







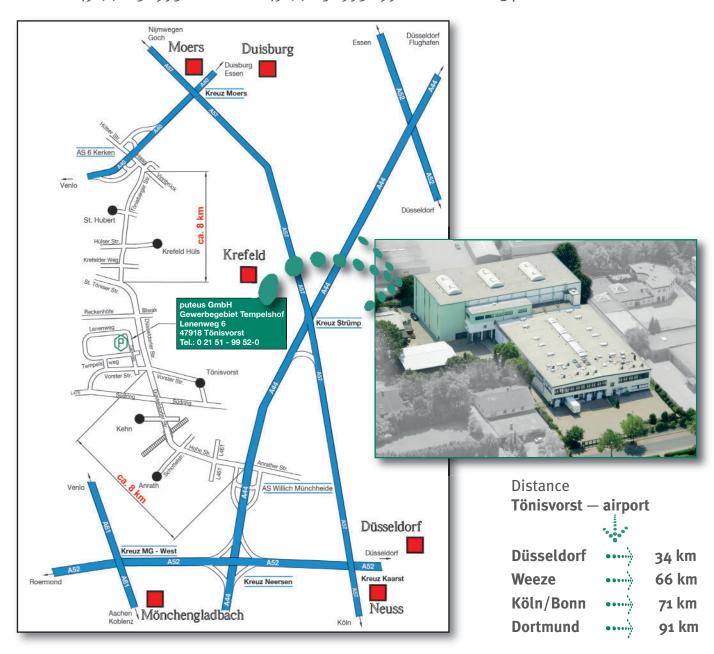


4 Fittings

puteus (P)

How to find us? How to reach us?

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puteus GmbH, a manufacturing and distributing company, was founded in 1979 by the parents of the present share holders. Puteus experienced a rapid development - from a supplier for products of the gardening and irrigation sector to a large range of the heating, plumbing- and garden components.



The company is based in Tönisvorst

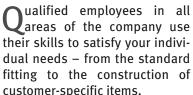


The high-bay warehouse

... we supply individually and promptly.

ur modern warehouse with a capacity of 10.000 pallets and a picking area for further 3.000 pallets allows short delivery times.

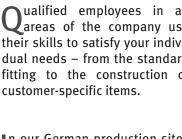
n addition to our standard product range we also design and manufacture lots of OEM products for the sanitary and heating industries in production sites spread all over the world. Many of our products meet the different requirements and regulations, e.g. DVGW, PA-certificates, KIWA, ACS or SVGW.

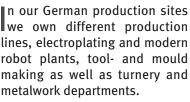


lines, electroplating and modern robot plants, tool- and mould metalwork departments.



Whether the customer orders full pallet units ...







... or wishes smaller packing units ...

The owner-managed family company puteus GmbH was the starting point for a group of companies of, today, about 250 employees. It has set itself the target of combining optimal quality and service and – at the same time – responding flexibly and promptly to the changes in the market. We are distinguished both by continuous development of knowledge and quality improvements of our products that are in the interest of our customers as well as commitment and curiosity for what is new and feasible.





These following companies also belong to the de Gruyter-Stach-Group



► Schlösser Armaturen GmbH & Co. KG

Im Dohm 3 | D-57462 Olpe

Phone: +49-27 61-607-0 | Fax: +49-27 61-607-10

E-Mail: info@schloesser-armaturen.de

Commercial register entry:

AG Siegen | HRA 8076 | UST-IDNR DE 814 779 086 | Sitz Olpe

CEO: Henning de Gruyter | Olaf Stach

Water and heating connection valves bib taps · appliance connection fittings heating fittings · water meters state-certified calibration unit for water meters



► Heinrich Schulte GmbH & Co. KG

Grünlandweg 11 | D-58640 Iserlohn

Phone: +49-23 71-90 90-0 | Fax: +49-23 71-90 90-99

E-Mail: info@heinrichschulte.com

Commercial register entry: AG Iserlohn | HRA 2276 UST-IDNR DE 233 202 839 | Sitz Iserlohn

CEO: Henning de Gruyter | Olaf Stach

Exclusive sanitary taps and mixers



► Heinrich Schulte GmbH & Co. KG

Giesestrasse 30 | D-58636 Iserlohn

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E-Mail: info@heinrichschulte.com

Commercial register entry: AG Iserlohn | HRA 2276 UST-IDNR DE 233 202 839 | Sitz Iserlohn CEO: Henning de Gruyter | Olaf Stach

Exclusive sanitary taps and mixers

www.eine-starke-gruppe.de







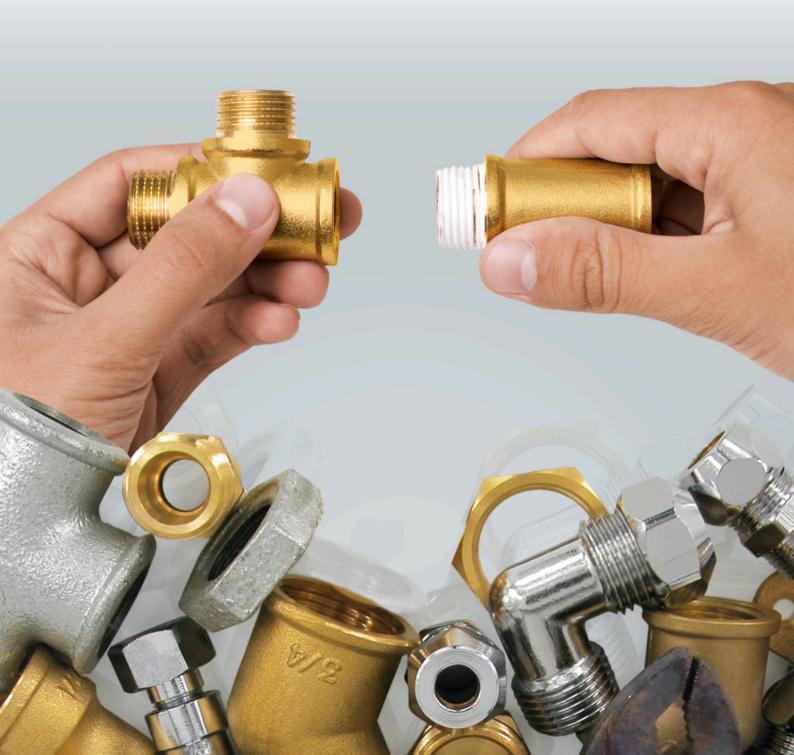












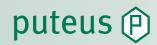


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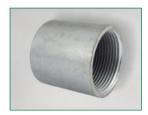
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Brass compression fittings

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Compression fittings of polypropylene

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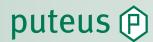


Compression fittings of brass for corrugated pipes

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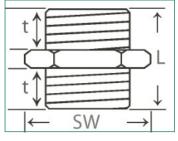




Fittings made of brassMaterial according to drinking water ordinance 50930-6, hot-pressed, thread to DIN EN ISO 228-1

Double nipple



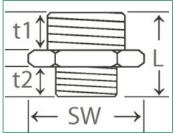


Both sides male threaded, hot-pressed

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Wrench size:	Packing unit:
plain	chroplat.	male x male	t	L	SW	
34408 4	-	1/8"	7	18	10	50/2000
34409 1	-	1/4"	8	20	14	25/1000
34410 7	35410 6	3/8"	9	22	17	50/ 800
34411 4	35411 3	1/2"	10	24	21	50/ 500
34412 1	35412 0	3/4"	11	26	27	15/ 240
34413 8	-	1"	12	29	34	15/ 180
34414 5	-	1 1/4"	15,5	37	42	10/ 150
34415 2	-	1 1/2"	17	38	48	10/ 70
34416 9	-	2"	18	48	60	1/ 36
34417 6	-	2 1/2"	22	50	76	1/ 36
34418-10948	-	3"	25	56	93	2/ 32
34419 0	-	4"	25	64	125	1/ 12

Double nipple, reduced





Both sides male threaded, hot-pressed

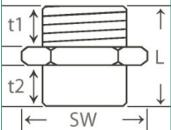
Item-No.:	Item-No.:	Connection:	Thread	llength:	Length:	W.s.:	Packing unit:
plain	chroplat.	male x male	t1	t2	L	SW	
34418 3	-	1/8" x 1/4"	9	8	21	17	50/1200
34428 2	-	1/8" x 3/8"	10	9	23	17	50/ 700
34420 6	-	1/4" x 3/8"	10	9	23	17	50/ 700
34429 9	-	1/4" X 1/2"	10	9	23	21	25/ 500
344213	354212	3/8" x 1/2"	10	9	23	21	25/ 600
34427 5	35427 4	3/8" x 3/4"	10	9	24	27	25/ 500
34422 0	35422 9	1/2" x 3/4"	10,5	10,5	26	27	25/ 300
34877 8	-	1/2" X 1"	12	10,5	28	34	25/ 200
34875	-	1/2" X 1 ½"	16	10,5	34	43	-/ -
344237	-	3/4" x 1"	12	11	28	34	10/ 150
34870 9	-	3/4" x 1 ½"	15	10	35	42	10/ 150
34424 4	-	1" X 1 1/4"	14	12	32	42	10/ 100
34871 6	-	1" X 1 ½"	18	13	39	50	10/ 70
34425 1	-	1 ½" X 1 ½"	18	14	38	48	10/ 80
344268	-	1 ½" X 2"	18	14	44	60	1/ 48
34872 3	-	2" X 2 ½"	22	22	54	80	1/ 54
34873 0	-	2" x 3"	20	22	52	89	1/ 18
348747	-	2 ½" X 3"	30	27	67	89	1/ 30
34428-10948	-	3" x 4"	25	25	50	-	2/ 12

Double nipple, reduced

 $\label{thread} Female\,thread\,x\,male\,thread, female\,thread\,with\,flat\,seal,\,including\,seals\,made\,of\,NBR,\,hot-pressed$

Item-No.:	Item-No.:	Connection:	Threadle	ength:	Length:	Wr.size:	Pack. unit:
plain	chroplat.	female x male	t1	t2	L	SW	
34430 5	-	1/4" x 3/8"	11	10	24	17	50/1000
34431 2	-	3/8" x 1/2"	12	10	25	21	20/ 400
34432 9	35432 8	1/2" x 3/4"	10,5	11	25	27	15/ 300
34433 6	-	3/4" x 1"	12	11	26	33	15/ 150
344343	-	1" X 1 1/4"	14	12	30	41	10/ 200
34435 0	-	1 ½" X 1 ½"	18	17	43	47	10/ 100
344367	-	1 ½" X 2"	20	19	46	60	1/ 60



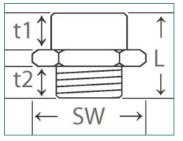


Double nipple, reduced

 $\label{eq:male_problem} \textbf{Male thread x female thread, female thread with flat seal, including seals made of NBR, hot-pressed$

Item-No.:	Item-No.:	Connection:	Threadle	ength:	Length:	Wr.size:	Pack. unit:
plain	chroplat.	male x female	t1	t2	L	SW	
34440 4	-	1/4" x 3/8"	9	10	22	21	50/500
344411	35441 0	3/8" x 1/2"	11	10	25	25	20/300
344428	354427	1/2" x 3/4"	10	10	23	29,7	20/300
34443 5	-	3/4" x 1"	11	11	26	36	15/ 150
34444 2	-	1" X 1 1/4"	12	12	29	45	10/ 100
34445 9	-	1 ½" X 1 ½"	14	20	38	55	10/ 70
34446 6	-	1 ½" X 2"	18	21	43	70	10/ 60



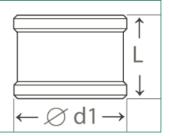


Socket

Female thread, hot-pressed

Item-No.:	Item-No.:	Connection:	Length:		Packing unit:
plain	chroplat.		L	Ø d1	
344688	35468 7	1/8"	16	13,8	50/1000
34469 5	35469 4	1/4"	18	18	50/ 900
34460 2	35460 1	3/8"	24	23	20/ 400
344619	354618	1/2"	25,5	26,8	15/ 300
34462 6	35462 5	3/4"	29	34	10/ 200
34463 2	-	1"	30,5	41	10/ 100
34464 0	-	1 1/4"	36	51	10/ 80
344657	-	1 1/2"	40,1	58	5/ 60
34466 4	-	2"	43	69	5/ 50

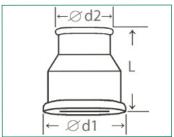






Socket, reduced



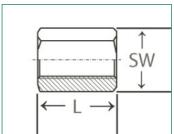


Both sides female threaded, hot-pressed

Item-No.:	Item-No.:	Connection:	Length:			Packing unit:
plain	chroplat.		L	Ø d1	Ø d2	
34470 1	35470 0	1/4" x 3/8"	23	23	18	25/450
34478 7	35478 6	3/8" x 1/2"	27	27	23	20/300
34472 5	35472 4	1/2" x 3/4"	27	34	27	10/200
34479 4	35479 3	1/2" X 1"	40	41,5	27,5	10/100
34473 2	35473 1	3/4" x 1"	37,5	41,5	34	10/100
34477 0	-	3/4" X 1 ½"	40	51	34	10/120
34474 9	35474 8	1" X 1 1/4"	43	51	41,5	10/ 80

Socket, with external hexagon



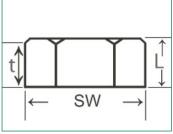


Female thread, hot-pressed

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Wrench size:	Packing unit:
plain	nickel plat.			L	SW	
-	S-467	1/8"	15	15	13	100/2500
-	S-468	1/4"	22	22	17	50/1000
-	S-699	3/8"	22	22	22	25/ 600
-	S-469	1/2"	26	26	27	25/ 350
-	S-769	3/4"	34	34	32	25/ 200

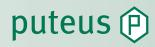
Cap





External hexagon, male thread, hot-pressed

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Wrench size:	Packing unit:
plain	chro. plat.	male		L	SW	
344888	-	1/8"	8	10	12,9	100/2400
34489 3	-	1/4"	8	10	15,9	50/1500
34480 o	35480 9	3/8"	8	10,5	18,5	50/1200
344817	354816	1/2"	9	12	23	50/ 700
34482 4	35482 3	3/4"	12	14	29	50/ 400
34483 1	35483 0	1"	12,5	15	38	25/ 200
344848	354847	1 1/4"	14	17	46	25/ 150
34485 5	-	1 1/2"	16	19,5	53	10/ 150
34486 2	-	2"	17	19,5	64	10/ 90

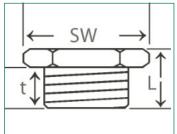


Male thread x female thread, hot-pressed

Item-No.:	Item-No.:	Connection:	Threadle	ength:	Length	W.s.:	Pack. unit:
plain	chroplat.	male x female	m	f	L	SW	
344497	-	1/4" x 1/8"	7	11	11	14	100/2000
34458 9	-	3/8" x 1/8"	10	15	15	17	50/1000
34450 3	35450 2	3/8" x 1/4"	10	15	15	17	100/1200
34451 0	354519	1/2" x 3/8"	12	16	16	21	25/ 600
S-3761	-	1/2" x 3/8"	12	18	18	24	50/ 500
34459 6	-	1/2" X 1/4"	12	16	16	21	25/ 600
S-3760	-	1/2" X 1/4"	12	18	18	24	50/ 400
34457 2	35457 1	3/4" x 3/8"	13	19	19	27	25/ 300
344527	35452 6	3/4" x 1/2"	13	18	18	27	25/ 500
346835	-	1" x 3/8"	14	14	21	34	10/ 150
344473	35447 2	1" X 1/2"	14	14	22	34	25/ 150
34453 4	35453 3	1" x 3/4"	13	19	19	34	25/ 250
34684 2	-	1 ½" X 3/4"	20	16	31	44	10/ 80
34454 1	-	1 1/4" X 1"	15	22	22	42	10/ 150
346859	-	1 ½" X 3/4"	16	19	25	50	10/ 120
346866	-	1 ½" X 1"	16	18	25	50	-/ 80
34455 8	-	1 ½" X 1 ¼"	13	23	23	50	10/ 160
346873	-	2" X 1"	17	20	26,5	60	-/ 40
34448 0	-	2" X 1 1/4"	17	18	26,5	60	10/ 50
34456 5	-	2" X 1 ½"	18	26,5	26,5	60	5/ 50
34438 1	-	2 ½" X 2"	22	32	32	78	1/ 44
34688 o	-	3" X 2"	23	26,5	36	90	1/ 36
34439 8	-	3" X 2 ½"	23	36	36	93	1/ 36

Bushing



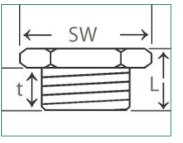


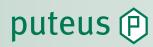
Brass plug

External hexagon, hot-pressed

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Wrench size:	Packing unit:
plain	chro. plat.	male	t	L	SW	
340017	-	1/8"	7	12	13	100/1300
34002 4	-	1/4"	7	12	14	100/1500
34003 1	-	3/8"	9	15	17	50/1250
340048	-	1/2"	9	15	21	50/1200
34005 5	-	3/4"	11	18,5	27	25/ 300
34006 2	-	1"	12	20	34	25/ 150

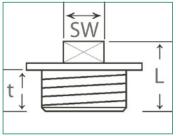






Brass plug



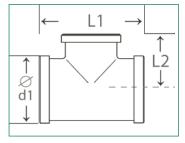


Square head, with collar, hot-pressed

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Wrench size:	Packing unit:
plain	chro. plat.	male	t	L	SW	
34490 9	35490 8	3/8"	8	15,5	12	50/800
34491 6	354915	1/2"	8,5	17,5	12	50/600
34492 3	35492 2	3/4"	8,5	17,5	14	20/400
34493 0	35493 9	1"	13	22,5	17	25/200
344947	-	1 1/4"	13	23	19	10/ 150
34495 4	-	1 1/2"	13	26	22	10/100
34496 1	-	2"	14	28	24	10/ 70

Tee



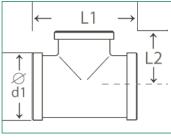


All sides female threaded, hot-pressed

Item-No.:	Item-No.:	Connect.:	Thread- length:	Length:			Pack. unit:
plain	chro. plat.	female	t	L1	L2	Ø d1	
S-1821	-	1/8"	9,5	31	15,75	14,5	10/120
346095	-	1/4"	13	35	16,5	21	25/250
34600 2	35600 1	3/8"	12	48	24,5	21	10/180
346019	356018	1/2"	13	51	27,25	28,5	10/100
346026	35602 5	3/4"	14	61	30,4	30,7	10/ 80
346033	35603 2	1"	18	75	34,5	40	5/ 50
34604 0	-	1 1/4"	19	89	44	50	5/ 30
346057	-	1 1/2"	21	95	47	58	1/ 30
34606 4	-	2"	20	101	50,5	69	1/ 16

Tee, reduced





All sides female threaded, hot-pressed

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:			Pack. unit:
plain	chro.plat.	female	t	L1	L2	Ø d1	
34671 2	-	1/2" x 3/8" x 1/2"	13	44	22	28,5	25/180
34672 9	-	3/4" x 1/2" x 3/4"	16	53,5	27,4	33,2	10/100
34673 6	-	1" x 3/4" x 1"	18	68	32	40	10/ 70
34678 1	-	3/4" x 3/4" x 1/2"	15	59	29,4	33,2	10/ 80

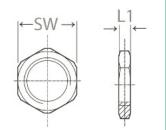
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Locknut

External hexagon, hot-pressed

Item-No.:	Item-No.:	Connection:	Length:	Wrenchsize:	Packing unit:
plain	chro.plat.	female	L1	SW:	
34613 2	-	1/8"	4,5	14	100/3200
34614 9	-	1/4"	5	17	100/3200
34615 6	-	3/8"	5	25	-/ 1100
34615-SW19 6	-	3/8"	5	19	-/-
52075 4	-	1/2"	5	27	-/ 1100
34616 3	-	3/4"	6	32	50/ 800
34617 0	-	1"	8	38	-/ 500
34610 1	-	1 1/4"	7	50	50/ 500
34619 4	-	1 1/2"	7	56	50/ 400



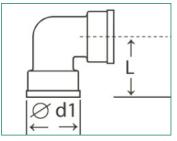


Elbow (90°)

Both sides female threaded, hot-pressed

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:		Packing unit:
plain	chro.plat.	female		L	Ø d1	
S-1699	-	1/8"	10	15	14	25/300
346293	-	1/4"	10	18,5	21	50/400
34620 0	35620 9	3/8"	11	21,5	23	10/200
346217	356216	1/2"	13	25,25	27,5	25/100
34622 4	356223	3/4"	16	28,75	35,5	10/120
346231	35623 0	1"	18	33,5	41	10/ 70
346248	-	1 1/4"	19	46,5	51	5/ 50
34625 5	-	1 1/2"	21	57	58	5/ 30
34626 2	-	2"	23	58,5	71	1/ 20



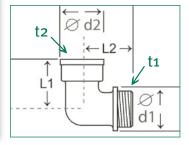


Elbow (90°)

Female thread x male thread, hot-pressed

Item-No.:	Item-No.:	Conn.:	Thread	Threadlength: Length:					Packing unit:
plain	chro. plat.	f x m	m t1	f t2	L1	L2	Ø d1	Ø d2	
34649 1	-	1/4"	9	9	25	34,5	18	21	50/300
346408	356407	3/8"	10	11	25,75	29,25	22,5	23,5	25/250
346415	356414	1/2"	11	13	30,35	30,75	25,5	27,5	10/120
34642 2	35642 1	3/4"	14	16	38,5	38,5	32	34	10/100
34643 9	356438	1"	15	19	44	44	38	40	10/ 60
34644 6	-	1 1/4"	18	19	53	57	47	50	5/ 40
34645 3	-	1 1/2"	21	21	57	62	53	58	5/ 30
34646 0	-	2"	22	23	70	76	66	70	1/ 16
34648 4		3"	27	27	95	95	100	100	-/-

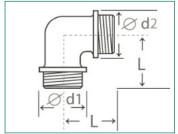






Elbow (90°)



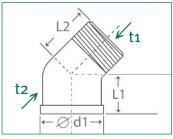


Both sides male threaded, hot-pressed

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:		Packing unit:
plain	chro. plat.	male x male		L	Ø d1	
346507	35650 6	3/8"	10	30	22,5	25/250
34651 4	356513	1/2"	10,5	30,75	26,5	25/150
34652 1	35652 0	3/4"	14	38,5	32	10/100
346538	-	1"	15	43	38	10/ 70

Elbow (45°)



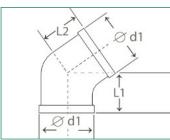


Male thread x female thread, hot-pressed

Item-No.:	Item-No.:	Conn.:	Threadl	ength:	Length	:		Packing unit:
plain	chro. plat.	m x f	m t1	f t2	L1	L2	Ø d1	
34770 2	-	3/8"	10	12	20	22	26	25/250
34771 9	-	1/2"	12	14	22	25,5	28	25/240
34772 6	-	3/4"	12	14	25	32	35	10/120
34773 3	-	1"	15	18	26,5	32	41	-/ 70
347788	-	3"	29,5	27	60	60	100	1/ 6

Elbow (45°)





Female thread x female thread, hot-pressed

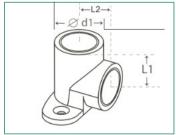
Item-No.:	Item-No.:	Conn.:	Thread- length:	Length:			Packing unit:
plain	chro. plat.	fxf		L1	L2	Ø d1	
34780 0	-	3/8"	12	20	20	26	-/-
347817	-	1/2"	14	22	22	28	-/200
34782 5	-	3/4"	14	25	25	35	10/120

