02	60,71
VS0383003 *	50	73	3	3	285	105	70	75	60-67	53-60	0,256	15	120	360	1015x800x1200	PE02	168,46
VS0383005 *	50	80	3	3	310	120	90	90	67-74	60-67	0,216	15	120	360	1015x800x1200	PE02	168,46
VS0383007 *	50	90	3	3	295	105	80	75	80-84	73-79	0,301	15	60	240	1050x800x1200	PE02	168,46
VS0383011	56	60	3	3	250	180	60	150	53-54	48-49	0,141	15	120	360	1015x800x1200	PE02	62,59
VS0383013	56	73	3	3	260	155	75	125	60-67	53-60	0,159	15	120	360	1015x800x1200	PE02	62,59
VS0383021	63	73	3	3	265	165	70	135	60-67	53-60	0,249	15	60	240	1050x800x1200	PE02	63,05
VS0383023	63	80	3	3	250	140	90	110	67-74	60-67	0,218	15	60	240	1050x800x1200	PE02	63,05
VS0383025 *	63	90	3	3	295	105	80	75	80-84	73-79	0,313	15	60	240	1050x800x1200	PE02	85,25
VS0383029	75	80	3	3	255	160	60	130	67-74	60-67	0,315	15	60	240	1050x800x1200	PE02	91,68
VS0383031	75	90	3	3	255	145	80	115	80-84	73-79	0,320	10	80	240	1015x800x1200	PE02	91,68
VS0383033 *	75	100	3	3	290	180	60	150	88-94	83-87	0,257	10	80	240	1015x800x1200	PE02	213,52
VS0382001	90	110	3,5	3,5	180	80	85	50	84-98	-	0,239	10	80	240	1015x800x1200	PE02	112,08
VS0382003	110	122	4,3	4,3	210	80	100	55	102-111	100-109	0,338	10	40	160	1050x800x1200	PE02	118,36
VS0382005	110	140	4,3	4,3	225	80	100	55	102-126	100-124	0,422	10	40	160	1210x800x1200	PE02	157,00
VS0382007	125	150	4,9	4,9	225	80	100	55	116-136	115-134	0,519	10	40	120	1054x800x1200	PE02	157,00

\* Zgrzewany. - Welded.- Pièces soudée.

## Syfon Firenze z rewizją D 110

Firenze trap with access D 110

Siphon Firenze avec bouchon d'inspection D 110



KOD	D	DN	s	L	L <sub>1</sub>	L <sub>2</sub>	K <sub>1</sub>	kg		CL	pln/szt
VS0375110	110	100	4,3	580	105	50	20	1,248	1	PE02	407,35
VS0375125	125	125	4,9	650	100	50	20	1,759	1	PE02	498,85
VS0375160	160	150	6,2	870	140	50	30	3,471	1	PE02	1 080,92

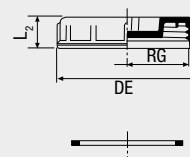
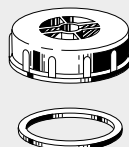
Zgrzewany. - Welded.- Dérivation soudée.

## Części zamienne - Spare parts - Pièces de rechange

### Nakrętka z uszczelką

Short end cap with seal

Bouchon de fermeture type bas avec joint

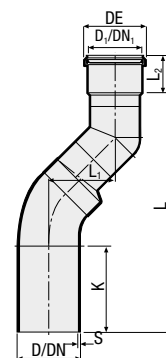
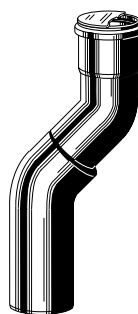


KOD	D/DN	RG	DE	L <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0340210	110/100	132	149	33	0,138	10	80	800	1130x800x1200	PE02	28,84

## Złączka z przesunięciem równoległym

Offsetting fitting

Dévoisement parallèle

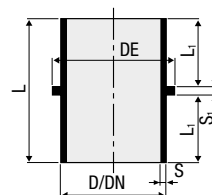


KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	DE	L	L <sub>1</sub>	L <sub>2</sub>	K	kg				HxLxP	CL	pln/szt
VS0323090	90/90	90/90	3,5	108	470	100	70	135	0,531	5	20	80	1050x800x1200	PE02	194,13
VS0323109	110/90	100/90	4,3	108	480	110	65	170	0,706	5	20	80	1050x800x1200	PE02	187,09

Zgrzewana. - Welded.- Pièces soudée.

## Tuleja pierścieniowa

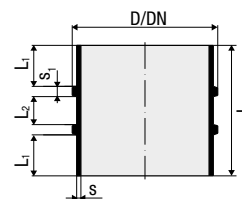
Flange bushing  
Collet de fixation



KOD	D	DN	s	s <sub>1</sub>	DE	L	L <sub>1</sub>	kg				HxLxP	CL	pln/szt
VS0344001	40	40	3	4	46	64	30	0,023	50	400	4000	1130x800x1200	PE02	8,08
VS0344003	50	50	3	4	57	68	32	0,032	50	400	2400	1060x800x1200	PE02	8,76
VS0344004	56	56	3	4	64	68	32	0,036	40	320	1920	1060x800x1200	PE02	10,30
VS0344005	63	60	3	4	71	72	34	0,044	20	160	1600	1130x800x1200	PE02	11,49
VS0344007	75	70	3	5	84	83	39,5	0,061	20	160	960	1180x800x1200	PE02	16,31
VS0344009	90	90	3,5	5	100	100	47,5	0,100	15	120	600	1180x800x1200	PE02	24,21
VS0344011	110	100	4,3	6	120	112	53,5	0,171	10	80	400	1180x800x1200	PE02	27,53

## Tuleja pierścieniowa pod obejmę

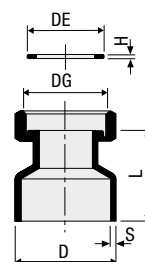
Flange bushing with housing for clip  
Collet avec double bride



KOD	D	DN	s	s <sub>1</sub>	DE	L	L <sub>1</sub>	L <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0344215	200	200	6,2	15	13	191	60	41	0,816	1	-	80	950x800x1200	PE02	288,16
VS0344217	250	250	7,7	20	262	201	60	41	1,345	1	-	48	950x800x1200	PE02	376,12
VS0344219	315	300	9,7	20	326	201	60	41	2,030	1	-	28	950x800x1200	PE02	528,24

## Złączka połączeniowa HDPE z półsrubunkiem i płaską uszczelką

Cap and lining seal  
Raccord à écrou tournant avec joint







### USZCZELKA GUMOWA - RUBBER SEAL - JOINT EN CAOUTCHOUC

KOD	D	DG	S	L	DE	H	Nakrętka - Nut - Écrou	kg				HxLxP	CL	pln/szt
VS0700038 *	32	1"1/4	3	45	40	2	mosiądz - brass - laiton	0,071	50	800	4000	970x800x1200	PE02	40,95
VS0700043 *	40	1"1/4	3	45	40	2	mosiądz - brass - laiton	0,077	50	800	4000	970x800x1200	PE02	34,23
VS0700045	40	1"1/2	3	45	45	2	mosiądz - brass - laiton	0,087	50	800	4000	970x800x1200	PE02	35,61
VS0700062 *	50	1"1/4	3	45	40	2	mosiądz - brass - laiton	0,082	40	640	3200	970x800x1200	PE02	35,61
VS0700063 *	50	1"1/2	3	45	45	2	mosiądz - brass - laiton	0,089	40	640	3200	970x800x1200	PE02	36,19



USZCZELKA FIBROWA - FIBRE SEAL - JOINT EN FIBRE

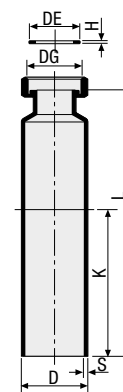
KOD	D	DG	S	L	DE	H	Nakrętka - Nut - Écrou	kg				HxLxP 	CL	pln/szt
VS0700238	32	1"1/4	3	45	40	2	plastik - plastic - plastique	0,022	40	640	3200	970x800x1200	PE02	36,19
VS0700243 *	40	1"1/4	3	45	40	2	plastik - plastic - plastique	0,026	40	640	3200	970x800x1200	PE02	29,75
VS0700245 *	40	1"1/2	3	45	45	2	plastik - plastic - plastique	0,031	50	800	4000	970x800x1200	PE02	29,75
VS0700262 *	50	1"1/4	3	45	40	2	plastik - plastic - plastique	0,028	40	640	3200	970x800x1200	PE02	29,75
VS0700263 *	50	1"1/2	3	45	45	2	plastik - plastic - plastique	0,031	40	640	3200	970x800x1200	PE02	31,62

\* Zgrzewana. - Welded.- Pièces soudée.

Złączka wydłużona  
połączeniowa HDPE  
z półśrubunkiem i  
płaską uszczelką

Cap and lining - long





Raccord rallongé à écrou  
tournant avec joint



USZCZELKA GUMOWA - RUBBER SEAL - JOINT EN CAOUTCHOUC

KOD	D	DG	S	L	DE	H	K	Nakrętka - Nut - Écrou	kg				HxLxP 	CL	pln/szt
VS0700051 *	40	1"1/4	3	195	40	2	110	mosiądz - brass - laiton	0,132	20	320	1600	970x800x1200	PE02	57,75
VS0700053 *	40	1"1/2	3	195	45	2	110	mosiądz - brass - laiton	0,144	20	160	960	965x800x1200	PE02	54,61
VS0700058 *	50	1"1/4	3	195	40	2	110	mosiądz - brass - laiton	0,149	20	160	1120	970x800x1200	PE02	62,40
VS0700060 *	50	1"1/2	3	195	45	2	110	mosiądz - brass - laiton	0,160	20	160	1120	970x800x1200	PE02	62,40

USZCZELKA FIBROWA - FIBRE SEAL - JOINT EN FIBRE

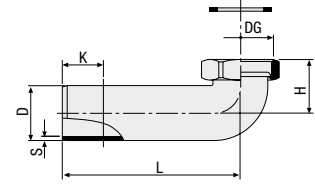
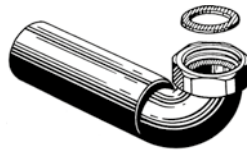
KOD	D	DG	S	L	DE	H	K	Nakrętka - Nut - Écrou	kg				HxLxP 	CL	pln/szt
VS0700251 *	40	1"1/4	3	195	40	2	110	plastik - plastic - plastique	0,080	20	320	1600	970x800x1200	PE02	53,52
VS0700253 *	40	1"1/2	3	195	45	2	110	plastik - plastic - plastique	0,085	20	160	1120	970x800x1200	PE02	50,62
VS0700254 *	48	1"1/4	3	195	40	2	110	plastik - plastic - plastique	0,094	20	160	1120	970x800x1200	PE02	55,29
VS0700256 *	48	1"1/2	3	195	45	2	110	plastik - plastic - plastique	0,099	20	160	1120	970x800x1200	PE02	55,29
VS0700258 *	50	1"1/4	3	195	40	2	110	plastik - plastic - plastique	0,098	20	160	1120	970x800x1200	PE02	55,29
VS0700260 *	50	1"1/2	3	195	45	2	110	plastik - plastic - plastique	0,102	20	160	1120	970x800x1200	PE02	62,12

\* Zgrzewana. - Welded.- Pièces soudée.

**Złączka kolankowa  
 połączeniowa HDPE  
 z półrubunkiem i  
 płaską uszczelką**

Cap and lining - curved

Coude à écrou tournant  
 avec joint



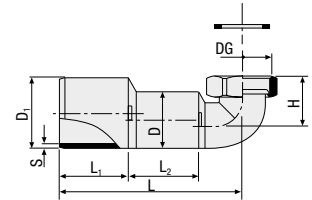
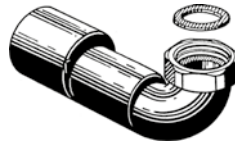
USZCZELKA GUMOWA - RUBBER SEAL - JOINT EN CAOUTCHOUC

KOD	D	DG	S	L	H	K	Nakrętka - Nut - Écrou	kg				HxLxP	CL	pln/szt
VS0700180	40	1"1/4	3	130	25	100	mosiądz - brass - laiton	0,093	20	320	1600	970x800x1200	PE02	31,47
VS0700190	40	1"1/2	3	130	30	100	mosiądz - brass - laiton	0,111	20	320	1600	970x800x1200	PE02	32,65

**Złączka kolankowa  
 połączeniowa HDPE  
 z półrubunkiem i  
 płaską uszczelką**

Cap and lining - curved

Coude à écrou tournant  
 avec joint



USZCZELKA GUMOWA - RUBBER SEAL - JOINT EN CAOUTCHOUC

KOD	D	DG	S	L	L <sub>1</sub>	L <sub>2</sub>	H	Nakrętka - Nut - Écrou	kg				HxLxP	CL	pln/szt
VS0700059	40/50	1"1/4	3	130	50	54	25	mosiądz - brass - laiton	0,103	20	320	1600	970x800x1200	PE02	31,62
VS0700061	40/50	1"1/2	3	120	50	-	30	mosiądz - brass - laiton	0,122	25	200	1400	970x800x1200	PE02	33,54

USZCZELKA FIBROWA - FIBRE SEAL - JOINT EN FIBRE

KOD	D	DG	S	L	L <sub>1</sub>	L <sub>2</sub>	H	Nakrętka - Nut - Écrou	kg				HxLxP	CL	pln/szt
VS0700261 *	40/50	1"1/2	3	120	50	N.C.	30	plastik - plastic - plastique	0,073	20	160	1120	970x800x1200	PE02	35,11

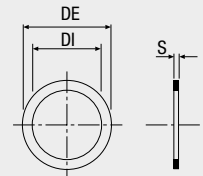
\* Zgrzewana. - Welded.- Pièces soudée.

