

Connecting and supporting technology
for buildings and infrastructure.



VARIO PIPE CONNECTOR

The universal pipe connector



NORMA INFRASTRUCTURE

CONSTRUCTION

SANITARY

WATER MANAGEMENT

SHIPBUILDING



VARIO PIPE CONNECTOR

Smooth transition. No adapters needed.

The Vario Pipe Connector joins all kinds of pipes typically used in sewer construction. Vario Pipe Connectors are also suitable for making reliable pipe joints in non-standard applications. They ensure smooth transition between different diameter pipes while reducing and stabilising the shear load.

Material: 1.4301
Seal EPDM

VARIO PIPE CONNECTOR – all the benefits at a glance

- Adaptation between large diameter differences without the need for compensation rings
- Smooth transition at both ends with shear load stabilisation
- Large cylindrical mating surface / pipe clamping area
- Seal sleeve with centred seat for precise installation
- Robust, compact, safe and reliable handling
- Easy, reliable and time-saving assembly



VARIO PIPE CONNECTOR as compared with conventional sleeve connections

VARIO PIPE CONNECTOR	Conventional sleeve
Joins pipes of different outside diameter	Joins pipes of the same outside diameter
Joins pipes of different materials	
Joins pipes of different types	
Fastening with click lock system, no welding or TOX clinching necessary	Turnbuckle and strap fastened by welding or TOX clinching
No compensation rings required	Adaptation between different diameters requires compensation rings
Ability to compensate for large diameter differences	Result: Abrupt transition
Smooth transition	Pipeline displacement
Large surface area, cylindrical bearing surface / contact with the pipe	
Central folding shoulder for a precision-fit installation	
Seating channel on both sides for secure band guidance	
Robust, compact design and safe handling	

VARIO PIPE CONNECTOR DN 100 - 300mm

Type	NORMA part no.	Description	Clamping range outside diameter	max. transferstep	Sleeve width	Package	
			mm	mm	mm	Box	Pallet
100	246 0010 100	Vario Pipe 100	102-131	29	160	10	80
125	246 0010 125	Vario Pipe 125	125-161	36	160	12	72
150	246 0010 150	Vario Pipe 150	160-192	32	160	12	60
200	246 0010 185	Vario Pipe 200 K	185-225	40	160	10	50
200*	246 0010 200	Vario Pipe 200 G	200-261	61	175	8	40
200	246 0010 220	Vario Pipe 220	220-261	41	175	8	40
250*	246 0010 250	Vario Pipe 250	250-322	72	175	6	36
250	246 0010 270	Vario Pipe 270	270-322	52	175	6	36
300	246 0010 382	Vario Pipe 300	313-382	69	210	5	20

* Including compensation ring and /or eccentric ring for equal-base connections with smooth PVC/PP pipes

Tangential tensioner - detachable tightening aid

The tangential tensioner takes over or assists the tightening process for Vario Pipe Connectors larger than DN 300.



Transmission of force is

- centric
- circular
- uniform
- powerful
- fast and secure
- over the entire 360° circumference

Description	Application	Force potential	Length approx.	Price
Tangential tensioner of steel/stainless steel	Vario Pipe DN 300 - 1070	to approx. 40 Nm	500mm	€112.00

The tensioner grips below the turnbuckles and fixation, and locks on the tensioning band and then into its end on the opposite side. Most of all, the locks make for fast and easy pre-adjustment to the external diameter of the pipes to be connected. The main purpose of the locks is fastening or holding the applied tension force. (The retention force is about ¼ of the required closing force!)

The threaded shaft can be driven by a machine or with a ratchet (torque wrench). The shaft's drive head is the same size as the locks, so the spanner gap doesn't have to be changed (8 mm socket).

