

## PP-R Systems

### Polypropylene Tube and Fittings

#### Polypropylene Tube / SDR 7.4

Code	Size	Wall Thickness	Pcs.
3201-tbe-200016	ø20	2,80	100
3201-tbe-250016	ø25	3,50	80
3201-tbe-320016	ø32	4,40	40
3201-tbe-400016	ø40	5,50	32
3201-tbe-500016	ø50	6,90	20
3201-tbe-630016	ø63	8,60	16
3201-tbe-750016	ø75	10,30	12
3201-tbe-900016	ø90	12,30	8
3201-tbe-110016	ø110	15,10	4
3201-tbe-125016	ø125		4



#### PN-20 | Polypropylene Tube

Code	Size	Wall Thickness	Pcs.
3201-tbe-200000	ø20	3,4	100
3201-tbe-250000	ø25	4,20	80
3201-tbe-320000	ø32	5,40	40
3201-tbe-400000	ø40	6,70	32
3201-tbe-500000	ø50	8,30	20
3201-tbe-630000	ø63	10,50	16
3201-tbe-750000	ø75	12,50	12
3201-tbe-900000	ø90	15,00	8
3201-tbe-110000	ø110	18,30	4
3201-tbe-125000	ø125		4



# PP-R Systems

## PN-25 | Polypropylene Tube with Fiberglass

Code	Size	Pcs.
3201-tfr-200000	ø20	100
3201-tfr-250000	ø25	80
3201-tfr-320000	ø32	40
3201-tfr-400000	ø40	32
3201-tfr-500000	ø50	20
3201-tfr-630000	ø63	16
3201-tfr-750000	ø75	12
3201-tfr-900000	ø90	8
3201-tfr-110000	ø110	4
3201-tfr-125000	ø125	4



## PN-20 | Polypropylene Tube with Fiberglass

Code	Size	Pcs.
3201-tfr-200020	ø20	100
3201-tfr-250020	ø25	80
3201-tfr-320020	ø32	40
3201-tfr-400020	ø40	32
3201-tfr-500020	ø50	20
3201-tfr-630020	ø63	16
3201-tfr-750020	ø75	12
3201-tfr-900020	ø90	8
3201-tfr-110020	ø110	4
3201-tfr-125020	ø125	4



## PP-R Systems

### PP Bridge

Code	Size	Pcs.
3201-twc-200000	ø20	140
3201-twc-250000	ø25	75
3201-twc-320000	ø32	36
3201-twc-400002	ø40	25



### PP C-Bridge

Code	Size	Pcs.
3201-twc-200001	ø20	275
3201-twc-250001	ø25	150
3201-twc-320001	ø32	70



### Elbow 45°

Code	Size	Pcs.
3211-elb-200045	ø20	575
3211-elb-250045	ø25	360
3211-elb-320045	ø32	190
3211-elb-400045	ø40	100
3211-elb-500045	ø50	56
3211-elb-630045	ø63	25
3211-elb-750045	ø75	18
3211-elb-900045	ø90	12
3211-elb-110045	ø110	6



### Elbow 90°

Code	Size	Pcs.
3211-elb-200000	ø20	500
3211-elb-250000	ø25	300
3211-elb-320000	ø32	155
3211-elb-400000	ø40	75
3211-elb-500000	ø50	40
3211-elb-630000	ø63	20
3211-elb-750000	ø75	16
3211-elb-900000	ø90	6
3211-elb-110000	ø110	4



## PP-R Systems

### Tail Elbow 45°

Code	Size	Pcs.
3211-elt-200045	ø20	400
3211-elt-250045	ø25	250



### Tail Elbow 90°

Code	Size	Pcs.
3211-elt-200000	ø20	400
3211-elt-250000	ø25	250



### Tail Elbow 90°

Code	Size	Pcs.
3211-muf-200000	ø20	675
3211-muf-250000	ø25	400
3211-muf-320000	ø32	225
3211-muf-400000	ø40	140
3211-muf-500000	ø50	80
3211-muf-630000	ø63	48
3211-muf-750000	ø75	28
3211-muf-900000	ø90	20
3211-muf-110000	ø110	10



### Reducing Female Coupling

Code	Size	Pcs.
3211-rdf-252000	ø25 x 20	400
3211-rdf-322000	ø32 x 20	250
3211-rdf-322500	ø32 x 25	250
3211-rdf-402000	ø40 x 20	175
3211-rdf-402500	ø40 x 25	175



## Reducing Coupling

Code	Size	Pcs.
3211-rdc-252000	ø25 x 20	700
3211-rdc-322000	ø32 x 20	500
3211-rdc-322500	ø32 x 25	400
3211-rdc-402000	ø40 x 20	325
3211-rdc-402500	ø40 x 25	300
3211-rdc-403200	ø40 x 32	225
3211-rdc-502000	ø50 x 20	175
3211-rdc-502500	ø50 x 25	175
3211-rdc-503200	ø50 x 32	150
3211-rdc-504000	ø50 x 40	110
3211-rdc-632000	ø63 x 20	100
3211-rdc-632500	ø63 x 25	100
3211-rdc-633200	ø63 x 32	80
3211-rdc-634000	ø63 x 40	80
3211-rdc-635000	ø63 x 50	56
3211-rdc-752000	ø75 x 20	70
3211-rdc-752500	ø75 x 25	70
3211-rdc-753200	ø75 x 32	55
3211-rdc-754000	ø75 x 40	55
3211-rdc-755000	ø75 x 50	50
3211-rdc-756300	ø75 x 63	36
3211-rdc-905000	ø90 x 50	36
3211-rdc-906300	ø90 x 63	36
3211-rdc-907500	ø90 x 75	27
3211-rdc-110630	ø110 x 63	16
3211-rdc-110750	ø110 x 75	16
3211-rdc-110900	ø110 x 90	16



## Tee

Code	Size	Pcs.
3211-teo-200000	ø20	350
3211-teo-250000	ø25	200
3211-teo-320000	ø32	100
3211-teo-400000	ø40	60
3211-teo-500000	ø50	30
3211-teo-630000	ø63	16
3211-teo-750000	ø75	12
3211-teo-900000	ø90	4
3211-teo-110000	ø110	2



## Inegal Tee

Code	Size	Pcs.
3211-tio-202520	ø20 x 25 x 20	250
3211-tio-252020	ø25 x 20 x 20	225
3211-tio-252025	ø25 x 20 x 25	240
3211-tio-252520	ø25 x 25 x 20	200
3211-tio-253225	ø25 x 32 x 25	120
3211-tio-322020	ø32 x 20 x 20	130
3211-tio-322025	ø32 x 20 x 25	125
3211-tio-322032	ø32 x 20 x 32	115
3211-tio-322520	ø32 x 25 x 20	125
3211-tio-322525	ø32 x 25 x 25	120
3211-tio-322532	ø32 x 25 x 32	115
3211-tio-323225	ø32 x 32 x 25	120
3211-tio-402040	ø40 x 20 x 40	80
3211-tio-402540	ø40 x 25 x 40	80
3211-tio-403240	ø40 x 32 x 40	65
3211-tio-502050	ø50 x 20 x 50	40
3211-tio-502550	ø50 x 25 x 50	40
3211-tio-503250	ø50 x 32 x 50	36
3211-tio-504050	ø50 x 40 x 50	36
3211-tio-632063	ø63 x 20 x 63	24
3211-tio-632563	ø63 x 25 x 63	24
3211-tio-633263	ø63 x 32 x 63	24
3211-tio-634063	ø63 x 40 x 63	20
3211-tio-635063	ø63 x 50 x 63	20
3211-tio-752075	ø75 x 20 x 75	12
3211-tio-752575	ø75 x 25 x 75	12
3211-tio-753275	ø75 x 32 x 75	12
3211-tio-754075	ø75 x 40 x 75	12
3211-tio-755075	ø75 x 50 x 75	12
3211-tio-756375	ø75 x 63 x 75	12
3211-tio-905090	ø90 x 50 x 90	6
3211-tio-906390	ø90 x 63 x 90	6
3211-tio-115011	ø110 x 50 x 110	3
3211-tio-116311	ø110 x 63 x 110	3



## Cross

Code	Size	Pcs.
3211-crs-200000	ø20	240
3211-crs-250000	ø25	140
3211-crs-320000	ø32	75



# PP-R Systems

## Reduction Elbow

Code	Size	Pcs.
3211-elr-252000	ø25 x 20	300
3211-elr-322500	ø32 x 25	200



## Wallplate Elbow - Double

Code	Size	Pcs.
3221-btt-200b00	ø20 x 1/2"	60
3221-btt-250b00	ø25 x 1/2"	55



## Special Wallplate Elbow - Double

Code	Size	Pcs.
3221-bat-200b04	ø20 x 1/2"	48
3221-bat-250b04	ø25 x 1/2"	48



## Special Wallplate Elbow - Double Grilled

Code	Size	Pcs.
3221-bat-200b05	ø20 x 1/2"	56
3221-bat-250b05	ø25 x 1/2"	50



## Wallplate Elbow Female - Long

Code	Size	Pcs.
3221-btl-200b00	ø20 x 1/2"	75



## Wallplate Elbow Female

Code	Size	Pcs.
3221-bat-200b01	ø20 x 1/2"	100
3221-bat-250b01	ø25 x 1/2"	80
3221-bat-250c01	ø25 x 3/4"	80



## Wallplate Elbow Male

Code	Size	Pcs.
3221-btm-200b00	ø20 x 1/2"	100



## Female Elbow

Code	Size	Pcs.
3221-efo-200b00	ø20 x 1/2"	160
3221-efo-200c00	ø20 x 3/4"	130
3221-efo-250b00	ø25 x 1/2"	120
3221-efo-250c00	ø25 x 3/4"	100
3221-efo-320c00	ø32 x 3/4"	60
3221-efo-321000	ø32 x 1"	56
3221-efo-401a06	ø40 x 1 1/4"	28



## Male Elbow

Code	Size	Pcs.
3221-emo-200b00	ø20 x 1/2"	150
3221-emo-200c00	ø20 x 3/4"	110
3221-emo-250b00	ø25 x 1/2"	110
3221-emo-250c00	ø25 x 3/4"	100
3221-emo-320c00	ø32 x 3/4"	60
3221-emo-321000	ø32 x 1"	50
3221-emo-401a06	ø40 x 1 1/4"	24



## PP-R Systems

### Female Nipple

Code	Size	Pcs.
3221-nfo-200b00	ø20 x 1/2"	200
3221-nfo-200c00	ø20 x 3/4"	180
3221-nfo-250b00	ø25 x 1/2"	200
3221-nfo-250c00	ø25 x 3/4"	150
3221-nfo-320b00	ø32 x 1/2"	110
3221-nfo-320c00	ø32 x 3/4"	110
3221-nfo-321000	ø32 x 1"	90



### Male Nipple

Code	Size	Pcs.
3221-nmo-200b00	ø20 x 1/2"	200
3221-nmo-200c00	ø20 x 3/4"	150
3221-nmo-250b00	ø25 x 1/2"	180
3221-nmo-250c00	ø25 x 3/4"	140
3221-nmo-320b00	ø32 x 1/2"	100
3221-nmo-320c00	ø32 x 3/4"	100
3221-nmo-321000	ø32 x 1"	90



### Female Tee

Code	Size	Pcs.
3221-tfo-200b20	ø20 x 1/2" x 20	125
3221-tfo-200c20	ø20 x 3/4" x 20	100
3221-tfo-250b25	ø25 x 1/2" x 25	100
3221-tfo-250c25	ø25 x 3/4" x 25	80
3221-tfo-320c32	ø32 x 3/4" x 32	45
3221-tfo-321032	ø32 x 1" x 32	40
3221-tfo-401a40	ø40 x 1 1/4" x 40	20