**Części zamienne - Spare parts - Pièces de rechange**

**Uszczelka płaska fibrowa**

Flat fibre seal

Joint plat en fibre



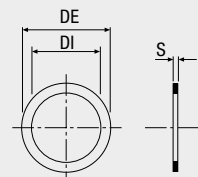
KOD	G	s	DE	DI	kg		CL	pln/szt
VS0703029	1"1/4	2,4	38	30	0,011	10	PE02	2,46
VS0703027	1"1/2	2,4	45	36	0,011	10	PE02	2,46

## Części zamienne - Spare parts - Pièces de rechange

### Uszczelka płaska gumowa

Flat rubber seal

Joint plat en caoutchouc

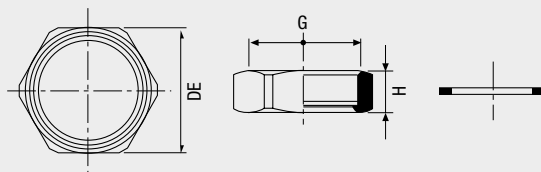


KOD	G	s	DE	DI	kg		CL	pln/szt
VS0703024	1"1/4	2,4	38	30	0,002	10	PE02	3,84
VS0703021	1"1/2	2,4	45	36	0,001	10	PE02	2,46

### Nakrętka mosiężna

Brass nut

Écrou en laiton

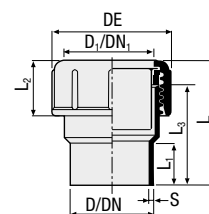
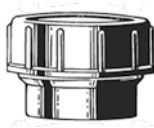


KOD	G	DE	H	kg		CL	pln/szt
VS0703114	1"1/4	Klucz - Key - Clé 45	15	0,064	10	PE02	23,96
VS0703121	1"1/2	Klucz - Key - Clé 45	15	0,078	10	PE02	23,96

### Gwintowana złączka

Threaded coupling

Raccord à compression  
à visser (soudage avec  
manchons électriques)



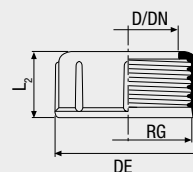
KOD	D/D <sub>1</sub>	DN/DN <sub>1</sub>	s	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	DE	kg				HxLxP	CL	pln/szt
VS0338001	40	40	3	74	30	34	66	60	0,062	40	320	1920	1060x800x1200	PE02	27,62
VS0338003	50	50	3	76	30	33	66	70	0,075	40	320	1920	1180x800x1200	PE02	29,36
VS0338004	56	56	3	46	30	34	66	80	0,110	25	200	1200	1180x800x1200	PE02	39,58
VS0338005	63	60	3	79	30	43	66	85	0,125	25	200	1200	1180x800x1200	PE02	42,17
VS0338006	63/56	60	3	48	-	34	66	80	0,110	25	200	1200	1060x800x1200	PE02	44,70
VS0338007	75	70	3	106	30	45	87	109	0,241	20	160	480	1015x800x1200	PE02	55,13
VS0338009	90	90	3,5	86	30	46	88	128	0,321	15	120	360	1015x800x1200	PE02	78,66
VS0338011	110	100	4,3	113	30	65	89	144	0,481	10	80	240	1015x800x1200	PE02	79,15

## Części zamienne - Spare parts - Pièces de rechange

### Nakrętka

Nut

Écrou à visser en plastique

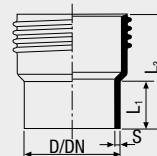


KOD	D	DN	RG	DE	L <sub>2</sub>	kg				HxLxP	CL	pln/szt
VS0338840	40	40	52	60	34	0,026	10	200	1600	1010x800x1200	PE02	18,41
VS0338850	50	50	62	70	33	0,028	10	200	1600	1010x800x1200	PE02	19,42
VS0338856	56	56	71	80	34	0,051	10	200	1600	1010x800x1200	PE02	24,67
VS0338863	63	60	76	85	43	0,058	10	200	1600	1010x800x1200	PE02	25,85
VS0338875	75	70	96	109	45	0,103	10	80	800	1130x800x1200	PE02	35,25
VS0338890	90	80	112	128	46	0,147	10	80	480	1060x800x1200	PE02	42,29
VS0338811	110	100	132	144	65	0,221	10	80	480	1060x800x1200	PE02	42,51

### Gwintowany koniec rury

Threaded pipe end

Embout plastique fileté



KOD	D	DN	s	L <sub>1</sub>	L <sub>3</sub>	kg				HxLxP	CL	pln/szt
VS0340340	40	40	3	30	66	0,025	10	200	1600	1010x800x1200	PE02	14,58
VS0340350	50	50	3	30	66	0,034	10	200	1600	1010x800x1200	PE02	16,04
VS0340356	56	56	3	30	66	0,046	10	200	1600	1010x800x1200	PE02	15,76
VS0340363	63	60	3	30	66	0,045	10	200	1600	1010x800x1200	PE02	19,39
VS0340365	75	70	3	30	87	0,098	15	120	720	1060x800x1200	PE02	22,32
VS0340375	90	90	3,5	30	88	0,131	10	80	480	1060x800x1200	PE02	34,33
VS0340310	110	100	4,3	30	89	0,182	10	80	400	1180x800x1200	PE02	35,46

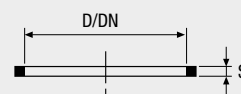
Dla kodów - For codes - Pour ref. VS0338001-VS0338003-VS0338004-VS0338005-VS0338006-VS0338007-VS0338009-VS0338011-VS0340001-VS0340003-VS0340004-VS0340005-VS0340007-VS0340009-VS0340011.

## Części zamienne - Spare parts - Pièces de rechange

### Uszczelka pierścieniowa

Ring

Bague de serrage



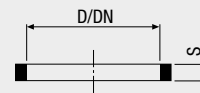
KOD	D	DN	s	kg		CL	pln/szt
VS0338041	40	40	4	0,001	10	PE02	7,10
VS0338051	50	50	3	0,001	10	PE02	7,10
VS0338058	56	56	4	0,002	10	PE02	8,45
VS0338065	63	60	4	0,002	10	PE02	7,10
VS0338076	75	70	4	0,005	10	PE02	8,81
VS0338091	90	90	3	0,006	10	PE02	9,78
VS0338111	110	100	4	0,007	10	PE02	9,78


Dla kodów - For codes - Pour ref. VS0338001-VS0338003-VS0338004-VS0338005-VS0338006-VS0338007-VS0338009-VS0338011-VS0340001-VS0340003-VS0340004-VS0340005-VS0340007-VS0340009-VS0340011.

### Uszczelka gumowa

Rubber seal

Joint



KOD	D	DN	s	kg		CL	pln/szt
VS0338040	40	40	6	0,004	10	PE02	4,94
VS0338050	50	50	6	0,005	10	PE02	4,94
VS0338056	56	56	6	0,005	10	PE02	5,33
VS0338063	63	60	7	0,006	10	PE02	5,80
VS0338075	75	70	10	0,023	10	PE02	8,01
VS0338090	90	90	7	0,017	10	PE02	12,38
VS0338110	110 A	100	10	0,025	10	PE02	10,98
VS0338121 *	110 B	100	5	0,013	10	PE02	10,98

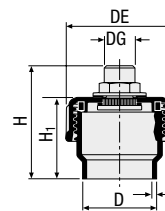
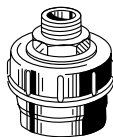
Dla kodów - For codes - Pour ref. VS0338001-VS0338003-VS0338004-VS0338005-VS0338006-VS0338007-VS0338009-VS0338011-VS0340001-VS0340003-VS0340004-VS0340005-VS0340007-VS0340009-VS0340011.

\* Typ niski dla kodu - Low type for code -Type bas pour ref. VS0340111.

## Złączka z mosiężnym gwintem zewnętrznym

Threaded joint with brass threaded union

Raccord à visser avec piquage laiton fileté



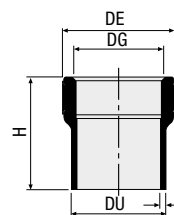
KOD	D	DG	s	DE	H	H <sub>1</sub>	kg				HxLxP	CL	pln/szt
VS0387001	40	1/2"	3	60	81	74	0,140	10	200	1600	1010x800x1200	PE02	143,73
VS0387003	40	3/4"	3	60	84	74	0,176	10	200	1600	1010x800x1200	PE02	143,73
VS0387007	50	1/2"	3	71	92	76	0,143	5	100	800	1010x800x1200	PE02	143,73
VS0387009	50	3/4"	3	71	95	76	0,184	5	100	800	1010x800x1200	PE02	143,73
VS0387011	50	1"	3	71	95	76	0,241	5	100	800	1010x800x1200	PE02	143,73

Zgrzewana. - Welded.- Pièces soudée.

## Adapter HDPE z gwintem wewnętrznym i stalowym pierścieniem

HDPE adaptor with reinforced female thread and steel ring

Raccord à souder en HDPE avec taraudage interne renforcé et anneau en acier

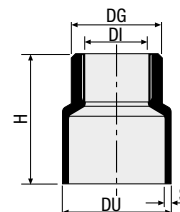


KOD	DU	DG	s	DE	H	kg				HxLxP	CL	pln/szt
VS0384001	40	1/2"	3	40,5	55	0,054	20	400	3200	1010x800x1200	PE02	120,50
VS0384003	40	3/4"	3	40,5	55	0,053	20	400	3200	1010x800x1200	PE02	120,50
VS0384005	40	1"	3	40,5	55	0,050	20	400	3200	1010x800x1200	PE02	120,50
VS0384007	50	1/2"	3	50	60	0,077	20	400	3200	1010x800x1200	PE02	181,93
VS0384009	50	3/4"	3	50	60	0,074	20	400	3200	1010x800x1200	PE02	181,93
VS0384011	50	1"	3	50	60	0,070	20	400	3200	1010x800x1200	PE02	181,93
VS0384013	50	1"1/4	3	50	60	0,059	10	200	1600	1010x800x1200	PE02	181,93
VS0384015	50	1"1/2	3	58,5	60	0,075	10	200	1600	1010x800x1200	PE02	181,93
VS0384017	56	2"	3	70	65	0,100	10	200	1600	1010x800x1200	PE02	210,41
VS0384019	63	2"	3	70	65	0,103	5	100	800	1010x800x1200	PE02	273,19
VS0384021	75	2"1/2	3	89	70	0,176	5	100	800	1010x800x1200	PE02	323,68

## Adapter HDPE z gwintem zewnętrznym i stalowym pierścieniem

HDPE adaptor with reinforced  
male thread and steel ring

Raccord à souder en HDPE  
avec filetage externe renforcé  
et anneau en acier

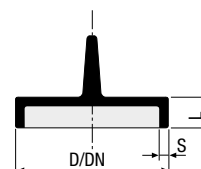
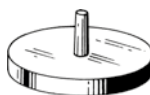


KOD	DU	DG	s	DI	H	kg				HxLxP	CL	pln/szt
VS0385013	50	1"1/4	3	29	60	0,053	10	200	1600	1010x800x1200	PE02	181,93
VS0385015	50	1"1/2	3	29	60	0,064	10	200	1600	1010x800x1200	PE02	181,93
VS0385017	56	2"	3	47	65	0,078	10	200	1600	1010x800x1200	PE02	210,41
VS0385019	63	2"	3	47	65	0,089	10	200	1600	1010x800x1200	PE02	273,19
VS0385021	75	2"1/2	3	57	70	0,135	5	100	800	1010x800x1200	PE02	323,68

## Zaślepka do zgrzewania

Blank end

Couvercle de fermeture à souder



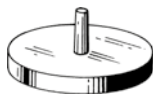
KOD	D	DN	s	L	kg				HxLxP	CL	pln/szt
VS0342001	32	30	3	5	0,004	100	2000	16000	1010x800x1200	PE02	9,02
VS0342003	40	40	3	10	0,007	100	2000	16000	1010x800x1200	PE02	11,10
VS0342005	50	50	3	10	0,010	50	1000	8000	1010x800x1200	PE02	11,89
VS0342006	56	56	3	10	0,012	50	1000	8000	1010x800x1200	PE02	12,32
VS0342007	63	60	3	10	0,015	50	1000	8000	1010x800x1200	PE02	12,53
VS0342009	75	70	3	10	0,019	30	600	4800	1010x800x1200	PE02	14,85
VS0342011	90	90	3,5	10	0,029	20	400	3200	1010x800x1200	PE02	15,16
VS0342013	110	100	4,3	10	0,050	40	320	1920	1060x800x1200	PE02	26,13
VS0342015	125	125	4,9	10	0,068	30	240	1440	1060x800x1200	PE02	38,36
VS0342017	160	150	6,9	73	0,309	1	-	60	930x800x1200	PE02	113,91
VS0342019	200	200	7,3	110	0,582	1	-	60	930x800x1200	PE02	127,72
VS0342021 *	250	250	8,2	94	0,831	1	-	-	930x800x1200	PE02	221,72
VS0342023 *	315	300	10,8	117	1,555	1	-	60	930x800x1200	PE02	265,30

\* Zgrzewana. - Welded.- Pieces soudée.

