

BOLLER

Product-Catalog Pipeline Technology

Product-Catalog

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and Flange Adaptors:**
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Technical Information

2

Wall Entrances

2 Wall Entrances

2.1 DW10

2.2 DW20

2.3 DW30

2.4 DW40

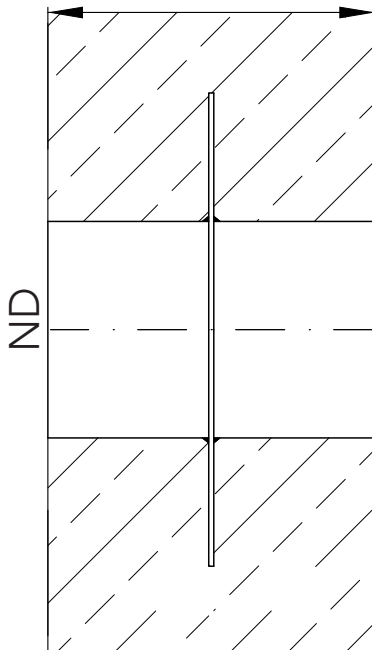
2.5 DW50

2.6 DW60

2.7 DW70

Version:	flush with shuttering, wall flange welded on in the middle pipe ends spigot on both sides
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HP0 QA certification acc. to DIN EN ISO 3834-3
Material:	see below
Surface:	see below

WT = wall thickness

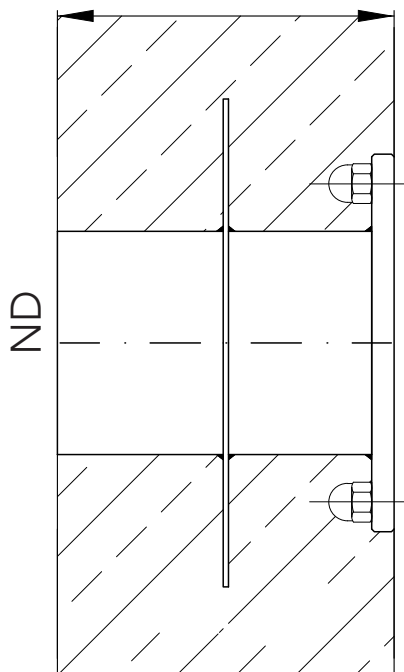


DW10		
nominal diameter	ND =	mm
wall thickness	WT =	mm
flange version	=	
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR	
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized	

*Please also refer to our technical information sheet.

Version:	flush with shuttering for one-sided flange connection with back welded cap nuts with wall flange welded on in the middle <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Material:	see below
Surface:	see below

WT = wall thickness

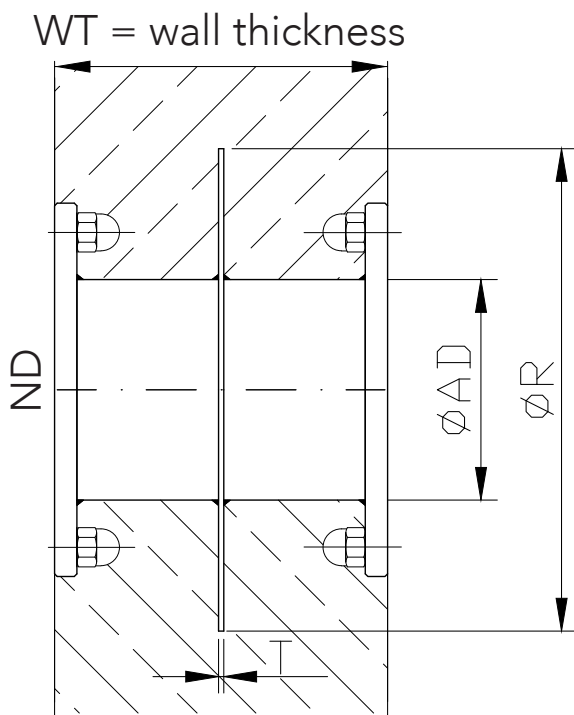


(illustration with smooth flange similar to DIN 2576)

DW20	
nominal diameter	ND = mm
nominal pressure	NP =
wall thickness	WT = mm
flange version	=
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized

*Please also refer to our technical information sheet.

Version:	flush with shuttering, for two-sided flange connection with back welded cap nuts with wall flange welded on in the middle <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Material:	see below
Surface:	see below