### Male Tee

Code	Size	Pcs.
3221-tmo-200b20	ø20 x 1/2" x 20	120
3221-tmo-200c20	ø20 x 3/4" x 20	90
3221-tmo-250b25	ø25 x 1/2" x 25	100
3221-tmo-250c25	ø25 x 3/4" x 25	80
3221-tmo-320c32	ø32 x 3/4" x 32	45
3221-tmo-321032	ø32 x 1" x 32	40
3221-tmo-401a40	ø40 x 1 1/4" x 40	18



## Female Nipple - Octa

Code	Size	Pcs.
3221-nfo-321006	ø32 x 1"	70
3221-nfo-401a06	ø40 x 1 1/4"	40
3221-nfo-501b06	ø50 x 1 1/2"	30
3221-nfo-632006	ø63 x 2"	18
3221-nfo-752b06	ø75 x 2 1/2"	12
3221-nfo-903006	ø90 x 3"	7
3221-nfo-110406	ø110 x 4"	3



## Male Nipple - Octa

Code	Size	Pcs.
3221-nmo-321006	ø32 x 1"	80
3221-nmo-401a06	ø40 x 1 1/4"	36
3221-nmo-501b06	ø50 x 1 1/2"	36
3221-nmo-632006	ø63 x 2"	15
3221-nmo-752b06	ø75 x 2 1/2"	8
3221-nmo-903006	ø90 x 3"	6
3221-nmo-110406	ø110 x 4"	3



## Transition Nipple - Female

Code	Size	Pcs.
3251-tnf-200c00	ø20 x 3/4"	200
3251-tnf-251000	ø25 x 1"	200
3251-tnf-321a00	ø32 x 1 1/4"	125



## Transition Nipple - Male

Code	Size	Pcs.
3251-tnm-200c00	ø20 x 3/4"	200
3251-tnm-251000	ø25 x 1"	200
3251-tnm-321a00	ø32 x 1 1/4"	150



## PP-R Systems

### Male Tail Nipple

Code	Size	Pcs.
3221-nmo-200b01	ø20 x 1/2"	100
3221-nmo-250c01	ø25 x 3/4"	80



### Female Nipple for PE-X Connection

Code	Size	Pcs.
3221-nfo-200b16	ø20 x 16	180



### Male Nipple for PE-X Connection

Code	Size	Pcs.
3221-nmt-200b16	ø20 x 16	250



### Elbow with Loose Nut

Code	Size	Pcs.
3221-tue-200b00	ø20 x 1/2"	180
3221-tue-200c00	ø20 x 3/4"	150
3221-tue-250c00	ø25 x 3/4"	100
3221-tue-251000	ø25 x 1"	80
3221-tue-321000	ø32 x 1"	50
3221-tue-321a00	ø32 x 1 1/4"	40



### Nipple with Loose Nut

Code	Size	Pcs.
3221-tun-200b00	ø20 x 1/2"	210
3221-tun-200c00	ø20 x 3/4"	210
3221-tun-250c00	ø25 x 3/4"	150
3221-tun-251000	ø25 x 1"	80
3221-tun-321000	ø32 x 1"	80
3221-tun-321a00	ø32 x 1 1/4"	80



# PP-R Systems

## Tee with Loose Nut

Code	Size	Pcs.
3221-tut-200b00	ø20 x 1/2" x 20	150
3221-tut-200c00	ø20 x 3/4" x 20	80
3221-tut-250c00	ø25 x 3/4" x 25	60
3221-tut-251000	ø25 x 1" x 25	60
3221-tut-321000	ø32 x 1" x 32	40
3221-tut-321a00	ø32 x 1 1/4" x 32	30



## Filter - Female / Female

Code	Size	Pcs.
3221-flt-200001	ø20	100
3221-flt-250001	ø25	60
3221-flt-320001	ø32	30



## Filter - Male / Female

Code	Size	Pcs.
3221-flt-200000	ø20	100
3221-flt-250000	ø25	60
3221-flt-320000	ø32	30



## Sealed Filter - Female / Female

Code	Size	Pcs.
3221-fls-200001	ø20	100
3221-fls-250001	ø25	60
3221-fls-320001	ø32	30



## Sealed Filter - Male / Female

Code	Size	Pcs.
3221-fls-200000	ø20	100
3221-fls-250000	ø25	50
3221-fls-320000	ø32	30



## PP-R Systems

### Ball Valve for Radiator - Straight

Code	Size	Pcs.
3241-vlr-200b00	ø20 x 1/2"	60
3241-vlr-200c00	ø20 x 3/4"	60
3241-vlr-250b00	ø25 x 1/2"	60
3241-vlr-250c00	ø25 x 3/4"	50



### Ball Valve for Radiator - Elbow

Code	Size	Pcs.
3241-vre-200b00	ø20 x 1/2"	60
3241-vre-200c00	ø20 x 3/4"	50
3241-vre-250b00	ø25 x 1/2"	50
3241-vre-250c00	ø25 x 3/4"	40

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### Valve for Radiator - Straight

Code	Size	Pcs.
3241-vsr-200b00	ø20 x 1/2"	60



### Valve for Radiator - Elbow

Code	Size	Pcs.
3241-vse-200b00	ø20 x 1/2"	60



### Elbow with Transition Union for Radiator

Code	Size	Pcs.
3221-tre-200b00	ø20 x 1/2"	100



## Boiler Set

Code	Size	Pcs.
3261-kmb-000008	Fittings Nipple for Boiler 8	12
3261-kmb-000010	Fittings Nipple for Boiler 10	12
3261-kme-000008	Fittings Elbow for Boiler 8	12
3261-kme-000010	Fittings Elbow for Boiler 10	12
3261-knm-000008	Fittings Male Nipple for Boiler 8	12
3261-knm-000010	Fittings Male Nipple for Boiler 10	12
3261-kem-000008	Fittings Male Elbow for Boiler 8	12
3261-kem-000010	Fittings Male Elbow for Boiler 10	12



## Eco Boiler Set with Metal

Code	Size	Pcs.
3261-kmb-100008	Fittings Nipple for Boiler 8	24
3261-kmb-100010	Fittings Nipple for Boiler 10	24
3261-kme-100008	Fittings Elbow for Boiler 8	24
3261-kme-100010	Fittings Elbow for Boiler 10	24



## Ball Valve

Code	Size	Pcs.
3241-vlb-200003	ø20	60
3241-vlb-250003	ø25	50
3241-vlb-320003	ø32	25
3241-vlb-400003	ø40	15
3241-vlb-500003	ø50	10
3241-vlb-630003	ø63	6
3241-vlb-750003	ø75	5



## Ball Valve - Long

Code	Size	Pcs.
3241-vlb-200002	ø20	40
3241-vlb-250002	ø25	30



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### Ball Valve with Female Nipple

Code	Size	Pcs.
3241-vlb-200b04	ø20 x 1/2"	55
3241-vlb-250c04	ø25 x 3/4"	45
3241-vlb-321004	ø32 x 1"	20



### Ball Valve with Male Nipple

Code	Size	Pcs.
3241-vlb-200b05	ø20 x 1/2"	50
3241-vlb-250c05	ø25 x 3/4"	40

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### Mini Ball Valve - Butterfly

Code	Size	Pcs.
3241-vlm-200001	ø20 ●	120
3241-vlm-200002	ø20 ●	120
3241-vlm-250001	ø25 ●	80
3241-vlm-250002	ø25 ●	80
3241-vlm-320001	ø32 ●	40
3241-vlm-320002	ø32 ●	40

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### Mini Ball Valve

Code	Size	Pcs.
3241-vlm-200000	ø20	100
3241-vlm-250000	ø25	75
3241-vlm-320000	ø32	40

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### Valve

Code	Size	Pcs.
3241-vlf-200000	ø20	40
3241-vlf-250000	ø25	30
3241-vlf-320000	ø32	20
3241-vlf-400000	ø40	15



## Chrome-Plated Valve - Hidden

Code	Size	Pcs.
3241-vle-200000	ø20 x 1/2"	45
3241-vle-250000	ø25 x 3/4"	35
3241-vle-320000	ø32 x 1"	25



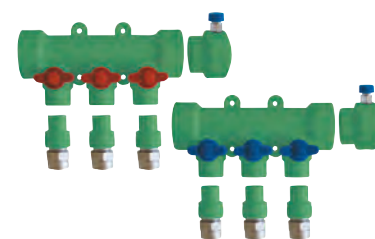
## Chrome-Plated Valve

Code	Size	Pcs.
3241-vlk-200000	ø20 x 1/2"	30
3241-vlk-250000	ø25 x 3/4"	25
3241-vlk-320000	ø32 x 1"	20



## PP Manifold

Code	Size		Pcs.
931-set-1400220	2 ways	● ●	9
931-set-1400320	3 ways	● ● ●	6
931-set-1400420	4 ways	● ● ● ●	5
931-set-1400520	5 ways	● ● ● ● ●	4
931-set-1400620	6 ways		3
931-set-1400720	7 ways		3
931-set-1400820	8 ways		3



## Valve - Laundry

Code	Size	Pcs.
3243-vlc-0b0c00	ø1/2" x 3/4"	45

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## Transition Union - Female

Code	Size	Pcs.
3271-tuf-200b00	ø20 x 1/2"	200
3271-tuf-250c00	ø25 x 3/4"	120
3271-tuf-321000	ø32 x 1"	80
3271-tuf-401a00	ø40 x 1 1/4"	50
3251-tuf-200b00	ø20 x 1/2"	200
3251-tuf-200c00	ø20 x 3/4"	200
3251-tuf-250b00	ø25 x 1/2"	120
3251-tuf-250c00	ø25 x 3/4"	100
3251-tuf-251000	ø25 x 1"	120
3251-tuf-320c00	ø32 x 3/4"	100
3251-tuf-321000	ø32 x 1"	80
3251-tuf-321a00	ø32 x 1 1/4"	80
3251-tuf-401a00	ø40 x 1 1/4"	50
3251-tuf-501b00	ø50 x 1 1/2"	36
3251-tuf-632000	ø63 x 2"	14
3251-tuf-752b00	ø75 x 2 1/2"	12
3251-tuf-903000	ø90 x 3"	6
3251-tuf-110400	ø110 x 4"	3

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## Transition Union - Male

Code	Size	Pcs.
3271-tum-200b00	ø20 x 1/2"	200
3271-tum-250c00	ø25 x 3/4"	120
3271-tum-321000	ø32 x 1"	80
3271-tum-401a00	ø40 x 1 1/4"	40
3251-tum-200b00	ø20 x 1/2"	180
3251-tum-200c00	ø20 x 3/4"	200
3251-tum-250b00	ø25 x 1/2"	120
3251-tum-250c00	ø25 x 3/4"	100
3251-tum-251000	ø25 x 1"	100
3251-tum-320c00	ø32 x 3/4"	80
3251-tum-321000	ø32 x 1"	70
3251-tum-321a00	ø32 x 1 1/4"	70
3251-tum-401a00	ø40 x 1 1/4"	40
3251-tum-501b00	ø50 x 1 1/2"	30
3251-tum-632000	ø63 x 2"	14
3251-tum-752b00	ø75 x 2 1/2"	8
3251-tum-903000	ø90 x 3"	5
3251-tum-110400	ø110 x 4"	3



## PP-R Systems

### Coupling with Loose Nut

Code	Size	Pcs.
3251 -mft- 200000	ø20	150
3251 -mft- 250000	ø25	90
3251 -mft- 320000	ø32	60