## Zaślepka naprawcza do zgrzewania

Repair for holes

Pièce de réparation de perçage

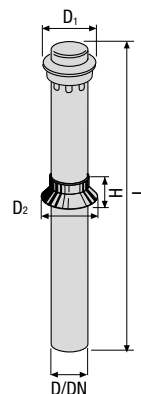
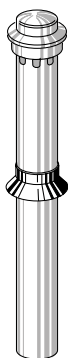


KOD	D	DN	kg		CL	pln/szt
VS0455050	38	-	0,071	1 (20 szt - pcs)	VA02	260,48

## Rura wywiewna PP z kołnierzem szara

Grey PP vent cowl

Chapeau de ventilation en PP gris

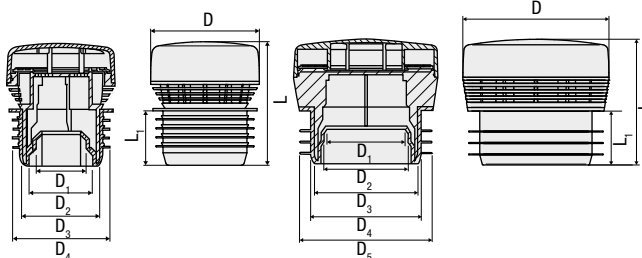
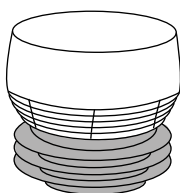


KOD	D	DN	D <sub>1</sub>	D <sub>2</sub>	L	H	kg				HxLxP	CL	pln/szt
VS0394001	50	50	140	91	720	45	0,242	10	30	120	1090x800x1200	PP02	185,52
VS0394003	75	70	200	121	720	52	0,369	5	15	60	1105x800x1200	PP02	206,13
VS0394005	110	100	200	166	720	55	0,759	5	15	45	1200x800x1200	PP02	221,18

## Zawór napowietrzający

Air admittance valve

Aérateur



VS0700401

VS0700402

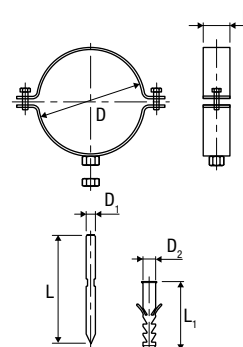
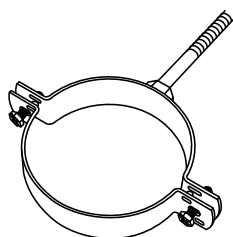
KOD	D	D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	D <sub>4</sub>	D <sub>5</sub>	L	L <sub>1</sub>	kg		CL	pln/szt
VS0700401	70	32	40	50	63	-	79,5	35	0,102	12	VA02	260,17
VS0700402	125	70	75	90	100	110	108	46	0,358	6	VA02	479,38




## Ocynkowana obejma M10 z mocowaniem, do punktów stałych i przesuwnych

M10 galvanized pipe clip with  
anchor, for fixed and sliding point

Collier acier M10 avec cheville,  
point fixe et point coulissant



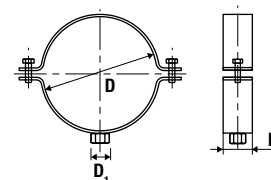
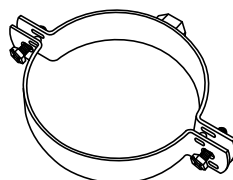
KOD	D	H	L	L <sub>1</sub>	D <sub>1</sub>	D <sub>2</sub>	kg		CL	pln/szt
VS0395001	40	30	120	75	M10	14	0,216	50	VA02	20,11
VS0395003	50	30	120	75	M10	14	0,234	50	VA02	22,02
VS0395004	56	30	120	75	M10	14	0,242	50	VA02	24,50
VS0395005	63	30	120	75	M10	14	0,256	50	VA02	24,50
VS0395007	75	30	120	75	M10	14	0,276	25	VA02	24,50
VS0395009	90	30	120	75	M10	14	0,305	25	VA02	24,50
VS0395011	110	30	120	75	M10	14	0,339	25	VA02	24,50
VS0395013	125	30	120	75	M10	14	0,370	25	VA02	27,59
VS0395015	160	30	120	75	M10	14	0,423	25	VA02	30,69


Obejma posiada rozwiązanie, które pozwala zastosować ją zarówno w punkcie stałym jak i przesuwym. Zamiana odbywa się przez obrócenie dolnej części obejmy o 180° (dookoła siebie) względem górnej. - The clips are designed in order to allow fixed and sliding point installations by simply rotating the lower part of the clip itself by 180°. - Le collier est doté d'un système permettant la réalisation d'un point fixe ou coulissant en tournant à 180° la partie inférieure du collier.

## Ocynkowana obejma M10 do punktów stałych i przesuwnych

M10 galvanized pipe clip, for  
fixed and sliding point

Collier acier M10, point  
fixe et point coulissant

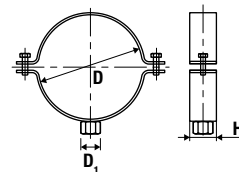
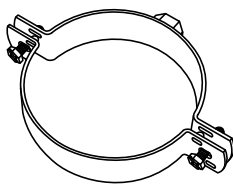


KOD	D	D <sub>1</sub>	H	kg		CL	pln/szt
VS0396021	40	M10	30	0,158	50	VA02	19,55
VS0396023	50	M10	30	0,177	50	VA02	21,41
VS0396024	56	M10	30	0,184	50	VA02	23,57
VS0396025	63	M10	30	0,199	50	VA02	23,57
VS0396027	75	M10	30	0,220	25	VA02	23,57
VS0396029	90	M10	30	0,250	25	VA02	23,57
VS0396031	110	M10	30	0,286	25	VA02	23,57
VS0396033	125	M10	30	0,309	25	VA02	26,66
VS0396035	160	M10	30	0,376	25	VA02	30,06

Obejma posiada rozwiązanie, które pozwala zastosować ją zarówno w punkcie stałym jak i przesuwym. Zamiana odbywa się przez obrócenie dolnej części obejmy o 180° (dookoła siebie) względem górnej. - The clips are designed in order to allow fixed and sliding point installations by simply rotating the lower part of the clip itself by 180°. - Le collier est doté d'un système permettant la réalisation d'un point fixe ou coulissant en tournant à 180° la partie inférieure du collier.

## Ocynkowana obejma G1/2" i G1" do punktów stałych i przesuwnych

G1/2" and G1" galvanized pipe  
clip, for fixed and sliding point  
Collier métallique G1/2" et G1"  
pour point fixe/coulissant



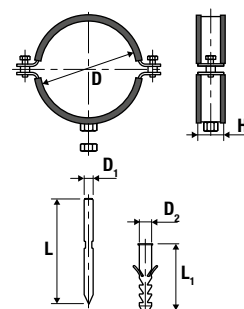
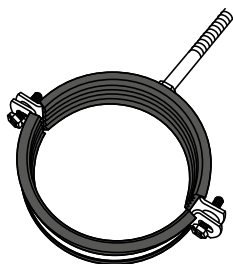
KOD	D	D <sub>1</sub>	H	kg		CL	pln/szt
VS0396001 *	40	G1/2"	30	0,176	50	VA02	16,61
VS0396003 *	50	G1/2"	30	0,194	50	VA02	18,19
VS0396004 *	56	G1/2"	30	0,208	50	VA02	20,03
VS0396005 *	63	G1/2"	30	0,215	50	VA02	20,03
VS0396007 *	75	G1/2"	30	0,240	25	VA02	20,03
VS0396009 *	90	G1/2"	30	0,268	25	VA02	20,03
VS0396011 *	110	G1/2"	30	0,308	25	VA02	20,03
VS0396013 *	125	G1/2"	30	0,329	25	VA02	22,66
VS0396015 *	160	G1/2"	30	0,394	25	VA02	25,55
VS0396050	200	G1"	40	0,651	10	VA02	95,87
VS0396052	250	G1"	40	1,270	10	VA02	105,57
VS0396054	315	G1"	40	1,564	10	VA02	110,88

\* Obejma posiada rozwiązanie, które pozwala zastosować ją zarówno w punkcie stałym jak i przesuwym. Zamiana odbywa się przez obrócenie dolnej części obejmy o 180° (dookoła siebie) względem górnej. - The clips are designed in order to allow fixed and sliding point installations by simply rotating the lower part of the clip itself by 180°. - Le collier est doté d'un système permettant la réalisation d'un point fixe ou coulissant en tournant à 180° la partie inférieure du collier.

## Ocynkowana obejma M10 z mocowaniem, z gumowym podkładem antywibracyjnym do punktów stałych i przesuwnych

M10 galvanized pipe clip with  
anchor and anti-vibration strip,  
for fixed and sliding point

Collier acier M10 avec cheville  
et point fixe et point coulissant  
et joint anti vibratile

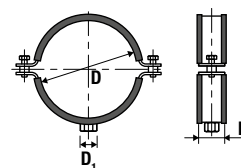
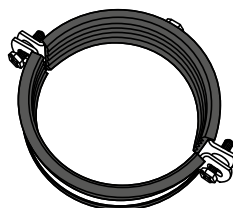



KOD	D	H	L	L <sub>1</sub>	D <sub>1</sub>	D <sub>2</sub>	Śruba - Screw - Vis	kg		CL	pln/szt
VS0395021	40	30	120	75	M10	14	M6x20	0,236	50	VA02	29,29
VS0395022	50	30	120	75	M10	14	M6x20	0,260	50	VA02	30,33
VS0395023	56	30	120	75	M10	14	M6x20	0,281	50	VA02	31,92
VS0395025	63	30	120	75	M10	14	M6x20	0,291	50	VA02	33,52
VS0395026	75	30	120	75	M10	14	M6x20	0,318	25	VA02	36,15
VS0395028	90	30	120	75	M10	14	M6x20	0,354	25	VA02	39,66
VS0395029	110	30	120	75	M10	14	M6x20	0,399	25	VA02	40,28
VS0395030	125	30	120	75	M10	14	M6x20	0,439	25	VA02	45,39
VS0395032	160	30	120	75	M10	14	M6x20	0,522	25	VA02	55,39

## Ocynkowana obejma M10 z gumowym podkładem antywibracyjnym do punktów stałych i przesuwnych

M10 galvanized pipe clip with anti-vibration strip, for fixed and sliding point

Collier acier M10 avec point fixe et point coulissant et joint anti vibratile

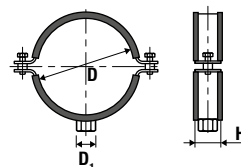
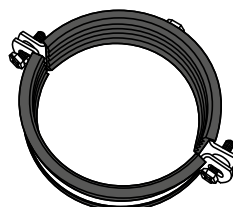



KOD	D	D <sub>1</sub>	H	kg		CL	pln/szt
VS0396081	40	M10	30	0,179	50	VA02	24,19
VS0396082	50	M10	30	0,205	50	VA02	25,22
VS0396083	56	M10	30	0,219	50	VA02	27,13
VS0396085	63	M10	30	0,234	50	VA02	28,72
VS0396086	75	M10	30	0,258	25	VA02	31,25
VS0396088	90	M10	30	0,291	25	VA02	34,55
VS0396089	110	M10	30	0,346	25	VA02	35,12
VS0396090	125	M10	30	0,384	25	VA02	40,28
VS0396092	160	M10	30	0,469	25	VA02	50,28

## Ocynkowana obejma G1/2" i G1" z gumowym podkładem antywibracyjnym do punktów stałych i przesuwnych

G1/2" and G1" galvanized pipe clip with anti-vibration strip, for fixed and sliding point

Collier acier G1/2" et G1" avec point fixe et point coulissant et joint anti vibratile

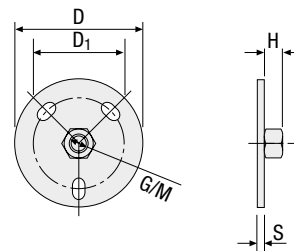
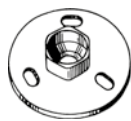


KOD	D	D <sub>1</sub>	H	kg		CL	pln/szt
VS0396061	40	G1/2"	30	0,198	50	VA02	24,60
VS0396062	50	G1/2"	30	0,224	50	VA02	25,63
VS0396063	56	G1/2"	30	0,238	50	VA02	27,59
VS0396065	63	G1/2"	30	0,252	50	VA02	29,24
VS0396066	75	G1/2"	30	0,277	25	VA02	31,82
VS0396068	90	G1/2"	30	0,319	25	VA02	35,17
VS0396069	110	G1/2"	30	0,365	25	VA02	35,79
VS0396070	125	G1/2"	30	0,401	25	VA02	41,00
VS0396072	160	G1/2"	30	0,484	25	VA02	51,21
VS0396073	200	G1"	40	1,257	10	VA02	114,49
VS0396074	250	G1"	40	1,496	10	VA02	131,66
VS0396075	315	G1"	40	1,798	10	VA02	158,94

### Okrągły kołnierz ze stali ocynkowanej do mocowania do ściany

Galvanized steel flange for fixing to wall

Bride de fixation



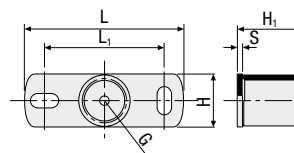
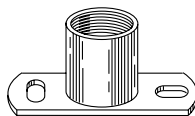
KOD	D	G/M	D <sub>1</sub>	H	s	kg		CL	pln/szt
VS0398001 •	70	G 1/2"	50	15	4	0,141	100	VA02	17,02

• Wyprzedaż. - Sell out. - Fin de stock.