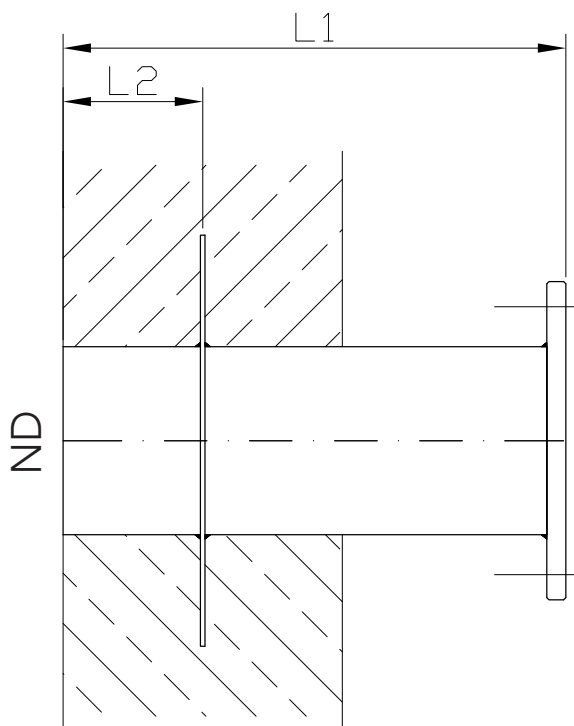


(illustration with smooth flange similar to DIN 2576)

DW30	
nominal diameter	ND = mm
nominal pressure	NP =
wall thickness	WT = mm
flange version	=
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized

*Please also refer to our technical information sheet.

Version:	for one-sided flange connection with wall flange welded (WT) <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • loose flanges similar to DIN 2642 reduced flange thickness (altern. full flange thickness) drilled acc. to NP10/16* with welding collar or neck • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HP0 QA certification acc. to DIN EN ISO 3834-3
Material:	see below
Surface:	see below

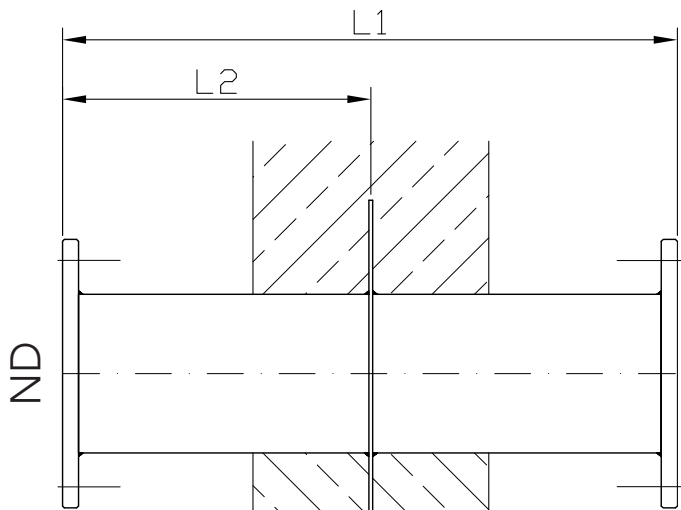


(illustration with flat flange similar to DIN 2576)

DW40	
nominal diameter	ND = mm
nominal pressure	NP =
length	L = mm
flange version	=
wall thickness	WT =
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized

*Please also refer to our technical information sheet.

Version:	penetrating through the shuttering, for two-sided flange connection with wall flange welded on in the middle (WT) <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • loose flanges similar to DIN 2642 reduced flange thickness (altern. full flange thickness) drilled acc. to NP10/16* with welding collar or neck • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HP0 QA certification acc. to DIN EN ISO 3834-3
Material:	see below
Surface:	see below



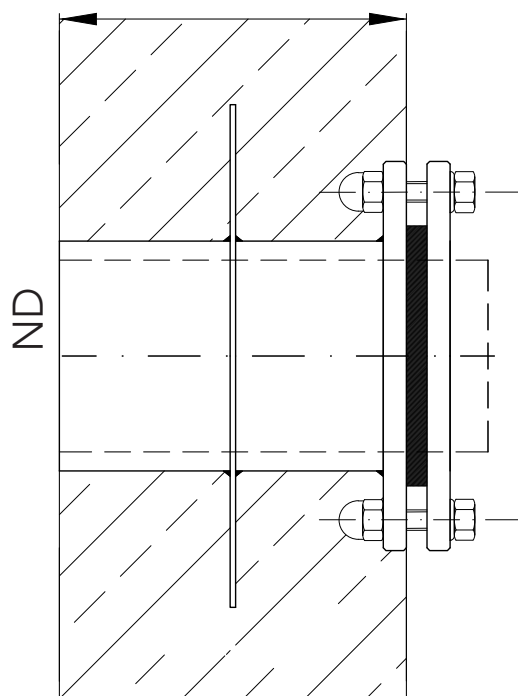
(illustration with flat flange similar to DIN 2576)

DW50	
nominal diameter	ND = mm
nominal pressure	NP =
length	L = mm
wall thickness	WT = mm
flange version	=
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized

*Please also refer to our technical information sheet.