### Flange Set

Code	Size	Pcs.
3221-sls-500000	ø50	25
3221-sls-630000	ø63	15
3221-sls-750000	ø75	10
3221-sls-900000	ø90	10
3221-sls-110000	ø110	6



### Single Bracket

Code	Size	Pcs.
3592-bck-160001	ø16	5000
3592-bck-202201	ø20 x 22	5000
3592-bck-252701	ø25 x 27	5000
3592-bck-323401	ø32 x 34	2000
3592-bck-404201	ø40 x 42	2000
3592-bck-505201	ø50 x 52	1500



### Double Bracket

Code	Size	Pcs.
3592-bck-160000	ø16 x 16	3000
3592-bck-202200	ø20 x 22	2500
3592-bck-252700	ø25 x 27	2000
3592-bck-323400	ø32 x 34	1000



## PP-R Systems

### Stopend

Code	Size	Pcs.
3291-ste-200000	ø20	1125
3291-ste-250000	ø25	750
3291-ste-320000	ø32	375
3291-ste-400000	ø40	220
3291-ste-500000	ø50	115
3291-ste-630000	ø63	60
3291-ste-750000	ø75	36
3291-ste-900000	ø90	24
3291-ste-110000	ø110	12



### Stopend

Code	Size	Pcs.
3291-ste-200b00	ø20 x 1/2"	800
3291-ste-250c00	ø25 x 3/4"	600
3291-ste-321000	ø32 x 1"	400



### Stopend

Code	Size	Pcs.
3291-stu-200000	ø20 x 1/2"	275



## Welding Machine

Code	Size	Pcs.
3292-wmh-000001	Standard	
3292-wmh-000000	Model 2006	5



## Welding Apparatus

Code	Size	Pcs.
3292-die-200000	ø20	1
3292-die-250000	ø25	1
3292-die-320000	ø32	1
3292-die-400000	ø40	1
3292-die-500000	ø50	1
3292-die-630000	ø63	1
3292-die-750000	ø75	1
3292-die-900000	ø90	1
3292-die-110000	ø110	1



## Tube Sharpener

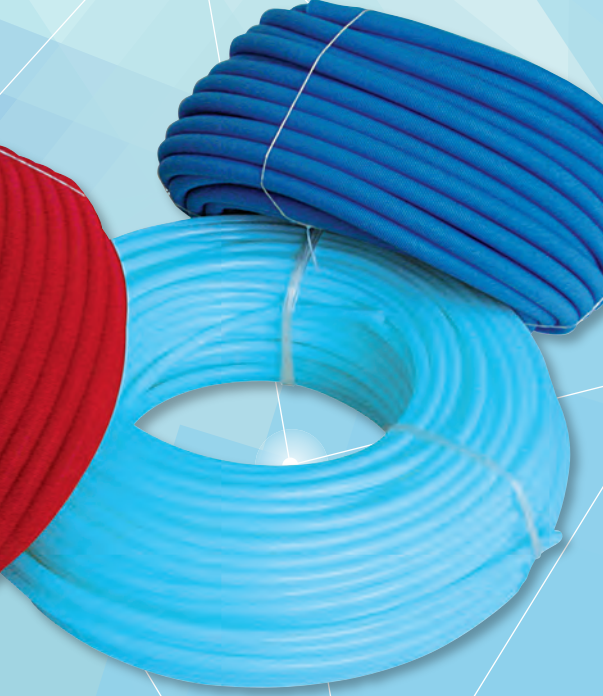
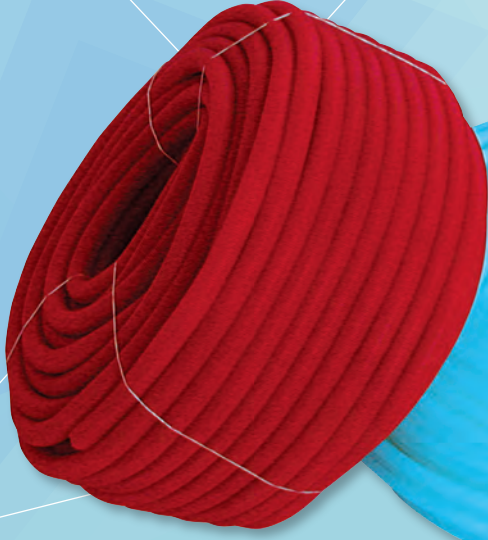
Code	Size	Pcs.
3292-shv-202500	ø20 x 25	
3292-shv-324000	ø32 x 40	
3292-shv-506300	ø50 x 63	
3292-shv-759000	ø75 x 90	



## Scissors

Code	Size	Pcs.
3592-sss-000002	16 / 42	100
3592-sss-000003	16 / 42 Automatic	50





# Floor Heating Systems

# Floor Heating Systems

## PE-X Tube and Fittings

### PE-X and Spiral Pipes

Code	Size	Pcs.
3512-pxb-162016	PE-X $\varnothing$ 16 x 2	160
3518-pxs-162010	PE-X $\varnothing$ 16 x 2 S <span style="color: blue;">●</span>	100
3517-pxs-162010	PE-X $\varnothing$ 16 x 2 S <span style="color: red;">●</span>	100
3512-pxo-162016	PE-X $\varnothing$ 16 x 2 O	160
3518-pos-162010	PE-X $\varnothing$ 16 x 2 S+O <span style="color: blue;">●</span>	100
3517-pos-162010	PE-X $\varnothing$ 16 x 2 S+O <span style="color: red;">●</span>	100
3512-spb-190010	Spiral $\varnothing$ 19 <span style="color: blue;">●</span>	100
3512-spr-190010	Spiral $\varnothing$ 19 <span style="color: red;">●</span>	100

S= Spiral covered    O= Oksygen barriered



### PE-RT and Spiral Pipes

Code	Size	Pcs.
3852-prb-162024	PE-RT 16 x 2	240
3858-prs-162010	PE-RT 16 x 2 S <span style="color: blue;">●</span>	100
3857-prs-162010	PE-RT 16 x 2 S <span style="color: red;">●</span>	100
3852-pro-162024	PE-RT 16 x 2 O	240
3858-pos-162010	PE-RT 16 x 2 S+C <span style="color: blue;">●</span>	100
3857-pos-162010	PE-RT 16 x 2 S+C <span style="color: red;">●</span>	100

S= Spiral covered    O= Oksygen barriered



### Pipe Fixture for PE-X

Code	Size	Pcs.
3595-pfp-250000	for Spiral	5000



### Angle Pipe Guide

Code	Size	Pcs.
3595-ccr-000000	$\varnothing$ 16	250



# Floor Heating Systems

## By-Pass

Code	Size	Pcs.
3411-byp-160b00	ø16 x 1/2"	20



## Taps Terminal Elbow

Code	Size	Pcs.
3411-elc-0b0100	1/2" x 105° Short	75
3411-elc-0b0105	1/2" x 105° Long	75



## Connection Tube Upper Coupling

Code	Size	Pcs.
3411-cnt-150b00	ø15 x 1/2"	200



## Connection Tube Lower Coupling

Code	Size	Pcs.
3411-cnt-151600	ø15 / 16 x 2	125



## Connection Tube Upper Elbow

Code	Size	Pcs.
3411-cne-150b00	ø15 x 1/2"	150



## Wall Plate Elbow

Code	Size	Pcs.
3411-ewf-160b00	ø16 x 1/2"	75



# Floor Heating Systems

## Self Valved Manifolds - Blue - Standard Type

Code	Size	Pcs.
3312-vpf-100216	1" 2 Ways	20
3312-vpf-100316	1" 3 Ways	15
3312-vpf-100416	1" 4 Ways	10
3312-vpf-100516	1" 5 Ways	10
3312-vpf-100616	1" 6 Ways	10
3312-vpf-100716	1" 7 Ways	5
3312-vpf-100816	1" 8 Ways	5
3312-vpf-100916	1" 9 Ways	5
3312-vpf-101016	1" 10 Ways	5
3312-vpf-101116	1" 11 Ways	5
3312-vpf-101216	1" 12 Ways	5
3312-vpf-101316	1" 13 Ways	5
3312-vpf-1a0216	1 1/4" 2 Ways	16
3312-vpf-1a0316	1 1/4" 3 Ways	12
3312-vpf-1a0416	1 1/4" 4 Ways	8
3312-vpf-1a0516	1 1/4" 5 Ways	8
3312-vpf-1a0616	1 1/4" 6 Ways	8
3312-vpf-1a0716	1 1/4" 7 Ways	4
3312-vpf-1a0816	1 1/4" 8 Ways	4
3312-vpf-1a0916	1 1/4" 9 Ways	4
3312-vpf-1a1016	1 1/4" 10 Ways	4
3312-vpf-1a1116	1 1/4" 11 Ways	4
3312-vpf-1a1216	1 1/4" 12 Ways	4
3312-vpf-1a1316	1 1/4" 13 Ways	4



# Floor Heating Systems

## Self Valved Manifolds - Red - Standard Type

Code	Size	Pcs.
3313-vpf-100216	1" 2 Ways	20
3313-vpf-100316	1" 3 Ways	15
3313-vpf-100416	1" 4 Ways	10
3313-vpf-100516	1" 5 Ways	10
3313-vpf-100616	1" 6 Ways	10
3313-vpf-100716	1" 7 Ways	5
3313-vpf-100816	1" 8 Ways	5
3313-vpf-100916	1" 9 Ways	5
3313-vpf-101016	1" 10 Ways	5
3313-vpf-101116	1" 11 Ways	5
3313-vpf-101216	1" 12 Ways	5
3313-vpf-101316	1" 13 Ways	5
3313-vpf-1a0216	1 1/4" 2 Ways	16
3313-vpf-1a0316	1 1/4" 3 Ways	12
3313-vpf-1a0416	1 1/4" 4 Ways	8
3313-vpf-1a0516	1 1/4" 5 Ways	8
3313-vpf-1a0616	1 1/4" 6 Ways	8
3313-vpf-1a0716	1 1/4" 7 Ways	4
3313-vpf-1a0816	1 1/4" 8 Ways	4
3313-vpf-1a0916	1 1/4" 9 Ways	4
3313-vpf-1a1016	1 1/4" 10 Ways	4
3313-vpf-1a1116	1 1/4" 11 Ways	4
3313-vpf-1a1216	1 1/4" 12 Ways	4
3313-vpf-1a1316	1 1/4" 13 Ways	4



# Floor Heating Systems

## Bracket

Code	Size	Pcs.
3391-bck-0c0000	3/4"	75
3391-bck-100000	1"	100
3391-bck-100001	1" Light	100
3391-bck-1a0000	1 1/4"	60



## Ball Valve with Thermocouple

Code	Size	Pcs.
3391-bvt-100000	1"	30



## Stopend

Code	Size	Pcs.
3391-ste-0c0000	3/4"	300
3391-ste-100000	1"	200
3391-ste-1a0000	1 1/4"	125



## PE-X Stopend / AL PE-X Stopend

Code	Size	Pcs.
3391-ste-160000	ø16 x 2 PE-X	400
3391-ste-160001	ø16 x 2 AL PE-X	250



## Tee

Code	Size	Pcs.
3391-tep-100000	1"	75
3391-tep-1a0000	1 1/4"	75



# Floor Heating Systems

## Air Vent

Code	Size	Pcs.
3391-pur-0e0000	1/8"	750
3391-pur-0a0000	1/4"	500
3391-pur-0d0000	3/8"	500
3391-pur-0b0000	1/2"	400