### Prostokątny kołnierz ze stali ocynkowanej do mocowania do ściany

Galvanized steel plate for fixing to wall

Bride en acier zingué pour fixation sur paroi

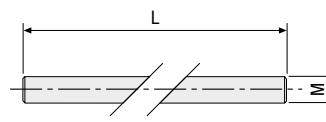
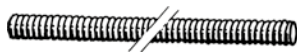


KOD	L	G	L <sub>1</sub>	H	H <sub>1</sub>	s	kg		CL	pln/szt
VS0398004	120	G1/2"	82	40	20	4	0,165	25	VA02	34,42
VS0398005	120	1"	90	40	50	4	0,236	25	VA02	37,39
VS0398007	80	M10	52	30	13	2	0,060	25	VA02	18,41

### Pręt gwintowany

Threaded rod

Tige filetée



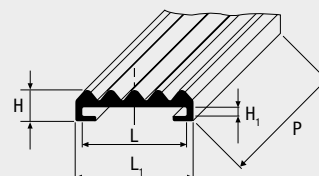
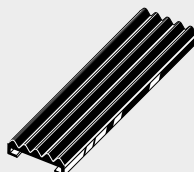
KOD	M	L	kg		CL	pln/szt
VS0408001	M10	1000	0,418	1	VA02	18,67


## Akcesoria - Akcesoriaes - Accessoires

### Podkład antywibracyjny do obejm

Anti-vibration strip for pipe clips

Bande de joint anti-vibratile pour colliers

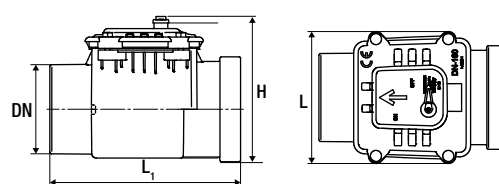
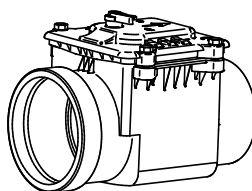



KOD	L	L <sub>1</sub>	H	H <sub>1</sub>	P (m)	kg		CL	pln/szt
VS0399222	30	36	9	3	30	5,427	1	VA02	1 050,70
VS0399224	40	46	9	4	10	2,393	1	VA02	402,09

### Zawór zwrotny klapowy

Back flow preventing valve with locking lever

Clapet simple anti-retour avec ferm



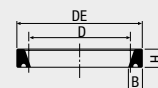
KOD	DN	L	L <sub>1</sub>	H	kg		CL	pln/szt
VS0200112	110	190	310	200	1,420	1	SL02	859,92
VS0200114	125	200	400	270	1,993	1	SL02	949,22
VS0200116	160	235	340	260	2,035	1	SL02	1 031,99
VS0200118	200	304	560	353	6,736	1	SL02	2 287,06


## Części zamienne - Spare parts - Pièces de rechange

### Uszczelka jednowargowa do zaworów zwrotnych

Single-lipped seal for back flow preventing valves

Joint 1 lèvre pour vanne anti reflux

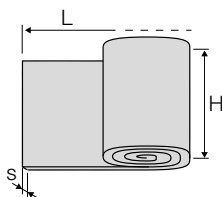


KOD	D/DN	DE	H	B	kg		CL	pln/szt
VS0391015	110/100	123,9	8,9	7,9	0,020	20	VA02	3,61
VS0391017	125/125	142,2	10,2	8,9	0,029	20	VA02	5,68
VS0391019	160/150	179,8	11,5	10,2	0,046	20	VA02	7,48
VS0391021	200/200	223,7	12,8	11,2	0,079	20	VA02	13,16

## Izolacja termoakustyczna do rur kanalizacyjnych

Thermal acoustic insulation  
for waste pipes

Isolation acoustique  
thermique pour tubes



KOD	Wymiar - Size - Dimensions LxH	s	kg	(m <sup>3</sup> )	CL	pln/m <sup>2</sup>
VS0399252	2000x1000	14	4,814	2	VA02	430,05

Samogasnąca żywica ze spienionego polietylenu o otwartych porach o grubości 12 mm i gęstości 30 kg/m<sup>3</sup>, połączona z 2mm warstwą z gumy z dodatkiem ogniochronnym GK o masie 4 kg/m<sup>2</sup>. Nie zawiera ołowiu, kadmu, bitumu i innych substancji szkodliwych.

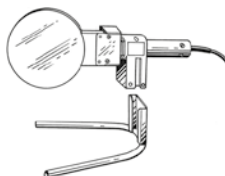
Is an open cell expanded polyurethane resin thickness 12 mm, density 30 kg/m<sup>3</sup> self-extinguishing combined with a layer of loaded rubber fireproof GK weighing 4 kg/m<sup>2</sup> with a thickness of 2 mm. It does not contain bitumen and other noxious substances.

Est une résine composée d'une mousse de polyuréthane auto-extincteur d'une épaisseur de 12 mm et de densité 30 kg/m<sup>3</sup> à cellules ouvertes, couplée à une charge couche de caoutchouc retardateur de flamme à partir de 4 kg/m<sup>2</sup> avec une épaisseur de 2 mm. Il ne contient pas de plomb, de cadmium, de bitume et d'autres substances nocives.

## Zgrzewarka talerzowa z metalową skrzynką

Welding plate with steel box

Miroir à souder avec  
coffret en acier



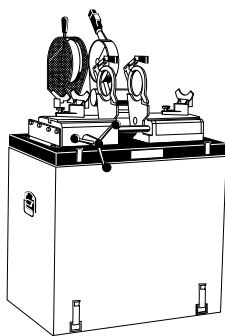
KOD	Do rur D - For pipes D - Pour tube	kg		CL	pln/szt
VS0450001	40÷160	6,293	1	VA01	1 706,70
VS0450003	110÷300	11,903	1	VA01	2 888,34

## MOD. VR 160 JOYT

Przenośna zgrzewarka  
doczołowa wyposażona  
w obejmy do trójników i  
kolan

Portable butt-welding machine  
with special clamps for branches  
and bends

Machine à souder bout à bout  
avec caisse de support équipée de  
colliers de serrage spéciaux pour  
embranchements et coudes



KOD	D	kg		CL	pln/szt
VS0468165	40÷160	102,800	1	VA01	24 807,47

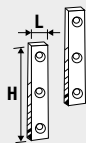
Urządzenie nie jest wyposażone w reduktory i boczne wsporniki D 56. - This item does not include reducers and side supports D 56. - Les colliers de serrage et les supports latéraux D 56 ne sont pas inclus.

## Części zamienne - Spare parts - Pièces de rechange

### Zapassowe ostrza do struga skrawającego

Spare blades for shaving mill

Lames de rechange



KOD	H	L	kg		CL	pln/szt
VS0477510	75	12	0,020	1	VA01	1 037,77

Dla kodu - For codes - Pour ref. VS0468165.

### Pas transmisyjny

Driving belt

Courroie de transmission



KOD	kg		CL	pln/szt
VS0477550	0,050	1	VA01	105,62

Dla kodu - For codes - Pour ref. VS0468165.

### Szczęka redukcyjna do podstawy centrującej

Pipe lateral support reducing bracket

Supports latéraux



KOD	D	kg		CL	pln/szt
VS0477303	40	0,170	1	VA01	85,52
VS0477305	50	0,169	1	VA01	85,52
VS0477306	56	0,162	1	VA01	85,52
VS0477307	63	0,173	1	VA01	85,52
VS0477309	75	0,150	1	VA01	85,52
VS0477311	90	0,139	1	VA01	85,52
VS0477313	110	0,123	1	VA01	85,52
VS0477315	125	0,099	1	VA01	85,52

### Reduktory do obejm

Clamp reducer

Réduction des colliers



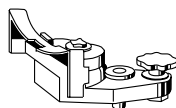
KOD	D	Mod.	kg		CL	pln/szt
VS0477260	40	niski - inferior - inférieur	0,720	1	VA01	83,19
VS0477261	50	niski - inferior - inférieur	0,720	1	VA01	83,19
VS0477262	56	niski - inferior - inférieur	0,720	1	VA01	83,19
VS0477263	63	niski - inferior - inférieur	0,720	1	VA01	83,19
VS0477264	75	niski - inferior - inférieur	0,720	1	VA01	83,19
VS0477265	90	niski - inferior - inférieur	0,720	1	VA01	83,19
VS0477266	110	niski - inferior - inférieur	0,720	1	VA01	83,19
VS0477267	125	niski - inferior - inférieur	0,720	1	VA01	83,19
VS0477268	160	niski - inferior - inférieur	0,720	1	VA01	83,19

KOD	D	Mod.	kg		CL	pln/szt
VS0477270	40	wysoki - superior - supérieur	0,720	1	VA01	83,19
VS0477271	50	wysoki - superior - supérieur	0,720	1	VA01	83,19
VS0477272	56	wysoki - superior - supérieur	0,720	1	VA01	83,19
VS0477273	63	wysoki - superior - supérieur	0,720	1	VA01	83,19
VS0477274	75	wysoki - superior - supérieur	0,720	1	VA01	83,19
VS0477275	90	wysoki - superior - supérieur	0,720	1	VA01	83,19
VS0477276	110	wysoki - superior - supérieur	0,720	1	VA01	83,19
VS0477277	125	wysoki - superior - supérieur	0,720	1	VA01	83,19
VS0477278	160	wysoki - superior - supérieur	0,720	1	VA01	83,19

### Podstawa centrująca

Lateral support

Base des supports latéraux



KOD	kg		CL	pln/szt
VS0478160	0,235	1	VA01	193,98

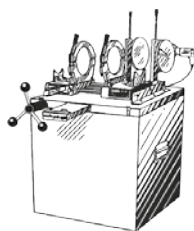
Dla kodu - For codes - Pour ref. VS0468165.

### MOD. SUPER

Przenośna zgrzewarka  
doczołowa

Portable butt welding machine

Machine à souder bout à bout  
avec caisse de support



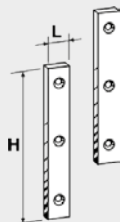
KOD	D	kg		CL	pln/szt
VS0470001	75÷250	83,000	1	VA01	29 397,90


### Części zamienne - Spare parts - Pièces de rechange

Zapassowe ostrza

Spare blades

Lames de rechange

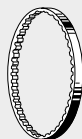


KOD	H	L	kg		CL	pln/szt
VS0477525	130	15	0,045	1	VA01	365,88



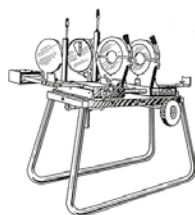
### Części zamienne - Spare parts - Pièces de rechange

Pas transmisyjny  
Driving belt  
Courroie de transmission



KOD	kg		CL	pln/szt
VS0477520	0,061	1	VA01	66,08

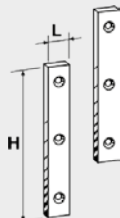
MOD. MAXI  
Zgrzewarka doczołowa  
Welding machine with carriage  
Machine à souder bout à  
bout sur structure tubulaire




KOD	D	kg		CL	pln/szt
VS0470005	90÷315	217,900	1	VA01	58 530,77

### Części zamienne - Spare parts - Pièces de rechange


Zapassowe ostrza  
Spare blades  
Lames de rechange



KOD	H	L	kg		CL	pln/szt
VS0477535	160	20	0,098	1	VA01	518,37

Pas transmisyjny  
Driving belt  
Courroie de transmission

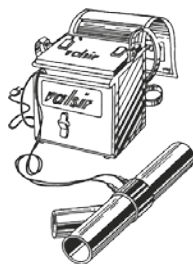



KOD	kg		CL	pln/szt
VS0477540	0,050	1	VA01	149,33

## Zgrzewarka elektrooporowa Valsir

Valsir electrofusion welding machine

Machine électrique Valsir pour manchon



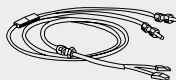
KOD	D	kg		CL	pln/szt
VS0464010	40÷160	3,365	1	VA01	3 337,40

### Części zamienne - Spare parts - Pièces de rechange

Przewód i wtyczki

Lead and plugs

Cable avec connecteurs

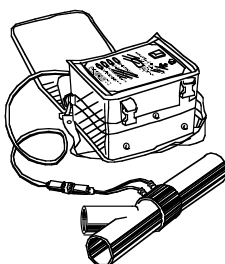



KOD	kg		CL	pln/szt
VS0464222	0,308	1	VA01	457,52

## Uniwersalna zgrzewarka elektrooporowa Valsir

Valsir universal electrofusion welding machine

Machine à souder universelle Valsir



KOD	D	kg		CL	pln/szt
VS0464333	40÷315	5,357	1	VA01	7 194,88
VS0464331 ©	40÷315	4,877	1	VA01	7 194,88

© Model Szwajcaria. - Switzerland. - Suisse.