Version:	for one-sided sealing, for transition of a spigot pipe and for compensation of pipe stretching, with wall flange welded on in the middle and welded cap nuts <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Material:	see below
Surface:	see below

WT = wall thickness

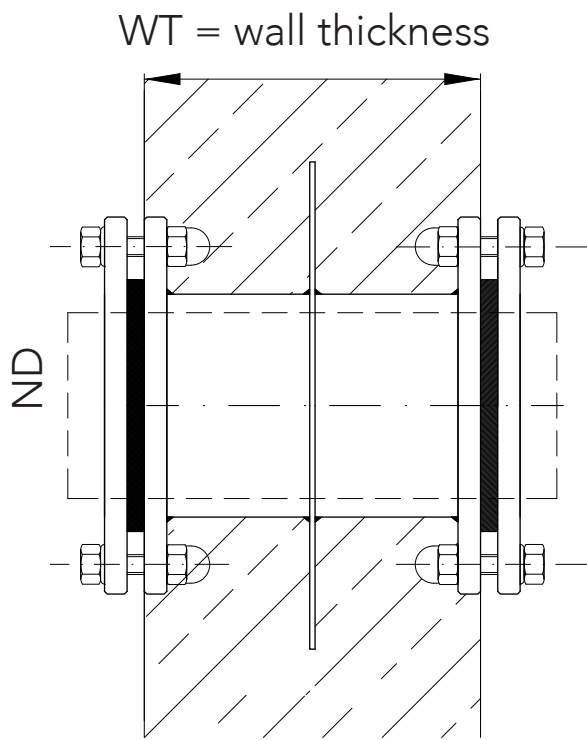


(illustration with flat flange similar to DIN 2576)

DW60		
nominal diameter	ND =	mm
nominal pressure	NP =	
wall thickness	WT =	mm
flange version	=	
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR	
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized	

*Please also refer to our technical information sheet.

Version:	for two-sided sealing, for transition of a flat pipe and for compensation of pipe stretching, with wall flange welded on in the center and welded cap nuts <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Material:	see below
Surface:	see below



(illustration with flat flange similar to DIN 2576)

DW70	
nominal diameter	ND = mm
nominal pressure	NP =
wall thickness	WT = mm
flange version	=
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized

*Please also refer to our technical information sheet.

3

Dismantling & Expansion Joints and Flange Adaptors:

Dismantling Joints

Expansion Joints

Flange Adaptors

3 Dismantling & Expansion Joints and Flange Adaptors

Dismantling Joints

- 3.1 DF1
- 3.2 DF2 rigid
- 3.3 DF3 rigid
- 3.4 DF4 rigid
- 3.5 DV non-rigid

Expansion Joints

- 3.6 DD non-rigid
- 3.7 DDK rigid
- 3.8 DDES to be weld on

Flange Adaptors

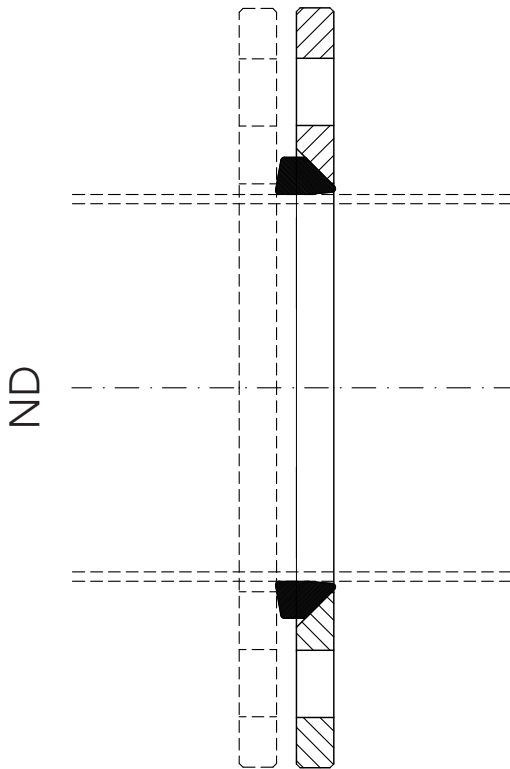
- 3.9 DS non-rigid
- 3.10 DSK non-rigid

Dismantling Joints

3.1 Type DF1



Version:	to be used when constructions have an appropriate fixed point. Transition piece from flange connection to spigot pipe end (connection pipe acc. to DIN 17457/1127) <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Material:	see below
Surface:	see below
Seal:	non-ageing Perbunan (NBR) or optional profile packing made of EPDM (for drinking water) with KTW certification



(illustration with flat flange similar to DIN 2576)

DF1	
nominal diameter	ND = mm
nominal pressure	NP =
flange version	=
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized

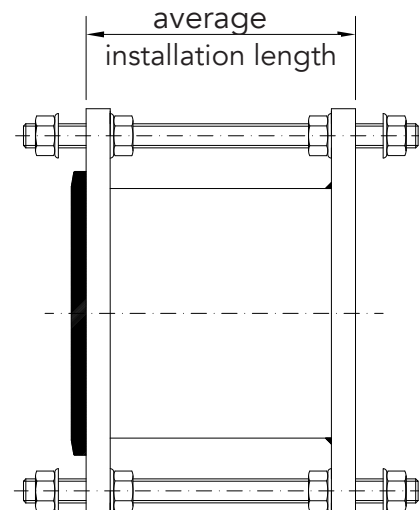
*Please also refer to our technical information sheet.