## Air Vent Mechanic

Code	Size	Pcs.
3391-pur-0a0001	1/4"	500
3391-pur-0e0002	1/8"	500



## Spiral PE-X Stopend

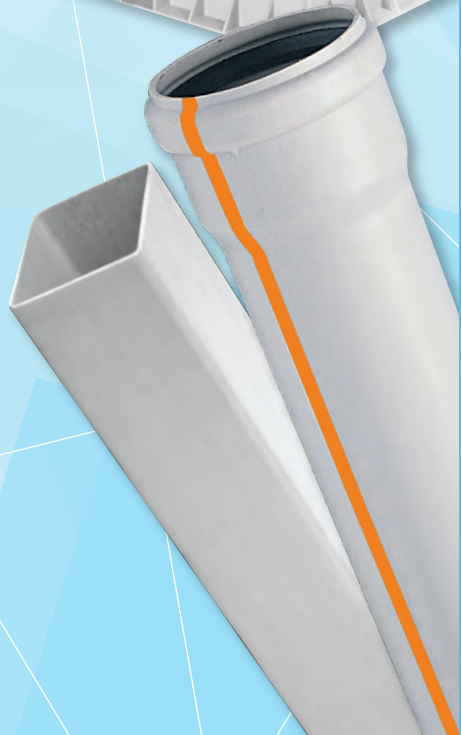
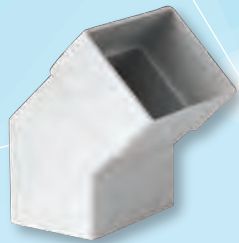
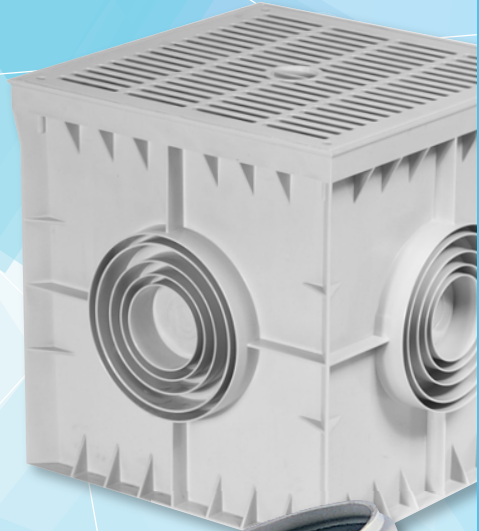
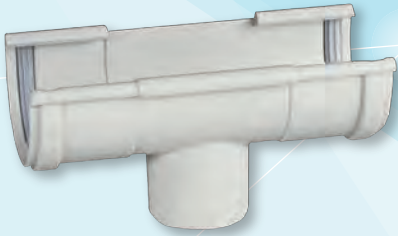
Code	Size	Pcs.
3592-pxs-160000	ø16	1000



## Cabinet

Code	Size	Pcs.
3392-cab-400000	40 x 70 x 11	1
3392-cab-600000	60 x 70 x 11	1
3392-cab-800000	80 x 70 x 11	1





**PVC-U Systems**

# PVC-U Systems

## 3.2 Waste Water Pipe and Fittings

### PVC-U Pipe / Type B

Code	Size	Pcs.
5203-tbe-xk0150	ø50	100
5203-tbe-xk0250	ø50	80
5203-tbe-xk0500	ø50	50
5203-tbe-0k1000	ø50	10
5203-tbe-0k2000	ø50	10
5203-tbe-0k3000	ø50	10
5203-tbe-0k6000	ø50	1
5203-tbe-xl0150	ø75	40
5203-tbe-xl0250	ø75	35
5203-tbe-0l0500	ø75	30
5203-tbe-0l1000	ø75	5
5203-tbe-0l2000	ø75	5
5203-tbe-0l3000	ø75	5
5203-tbe-0l6000	ø75	1
5203-tbe-xm0150	ø110	25
5203-tbe-xm0250	ø110	15
5203-tbe-0m0500	ø110	14
5203-tbe-0m1000	ø110	5
5203-tbe-0m2000	ø110	5
5203-tbe-0m3000	ø110	2
5203-tbe-0m6000	ø110	1
5203-tbe-xn0250	ø125	12
5203-tbe-0n0500	ø125	10
5203-tbe-0n1000	ø125	2
5203-tbe-0n2000	ø125	2
5203-tbe-0n3000	ø125	2
5203-tbe-0n6000	ø125	1
5203-tbe-0p0250	ø160	8
5203-tbe-0p0500	ø160	6
5203-tbe-0p1000	ø160	2
5203-tbe-0p2000	ø160	2
5203-tbe-0p3000	ø160	2
5203-tbe-0p6000	ø160	1



## PVC-U Pipe / Type B

Code	Size	Pcs.
5203-tbe-0r0250	ø200	4
5203-tbe-0r0500	ø200	4
5203-tbe-0r1000	ø200	2
5203-tbe-0r2000	ø200	2
5203-tbe-0r3000	ø200	2
5203-tbe-0r6000	ø200	1
5203-tbe-0s0250	ø250	3
5203-tbe-0s0500	ø250	3
5203-tbe-0s1000	ø250	1
5203-tbe-0s2000	ø250	1
5203-tbe-0s3000	ø250	1
5203-tbe-0s6000	ø250	1



## PVC-U Elbow 87°

Code	Size	Pcs.
5213-elb-xk0087	ø50	150
5213-elb-xl0087	ø75	75
5213-elb-xm0087	ø110	25
5213-elb-xn0087	ø125	15
5213-elb-xp0087	ø160	10
5213-elb-xr0087	ø200	4
5213-elb-0s0087	ø250	2



## PVC-U Elbow 45°

Code	Size	Pcs.
5213-elb-xk0045	ø50	200
5213-elb-xl0045	ø75	75
5213-elb-xm0045	ø110	30
5213-elb-xn0045	ø125	20
5213-elb-xp0045	ø160	10
5213-elb-xr0045	ø200	5
5213-elb-0s0045	ø250	3



## PVC-U Double Branch 87°

Code	Size	Pcs.
5213-dbr-xm0m87	ø110/110	8



## PVC-U Double Branch 45°

Code	Size	Pcs.
5213-dbr-xk0k45	ø50/50	60
5213-dbr-0l0k45	ø75/50	20
5213-dbr-xl0l45	ø75/75	20
5213-dbr-xm0k45	ø110/50	20
5213-dbr-0m0l45	ø110/75	10
5213-dbr-xm0m45	ø110/110	8
5213-dbr-0n0k45	ø125/50	15
5213-dbr-0n0l45	ø125/75	10
5213-dbr-xn0m45	ø125/110	6
5213-dbr-0n0n45	ø125/125	5
5213-dbr-0p0k45	ø160/50	5
5213-dbr-0p0l45	ø160/75	5
5213-dbr-0p0m45	ø160/110	4
5213-dbr-0p0n45	ø160/125	4
5213-dbr-0p0p45	ø160/160	4
5213-dbr-0r0m45	ø200/110	3
5213-dbr-0r0n45	ø200/125	3
5213-dbr-0r0p45	ø200/160	3
5213-dbr-0r0r45	ø200/200	3
5213-dbr-0s0m45	ø250/110	3
5213-dbr-0s0n45	ø250/125	3
5213-dbr-0s0p45	ø250/160	3
5213-dbr-0s0r45	ø250/200	3
5213-dbr-0s0s45	ø250/250	3



## PVC-U Single Branch 45°

Code	Size	Pcs.
5213-sbr-xk0k45	ø50/50	80
5213-sbr-xl0k45	ø75/50	50
5213-sbr-xl0l45	ø75/75	20
5213-sbr-xm0k45	ø110/50	15
5213-sbr-xm0l45	ø110/75	15
5213-sbr-xm0m45	ø110/110	10
5213-sbr-xn0k45	ø125/50	15
5213-sbr-0n0l45	ø125/75	10
5213-sbr-xn0m45	ø125/110	10
5213-sbr-xn0n45	ø125/125	8
5213-sbr-0p0k45	ø160/50	8
5213-sbr-0p0l45	ø160/75	8
5213-sbr-xp0m45	ø160/110	6
5213-sbr-xp0n45	ø160/125	5
5213-sbr-xp0p45	ø160/160	4
5213-sbr-xr0m45	ø200/110	4
5213-sbr-xr0n45	ø200/125	4
5213-sbr-0r0p45	ø200/160	4
5213-sbr-xr0r45	ø200/200	4
5213-sbr-0s0m45	ø250/110	3
5213-sbr-0s0n45	ø250/125	3
5213-sbr-0s0p45	ø250/160	3
5213-sbr-0s0r45	ø250/200	3
5213-sbr-0s0s45	ø250/250	3



## PVC-U Sigle Branch 87°

Code	Size	Pcs.
5213-sbr-xk0k87	ø50 x 50	100
5213-sbr-xl0k87	ø75 x 50	30
5213-sbr-xl0l87	ø75 x 75	20
5213-sbr-xm0k87	ø110 x 50	15
5213-sbr-xm0l87	ø110 x 75	20
5213-sbr-xm0m87	ø110 x 110	15
5213-sbr-0n0k87	ø125 x 50	10
5213-sbr-0n0l87	ø125 x 75	15
5213-sbr-0n0m87	ø125 x 110	10
5213-sbr-0n0n87	ø125 x 125	10
5213-sbr-0p0k87	ø160 x 50	10
5213-sbr-0p0l87	ø160 x 75	8
5213-sbr-xp0m87	ø160 x 110	6
5213-sbr-0p0n87	ø160 x 125	6
5213-sbr-xp0p87	ø160 x 160	5
5213-sbr-0r0m87	ø200 x 110	6
5213-sbr-0r0n87	ø200 x 125	4
5213-sbr-0r0p87	ø200 x 160	4
5213-sbr-0r0r87	ø200 x 200	4
5213-sbr-0s0m87	ø250 x 110	3
5213-sbr-0s0n87	ø250 x 125	3
5213-sbr-0s0p87	ø250 x 160	3
5213-sbr-0s0r87	ø250 x 200	3
5213-sbr-0s0s87	ø250 x 250	3



## PVC-U Reduction

Code	Size	Pcs.
5213-rdc-xl0k00	75/50	100
5213-rdc-xm0k00	110/50	60
5213-rdc-xm0l00	110/75	60
5213-rdc-0n0l00	125/75	40
5213-rdc-xn0m00	125/110	30
5213-rdc-0p0l00	160/75	25
5213-rdc-xp0m00	160/110	25
5213-rdc-xp0n00	160/125	25
5213-rdc-0r0m00	200/110	15
5213-rdc-0r0n00	200/125	15
5213-rdc-xr0p00	200/160	15
5213-rdc-0s0p00	250/160	10
5213-rdc-0s0r00	250/200	10



## PVC-U Sliding Coupling

Code	Size	Pcs.
5213-soc-xk0000	ø50	200
5213-soc-xl0000	ø75	100
5213-soc-xm0000	ø110	30
5213-soc-xn0000	ø125	25
5213-soc-xp0000	ø160	10
5213-soc-xr0000	ø200	8



## PVC-U S

Code	Size	Pcs.
5213-spi-xm0087	ø110	10



## PVC-U Check Valve

Code	Size	Pcs.
5213-cvl-0m0000	ø110	1
5213-cvl-0n0000	ø125	1
5213-cvl-0p0000	ø160	1
5213-cvl-0r0000	ø200	1



## PVC-U Cleaning Part

Code	Size	Pcs.
5213-clp-0l0000	ø75	25
5213-clp-0m0000	ø110	15
5213-clp-0n0000	ø125	10
5213-clp-0p0000	ø160	5
5213-clp-0r0000	ø200	5