### Części zamienne - Spare parts - Pièces de rechange

Przewód zasilający dla modelu Szwajcaria

Power cable for Switzerland

Cable d'alimentation électrique modèle Suisse



KOD	Wersja - Version - Version	kg		CL	pln/szt
VS0464431	universal S	0,782	1	VA01	629,00


## Części zamienne - Spare parts - Pièces de rechange

### Uniwersalny przewód zasilający

Universal power cable

Cable universel d'alimentation  
électrique

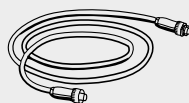


KOD	Wersja - Version - Version	kg		CL	pln/szt
VS0464433	universal S	0,764	1	VA01	629,00

### Uniwersalny przewód do wtyczek

Universal lead for plugs

Cable universel de raccordement  
aux connecteurs



KOD	Wersja - Version - Version	kg		CL	pln/szt
VS0464435	universal S	0,769	1	VA01	712,92
VS0464436	universal V1	0,643	1	VA01	712,92

### Wtyczki

Plugs

Connecteurs



KOD	D	Kolor Colour - Couleur	Wersja Version - Version	kg		CL	pln/szt
VS0464334	40÷160	żółty - yellow - jaune - A00	universal S	0,103	1	VA01	842,83
VS0464338	40÷160	żółty - yellow - jaune - A00	universal V1	0,102	1	VA01	842,83
VS0464335	200÷315	niebieski - blue - bleu A01	universal S	0,101	1	VA01	842,83
VS0464339	200÷315	niebieski - blue - bleu A01	universal V1	0,100	1	VA01	842,83
VS0464336	200÷315	czerwony - red - rouge A02	universal S	0,107	1	VA01	842,83
VS0464340	200÷315	czerwony - red - rouge A02	universal V1	0,107	1	VA01	842,83
VS0464337	40÷160	zielony - green - vert A03	universal S	0,075	1	VA01	842,83
VS0464341	40÷160	zielony - green - vert A03	universal V1	0,102	1	VA01	795,13

## Dmuchała gorącego powietrza

Hot air blower

Soufflet automatique d'air chaud



KOD	Watt	kg		CL	pln/szt
VS0476001	700	1,789	1	VA01	3 218,70

## Zdzierak do rur

Pipe scraper

Grattoir




KOD	kg		CL	pln/szt
VS0465333	0,092	1	VA01	84,52

## Obcinak krążkowy

Pipe cutter

Coupe tube



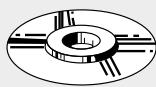
KOD	D	Mod.	kg		CL	pln/szt
VS0458011	6÷76	T1	0,550	1	VA01	622,65
VS0458003	50÷140	T2	1,309	1	VA01	896,76
VS0458005	100÷168	T3	1,384	1	VA01	1 109,79

## Części zamienne - Spare parts - Pièces de rechange

### Ostrza zapasowe do obcinaka

Spare blades

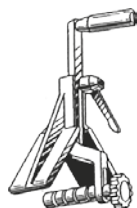
Lames de rechange




KOD	D	kg		CL	pln/szt
VS0459011	6÷76	0,006	1	VA01	123,33
VS0459003	50÷168	0,025	1	VA01	164,40

## Przyrząd do fazowania rur - Fazownik

Beveling tool  
Chanfreineur

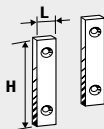



KOD	D	kg		CL	pln/szt
VS0460001	32÷160	0,803	1	VA01	781,73
VS0460003	40÷250	1,385	1	VA01	1 291,83

## Części zamienne - Spare parts - Pièces de rechange

### Ostrza zapasowe do fazownika

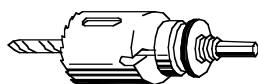
Spare blades  
Lames de rechange




KOD	D	H	L	kg		CL	pln/szt
VS0460110	32÷160	32	13	0,025	1 para - pair	VA01	294,04
VS0460111	40÷250	34	12	0,025	1 para - pair	VA01	308,85

## Rozwiertak stalowy

Steel cup miller  
Rabot à lame acier pour mandrin




KOD	D	Połączenie - Connections - Connexions	kg		CL	pln/szt
VS0465001	33	40	0,323	1	VA01	427,94
VS0465003	43	50	0,343	1	VA01	427,94

## Nóż do fazowania

Chamfering knife  
Couteau pour ébavurage

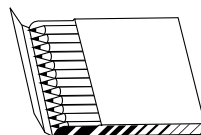



KOD	kg		CL	pln/szt
VS0473001	0,027	1 (12 szt - pcs)	VA01	633,83

## Pisaki permanentne - niezmywalne

Permanent pens

Crayons vitro graphiques




KOD	kg		CL	pln/szt
VS0474001	0,117	1 (12 szt - pcs)	VA02	410,04

## Taśma HDPE do spawania

HDPE strip for welding

Baguette pour soudure  
pour soufflet




KOD	L (cm)	mm	kg		CL	pln/szt
VS0477001	100	5,5x3	2,006	1 (2 kg)	VA02	555,62

## Pasta silikonowa

Lubricant

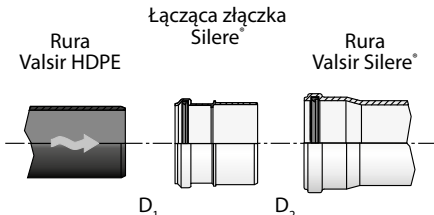
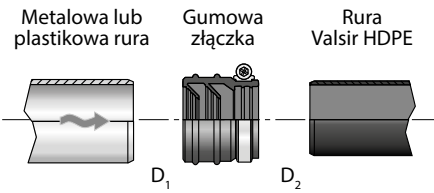
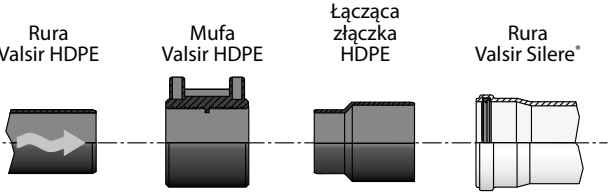
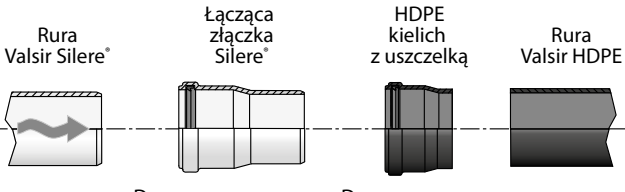
Lubrifiant



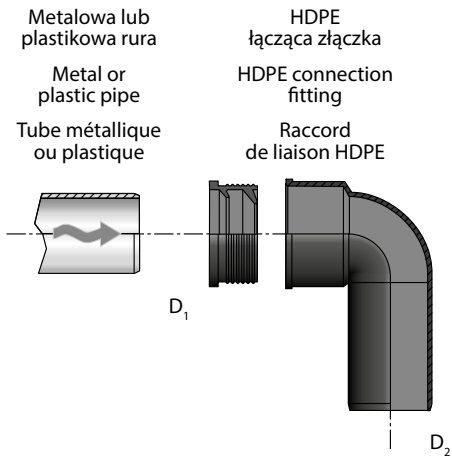
KOD	g	kg		CL	pln/szt
VS0900001	150	0,161	50	VA02	11,63
VS0900003	250	0,269	50	VA02	13,33
VS0900005	1000	1,000	1	VA02	56,57
VS0900007	5000	5,000	1	VA02	261,98

# POŁĄCZENIA RUR HDPE Z RURAMI Z RÓŻNYCH MATERIAŁÓW

## JOINTING HDPE PIPES TO OTHER MATERIALS HDPE A DES TUYAUX DE RACCORDEMENT MATÉRIEL DANS DIFFÉRENTES




Łączone systemy Connection systems Système de raccordement		Niezbędne elementy Necessary parts Articles nécessaires	D <sub>1</sub>	D <sub>2</sub>
 <p>Rura Valsir HDPE</p> <p>Łącząca złączka Silere®</p> <p>Rura Valsir Silere®</p> <p>D<sub>1</sub> D<sub>2</sub></p> <p>Valsir HDPE pipe</p> <p>Silere® connection fitting</p> <p>Valsir Silere® pipe</p> <p>Valsir HDPE tube</p> <p>Liaison Silere®</p> <p>Valsir Silere® tube</p>		VS0231001	De 40 mm	De 58 mm
		VS0231003	De 50 mm	De 58 mm
		VS0231005	De 50 mm	De 78 mm
		VS0231007	De 75 mm	De 78 mm
		VS0231013	De 125 mm	De 135 mm
 <p>Metalowa lub plastikowa rura</p> <p>Gumowa złączka</p> <p>Rura Valsir HDPE</p> <p>D<sub>1</sub> D<sub>2</sub></p> <p>Metal or plastic pipe</p> <p>Connection sleeve</p> <p>Valsir HDPE pipe</p> <p>Tube métallique ou plastique</p> <p>Manchon de raccordement</p> <p>Valsir HDPE tube</p>		VS0272011	De 104÷110 mm	De 110 mm
 <p>Rura Valsir HDPE</p> <p>Mufa Valsir HDPE</p> <p>Łącząca złączka HDPE</p> <p>Rura Valsir Silere®</p> <p>D<sub>1</sub> D<sub>1</sub> D<sub>2</sub></p> <p>Valsir HDPE pipe</p> <p>HDPE connection sleeve</p> <p>HDPE connection fitting</p> <p>Valsir Silere® pipe</p> <p>Valsir HDPE tube</p> <p>Manchon Valsir HDPE</p> <p>Raccord de liaison HDPE</p> <p>Valsir Silere® tube</p>		VS0336061 + VS0350004	De 56 mm	De 58 mm
		VS0336063 + VS0350005	De 63 mm	De 78 mm
 <p>Rura Valsir Silere®</p> <p>Łącząca złączka Silere®</p> <p>HDPE kielich z uszczelką</p> <p>Rura Valsir HDPE</p> <p>D<sub>1</sub> D<sub>2</sub></p> <p>Valsir Silere® pipe</p> <p>Silere® connection fitting</p> <p>HDPE push-fit ring seal socket</p> <p>Valsir HDPE pipe</p> <p>Valsir Silere® tube</p> <p>Raccord de liaison Silere®</p> <p>Machon à emboîter HDPE</p> <p>Valsir HDPE tube</p>		VS0237003 + VS0324003	De 58 mm	De 50 mm
		VS0237007 + VS0324007	De 78 mm	De 75 mm
		VS0237013 + VS0324013	De 135 mm	De 125 mm




Łączone systemy Connection systems Système de raccordement	Niezbędne elementy Necessary parts Articles nécessaires	D <sub>1</sub>	D <sub>2</sub>
	VS0330001 + VS0334003	De 24÷32 mm	De 32 mm
	VS0330001 + VS0334005	De 36÷40 mm	De 32 mm
	VS0330003 + VS0334003	De 24÷32 mm	De 40 mm
	VS0330003 + VS0334005	De 36÷40 mm	De 40 mm
	VS0330005 + VS0334003	De 24÷32 mm	De 50 mm
	VS0330005 + VS0334005	De 36÷40 mm	De 50 mm
	VS0330007 + VS0334007	De 36÷40 mm	De 50 mm
	VS0330007 + VS0867655	De 47÷50 mm	De 50 mm
	VS0330009 + VS0334003	De 24÷32 mm	De 56 mm
	VS0330009 + VS0334005	De 36÷40 mm	De 56 mm
	VS0330011 + VS0334007	De 36÷40 mm	De 56 mm
	VS0330011 + VS0867655	De 47÷50 mm	De 56 mm