Version:	for installation and removal of fittings with little removal space, without length compensation, with continuous threaded rods, with two-sided flange connection <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Seal:	non-ageing Perbunan (NBR) or optional profile packing made of EPDM (for drinking water) with KTW certification

nominal diameter	ø OD	Installation length*	Adjustability	Threaded rods
ND	mm	mm	mm	mm
40	48,3	100	4	190
50	60,3	100	4	190
65	76,1	100	4	190
80	88,9	100	4	190
100	114,3	100	7	190
125	139,7	100	7	190
150	168,3	100	7	200
200	219,1	100	7	200
250	273,0	120	8	200
300	323,9	120	8	200
350	355,6	120	8	200
400	406,4	120	8	220
500	508,0	150	10	260
600	610,0	150	10	260
700	711,0	150	10	260
800	813,0	150	10	260
900	914,0	170	10	280
1000	1016,0	170	10	280

*When flanges with reduced flange thickness are used

DF 2	
nominal diameter	ND = mm
nominal pressure	NP =
flange version	=
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized



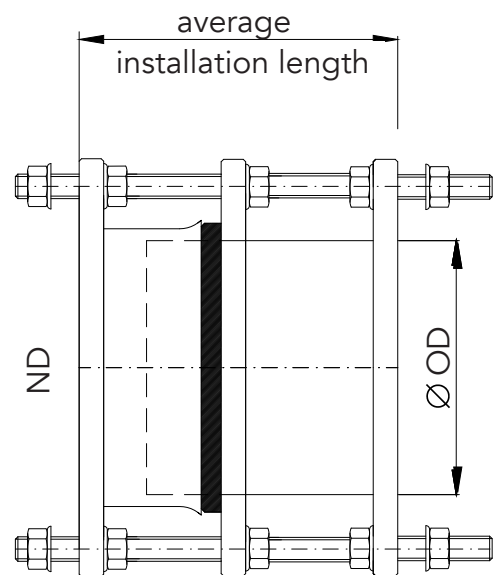
*Please also refer to our technical information sheet.

Version:	for the installation and removal of fittings for length compensation +/- 25 mm with continuous threaded rods, with two-sided flange connection flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16*
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Seal:	non-ageing Perbunan (NBR) or optional profile packing made of EPDM (for drinking water) with KTW certification

Nominal diameter	ø OD	similar to DIN 2576 red. flange thickness		DIN 2576 full flange thickness	
		Installation length	Threaded rods	Installation length	Threaded rods
ND	mm	mm	mm	mm	mm
40	-	-	-	200	330
50	60,3	180	300	200	330
65	76,1	180	300	200	330
80	88,9	200	300	200	330
100	114,3	200	300	200	330
125	139,7	200	300	200	330
150	168,3	200	340	200	340
200	219,1	220	340	220	340
250	273,0	220	340	220	360
300	323,9	220	340	220	360
350	355,6	230	340	230	380
400	406,4	230	370	260	430
500	508,0	260	390	280	475
600	610,0	260	410	see reduced flange thickness	
700	711,0	260	410		
800	813,0	290	450		
900	914,0	290	450		
1000	1016,0	290	450		

*When flanges with reduced flange thickness are used

DF 3	
nominal diameter	ND = mm
nominal pressure	NP =
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized

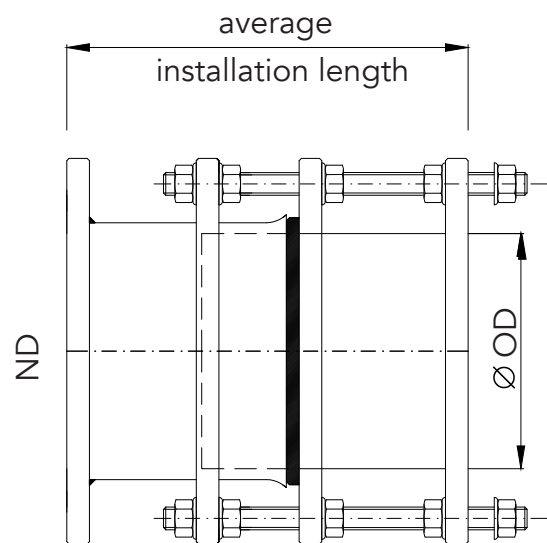


*Please also refer to our technical information sheet.

Version:	for the installation and removal of fittings for length compensation +/- 25mm, with continuous threaded rods, with two-sided flange connection flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16*
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HP0 QA certification acc. to DIN EN ISO 3834-3
Seal:	non-ageing Perbunan (NBR) or optional profile packing made of EPDM (for drinking water) with KTW certification

Nominal diameter	ø OD	similar to DIN 2576 red. flange thickness		DIN 2576 full flange thickness	
		Installation length	Threaded rods	Installation length*	Threaded rods
ND	mm	mm	mm	mm	mm
40	48,3	-	-	300	300
50	60,3	300	300	300	300
65	76,1	300	300	300	300
80	88,9	300	300	300	300
100	114,3	300	300	300	300
125	139,7	300	300	300	300
150	168,3	350	340	350	340
200	219,1	350	340	350	340
250	273,0	350	340	350	340
300	323,9	350	340	350	340
350	355,6	350	340	350	340
400	406,4	375	370	375	370
500	508,0	375	370	410	400
600	610,0	400	390	see reduced flange thickness	
700	711,0	400	390		
800	813,0	450	440		
900	914,0	450	440		
1000	1016,0	475	470		

DF4	
nominal diameter	ND = mm
nominal pressure	NP =
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized



*Please also refer to our technical information sheet.