## PVC-U Cleaning Elbow 87°

Code	Size	Pcs.
5213-elp-0m0000	ø110	15



## Kada

Code	Size	Pcs.
5213-cad-0m0000	ø110	100



## Stopend

Code	Size	Pcs.
5213-ste-xk0000	ø50	500
5213-ste-xl0000	ø75	400
5213-ste-xm0000	ø110	150
5213-ste-0n0000	ø125	100
5213-ste-0p0000	ø160	80
5213-ste-0r0000	ø200	30
5213-ste-0s0000	ø250	10



## PVC-U Air Chimney

Code	Size	Pcs.
5213-arh-0l00000	ø75	30
5213-arh-0m0000	ø110	18



## Clamp

Code	Size	Pcs.
5213-bcc-0k0000	ø50	500
5213-bcc-0l0000	ø75	200
5213-bcc-0m0000	ø110	100
5213-bcc-0n0000	ø125	100
5213-bcc-0p0000	ø160	50
5213-bcc-0r0000	ø200	40



## Adapter Joint

Code	Size	Pcs.
5213-aru-0k0000	ø50	200



## Joint

Code	Size	Pcs.
5213-rur-0k0000	ø50	7000
5213-rur-0l0000	ø75	5000
5213-rur-0m0000	ø110	2500
5213-rur-0n0000	ø125	2000
5213-rur-0p0000	ø160	1000
5213-rur-0r0000	ø200	700
5213-rur-0s0000	ø250	250



## PVC-U Systems

### 2.2 Waste Water Pipe System



#### Sedef PVC-U Pipe

Code	Size	Pcs.
6203-tbs-xk0500	ø50	50
6203-tbs-0k1000	ø50	10
6203-tbs-0k2000	ø50	10
6203-tbs-0k3000	ø50	10
6203-tbs-0k6000	ø50	5
6203-tbs-0l0500	ø75	30
6203-tbs-0l1000	ø75	5
6203-tbs-0l2000	ø75	5
6203-tbs-0l3000	ø75	5
6203-tbs-0l6000	ø75	5
6203-tbs-0m0500	ø110	14
6203-tbs-0m1000	ø110	5
6203-tbs-0m2000	ø110	5
6203-tbs-0m3000	ø110	5
6203-tbs-0m6000	ø110	5
6203-tbs-0n0500	ø125	10
6203-tbs-0n1000	ø125	5
6203-tbs-0n2000	ø125	5
6203-tbs-0n3000	ø125	5
6203-tbs-0n6000	ø125	5





# Sound Insulated Piping Systems

# Sound Insulated Piping Systems

## Kalde-Mute 3K Waste Water Pipe and Fittings

### Kalde-Mute 3K Tube

Code	Size	Pcs.
4308-tbm-0k0150	ø50	
4308-tbm-0k0250	ø50	
4308-tbm-0k0500	ø50	
4308-tbm-0k1000	ø50	
4308-tbm-0k2000	ø50	
4308-tbm-0k3000	ø50	
4308-tbm-0l0150	ø75	
4308-tbm-0l0250	ø75	
4308-tbm-0l0500	ø75	
4308-tbm-0l1000	ø75	
4308-tbm-0l2000	ø75	
4308-tbm-0l3000	ø75	
4308-tbm-0m0150	ø110	
4308-tbm-0m0250	ø110	
4308-tbm-0m0500	ø110	
4308-tbm-0m1000	ø110	
4308-tbm-0m2000	ø110	
4308-tbm-0m3000	ø110	
4308-tbm-0n0250	ø125	
4308-tbm-0n0500	ø125	
4308-tbm-0n1000	ø125	
4308-tbm-0n2000	ø125	
4308-tbm-0n3000	ø125	
4308-tbm-0p0150	ø160	
4308-tbm-0p0250	ø160	
4308-tbm-0p0500	ø160	
4308-tbm-0p1000	ø160	
4308-tbm-0p2000	ø160	
4308-tbm-0p3000	ø160	
4308-tbm-0r0500	ø200	
4308-tbm-0r1000	ø200	
4308-tbm-0r2000	ø200	
4308-tbm-0r3000	ø200	



## Sound Insulated Piping Systems

### Kalde-Mute 3K Elbow 45°

Code	Size	Pcs.
4318-elb-0k0045	ø50	100
4318-elb-0l0045	ø75	50
4318-elb-0m0045	ø110	25
4318-elb-0n0045	ø125	20
4318-elb-0p0045	ø160	7
4318-elb-0r0045	ø200	



### Kalde-Mute 3K Elbow 87°

Code	Size	Pcs.
4318-elb-0k0087	ø50	100
4318-elb-0l0087	ø75	50
4318-elb-0m0087	ø110	25
4318-elb-0n0087	ø125	20
4318-elb-0p0087	ø160	7
4318-elb-0r0087	ø200	



### Kalde-Mute 3K Single Branch 45°

Code	Size	Pcs.
4318-sbr-0k0k45	ø50/50	50
4318-sbr-0l0k45	ø75/50	
4318-sbr-0l0l45	ø75/75	50
4318-sbr-0m0k45	ø110/50	
4318-sbr-0m0l45	ø110/75	30
4318-sbr-0m0m45	ø110/110	25
4318-sbr-0n0m45	ø125/110	15
4318-sbr-0n0n45	ø125/125	15
4318-sbr-0p0m45	ø160/110	10
4318-sbr-0p0n45	ø160/125	
4318-sbr-0p0p45	ø160/160	8
4318-sbr-0r0m45	ø200/110	8
4318-sbr-0r0n45	ø200/125	4
4318-sbr-0r0p45	ø200/160	4
4318-sbr-0r0r45	ø200/200	



## Sound Insulated Piping Systems

### Kalde-Mute 3K Single Branch 87°

Code	Size	Pcs.
4318-sbr-0k0k87	ø50/50	80
4318-sbr-0l0k87	ø75/50	25
4318-sbr-0l0l87	ø75/75	
4318-sbr-0m0k87	ø110/50	20
4318-sbr-0m0l87	ø110/75	20
4318-sbr-0m0m87	ø110/110	15
4318-sbr-0n0n87	ø125/125	
4318-sbr-0p0m87	ø160/110	



### Kalde-Mute 3K Double Branch 45°

Code	Size	Pcs.
4318-dbr-0k0k45	ø50/50	
4318-dbr-0l0l45	ø75/75	
4318-dbr-0m0k45	ø110/50	
4318-dbr-0m0m45	ø110/110	
4318-dbr-0n0m45	ø125/110	
4318-dbr-0p0m45	ø160/110	



### Kalde-Mute 3K Reduction

Code	Size	Pcs.
4318-rdc-0l0k00	ø75/50	100
4318-rdc-0m0k00	ø110/50	40
4318-rdc-0m0l00	ø110/75	40
4318-rdc-0n0m00	ø125/110	20
4318-rdc-0p0m00	ø160/110	15
4318-rdc-0p0n00	ø160/125	15
4318-rdc-0r0p00	ø200/160	



### Kalde-Mute 3K S 87°

Code	Size	Pcs.
4318-spl-0m0087	ø110/87°	8



## Sound Insulated Piping Systems

### Kalde-Mute 3K Stopend

Code	Size	Pcs.
4318-ste-0k0000	ø50	100
4318-ste-0l0000	ø75	75
4318-ste-0m0000	ø110	50
4318-ste-0n0000	ø125	
4318-ste-0p0000	ø160	



### Kalde-Mute 3K Sliding Coupling

Code	Size	Pcs.
4318-soc-0k0000	ø50	100
4318-soc-0l0000	ø75	
4318-soc-0m0000	ø110	
4318-soc-0n0000	ø125	75
4318-soc-0p0000	ø160	25
4318-soc-0r0000	ø200	20





# General Brass Fittings

# General Brass Fittings

## Male Securing

Code	Size	Pcs.
3451-sec-160000	ø16	250
3451-sec-200000	ø20	200
3451-sec-250000	ø25	100
3451-sec-320000	ø32	60
3451-sec-400000	ø40	35



## Female Securing

Code	Size	Pcs.
3451-sef-160000	ø16	250
3451-sef-200000	ø20	200
3451-sef-250000	ø25	100
3451-sef-320000	ø32	60
3451-sef-400000	ø40	35



## Securing

Code	Size	Pcs.
3451-see-160000	ø16	150
3451-see-200000	ø20	100
3451-see-250000	ø25	70
3451-see-320000	ø32	45
3451-see-400000	ø40	20



## Coupling

Code	Size	Pcs.
3811-muf-0b0000	1/2"	200
3811-muf-0c0000	3/4"	150
3811-muf-100000	1"	80
3811-muf-1a0000	1 1/4"	45
3811-muf-1b0000	1 1/2"	36
3811-muf-200001	2"	18



# General Brass Fittings

## Nipple

Code	Size	Pcs.
3811-npl-0d0000	3/8"	500
3811-npl-0b0000	1/2"	300
3811-npl-0c0000	3/4"	200
3811-npl-100000	1"	100
3811-npl-1a0000	1 1/4"	60
3811-npl-1b0000	1 1/2"	36
3811-npl-200000	2"	25



## Elbow Female / Female

Code	Size	Pcs.
3811-efo-0b0000	1/2"	125
3811-efo-0c0000	3/4"	65
3811-efo-100000	1"	35
3811-efo-1a0000	1 1/4"	20
3811-efo-1b0000	1 1/2"	20
3811-efo-200000	2"	12



## Elbow Female / Male

Code	Size	Pcs.
3811-emo-0b0000	1/2"	120
3811-emo-0c0000	3/4"	80
3811-emo-100000	1"	40
3811-emo-1a0000	1 1/4"	20
3811-emo-1b0000	1 1/2"	15
3811-emo-200000	2"	10



## Elbow Male / Male

Code	Size	Pcs.
3811-emm-0b0000	1/2"	100
3811-emm-0c0000	3/4"	80
3811-emm-100000	1"	45



# General Brass Fittings

## Reducing Coupling

Code	Size	Pcs.
3811-mur-0b0d00	3/8"	200
3811-mur-0c0b00	1/2"	150
3811-mur-100b00	1/2"	100
3811-mur-100c00	3/4"	100
3811-mur-1a0b00	1/2"	80
3811-mur-1a0c00	3/4"	80
3811-mur-1a1000	1"	80
3811-mur-1b1000	1"	50
3811-mur-1b1a00	1 1/4"	45
3811-mur-201000	1"	40
3811-mur-201a00	1 1/4"	30
3811-mur-201b00	1 1/2"	30



## Reducing

Code	Size	Pcs.
3811-rdc-0a0b00	1/4"	400
3811-rdc-0d0b00	3/8"	400
3811-rdc-0b0c00	1/2"	300
3811-rdc-0b1000	1/2"	150
3811-rdc-0c1000	3/4"	150
3811-rdc-0b1a00	1/2"	70
3811-rdc-1a0c00	3/4"	80
3811-rdc-1a1000	1"	100
3811-rdc-0b1b00	1/2"	70
3811-rdc-0c1b00	3/4"	80
3811-rdc-1b1000	1"	65
3811-rdc-1b1a00	1 1/4"	65
3811-rdc-200b00	1/2"	35
3811-rdc-200c00	3/4"	35
3811-rdc-201000	1"	30
3811-rdc-1a2000	1 1/4"	40
3811-rdc-1b2000	1 1/2"	40