Female thread x female thread, hot-pressed

Item-No.:	Item-No.:	Conn.:	Thread- length:	Length:			Packing unit:
plain	chro. plat.	fxf		L1	L2	Ø d1	
347917	35791 6	1/2"	11	22	19	26	10/160

Wall bracket (90°)



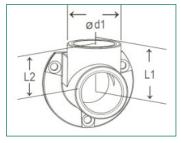


Wall bracket (90°)

Female thread x female thread, hot-pressed

Item-No.:	Item-No.:	Conn.:	Thread- length:	Length:			Packing unit:
plain	chro. plat.	fxf		L1	L2	Ø d1	
34792 4	-	3/4"	12	23,7	25,5	31,5	10/100



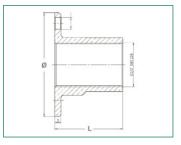


Wall plate (90°)

Female thread x female thread, hot-pressed, horizontal passage

Item-No.:	Item-No.:	Conn.:	Thread- length:	Length:			Packing unit:
plain	chro. plat.			L	Ø	Wrench size:	
S-4106	-	G 1/2"		32	49	26	-/180

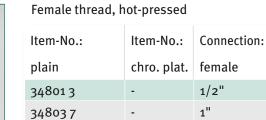


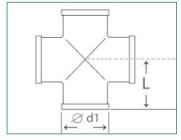




Cross fitting, 90°







Y-connector



Nominal diameter 1/2", 2 x male threads, 1 x female thread, without seal

Item-No.:	Item-No.:	Connection:	Threadlength:	Length:	Packing unit:
plain	chro. plat.	f/m	t1	L1	
34992 8	359927	3/4"	9	26	10/150
349997	35999 6	3/4"	9	32	-/-

Thread-length:

15

18

Length:

28,5

37,5

Ø d1

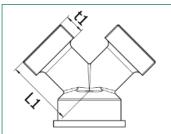
24

38

Packing unit:

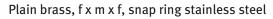
10/120

-/-

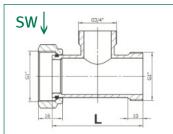


T-piece with union nut





Item-No.:	Connec.: F x M (1) x M (2)	Thread- length: t1 IG/t2 AG	Length:	Wrench size:	Packing unit:
S-3412	G1" x G3/4" x G1"	16/10	60	37	-/-

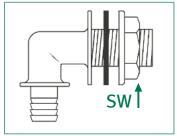


Tank connector

Incl. lock nut and NBR-thread

Item-No.:	Connection:	NW-spout:	Wrench size:	Packing unit:
S-385-11463-N	F 1" x M 1"	25 mm	38	5/40
Replacement seal				
S-385-Dichtung	34 x 50 x 3 mm			-/-
S-385-Körper	only body, M 1"	25 mm		5/40
S-385-Mutter	F 1", Ø 55 x 10,5 mm		38	



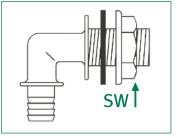


Tank connector (market model)

Incl. lock nut and NBR-thread

Item-No.:	Connection:	NW-spout:	Wrench size SW:	Packing unit:
S-3213	f 1" x m 1"	25 mm	37	5/40
Replacement seal				
S-3222-1/2-D	33 x 29 x Ø 11 mm			



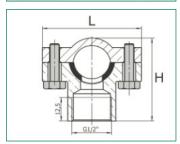


Compression fitting

SBR-thread with textile insert

Item-No.:	Connection:	Length L:	H:	Packing unit:
S-3222-1/2	22 mm x G 1/2"	52,5 mm	44	-/90



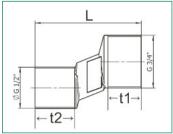




S-connector

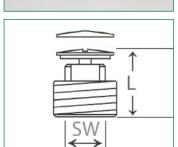


5-connector hippie, nicket plated, extension 12,5 mm, 3/4 m x 1/2 m, wrench size 16							
Item-No.:	Item-No.:	Connection:	Threadl	ength:	Length:	Wrench size:	Pack. unit:
plain	chro. plat.		t1	t2	L	SW:	
-	35610 0	3/4" m x 1/2" m	16	19	51	16	25/200



Plug with slotted screw





Plug, plain brass with slotted screw chrome-plated

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Wrench size:	Packing unit:
		male		L	SW:	
34618 7	-	3/8"	10	20	9	25/1000
34611 8	-	1/2"	11	21	9	50/ 500
34612 5	-	3/4"	14	26	12	25/ 500
Accessories: Pro	tective plast	ic cap				
34611-Kappe		universal				500/10000
Closing plug, pla	in brass witl	n slotted screw	chrome-p	lated + p	rotective	e plastic cap
34618-11325		3/8"	10	20	9	25/1000
34611-11325		1/2"	11	21	9	25/ 800
34612-11325		3/4"	14	26	12	25/ 500

Compression fittings for copper pipes

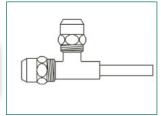
Material in accordance with DIN 50960-6, operating temperature max. 90°C, operating pressure max. 10 bar.

Important note: compression fittings are for single use only!

T-branch piece

T-piece with extension and two high tensile brass cone compression fittings with length compensation, chrome plated

Item-No.:	Connection:	Leaving:	Packing unit:
522673	3/8"	3/8" x 10 mm	25/100

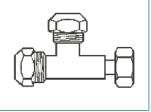




T-branch piece

T-piece with union nut and two high tensile brass cone compression fittings with length compensation, chrome plated

Item-No.:	Connection:	Leaving:	Packing unit:
52267-3/8"	3/8"	3/8" x 10 mm	25/150

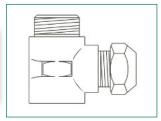




T-branch piece

 $\label{thm:compression} \mbox{T-piece female/male with a compression fitting, chrome plated}$

Item-No.:	Connection:	Leaving:	Packing unit:
52463 9	1/2" X 1/2"	3/8" x 10 mm	10/200
524646	1/2" X 1/2"	1/2" X 12 mm	10/200

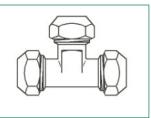




T-branch piece

T-piece with 3 x compression fittings, chrome plated

Item-No.:	Connection:	Packing unit:
52470 7	3/8" x 8 mm	10/200
52471 4	3/8" x 10 mm	10/200
52472 1	1/2" X 12 mm	10/160

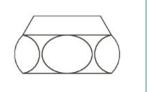






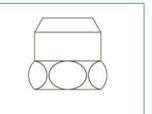
Compression fitting, loose





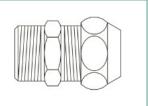
Compression fitting, loose





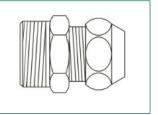
Single compression fitting





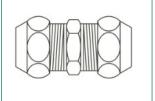
Single compression fitting





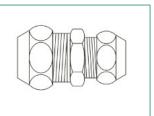
Double compression fitting





Double compression fitting





Compression fitting without length compensation, chrome-plated

Item-No.:	Connection:	Packing unit:
52450 9	3/8" x 8 mm	25/1000
52451 6	3/8" x 10 mm	25/1000
52452 3	3/8" x 12 mm	25/1000
52450-1/2"	1/2" x 8 mm	25/1000
52451-1/2"	1/2" X 10 mm	25/1000
52452-1/2"	1/2" X 12 mm	25/1000

Compression fitting with length compensation, chrome-plated

Item-No.:	Connection:	Packing unit:
52451-lang	3/8" x 10 mm	150/750

On nipple, chrome-plated

Item-No.:	Connection: m x m x Ø	Packing unit:
524943	3/8" x 3/8" x 8 mm	25/250
52495 0	3/8" x 3/8" x 10 mm	25/250
52497 4	1/2" X 1/2" X 10 mm	25/200
524967	1/2" X 1/2" X 12 mm	25/200

On reducing nipple, chrome-plated

Item-No.:	Connection: m x m x Ø	Packing unit:
52498 1	3/4" x 3/8" x 10 mm	25/-

Chrome-plated

Item-No.:	Connection: mxmxØ	Packing unit:
52490 5	3/8" x 3/8" x 8 mm	25/250
52491 2	3/8" x 3/8" x 10 mm	25/250
52491-12 mm	3/8" x 3/8" x 12 mm	25/250
52492 9	1/2" X 1/2" X 12 mm	25/250

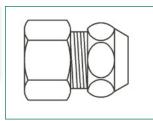
Reduced, chrome-plated

Item-No.:	Connection: m x m x Ø	Packing unit:
52493 6	3/8" x 10 mm x 3/8" x 8 mm	25/400
52499 8	1/2" X 12 mm X 3/8" X 10 mm	50/700

On nipple with female thread, chrome-plated

Item-No.:	Connection: fxmxØ	Packing unit:
52495-IG	3/8" x 3/8" x 10 mm	50/500
52499-IG	1/2" x 3/8" x 10 mm	25/300

Compression fitting

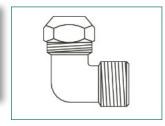




Elbow male/male with single compression fitting, chrome-plated

Item-No.:	Connection: m x m x Ø	Packing unit:
524868	3/8" x 3/8" x 10 mm	25/300
52486-1/2"	1/2" X 1/2" X 10 mm	10/250
52487 5	1/2" X 1/2" X 12 mm	25/150

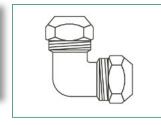
Elbow with one compression fitting





Item-No.:	Connection: m x m x Ø	Packing unit:
52480 6	3/8" x 3/8" x 8 mm	25/400
524813	3/8" x 3/8" x 10 mm	25/400
52487-11001	1/2" X 1/2" X 12 mm	25/-

Elbow male/male with two compression fittings, chrome-plated **Elbow with two compression fittings**

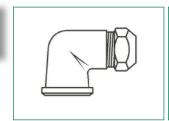




Elbow female/male with compression fitting, chrome-plated

Item-No.:	Connection: $f x m x \emptyset$	Packing unit:
524837	1/2" x 3/8" x 10 mm	10/150

Elbow with one compression fitting

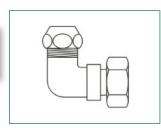




Elbow, rotable, union nut at one and compression fitting at the other end, chrome-plated

Item-No.:	Connection: fxmxØ	Packing unit:
52489 9	3/8" x 3/8" x 10 mm	10/250

Elbow with one compression fitting

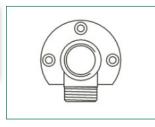




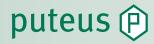
Wall plate elbow, without compression fitting, chrome-plated

Item-No.:	Connection: fxmxØ	Packing unit:
52466 0	1/2" x 3/8" x 12,5 mm	10/120
524677	1/2" X 1/2" X 12,5 mm	15/180

Wall plate elbow





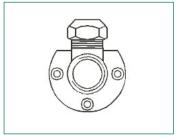


Wall plate elbow



Wall plate elbow, with one compression fitting, chrome-plated

Item-No.:	Connection: fxmxØ	Packing unit:
52461 5	1/2" x 3/8" x 10 mm	10/100
52462 2	1/2" X 1/2" X 12 mm	10/150



Accessories for compression fittings



Clamping ring for brass compression fittings, series 524xx, chrome-plated

Item-No.:	Connection:	Packing unit:
52455 4	3/8" x 8 mm	1000/15000
52456 1	3/8" x 10 mm	1000/15000



Wall plate elbow



Wall plate elbow, brass plain, with one compression fitting

Item-No.:	Connection: fxmxØ	Packing unit:
34881 5	1/2" X 1/2" X 16 mm	25/150

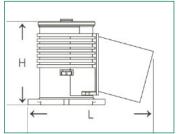


Wall box

Wall box easy with Euro adapter connection, female thread/male thread, housing polypropylene with talc, fitting brass, screws stainless steel

Item-No.:	Connection:	Length:		Packing unit:				
		L	Н					
S-2828	1/2" x 3/4"	95	63	-/72				
Replacement gask	Replacement gasket							
S-2828-Dichtung	Ø12 x Ø37 x 25,5 mm			50/450				



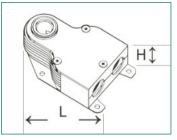


Wall box

Wall box double with Euro adapter connection, female thread/male thread, housing polypropylene with talc, fitting brass, screws stainless steel

Item-No.:	Connection:	Length:		Packing unit:
		L	Н	
S-2829	1/2" X 3/4"	132	40,5	-/48



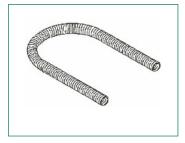


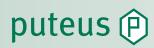
Bending spring

Bending spring for compound pipe, galvanized steel

Item-No.:	Connection:	Length:		Packing unit:
	\varnothing inside/outside	L	Н	
S-2928-16	16,7 / 20,85	500		1/40
S-2928-20	20,6 / 24,6	500		1/34

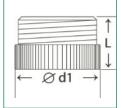






Adapter fitting

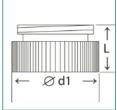




Brass chrome-plated

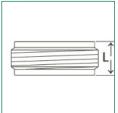
Item-No.:	Connection:	Thread- length:		Length		Packing unit:
		f	m	L	Ø d1	
356308	M 22/1" f x 1/2" m	5,5	8,5	16	24	50/1000
356315	M 22/1" f x 3/4" m	6	9,5	16	26	50/ 500





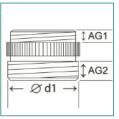
Item-No.:	Connection:	Thread- length:				Packing unit:
		m	f	L	Ø d1	
35632 2	M 22/1" m x 1/2" f	2,5	7,5	13	24	50/1000
35633 9	M 22/1" m x 3/4" f	6,5	8,5	16,5	29	50/ 700





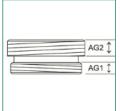
Item-No.:	Connection:	Length:	Packing unit:
356346	M 22/1" f x 3/4" m x 1/2" f	10	50/2000





Item-No.:	Connection:	Threadlength: m m		Length:		Packing unit:
		AG1	AG2	L	Ø d1	
356353	M 24/1" m x 3/4 m	4,5	7	18,5	27	50/400





Item-No.:	Connection:	Threadlength: m m		Length	Packing unit:
with sealing		AG1	AG2	L	
35636 o	M 24/1" m x M 22/1 m	4	3,5	9,5	50/1000

Seals

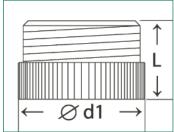
Item-No.:	for item:	Connection:	Item-No.:	for item:	Connection:
35630/31-Dichtung	35630/31	21 X 15 X 1,5 mm	35633/38/39-Dichtung	35633/38/39	24 x 16 x 2,5 mm
35632-Dichtung	35632	18,5 x 15 x 2 mm	35636-Dichtung	35636	21 X 15 X 2,5 MM
35635-Dichtung	35635	22 X 17 X 1,5 MM			

Adapter fitting

Brass chrome-plated, knurled, with sealing

Item-No.:	Connection:	Threadlength:		Threadlength: Length:		Packing unit:
		male	female	L	Ø d1	
35638 4	1/2" m x 3/4" f	10	9,5	20	29	50/600



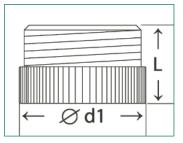


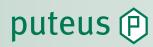
Adapter fitting

Brass chrome-plated, corded or with external hexagon, with sealing

Item-No.:	Connection:	Threadlength:		: Length:		Wrench- size:	Packing unit:
		m	f	L	Ø d1	SW:	
35639 1	1" f x 3/4" m	10	10	22	38	-	25/250
35432-40748	1/2" f x 3/4" m	8	8	17	26	23	50/800

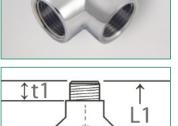






Y-connector



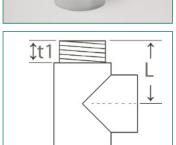


Brass polished chrome-plated, 2 x female, 1 x male thread

Item-No.:	Item-No.:	Connec.:	Thread- length:	Length:		Packing unit:
plain	chrom. plat.		t1	L1	L2	
-	35991 0	1/2"	12	42	32	10/120

Tee



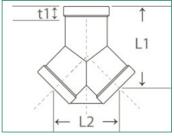


Brass, polished chrome-plated, 1/2" male x 1/2" female x 1/2" female thread

Item-No.:	Connection:	Threadlength:		Length:	Packing unit:
chrome-plated		m tı	f	L	
35997 2	1/2"	10	15	28	10/120

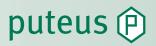
Y-connector





3 x 3/8" female thread

Item-No.:	Item-No.:	Connec.:	Thread- length:	Length:		Packing unit:
plain	chrom. plat.		t1	L1	L2	
S-1828	-	3/8"	16	39	30	10/150

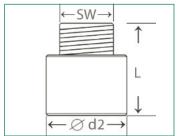


Adapter fitting

Item-No.:	Item-No.:	Connection:	Threadl	ength:	Length	1:	Wre size:	Packing unit:
plain	chro. pla.		f	m	f/m	Ø d2	SW	
346378	356377	1/2" f x 3/8" m	14	10	29	25,5	11	20/300
34690 3	35690 2	3/4" f x 1/2" m	13	11	30	31,5	12	20/180
346919	35691 0	3/4" f x 3/8" m	14	10	29	32	11	20/240

Extension, reduced

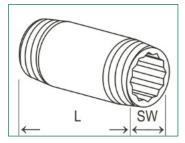




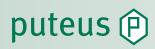
Brass pipe

With internal polygon, on both sides tapered male thread according to EN10226-1/ISO7-1





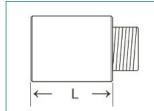
	R3/8"	R3/8"	R1/2"	R1/2"	R3/4"	R3/4"	R1"	R1"	
Länge:	SW 10 blank	SW 10 verchromt	SW 12 blank	SW 12 verchromt	SW 17 blank	SW 17 verchromt	SW 22 blank	SW 22 verchromt	VE:
30 mm	29210 1	29215 6	292118	29216 3	29212 5	29217 0	29213 2	29218 7	-/10
40 mm	29220 0	29225 5	292217	29226 2	29222 4	29227 9	292231	292286	-/10
50 mm	29230 9	29235 4	292316	29236 1	29232 3	292378	29233 0	29238 5	-/10
60 mm	292408	29245 3	292415	29246 0	29242 2	292477	29243 9	29248 4	-/10
80 mm	292507	29255 2	292514	29256 9	29252 1	29257 6	292538	29258 3	-/10
100 mm	292606	29265 1	292613	292668	29262 0	292675	292637	29268 2	-/10
120 mm	29270 5	29275 0	29271 2	29276 7	29272 0	29277 4	292835	29278 1	-/10
130 mm	-	-	-	-	-	-	29293 4	-	-/10
150 mm	29280 4	292859	292811	292866	292828	292873	-	29288 0	-/10
200 mm	29290 3	292958	292910	29296 5	292927	29297 2	-	29298 9	-/10



Tap extension



Plain brass or chrome-plated brass, according to DIN 3523



Con.:	plain	chr. pla.	Packing unit:									
Lmm	G3/8"	G3/8"		G 1/2"	G 1/2"		G3/4"	G3/4"		G 1"	G 1"	
10	34810 9	35810 4	10/500	34811 2	35811 1	10/400	34812 9	35812 8	10/200	-	-	-
15	34815 0	35815 9	10/500	34816 7	35816 6	10/300	34817 4	35817 3	10/200	-	-	-
20	348204	35820 3	10/400	348211	35821 0	10/250	348228	358227	10/150	34823 5	35823 4	10/100
25	34825 9	35825 8	10/300	34826 6	35826 5	10/200	348273	35827 2	10/150	34828 0	35828 9	10/100
30	34830 3	35830 2	10/250	348310	35831 9	10/150	348327	35832 6	10/150	34833 4	358333	10/ 50
35	348358	-	10/200	34836 5	-	10/100	34837 2	-	10/100	-	-	
40	34840 2	35840 1	10/200	348419	358418	10/150	34842 6	35842 5	10/100	34843 3	35843 2	10/100
45	348457	-	10/150	34846 4	35846 3	5/100	348471	35847 0	5/ 50	-	-	
50	34850 1	35850 o	5/ 150	348518	358517	5/100	34852 5	35852 4	5/ 50	34854 9	358548	5/ 50
60	34855 6	-	5/ 100	34856 3	-	5/100	34857 0	-	5/ 50	-	-	
65	34860 o	35860 9	5/ 100	348617	358616	5/100	34862 4	35862 3	5/ 50	-	-	-
80	34865 5	35865 4	5/ 100	34866 2	35866 1	5/ 50	34867 9	358678	5/ 50	-	-	-
100	34859 4	358593	5/ 50	34858 7	35858 6	5/ 50	34868 6	-	5/ 50	348648	358647	5/ 30

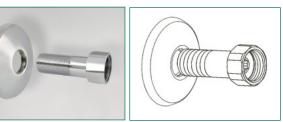
Fittings, model SUISSE, with SVGW-certification



Straight screw fitting, chrome-plated and polished, with screw rosette

Item-No.:	Connection:	Packing unit:
35710 7	3/8" x 1/2" x 55 mm	18/216
35711 4	1/2" X 1/2" X 55 mm	18/162
35712 1	1/2" x 1/2" x 65 mm	-/-
35713 8	1/2" x 3/4" x 60 mm	12/120

Screw fitting



Eccentric screw fitting, 5 mm, chrome-plated and polished, with push-on rosette

Item-No.:	Connection:	Packing unit:
35723 7	1/2" x 1/2" x 63 mm	20/80
35724 4	1/2" x 3/4" x 68 mm	20/80

Screw fitting

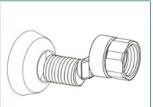


Eccentric screw fitting, 17 mm, chrome-plated and polished, with push-on rosette

Item-No.:	Connection:	Packing unit:
35728 2	3/8" x 1/2" x 68 mm	1/60
35729 9	1/2" x 1/2" x 68 mm	1/60
35730 5	1/2" x 3/4" x 68 mm	1/60

Screw fitting



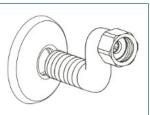


Eccentric screw fitting, 30 mm, chrome-plated and polished, with screw rosette

Item-No.:	Connection:	Packing unit:
35717 6	3/8" x 1/2" x 65 mm	12/120
35718 3	1/2" x 1/2" x 65 mm	14/112
35719 0	1/2" x 3/4" x 68 mm	12/96

Screw fitting

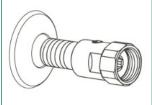






Screw fitting



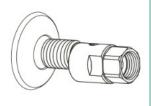


Straight screw fitting, chrome-plated and polished, with pushon rosette

Item-No.:	Connection:	Packing unit:
35714 5	3/8" x 1/2" x 62 mm	10/60
35715 2	1/2" X 1/2" X 62 mm	10/60
35716 9	1/2" x 3/4" x 65 mm	10/60

Screw fitting



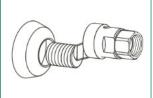


Eccentric screw fitting, 5 mm, chrome-plated and polished, with push-on rosette

ArtNr.:	Abm.:	VE:
35720 6	3/8" x 1/2" x 62 mm	20/80
35721 3	1/2" X 1/2" X 62 mm	20/80
35722 0	1/2" x 3/4" x 65 mm	20/80

Screw fitting



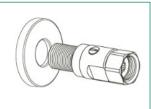


Eccentric screw fitting, 17 mm, chrome-plated and polished, with push-on rosette

Item-No.:	Connection:	Packing unit:
35725 1	3/8" x 1/2" x 82 mm	1/60
357268	1/2" X 1/2" X 82 mm	1/60
35727 5	1/2" x 3/4" x 85 mm	1/60