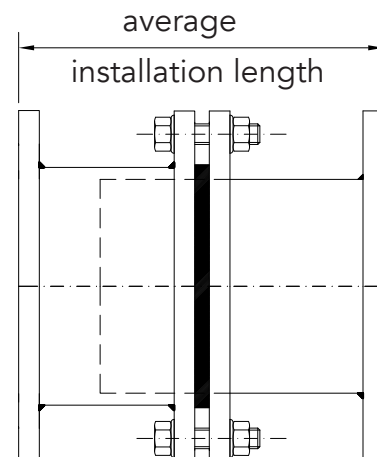
*When flanges with reduced flange thickness are used

Version:	for the installation and removal of fittings for length compensation (adjustability see table), with hexagonal bolts DIN 933, with two-sided flange connection <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP 10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Seal:	non-ageing Perbunan (NBR) or optional profile packing made of EPDM (for drinking water) with KTW certification

Nominal diameter	ø OD	Installation length*	Adjustability +/-
ND	mm	mm	mm
40	48,3	300	40
50	60,3	300	40
65	76,1	300	40
80	88,9	300	40
100	114,3	300	40
125	139,7	300	40
150	168,3	300	40
200	219,1	300	40
250	273,0	350	50
300	323,9	350	50
350	355,6	350	50
400	406,4	380	50
500	508,0	380	50
600	610,0	380	50
700	711,0	380	50
800	813,0	380	50
900	914,0	390	50
1000	1016,0	390	50

*When flanges with reduced flange thickness are used

DV	
nominal diameter	ND = mm
nominal pressure	NP =
flange version	=
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized

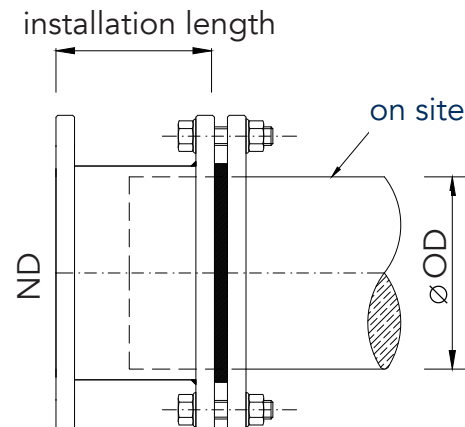


*Please also refer to our technical information sheet.

Version:	for the installation and removal of fittings for length compensation (adjustability see table), for expansion compensation while in operation, as transition piece from flange connection to spigot pipe end (connection pipe acc. to DIN 10217-7), with one-sided flange connection <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Seal:	non-ageing Perbunan (NBR) or optional profile packing made of EPDM (for drinking water) with KTW certification

Nominal diameter	ø OD	Installation length*	Adjustability
ND	mm	mm	mm
40	48,3	140	40
50	60,3	140	40
65	76,1	140	40
80	88,9	140	40
100	114,3	140	40
125	139,7	140	40
150	168,3	140	40
200	219,1	140	40
250	273,0	180	50
300	323,9	180	50
350	355,6	180	50
400	406,4	180	50
500	508,0	180	50
600	610,0	180	50
700	711,0	180	50
800	813,0	180	50
900	914,0	180	50
1000	1016,0	180	50

DD	
nominal diameter	ND = mm
nominal pressure	NP =
flange version	=
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized



*Please also refer to our technical information sheet.

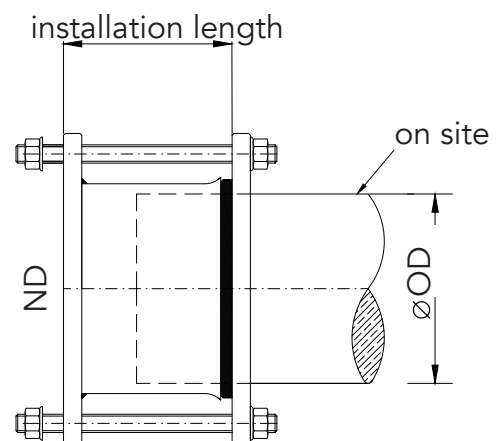
*When flanges with reduced flange thickness are used

Version:	for length compensation (adjustability see table), for expansion compensation while in operation as transition piece from flange connection to spigot pipe end (connection pipe acc. to DIN EN 10217-7) with one-sided flange connection <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Seal:	non-ageing Perbunan (NBR) or optional profile packing made of EPDM (for drinking water) with KTW certification