LISTA TOWARÓW  
LIST OF PRODUCTS  
LISTE DES ARTICLES


KOD	str.		CL	pln	KOD	str.		CL	pln	KOD	str.		CL	pln
VS0200112	69	1	SL02	859,92	VS0306007	5	40	PE02	13,42	VS0310039	10	1	PE02	225,02
VS0200114	69	1	SL02	949,22	VS0306009	5	25	PE02	21,25	VS0310041	11	1	PE02	225,02
VS0200116	69	1	SL02	1 031,99	VS0306011	5	20	PE02	33,57	VS0310043	11	1	PE02	472,56
VS0200118	69	1	SL02	2 287,06	VS0306013	5	25	PE02	36,10	VS0310045	11	1	PE02	479,48
VS0300001	4	310	PE01	11,37	VS0306015	5	15	PE02	44,49	VS0310047	11	1	PE02	505,43
VS0300003	4	550	PE01	13,86	VS0306017	5	1	PE02	150,92	VS0310049	11	1	PE02	685,26
VS0300005	4	430	PE01	17,14	VS0306019	5	1	PE02	301,67	VS0310051	11	1	PE02	685,26
VS0300006	4	490	PE01	20,73	VS0306021	5	1	PE02	423,11	VS0310053	11	1	PE02	722,31
VS0300007	4	330	PE01	22,29	VS0306023	5	1	PE02	556,32	VS0310055	11	1	PE02	765,33
VS0300009	4	290	PE01	26,73	VS0306991	6	1	PE02	122,26	VS0310057	11	1	PE02	911,85
VS0300011	4	290	PE01	37,13	VS0307001	9	20	PE02	30,52	VS0310059	11	1	PE02	911,85
VS0300013	4	285	PE01	55,44	VS0307003	9	20	PE02	30,09	VS0310061	11	1	PE02	930,25
VS0300015	4	170	PE01	71,25	VS0307004	9	20	PE02	47,01	VS0310063	11	1	PE02	957,90
VS0300017	4	50	PE01	118,73	VS0307009	9	10	PE02	81,56	VS0310065	11	1	PE02	1 013,18
VS0300019	4	50	PE01	150,62	VS0308001	8	40	PE02	12,35	VS0310067	10	1	PE02	325,63
VS0300021	4	40	PE01	232,82	VS0308003	8	20	PE02	25,85	VS0310068	10	1	PE02	325,63
VS0300023	4	30	PE01	354,37	VS0308007	8	20	PE02	18,26	VS0310069	10	1	PE02	325,63
VS0300119	5	70	PE01	182,44	VS0308009	8	20	PE02	18,26	VS0310070	10	1	PE02	325,63
VS0300121	5	55	PE01	287,03	VS0309001	12	50	PE02	16,59	VS0310071	10	1	PE02	338,34
VS0300123	5	30	PE01	426,24	VS0309003	12	50	PE02	17,68	VS0310072	10	1	PE02	338,34
VS0301000	4	150	PE01	11,37	VS0309005	12	20	PE02	19,42	VS0310074	11	1	PE02	483,30
VS0301001	4	150	PE01	13,86	VS0309006	12	20	PE02	23,45	VS0310075	11	1	PE02	483,30
VS0301003	4	150	PE01	17,14	VS0309007	12	15	PE02	26,58	VS0310076	11	1	PE02	483,30
VS0301004	4	120	PE01	20,73	VS0309009	12	20	PE02	30,13	VS0310077	11	1	PE02	483,30
VS0301005	4	105	PE01	22,29	VS0309011	12	15	PE02	39,24	VS0310078	11	1	PE02	504,55
VS0301007	4	90	PE01	26,73	VS0309013	12	10	PE02	49,12	VS0310079	11	1	PE02	504,55
VS0301009	4	60	PE01	37,13	VS0309015	12	10	PE02	58,51	VS0310081	11	1	PE02	660,44
VS0301011	4	45	PE01	55,44	VS0309017	12	1	PE02	225,02	VS0310082	11	1	PE02	660,44
VS0301013	4	30	PE01	71,25	VS0309019	12	1	PE02	537,99	VS0310083	11	1	PE02	660,44
VS0301015	4	30	PE01	118,73	VS0309021	12	1	PE02	838,32	VS0310084	11	1	PE02	660,44
VS0302003	7	50	PE02	9,24	VS0309023	12	1	PE02	1 125,01	VS0310085	11	1	PE02	695,29
VS0302005	7	25	PE02	9,85	VS0309991	12	1	PE02	131,84	VS0310086	11	1	PE02	695,29
VS0302006	7	25	PE02	15,24	VS0310001	10	50	PE02	17,68	VS0310088	11	1	PE02	911,85
VS0302007	7	20	PE02	16,59	VS0310003	10	20	PE02	19,42	VS0310089	11	1	PE02	911,85
VS0302009	7	25	PE02	26,37	VS0310004	10	20	PE02	23,45	VS0310090	11	1	PE02	911,85
VS0302011	7	15	PE02	36,38	VS0310005	10	15	PE02	25,19	VS0310091	11	1	PE02	911,85
VS0302013	7	10	PE02	43,35	VS0310006	10	20	PE02	57,62	VS0310092	11	1	PE02	911,85
VS0302015	7	10	PE02	50,92	VS0310007	10	15	PE02	25,19	VS0310093	11	1	PE02	911,85
VS0302017	7	1	PE02	156,51	VS0310008	10	15	PE02	25,19	VS0310961	16	1	PE02	100,03
VS0302019	7	1	PE02	440,40	VS0310009	10	25	PE02	30,13	VS0310962	16	1	PE02	100,03
VS0302021	7	1	PE02	900,49	VS0310010	10	15	PE02	57,62	VS0310963	16	1	PE02	125,22
VS0302023	7	1	PE02	1 267,98	VS0310011	10	25	PE02	30,13	VS0310965	16	1	PE02	178,64
VS0304000	6	50	PE02	8,42	VS0310012	10	25	PE02	30,13	VS0310973	15	1	PE02	96,20
VS0304001	6	50	PE02	8,87	VS0310013	10	15	PE02	39,24	VS0310981	15	1	PE02	100,03
VS0304003	6	30	PE02	9,46	VS0310014	10	25	PE02	57,62	VS0310982	15	1	PE02	105,80
VS0304004	6	30	PE02	12,90	VS0310015	10	15	PE02	39,24	VS0310983	15	1	PE02	125,22
VS0304005	6	30	PE02	13,42	VS0310017	10	10	PE02	49,15	VS0310985	15	1	PE02	281,84
VS0304007	6	20	PE02	21,92	VS0310018	10	15	PE02	57,62	VS0310987	15	1	PE02	308,28
VS0304009	6	15	PE02	33,51	VS0310019	10	10	PE02	49,15	VS0312001	13	80	PE02	16,59
VS0304011	6	20	PE02	36,95	VS0310020	10	10	PE02	49,15	VS0312003	13	50	PE02	17,68
VS0304013	6	15	PE02	82,87	VS0310021	10	10	PE02	49,15	VS0312005	13	30	PE02	19,42
VS0304015	6	1	PE02	188,85	VS0310023	10	10	PE02	49,15	VS0312006	13	25	PE02	23,45
VS0304991	9	1	PE02	126,14	VS0310025	10	10	PE02	49,15	VS0312007	13	20	PE02	25,19
VS0305001	6	20	PE02	94,46	VS0310027	10	10	PE02	54,91	VS0312009	13	15	PE02	30,13
VS0305003	6	20	PE02	90,00	VS0310029	10	10	PE02	54,91	VS0312011	13	20	PE02	39,24
VS0305005	6	20	PE02	94,24	VS0310030	10	10	PE02	54,91	VS0312013	13	15	PE02	49,15
VS0306001	5	50	PE02	8,42	VS0310031	10	10	PE02	54,91	VS0312015	13	15	PE02	54,91
VS0306003	5	50	PE02	8,87	VS0310033	10	10	PE02	54,91	VS0312017	13	1	PE02	225,02
VS0306005	5	40	PE02	9,36	VS0310035	10	10	PE02	54,91	VS0312019	13	1	PE02	399,32
VS0306006	5	30	PE02	12,90	VS0310037	10	10	PE02	54,91	VS0312021	13	1	PE02	573,51

KOD	str.		CL	pln	KOD	str.		CL	pln	KOD	str.		CL	pln
VS0312023	13	1	PE02	743,59	VS0318017	17	5	PE02	148,09	VS0324000	29	100	PE02	14,24
VS0312025	13	15	PE02	71,87	VS0318019	17	5	PE02	148,09	VS0324001	29	50	PE02	15,16
VS0312991	15	1	PE02	142,99	VS0318020	17	5	PE02	148,09	VS0324003	29	50	PE02	17,41
VS0313001	14	50	PE02	17,68	VS0318021	17	5	PE02	165,77	VS0324004	29	30	PE02	21,25
VS0313002	14	25	PE02	23,38	VS0318022	17	5	PE02	165,77	VS0324005	29	30	PE02	22,38
VS0313003	14	25	PE02	19,42	VS0318023	17	5	PE02	165,77	VS0324006	29	40	PE02	22,38
VS0313004	14	25	PE02	30,13	VS0318025	17	5	PE02	165,77	VS0324007	29	30	PE02	27,53
VS0313005	14	20	PE02	30,13	VS0318026	17	5	PE02	165,77	VS0324009	29	25	PE02	34,94
VS0313006	14	20	PE02	30,13	VS0318031	17	5	PE02	165,77	VS0324011	29	10	PE02	40,58
VS0313007	14	20	PE02	39,24	VS0318033	17	5	PE02	148,09	VS0324013	29	10	PE02	53,12
VS0313008	14	20	PE02	32,19	VS0318034	17	5	PE02	148,09	VS0324015	29	1	PE02	115,65
VS0313009	14	20	PE02	39,24	VS0318035	17	5	PE02	148,09	VS0324017	29	1	PE02	569,92
VS0313010	14	20	PE02	30,13	VS0318036	17	5	PE02	148,09	VS0324019	29	1	PE02	902,31
VS0313011	14	15	PE02	49,15	VS0318037	17	5	PE02	148,09	VS0324021	29	1	PE02	1 079,53
VS0313012	14	20	PE02	32,19	VS0318039	17	5	PE02	165,77	VS0326001	28	25	PE02	37,75
VS0313013	14	15	PE02	49,15	VS0318040	17	5	PE02	165,77	VS0326003	28	25	PE02	37,75
VS0313014	14	15	PE02	49,15	VS0318041	17	5	PE02	165,77	VS0326111	28	20	PE02	71,35
VS0313015	14	15	PE02	49,15	VS0318042	17	5	PE02	165,77	VS0328000	31	50	PE02	31,07
VS0313017	14	15	PE02	49,15	VS0318043	17	5	PE02	165,77	VS0328001	31	20	PE02	28,78
VS0313019	14	15	PE02	49,15	VS0318045	17	5	PE02	165,77	VS0328003	31	20	PE02	29,46
VS0313021	14	15	PE02	54,91	VS0318048	17	1	PE02	379,78	VS0328004	31	20	PE02	34,73
VS0313022	14	1	PE02	253,73	VS0318049	17	1	PE02	379,78	VS0328005	31	20	PE02	36,40
VS0313023	14	1	PE02	225,02	VS0318050	18	1	PE02	379,78	VS0328007	31	10	PE02	39,58
VS0313025	14	1	PE02	225,02	VS0318055	18	1	PE02	458,57	VS0328009	31	15	PE02	45,86
VS0313027	14	1	PE02	383,84	VS0318060	18	1	PE02	519,45	VS0328012	31	10	PE02	59,70
VS0313028	14	20	PE02	105,52	VS0320001	18	5	PE02	173,15	VS0328013	31	10	PE02	76,08
VS0313029	14	1	PE02	383,84	VS0320002	18	5	PE02	173,15	VS0328015	31	1	PE02	162,78
VS0313031	14	1	PE02	392,98	VS0320003	18	5	PE02	173,15	VS0328017	31	1	PE02	665,42
VS0313033	14	1	PE02	536,53	VS0320005	18	5	PE02	173,15	VS0328019	31	1	PE02	1 155,51
VS0313034	14	20	PE02	105,52	VS0320006	18	5	PE02	173,15	VS0328021	31	1	PE02	1 890,55
VS0313035	14	1	PE02	536,53	VS0320007	18	5	PE02	195,17	VS0330001	26	40	PE02	11,23
VS0313036	14	20	PE02	105,52	VS0320008	18	5	PE02	195,17	VS0330003	26	40	PE02	9,78
VS0313037	14	1	PE02	549,48	VS0320009	18	5	PE02	195,17	VS0330005	26	40	PE02	10,27
VS0313039	14	1	PE02	557,36	VS0320011	18	5	PE02	195,17	VS0330007	26	20	PE02	11,77
VS0313041	14	1	PE02	689,32	VS0320012	18	5	PE02	195,17	VS0330009	26	20	PE02	11,77
VS0313043	14	1	PE02	693,16	VS0320013	18	5	PE02	195,17	VS0330011	26	20	PE02	11,77
VS0313045	14	1	PE02	702,85	VS0320015	19	5	PE02	173,15	VS0331005	26	20	PE02	13,29
VS0313047	14	1	PE02	712,12	VS0320016	19	5	PE02	173,15	VS0331006	26	20	PE02	14,48
VS0313049	14	1	PE02	731,18	VS0320017	19	5	PE02	173,15	VS0332000	27	50	PE02	9,08
VS0314001	15	10	PE02	107,14	VS0320018	19	5	PE02	173,15	VS0332001	27	50	PE02	9,78
VS0314003	15	10	PE02	107,14	VS0320019	19	5	PE02	173,15	VS0332003	27	50	PE02	10,40
VS0314005	15	5	PE02	107,14	VS0320021	19	5	PE02	195,17	VS0332005	27	40	PE02	10,40
VS0316001	16	25	PE02	22,13	VS0320022	19	5	PE02	195,17	VS0332007	27	40	PE02	10,40
VS0316003	16	25	PE02	59,55	VS0320023	19	5	PE02	195,17	VS0332009	27	20	PE02	11,16
VS0316011	16	10	PE02	86,95	VS0320024	19	5	PE02	195,17	VS0333001	27	40	PE02	17,81
VS0316175	20	1	PE02	361,27	VS0320025	19	5	PE02	195,17	VS0334003	28	100	VA02	4,43
VS0316179	20	1	PE02	1 349,39	VS0320027	19	5	PE02	195,17	VS0334005	28	150	VA02	4,43
VS0318001	18	5	PE02	148,09	VS0322001	19	5	PE02	195,59	VS0334007	28	100	PE02	8,53
VS0318002	18	5	PE02	148,09	VS0322002	19	5	PE02	195,59	VS0334021	28	50	PE02	4,93
VS0318003	18	5	PE02	148,09	VS0322003	19	5	PE02	195,59	VS0336000	24	50	PE02	7,17
VS0318004	18	5	PE02	148,09	VS0322004	19	5	PE02	195,59	VS0336001	24	50	PE02	6,53
VS0318005	18	5	PE02	148,09	VS0322005	19	5	PE02	195,59	VS0336002	24	50	PE02	7,59
VS0318007	18	5	PE02	165,77	VS0322007	19	5	PE02	216,63	VS0336003	24	50	PE02	8,29
VS0318008	18	5	PE02	165,77	VS0322008	19	5	PE02	216,63	VS0336005	24	50	PE02	8,29
VS0318009	18	5	PE02	165,77	VS0322009	19	5	PE02	216,63	VS0336006	24	50	PE02	8,29
VS0318010	18	5	PE02	165,77	VS0322010	19	5	PE02	216,63	VS0336007	24	50	PE02	10,85
VS0318011	18	5	PE02	165,77	VS0322011	19	5	PE02	216,63	VS0336009	24	50	PE02	10,85
VS0318013	18	5	PE02	165,77	VS0322013	19	5	PE02	220,66	VS0336010	24	50	PE02	10,85
VS0318015	17	5	PE02	148,09	VS0323090	55	5	PE02	194,13	VS0336011	24	50	PE02	10,85
VS0318016	17	5	PE02	148,09	VS0323109	55	5	PE02	187,09	VS0336013	24	30	PE02	13,05