Screw fitting





Straight screw fitting, 17 mm, chrome-plated and polished, with screw rosette

Item-No.:	Connection:	Packing unit:
35738 1	1/2" X 1/2" X 72 mm	10/60
35739 8	1/2" x 3/4" x 75 mm	10/60

Replacement gaskets for connecting couplings

AFM 34, KTW-certified, 18 x 10 x 2 mm (1/2")

Item-No. seal:	for Item	n-No.:										
35710-AFM	35710	35711	35712	35714	35715	35717	35718	35720	35721	35723	35725	35726
	35728	35729	35739									
Novapress 260 or	equivale	nt, 24 x	14 x 3 mr	n								
WS-551-Dtg-3mm	35713	35716	35719	35722	35724	35727	35730	35739				



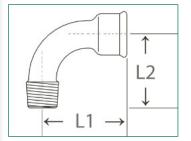
Malleable galvanized fittings according to DIN EN 10242, design symbol A, material according to DIN EN 1562 (EN-GJMB-350-10), threads according to ISO 7.1, connection thread to DIN EN ISO 228-1, max. 0° - 120° C 25 bar, 120° - 300° C 20 bar

Long bend (1), ISO G 4

Female thread x male thread, long, 90°

					Length:		
Item-No.:	Item-No.:	Connec.:	Threadle	Threadlength:			Packing unit:
zinc plated	black		f	m	L1	L2	
400001	40000-S	1/4"	10	13	40	36	10/400
40010 0	40010-S	3/8"	10	12	48	42	10/280
400117	40011-S	1/2"	13	15	55	48	10/180
40012 4	40012-S	3/4"	15	18	69	60	10/ 80
40013 1	40013-S	1"	17	20	85	75	10/ 50
400148	40014-S	1 1/4"	19	22	105	95	10/ 30
40015 5	40015-S	1 1/2"	20	22	116	105	5/ 20
40016 2	40016-S	2"	23	26	140	130	1/ 10
40017 9	40017-S	2 1/2"	27	30	176	165	1/ 4
40018 6	40018-S	3"	30	33	205	190	1/ 3
40019 3	40019-S	4"	37	45	240	258	1/ 4



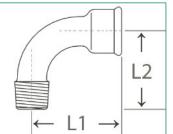


Short bend (1a), ISO D 4

Female thread x male thread, short, 90°

Item-No.:	Item-No.:	Connec.:	Threadlength:		Length:	Packing unit:
zinc plated	black		f	m	L	
40111 4	40111-S	1/2"	13	15	45	10/200
40112 1	40112-S	3/4"	15	18	50	10/120
40113 8	40113-S	1"	17	20	63	10/ 60
40114 5	40114-S	1 1/4"	-	-	76	10/ 35
40115 2	40115-S	1 1/2"	20	21	85	10/ 20
40116 9	40116-S	2"	-	-	102	-/ 18

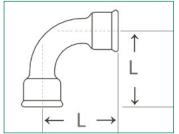






Long bend (2), ISO G 1



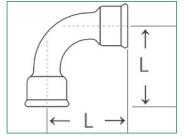


Female	thread x	female	thread.	long.	ano
1 Ciliate	till cau x	ICIIIaic	uncau,	wiis,	90

Item-No.:	Item-No.:	Connec.:	Thread- Length:	Length:	Packing unit:
zinc plated	black			L	
40020 9	40020-S	3/8"	-	-	10/200
400216	40021-S	1/2"	13	55	10/150
400223	40022-S	3/4"	15	69	10/ 80
40023 0	40023-S	1"	17	85	10/ 40
400247	40024-S	1 1/4"	19	105	1/ 25
40025 4	40025-S	1 1/2"	20	116	5/ 15
400261	40026-S	2"	24	140	1/ 8
400278	40027-S	2 1/2"	27	176	1/ 4
40028 5	40028-S	3"	30	205	1/ 2
40029 2	40029-S	4"	-	-	1/ 3

Short bend (2a), ISO D 1



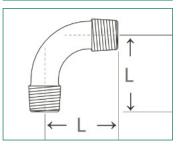


Female thread x female thread, short, 90°

Item-No.:	Item-No.:	Connec.:	Thread- Length:	Length:	Packing unit:
zinc plated	black			L	
40121 3	40121-S	1/2"	13	45	10/180
40122 0	40122-S	3/4"	15	50	10/100
40123 7	40123-S	1"	17	63	10/ 50
40124 4	40124-S	1 1/4"	19	76	10/ 30
40125 1	40125-S	1 1/2"	19	85	1/ 20
40126 8	40126-S	2"	24	102	1/ 14

Long bend (3), ISO G 8





Male thread x male thread, long, 90°

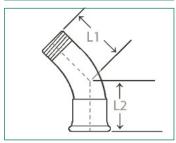
Item-No.:	Item-No.:	Connec.:	Thread- Length:	Length:	Packing unit:
zinc plated	black			L	
400308	40030-S	3/8"	12	42	-/-
400315	40031-S	1/2"	15	48	10/250
40032 2	40032-S	3/4"	18	60	10/120
40033 9	40033-S	1"	20	75	10/ 50
40034 6	40034-S	1 1/4"	22	95	10/ 40
40035 3	40035-S	1 1/2"	22	105	1/ 20
40036 0	40036-S	2"	24	130	-/ 3
400377	40037-S	2 1/2"	29	165	1/ 5
40038 4	40038-S	3"	35	190	1/ 1
40039 1	40039-S	4"	37	245	1/ 1

Long bend 45° (40), ISO G4

Female thread x male thread, long, 45°

Item-No.:	Item-No.:	Conn.:	Threadlength:		Length:		Packing unit:
zinc plated	black		f	m	L1	L2	
40399	40399-S	1/4"					10/300
40400 9	40400-S	3/8"	12	13	25	31	10/300
404016	40401-S	1/2"	13	15	30	36	10/200
40402 3	40402-S	3/4"	15	18	36	43	10/120
40403 0	40403-S	1"	17	20	42	51	10/ 50
404047	40404-S	1 1/4"	19	22	54	64	10/ 40
40405 4	40405-S	1 1/2"	19	22	58	68	10/ 30
40406 1	40406-S	2"	24	27	70	81	10/ 15
404078	40407-S	2 1/2"	27	29	86	99	1/ 10
40408 5	40408-S	3"	30	35	100	113	1/ 5



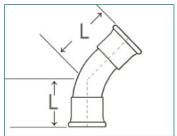


Long bend 45° (41), ISO G1

Female thread x female thread, long, 45°

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Packing unit:
zinc plated	black			L	
40410 8	40410-S	3/8"	12	32	10/300
40411 5	40411-S	1/2"	13	36	10/180
40412 2	40412-S	3/4"	15	43	10/ 110
40413 0	40413-S	1"	17	51	10/ 40
40414 6	40414-S	1 1/4"	19	64	10/ 30
40415 3	40415-S	1 1/2"	20	68	-/ 65
40416 0	40416-S	2"	24	81	-/ 35



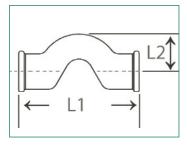


Crossover (85)

Female thread x female thread

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:		Packing unit:
zinc plated	black			L1	L2	
408519	40851-S	1/2"	13	91	28,5	10/100
40852 6	40852-S	3/4"	15	108	41	10/ 60

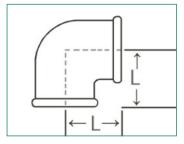






Elbow (90), ISO A 1

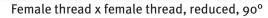




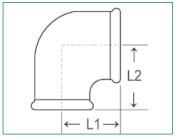
Female thread x female thread, 90°

Item-No.:	Item-No.:	Connection:	Threadlength:	Length:	Packing unit:
zinc plated	black			L	
40899 1	40899-S	1/4"	-	21	10/500
40900 4	40900-S	3/8"	10	25	10/350
409011	40901-S	1/2"	13	28	10/250
409028	40902-S	3/4"	15	33	10/140
409035	40903-S	1"	17	38	10/ 80
40904 2	40904-S	1 1/4"	19	45	10/ 40
40905 9	40905-S	1 1/2"	19	50	10/ 30
40906 6	40906-S	2"	24	58	5/ 20
40917 2	40917-S	2 1/2"	28	69	1/ 10
40918 9	40918-S	3"	28	78	1/ 8
40919 6	40919-S	4"	30	96	1/ 8

Elbow reducing (90 R), ISO A 1





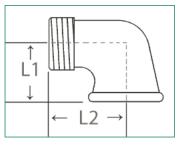


Item-No.:	Item-No.:	Connection:	Threadlength:		Length:		Packing unit:
zinc plated	black	f1 f2	f1	f2	L1	L2	
40911 0	40911-S	1/2" x 3/8"	13	10	26	26	10/260
40908 0	40908-S	3/4" x 1/2"	15	13	30	31	10/160
409073	40907-S	1" X 1/2"	18	15	30	31	10/100
409097	40909-S	1" x 3/4"	17	15	35	36	10/100
40898 4	40898-S	1 ½" x 3/4"	19	24	50	64	10/ 60
409141	40914-S	1 ½" X 1"	19	17	40	42	10/ 50
40915 8	40915-S	1 ½" X 1"	19	17	42	46	10/ 40
40935 6	40935-S	1 ½" X 1 ¼"	17,5	22	44,5	62	10/ 30
40936 3	40936-S	2" X 1 ½"	-	-	-	-	10/ 30

Female thread x male thread, 90°

Elbow (92), ISO A 4





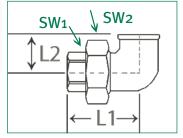
Item-No.:	Item-No.:	Connec.:	Threadlength:		Length:		Packing unit:	
zinc plated	black		IG	AG	L1	L2		
40929 5	40929-S	1/4"	10	13	21	28	10/700	
40920 2	40920-S	3/8"	11	12	25	32	10/350	
40921 9	40921-S	1/2"	13	15	28	37	10/250	
40922 6	40922-S	3/4"	15	18	33	43	10/140	
409233	40923-S	1"	17	20	38	52	10/ 80	
40924 0	40924-S	1 1/4"	19	22	45	60	10/ 40	
409257	40925-S	1 1/2"	19	22	50	65	10/ 30	
40926 4	40926-S	2"	24	28	58	74	6/ 18	
40927 1	40927-S	2 1/2"	27	29	69	88	1/ 30	
409288	40928-S	3"	30	35	78	98	1/ 8	
Female thread x male thread, reduced , 90°								
40933 2	40933-S	1" x 3/4"	17	18	34	45	10/100	

Union elbow (95), ISO UA 1

Female thread x female thread, flat seat, without seal

Item-No.:	Item-No.:	Connec.:	Thread- length:	Length:		Wrench size:		Packing unit:
zinc plated	black			L1	L2	SW1	SW2	
409516	40951-S	1/2"	13	58	28	27	45	10/80
40952 3	40952-S	3/4"	15	62	33	32	50	10/60
40953 0	40953-S	1"	17	72	38	39	55	10/40
409547	40954-S	1 1/4"	19	82	45	47	69	10/20
40955 4	40955-S	1 1/2"	20	87	50	54	75	1/ 25
40956 1	40956-S	2"	25	90	65	67	92	1/ 8



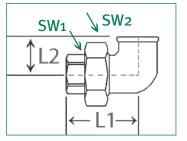


Union elbow (96), ISO UA 11

Female thread x female thread, taper seat

Item-No.:	Item-No.:	Connec.:	Thread- length:	Length:		Wrench size:		Packing unit:
zinc plated	black			L1	L2	SW1	SW2	
40960 0	40960-S	3/8"	-	-	-	-	-	10/120
409615	40961-S	1/2"	13	58	28	27	45	10/80
40962 2	40962-S	3/4"	15	62	33	32	50	10/60
409639	40963-S	1"	17	72	38	38	55	10/40
409646	40964-S	1 1/4"	19	82	45	48	70	10/ 20
409653	40965-S	1 1/2"	19	90	50	55	75	5/ 15
40966 0	40966-S	2"	24	100	58	65	90	1/ 8
409677	40967-S	2 1/2"	28	116	76	87	110	1/ 1
40968 4	40968-S	3"	34	128	68	100	127	1/ 1



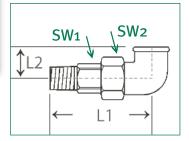


Union elbow (97), ISO UA 2

Female thread x male thread, flat seat, without seal

Item-No.:	Item-No.:	Connec.:	Thread-length:	Length:		Wrench size:		Packing unit:
zinc plated	black			L1	L2	SW1	SW2	
40971 4	40971-S	1/2"	13	76	28	27	45	10/70
40972 1	40972-S	3/4"	15	82	33	32	50	10/50
40973 8	40973-S	1"	17	94	38	38	55	10/30
40974 5	40974-S	1 1/4"	19	107	45	48	70	10/20
40975 2	40975-S	1 1/2"	19	115	50	55	75	5/ 15
40976 9	40976-S	2"	24	128	58	65	90	1/ 6

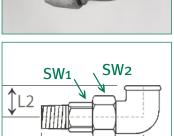






Union elbow (98), ISO UA 12



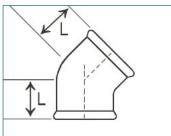


Female thread x male thread, taper seat

Item-No.:	Item-No.:	Connec.:	Thread- length:	Length:		Wrench size:		Packing unit:
zinc plated	black			L1	L2	SW1	SW2	
40980 6	40980-S	3/8"	-	-	-	-	-	10/80
409813	40981-S	1/2"	13	76	28	27	45	10/70
40982 0	40982-S	3/4"	15	82	33	32	50	10/50
409837	40983-S	1"	17	94	38	38	55	10/30
409844	40984-S	1 1/4"	19	107	45	48	69	10/20
409851	40985-S	1 1/2"	19	115	50	55	69	5/ 18
409868	40986-S	2"	24	128	58	65	90	1/ 8
409875	40987-S	2 1/2"						1/ 1
40988 2	40988-S	3"	32	154	65	98	125	1/ 1

Elbow 45° (120), ISO A 1



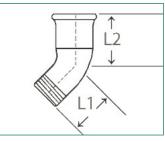


Female thread x female thread, 45°

Item-No.:	Item-No.:	Connec.:	Thread- length:	Length:	Packing unit:
zinc plated	black			L	
412011	41201-S	1/2"	13	22	10/250
41202 8	41202-S	3/4"	15	25	10/150
41203 5	41203-S	1"	17	28	10/ 80
41204 2	41204-S	1 1/4"	19	41	-/ 50
41205 9	41205-S	1 1/2"	20	45	-/ 30
41206 6	41206-S	2"	25	51	5/ 20

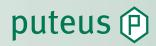
Elbow 45° (121), ISO A 4





Female thread x male thread, 45°

Item-No.:	Item-No.:	Connec.:	Threadlength:		Length:		Packing unit:
zinc plated	black		f	m	L1	L2	
41211 0	41211-S	1/2"	13	15	28	22	10/250
41212 7	41212-S	3/4"	15	18	32	25	10/160
41213 4	41213-S	1"	17	20	37	28	10/100
41214 1	-	1 1/4"	19	19	43	33	5/ 40
41215 8	41215-S	1 1/2"	20	19	46	36	5/ 40
41216 5	41216-S	2"	23	24	55	43	-/ 24

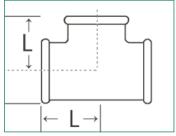


90°, female thread

Tee equal (130), ISO B 1

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Packing unit:
zinc plated	black	female thread		L	
41299 8	41299-S	1/4"	10	21	10/300
41300 1	41300-S	3/8"	10	25	10/250
413018	41301-S	1/2"	13	28	10/150
41302 5	41302-S	3/4"	15	33	10/ 80
41303 2	41303-S	1"	17	38	10/ 50
41304 9	41304-S	1 1/4"	19	45	5/ 30
41305 6	41305-S	1 1/2"	19	50	5/ 20
41306 3	41306-S	2"	24	58	4/ 12
41307 0	41307-S	2 1/2"	27	69	1/ 10
41308 7	41308-S	3"	30	78	1/ 6
41309 4	41309-S	4"	38	96	1/ 6



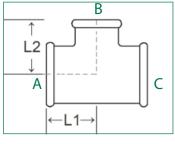


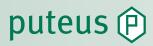
90°, reduced, female thread

Tee reducing (130 R), ISO B 1

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:		Packing unit:
zinc plated	black	AxBxC		L1	L2	
41344 5	41344-S	1/2" x 3/8" x 3/8"	12	26	27	10/120
41310 0	41310-S	1/2" x 3/8" x 1/2"	13	26	26	10/150
41345 2	41345-S	1/2" x 1/2" x 3/8"	21	44	50	10/180
41320 9	-	1/2" X 3/4" X 1/2"	14	30	30	10/120
413117	41311-S	3/4" x 3/8" x 3/4"	15	28	28	10/120
41340 7	41340-S	3/4" x 1/2" x 1/2"	15	27	27	10/100
41312 4	41312-S	3/4" x 1/2" x 3/4"	15	30	31	10/120
41341 4	41341-S	3/4" x 3/4" x 1/2"	15/13	33	33	10/ 90
41343 8	41343-S	3/4" x 1" x 3/4"	16	34	36	10/ 60
41323 0	41323-S	1" X 1/2" X 1"	17	32	34	10/ 60
41313 1	41313-S	1" X 3/4" X 1"	17	35	36	10/ 60
41342 1	41342-S	1" X 1" X 3/4"	16	34	37	10/ 60
41317 9	41317-S	1 1/4" X 1/2" X 1 1/4"	19	34	38	5/ 50
413247	41324-S	1 ½" X 3/4" X 1 ½"	19	36	41	5/ 40
41314 8	41314-S	1 1/4" X 1" X 1 1/4"	19	40	42	5/ 30
41318 6	41318-S	1 ½" X 1/2" X 1 ½"	19	36	42	10/ 30
41319 3	41319-S	1 ½" X 3/4" X 1 ½"	19	38	44	-/ 30
41316 2	41316-S	1 ½" X 1" X 1 ½"	19	42	46	5/ 30
41315 5	41315-S	1 ½" X 1 ¼" X 1 ½"	19	46	48	10/ 20
41327 8	41327-S	2" X 1/2" X 2"	24	38	48	-/ 20
41325 4	41325-S	2" x 3/4" x 2"	19	34	38	10/ 20
41326 1	41326-S	2" X 1" X 2"	24	44	52	5/ 20
41328 5	41328-S	2" X 1 ½" X 2"	24	48	54	-/ 20
41329 2	41329-S	2" X 1 ½" X 2"	24	52	55	1/ 15
41330 8	41330-S	3" x 2" x 3"	30	64	73	1/ 6



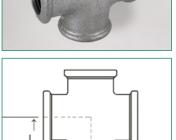




Cross fitting 90° (180), ISO C 1

4 x female thread





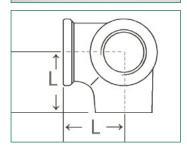
Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Packing unit:
zinc plated	black			L	
41790 6	41790-S	1/4"	12	21	10/100
41800 6	41800-S	3/8"	13	25	10/150
41801 3	41801-S	1/2"	13	28	10/100
41802 0	41802-S	3/4"	15	33	10/ 60
418037	41803-S	1"	17	38	10/ 40
41804 4	41804-S	1 1/4"	19	45	5/ 20
41805 1	41805-S	1 1/2"	19	50	15/ 20
418068	41806-S	2"	24	58	10/ 10
41812 9	41812-S	3/4" x 1/2"	13	23	10/ 80
41813 6	41813-S	1" X 1/2"	14	32	10/ 40

Side outlet elbow (221), ISO Za 1



3 x female thread

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Packing unit:
zinc plated	black			L	
42211 9	42211-S	1/2"	13	28	10/140
42212 6	42212-S	3/4"	15	33	10/ 80
42213 3	-	1"	18	35	10/ 60

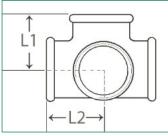


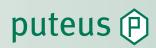
Tee with side outlet (223)



90°, female threaded, equal

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Packing unit:
zinc plated	black		L1	L2	
422317	-	1/2"	-	-	10/100
42232 4	-	3/4"	-	-	10/ 60
42233 1	-	1"	-	-	10/ 50





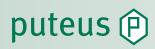
Reducing socket (240), ISO M 2

Female thread x female thread

Item-No.:	Item-No.:	Connection:	Threadle	ngth:	Length:	Packing unit:
zinc plated	black	f1 f2	f1	f2	L	
42399 4	42399-S	3/8" x 1/4"	10	10	30	10/400
424007	42400-S	1/2" X 1/4"	13	10	36	10/300
424014	42401-S	1/2" x 3/8"	12	11	36	10/350
423987	42398-S	3/4" x 3/8"	15	10	39	10/250
424021	42402-S	3/4" x 1/2"	15	13	39	10/220
42393 2	42393-S	1" X 1/2"	17	13	45	10/140
424038	42403-S	1" X 3/4"	17	15	45	10/140
42397 0	42397-S	1 ½" X 1/2"	19	13	50	10/ 80
42394 9	42394-S	1 ½" X 3/4"	19	15	50	10/ 80
424045	42404-S	1 1/4" X 1"	19	17	50	10/ 80
42396 3	42396-S	1 ½" X 3/4"	19	15	55	10/ 60
42395 6	42395-S	1 ½" X 1"	19	17	55	10/ 60
42405 2	42405-S	1 ½" X 1 ¼"	19	19	55	10/ 60
42392 5	42392-S	2" X 1"	24	17	65	-/ 35
423918	42391-S	2" X 1 1/4"	24	19	65	10/ 30
42406 9	42406-S	2" X 1 ½"	22	21	65	10/ 30
42390 1	42390-S	2 ½" X 2"	27	24	74	1/ 24

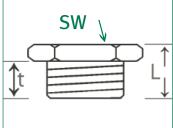






Bushing (241), ISO N 4





Male thread x female thread

Item-No.:	Item-No.:	Connection:	Threadle	ngth:	Length:	Wrench size:	Packing unit:
zinc plat.	black	m f	m (t)	f	L	SW	
42410 6	42410-S	3/8" x 1/4"	14	10	20	19	10/900
42430 4	42430-S	1/2" X 1/4"	17	12	25	23	10/800
42411 3	42411-S	1/2" x 3/8"	16	13	24	22	10/500
42433 5	42433-S	3/4" x 1/4"	16	10	25	31	10/300
42422 9	42422-S	3/4" x 3/8"	17	13	26	30	10/300
42412 0	42412-S	3/4" x 1/2"	17	13	26	30	10/350
424328	42432-S	1" x 3/8"	19	12	30	39	10/200
424236	42423-S	1" X 1/2"	19	13	29	36	10/200
424137	42413-S	1" x 3/4"	19	15	29	36	10/240
42434 2	42434-S	1 ½" X 1/2"	22	13	31	46	10/100
424243	42424-S	1 ½" X 3/4"	20	15	31	46	5/120
42414 4	42414-S	1 1/4" X 1"	21,5	17	31	46	5/ 150
42435 9	42435-S	1 ½" X 1/2"	23	13	33	52	10/120
42436 6	42436-S	1 ½" X 3/4"	21	15	31	55	5/ 80
42425 0	42425-S	1 ½" X 1"	22	16	33	51	5/ 90
42415 1	42415-S	1 ½" X 1 ¼"	21,5	19	31	50	10/100
424373	42437-S	2" X 1/2"	25	14	47	68	10/ 50
42438 0	42438-S	2" X 1"	24	16	36	67	5/ 50
424175	42417-S	2" X 1 1/4"	24	19	35	65	5/ 55
424168	42416-S	2" X 1 ½"	26	19	35	65	10/ 60
424397	42439-S	2 ½" X 1 ½"	29	20	55	54	10/ 40
424403	42440-S	2 ½" X 1 ½"	28	20	42	81	1/ 40
424410	42441-S	2 ½" X 2"	27	24	41	81	10/ 40
424427	42442-S	3" X 2"	30	26	46	96	1/ 20
42446 5	42446-S	3" X 2 ½"	30	26	43	96	1/ 30
42447 2	42447-S	4" x 3"	33	26	51	122	1/ 18