Nominal diameter	ø OD	Installation length*	threaded rods	Adjustability
ND	mm	mm	mm	mm
40	48,3	80	150	25
50	60,3	80	150	25
65	76,1	80	150	25
80	88,9	90	160	25
100	114,3	90	160	25
125	139,7	90	160	25
150	168,3	90	160	25
200	219,1	110	190	25
250	273,0	110	190	35
300	323,9	110	190	35
350	355,6	110	190	35
400	406,4	110	190	35
500	508,0	110	190	35
600	610,0	130	230	40
700	711,0	130	230	40
800	813,0	130	230	40
900	914,0	140	260	40
1000	1016,0	140	260	40

*When flanges with reduced flange thickness are used

DDK		
nominal diameter	ND =	mm
nominal pressure	NP =	
flange version	=	
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR	
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized	



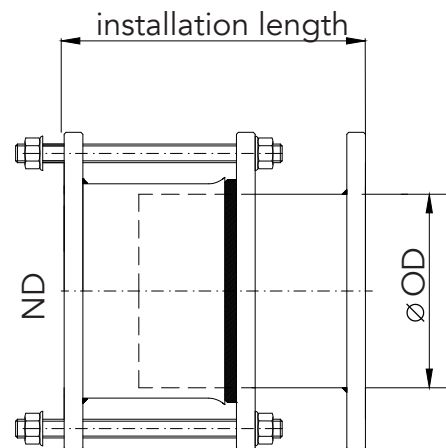
*Please also refer to our technical information sheet.

Version:	for the installation and removal of fittings for length compensation +/- 50mm, with continuous threaded rods, with two-sided flange connection <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Seal:	non-ageing Perbunan (NBR) or optional profile packing made of EPDM (for drinking water) with KTW certification

Nominal diameter	ø OD	Installation length*	Adjustability	threaded rods
ND	mm	mm	mm	mm
40	48,3	265	50	230
50	60,3	265	50	230
65	76,1	265	50	230
80	88,9	265	50	230
100	114,3	275	50	230
125	139,7	275	50	230
150	168,3	275	50	230
200	219,1	300	50	250
250	273,0	300	50	250
300	323,9	300	50	250
350	355,6	320	50	265
400	406,4	320	50	265
500	508,0	320	50	265
600	610,0	350	50	280
700	711,0	350	50	280
800	813,0	350	50	320
900	914,0	350	50	320
1000	1016,0	350	50	320

*When flanges with reduced flange thickness are used

DDK-F	
nominal diameter	ND = mm
nominal pressure	NP =
flange version	=
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized



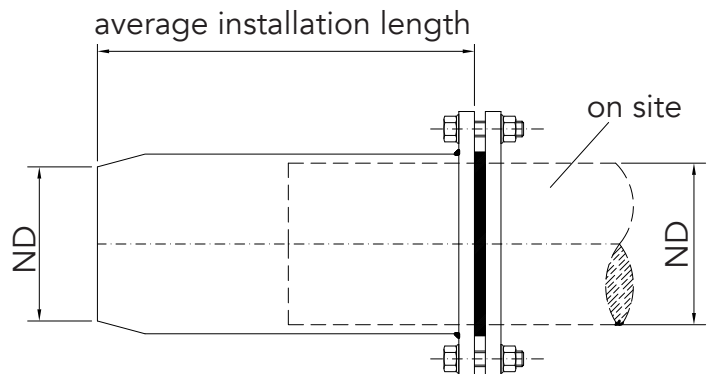
*Please also refer to our technical information sheet.

Version:	to connect two pipe ends for length compensation +/- 200 mm to compensate assembly differences, two-sided connection with spigot pipe end (connection pipe acc. to DIN EN 10217-7) <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Seal:	non-ageing Perbunan (NBR) or optional profile packing made of EPDM (for drinking water) with KTW certification

Nominal diameter	ø OD	Installation length*	Adjustability
ND	mm	mm	mm
40	48,3	670	200
50	60,3	670	200
65	76,1	670	200
80	88,9	670	200
100	114,3	670	200
125	139,7	670	200
150	168,3	670	200
200	219,1	680	200
250	273,0	680	200
300	323,9	680	200
350	355,6	680	200
400	406,4	680	200
500	508,0	680	200

*When flanges with reduced flange thickness are used

DDES	
nominal diameter	ND = mm
nominal pressure	NP =
flange version	=
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized



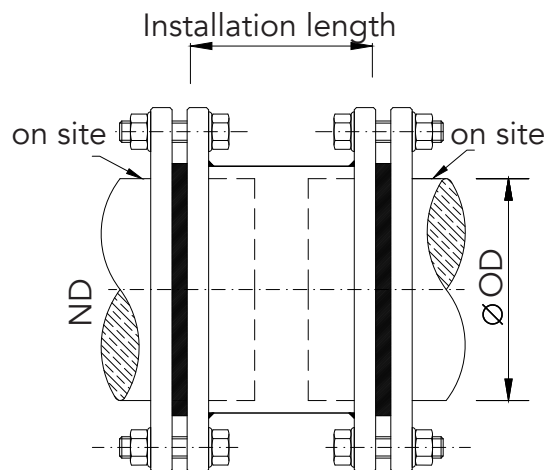
*Please also refer to our technical information sheet.