## General Brass Fittings

### Reducing Nipple

Code	Size	Pcs.
3811-rdn-0b0d00	12	300
3811-rdn-0c0d00	12	300
3811-rdn-0c0b00	16,5	200
3811-rdn-100b00	16,5	120
3811-rdn-100c00	21,5	100
3811-rdn-1a0b00	16,5	70
3811-rdn-1a0c00	21,5	70
3811-rdn-1a1000	26,5	60
3811-rdn-0b1b00	16,5	60
3811-rdn-0c1b00	21,5	50
3811-rdn-1b1000	26,5	60
3811-rdn-1b1a00	35	50
3811-rdn-200b00	16,5	40
3811-rdn-200c00	21,5	40
3811-rdn-201000	26,5	40
3811-rdn-201a00	35	32
3811-rdn-201b00	40,5	30



### Invert Reducing

Code	Size	Pcs.
3811-ird-0c0b00	1/2"	200
3811-ird-100b00	1/2"	100
3811-ird-100c00	3/4"	100
3811-ird-1a0c00	3/4"	90
3811-ird-1a1000	1"	80
3811-ird-1b1000	1"	60
3811-ird-0b0d00	3/8"	250
3811-ird-1a0b00	1/2"	75
3811-ird-1b0b00	1/2"	80
3811-ird-1b0c00	3/4"	60
3811-ird-1b1a00	1 1/4"	60
3811-ird-201000	1"	40
3811-ird-201a00	1 1/4"	30
3811-ird-201b00	1 1/2"	25



# General Brass Fittings

## Wall Plate Elbow

Code	Size	Pcs.
3811-fle-0b0000	1/2"	120
3811-fle-0c0000	3/4"	50



## Cross

Code	Size	Pcs.
3811-crs-0b0000	1/2"	80
3811-crs-0c0000	3/4"	50
3811-crs-100000	1"	25



## Tee Female / Female / Female

Code	Size	Pcs.
3811-tfo-0b0000	1/2"	100
3811-tfo-0c0000	3/4"	50
3811-tfo-100000	1"	25
3811-tfo-1a0000	1 1/4"	18
3811-tfo-1b0000	1 1/2"	16
3811-tfo-200000	2"	8



## Tee Female / Male / Female

Code	Size	Pcs.
3811-tfm-0b0000	1/2"	100
3811-tfm-0c0000	3/4"	60
3811-tfm-100000	1"	30



## Tee Male / Male / Male

Code	Size	Pcs.
3811-tmo-0b0000	1/2"	80
3811-tmo-0c0000	3/4"	60
3811-tmo-100000	1"	30



# General Brass Fittings

## Tee Male / Male / Female

Code	Size	Pcs.
3811-tdm-0b0000	1/2"	80



## Inegal Tee

Code	Size	Pcs.
3811-tio-0c0b0c	3/4"	60
3811-tio-100b10	1"	35
3811-tio-100c10	1"	35



## Water Meter Union

Code	Size	Pcs.
3811-wmt-0c1000	3/4"	80



## Union-Elbow

Code	Size	Pcs.
3811-tue-0b0000	1/2"	80
3811-tue-0c0000	3/4"	50
3811-tue-100000	1"	30
3811-tue-1a0000	1 1/4"	15



## Union-Straight

Code	Size	Pcs.
3811-tun-0b0000	1/2"	150
3811-tun-0c0000	3/4"	80
3811-tun-100000	1"	40
3811-tun-1a0000	1 1/4"	25
3811-tun-160000	1 1/2"	20
3811-tun-200000	2"	16



# General Brass Fittings

## Male Stopend

Code	Size	Pcs.
3811-stm-0b0000	1/2"	400
3811-stm-0c0000	3/4"	250
3811-stm-100000	1"	170
3811-stm-1a0000	1 1/4"	80
3811-stm-1b0000	1 1/2"	75
3811-stm-200000	2"	30



## Female Stopend

Code	Size	Pcs.
3811-stf-0d0000	3/8"	1050
3811-stf-0b0000	1/2"	500
3811-stf-0c0000	3/4"	250
3811-stf-100000	1"	150
3811-stf-1a0000	1 1/4"	120
3811-stf-1b0000	1 1/2"	90
3811-stf-200000	2"	50



## Hose Connection - Male

Code	Size	Pcs.
3811-uch-0b0010	1/2"	250
3811-uch-0b0012	1/2"	300
3811-uch-0b0014	1/2"	250
3811-uch-0b0016	1/2"	250
3811-uch-0b0018	1/2"	250
3811-uch-0b0020	1/2"	200
3811-uch-0c0020	3/4"	150
3811-uch-100025	1"	80



## Hose Connection - Female

Code	Size	Pcs.
3811-ucf-0b0010	1/2"	250
3811-ucf-0b0012	1/2"	250
3811-ucf-0b0014	1/2"	250
3811-ucf-0b0016	1/2"	200
3811-ucf-0b0018	1/2"	150
3811-ucf-0b0020	1/2"	150



# General Brass Fittings

## Nut with Flange

Code	Size	Pcs.
3811-fsm-0b0000	1/2"	500
3811-fsm-0c0000	3/4"	400
3811-fsm-100000	1"	250
3811-fsm-1a0000	1 1/4"	150
3811-fsm-1b0000	1 1/2"	100
3811-fsm-200000	2"	60



## Tap Connection

Code	Size	Pcs.
3811-neb-0c0000	1/2"	200



## Plated Connection to Wrench

Code	Size	Pcs.
3811-ext-0b0010	1/2"	300
3811-ext-0b0015	1/2"	250
3811-ext-0b0020	1/2"	200
3811-ext-0b0025	1/2"	150
3811-ext-0b0030	1/2"	150
3811-ext-0b0040	1/2"	120
3811-ext-0b0050	1/2"	100



## Plated Connection - Chrome

Code	Size	Pcs.
3811-nex-0b0010	1/2"	300
3811-nex-0b0015	1/2"	300
3811-nex-0b0020	1/2"	250
3811-nex-0b0025	1/2"	200
3811-nex-0b0030	1/2"	200
3811-nex-0b0035	1/2"	150
3811-nex-0b0040	1/2"	150
3811-nex-0b0050	1/2"	100



# General Brass Fittings

## Tap Connection- Holed

Code	Size	Pcs.
3811-net-0b0000	1/2"	100



## Tap Connection

Code	Size	Pcs.
3811-bet-0c0000	3/4"	80
3811-bel-0c0000	3/4"	100



## Half Cross

Code	Size	Pcs.
3811-ned-0c0000	3/4"	75



## Mini Union

Code	Size	Pcs.
3411-nff-160b01	1/2"	225



## Male Return - Union

Code	Size	Pcs.
3411-nmf-160b00	ø16 x 1/2"	225



# General Brass Fittings

## Manifold - Blue - Light Type

Code	Size	A	L1	L	H	Pcs.
3312-vhf-100216	1" - 2 x Ø16	43	22,5	94	50,7	20
3312-vhf-100316	1" - 3 x Ø16	43	22,5	137	50,7	15
3312-vhf-100416	1" - 4 x Ø16	43	22,5	180	50,7	10
3312-vhf-100516	1" - 5 x Ø16	43	22,5	266	50,7	10
3312-vhf-100616	1" - 6 x Ø16	43	22,5	309	50,7	10
3312-vhf-100716	1" - 7 x Ø16	43	22,5	352	50,7	5
3312-vhf-100816	1" - 8 x Ø16	43	22,5	395	50,7	5
3312-vhf-100916	1" - 9 x Ø16	43	22,5	438	50,7	5
3312-vhf-101016	1" - 10 x Ø16	43	22,5	524	50,7	5
3312-vhf-101116	1" - 11 x Ø16	43	22,5	567	50,7	5
3312-vhf-101216	1" - 12 x Ø16	43	22,5	610	50,7	5
3312-vhf-101316	1" - 13 x Ø16	43	22,5	653	50,7	5



## Manifold - Red - Light Type

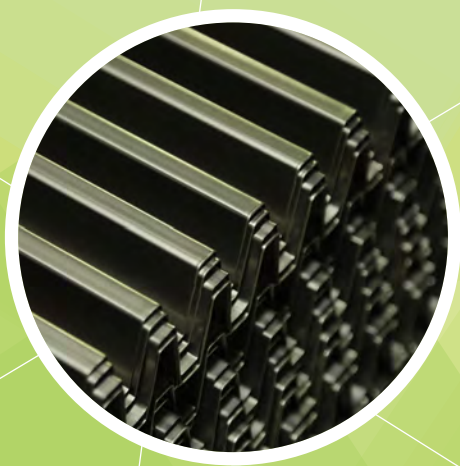
Code	Size	A	L1	L	H	Pcs.
3313-vhf-100216	1" - 2 x Ø16	43	22,5	94	50,7	20
3313-vhf-100316	1" - 3 x Ø16	43	22,5	137	50,7	15
3313-vhf-100416	1" - 4 x Ø16	43	22,5	180	50,7	10
3313-vhf-100516	1" - 5 x Ø16	43	22,5	266	50,7	10
3313-vhf-100616	1" - 6 x Ø16	43	22,5	309	50,7	10
3313-vhf-100716	1" - 7 x Ø16	43	22,5	352	50,7	5
3313-vhf-100816	1" - 8 x Ø16	43	22,5	395	50,7	5
3313-vhf-100916	1" - 9 x Ø16	43	22,5	438	50,7	5
3313-vhf-101016	1" - 10 x Ø16	43	22,5	524	50,7	5
3313-vhf-101116	1" - 11 x Ø16	43	22,5	567	50,7	5
3313-vhf-101216	1" - 12 x Ø16	43	22,5	610	50,7	5
3313-vhf-101316	1" - 13 x Ø16	43	22,5	653	50,7	5



## For Manifold Nipple

Code	Size	Pcs.
3391-npl-100000	1"	150





**Radiators**

## Type 22 / H 300

Code	Size	Pcs.
0322-rad-300400	300 x 400	1
0322-rad-300500	300 x 500	1
0322-rad-300600	300 x 600	1
0322-rad-300700	300 x 700	1
0322-rad-300800	300 x 800	1
0322-rad-300900	300 x 900	1
0322-rad-301000	300 x 1000	1
0322-rad-301100	300 x 1100	1
0322-rad-301200	300 x 1200	1
0322-rad-301300	300 x 1300	1
0322-rad-301400	300 x 1400	1
0322-rad-301500	300 x 1500	1
0322-rad-301600	300 x 1600	1
0322-rad-301700	300 x 1700	1
0322-rad-301800	300 x 1800	1
0322-rad-301900	300 x 1900	1
0322-rad-302000	300 x 2000	1
0322-rad-302100	300 x 2100	1
0322-rad-302200	300 x 2200	1
0322-rad-302300	300 x 2300	1
0322-rad-302400	300 x 2400	1
0322-rad-302500	300 x 2500	1
0322-rad-302600	300 x 2600	1
0322-rad-302700	300 x 2700	1
0322-rad-302800	300 x 2800	1
0322-rad-302900	300 x 2900	1
0322-rad-303000	300 x 3000	1



## Type 22 / H 400

Code	Size	Pcs.
0322-rad-400400	400 x 400	1
0322-rad-400500	400 x 500	1
0322-rad-400600	400 x 600	1
0322-rad-400700	400 x 700	1
0322-rad-400800	400 x 800	1
0322-rad-400900	400 x 900	1
0322-rad-401000	400 x 1000	1
0322-rad-401100	400 x 1100	1
0322-rad-401200	400 x 1200	1
0322-rad-401300	400 x 1300	1
0322-rad-401400	400 x 1400	1
0322-rad-401500	400 x 1500	1
0322-rad-401600	400 x 1600	1
0322-rad-401700	400 x 1700	1
0322-rad-401800	400 x 1800	1
0322-rad-401900	400 x 1900	1
0322-rad-402000	400 x 2000	1
0322-rad-402100	400 x 2100	1
0322-rad-402200	400 x 2200	1
0322-rad-402300	400 x 2300	1
0322-rad-402400	400 x 2400	1
0322-rad-402500	400 x 2500	1
0322-rad-402600	400 x 2600	1
0322-rad-402700	400 x 2700	1
0322-rad-402800	400 x 2800	1
0322-rad-402900	400 x 2900	1
0322-rad-403000	400 x 3000	1