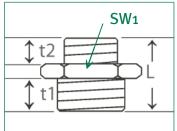


Reducing nipple (245), ISO N 8

Male thread x male thread, with hexagon

Item-No.:	Item-No.:	Connection:	Threadle	ngth:	Length:	Wrench size:	Packing unit:
zinc plat.	black	m x m	t1	t2	L	SW	
42457 1	42457-S	3/8" x 1/4"	11	10	38	19	10/500
42450 2	42450-S	1/2" X 1/4"	16	14	43	23	10/360
424519	42451-S	1/2" x 3/8"	13	11	44	26	10/360
424588	42458-S	3/4" x 3/8"	20	14	48	34	10/190
42452 6	42452-S	3/4" x 1/2"	13	13	47	30	10/230
42443 4	42443-S	1" X 1/2"	17	13	53	36	10/150
424533	42453-S	1" x 3/4"	17	13	53	36	10/130
42459 5	42459-S	1 ½" X 1/2"	24	18	58	46	10/ 90
42444 1	42444-S	1 ½" x 3/4"	18	13	57	46	10/ 80
42454 0	42454-S	1 ½" X 1"	18	17	57	48	10/ 70
42460 1	42460-S	1 ½" X 3/4"	26	20	60	51	10/ 90
424458	42445-S	1 ½" X 1"	21	17	59	56	10/ 60
424557	42455-S	1 ½" X 1 ¼"	21	18	59	56	10/ 60
42448 9	-	2" x 3/4"	-	-	-	-	-/-
424618	42461-S	2" X 1 1/4"	24	18	68	65	10/ 40
42456 4	42456-S	2" X 1 ½"	24	21	68	65	10/ 40
42470 0	-	2 ½" X 2"	27	24	80	-	-/ 25



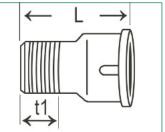


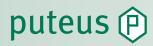
Reducing socket (246), ISO M 4

Female thread x male thread

Item-No.:	Item-No.:	Connection.:	Threadle	ngth:	Length:	Packing unit:
zinc plated	black	f x m	ft2	m t1	L	
424717	42471-S	3/8" x 1/4"	10	14	35	10/700
42472 4	42472-S	1/2" X 1/4"	13	12	43	10/350
42464 9	42464-S	1/2" x 3/8"	13	10	43	10/350
42473 1	42473-S	3/4" x 3/8"	15	12	48	10/210
424625	42462-S	3/4" x 1/2"	15	13	48	10/210
42465 6	42465-S	1" X 1/2"	17	13	55	10/140
42463 2	42463-S	1" x 3/4"	17	15	55	10/120
42474 8	42474-S	1 ½" x 3/4"	19	17	60	10/100
42466 3	42466-S	1 ½" X 1"	19	17	60	10/ 80
42467 0	42467-S	1 ½" X 1"	19	17	63	10/ 60
424687	42468-S	1 ½" X 1 ¼"	21	19	63	10/ 60
42469 4	42469-S	2" X 1 ½"	23	19	70	10/ 50
42477 9	-	2 ½" X 2"	30	27	74	5/ 20

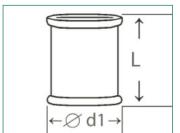






Socket (270), ISO M 2 Female thread x female thread



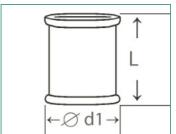


Item-No.:	Item-No.:	Connection:	Thread- length:	Length:		Packing unit:
zinc plated	black			L	Ø d1	
42699 5	42699-S	1/4"	10	27	22	10/600
42700 8	42700-S	3/8"	10	30	25	10/400
42701 5	42701-S	1/2"	13	36	30	10/340
42702 2	42702-S	3/4"	15	39	36	10/220
42703 9	42703-S	1"	17	45	44	10/120
42704 6	42704-S	1 1/4"	19	50	53	5/ 60
42705 3	42705-S	1 1/2"	19	55	60	5/ 50
42706 0	42706-S	2"	20	65	74	5/ 25
427077	42707-S	2 1/2"	27	74	91	-/ 24
42708 4	42708-S	3"	30	80	105	-/ 15
42709 1	42709-S	4"	36	94	135	-/ 15

Socket (271), ISO M 2 R-L





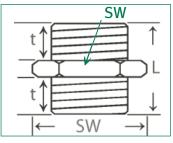


Female thread x female thread, with right and left hand thread

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:		Packing unit:
zinc plated	black			L	Ø d1	
42711 4	-	1/2"	13	36	30	10/340
42712 1	-	3/4"	15	39	36	10/220
42713 8	-	1"	17	45	44	10/120

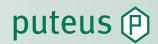
Nipple (280), ISO N 8





Male thread x male thread, with hexagon

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Wrench size:	Packing unit:
zinc plated	black			L	SW	
42791 6	42791-S	1/4"	10	36	19	10/600
42800 5	42800-S	3/8"	11	38	22	10/500
42801 2	42801-S	1/2"	15	44	27	10/350
42802 9	42802-S	3/4"	18	47	32	10/220
42803 6	42803-S	1"	20	53	41	10/130
428043	42804-S	1 1/4"	22	57	50	10/ 70
42805 0	42805-S	1 1/2"	21	59	55	5/ 50
428067	42806-S	2"	20	68	63	5/ 25
42807 4	42807-S	2 1/2"	27	75	85	10/ 20
428081	42808-S	3"	30	83	100	1/ 22
428098	42809-S	4"	36	95	130	1/ 20

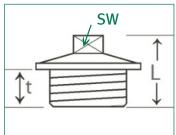


with border

Plug, beaded (290), ISO T 9

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Wrench size:	Packing unit:
zinc plated	black	male	t	L	SW	
42890 6	42890-S	1/4"	10	22	8	10/1000
42900 2	42900-S	3/8"	11,5	24	10	10/ 700
429019	42901-S	1/2"	13	26	11	10/ 350
42902 6	42902-S	3/4"	14,5	32	17	10/ 250
429033	42903-S	1"	17	36	19	10/ 170
42904 0	42904-S	1 1/4"	21	39	22	10/ 100
429057	42905-S	1 1/2"	23	41	22	10/ 80
42906 4	42906-S	2"	26	48	27	10/ 50
429071	42907-S	2 1/2"	30	54	32	1/ 34
429088	42908-S	3"	34	60	36	1/ 24
42909 5	42909-S	4"	40	70	41	1/ 12



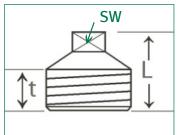


Plug, plain (291), ISO T 8

without border

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Wrench size:	Packing unit:
zinc plated	black	male	t	L	SW	
42917 0	42917-S	1/8"	-	-	-	10/5400
42918 7	42918-S	1/4"	-	-	-	10/3600
42910 1	42910-S	3/8"	15	24	10	10/1000
42911 8	42911-S	1/2"	16	26	11	10/ 800
42912 5	42912-S	3/4"	21	32	17	10/ 400
42913 2	42913-S	1"	25	36	19	10/ 250
42914 9	42914-S	1 1/4"	28	39	22	10/ 160
42915 6	42915-S	1 1/2"	30	41	22	10/ 130
42916 3	42916-S	2"	34	48	27	10/ 60



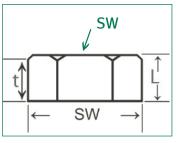


not beaded, \leq 1" hexagonal, \geq 1" octagonal

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Wrench size:	Packing unit:
zinc plated	black	female	t	L	SW	
43020 6	43020-S	1/4"	-	-	-	10/800
43000 8	43000-S	3/8"	11	17	22	10/660
43001 5	43001-S	1/2"	13	19	26	10/400
43002 2	43002-S	3/4"	15	22	32	10/250
43003 9	43003-S	1"	17	24	39	10/130
43004 6	43004-S	1 1/4"	20	27	48	10/100
43005 3	43005-S	1 1/2"	20	27	54	10/ 90
43006 0	43006-S	2"	24	32	66	10/ 50
430077	43007-S	2 1/2"	26	35	84	5/ 40
43008 4	43008-S	3"	28	38	96	1/ 28
43009 1	43009-S	4"	35	46	124	1/ 12

Cap (300), ISO T 1

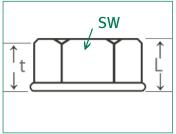






Cap (301)





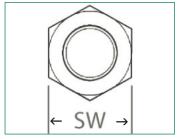
beaded

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Wrench size:	Packing unit:
zinc plated	black	female	t	L	SW	
430213	43021-S	1/4"	-	-	-	10/1800
43010 7	43010-S	3/8"	11	17	22	10/ 800
43011 4	43011-S	1/2"	13	19	26	10/ 800
43012 1	43012-S	3/4"	15	22	32	10/ 400
43013 8	43013-S	1"	17	24	39	10/ 250
43014 5	43014-S	1 1/4"	20	27	48	10/ 100
43015 2	43015-S	1 1/2"	20	27	54	10/ 90
43016 9	43016-S	2"	24	32	66	10/ 70
43017 6	43017-S	2 1/2"	26	35	84	5/ 40
43018 3	43018-S	3"	28	38	96	1/ 1
43019 0	43019-S	4"	-	-	-	1/ 1

Lock nut (310), ISO P 4

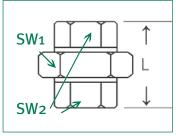


Item-No.:	Item-No.:	Connection:	Thread- length:	Length:	Wrench size:	Packing unit:
zinc plated	black	female	t	L	SW	
43101 2	43101-S	1/2"	8	8	32	10/700
43102 9	43102-S	3/4"	9	9	36	10/300
43103 6	-	1"	10	10	45	10/350
43104 3	43104-S	1 1/4"	-	-	-	10/250



Union (330), ISO U 1





Female thread x female thread, flat seat, without seal

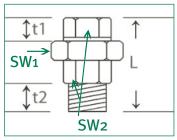
Item-No.:	Item-No.:	Item-No.:	Conn.:	Thread- length:	Length:	Wrenchsize:		Packing unit:
zinc plat.	zinc plat.+seal	black		t	L	SW ₁	SW2	
433016	43301-D	43301-S	1/2"	14	48	42	26	10/80
43302 3	43302-D	43302-S	3/4"	16	52	50	32	10/70
43303 0	43303-D	43303-S	1"	20	58	55	38	10/60
433047	43304-D	43304-S	1 1/4"	18	65	69	49	5/ 35
43305 4	43305-D	43305-S	1 1/2"	70	70	72	53	5/ 25
43306 1	43306-D	43306-S	2"	78	78	90	68	5/ 20
433078	43307-D	43307-S	2 1/2"	85	85	110	85	1/ 12
43308 5	43308-D	43308-S	3"	95	95	128	98	1/ 7

Union (331), ISO U 2

Female thread x male thread, flat seat, without seal

Item-No.:	Item-No.:	Item-No.:	Con.:	Thread length:		Length Wrench-size:		Packing unit:	
zinc pla.	zinc plat.+seal	black		F t1	M t2	L	SW1	SW2	
43311 5	43311-D	43311-S	1/2"	15	17	66	41	24	10/90
43312 2	43312-D	43312-S	3/4"	15	20	72	50	32	10/60
43313 9	43313-D	43313-S	1"	16	21	80	55	39	10/50
43314 6	43314-D	43314-S	1 1/4"	19	26	90	69	47	10/30
43315 3	43315-D	43315-S	1 1/2"	24	25	95	75	55	4/20
43316 0	43316-D	43316-S	2"	25	29	106	90	65	1/ 10



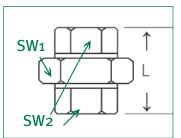


Female thread x female thread, taper seat

Item-No.:	Item-No.:	Conn.:	Thread- length:	Length:	Wrenchsize:		Packing unit:
zinc plat.	black			L	SW1	SW2	
434006	43400-S	3/8"	12	45	38	22	10/150
434013	43401-S	1/2"	13	48	45	27	10/ 80
43402 0	43402-S	3/4"	15/20	52	50	32	10/ 70
434037	43403-S	1"	17/20	58	55	38	10/60
43404 4	43404-S	1 1/4"	17/20	65	70	47	10/ 40
43405 1	43405-S	1 1/2"	19/20	70	74	54	5/ 25
434068	43406-S	2"	24/20	78	90	66	5/ 15
434075	43407-S	2 1/2"	27/27	85	110		1/ 8
43408 2	43408-S	3"	30/30	95	130	96	1/ 7
43409 9	43409-S	4"	45/45	109	153	126	1/ 1

Union (340), ISO U 11



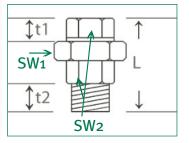


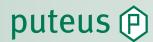
Union nut (341), ISO U 12

Female thread x male thread, taper seat

Item-No.:	Item-No.:	Conn.:	Threadlength:		Length:	Wrench size:		Packing unit:
zinc plat.	black		F t1	M t2	L	SW1	SW2	
43410 5	43410-S	3/8"	15,5	16	58	36	22	10/150
43411 2	43411-S	1/2"	14,5	17	66	45	27	10/ 80
43412 9	43412-S	3/4"	15,5	20	72	50	32	10/ 70
43413 6	43413-S	1"	18	22	80	55	39	10/ 40
43414 3	43414-S	1 1/4"	20,5	26	90	69	47	5/ 25
43415 0	43415-S	1 1/2"	25	28	95	75	55	10/ 20
43416 7	43416-S	2"	26	27	106	90	65	5/ 10
43417 4	43417-S	2 1/2"	27	39	118	90	85	-/ 9
43418 1	43418-S	3"	-	-	-	-	-	-/ 6

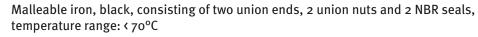




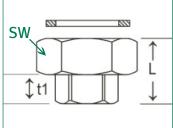


Union for pumps made of malleable iron





Item-No.:	Connection:	Thread- length:	Length:	Wrench- size:	Pack. unit:
black			L	SW	
43502-2	3/4" Connection, 1 1/4" union nut	18	35	50	1/75
43503-2	1" Connection, 1 $\frac{1}{2}$ " union nut	20	39	55	1/40
43504-2	1 ½" Connection, 2" union nut	22,9	47,6	70	1/35

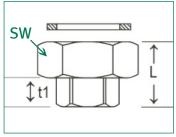


Union for pumps made of brass



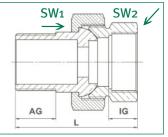
Consisting of: 2 union nuts, 2 union ends and 2 seals, PN 10, temperature range: - 10°C to + 110°C

Item-No.:	Connection:	Thread- length:	Length:	Wrench- size: SW	Pack. unit:
34693 4	1" Connection, 1 ½" union nut	20	38	52	-/25



Union made of brass with nut





Plain brass, 3-pieces, with nut and **metal sealing**, male thread x female thread

Item-No.:	Connection:	Thread- length:	Length:	Wrench- size:	Pack. unit:
	M/F	M/F	L	SW1/SW2	
33700 0	G ₃ /8" connection, G ₃ /8", nut	10/8	41	25/20	20/200
337017	G _{1/2} " connection, G _{1/2} ", nut	12/12	49	30/25	15/150
33702 4	G ₃ / ₄ " connection, G ₃ / ₄ ", nut	13/11	54	38/30	10/100
33703 1	G1" connection, G1", nut	15/12	60	47/37	8/ 48
337048	G1 1/4" connection, G1 1/4", nut	15/16	71	53/48	8/ 32

The items of the brass union nuts are not tested for compatibility with other market models.

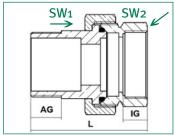
Union made of brass with nut

Plain brass, 3-pieces, with nut and **O-ring sealing**, male thread x female thread

Item- No.:	Connection: M/F	Thread- length: M/F	Length:	Wrench- size: SW1/SW2	Pack. unit:
33723 9	G1" connection, G1", nut	15/12	60	47/37	8/48
33725 3	$G_1 \frac{1}{2}$ " connection, $G_1 \frac{1}{2}$ ", nut	20/15	75	66/54	-/-



The items of the brass union nuts are not tested for compatibility with other market models.



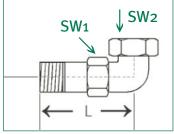
Union made of brass with nut, angle form

Plain brass, 3-pieces, angle form, with nut, metal sealing, male thread x female thread

Item-No.:	Connection: M/F	Thread- length: M/F	Length:	Wrench- size: SW1/SW2	Pack. unit:
33705 5	G ₃ /8" connection, G ₃ /8", nut	10/9	46	25/21	15/150
33706 2	G1/2" connection, G1/2", nut	12/10	53	30/25	10/100
33707 9	G3/4" connection, G3/4", nut	12/11,5	62,5	37/31	10/ 50
33708 6	G1" connection, G1", nut	12/11,5	70	46/37	8/ 32
33709 3	G1 1/4" connection, G1 1/4", nut	16/18	83,5	53/48	1/30



The items of the brass union nuts are not tested for compatibility with other market models.



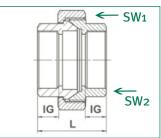
Union made of brass with nut

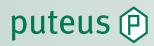
Plain brass, with nut, metal sealing, female thread x female thread

Item-No.:	Connection: F/F	Thread- length: F/F	Length:	Wrench- size: SW1/SW2	Pack. unit:
33711 6	G1/2" connection, G1/2" nut	12/12	38,4	37,5/25	-/-
33712 3	G ₃ /4" connection, G ₃ /4" nut	11/11	36,8	47/30	-/-
33713 0	G1" connection, G1" nut	12/12	38,8	52/37	-/-



The items of the brass union nuts are not tested for compatibility with other market models.





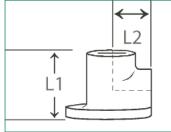
Bracket elbow (471)





Female thread x female thread

Item-No.:	Item-No.:	Connection:	Thread- length:	Length:		Packing unit:
zinc plated	black			L	L2	
44711 2	44711-S	1/2"	13	46	26	10/80
44712 9	44712-S	3/4"	15	52	33	10/50
44713 6	44713-S	1"	20	61	40	10/50

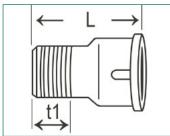


Extension socket (529a)



Socket with female thread and male thread

Item-No.:	Item-No.:	Connection:	Thread- length:				Length:	Packing unit:
zinc plated	black		t1	t2	L			
452918	-	1/2"	13	-	43	10/300		
45292 5	-	3/4"	15	-	48	10/180		



Sealing tape



12 m x 12 mm x 0,075 mm, material PTFE

Item-No.:	Packing unit:
29010 7	50/1000

Hemp yarn-Mazzoni



approx. 200 g

Wrapping:	Item-No.:	Packing unit:
loose	29016 9	10/250
packed for self-service	29015 2	10/100



Spare gaskets, according to DIN EN 10242

Item-No.:	Connection:		Packing unit:
49011 8	1/2"	30 X 21 X 2 MM	10/100
490019	1/2"	34 X 24 X 2 mm	10/100
49012 5		31,5 x 26 x 2 mm	10/100
49002 6	3/4"	38 x 27 x 2 mm	10/100
49013 2		29 X 22 X 2 MM	10/100
490033	1"	44 x 32 x 2 mm	10/100
49004 0	1 1/4"	55 X 42 X 2 mm	10/100
490057	1 1/2"	62 x 46 x 2 mm	10/100
49006 4	2"	78 x 60 x 2 mm	10/100



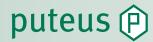
For flat-sealing screw connections (Nr. 330/331/95/97), except for Item-No. 49011, 49012 and 49013. Synthetic fibers bonded with NBR. Suitable for oils, water, steam, gases, salt solutions, fuels, alcohols, weak organic and inorganic acids, hydrocarbons, lubricants and refrigerants. DIN-DVGW/SVGW-certificates. BAM-, HTB- and KTW- tested.