Version:	to connect two pipe ends for length compensation (Insertion depth see table) on both pipe ends (connection pipe acc. to DIN EN 10217-7) <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Seal:	non-ageing Perbunan (NBR) or optional profile packing made of EPDM (for drinking water) with KTW certification

Nominal diameter	ø OD	Installation length*	Insertion depth
ND	mm	mm	mm
40	48,3	115	40
50	60,3	115	40
65	76,1	115	40
80	88,9	115	40
100	114,3	115	40
125	139,7	115	40
150	168,3	115	40
200	219,1	125	40
250	273,0	125	50
300	323,9	125	50
350	355,6	125	50
400	406,4	125	50
500	508,0	125	50
600	610,0	150	60
700	711,0	150	60
800	813,0	150	60
900	914,0	150	60
1000	1016,0	150	60

*When flanges with reduced flange thickness are used

DS	
nominal diameter	ND = mm
nominal pressure	NP =
flange version	=
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized

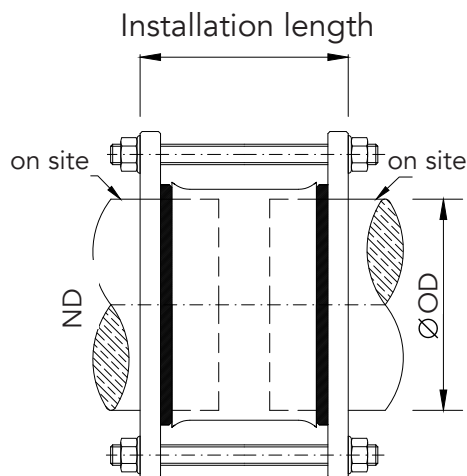


*Please also refer to our technical information sheet.

Version:	to connect two pipe ends for length compensation (Insertion depth see table) on both pipe ends (connection pipe acc. to DIN EN 10217-7) <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Seal:	non-ageing Perbunan (NBR) or optional profile packing made of EPDM (for drinking water) with KTW certification

Nominal diameter	ø OD	Installation length*	threaded rods	Insertion depth
ND	mm	mm	mm	mm
40	48,3	135	185	40
50	60,3	135	185	40
65	76,1	135	185	40
80	88,9	150	230	40
100	114,3	150	230	40
125	139,7	150	230	40
150	168,3	150	230	40
200	219,1	190	270	50
250	273,0	190	270	50
300	323,9	190	270	50
350	355,6	190	270	50
400	406,4	190	270	50
500	508,0	190	270	50
600	610,0	240	330	60
700	711,0	240	330	60
800	813,0	240	330	60
900	914,0	240	330	60
1000	1016,0	240	330	60

DSK	
nominal diameter	ND = mm
nominal pressure	NP =
flange version	=
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized



*When flanges with reduced flange thickness are used

*Please also refer to our technical information sheet.

4

Pipe Joints

4 Pipe Joints

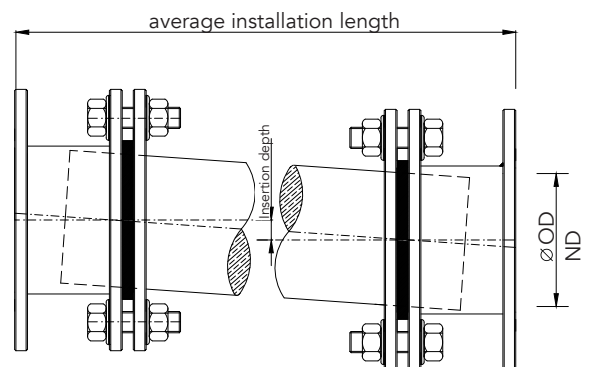
4.1 DRGL non-rigid

4.2 DRGF rigid

Version:	to compensate assembly differences, setting movements and to compensate expansion while operating, adjustability and average installation length depend on the offset, two-sided flange connection <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Seal:	non-ageing Perbunan (NBR) or optional profile packing made of EPDM (for drinking water) with KTW certification

Nominal diameter	ø OD	Installation length L	Average installation length
ND	mm	mm	mm
40	48,3	130	500
50	60,3	130	
65	76,1	130	
80	88,9	135	
100	114,3	135	
125	139,7	135	
150	168,3	135	
200	219,1	140	700
250	273,0	170	
300	323,9	170	
350	355,6	170	
400	406,4	170	
500	508,0	170	900
600	610,0	180	
700	711,0	180	
800	813,0	180	

DRGL	
nominal diameter	ND = mm
nominal pressure	NP =
flange version	=
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized



The adjustability and average installation length depend on the offset

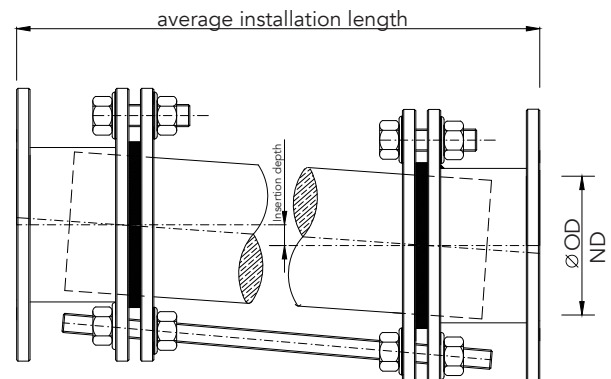
(illustration with flat flange similar to DIN 2576)

*Please also refer to our technical information sheet.