KOD	str.		CL	pln	KOD	str.		CL	pln	KOD	str.		CL	pln
VS0336015	24	30	PE02	13,05	VS0340340	60	10	PE02	14,58	VS0345015	49	1	PE02	251,88
VS0336016	24	30	PE02	13,05	VS0340350	60	10	PE02	16,04	VS0345017	49	1	PE02	292,86
VS0336017	24	25	PE02	13,05	VS0340356	60	10	PE02	15,76	VS0345019	49	1	PE02	322,58
VS0336019	24	25	PE02	13,29	VS0340363	60	10	PE02	19,39	VS0345021	49	1	PE02	529,61
VS0336021	24	30	PE02	15,42	VS0340365	60	15	PE02	22,32	VS0345023	49	1	PE02	746,06
VS0336023	25	30	PE02	15,42	VS0340375	60	10	PE02	34,33	VS0345025	49	1	PE02	1 059,18
VS0336024	25	30	PE02	15,42	VS0340811	21	10	PE02	45,16	VS0346003	49	1	PE02	131,05
VS0336025	25	30	PE02	15,42	VS0340840	21	20	PE02	23,24	VS0346006	49	1	PE02	152,46
VS0336027	25	30	PE02	15,42	VS0340850	21	10	PE02	22,72	VS0346007	49	1	PE02	153,52
VS0336029	25	30	PE02	15,42	VS0340856	21	10	PE02	23,48	VS0346009	49	1	PE02	198,21
VS0336031	25	20	PE02	23,08	VS0340863	21	10	PE02	43,24	VS0346011	49	1	PE02	246,63
VS0336032	25	20	PE02	23,08	VS0340875	21	10	PE02	40,61	VS0346013	49	1	PE02	293,49
VS0336033	25	20	PE02	23,08	VS0340890	21	10	PE02	47,32	VS0346015	49	1	PE02	314,63
VS0336035	25	20	PE02	23,08	VS0341003	50	1	PE02	56,56	VS0346017	49	1	PE02	461,83
VS0336037	25	20	PE02	23,08	VS0341005	50	1	PE02	70,52	VS0346019	49	1	PE02	482,57
VS0336039	25	20	PE02	23,08	VS0341006	50	1	PE02	112,66	VS0346021	49	1	PE02	561,05
VS0336041	25	1	PE02	53,33	VS0341007	50	1	PE02	120,83	VS0346023	49	1	PE02	796,94
VS0336049	25	1	PE02	194,10	VS0341009	50	1	PE02	188,31	VS0346025	49	1	PE02	1 178,25
VS0336061	24	20	SL02	28,41	VS0341011	50	1	PE02	311,15	VS0347003	48	1	PE02	61,10
VS0336063	24	20	SL02	32,66	VS0342001	63	100	PE02	9,02	VS0347006	48	1	PE02	76,65
VS0338001	59	40	PE02	27,62	VS0342003	63	100	PE02	11,10	VS0347007	48	1	PE02	76,65
VS0338003	59	40	PE02	29,36	VS0342005	63	50	PE02	11,89	VS0347009	48	1	PE02	82,87
VS0338004	59	25	PE02	39,58	VS0342006	63	50	PE02	12,32	VS0347011	48	1	PE02	93,21
VS0338005	59	25	PE02	42,17	VS0342007	63	50	PE02	12,53	VS0347013	48	1	PE02	105,65
VS0338006	59	25	PE02	44,70	VS0342009	63	30	PE02	14,85	VS0347015	48	1	PE02	127,48
VS0338007	59	20	PE02	55,13	VS0342011	63	20	PE02	15,16	VS0347017	48	1	PE02	174,77
VS0338009	59	15	PE02	78,66	VS0342013	63	40	PE02	26,13	VS0347019	48	1	PE02	179,21
VS0338011	59	10	PE02	79,15	VS0342015	63	30	PE02	38,36	VS0347021	48	1	PE02	467,78
VS0338040	61	10	PE02	4,94	VS0342017	63	1	PE02	113,91	VS0347023	48	1	PE02	833,41
VS0338041	61	10	PE02	7,10	VS0342019	63	1	PE02	127,72	VS0347025	48	1	PE02	1 122,73
VS0338050	61	10	PE02	4,94	VS0342021	63	1	PE02	221,72	VS0348001	21	20	PE02	62,41
VS0338051	61	10	PE02	7,10	VS0342023	63	1	PE02	265,30	VS0348003	21	20	PE02	62,41
VS0338056	61	10	PE02	5,33	VS0343003	50	1	PE02	8,66	VS0348004	21	20	PE02	65,19
VS0338058	61	10	PE02	8,45	VS0343005	50	1	PE02	8,66	VS0348005	21	15	PE02	69,09
VS0338063	61	10	PE02	5,80	VS0343007	50	1	PE02	12,90	VS0348007	21	10	PE02	80,61
VS0338065	61	10	PE02	7,10	VS0343009	50	1	PE02	30,37	VS0348009	21	10	PE02	108,27
VS0338075	61	10	PE02	8,01	VS0343011	50	1	PE02	15,91	VS0348011	21	10	PE02	116,20
VS0338076	61	10	PE02	8,81	VS0343013	50	1	PE02	16,13	VS0348013	21	5	PE02	136,66
VS0338090	61	10	PE02	12,38	VS0343015	50	1	PE02	17,01	VS0348015	21	1	PE02	293,86
VS0338091	61	10	PE02	9,78	VS0343017	50	1	PE02	22,13	VS0348017	21	1	PE02	569,12
VS0338110	61	10	PE02	10,98	VS0343019	50	1	PE02	25,64	VS0348019	21	1	PE02	653,52
VS0338111	61	10	PE02	9,78	VS0343021	50	1	PE02	26,71	VS0348021	21	1	PE02	821,33
VS0338121	61	10	PE02	10,98	VS0343023	50	1	PE02	53,39	VS0348110	20	1	PE02	152,45
VS0338811	60	10	PE02	42,51	VS0343025	50	1	PE02	56,47	VS0348125	20	1	PE02	210,83
VS0338840	60	10	PE02	18,41	VS0344001	56	50	PE02	8,08	VS0348160	20	1	PE02	440,21
VS0338850	60	10	PE02	19,42	VS0344003	56	50	PE02	8,76	VS0349003	23	1	PE02	261,30
VS0338856	60	10	PE02	24,67	VS0344004	56	40	PE02	10,30	VS0349005	23	1	PE02	304,90
VS0338863	60	10	PE02	25,85	VS0344005	56	20	PE02	11,49	VS0350001	33	10	PE03	34,61
VS0338875	60	10	PE02	35,25	VS0344007	56	20	PE02	16,31	VS0350003	33	10	PE03	37,23
VS0338890	60	10	PE02	42,29	VS0344009	56	15	PE02	24,21	VS0350004	33	10	PE03	37,55
VS0340001	22	40	PE02	23,90	VS0344011	56	10	PE02	27,53	VS0350005	33	10	PE03	38,05
VS0340003	22	40	PE02	25,52	VS0344215	56	1	PE02	288,16	VS0350007	33	10	PE03	43,22
VS0340004	22	20	PE02	28,97	VS0344217	56	1	PE02	376,12	VS0350009	33	10	PE03	48,05
VS0340005	22	20	PE02	37,62	VS0344219	56	1	PE02	528,24	VS0350011	33	10	PE03	54,76
VS0340007	22	20	PE02	44,76	VS0345003	49	1	PE02	126,32	VS0350013	33	5	PE03	65,17
VS0340009	22	15	PE02	66,53	VS0345006	49	1	PE02	147,33	VS0350015	33	5	PE03	117,84
VS0340011	22	10	PE02	72,23	VS0345007	49	1	PE02	151,96	VS0350117	33	1	PE03	707,07
VS0340111	22	15	PE02	72,23	VS0345009	49	1	PE02	179,59	VS0350119	33	1	PE03	883,58
VS0340210	20	10	PE02	28,84	VS0345011	49	1	PE02	184,19	VS0350121	33	1	PE03	1 130,82
VS0340310	60	10	PE02	35,46	VS0345013	49	1	PE02	222,03	VS0352001	35	20	PE02	37,75

KOD	str.		CL	pln	KOD	str.		CL	pln	KOD	str.		CL	pln
VS0352003	35	20	PE02	37,75	VS0363001	40	10	PE02	138,02	VS0383007	54	15	PE02	168,46
VS0353001	51	10	PE02	63,54	VS0363003	40	10	PE02	138,02	VS0383011	54	15	PE02	62,59
VS0353003	51	15	PE02	70,37	VS0364001	45	10	SP02	121,03	VS0383013	54	15	PE02	62,59
VS0353005	52	10	PE02	86,38	VS0364003	45	10	SP02	124,92	VS0383021	54	15	PE02	63,05
VS0353007	52	10	PE02	93,48	VS0364006	45	10	SP02	117,85	VS0383023	54	15	PE02	63,05
VS0354001	53	10	SP02	144,47	VS0364008	45	10	SP02	155,30	VS0383025	54	15	PE02	85,25
VS0355017	34	1	PE02	718,21	VS0364015	45	1	SP02	114,42	VS0383029	54	15	PE02	91,68
VS0355019	34	1	PE02	915,95	VS0364052	45	1	SP02	117,60	VS0383031	54	10	PE02	91,68
VS0355021	34	1	PE02	1 356,74	VS0364059	45	1	SP02	163,64	VS0383033	54	10	PE02	213,52
VS0355023	34	1	PE02	1 882,38	VS0364090	45	10	SP02	134,20	VS0384001	62	20	PE02	120,50
VS0356001	36	20	PE02	34,94	VS0364100	45	10	SP02	222,84	VS0384003	62	20	PE02	120,50
VS0356003	36	20	PE02	37,50	VS0364111	45	10	SP02	124,92	VS0384005	62	20	PE02	120,50
VS0357017	35	1	PE02	718,21	VS0365001	38	10	PE02	79,46	VS0384007	62	20	PE02	181,93
VS0357019	35	1	PE02	915,95	VS0365003	38	10	PE02	84,03	VS0384009	62	20	PE02	181,93
VS0357021	35	1	PE02	1 370,48	VS0366001	38	10	SP02	90,45	VS0384011	62	20	PE02	181,93
VS0357023	35	1	PE02	1 882,38	VS0366003	38	10	SP02	111,67	VS0384013	62	10	PE02	181,93
VS0358001	25	50	PE02	6,95	VS0366090	37	10	SP02	153,07	VS0384015	62	10	PE02	181,93
VS0358002	25	30	PE02	7,31	VS0366113	37	10	SP02	192,79	VS0384017	62	10	PE02	210,41
VS0358003	25	30	PE02	8,53	VS0366125	36	10	SP02	124,92	VS0384019	62	5	PE02	273,19
VS0358005	25	30	PE02	8,53	VS0366133	36	10	SP02	127,75	VS0384021	62	5	PE02	323,68
VS0358006	25	30	PE02	9,02	VS0367001	39	10	SP02	97,37	VS0385013	63	10	PE02	181,93
VS0358007	25	30	PE02	9,70	VS0367003	39	10	SP02	97,37	VS0385015	63	10	PE02	181,93
VS0358009	25	30	PE02	9,70	VS0368001	45	5	PE02	315,82	VS0385017	63	10	PE02	210,41
VS0358010	25	30	PE02	10,61	VS0368003	45	5	PE02	315,82	VS0385019	63	10	PE02	273,19
VS0358011	25	30	PE02	10,73	VS0370001	46	5	PE02	175,68	VS0385021	63	5	PE02	323,68
VS0358013	25	30	PE02	14,24	VS0370002	46	5	PE02	165,47	VS0386001	38	20	VA02	16,56
VS0358015	25	30	PE02	13,05	VS0370003	46	5	PE02	175,68	VS0386003	35	20	VA02	23,36
VS0358016	25	25	PE02	13,05	VS0372001	46	5	PE02	175,68	VS0386005	52	20	PE02	24,15
VS0358017	25	25	PE02	13,05	VS0372002	46	5	PE02	165,47	VS0387001	62	10	PE02	143,73
VS0358019	25	25	PE02	13,05	VS0372003	46	5	PE02	175,68	VS0387003	62	10	PE02	143,73
VS0358021	25	25	PE02	15,94	VS0374001	47	5	PE02	419,78	VS0387007	62	5	PE02	143,73
VS0358023	25	25	PE02	15,94	VS0374003	47	5	PE02	419,78	VS0387009	62	5	PE02	143,73
VS0358024	25	25	PE02	15,94	VS0375001	47	5	PE02	261,06	VS0387011	62	5	PE02	143,73
VS0358025	25	25	PE02	15,94	VS0375003	47	5	PE02	265,23	VS0388001	41	30	PE02	18,75
VS0358027	26	25	PE02	15,94	VS0375005	47	5	PE02	306,00	VS0390001	32	20	PE02	9,26
VS0358029	26	25	PE02	15,94	VS0375110	55	1	PE02	407,35	VS0390003	32	20	PE02	9,26
VS0358031	26	10	PE02	26,28	VS0375125	55	1	PE02	498,85	VS0390004	32	20	PE02	10,79
VS0358032	26	10	PE02	26,28	VS0375160	55	1	PE02	1 080,92	VS0390005	32	20	PE02	10,79
VS0358033	26	10	PE02	26,28	VS0377111	23	50	PE02	7,38	VS0390007	32	20	PE02	11,16
VS0358035	26	10	PE02	26,28	VS0378001	43	5	PE02	204,92	VS0390009	32	20	PE02	14,58
VS0358037	26	10	PE02	26,28	VS0378003	43	5	PE02	204,92	VS0390011	32	10	PE02	12,41
VS0358038	26	5	PE02	59,91	VS0379001	44	5	PE02	236,33	VS0390013	32	10	PE02	17,14
VS0358039	26	10	PE02	26,28	VS0379003	44	5	PE02	236,33	VS0390015	32	10	PE02	20,88
VS0358040	26	5	PE02	59,91	VS0379125	44	5	PE02	216,72	VS0390017	32	1	PE02	74,18
VS0358041	24	5	PE02	258,38	VS0380001	41	5	PE02	201,75	VS0391001	30	50	VA02	2,32
VS0358043	24	5	PE02	258,38	VS0380003	41	5	PE02	201,75	VS0391003	30	50	VA02	2,32
VS0358045	24	1	PE02	305,17	VS0380005	41	5	PE02	201,75	VS0391005	30	50	VA02	2,32
VS0358047	24	1	PE02	305,17	VS0380007	41	5	PE02	201,75	VS0391007	30	50	VA02	3,55
VS0358049	24	1	PE02	305,17	VS0381001	42	5	PE02	201,75	VS0391009	30	20	VA02	2,53
VS0358055	24	1	PE02	463,72	VS0381003	42	5	PE02	201,75	VS0391011	30	20	VA02	2,84
VS0358061	24	1	PE02	626,60	VS0381005	42	5	PE02	201,75	VS0391013	30	20	VA02	3,51
VS0358063	24	1	PE02	626,60	VS0381007	42	5	PE02	201,75	VS0391015	30	20	VA02	3,61
VS0359001	8	15	PE02	38,36	VS0381125	42	5	PE02	201,75	VS0391017	30	20	VA02	5,68
VS0359003	8	10	PE02	43,94	VS0382001	54	10	PE02	112,08	VS0391019	30	20	VA02	7,48
VS0360001	39	10	PE02	85,16	VS0382003	54	10	PE02	118,36	VS0391021	30	20	VA02	13,16
VS0360003	39	10	PE02	105,93	VS0382005	54	10	PE02	157,00	VS0391023	30	1	VA02	26,55
VS0361001	36	10	PE02	106,87	VS0382007	54	10	PE02	157,00	VS0391025	30	1	VA02	35,84
VS0362001	40	15	PE02	83,81	VS0383001	54	15	PE02	60,71	VS0391222	30	20	VA02	4,07
VS0362003	40	10	PE02	93,17	VS0383003	54	15	PE02	168,46	VS0392000	29	20	PE02	2,16
VS0362125	40	10	PE02	150,53	VS0383005	54	15	PE02	168,46	VS0392001	29	20	PE02	2,29