Steel pipes



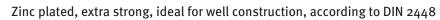
According to DIN EN 10255 Class M (DIN 2440), zinc plated/black, both sides male threaded, without socket

Length:	Item-No.:	Item-No.:	Item-No.:	Item-No.:	Item-No.:	Item-No.:	Item-No.:	Item-No.:	Item-No.:	
	3/8"	1/2"	1/2"	3/4"	3/4"	1"	1 1/4"	11/2"	2"	unit:
	zinc plat.	zinc plat.	black	zinc plat.	black	zinc plat.	zinc plat.	zinc plat.	zinc plat.	
350 mm	_	201011	254017	20012 0	25402 4	-	-	-	_	10/-
400 mm	20120 2	20111 0	25411 6	20112 7	25412 3	20113 4	20114 1	-	-	10/-
450 mm	_	20121 9	254215	20122 6	25422 2	-	-	-	-	10/-
500 mm	202001	202018	256011	202025	256028	20203 2	202049	-	-	10/-
550 mm	-	20131 8	254314	20132 5	25432 1	-	-	-	-	10/-
600 mm	20210 0	202117	25611 0	20212 4	25612 7	20213 1	202148	_	_	10/-
650 mm	-	201417	254413	20142 4	25442 0	-	-	-	-	10/-
700 mm	-	20151 6	25451 2	20152 3	25452 9	20153 0	-	-	_	10/-
750 mm	-	201615	254611	20162 2	254628	-	-	-	-	10/-
800 mm	20220 9	202216	256219	20222 3	25622 6	20223 0	202247	-	_	10/-
850 mm	-	20171 4	25471 0	20172 1	25472 7	-	-	-	-	10/-
900 mm	-	20181 3	254819	20182 0	25482 6	201837	-	_	_	10/-
950 mm	-	20191 2	254918	20192 9	25492 5	-	-	-	-	10/-
1000 mm	203008	203015	256318	20302 2	25632 5	20303 9	20304 6	203053	20306 0	10/-
1050 mm	-	20311 4	25511 3	20312 1	25512 0	-	-	-	-	10/-
1100 mm	-	203213	25521 2	20322 0	25522 9	_	-	_	_	10/-
1150 mm	-	20331 2	255311	20332 9	25532 8	-	-	-	-	10/-
1200 mm	_	203411	25541 0	203428	25542 7	-	-	-	-	10/-
1500 mm	20400 5	204012	-	20402 9	-	20403 6	204043	20405 0	204067	10/-
2000 mm	20500 2	205019	-	20502 6	-	205033	20504 0	205057	20506 4	10/-

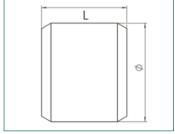


Steel socket, both sides chamfered

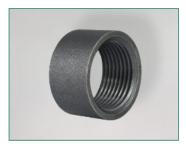




Item-No.:	Connec.:	Thread- length:	Length:	Ø	Packing unit:
22024 1	1 1/4"	47	47	50	10/100

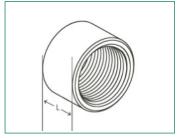


Steel socket (half length)

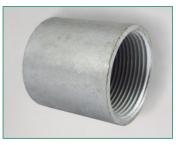


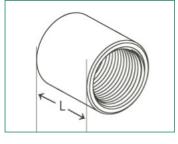
According to EN 10241 (DIN 2986), one-sided chamfered

Item-No.: zinc plated	Item-No.: black	Conn.:	Nominal diameter	Thread- length:	Length:	Ø	Packing unit:
-	21971 9	1/2"		15	15	26,6	-/1000
-	21972 6	3/4"		17	17	31,8	-/ 600
-	21973 3	1"		20	20	39,5	-/ 320
-	21975 7	1 1/2"		22	22	54,5	-/ 160



Steel socket (16)





According to EN 10241 (DIN 2986)

Item-No.:	Item-No.:	Conn.:	Nominal diameter	Thread- length:	Length:	Ø	Packing unit:
zinc plated	black						
-	21989 4	1/4"	8	25	25	18,5	-/700
22000 5	21990 0	3/8"	10	26	26	21,3	-/600
220012	219917	1/2"	15	34	34	26,6	-/500
22002 9	21992 4	3/4"	20	36	36	31,8	-/300
220036	21993 1	1"	25	43	43	39,5	-/160
22004 3	219948	1 1/4"	32	48	48	48,3	-/ 120
22005 0	21995 5	1 1/2"	40	48	48	54,5	-/ 80
220067	21996 2	2"	50	56	56	66,2	-/ 50
22007 4	21997 9	2 1/2"	65	65	65	82	-/ 33
22008 1	21998 6	3"	80	71	71	95	-/ 24
22009 8	21999 3	4"	100	83	83	121,4	-/ 12



Long sleeve socket

Steel, black, both sides threaded according to ISO 7

Item-No.:	Connection:	Length: L	Packing unit:
21932 0	1/2"	60 mm	-/280
21934 4	1/2"	80 mm	-/200
21936 8	1/2"	100 mm	-/160

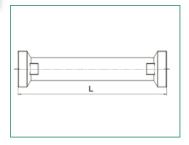


Connecting tube

Plain brass, CW 617 N, both sides male threaded

Item-No.:	Connection:	Length: L	Packing unit:
S-2592-81	G3/4"	81 mm	-/200
S-2593-111	G3/4"	111 mm	-/150
S-2593-131	G3/4"	131 mm	-/ 150
S-2593-131-1"	G1"	131 mm	-/ 150



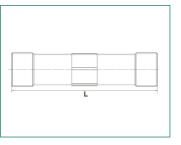


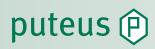
Connecting tube

Polyamide, black, both sides male threaded

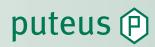
Item-No.:	Connection:	Length: L	Packing unit:
S-3082-2	G3/4"	110 mm PA6	-/80
S-3084-2	G1"	130 mm PA6	-/80







Con.: Length mm	1/4" Item-No.	Pack. unit: bag/ carton	3/8" Item-No.	Pack. unit: bag/ carton	1/2" Item-No.	Pack. unit: bag/ carton	3/4" Item-No.	Pack. unit: bag/ carton	1" Item-No.	Pack. unit: bag/ carton	1 1/4" Item-No.	Pack. unit: bag/ carton
30	-	-	24000 3	-/-	240010	10/400	240027	-/-	240034		-	-
40	24049 2	10/640	24040 9	10/500	24011 9	10/300	24012 6	10/200	24013 3	10/150	24014 0	10/120
50	-	-	240508	-/-	240218	10/240	24022 5	10/160	24023 2	-/-	24024 9	10/ 90
60	24069 0	-/-	240607	10/280	240317	10/210	24032 4	10/140	240638	10/120	240348	10/ 80
70	-	-	-	-	24111 6	-/-	240928	-/-	24173 4	-/-	24074 4	-/-
80	240898	10/400	240805	10/380	240416	10/160	240423	10/110	240836	10/ 80	240843	10/ 80
90	-	-	24070 6	-/-	240911	-/-	24112 3	-/-	24103 1	-/-	24094 2	10/ 60
100	24109 3	10/500	24100 0	10/500	240515	10/130	24052 2	10/ 90	240539	10/ 60	24054 6	10/ 50
110	-	-	24110 9	-/-	24121 5	-/-	24122 2	-/-	24113 0	-/-	24114 7	-/-
120	24129 1	-/-	24120 8	-/-	24131 4	10/110	24132 1	10/ 70	24123 9	10/80	24124 6	10/ 50
140	-	-	24140 6	-/-	24151 2	-/-	24152 9	-/-	241437	-/-	24174 1	-/-
150	24159 8	-/-	24150 5	-/-	240614	10/ 90	240621	10/120	24153 6	-/ 78	24154 3	10/ 45
160	-	-	-	-	24161 1	-/-	241628	-/-	24163 5	-/-	24164 2	-/-
180	-	-	-	-	240812	10/ 70	24142 0	10/100	241833	-/ 72	24184 0	-/ 10
190	-	-	-	-	-	-	-	-	24193 2	-/ 72	24194 9	10/ 70
200	24209 0	-/-	242007	10/ 90	240713	10/ 90	24072 0	10/ 40	240737	10/30	242045	10/ 20
220	-	-	-	-	-	-	-	-	242236	10/120	-	-
250	-	-	-	-	24141 3	10/120	240829	10/ 70	242533	-/ 45	24144 4	-/ 10
300	20109 7	-/-	20100 4	-/-	20110 3	10/100	20102 8	10/60	20103 5	-/ 40	20104 2	-/ 20
Con.: Length mm	1/4" Item-No.	Pack. unit: bag/ carton	3/8" Item-No.	Pack. unit: bag/ carton	1/2" Item-No.	Pack. unit: bag/ carton	3/4" Item-No.	Pack. unit: bag/ carton	1" Item-No.	Pack. unit: bag/ carton	11/4" Item-No.	Pack. unit: bag/ carton
		unit: bag/		unit: bag/		unit: bag/		unit:		unit: bag/		unit: bag/
Length mm		unit: bag/	Item-No.	unit: bag/ carton	Item-No.	unit: bag/ carton	Item-No.	unit: bag/ carton	Item-No.	unit: bag/ carton -/-	Item-No.	unit: bag/ carton
Length mm	Item-No.	unit: bag/ carton	Item-No. 25000 2	unit: bag/ carton	Item-No.	unit: bag/ carton -/-	Item-No. 25002 6	unit: bag/ carton -/-	Item-No.	unit: bag/ carton -/-	Item-No.	unit: bag/ carton
Length mm 30 40	Item-No.	unit: bag/ carton	Item-No. 25000 2 25040 8	unit: bag/ carton -/-	Item-No. 25001 9 25011 8	unit: bag/ carton -/- 10/500	Item-No. 25002 6 25012 5 25022 4	unit: bag/ carton -/- 10/380 -/-	Item-No. 25003 3 25013 2	unit: bag/ carton -/- 10/180	Item-No 25014 9 25024 8	unit: bag/ carton - 10/120
Length mm 30 40 50	Item-No 25049 1	unit: bag/ carton - 10/640	Item-No. 25000 2 25040 8 25050 7	unit: bag/ carton -/- -/-	Item-No. 25001 9 25011 8 25021 7	unit: bag/ carton -/- 10/500 -/-	Item-No. 25002 6 25012 5 25022 4	unit: bag/ carton -/- 10/380 -/-	Item-No. 25003 3 25013 2 25023 1	unit: bag/ carton -/- 10/180	Item-No 25014 9 25024 8	unit: bag/ carton - 10/120
Length mm 30 40 50 60	Item-No 25049 1 - 25069 9	unit: bag/ carton - 10/640 - -/-	Item-No. 25000 2 25040 8 25050 7	unit: bag/ carton -/- -/- -/-	Item-No. 25001 9 25011 8 25021 7 25031 6	unit: bag/ carton -/- 10/500 -/- 10/360	Item-No. 25002 6 25012 5 25022 4 25032 3 25092 7	unit: bag/ carton -/- 10/380 -/- 10/200	Item-No. 25003 3 25013 2 25023 1 25063 7 25173 3	unit: bag/ carton -/- 10/180 -/- 10/120	ltem-No 25014 9 25024 8 25034 7	unit: bag/ carton - 10/120 -/- -/ 10
Length mm 30 40 50 60 70	Item-No 25049 1 - 25069 9	unit: bag/ carton - 10/640 - -/-	Item-No. 25000 2 25040 8 25050 7 25060 6	unit: bag/ carton -/- -/- -/-	Item-No. 25001 9 25011 8 25021 7 25031 6 25111 2	unit: bag/ carton -/- 10/500 -/- 10/360	Item-No. 25002 6 25012 5 25022 4 25032 3 25092 7	unit: bag/ carton -/- 10/380 -/- 10/200	Item-No. 25003 3 25013 2 25023 1 25063 7 25173 3	unit: bag/ carton -/- 10/180 -/- 10/120	ltem-No 25014 9 25024 8 25034 7 25074 3	unit: bag/ carton - 10/120 -/- -/ 10
Length mm 30 40 50 60 70 80	Item-No 25049 1 - 25069 9 - 25089 7	unit: bag/ carton - 10/640 - -/-	Item-No. 25000 2 25040 8 25050 7 25060 6 - 25080 4 25070 5	unit: bag/ carton -/- -/- -/- -/-	Item-No. 25001 9 25011 8 25021 7 25031 6 25111 2 25041 5	unit: bag/ carton -/- 10/500 -/- 10/360 -/- 10/250	Item-No. 25002 6 25012 5 25022 4 25032 3 25092 7 25042 2	unit: bag/ carton -/- 10/380 -/- 10/200 /-	Item-No. 25003 3 25013 2 25023 1 25063 7 25173 3 25083 5 25103 0	unit: bag/carton -/- 10/180 -/- 10/120 -/- 10/120 -/-	1tem-No 25014 9 25024 8 25034 7 25074 3 25084 2	unit: bag/ carton - 10/120 -/- -/ 10 -/- 10/ 80 -/-
Length mm 30 40 50 60 70 80 90	Item-No 25049 1 - 25069 9 - 25089 7	unit: bag/ carton - 10/640 - -/- - 10/400	Item-No. 25000 2 25040 8 25050 7 25060 6 - 25080 4 25070 5	unit: bag/ carton -///////-	Item-No. 25001 9 25011 8 25021 7 25031 6 25111 2 25041 5 25091 0	unit: bag/ carton -/- 10/500 -/- 10/360 -/- 10/250	Item-No. 25002 6 25012 5 25022 4 25032 3 25092 7 25042 2 25112 2	unit: bag/ carton -/- 10/380 -/- 10/200 /- 10/200	Item-No. 25003 3 25013 2 25023 1 25063 7 25173 3 25083 5 25103 0	unit: bag/carton -/- 10/180 -/- 10/120 -/- 10/120 -/-	1tem-No 25014 9 25024 8 25034 7 25074 3 25084 2 25094 1	unit: bag/ carton - 10/120 -/- -/ 10 -/- 10/ 80 -/-
Length mm 30 40 50 60 70 80 90	Item-No 25049 1 - 25069 9 - 25089 7 - 25109 2	unit: bag/ carton - 10/640/ 10/400 - 10/500	Item-No. 25000 2 25040 8 25050 7 25060 6 - 25080 4 25070 5 25100 9	unit: bag/carton -/////- 10/500	Item-No. 25001 9 25011 8 25021 7 25031 6 25111 2 25041 5 25091 0 25051 4	unit: bag/carton -/- 10/500 -/- 10/360 -/- 10/250 -/- 10/260	Item-No. 25002 6 25012 5 25022 4 25032 3 25092 7 25042 2 25112 2 25052 1	unit: bag/ carton -/- 10/380 -/- 10/200 /- 10/200 -/- 10/170	Item-No. 25003 3 25013 2 25023 1 25063 7 25173 3 25083 5 25103 0 25053 8 25113 9	unit: bag/carton -/- 10/180 -/- 10/120 -/- 10/120 -/- 10/120 -/-	1tem-No 25014 9 25024 8 25034 7 25074 3 25084 2 25094 1 25054 5	unit: bag/ carton - 10/120 -/- -/ 10 -/- 10/ 80 -/- 10/ 70
Length mm 30 40 50 60 70 80 90 100	Item-No 25049 1 - 25069 9 - 25089 7 - 25109 2	unit: bag/ carton - 10/640/ 10/400 - 10/500	Item-No. 25000 2 25040 8 25050 7 25060 6 - 25080 4 25070 5 25100 9 25110 8	unit: bag/carton -//////////	Item-No. 25001 9 25011 8 25021 7 25031 6 25111 2 25041 5 25091 0 25051 4 25121 4	unit: bag/carton -/- 10/500 -/- 10/360 -/- 10/250 -/- 10/260 -/-	Item-No. 25002 6 25012 5 25022 4 25032 3 25092 7 25042 2 25112 2 25052 1 25122 1	unit: bag/carton -/- 10/380 -/- 10/200 /- 10/200 -/- 10/170 -/-	Item-No. 25003 3 25013 2 25023 1 25063 7 25173 3 25083 5 25103 0 25053 8 25113 9	unit: bag/carton -/- 10/180 -/- 10/120 -/- 10/120 -/- 10/120 -/-	1tem-No 25014 9 25024 8 25034 7 25074 3 25084 2 25094 1 25054 5 25114 6	unit: bag/ carton - 10/120 -/- -/ 10 -/- 10/ 80 -/- 10/ 70
Length mm 30 40 50 60 70 80 90 100 110	Item-No 25049 1 - 25069 9 - 25089 7 - 25109 2	unit: bag/ carton - 10/640/ 10/400 - 10/500/-	Item-No. 25000 2 25040 8 25050 7 25060 6 - 25080 4 25070 5 25100 9 25110 8 25120 7	unit: bag/carton -/////- 10/500 -//-	Item-No. 25001 9 25011 8 25021 7 25031 6 25111 2 25041 5 25091 0 25051 4 25121 4 25131 3	unit: bag/ carton -/- 10/500 -/- 10/360 -/- 10/250 -/- 10/260 -/- 10/230 -/-	Item-No. 25002 6 25012 5 25022 4 25032 3 25092 7 25042 2 25112 2 25052 1 25122 1 25132 0	unit: bag/ carton -/- 10/380 -/- 10/200 /- 10/200 -/- 10/170 -/- 10/140 -/-	Item-No. 25003 3 25013 2 25023 1 25063 7 25173 3 25083 5 25103 0 25053 8 25113 9 25123 8 25143 6	unit: bag/carton -/- 10/180 -/- 10/120 -/- 10/120 -/- 10/120 -/- 10/120 -/-	1tem-No 25014 9 25024 8 25034 7 25074 3 25084 2 25094 1 25054 5 25114 6 25124 5	unit: bag/ carton - 10/120 -// 10 -/- 10/ 80 -/- 10/ 70 -/- 10/ 50 -/-
Length mm 30 40 50 60 70 80 90 100 110 120 140	Item-No 25049 1 - 25069 9 - 25089 7 - 25109 2 - 25129 0 -	unit: bag/carton - 10/640/ 10/400//	Item-No. 25000 2 25040 8 25050 7 25060 6 - 25080 4 25070 5 25100 9 25110 8 25120 7 25140 5	unit: bag/carton -//////////	Item-No. 25001 9 25011 8 25021 7 25031 6 25111 2 25041 5 25091 0 25051 4 25121 4 25131 3 25151 1	unit: bag/ carton -/- 10/500 -/- 10/360 -/- 10/250 -/- 10/260 -/- 10/230 -/-	Item-No. 25002 6 25012 5 25022 4 25032 3 25092 7 25042 2 25112 2 25052 1 25122 1 25132 0 25152 8	unit: bag/ carton -/- 10/380 -/- 10/200 /- 10/200 -/- 10/170 -/- 10/140 -/-	Item-No. 25003 3 25013 2 25023 1 25063 7 25173 3 25083 5 25103 0 25053 8 25113 9 25123 8 25143 6	unit: bag/carton -/- 10/180 -/- 10/120 -/- 10/120 -/- 10/120 -/- 10/120 -/-	1tem-No 25014 9 25024 8 25034 7 25074 3 25084 2 25094 1 25054 5 25114 6 25124 5 25174 0	unit: bag/ carton - 10/120 -// 10 -/- 10/ 80 -/- 10/ 70 -/- 10/ 50 -/-
Length mm 30 40 50 60 70 80 90 110 120 140 150	Item-No 25049 1 - 25069 9 - 25089 7 - 25109 2 - 25129 0 - 25159 7	unit: bag/carton - 10/640/ 10/400 - 10/500//-	Item-No. 25000 2 25040 8 25050 7 25060 6 - 25080 4 25070 5 25100 9 25110 8 25120 7 25140 5	unit: bag/carton -/////- 10/500 -///-	Item-No. 25001 9 25011 8 25021 7 25031 6 25111 2 25041 5 25091 0 25051 4 25121 4 25131 3 25151 1 25061 3	unit: bag/carton -/- 10/500 -/- 10/360 -/- 10/250 -/- 10/260 -/- 10/230 -/- 10/200	Item-No. 25002 6 25012 5 25022 4 25032 3 25092 7 25042 2 25112 2 25052 1 25122 1 25132 0 25152 8 25062 0 25162 7	unit: bag/ carton -/- 10/380 -/- 10/200 /- 10/200 -/- 10/170 -/- 10/140 -/- 10/120 -/-	Item-No. 25003 3 25013 2 25023 1 25063 7 25173 3 25083 5 25103 0 25053 8 25113 9 25123 8 25143 6 25153 5	unit: bag/carton -/- 10/180 -/- 10/120 -/- 10/120 -/- 10/120 -/- 10/ 80 -/- 10/ 40 -/-	1tem-No 25014 9 25024 8 25034 7 25074 3 25084 2 25094 1 25054 5 25114 6 25124 5 25174 0 25154 2 25164 1	unit: bag/ carton - 10/120 -// 10 -/- 10/ 80 -/- 10/ 70 -/- 10/ 50 -/- 10/ 45
Length mm 30 40 50 60 70 80 90 110 120 140 150 160	Item-No 25049 1 - 25069 9 - 25089 7 - 25109 2 - 25129 0 - 25159 7	unit: bag/carton - 10/640/ 10/500/	Item-No. 25000 2 25040 8 25050 7 25060 6 - 25080 4 25070 5 25100 9 25110 8 25120 7 25140 5	unit: bag/carton -/////- 10/500 -///-	Item-No. 25001 9 25011 8 25021 7 25031 6 25111 2 25041 5 25091 0 25051 4 25121 4 25131 3 25151 1 25061 3	unit: bag/carton -/- 10/500 -/- 10/360 -/- 10/250 -/- 10/260 -/- 10/230 -/- 10/200 -/-	Item-No. 25002 6 25012 5 25022 4 25032 3 25092 7 25042 2 25112 2 25052 1 25122 1 25132 0 25152 8 25062 0 25162 7	unit: bag/ carton -/- 10/380 -/- 10/200 /- 10/200 -/- 10/170 -/- 10/140 -/- 10/120 -/-	Item-No. 25003 3 25013 2 25023 1 25063 7 25173 3 25083 5 25103 0 25053 8 25113 9 25123 8 25143 6 25153 5 25163 4 25183 2	unit: bag/carton -/- 10/180 -/- 10/120 -/- 10/120 -/- 10/120 -/- 10/ 80 -/- 10/ 40 -/- 10/ 72	1tem-No 25014 9 25024 8 25034 7 25074 3 25084 2 25094 1 25054 5 25114 6 25124 5 25174 0 25154 2 25164 1	unit: bag/carton - 10/120 -// 10 -/- 10/ 80 -/- 10/ 50 -/- 10/ 45 -// 10
Length mm 30 40 50 60 70 80 90 100 110 120 140 150 160 180	Item-No 25049 1 - 25069 9 - 25089 7 - 25109 2 - 25129 0 - 25159 7 -	unit: bag/carton - 10/640/ 10/400////	Item-No. 25000 2 25040 8 25050 7 25060 6 - 25080 4 25070 5 25100 9 25110 8 25120 7 25140 5 25150 4 -	unit: bag/carton -/////- 10/500 -////-	Item-No. 25001 9 25011 8 25021 7 25031 6 25111 2 25041 5 25091 0 25051 4 25121 4 25131 3 25151 1 25061 3 25161 0 25081 1	unit: bag/carton -/- 10/500 -/- 10/360 -/- 10/250 -/- 10/260 -/- 10/230 -/- 10/200 -// 10	Item-No. 25002 6 25012 5 25022 4 25032 3 25092 7 25042 2 25112 2 25052 1 25122 1 25132 0 25152 8 25062 0 25162 7 25142 9	unit: bag/ carton -/- 10/380 -/- 10/200 /- 10/200 -/- 10/170 -/- 10/140 -/- 10/100 -	Item-No. 25003 3 25013 2 25023 1 25063 7 25173 3 25083 5 25103 0 25053 8 25113 9 25123 8 25143 6 25153 5 25163 4 25183 2	unit: bag/carton -/- 10/180 -/- 10/120 -/- 10/120 -/- 10/120 -/- 10/ 80 -/- 10/ 40 -/- 10/ 72	ltem-No 25014 9 25024 8 25034 7 25074 3 25084 2 25094 1 25054 5 25114 6 25124 5 25174 0 25154 2 25164 1 25184 9 25194 8	unit: bag/carton - 10/120 -// 10 -/- 10/ 80 -/- 10/ 50 -/- 10/ 45 -// 10
Length mm 30 40 50 60 70 80 90 100 110 120 140 150 160 180 190	Item-No 25049 1 - 25069 9 - 25089 7 - 25109 2 - 25129 0 - 25159 7	unit: bag/carton - 10/640/ 10/500/	Item-No. 25000 2 25040 8 25050 7 25060 6 - 25080 4 25070 5 25100 9 25110 8 25120 7 25140 5	unit: bag/carton -/////- 10/500 -////	Item-No. 25001 9 25011 8 25021 7 25031 6 25111 2 25041 5 25091 0 25051 4 25121 4 25131 3 25151 1 25061 3 25161 0 25081 1 -	unit: bag/carton -/- 10/500 -/- 10/360 -/- 10/250 -/- 10/260 -/- 10/230 -/- 10/200 -// 10	Item-No. 25002 6 25012 5 25022 4 25032 3 25092 7 25042 2 25112 2 25052 1 25132 0 25152 8 25062 0 25162 7 25142 9 -	unit: bag/ carton -/- 10/380 -/- 10/200 /- 10/200 -/- 10/170 -/- 10/140 -/- 10/100 -	Item-No. 25003 3 25013 2 25023 1 25063 7 25173 3 25083 5 25103 0 25053 8 25113 9 25123 8 25143 6 25153 5 25163 4 25183 2 25193 1	unit: bag/carton -/- 10/180 -/- 10/120 -/- 10/120 -/- 10/120 -/- 10/ 80 -/- 10/ 40 -/- 10/ 72 10/ 72 10/ 55	ltem-No 25014 9 25024 8 25034 7 25074 3 25084 2 25094 1 25054 5 25114 6 25124 5 25174 0 25154 2 25164 1 25184 9 25194 8 25204 4	unit: bag/ carton - 10/120 -// 10 -/- 10/ 80 -/- 10/ 70 -/- 10/ 50 -/- 10/ 45 -// 10
Length mm 30 40 50 60 70 80 90 100 110 120 140 150 160 180 190 200	Item-No 25049 1 - 25069 9 - 25089 7 - 25109 2 - 25129 0 - 25159 7 25209 9	unit: bag/carton - 10/640/ 10/400/////-	Item-No. 25000 2 25040 8 25050 7 25060 6 - 25080 4 25070 5 25100 9 25110 8 25120 7 25140 5	unit: bag/carton -/////- 10/500 -////////-	Item-No. 25001 9 25011 8 25021 7 25031 6 25111 2 25041 5 25091 0 25051 4 25121 4 25131 3 25151 1 25061 3 25161 0 25081 1 -	unit: bag/ carton -/- 10/500 -/- 10/360 -/- 10/250 -/- 10/260 -/- 10/230 -/- 10/200 -/- 10/120 -	Item-No. 25002 6 25012 5 25022 4 25032 3 25092 7 25042 2 25112 2 25052 1 25122 1 25132 0 25152 8 25062 0 25162 7 25142 9 - 25072 9	unit: bag/ carton -/- 10/380 -/- 10/200 -/- 10/200 -/- 10/170 -/- 10/140 -/- 10/100 - 10/ 85 -	Item-No. 25003 3 25013 2 25023 1 25063 7 25173 3 25083 5 25103 0 25053 8 25113 9 25123 8 25143 6 25153 5 25163 4 25183 2 25193 1 25073 6 25223 5	unit: bag/carton -/- 10/180 -/- 10/120 -/- 10/120 -/- 10/120 -/- 10/ 80 -/- 10/ 40 -/- 10/ 72 10/ 72 10/ 55 10/120	ltem-No 25014 9 25024 8 25034 7 25074 3 25084 2 25094 1 25054 5 25114 6 25124 5 25174 0 25154 2 25164 1 25184 9 25194 8 25204 4 -	unit: bag/carton - 10/120 -// 10 -/- 10/ 80 -/- 10/ 50 -/- 10/ 45 -// 10 10/ 70 -/ 32