Version:	to compensate assembly differences, setting movements and to compensate expansion while operating, adjustability and installation length depend on the offset, two-sided flange connection <ul style="list-style-type: none"> • flat flanges similar to DIN 2576 reduced flange thickness (altern. full flange thickness) drilled according to NP10/16* • welding neck flanges DIN 2632-35 • flanges acc. to EN 1092-1 acc. to type 01, 02, 11
Welds:	acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1 welders qualified acc. to DIN EN 287-1
Authorizations/Certificates:	licensed manufacturer acc. to AD2000 - bulletin HPO QA certification acc. to DIN EN ISO 3834-3
Seal:	non-ageing Perbunan (NBR) or optional profile packing made of EPDM (for drinking water) with KTW certification

Nominal diameter	ø OD	Installation length L	Average installation length
ND	mm	mm	mm
40	48,3	130	500
50	60,3	130	
65	76,1	130	
80	88,9	135	
100	114,3	135	
125	139,7	135	
150	168,3	135	
200	219,1	140	700
250	273,0	170	
300	323,9	170	
350	355,6	170	
400	406,4	170	
500	508,0	170	900
600	610,0	180	
700	711,0	180	
800	813,0	180	

DRGF	
nominal diameter	ND = mm
nominal pressure	NP =
flange version	=
Material	<input type="checkbox"/> 1.4571 <input type="checkbox"/> 1.4301 <input type="checkbox"/> S235JR
Surface	<input type="checkbox"/> dip-pickled and passivated <input type="checkbox"/> hot-dip galvanized or galvanized for drinking water use <input type="checkbox"/> sandblasted and epoxy coated <input type="checkbox"/> bituminized



The adjustability and average installation length depend on the offset

(illustration with flat flange similar to DIN 2576)

*Please also refer to our technical information sheet.

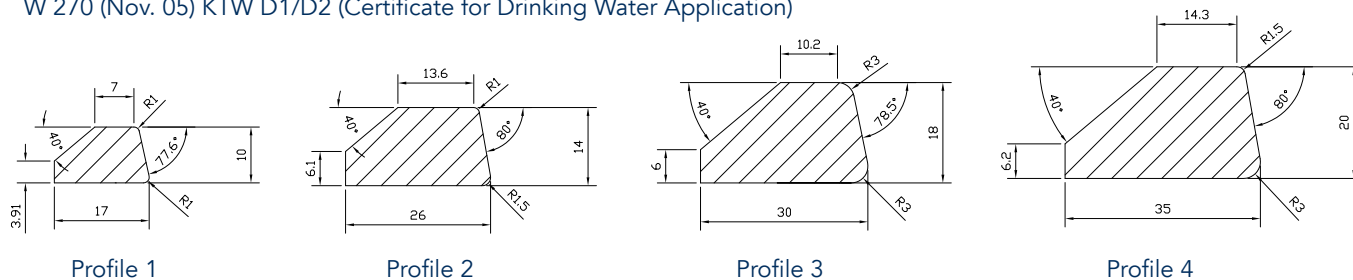
Version:

acc. to DIN EN ISO 5817 C, qualified welding procedures acc. to DIN EN 288-3 / DIN EN ISO 15614-1
 welders qualified acc. to DIN EN 287-1
 QA certification acc. to DIN EN ISO 3834-3, licensed manufacturer acc. to AD2000 - bulletin HPO

The complete production is subjected to DIN 2768-1(v).

The sealing profile is delivered in NBR quality by default.

On customer's request the sealing profiles can be delivered in EPDM quality with DVGW homologation acc. to Process Sheet W 270 (Nov. 05) KTW D1/D2 (Certificate for Drinking Water Application)



Sealing profile's cross sectional area

Pipe and flange thicknesses are calculated acc. to AD Rules and Standards or acc. to customer's request.

Flat flanges similar to DIN 2576 (reduced thickness)

Nominal Diameter ND	40	50	65	80	100	125	150	200	250
Material Thickness mm	10	10	10	10	10	12	12	12	15
Nominal Diameter ND	300	350	400	500	600	700	800	900	1000
Material Thickness mm	15	15	15	15	20	20	20	20	25

From ND 250 on and up to ND 1000 full face gaskets must be used on both sides in order to guarantee a working pressure of 10 bar.

Wall flanges for Wall Entrances

Nominal Diameter ND	40	50	65	80	100	125	150	200	250
Outside Diameter in mm	150	160	176	190	214	240	288	340	393
Material Thickness in mm	4	4	4	4	4	4	4	4	4
Nominal Diameter ND	300	350	400	500	600	700	800	900	1000
Outside Diameter in mm	443	475	526	628	733	831	933	1034	1136
Material Thickness in mm	4	4	4	4	4	4	5	5	5