KOD	str.		CL	pln	KOD	str.		CL	pln	KOD	str.		CL	pln
VS0392003	29	20	PE02	2,47	VS0396074	67	10	VA02	131,66	VS0464436	75	1	VA01	712,92
VS0392005	29	20	PE02	4,42	VS0396075	67	10	VA02	158,94	VS0465001	77	1	VA01	427,94
VS0392007	29	20	PE02	4,30	VS0396081	67	50	VA02	24,19	VS0465003	77	1	VA01	427,94
VS0392009	29	20	PE02	6,40	VS0396082	67	50	VA02	25,22	VS0465333	76	1	VA01	84,52
VS0392011	29	20	PE02	10,37	VS0396083	67	50	VA02	27,13	VS0468165	70	1	VA01	24 807,47
VS0392013	29	20	PE02	10,37	VS0396085	67	50	VA02	28,72	VS0470001	72	1	VA01	29 397,90
VS0392015	29	20	PE02	11,96	VS0396086	67	25	VA02	31,25	VS0470005	73	1	VA01	58 530,77
VS0392222	37	20	VA02	5,37	VS0396088	67	25	VA02	34,55	VS0473001	77	1	VA01	633,83
VS0394001	64	10	PP02	185,52	VS0396089	67	25	VA02	35,12	VS0474001	78	1	VA02	410,04
VS0394003	64	5	PP02	206,13	VS0396090	67	25	VA02	40,28	VS0476001	76	1	VA01	3 218,70
VS0394005	64	5	PP02	221,18	VS0396092	67	25	VA02	50,28	VS0477001	78	1	VA02	555,62
VS0395001	65	50	VA02	20,11	VS0398001	68	100	VA02	17,02	VS0477260	71	1	VA01	83,19
VS0395003	65	50	VA02	22,02	VS0398004	68	25	VA02	34,42	VS0477261	71	1	VA01	83,19
VS0395004	65	50	VA02	24,50	VS0398005	68	25	VA02	37,39	VS0477262	71	1	VA01	83,19
VS0395005	65	50	VA02	24,50	VS0398007	68	25	VA02	18,41	VS0477263	71	1	VA01	83,19
VS0395007	65	25	VA02	24,50	VS0399222	69	1	VA02	1 050,70	VS0477264	71	1	VA01	83,19
VS0395009	65	25	VA02	24,50	VS0399224	69	1	VA02	402,09	VS0477265	71	1	VA01	83,19
VS0395011	65	25	VA02	24,50	VS0399252	70	2	VA02	430,05	VS0477266	71	1	VA01	83,19
VS0395013	65	25	VA02	27,59	VS0408001	68	1	VA02	18,67	VS0477267	71	1	VA01	83,19
VS0395015	65	25	VA02	30,69	VS0410019	34	1	VA02	3 113,72	VS0477268	71	1	VA01	83,19
VS0395021	66	50	VA02	29,29	VS0410021	34	1	VA02	4 631,56	VS0477270	72	1	VA01	83,19
VS0395022	66	50	VA02	30,33	VS0410023	34	1	VA02	8 128,30	VS0477271	72	1	VA01	83,19
VS0395023	66	50	VA02	31,92	VS0411000	34	1	VA02	363,81	VS0477272	72	1	VA01	83,19
VS0395025	66	50	VA02	33,52	VS0411001	34	1	VA02	363,81	VS0477273	72	1	VA01	83,19
VS0395026	66	25	VA02	36,15	VS0411003	34	1	VA02	363,81	VS0477274	72	1	VA01	83,19
VS0395028	66	25	VA02	39,66	VS0411005	34	1	VA02	455,04	VS0477275	72	1	VA01	83,19
VS0395029	66	25	VA02	40,28	VS0411007	34	1	VA02	455,04	VS0477276	72	1	VA01	83,19
VS0395030	66	25	VA02	45,39	VS0411009	34	1	VA02	533,45	VS0477277	72	1	VA01	83,19
VS0395032	66	25	VA02	55,39	VS0411011	34	1	VA02	749,07	VS0477278	72	1	VA01	83,19
VS0396001	66	50	VA02	16,61	VS0411012	34	1	VA02	749,07	VS0477303	71	1	VA01	85,52
VS0396003	66	50	VA02	18,19	VS0411013	34	1	VA02	749,07	VS0477305	71	1	VA01	85,52
VS0396004	66	50	VA02	20,03	VS0411015	34	1	VA02	941,82	VS0477306	71	1	VA01	85,52
VS0396005	66	50	VA02	20,03	VS0411017	34	1	VA02	1 480,08	VS0477307	71	1	VA01	85,52
VS0396007	66	25	VA02	20,03	VS0450001	70	1	VA01	1 706,70	VS0477309	71	1	VA01	85,52
VS0396009	66	25	VA02	20,03	VS0450003	70	1	VA01	2 888,34	VS0477311	71	1	VA01	85,52
VS0396011	66	25	VA02	20,03	VS0455050	64	1	VA02	260,48	VS0477313	71	1	VA01	85,52
VS0396013	66	25	VA02	22,66	VS0458011	76	1	VA01	622,65	VS0477315	71	1	VA01	85,52
VS0396015	66	25	VA02	25,55	VS0458003	76	1	VA01	896,76	VS0477510	71	1	VA01	1 037,77
VS0396021	65	50	VA02	19,55	VS0458005	76	1	VA01	1 109,79	VS0477520	73	1	VA01	66,08
VS0396023	65	50	VA02	21,41	VS0459011	76	1	VA01	123,33	VS0477525	72	1	VA01	365,88
VS0396024	65	50	VA02	23,57	VS0459003	76	1	VA01	164,40	VS0477535	73	1	VA01	518,37
VS0396025	65	50	VA02	23,57	VS0460001	77	1	VA01	781,73	VS0477540	73	1	VA01	149,33
VS0396027	65	25	VA02	23,57	VS0460003	77	1	VA01	1 291,83	VS0477550	71	1	VA01	105,62
VS0396029	65	25	VA02	23,57	VS0460110	77	1	VA01	294,04	VS0478160	72	1	VA01	193,98
VS0396031	65	25	VA02	23,57	VS0460111	77	1	VA01	308,85	VS0503000	30	100	PP02	2,84
VS0396033	65	25	VA02	26,66	VS0464010	74	1	VA01	3 337,40	VS0503001	30	40	PP02	4,12
VS0396035	65	25	VA02	30,06	VS0464222	74	1	VA01	457,52	VS0503002	30	40	PE02	3,50
VS0396050	66	10	VA02	95,87	VS0464331	74	1	VA01	7 194,88	VS0503003	30	50	PP02	4,12
VS0396052	66	10	VA02	105,57	VS0464333	74	1	VA01	7 194,88	VS0503004	27	40	VA02	5,37
VS0396054	66	10	VA02	110,88	VS0464334	75	1	VA01	842,83	VS0503005	30	30	PP02	4,94
VS0396061	67	50	VA02	24,60	VS0464335	75	1	VA01	842,83	VS0503006	30	30	PE02	3,78
VS0396062	67	50	VA02	25,63	VS0464336	75	1	VA01	842,83	VS0503007	30	30	PP02	6,16
VS0396063	67	50	VA02	27,59	VS0464337	75	1	VA01	842,83	VS0503008	30	30	PP02	6,16
VS0396065	67	50	VA02	29,24	VS0464338	75	1	VA01	842,83	VS0503009	30	20	PP02	8,66
VS0396066	67	25	VA02	31,82	VS0464339	75	1	VA01	842,83	VS0503011	30	10	PP02	21,18
VS0396068	67	25	VA02	35,17	VS0464340	75	1	VA01	842,83	VS0503013	30	1	PP02	21,98
VS0396069	67	25	VA02	35,79	VS0464341	75	1	VA01	795,13	VS0503015	33	30	PP02	5,76
VS0396070	67	25	VA02	41,00	VS0464431	74	1	VA01	629,00	VS0503017	33	30	PP02	6,76
VS0396072	67	25	VA02	51,21	VS0464433	75	1	VA01	629,00	VS0503018	33	30	PP02	8,18
VS0396073	67	10	VA02	114,49	VS0464435	75	1	VA01	712,92	VS0503019	33	20	PP02	10,22

KOD	str.		CL	pln
VS0503031	33	10	PP02	18,80
VS0503033	33	50	PP02	4,94
VS0503222	27	40	VA02	3,15
VS0564075	51	15	PP02	63,46
VS0564101	51	10	PP02	98,15
VS0564121	51	40	PP02	29,51
VS0564122	51	40	PP02	32,63
VS0564123	51	30	PP02	30,25
VS0564131	51	15	PP02	63,46
VS0564150	51	10	PP02	90,59
VS0564175	51	10	PP02	70,12
VS0564182	51	15	PP02	63,46
VS0564190	51	10	PP02	70,57
VS0564251	51	10	PP02	74,13
VS0570001	53	40	PP02	41,52
VS0570002	53	40	PP02	41,52
VS0570003	53	40	PP02	41,52
VS0588001	38	20	VA02	22,85
VS0588003	38	20	VA02	20,63
VS0700038	56	50	PE02	40,95
VS0700043	56	50	PE02	34,23
VS0700045	56	50	PE02	35,61
VS0700051	57	20	PE02	57,75
VS0700053	57	20	PE02	54,61
VS0700058	57	20	PE02	62,40
VS0700059	58	20	PE02	31,62
VS0700060	57	20	PE02	62,40
VS0700061	58	25	PE02	33,54
VS0700062	56	40	PE02	35,61
VS0700063	56	40	PE02	36,19
VS0700180	58	20	PE02	31,47
VS0700190	58	20	PE02	32,65
VS0700238	57	40	PE02	36,19
VS0700243	57	40	PE02	29,75
VS0700245	57	50	PE02	29,75
VS0700251	57	20	PE02	53,52
VS0700253	57	20	PE02	50,62
VS0700254	57	20	PE02	55,29
VS0700256	57	20	PE02	55,29
VS0700258	57	20	PE02	55,29
VS0700260	57	20	PE02	62,12
VS0700261	58	20	PE02	35,11
VS0700262	57	40	PE02	29,75
VS0700263	57	40	PE02	31,62
VS0700401	64	12	VA02	260,17
VS0700402	64	6	VA02	479,38
VS0703021	59	10	PE02	2,46
VS0703024	59	10	PE02	3,84
VS0703027	58	10	PE02	2,46
VS0703029	58	10	PE02	2,46
VS0703114	59	10	PE02	23,96
VS0703121	59	10	PE02	23,96
VS0900001	78	50	VA02	11,63
VS0900003	78	50	VA02	13,33
VS0900005	78	1	VA02	56,57
VS0900007	78	1	VA02	261,98

Handwriting practice sheet with 15 sets of four horizontal lines. Each set is followed by a circular icon on the right side. The icons are: 1. A vertical line. 2. A vertical line with a dot. 3. A flame. 4. A teardrop. 5. A swirl. 6. A stylized 'S' shape. 7. A stylized 'U' shape. 8. A teardrop with a dot. 9. A spiral. 10. A triangle with a dot. 11. A vertical line with a dot. 12. A vertical line with a dot. 13. A vertical line with a dot. 14. A vertical line with a dot. 15. A vertical line with a dot. 16. A vertical line with a dot. 17. A vertical line with a dot. 18. A vertical line with a dot. 19. A vertical line with a dot. 20. A vertical line with a dot.

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FLUSH SYSTEMS  
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BATHROOM SYSTEMS  
SYSTEME SALLE DE BAIN



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TRAPS  
SIPHON



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RADIANT SYSTEMS  
SYSTEME PANCHER CHAUFFANT



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DRAINAGE SYSTEMS  
SYSTEME EVACUATION PLUVIALE



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