Pipe nipples (23)



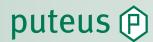
According to EN 10241, zinc plated

11/2"	Pack. unit:	2"	Pack. unit:	2 1/2"	Pack. unit:	3"	Pack. unit:	4"	Pack. unit:
Item-No.	bag/ carton								
-	-	-	-	-	-	-	-	-	-
24045 4	-/168	24046 1	-/-	-	-	-	-	-	-
240058	-/-	24056 0	-/-	-	-	-	-	-	-
24065 2	-/-	24066 9	-/-	240676	-/-	24068 3	-/-	241697	-/-
24075 1	-/-	240768	-/-	-	-	-	-	-	-
24085 0	-/ 64	240867	10/40	240874	-/-	24088 1	-/-	242298	-/-
240959	-/-	240966	-/-	-	-	-	-	-	-
24105 5	-/-	24106 2	10/30	24107 9	10/10	24108 6	10/20	242397	-/-
24115 4	-/-	24116 1	-/-	-	-/-	-	-/-	-	-/-
24125 3	-/ 40	24126 0	-/ 30	241277	-/-	24128 4	-/-	24249 6	-/-
24145 1	-/-	241468	-/-	-	-/-	24148 2	-/-	-	-/-
24155 0	10/30	241567	10/20	24157 4	-/-	24158 1	10/10	24269 4	-/-
24165 9	-/-	24166 6	-/-	-	-/-	24168 0	-/-	-	-/-
241857	-/-	24186 4	-/-	24187 1	-/-	241888	-/-	24279 3	-/-
-	-	24196 3	-/-	-	-	-	-	-	-
24205 2	-/ 28	242069	10/ 10	242076	-/-	242083	-/ 8	24219 9	-/4
-	-	-	-	-	-	-	-	-	-
242557	-/ 24	24256 4	-/-	242571	-/-	242588	-/-	24289 2	-/-
20105 9	-/ 24	201066	-/-	20107 3	-/-	20108 0	-/-	20119 6	-/-

11/2"	Pack. unit:	2"	Pack. unit:	2 1/2"	Pack. unit:	3"	Pack. unit:	4"	Pack. unit:
Item-No.	bag/ carton								
-	-	-		-	-	-	-	-	-
25045 3	-/-	25046 0	-/-	-	-	-	-	-	-
250057	-/-	25056 9	-/-	-	-	-	-	-	-
250658	-/-	250668	-/-	250675	-/-	25068 2	-/-	25169 6	-/-
25075 0	-/-	250767	-/-	-	-	-	-	-	-
25085 9	-/64	250866	-/-	250873	-/-	25088 0	-/-	252297	-/-
250958	-/-	25096 5	-/-	-	-	-	-	-	-
25105 4	-/-	25106 1	-/-	251078	-/-	25108 5	10/20	25239 6	10/10
25115 3	-/-	25116 0	-/-	-	-/-	-	-/-	-	-/-
25125 2	-/40	25126 9	-/30	25127 6	-/-	25128 3	-/-	25249 5	-/-
25145 0	-/-	25146 7	-/-	-	-/-	25148 1	-/-	-	-/-
25155 9	-/-	25156 0	-/-	25157 3	-/-	25158 0	-/-	252693	-/-
25165 8	-/-	25166 5	-/-	-	-/-	25168 9	-/-	-	-/-
25185 6	-/-	25186 3	-/-	25187 0	-/-	25188 7	-/-	25279 2	-/-
-	-	25196 2	-/-	-	-	-	-	-	-
25205 8	-/28	252068	10/10	25207 5	-/-	25208 2	-/ 8	25219 8	7/ 7
-	-	-	-	-	-	-	-	-	-
25255 6	-/24	252563	-/-	25257 0	-/-	252587	-/-	25289 1	-/-
25305 3	-/24	25306 5	10/10	25307 2	-/-	25308 9	-/-	25319 5	-/-



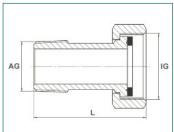
According to EN 10241, black



Water meter screw connections made of brass

Water meter screw according to the drinking water ordinance



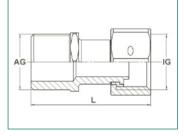


Brass hot-pressed, plain or chrome-plated, union nut with sealing eye, connecting piece with external thread, **with sealing**

Item-No.:	Item-No.:	Socket:	Union nut:	Length:	Packing unit:
plain	chrome plated	M	F	L	
WS-551-b-11780	WS-551-a-11780	R1/2"	G3/4"	45	-/100
WS-562-b-11780	WS-562-a-11780	R3/4"	G1"	58	-/100
WS-664-b-11780	-	R1"	G 1 1/4"	60	2/ 50
WS-665-11780	-	R 1 1/4"	G 1 ½"	71	0/ 25
WS-666-b-11780	-	R 1 1/2"	G2"	82,5	0/ 25
as above, but withou	it sealing				
WS-551-b-11780-OD	WS-551-a-11780-OD	R1/2"	G3/4"	45	0/100
WS-562-b-11780-OD	WS-562-a-11780-OD	R3/4"	G 1"	58	0/100
WS-664-b-11780-OD	-	R1"	G 1 1/4"	60	o/ 50
WS-665-11780-OD	-	R 1 1/4"	G 1 ½"	71	0/ 25
WS-666-b-11780-OD	-	R 1 1/2"	G2"	82,5	0/ 25
WS-667-b-G-N	-	R2"	G 2 ½"	75	-/-
Union nut loose, wit	h sealing (without illu	stration)			
WS-685-b-Mutter	-	-	G3/4"	13,5	-/700
WS-686-b-Mutter	-	-	G1"	18	-/400
WS-664-b-Mutter	-	-	G 1 1/4"	20	-/200
Male threaded conn	ecting piece, without	sealing (with	out illustrat	ion)	
WS-685-b-Tülle	-	R1/2"	-	39,5	-/500
WS-686-b-Tülle	-	R3/4"	-	48	-/250
WS-664-b-Tülle	-	R1"	-	56	-/ 140

Water meter screw according to the drinking water ordinance, reduced





Brass hot-pressed, plain, union nut with sealing eye, connecting piece with external thread, **with sealing**

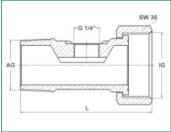
Item-No.:	Socket:	Union nut:	Length:	Wrench size:	Packing unit:
plain	M	F	L		
WS-2159 (with fuse ring)	R1/2"	G1/2"	45		-/-
WS-1555-b-11780	R3/4"	G3/4"	61,5	30	1/150
WS-1556-b-11780	R1"	G1"	60,5	38	1/100

Water meter screw according to the drinking water ordinance

Brass hot-pressed, plain, without sealing, with drain connection G1/4", wrench size 36

Item-No.:	Drain connec.:	Socket:	Union nut:	Length:	Packing unit:
plain	F	M	F	L	
WS-3265-OD	G1/4"	R3/4"	G1"	67	-/-



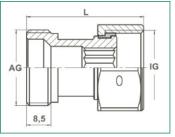


Water meter screw according to the drinking water ordinance

Brass hot-pressed, plain, without sealing, with locking ring and sealing eye

Item-No.:	Item-No.:	Socket:	Union nut:	Length:	Packing unit:
plain	chrome plated	M	F	L	
S-1228-A	-	G3/4"	G3/4"	41	25/150



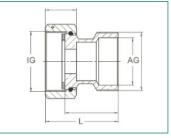


Screw connection with union nut

Chrome-plated, with AFM sealing, F/M

Item-No.:	Dim.:	Length:	Wrench size:	Packing unit:
S-3381	G1 1/4" x G1 1/4"	50,5	46,5	10/50
S-3382	G 2" x G 2"	56	65	5/30

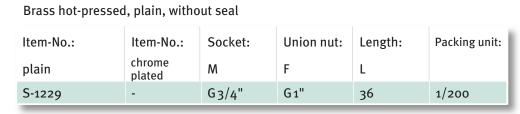


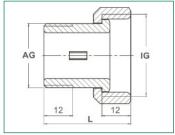




Water meter screw according to the drinking water ordinance







AFM gaskets

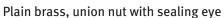


Spare parts water seals AFM 34 (DVGW/KTW W-270, SVGW, ÖVGW), temperature up to 200°C at 25 bar $\,$

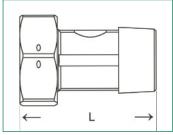
Item-No.:	Connection:	Size:	Packing unit:
WS-551-AFM	16,9 x 23,7 x 2 mm	3/4"	-/-
WS-562-AFM	23,2 x 29,8 x 2 mm	1"	-/5000
WS-1556-AFM	23,0 x 28,0 x 2 mm	1"	-/5000
WS-664-AFM	29,2 x 38,0 x 2 mm	1 1/4"	-/-
WS-665-AFM	32,0 x 44,0 x 2 mm	1 1/2"	-/-
WS-666-AFM	43,4 x 55,0 x 2 mm	2"	-/-

Screw connection with injection point / connection M 10x1





Item-No.:	Connection:	Union nut:	Length:	Packing unit:
plain	socket M		L	
WS-1475-b	R1"	G 1 1/4"	-	10/100

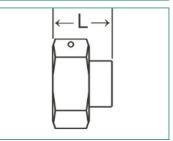


Screw connection with solder connection

Plain brass, union nut with sealing eye, with sealing

Item-No.:	Connection:	Union nut:	Length:	Packing unit:
plain	solder socket		L	
WS-563	15 mm	G3/4"	22	-/ 100
WS-564	18 mm	G3/4"	22	20/500
WS-565	22 mm	G1"	31,5	-/ 100



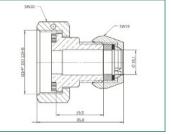


Screw connection for washstand meters

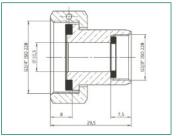
Brass chrome-plated, union nut with sealing eye

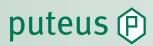
Item-No.:	Connection:	Union nut:	Length:	Packing unit:
	Srew connection outlet: Compression nut 3/4" x 10 mm	G3/4"	34	-/ 80
WS-569 (with- out sealing)	Srew connection inlet: Female thread 3/8"	G3/4"	29,5	-/100
WS-570	Set consisting of: WS-568-11780 + WS-569			10/500





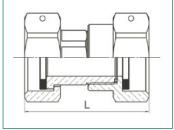






Screw connection for tap water meter





Brass chrome-plated, female thread on both sides, for connection with outlet valves 1/2" and 3/4", union nut with sealing eye

Item-No.:	Connection:	suitable for:	Length:	Packing unit:
		outlet valves size	L	
WS-566	G3/4" x G3/4"	1/2"	47	-/100
WS-566-11780 (with AFM sealing)	G3/4" x G3/4"	1/2"	47	-/100
WS-567 (without sealing)	G3/4" x G1"	3/4"	49	-/100

Compression fittings, brass, for PE-pipes

Compression fittings for plastic pipes (HDPE and LDPE) in sizes from 1/2 "x 20 mm to 3" x 90 mm. Suitable for piping systems underground or above ground level for fixed or mobile installation. For conveying potable water, waste water and other liquid media.

Material: brass (MS 58)

maximum operating pressure: 16 bar

operating temperature: -20°C to + 120°C

application range: Gas approved, tested according to

DIN DVGW V 114 W

Consisting of housing, for example female thread, O-ring, pressure ring, clamping ring and screws (nut).

For the medium gas a gas sleeve or a support tube must be used in addition.



Straight form, with female thread and union nut

Item-No.:	Female thread:	PE-pipe-	PE-pipe-	Packing unit:
	Size	Size	outside Ø	
345012	G1/2"	1/2"	20 mm	20/320
34502 9	G3/4"	3/4"	25 mm	15/240
34503 6	G1"	1"	32 mm	12/120
34504 3	G 1 1/4"	1 1/4"	40 mm	6/ 60
34505 0	G 1 ½"	1 1/2"	50 mm	4/ 72
34506 7	G 2"	2"	63 mm	2/ 38



Straight form, with male thread and union nut

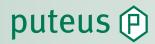
Item-No.:	Female thread:	PE-pipe-	PE-pipe-	Packing unit:
	Size	Size	outside Ø	
34511 1	G1/2"	1/2"	20 mm	20/320
34512 8	G3/4"	3/4"	25 mm	15/240
34513 5	G1"	1"	32 mm	12/120
34514 2	G 1 1/4"	1 1/4"	40 mm	6/ 60
34515 9	G 1 ½"	1 1/2"	50 mm	4/ 72
34516 6	G 2"	2"	63 mm	2/ 38



Elbow, with two union nuts

Item-No.:	Female thread:	PE-pipe-	PE-pipe-
	Size	Size	outside Ø
34571 5	1/2"	20 mm	12/216
34572 2	3/4"	25 mm	10/100
34573 9	1"	32 mm	6/ 78
34574 6	1 1/4"	40 mm	4/ 48
34575 3	1 1/2"	50 mm	2/ 36
34576 o	2"	63 mm	2/ 14





Elbow, with female thread and union nut



Item-No.:	Female thread-	PE-pipe-	PE-pipe-	Packing unit:
	size	size	outside Ø	
34521 0	G1/2"	1/2"	20 mm	15/240
34522 7	G3/4"	3/4"	25 mm	12/192
34523 4	G1"	1"	32 mm	8/ 104
34524 1	G 1 1/4"	1 1/4"	40 mm	6/ 72
34525 8	G 1 ½"	1 1/2"	50 mm	4/ 48

Elbow, with male thread and union nut



Item-No.:	Male thread-	PE-pipe-	PE-pipe-	Packing unit:
	size	size	outside Ø	
34531 9	G1/2"	1/2"	20 mm	15/240
34532 6	G3/4"	3/4"	25 mm	12/120
34533 3	G 1"	1"	32 mm	8/ 80
34534 0	G 1 1/4"	1 1/4"	40 mm	6/ 72
34535 7	G 1 ½"	1 1/2"	50 mm	4/ 48
34536 4	2"	2"	63 mm	2/ 38

Elbow, with female thread union nut and wall fixation



Item-No.:	Female thread-	PE-pipe-	PE-pipe-	Packing unit:
	size	size	outside Ø	
345418	G1/2"	1/2"	20 mm	15/150
34542 5	G3/4"	3/4"	25 mm	12/156
34543 2	G1"	1"	32 mm	8/ 64

T-piece, with three union nuts



Item-No.:	PE-pipe-	PE-pipe-	Packing unit:
	size	outside Ø	
34566 1	1/2"	20 mm	6/144
345678	3/4"	25 mm	6/108
34568 5	1"	32 mm	4/ 52
34569 2	1 1/4"	40 mm	4/ 36
34570 8	1 1/2"	50 mm	2/ 28
34560 9	2"	63 mm	-/-

T-piece, with female thread and two union nuts

Item-No.:	Female thread-	PE-pipe-	PE-pipe-	Packing unit:
	size	size	outside Ø	
345517	G1/2"	1/2"	20 mm	8/192
34552 4	G3/4"	3/4"	25 mm	6/ 96
34553 1	G1"	1"	32 mm	4/ 72
34554 8	G 1 1/4"	1 1/4"	40 mm	4/ 36
34555 5	G 1 ½"	1 1/2"	50 mm	2/ 26



Straight short form, with two union nuts

Item-No.:	PE-pipe-	PE-pipe-	Packing unit:
	size	outside Ø	
34581 4	1/2"	20 mm	12/192
34582 1	3/4"	25 mm	10/160
34583 8	1"	32 mm	8/104
34584 5	1 1/4"	40 mm	4/ 80
34585 2	1 1/2"	50 mm	2/ 48
34580 7	2"	63 mm	-/-



Straight long form, with two union nuts

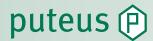
Item-No.:	PE-pipe-	PE-pipe-	Packing unit:
	size	outside Ø	
34586 9	1"	32 mm	6/72
34587 6	1 1/4"	40 mm	4/36
34588 3	1 1/2"	50 mm	2/36
34589 0	2"	63 mm	2/14



Sealing set for PE pipe compression fittings

Item-No.:	PE-pipe-	PE-pipe-	Packing unit:
	size	outside Ø	
34591 3	1/2"	20 mm	-/100
34592 0	3/4"	25 mm	-/ 75
345937	1"	32 mm	-/ 50
34594 4	1 1/4"	40 mm	-/ 30





Supporting ferrule



Stainless steel, necessary for the use with the medium gas, only for PE pipe compression fittings made of brass

Item-No.:	PE-pipe-size	Packing unit:
34500 5	1/2"	-/100
34510 4	3/4"	-/ 75
34520 3	1"	-/ 50
34530 2	1 1/4"	-/ 30

Compression fittings, polypropylene, for PE-pipes

Material: PP

maximum operating pressure: 10 bar

operating temperature : o°C to + 30°C

application range : Irrigation and spray irrigation, not suitable for gas or compressed air. Consisting of housing, for example female thread, O-ring, pressure ring, clamping ring and union nut.

Straight form, with two union nuts



Item-No.:	Female thread-	PE-pipe-	Packing unit:
	size	outside Ø	
35581 3	1/2"	20 mm	50/300
35582 0	3/4"	25 mm	50/200
355837	1"	32 mm	50/150
35584 4	1 1/4"	40 mm	-/ 90
35585 1	1 1/2"	50 mm	-/ 50
35586 8	2"	63 mm	-/ 30

Straight form, with female thread and union nut



Item-No.:	Female thread-	PE-pipe-	PE-pipe-	Packing unit:
	size	size	outside Ø	
355011	1/2"	1/2"	20 mm	50/350
35502 8	3/4"	3/4"	25 mm	50/350
35503 5	1"	1"	32 mm	50/200
35504 2	1 1/4"	1 1/4"	40 mm	-/ 125
35505 9	1 1/2"	1 1/2"	50 mm	-/ 75
35506 6	2"	2"	63 mm	-/ 65

Straight form, with male thread and union nut

Item-No.:	Male thread-	PE-pipe-	PE-pipe-	Packing unit:
	size	size	outside Ø	
35511 0	1/2"	1/2"	20 mm	50/550
35512 7	3/4"	3/4"	25 mm	50/350
35513 4	1"	1"	32 mm	50/200
35514 1	1 1/4"	1 1/4"	40 mm	-/ 130
35515 8	1 1/2"	1 1/2"	50 mm	-/ 80
35516 5	2"	2"	63 mm	-/ 45



Elbow, with two union nuts

Item-No.:	PE-pipe-	PE-pipe-	Packing unit:
	size	outside Ø	
355717	1/2"	20 mm	50/250
35572 1	3/4"	25 mm	50/200
35573 8	1"	32 mm	-/ 50
35574 5	1 1/4"	40 mm	-/ 70
35575 2	1 1/2"	50 mm	-/ 40
35576 9	2"	63 mm	-/ 23



Elbow, with female thread and union nut

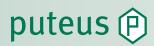
Item-No.:	Female thread-	PE-pipe-	PE-pipe-	Packing unit:
	size	size	outside Ø	
35521 9	1/2"	1/2"	20 mm	20/460
35522 6	3/4"	3/4"	25 mm	20/300
35523 3	1"	1"	32 mm	50/ 150
35524 0	1 1/4"	1 1/4"	40 mm	5/ 90
355257	1 1/2"	1 1/2"	50 mm	-/ 55
35526 4	2"	2"	63 mm	-/ 30



Elbow, with male thread and union nut

Item-No.:	Male thread-	PE-pipe-	PE-pipe-	Packing unit:
	size	size	outside Ø	
35531 8	1/2"	1/2"	20 mm	50/450
35532 5	3/4"	3/4"	25 mm	50/300
35533 2	1"	1"	32 mm	50/150
35534 9	1 1/4"	1 1/4"	40 mm	-/ 120
35535 6	1 1/2"	11/2"	50 mm	-/ 60
35536 3	2"	2"	63 mm	-/ 35





T-piece, with three union nuts



Item-No.:	PE-pipe-	PE-pipe-	Packing unit:
	size	outside Ø	
35566 o	1/2"	20 mm	50/150
355677	3/4"	25 mm	50/150
35568 4	1"	32 mm	-/ 8o
35569 1	1 1/4"	40 mm	-/ 45
35559 2	1 1/2"	50 mm	-/ 25
35560 8	2"	63 mm	-/ 14

T-piece, with female thread and two union nuts



Item-No.:	Female thread-	PE-pipe-	PE-pipe-	Packing unit:
	size	size	outside Ø	
35551 6	1/2"	1/2"	20 mm	20/240
35552 3	3/4"	3/4"	25 mm	10/ 150
35553 0	1"	1"	32 mm	50/100
35554 7	1 1/4"	1 1/4"	40 mm	-/ 60
35555 4	1 1/2"	1 1/2"	50 mm	-/ 33
35556 1	2"	2"	63 mm	-/ 20
35550 9	3/4"	1"	32 mm	-/ 100

T-piece, with male thread and two union nuts



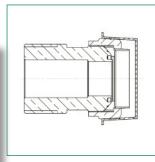
Item-No.:	Male thread-	PE-pipe-	PE-pipe-	Packing unit:
	size	size	outside Ø	
355417	1/2"	1/2"	20 mm	50/200
35542 4	3/4"	3/4"	25 mm	50/ 150
35543 1	1"	1"	32 mm	-/ 100
35544 8	1 1/4"	1 1/4"	40 mm	-/ 50
35545 5	1 ½"	1 1/2"	50 mm	-/ 30
35546 2	2"	2"	63 mm	-/ 18

Brass fittings for solar corrugated stainless steel pipes material: CW617N, surface: plain

Screw connection with male thread

Corrugated screw connection with male thread, metal sealing, safety clamps with teeth, with red plastic protection cap

Item-No.:	Connection:	Packing unit:
36321 4	1/2" x DN 12	-/50
363221	R1/2" x DN 16	-/50
36323 8	R3/4" x DN 16	-/50
36324 5	R3/4" x DN 20	-/50
36325 2	R1" x DN 20	-/50

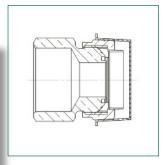




Screw connection with female thread

Corrugated screw connection with female thread, metal sealing, safety clamps with teeth, with red plastic protection cap

Item-No.:	Connection:	Packing unit:
36311 5	1/2" X DN 12	-/100
36312 2	Rp 1/2" x DN 16	-/100
36313 9	Rp 3/4" x DN 16	-/ 50
36314 6	Rp 3/4" x DN 20	-/ 50
36315 3	Rp 1" x DN 20	-/ 50