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## Type 22 / H 500

Code	Size	Pcs.
0322-rad-500400	500 x 400	1
0322-rad-500500	500 x 500	1
0322-rad-500600	500 x 600	1
0322-rad-500700	500 x 700	1
0322-rad-500800	500 x 800	1
0322-rad-500900	500 x 900	1
0322-rad-501000	500 x 1000	1
0322-rad-501100	500 x 1100	1
0322-rad-501200	500 x 1200	1
0322-rad-501300	500 x 1300	1
0322-rad-501400	500 x 1400	1
0322-rad-501500	500 x 1500	1
0322-rad-501600	500 x 1600	1
0322-rad-501700	500 x 1700	1
0322-rad-501800	500 x 1800	1
0322-rad-501900	500 x 1900	1
0322-rad-502000	500 x 2000	1
0322-rad-502100	500 x 2100	1
0322-rad-502200	500 x 2200	1
0322-rad-502300	500 x 2300	1
0322-rad-502400	500 x 2400	1
0322-rad-502500	500 x 2500	1
0322-rad-502600	500 x 2600	1
0322-rad-502700	500 x 2700	1
0322-rad-502800	500 x 2800	1
0322-rad-502900	500 x 2900	1
0322-rad-503000	500 x 3000	1



## Type 22 / H 600

Code	Size	Pcs.
0322-rad-600400	600 x 400	1
0322-rad-600500	600 x 500	1
0322-rad-600600	600 x 600	1
0322-rad-600700	600 x 700	1
0322-rad-600800	600 x 800	1
0322-rad-600900	600 x 900	1
0322-rad-601000	600 x 1000	1
0322-rad-601100	600 x 1100	1
0322-rad-601200	600 x 1200	1
0322-rad-601300	600 x 1300	1
0322-rad-601400	600 x 1400	1
0322-rad-601500	600 x 1500	1
0322-rad-601600	600 x 1600	1
0322-rad-601700	600 x 1700	1
0322-rad-601800	600 x 1800	1
0322-rad-601900	600 x 1900	1
0322-rad-602000	600 x 2000	1
0322-rad-602100	600 x 2100	1
0322-rad-602200	600 x 2200	1
0322-rad-602300	600 x 2300	1
0322-rad-602400	600 x 2400	1
0322-rad-602500	600 x 2500	1
0322-rad-602600	600 x 2600	1
0322-rad-602700	600 x 2700	1
0322-rad-602800	600 x 2800	1
0322-rad-602900	600 x 2900	1
0322-rad-603000	600 x 3000	1

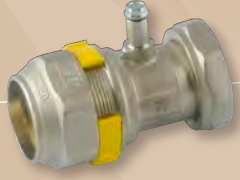


## Radiators

### Type 22 / H 900

Code	Size	Pcs.
0322-rad-900400	900 x 400	1
0322-rad-900500	900 x 500	1
0322-rad-900600	900 x 600	1
0322-rad-900700	900 x 700	1
0322-rad-900800	900 x 800	1
0322-rad-900900	900 x 900	1
0322-rad-901000	900 x 1000	1
0322-rad-901100	900 x 1100	1
0322-rad-901200	900 x 1200	1
0322-rad-901300	900 x 1300	1
0322-rad-901400	900 x 1400	1
0322-rad-901500	900 x 1500	1
0322-rad-901600	900 x 1600	1
0322-rad-901700	900 x 1700	1
0322-rad-901800	900 x 1800	1
0322-rad-901900	900 x 1900	1
0322-rad-902000	900 x 2000	1
0322-rad-902100	900 x 2100	1
0322-rad-902200	900 x 2200	1
0322-rad-902300	900 x 2300	1
0322-rad-902400	900 x 2400	1
0322-rad-902500	900 x 2500	1
0322-rad-902600	900 x 2600	1
0322-rad-902700	900 x 2700	1
0322-rad-902800	900 x 2800	1
0322-rad-902900	900 x 2900	1
0322-rad-903000	900 x 3000	1





**Gas Systems**

## Boiler Flex DN16 Fitting - Nipel Connection (TS 13890)

Code	Size	Pcs.
3470-ffs-0c0400	3/4" x 400	60
3470-ffs-0c0500	3/4" x 500	60
3470-ffs-0c0600	3/4" x 600	60
3470-ffs-0c0900	3/4" x 900	60



### Product Features

<b>Hose Type</b>	: Parallel-necked (corrugated) metal hose
<b>Hose Material</b>	: According to EN 10088-2 stainless steel AISI 316L (1.4404)
<b>Fittings</b>	: AISI 303 Stainless Steel (TS EN 10088-2)
<b>Unions Parts</b>	: Nickel Coated Steel (TS EN 1562) or according to EN 12164 CW167N, CW614N

### Advantages of Kalde Flexible Corrugated Metal Hoses

- Indoor use natural gas boiler as well as all applications, offer excellent connections.
- High service life thanks to provide affordability.
- Thanks to its highly flexible structure allows for ease of installation and labor.
- Features for users in terms of the highest level of security guarantees.
- Minimum bending radius can be installed without the contraction section, thanks.

## GASFlex (EN 14800)

Code	Size	Pcs.
3470-gmp-0b0500	1/2" x 500	50
3470-gmp-0b0750	1/2" x 750	50
3470-gmp-0b1000	1/2" x 1000	50
3470-gmp-0b1250	1/2" x 1250	25
3470-gmp-0b1500	1/2" x 1500	25
3470-gmp-0b2000	1/2" x 2000	20

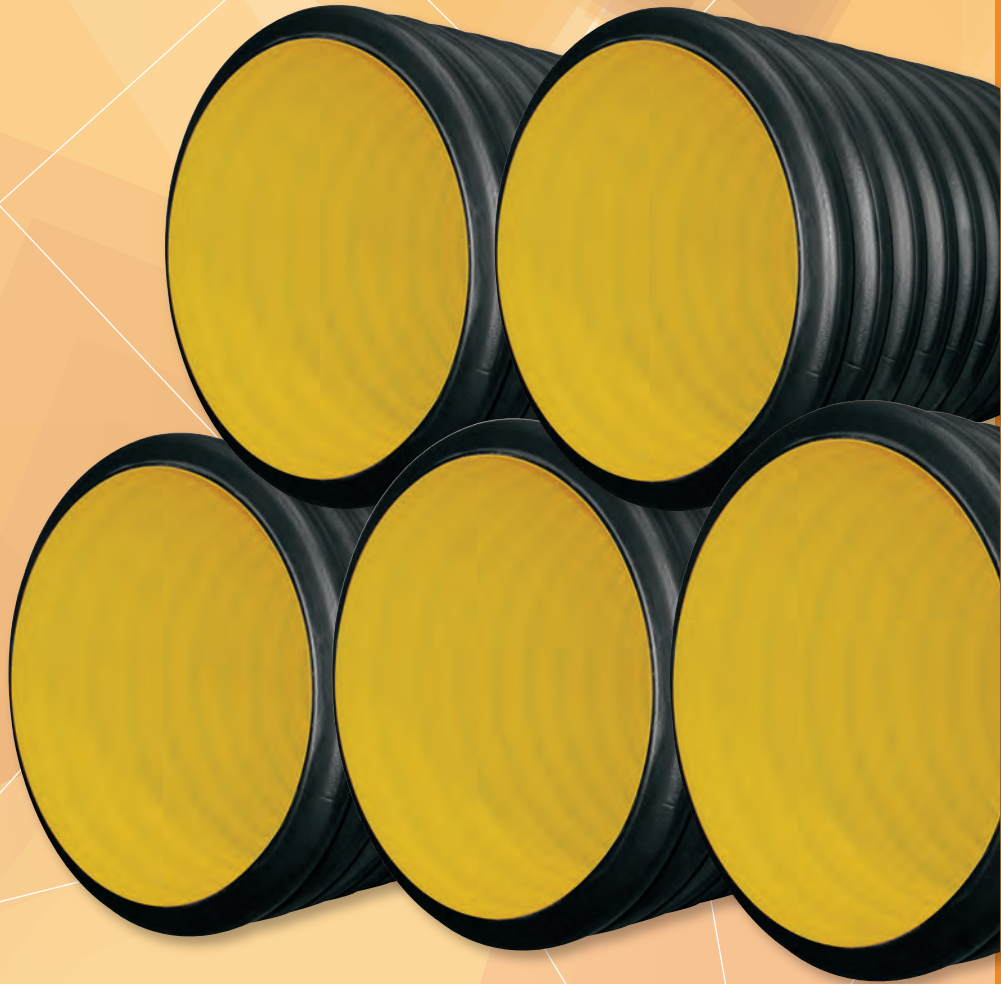


### Product Features

<b>Hose Type</b>	: Parallel-necked (corrugated) metal hose
<b>Hose Material</b>	: According to EN ISO 10380 Stainless Steel AISI 316L (1.4404), AISI 304L (1.4306)
<b>Mesh Material</b>	: Stainless Steel AISI 304 (1.4301)
<b>Coating</b>	: PVC protects from household cleaners, and other harmful effects.
<b>Fittings</b>	: Stainless Steel AISI 304 (1.4301)- AISI 303 (1.4305)
<b>Standard</b>	: EN 14800

### Advantages of EN 14800 Kalde Hose

- Indoor use natural gas burning stoves, furnaces and ovens, as well as all applications, offer excellent connections.
- High service life thanks to provide affordability.
- Thanks to its highly flexible structure allows for ease of installation and labor.
- Features for users in terms of the highest level of security guarantees.
- 3-layer design, the corrosion and is resistant to external influences.
- PVC coating on the outer surface, hygienic and easy to clean with household cleaner keeps.
- Features for users in terms of the highest level of security guarantees.
- CE certified.
- Minimum bending radius can be installed without the contraction section, thanks.