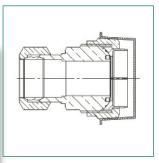




For connection with corrugated tube/copper pipe, safety clamps with teeth, with red plastic protection cap

Item-No.:	Connection:	Packing unit:
36331 3	15 mm x DN 16	-/50
36332 0	18 mm x DN 16	-/50
363337	18 mm x DN 20	-/50
36334 4	22 mm x DN 20	-/50
36335 1	22 mm x DN 16	-/50

Screw connection for copper pipe

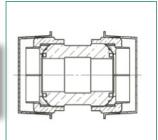




Screw connection (coupling)

Corrugated screw connection (coupling), metal sealing, safety clamps with teeth, with red plastic protection cap

Item-No.:	Connection:	Packing unit:
363016	DN 16 x DN 16	-/50
36302 3	DN 20 x DN 20	-/50



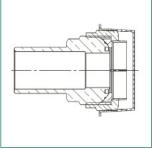




Brass fittings for solar corrugated stainless steel pipes material: CW617N, surface: plain

Connecting piece



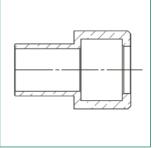


Metal sealing, safety clamps with teeth, with red plastic protection cap

Item-No.:	Connection:	Packing unit:
36343 6	22 mm x DN 16	-/100
36345 0	22 mm x DN 20	-/ 50

Connecting piece



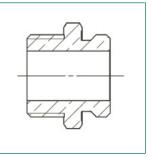


Socket with smooth spout, hexagonal

Item-No.:	Connection:	Packing unit:
36371 9	G 3/4" x 18/22 mm	-/250
36372 6	G1" x 18/22 mm	25/150

Nipple male thread / male thread



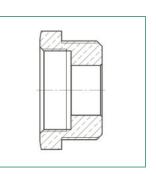


Nipple with male thread/male thread, delivery without O-ring

Item-No.:	Connection:	Packing unit:
36373 3	G3/4" x G3/4" L= 27 mm	25/350

Bushing





With male thread/female thread for flat-sealing connections

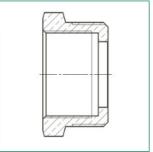
Item-No.:	Connection:	Packing unit:
36350-3/4	G3/4" x G1/2"	-/250
36350-1	G1" x G3/4"	-/ 175
36350-11/4	G 1½" X G 1"	-/ 80

Brass fittings for solar corrugated stainless steel pipes material: CW617N, surface: plain

Bushing

With male thread/female thread, metal sealing (conical thread)

Item-No.:	Connection:	Packing unit:
36351-3/4	G 3/4" x Rp 1/2"	-/350
36351-1	G1" x Rp 3/4"	-/200
36351-1 ¹ / ₄	G 11/4" x Rp 1"	-/ 80
36351-11/2	G 1½" x Rp 1¼"	-/100

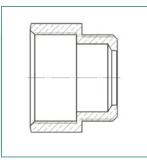




Socket nipple

With male thread/female thread, with enlarged wrench flat

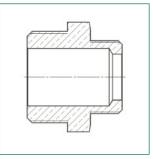
Item-No.:	Connection:	Packing unit:
36352-1/2	G 1/2" x Rp 1/2"	-/350
36352-3/4	G 3/4" x Rp 3/4"	-/200
36352-1	G 1" x Rp 1"	-/120
36352-11/4	G 11/4" x Rp 11/4"	-/ 90





Hexagon double nipple

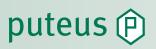
Item-No.:	Connection:	Pack. unit:		
With male thread	I/male thread, cylindrical thread , f	lat sealing		
36353-3/4	G 3/4" x G 1/2"	10/200		
36353-1	G1" x G3/4"	-/ 110		
36353-11/4	G 1½" X G 1"	-/ 50		
36353-11/2	G 1½" X G 1¼"	-/ 50		
With male thread	I/male thread, reduced thread , con	ical sealing		
36354-3/4	G 3/4" x R 1/2"	-/200		
36354-1	G1" x R3/4"	-/ 8o		
36354-11/4	G 1½" X R 1"	-/ 50		
36354-11/2	G 1½" X R 1¼"	-/ 50		
With male thread	With male thread/male thread, equal, flat sealing			
36355-1/2	G1/2", L= 28 mm, WS 21	15/300		
36355-3/4	G 3/4", L= 29 mm, WS 27	10/200		
36355-1	G1", L= 31 mm, WS 34	10/100		
36355-11/4	G ₁ ¹ / ₄ ", L= 36 mm, WS 42/6	-/ 45		
36355-11/2	G ₁ ¹ / ₂ ", L= 40 mm, WS 48/8	-/ 50		





 $\mathbf{G} = \text{cylindrical}$

 $\mathbf{R} = \text{conical}$





General Terms and Conditions of Sale of puteus GmbH

Area of application, form

- 1. These General Terms and Conditions of Sale apply to all our business relationships with our Customers (hereinafter also referred to as Buyers). The General Terms and Conditions of Business apply only if the Buyer is an entrepreneur (Section 14 BGB (German Civil Code)), a legal entity under public law or a special fund under public law.
- 2. The General Terms and Conditions of Business apply, in particular, to contracts for the sale and/or delivery of movable Goods ("Goods"), irrespective of whether or not we manufacture the Goods ourselves or purchase them from suppliers (Sections 433, 650 BGB). Unless otherwise agreed, the General Terms and Conditions valid at the time of the Buyer's order or, in any case, as stated in the version last communicated to the Buyer in text form, shall also apply as a framework agreement to similar future contracts, without us being required to refer to them again in each individual case.
- 3. Our General Terms and Conditions of Business apply exclusively. Any varying, con icting or supplementary general terms and conditions of business of the Buyer shall only become an integral part of the contract if and to the extent that we have expressly agreed to their validity. This consent requirement applies in all cases, for example including if the Buyer refers to their general terms and conditions of Business when placing an order and we do not expressly object to this.
- 4. Individual agreements (e.g. framework supply agreements, quality assurance agreements) and any information contained in our order con rmations, take precedence over the General Terms and Conditions of Business. In the case of doubt, trade clauses shall be interpreted in accordance with the Incoterms® issued by the International Chamber of Commerce in Paris (ICC), as stated in the version valid at the time of entering into the contract.
- 5. Legally relevant declarations and notications by the Buyer in relation to the contract (e.g. setting deadlines, providing notication of defects, withdrawal or reduction), as well as subsequent amendments to the contract, are subject to the written form. The written form within the meaning of these General Terms and Conditions of Business includes written and text form (e.g. letter, e-mail). This does not affect statutory formal requirements or further proof, in particular in cases of doubt regarding the legitimacy of the party issuing a statement. 6. References to the validity of statutory provisions are for clari cation purposes only. Even without such clari cation, the statutory provisions shall, therefore, apply, unless they are directly amended or expressly excluded in these General Terms and Conditions of Business.

Section 2 Entering into a contract

- 1. Our offers are subject to change without notice and are non-binding, unless they are expressly marked as having binding force or contain a speci c acceptance period. Our Customer may accept orders or contracts within 14 days of receipt.
- 2. Information made available by us regarding the subject matter of delivery or service (e.g. weights, dimensions, utility values, load-bearing capacity, tolerances and technical data or data sheets), as well as representations thereof (e.g. drawings and illustrations), are only approximate, unless the usability for the contractually agreed purpose requires precise approximate, unless the saminy for the contractually agreed purpose requires precise conformity. They are not warranted characteristics, but descriptions or identications of the delivery. Standard variations and variations due to legal regulations or technical improvements, as well as the replacement of parts with equivalent parts, are permissible, provided they do not impair the usability for the contractually intended purpose. Public statements (e.g. advertising statements, general promotions) made by us or other third parties (e.g. manufacturers) do not constitute an agreement regarding the quality and in particular (e.g. manufacturers) do not constitute an agreement regarding the quality and, in particular, do not contain any promise of guarantee.
- 3. The written contract, including these General Terms and Conditions of Business, is solely authoritative in respect of our legal relationship with the Buyer. This fully re ects all agreements between us and our Customer regarding the subject matter of contract. Verbal commitments made by us prior to entering into the contract are not legally binding, and verbal agreements between us and the Buyer shall be replaced by the written contract, insofar nothing to the contrary is expressly agreed between us and the Buyer in each case. Supplementary information or amendments to the agreement entered into, including these General Terms and Conditions of Business, are subject to the written form in order to be deemed valid. Telecommunication transmission, e.g. by e-mail, is suf_cient to safeguard the written form requirement.
- 4. The order of Goods by the Buyer applies as a binding contractual offer. Insofar as nothing to the contrary is speci ed in the order, we shall be entitled to accept this contract offer within 4 weeks of receiving it. Acceptance may be stated either in writing (e.g. by order con rmation) or by delivering the Goods to the Buyer

Section 3 Samples, product data

- 1. Delivered samples shall be invoiced at the contract prices and are to be remunerated.
- 2. The provisions of Section 454 BGB (purchase on trial basis) do not apply to the provision of
- Insofar as we make product data available to our Customers (e.g. drawings, technical data, data sheets, calculations and estimates) for products purchased by them, such product data may only be used and referenced in direct connection with the sale or resale of the products purchased from us. Furthermore, product data is subject to strict con dentiality. The same applies to visual representations and images (uniformly referred to as representations) that we provide or make available (e.g. on the internet or on our homepage).
- 4. We expressly prohibit the use of our product data and/or representations thereof to advertise competing products. Using our product data and representations beyond the scope of the distribution of our products for technical and/or sales-related purposes of any kind is similarly prohibited.

Section 4 Delivery period, force majeure, delay in delivery, partial deliveries

- 1. The delivery period shall be agreed individually or speci ed by us upon acceptance of the order. The periods and dates we state for deliveries and services are always only approximate, unless a xed period or date has been expressly agreed. If we are unable to meet binding delivery periods for reasons for which we are not responsible (non-availability of the service), we shall inform the Buyer of this without delay and simultaneously provide notication of the expected new delivery period. The delivery period shall be deemed to have been complied with if, by the end of this period, the Goods have left our factory, or we have notied the Customer that they are ready for dispatch. If shipment has been agreed, delivery periods and delivery dates refer to the time of handover to the forwarding agent, carrier or other third party commissioned with the transport operation.
- 2. With regard to the start of the delivery period, it is taken for granted that all technical questions have been clari ed.
- 3. We may demand that Customers extend delivery periods or postpone delivery dates by the period during which our Customer fails to ful 1 their contractual obligations to us (e.g. failure to cooperate properly in the case of sampling).
- 4. We shall not be liable for the impossibility of delivery or for delays in delivery insofar as these are attributable to force majeure or other events that were not foreseeable at the time of entering into the contract (e.g. operational disruptions of any kind; dif culties in procuring materials or energy; transport delays; strikes; lawful lockouts; shortages of labour, energy or raw materials; dif culties in obtaining necessary of cial approvals; pandemics or epidemics; of cial measures or the non-delivery, incorrect delivery or late delivery by suppliers despite a congruent covering transaction entered into by us) for which we are not responsible. We shall be entitled to withdraw from the contract if such events render delivery or performance signi cantly more dif cult or impossible for us, and the hindrance is not only temporary. In the event of temporary obstacles, the delivery or service deadlines shall be extended, or the

- delivery or service dates postponed by the duration of the hindrance plus a reasonable start-up period. If the Buyer cannot reasonably be expected to accept the delivery or service as a result of the delay, they may withdraw from the contract by notifying us in writing without delay.
- 5. We are only entitled to make partial deliveries if (i) the partial delivery is usable for the Buyer as part of the contractual purpose, (ii) delivery of the remaining ordered Goods is ensured, and (iii) this does not result in signi cant additional expenditure or additional costs for the Buyer (unless we agree to bear such costs).
- 6. The occurrence of delay in the delivery on our part, it shall be determined in accordance with the statutory provisions, subject to the proviso that delay shall only occur after a written reminder and expiry of a reasonable additional period, insofar as a xed-date transaction does not apply.
- 7. This does not affect the Buyer's rights in accordance with Section 8 of these General Terms and Conditions of Business and our statutory rights, in particular in the event of an exclusion of the obligation to perform (e.g. due to impossibility or unreasonableness of performance and/or subsequent performance).

Delivery, call-off, transfer of risk, default in acceptance

- 1. Delivery shall be made ex works, which shall also be the place of performance for the delivery and any subsequent performance. The Goods shall be shipped to another destination (sales shipment) at the Buyer's request and expense. Insofar as nothing to the contrary is agreed, we shall be entitled to determine the type of shipment (in particular, the transport company, shipping route and packaging).
- 2. If delivery on call has been agreed, all call-offs must be made by the Buyer within 12 months of entering into the contract at the latest, insofar as nothing to the contrary is agreed in writing.
- 3. The risk of accidental loss of and accidental deterioration in the Goods shall pass onto to the Buyer upon delivery at the latest. In the case of sales shipments, the risk of accidental loss of and accidental deterioration in the Goods, as well as the risk of delay, shall pass onto the carrier, freight forwarder or other person or company designated to perform the shipment, at the time the goods are handed over If acceptance has been agreed, this shall be authoritative over the transfer of risk. In other respects, the statutory provisions of the law governing work and service contracts apply accordingly to an agreed acceptance. The handover or acceptance shall be deemed to have occurred if the Buyer defaults in acceptance.
- 4. If the Buyer defaults in acceptance, fails to cooperate or delays our delivery for any other reason for which the Buyer is responsible, we shall be entitled to demand compensation for the resulting damage, including additional expenses (e.g. storage costs). The same applies following the passing of risk. If we store the Goods, the storage costs shall be 0.25% of the invoice amount of the delivery items for each full week that they are stored. This does not affect proof of higher damages and our legal claims (particularly reimbursement of additional expenses, reasonable compensation, termination). The asserted storage costs are to be counted towards further-reaching monetary claims. The Buyer is entitled to furnish proof that we have incurred no damage at all, or only signi cantly less damage than the value of the above lump sum.
- 5. We shall only insure the shipment against theft, breakage, transport damage, re and water damage or other insurable risks at the Buyer's express request and expense.
- 6. The Buyer undertakes to return to us free of charge any reusable packaging we use. In the absence of statutory regulations to the contrary, disposable packaging must be disposed of by the Customer at their own expense.
- 7. If acceptance is required, the object of sale shall be deemed accepted if Delivery has been completed, We have notied the Buyer of this with reference to the deemed acceptance in accordance with this sub-section, and requested the Buyer to accept the item, • 20 working days have passed since delivery, or the Buyer has started to use the object of sale (e.g. has further processed the delivered object of sale (e.g. installation in a building) or resold it) and, in this case, 10 working days have passed since delivery, and • The Buyer has failed to accept the Goods within this period for a reason other than a defect reported to us that renders using the object of sale impossible or signi cantly impairs such use.

 Section 6 Prices, terms and conditions of payment

- 1. Insofar as nothing to the contrary is agreed in individual cases, our prices in EUR valid at the Additional or special services shall be charged separately. Insofar as the agreed prices are based on our list prices and delivery is to occur more than four months after entering into the contract, our list prices valid at the time of delivery shall apply (in each case less an agreed percentage or xed discount).
- 2, a) In the case of sales shipments, the Buyer shall bear the transport costs ex works and the cost of any transport insurance requested by the Buyer. **b)** Any customs duties, fees, taxes and other public charges shall be borne by the Buyer.
- 3. The purchase price falls due and is payable within 14 days of invoicing and delivery or acceptance of the Goods.
- 4. The Buyer shall be in default upon expiry of the above payment period. During the period of default, interest shall be charged on the purchase price at the applicable statutory default interest rate (9 percentage points above the base rate in accordance with Section 288 (2) BGB). We reserve the right to assert a claim for further-reaching damage caused by default. This does not affect our claim to commercial interest on arrears (Section 353 HGB (German Commercial Code)) in dealings with merchants.
- 5. The Buyer shall only be entitled to set-off or retention rights, insofar as his claim has become res judicata, is recognised, is undisputed, or results from the same contract under which the affected delivery was made.
- 6. If, after entering into the contract, it becomes apparent (e.g. as a result of an application led for the institution of insolvency proceedings) that our claim to the purchase price is at risk due to the Buyer's inability to pay, we shall be entitled to refuse performance in accordance with the statutory provisions and, if necessary, withdraw from the contract after setting a period (Section 321 BGB). In the case of contracts for the manufacture of non-fungible Goods (custom-made/one-off products), we may state our withdrawal immediately. This does not affect the statutory provisions regarding the dispensability of setting a period. In the event of late payment, we shall be entitled to withhold further deliveries until outstanding invoice amounts, including interest, have been settled.

Section 7 Reservation of title, tools

- 1. We shall retain ownership of the sold Goods up until all our current and future claims, resulting from the purchase contract and an ongoing business relationship (secured claims), have been paid in full.
- 2. The reserved Goods may not be pledged to third parties or transferred as security before the secured claims have been paid in full. The Buyer is to notify us without delay in writing if an application is led for the institution of insolvency proceedings. The same applies in the event of an application for insolvency under self-administration or proceedings under the StaRUG (German Act on the Restructuring of Companies) or insofar as third parties (e.g. seizures) gain access to the Goods in our possession.
- 3. In the event of a breach of the contract by the Buyer, in particular non-payment of the due purchase price, we shall be entitled to withdraw from the contract in accordance with the statutory provisions and/or demand the return of the Goods as a result of the reservation of title. The demand for surrender does not simultaneously include a statement of withdrawal. Rather, we are entitled to demand only the return of the Goods and reserve the right to withdraw. If the Buyer fails to pay the due purchase price, we may only assert these rights if we have previously set the Buyer a reasonable period for payment in vain, or if such a period is dispensable according to the statutory provisions.



4. Until withdrawn in accordance with sub-section c) below, the Buyer shall be authorised to resell and/or process the reserved Goods in the ordinary course of business. In such a case, the following provisions apply in addition. The Customer shall store the Goods for us free of charge and shall be liable for the proper condition of the Goods. a) The reservation of title extends to the full value of the products created by processing or combining our Goods, whereby we are deemed the manufacturer. If the third party's ownership rights remain in force in the event of processing or combining with third party Goods, we shall acquire co-ownership in proportion to the invoice values of the processed, mixed or combined Goods. In other respects, the same shall apply to the resulting product as what applies to the delivered reserved Goods. b) The Buyer hereby assigns to us as security all claims against third parties resulting from the resale of the Goods or products, either in full or in the amount of our potential co-ownership share, in accordance with the above sub-section. We accept the assignment. The Buyer's obligations referred to in sub-section 2 also apply with regard to the assigned claims. c) The Buyer remains authorised to collect the claim alongside us. We undertake not to collect the claim, as long as the Buyer meets his payment obligations to us, there are no shortcomings in respect of his ability to pay and, we do not assert our reservation of title by exercising a right in accordance with sub-section 3. However, if this is the case, we may demand that the Buyer informs us of the assigned claims and their debtors, makes available all information necessary for collection, hands over the relevant documents, and informs the debtors (third parties) of the assignment. In addition, we shall be entitled in such a case to withdraw the Buyer's authority to resell and process the reserved Goods. (d) If the realisable value of the securities exceeds our claims by more than 10%, we shall release securities of our choice at the Buyer's request.

5. a) Tools shall not become the Buyer's property, including if full costs are charged. They remain our property, unless expressly agreed otherwise. **b)** We draw attention to the fact that we shall scrap or otherwise recycle tools two years after the last parts have been manufactured.

Buyer's warranty claims

1. Insofar as nothing to the contrary is specified below, the statutory provisions shall apply to the Buyer's rights in the event of material defects and defects in title, including incorrect or short delivery or faulty instructions. In all cases, this does not affect the special statutory provisions governing the sale of consumer Goods (Sections 474 et seq. BGB) or the Buyer's rights resulting from separately issued guarantees.

2. Our liability for defects is based primarily on the agreement entered into regarding the quality and intended use of the Goods. All product descriptions and manufacturer speci cations that are the subject matter of the individual contract shall be deemed to be speci cations that are the subject matter of the individual contract shall be deemed to be quality agreements in this sense. If the quality has not been agreed, the statutory provisions shall be used to assess whether or not a defect applies (Section 434 (3) BGB). We accept no liability for public statements made by the manufacturer or other third parties (e.g. advertising claims). 3. The warranty shall lapse if the Buyer modi es the delivery item or has it modi ed by third parties without our consent, and this renders it impossible or unreasonably dif cult to rectify the defect. In any case, the Buyer shall bear the additional cost of rectifying the defect resulting from the modi cation.

4. We are generally not liable for defects that the Buyer is aware of at the time of entering into the contract or is unaware of due to gross negligence (Section 442 BGB). Furthermore, in the case of the Buyer's claims for defects, it is taken for granted that the Buyer has ful lled his statutory obligations to inspect and provide noti cation of defects (Sections 377, 381 HGB). In the case of Goods intended for installation or further processing, an inspection is to be performed without delay at all times prior to installation/processing. If a defect becomes apparent upon delivery, inspection, or at any subsequent time, we are to be noti ed of this in writing without delay. In any case, written noti cation of obvious defects is to be provided within seven working days of delivery, and written noti cation of defects that are not apparent upon inspection is to be provided within the same time period once such defects are identi ed. If the Buyer fails to conduct the proper inspection and/or provide notication of defects, our liability for defects for which notication is not provided, is not provided in good time, or is not properly provided, is excluded in accordance with the statutory provisions. In the case of Goods intended for tting, attachment or installation, this shall also apply if the defect only became apparent after processing as a result of a breach of one of these obligations. In such a case, the Buyer shall have no claims for reimbursement of corresponding costs ("Dismantling and installation costs").

5. a) If the delivered item is faulty, we may initially choose whether or not to provide subsequent performance by eliminating the fault (subsequent improvement) or by delivering a fault-free item (substitute delivery). If the type of subsequent performance chosen by us is unreasonable for the Buyer in individual cases, the Buyer may reject it. This does not affect our right to refuse subsequent performance under the statutory conditions. At our request, an existing delivery item is to be returned to us carriage paid. In the event of a justi ed complaint, we shall reimburse the costs of the cheapest shipping method. However, this shall not apply if the costs are increased by the fact that the delivery item is located at a place other than the place of intended use. **b)** In the event of defects in Goods from other manufacturers, which we are unable to rectify for licensing or practical reasons, we shall be entitled, at our discretion, to assert our warranty claims against the manufacturer or Supplier at the Buyer's expense or assign them to the Buyer. Warranty claims against us for such defects shall only apply under the other conditions and in accordance with these General Terms and Conditions of Business if the legal enforcement of the aforementioned claims against the manufacturer or Supplier was unsuccessful or offers no prospects of success, for example, due to insolvency.

6. We are entitled to render the required subsequent performance dependent on the Buyer paying the due purchase price. However, the Buyer is entitled to retain a portion of the purchase price that is proportionate to the defect.

7. The Buyer is to grant us the time and opportunity required to rectify the defect, in particular, to hand over for inspection the Goods for which a complaint has been lodged. In the event of a substitute delivery, the Buyer is to return the faulty item to us at our request in accordance with the statutory provisions. However, the Buyer has no right to demand a return. Subsequent performance shall neither include the removal, dismantling or uninstalling of the faulty item, nor the tting, attachment or tting of a non-faulty item, if we did not originally undertake to render these services. This does not affect claims by the Buyer for reimbursement of corresponding costs ("Dismantling and installation costs").

8. We shall bear or reimburse the expenses required for the purpose of inspection and subsequent performance, in particular transport, travel, labour and material costs and, where applicable, removal and installation costs, in accordance with the statutory provisions and these General Terms and Conditions, if a defect actually exists. Otherwise, we may demand reimbursement from the Buyer for the costs incurred as a result of the unjusti ed request to rectify the defect, if the Buyer knew or could have realised that in fact no defect existed.

9. In urgent cases, e.g. if operational safety is at risk or to prevent disproportionate damage, be Buyer has the right to rectify the defect himself and demand that we reimburse him for the objectively required expenses incurred in that regard. We are to be notified without delay, if possible, in advance, of any such action taken by the Buyer. The right to independently take such action shall not apply if we were entitled to refuse corresponding subsequent performance in accordance with the statutory provisions.

10. If a reasonable period set by the Buyer for subsequent performance has expired in vain, or is dispensable according to the statutory provisions, the Buyer may withdraw from the purchase contract or reduce the purchase price in accordance with the statutory provisions. However, there is no right of withdrawal in the case of an insigni cant defect.

11. The Buyer's claims for reimbursement of expenses in accordance with Section 445a (1)

BGB are excluded, unless the last contract in the supply chain is a consumer Goods purchase (Sections 478, 474 BGB). The Buyer's claims for damages or reimbursement of expenses in vain (Section 284 BGB) shall only exist in the event of defects in the Goods in accordance with the following provisions in Section 9 and Section 11.

12. In the case of the sale of used movable items, rights resulting from defects and all claims for damages are excluded. The above provisions on the exclusion of claims for damages in the case of used Goods neither apply to damage resulting from loss of life, physical injury or detrimental effects on health if we are responsible for the breach of duty, nor to other damage resulting from an intentional or grossly negligent breach of duty on our part. Breaches of duty by our legal representatives or vicarious agents are deemed equivalent breaches. This does not affect claims in accordance with the German Product Liability Act or the assumption of a

Section 9 Other liability

1. Insofar as nothing to the contrary is speci ed in these General Terms and Conditions of Business, including the following provisions, we shall be liable for any breach of contractual and non-contractual obligations in accordance with the statutory provisions.

2. We shall be liable for damages – irrespective on whichever grounds these apply, – as part of fault-based liability in cases of intent and gross negligence. In cases of simple negligence, we shall only be liable, subject to statutory limitations of liability (e.g. diligence in our own affairs; insigni cant breach of duty), a) for damages resulting from the loss of life, physical injury or detrimental effects on health, b) for damages resulting from the breach of an essential contractual obligation (an obligation the ful lment of which is essential for the proper execution of the contract and on whose compliance the contractual partner regularly relies and may rely). However, in such a case, our liability is limited to compensation for foreseeable, common damage.

foreseeable, common damage.

3. The limitations of liability resulting from sub-section 2 shall also apply to third parties and in the event of breaches of duty by persons (including for their bene t) for whose fault we are responsible under statutory provisions. The above exclusions and limitations of liability apply, in particular, to the same extent in favour of our executive bodies, legal representatives, employees and other vicarious agents. They shall neither apply in cases in which a defect has been fraudulently concealed, or a guarantee has been provided for the quality of the Goods, nor shall they apply to claims by the Buyer in accordance with the German Product Liability Act.

4. In the event of a breach of duty that does not constitute a defect, the Buyer may only withdraw from the contract or terminate it if we are responsible for the breach of duty. The Buyer's right to arbitrarily terminate the contract (in particular in accordance with Sections 650 and 648 BGB) is excluded. In other respects, the statutory requirements and legal consequences apply

Section 10 Industrial property rights, copyrights

1. In accordance with this Section 10, we provide a guarantee such that the delivery item is free from third party industrial property rights or copyrights. Each contracting party shall notify the other without delay in writing if claims are asserted against them for the infringement of such rights.

2. In the event that the delivery item infringes a third party's industrial property right or copyright, we shall, at our discretion and expense, modify or replace the delivery item in such a way that no third party rights are infringed, but the delivery item continues to ful I the contractually agreed functions, or procure the right of use for the Buyer by entering into a licensing agreement with the third party. If we do not succeed in doing so within a reasonable period of time, the Buyer shall be entitled to withdraw from the contract or reduce the purchase price appropriately. Any claims for damages by the Buyer are subject to the limitations of these General Terms and Conditions of Business.

3. We reserve the right of ownership and copyright to all offers and cost estimates we submit, as well as any documents made available to our Customers, such as drawings, technical data, data sheets, illustrations, calculations, catalogues, models, tools and other documents and aids. The Customer may not make such items or documents available to third parties, disclose them, use them himself or via third parties, or reproduce them without our express consent. At our request, our Customer is to return the items to us in full and destroy any copies made if they are no longer required by the Customer in the ordinary course of business, or if negotiations do not result in the parties entering into a contract. This does not apply to the storage of data made available electronically for the purpose of standard data back-up.

4. If we manufacture according to the Buyer's instructions, or render services according to their speci cations, the Buyer undertakes – contrary to the preceding sub-sections – to indemnify us and, as part of a contract for the bene t of third parties, our suppliers against any third party claims resulting from infringements of property rights/copyrights and the like that are asserted against us.

Section 11 Statute of limitations

 Irrespective of Section 438 (1) No. 3 BGB, the general limitation period for claims resulting from material defects and defects of title is one year from delivery. If acceptance has been agreed, the limitation period shall commence upon acceptance.

2. If the Goods are items that have been used for a building in accordance with their normal use and have caused its faulty nature, the limitation period shall be 5 years from delivery in accordance with the statutory provision (Section 438 (1) No. 2 BGB). Similarly, this does not affect other special statutory provisions on the statute of limitations (in particular Section 438 (1) No. 1, (3), Sections 444, 445b BGB).

(1) No. 1, (5), Sections 444, 4450 BGB).

The above limitation periods under sales law also apply to contractual and non-contractual claims for damages by the Buyer based on a defect in the Goods, unless application of the regular statutory limitation period (Sections 195, 199 BGB) would lead to a shorter limitation period in individual cases. The Buyer's claims for damages in accordance with Section 9 (2) Sentence 1 and Sentence 2 a), and in accordance with the German Product Liability Act, shall fall under the statute of limitations exclusively in accordance with the statutory limitation periods.

Section 12 Reservation of title

1. Executing the contract is subject to the proviso that no obstacles arise due to government sanctions or other delivery restrictions under foreign trade law, and that no embargo or other sanctions prevent delivery. The Buyer undertakes to furnish information and documents required for delivery or import.

2. This does not affect the provision in Section 4 (4) (force majeure and self-supply etc.)

Section 13 Choice of law, place of jurisdiction, contract language 1. The law of the Federal Republic of Germany, excluding international uniform law, in particular

the UN Convention on Contracts for the International Sale of Goods (CISG), applies to these General Terms and Conditions and the contractual relationship between us and the Buyer.

2. German is deemed the contract language.

3. If the Buyer is a merchant within the meaning of the German Commercial Code, a legal entity under public law or a special fund under public law, our registered of ce shall be deemed the exclusive – including international – place of jurisdiction for all disputes resulting directly or indirectly from the contractual relationship. The same applies if the Buyer is an entrepreneur within the meaning of Section 14 BGB. However, in all cases we shall also be entitled to bring legal action at the place of performance of the delivery obligation in accordance with these General Terms and Conditions of Business or a prior individual agreement, or at the Buyer's general place of jurisdiction. This does not affect legal provisions that have priority, in particular those relating to exclusive competences.

puteus GmbH, Lenenweg 6, D-47918 Tönisvorst

as of 2025

TECHNICAL INFORMATION

Size and weight

Unless otherwise stated, all dimensions are in millimeters (mm) and weights are in grams (g).

PN = nominal pressure in bars 1 bar 10N / cm² => ca. 10 m column of water

DN = nominal diameter in inches or mm 1" = 25,4 mm => ca. 25 mm

Nominal pressure is the maximum applicable pressure at the standard temperature, which, unless otherwise stated, is 20°C.

Nominal diameter is the excess pressure when all operational conditions are taken into consideration, including pressure surges. It depends on the operating temperature, the medium, the size of the component/valve, and, where applicable, the type of seal.

There are legal provisions or regulations that apply to certain areas of application and that take precedence over the guidelines provided in this catalog.

Medium

The details presented in this catalog with respect to pressure and temperature conditions refer to water.

Suitability for gases, oils, or glycolic or other media should be investigated in light of the operating pressure and operating temperature. Our applicability information may not be applied to media or operating conditions other than those that have been approved without our clearance.

Custom models

If there are no articles in our standard program that are suitable for your needs, we can also create custom models upon request. For this, we would need a detailed letter of inquiry with the corresponding number of units as well as drawings or sample parts.

Installation instructions

A)Screw thread

Connection dimensions and screw thread of complementary proportions must always be selected.

The screw thread should not be too strongly sealed with hemp or sealing tape, which is to say that after the hemp has been applied, the crest of the thread must still be visible. Sealing the thread too strongly will increase the pressure in the component. Over time, that pressure can cause cracks.

To avoid causing damage during installation, the components should be conventionally screwed in with the appropriate, customary tools, without ex cessive force and without lever extension.

Self-sealing valves must not be sealed further with hemp or sealing tape. The corresponding mating thread must be of sufficient length (min. 12 mm). Where applicable, components are only to be installed on the spanner flats provided for that purpose by means of a suitable spanner/pliers. Our products must be installed without tension in due consideration for the information above. Alignment, e.g., of connections that we provide by means of heating appliances, is prohibited because this can also cause tension cracks and secondary damage later on.

Where applicable, connecting different metals or alloys can cause corrosion, for which puteus GmbH cannot be held liable (e.g., connections between brass and stainless steel or copper with zinc-plated metals). These characteristics are to be checked before our products are installed. The components' pressure and sealing are to be carefully tested after installation. Where applicable, the installation instructions that are enclosed with the components are to be observed when doing so.

B) Gate valve

After disassembly/repairs/maintenance work, the upper section is only to be reassembled with a raised sealing wedge. Do not damage sealing surfaces/key seats. Sealing wedges cannot be replaced.

C) Socket slide valve

These must only be installed in closed position. Key seats must not be damaged by screwing in pipes by force.

D) Ball valves

To ensure operability, for example, only set ball valves on very low static and dynamic power. Where applicable, the component should be supported by appropriate measures (e.g., pipe clamps or similar). The torque to be applied to the ball valve must only be applied to the spanner flats at the end that is being screwed in, otherwise there is a risk that the ball valve could be unsealed or cracked. Likewise, bodies and ball valve screwing components must not be screwed against one another. Doing so would also cause leaks and/or the risk of breakage.

E) Pipe and hose connections

According to DIN EN 1717 pipe and hose connections for devices that contain non-potable water (e.g. washing machines) must be connected to a water intake using a backflow preventer to avoid any backflow of polluted water into the potable water line.

Recommendations for the use of ball valves

1. General information

Ball valves serve as shut-off valves for pressurized media. The manufacturer's information on flow media, operating pressure and temperature range must be respected. Using other than approved media may shorten the ball valve 's lifespan or lead to a failure of the ball valve.

The installation may only be carried out in systems with equal pressures. Any possible pressure surges due to the quick-lock system must be taken into account as these may damage the piping system. The valve can be opened and closed by a 90° turn of the lever, intermediate positions of the lever are not allowed during the operating condition.

Ball valves should be stored in a dry place, free of dirt and without direct sunlight.

2. Installation and removal instructions

Ball valves may only be used in compliance with the requirements for their intended use. The installation must be carried out stress-free and with appropriate tools in a pressure less state only by qualified and trained staff. Do not turn the ball valve forcibly and do not use it to align the pipeline. The ball valve must be checked for damage before installation. Plumbing lines must be rinsed before first commissioning after maintenance and repairs.

Do not clamp the ball valve too tightly in a vise or something similar for pre-assembly in order to avoid damage and stress cracks on the body. According to the general installation instructions you must not seal the threads with too much hemp. The tips of the threads must remain visible. When in stalling the ball valve only use the designated spanner flat at the installation side to apply the counter-torque. Never apply the wrench to the body or to the side opposite of the installation side. Do not exceed the recommended tightening torque, any existing sensor plugs must be tightened to 15 Nm.

The handle must not be used as a mounting lever.

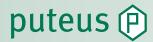
The use of quarter-turn ball taps is only allowed with free outflow to avoid a backflow of sewage into the pipeline. Quarter-turn ball taps are not suitable for the use in domestic water-pipe systems or as device connection taps. It is necessary to carry out functional and leak tests after installing and before the ball valve is put into operation for the first time.

3. Commissioning

Operating conditions and installation works must be checked again before commissioning. Notice: Due to a long-term storage or long downtimes the release torque may be much higher than the usual turning moment.

Before initial start-up or putting into operation after maintenance work the pipeline has to be deaerated. In case of pressure surges air bubbles may cause explosions or damages to the piping system. Therefore the pressure should only be slowly increased.

Ball valves at the end of a pipeline must be sealed professionally with a blind flange to avoid the valve being forcibly teared off. Caution! Danger! The ball valve may not be operated with a tool that shall serve to increase the leverage (e.g. hammer, pliers, extension tubes etc.)



4. Maintenance and inspection

Depending on the assembly situation, ball valves have to be drained before the first frost sets in as well as before cleaning works. When emptying the valve the handle should be in a 45-degree-position to make sure that the dead space may be emptied, too. Tests for tightness, functionality and damages should be carried out regularly. Depending on the operating situation this should be done in shorter time intervals. During long periods of disuse the ball valve should be put into operation every few months to guarantee proper functioning.

Defective or corroded valves or valves that do not work properly must be replaced during maintenance work. Replacement and removal may only be carried out by qualified personnel whilst the pipeline is not under pressure.

5. Warnings

The manufacturer will not accept any liability for deficiencies caused by assembly errors, improper handling, the use of impermissible media or not allowed operating situations as well as for damages due to normal wear and tear.

Ball valves may not be used as throttle valves! They may only be used in a fully opened or closed situation to avoid damages to seals in the spherical area. Depending on the operating situation the ball valve's body can get very warm. Caution!

Legal health and safety regulations, national rules and technical rules and standards for certain operating and mounting situations have to be observed Viscous fluids or hardenable media as well as certain chemical substances may impede the funcion or make it impossible. Please refer to the manufacturer's information.

Polluted or sandy media may cause damages to the seals. In case of neglecting the given information on working pressure or working temperature leaks may occur or the ball valve may tear apart. Caution! (as of November 2023)

Further Information:

Unless otherwise indicated or unless they are provided with drain plugs that are used to empty the valve before the frost season, no valves (taps, check valves, foot valves, gate valves, ball valves, etc.) are frost-resistant.

Our ball valves, valves and fittings have to be installed without mechanical tension. They must not be used for adjusting pipings.

Chrome plated surfaces, e.g., on bathroom fixtures or device connector valves, are sensitive to lime-dissolving agents, acidic cleaners, and all types of abrasives. These surfaces must only be cleaned with clear water and a soft cloth (leather).

Our pumps, wall and standing fountains are provided with a protective coating for transport purposes by the manufacturer. This first layer of paint is not considered to be a permanent corrosion protection or optical coating.

We offer no guarantee for wearing parts in the event of corrosion or malfunction due to very hard water or contaminated water lines (e.g., with respect to sealing or mixing jets) or due to improper assembly; chemical or mechanical events during transportation, storage, connection, repair, or use; or improper handling of products.

We provide the statutory guarantee for defects in our products that arise due to material or manufacturing defects or through normal use. Defects due to non-observance of the information above are excluded from that guarantee.

Previous documents cease to be valid upon publication of the catalog. Our catalog serves exclusively as a basis for wholesale, industrial, and technical information and work. It is not a sales document.

Returns are only permitted based on prior written agreement; this particularly applies to custom production. Return deliveries that are not prepaid will not be accepted.

Recommendations for the handling of hoses

A number of factors can have an impact on how long the hose lasts:

- application
- medium
- abrasion
- storage etc.

Therefore it is not possible to give a general information about the durability of a hose. The end user should regularly check the hose for leaks and replace it if necessary.

The rubber compound can change its characteristics over time because of its chemical properties. This process can be accelerated by improper use of the hose or other influences. Therefore we give the following recommendations:

Storage

- 1. Avoid long storage periods! Otherwise, a check is important at the 1st use.
- 2. Ideally you should store the hose at a temperature between +10°C and +25°C. Temperatures of less than o°C or more than +40°C will damage the hose. Keep the hose away from all sources of heat! Avoid dry air as well as high air humidity!
- 3. No direct solar radiation or aggressive artificial light!
- 4. Airflow and ozone can ruin the material. Do not store near electric motors, high-voltage units etc. because of the danger of sparks or electrostatic charge or uncontrolled heating of eventually mounted metal couplings.
- 5. Different substances can affect the material of the hose. Therefore please avoid any contacts with: solvents, fuels, acids, disinfectants, wood preservers, volatile or organic chemical substances or mixtures. Manganese, iron, copper and copper alloys may affect some kinds of rubber mixtures.
- 6. Store loosely rolled and stress-free to avoid compressing the tube. Coiled hose should be stored in a horizontal position. Do not pile up and pay attention to the weight to avoid any deformations! If given by the supplier, please note the minimum bend radii to prevent kinks.
- 7. Check the hose for suitability and proper seat of mounted couplings before delivery or resale.
- 8. Clean the hose before re-storage (please check suitability of the cleaning agent!). This applies particularly in case of the use of chemical, explosive or abrasive materials. Checks for reusability are essential.

Use

- $\textbf{1.} \quad \text{Hoses should only be used in accordance to their intended purpose. The misuse} \textbf{e.g. as towing rope} \textbf{is not allowed.}$
- 2. Before using the hose you have to check its suitability with regard to its characteristics, type or size.
- 3. Exercise due diligence when transporting the hose. The hose may not be exposed to severe shocks or tensile forces across rough surfaces. Avoid twisting, kinks and knots.
- 4. Please note the mentioned operating pressures! If checking the hose for leaks, the pressure in a hose free of air bubbles must only be increased gradually until the maximum pressure is reached.
- 5. The hose has been developed to channel liquids which are approved by the manufacturer. This does not give the permission to immerse the hose in the liquids.
- 6. Please note the ambient temperature and the maximum operating temperature which depend on the medium. Keep hose line away from sources of heat!
- 7. The material of the hose must be resistant to all media used. Check this before use. Changes in the concentration of media, period of use or temperature may cause changes in the suitability and chemical resistance of the hose.
- 8. Varying degrees of abrasion may occur depending on the kind of medium used or pulling the hose across different surfaces. Therefore you have to control the wear and tear of the tube regularly.



- 9. Make sure that installed hoses and hose connections are protected against impurities to avoid a contamination of hose and medium; particularly when used with drinking water.
- 10. Do not install hose lines on driveways or rather protect them against running over. If necessary, use hose bridges or the like.
- 11. Mounted hose fittings or spray nozzles should not be used as end or shut-off valves as they are not constructed for that purpose. Do not expose them to a permanent water pressure to prevent the valve/nozzles from being torn off and/or avoid bursting of the hose. After finishing work the water supply to the hose has to be shut off.

Assembly and commissioning of hose lines in technical fields

Please note:

- 1. When using hoses fitted with connectors, ensure that they are the correct length. An extension through the use of several connecting hoses is not permissible.
- 2. Before putting a hose line into operation please check if it is in accordance with eligible regulations and directives, e.g. the instructions of the Trade Association Too2,§§14 and 15; the Industrial Safety Regulation (BetrSichV) or the Technical Rules for operating safety (TRBS).
- 3. Do not use a hose line if there are any visible damages!
- 4. Hose lines with given inspection intervals may not be used when the inspection date has expired. After repair or modification the hose line must be checked.
- 5. The hose line must be cleaned before putting it into operation. Do not forget to check the suitability of the cleaning agent!
- 6. With regard to electrostatic discharge the following instructions have to be observed: TRBS 2153 ("Avoiding of ignition hazards due to electrostatic charges")
- The hose line must be cleaned when changing from one to another flow medium to avoid a possible chemical reaction or contamination of the new medium.
- 8. For special applications or construction projects, it is essential to comply with the manufacturer's instructions.

Disposal

Please follow local regulations if you want to dispose hose materials and/or hose fittings.

Legal information: According to the Drinking Water Ordinance [esp. §§ 3 and 17], every tapping point of water that is not intended for human use must be permanently marked with a notice "no drinking water" and safeguarded against inappropriate use!

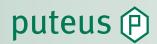
Tapping systems for non-drinking water that are installed in the household in addition to the drinking water supply system must be reported to the health authority!

Specifications and illustrations as well as descriptions and packing units are non-binding. They are purely informational and no legal obligation may be derived from them.

We reserve the right to make technical and formal changes in the interest of further technical development or that are necessary for financial reasons. Alterations and additions are made continuously.

We assume no liability for any printing errors or divergent illustrations. In the event of erroneous size information, the figures at the start of printing will no longer apply.

Conversion table inch/millimetre			
inch fractional value	mm metric	inch fractional value	mm metric
1/8"	3,175 mm	1 3/4"	44,450 mm
1/4"	6,350 mm	2"	50,800 mm
3/8"	9,525 mm	2 1/4"	57,150 mm
1/2"	12,700 mm	2 1/2"	63,500 mm
5/8"	15,875 mm	2 3/4"	69,850 mm
3/4"	19,050 mm	3"	76,200 mm
7/8"	22,225 mm	3 1/4"	82,550 mm
1"	25,400 mm	3 1/2"	88,900 mm
1 1/4"	31,750 mm	3 3/4"	95,250 mm
1 1/2"	38,100 mm	4"	101,600 mm





We keep an eye on our qualities:

Both our quality and environmental management system have been certified on the standard basis DIN EN 9001 (Nov. 2015) and DIN EN 14001 (Nov.2015). We face the challenge to guarantee highest qua-lities for our products and services. All raw materials and external products are checked for quality and suitability. Our own products are tested on a random basis during the production processes, final lea-king and material tests are performed.

Our products meet several requirements, such as DVGW, SVGW, KTW, noise class tests (PA-Nr.), ACS and are also complying with binding DIN standards in respect to dimensions or noise behaviour.

With regard to the brass alloy puteus valves, fittings and the seals we use are in full compliance with the amended requirements of the drinking water ordinance. Long before the reference date in April 2017 we made sure that the regulations of the valuation basis of the Federal Environmental Agency (UBA) were implemented. These regulations apply to metallic materials which may get in contact with drinking water. They also include the list of materials that are in accordance with the drinking water hygiene (known as the "UBA Positive List"). On the basis of these standards our quality management has also been certified for the process to comply with the nickel values

for valves, fittings and other components in drinking water under the terms of the drinking water regulations and recommendations of the Federal Environmental Agency.

Therefore we can ensure a high product quality for our customers because of our high quality awareness.

LGAI





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AUSTRIA

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Our packaging and labelling proposals

Four-colour cartons – version 1 –

with Euro-standard-holes, colour prints and product descriptions on the front-side, pictographs and installation dimensions on the back, top and bottom. Items that are available in carton packaging can be found in our catalogue. The item numbers are marked with an additional "-K".



Four-colour cartons – version 2 –

Promotional four-colour cartons with product photos and descriptions.



Labels with EAN-barcodes

Nearly all articles can be labelled with EAN-codes. The self-adhesive and tear-resistant labels contain a product description, barcode and EAN-code.

The complete EAN-code consists of:

4012167 + item-no. + verification digit (without "-E" or other extensions).



Self-service cards

These cards can be used for certain products of the irrigation sector. The cards are printed with article descriptions, sizes and EAN-codes.



Polybags

We offer customized polybags for single products. Each polybag can be printed according to your wishes.

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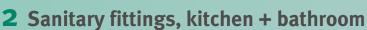












1 Appliance connection fittings











4 Fittings





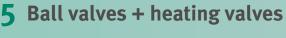
















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