# Corrugated Pipes

# Corrugated Pipes

## Corrugated Pipe Set SN4

Code	Size	Pcs.
8302-set-100004	100 Lenght / 1 Coupling + 2 joint	1
8302-set-150004	150 Lenght / 1 Coupling + 2 joint	1
8302-set-200004	200 Lenght / 1 Coupling + 2 joint	1
8302-set-250004	250 Lenght / 1 Coupling + 2 joint	1
8302-set-300004	300 Lenght / 1 Coupling + 2 joint	1



## Corrugated Pipe Set SN8

Code	Size	Pcs.
8302-set-100008	100 Lenght / 1 Coupling + 2 joint	1
8302-set-150008	150 Lenght / 1 Coupling + 2 joint	1
8302-set-200008	200 Lenght / 1 Coupling + 2 joint	1
8302-set-250008	250 Lenght / 1 Coupling + 2 joint	1
8302-set-300008	300 Lenght / 1 Coupling + 2 joint	1



## HDPE Coupling SN4

Code	Size	Pcs.
8312-muf-100004	100	1
8312-muf-150004	150	1
8312-muf-200004	200	1
8312-muf-250004	250	1
8312-muf-300004	300	1



## Corrugated Joint

Code	Size	Pcs.
7302-sel-100000	100	1
7302-sel-150000	150	1
7302-sel-200000	200	1
7302-sel-250000	250	1
7302-sel-300000	300	1



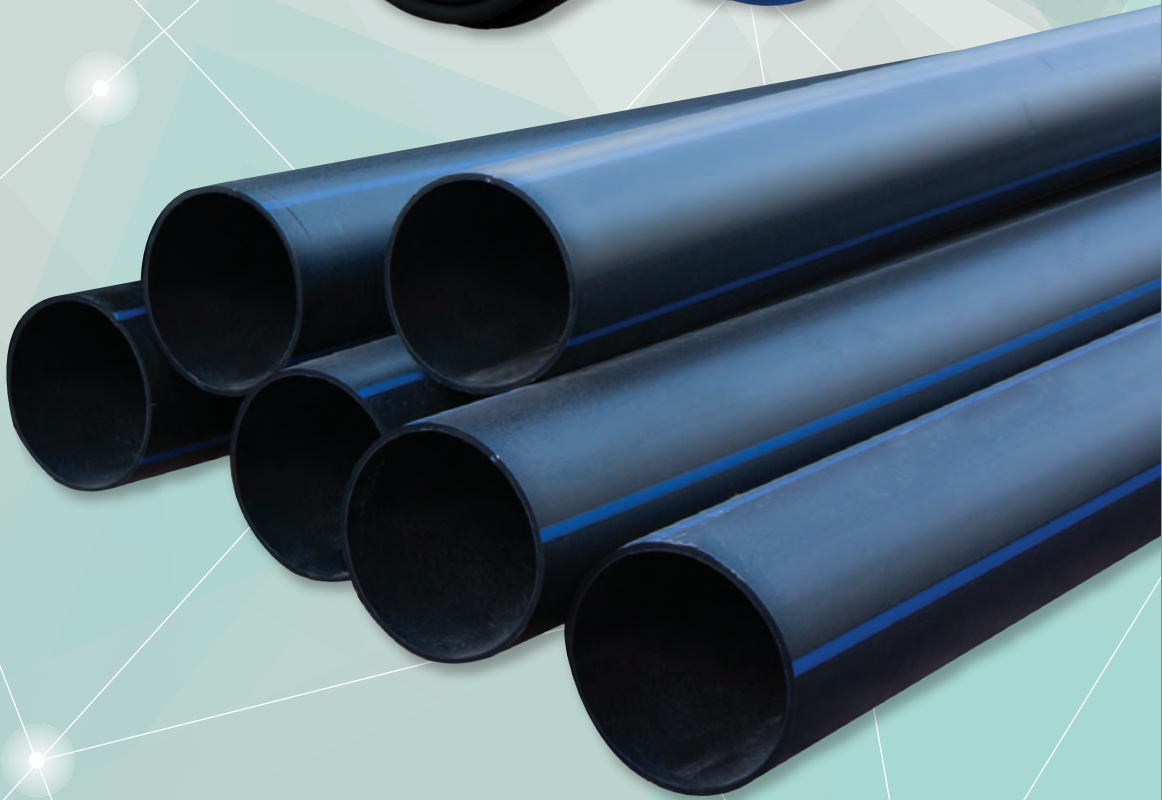
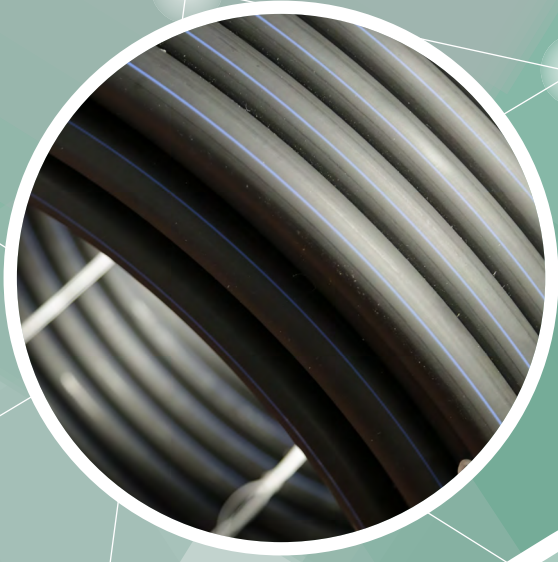
# Corrugated Pipes

## Transportation Lengths / Van / Truck

Corrugated Set 100	3000 m. ( 500 pcs) / 6000 m. ( 1000 pcs )
Corrugated Set 150	1380 m. ( 230 pcs) / 2760 m. ( 460 pcs )
Corrugated Set 200	840 m. ( 140 pcs) / 1680 m. ( 280 pcs )
Corrugated Set 250	480 m. ( 80 pcs) / 960 m. ( 160 pcs )
Corrugated Set 300	318 m. ( 53 pcs) / 636 m. ( 106 pcs )

## Sales Process

1	Length of pipe is 6 meters.
2	Prices are export prices excluding VAT.
3	Corrugate items are being sold only set based includes gaskets and couplings.
4	Loadings ex-works.
5	Transportation / freight costs should be checked before each loading.
6	Transportation/ freight costs should be paid to the transporter at the products receipt.
7	Transportation/ freight costs should be paid cash by the buyer.



**PE-100 Systems**

# PE-100 System



SDR 41; PN4			SDR 33; PN5			SDR 26; PN6			SDR 21; PN8			SDR 17; PN10		
DN	S	Weight	DN	S	Weight	DN	S	Weight	DN	S	Weight	DN	S	Weight
mm	mm	kg/m	mm	mm	kg/m	mm	mm	kg/m	mm	mm	kg/m	mm	mm	kg/m
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-	-	-	-	32	2,0*	0,19
40	-	-	-	-	-	-	-	-	40	2,0*	0,24	40	2,4	0,30
50	-	-	-	-	-	50	2,0	0,31	50	2,4	0,37	50	3,0	0,45
63	-	-	63	2,0	0,40	63	2,5	0,49	63	3,0	0,58	63	3,8	0,72
75	-	-	75	2,3	0,55	75	2,9	0,68	75	3,6	0,83	75	4,5	1,02
90	2,3*	0,64	90	2,8	0,79	90	3,5	0,98	90	4,3	1,18	90	5,4	1,46
110	2,7	0,94	110	3,4	1,17	110	4,2	1,43	110	5,3	1,77	110	6,6	2,17
125	3,1	1,23	125	3,9	1,51	125	4,8	1,84	125	6,0	2,27	125	7,4	2,76
140	3,5	1,54	140	4,3	1,88	140	5,4	2,32	140	6,7	2,83	140	8,3	3,46
160	4,0	2,00	160	4,9	2,42	160	6,2	3,04	160	7,7	3,72	160	9,5	4,52
180	4,4	2,49	180	5,5	3,07	180	6,9	3,79	180	8,6	4,67	180	10,7	5,71
200	4,9	3,05	200	6,2	3,84	200	7,7	4,69	200	9,6	5,78	200	11,9	7,05
225	5,5	3,86	225	6,9	4,77	225	8,6	5,89	225	10,8	7,30	225	13,4	8,93
250	6,2	4,83	250	7,7	5,92	250	9,6	7,30	250	11,9	8,93	250	14,8	11,00
280	6,9	5,98	280	8,6	7,40	280	10,7	9,10	280	13,4	11,30	280	16,6	13,70
315	7,7	7,52	315	9,7	9,37	315	12,1	11,60	315	15,0	14,20	315	18,7	17,40
355	8,7	9,55	355	10,9	11,80	355	13,6	14,60	355	16,9	18,00	355	21,1	22,10
400	9,8	12,10	400	12,3	15,10	400	15,3	18,60	400	19,1	22,90	400	23,7	28,00
450	11,0	15,30	450	13,8	19,00	450	17,2	23,50	450	21,5	28,90	450	26,7	35,40
500	12,3	19,00	500	15,3	23,40	500	19,1	28,90	500	23,9	35,70	500	29,7	43,80
560	13,7	23,60	560	17,2	29,40	560	21,4	36,20	560	26,7	44,70	560	33,2	54,80
630	15,4	29,90	630	19,3	37,10	630	24,1	45,90	630	30,0	56,30	630	37,4	69,40

\* The s value calculated according to ISO 4065 is rounded to the nearest 2.0, 2.3, or 3.0.

- For SDR groups not included in the table, the wall thicknesses are found by the calculation method.

■ Values found by the calculation method.

SDR : Standard aspect ratio (outer diameter / wall thickness)

DN : Nominal diameter

S : Wall thickness

# PE-100 System



SDR 13,6; PN 12,5			SDR 11; PN16			SDR 9; PN20			SDR 7,4; PN25			SDR 6; PN32		
DN	S	Weight	DN	S	Weight	DN	S	Weight	DN	S	Weight	DN	S	Weight
mm	mm	kg/m	mm	mm	kg/m	mm	mm	kg/m	mm	mm	kg/m	mm	mm	kg/m
-	-	-	-	-	-	16	2,0*	0,09	16	2,3*	0,10	16	3,0*	0,14
-	-	-	20	2,0*	0,11	20	2,3	0,13	20	3,0*	0,16	20	3,4	0,18
25	2,0*	0,14	25	2,3	0,17	25	3,0*	0,27	25	3,5	0,24	25	4,2	0,28
32	2,4	0,23	32	3,0*	0,27	32	3,6	0,33	32	4,4	0,39	32	5,4	0,45
40	3,0	0,36	40	3,7	0,43	40	4,5	0,51	40	5,5	0,60	40	6,7	0,70
50	3,7	0,55	50	4,6	0,66	50	5,6	0,79	50	6,9	0,94	50	8,3	1,09
63	4,7	0,87	63	5,8	1,05	63	7,1	1,26	63	8,6	1,47	63	10,5	1,73
75	5,6	1,24	75	6,8	1,47	75	8,4	1,76	75	10,3	2,09	75	12,5	2,44
90	6,7	1,77	90	8,2	2,12	90	10,1	2,54	90	12,3	3,00	90	15,0	3,51
110	8,1	2,62	110	10,0	3,14	110	12,3	3,78	110	15,1	4,50	110	18,3	5,24
125	9,2	3,37	125	11,4	4,10	125	14,0	4,87	125	17,1	5,77	125	20,8	6,75
140	10,3	4,22	140	12,7	5,10	140	15,7	6,11	140	19,2	7,25	140	23,3	8,47
160	11,8	5,50	160	14,6	6,70	160	17,9	7,96	160	21,9	9,44	160	26,6	11,00
180	13,3	6,98	180	16,4	8,40	180	20,1	10,10	180	24,6	11,90	180	29,9	14,00
200	14,7	8,56	200	18,2	10,40	200	22,4	12,40	200	27,4	14,80	200	33,2	17,20
225	16,6	10,90	225	20,5	13,10	225	25,2	15,80	225	30,8	18,60	225	37,4	21,80
250	18,4	13,40	250	22,7	16,20	250	27,9	19,40	250	34,2	23,00	250	41,5	27,00
280	20,6	16,80	280	25,4	20,30	280	31,3	24,30	280	38,3	28,90	280	46,5	33,80
315	23,2	21,20	315	28,6	25,60	315	35,2	30,80	315	43,1	36,50	315	52,3	42,70
355	26,1	26,90	355	32,2	32,50	355	39,7	39,10	355	48,5	46,30	355	59,0	54,30
400	29,4	34,10	400	36,3	41,30	400	44,7	49,60	400	54,7	58,80	400	66,7	68,90
450	33,1	43,20	450	40,9	52,30	450	50,3	62,70	450	61,5	74,40	450	75,0	87,36
500	36,8	53,30	500	45,4	64,50	500	55,8	77,30	500	67,6	91,80	500	83,3	107,67
560	41,2	66,90	560	50,8	80,80	560	62,2	97,00	560	75,7	113,61	560	93,3	134,94
630	46,3	84,60	630	57,2	102,00	630	70,0	121,48	630	85,1	143,70	630	105,0	170,83

\* Please contact for price information.