VARIO PIPE CONNECTOR > DN 300 - 1000mm

with tensioner

For Vario Pipe couplings with a nominal diameter of DN 300 and greater, a universal removable tensioner is available. This professional tensioner facilitates powerful, rapid and perfect clamping. Use of the tensioner is particularly recommended in cases where the desired reduction is greater than 25mm.

Type	NORMA part no.	Description	Clamping range outside diameter	max. transferstep	Sleeve width	Package
		Description	mm	mm	mm	
310	246 0010 310	Vario Pipe 310	250-310	70	200	5
325	246 0010 325	Vario Pipe 325	265-325	70	200	5
345	246 0010 345	Vario Pipe 345	280-345	70	200	5
360	246 0010 360	Vario Pipe 360	295-360	70	200	5
382	246 0010 382	Vario Pipe 383	313-382	70	200	5
400	246 0010 400	Vario Pipe 400	330-400	70	200	4
415	246 0010 415	Vario Pipe 415	345-415	70	200	4
430	246 0010 430	Vario Pipe 430	360-430	70	200	4
455	246 0010 455	Vario Pipe 455	385-455	70	200	4
465	246 0010 465	Vario Pipe 465	395-465	70	200	4
485	246 0010 485	Vario Pipe 485	415-485	70	200	4
500	246 0010 500	Vario Pipe 500	430-500	70	200	4
520	246 0010 520	Vario Pipe 520	450-520	70	200	4
535	246 0010 535	Vario Pipe 535	465-535	70	200	4
555	246 0010 555	Vario Pipe 555	485-555	70	200	4
565	246 0010 565	Vario Pipe 565	495-565	70	200	2
590	246 0010 590	Vario Pipe 590	520-590	70	200	2
605	246 0010 605	Vario Pipe 605	535-605	70	200	2
620	246 0010 620	Vario Pipe 620	550-620	70	200	2
640	246 0010 640	Vario Pipe 640	570-640	70	200	2
660	246 0010 660	Vario Pipe 660	590-660	70	200	2
675	246 0010 675	Vario Pipe 675	605-675	70	200	2
690	246 0010 690	Vario Pipe 690	620-690	70	200	2
710	246 0010 710	Vario Pipe 710	640-710	70	200	2
730	246 0010 730	Vario Pipe 730	660-730	70	200	2
750	246 0010 750	Vario Pipe 750	680-750	70	200	2
765	246 0010 765	Vario Pipe 765	695-765	70	200	2
780	246 0010 780	Vario Pipe 780	710-780	70	200	2
800	246 0010 800	Vario Pipe 800	730-800	70	200	2
815	246 0010 815	Vario Pipe 815	745-815	70	200	2
835	246 0010 835	Vario Pipe 835	765-835	70	200	2
850	246 0010 850	Vario Pipe 850	780-850	70	200	2
870	246 0010 870	Vario Pipe 870	800-870	65	200	2
885	246 0010 885	Vario Pipe 885	815-885	65	200	2
905	246 0010 905	Vario Pipe 905	835-905	65	200	2
920	246 0010 920	Vario Pipe 920	850-920	65	200	2
940	246 0010 940	Vario Pipe 940	870-940	60	200	2
960	246 0010 960	Vario Pipe 960	890-960	60	200	2
975	246 0010 975	Vario Pipe 975	905-975	60	200	2
995	246 0010 995	Vario Pipe 995	925-995	60	200	2
1010	246 0010 010	Vario Pipe 1010	940-1010	55	200	2
1130	246 0010 130	Vario Pipe 1130	960-1030	55	200	2
1045	246 0010 045	Vario Pipe 1045	975-1045	55	200	2
1065	246 0010 065	Vario Pipe 1065	995-1065	55	200	2
1080	246 0010 080	Vario Pipe 1080	1010-1080	55	200	2
1100 - 1400		on request				

Outside diameter of various pipes



Nominal diameter Pipe model/type	100 mm	125 mm	150 mm	200 mm	250 mm	300 mm	350 mm	400 mm	450 mm	500 mm	600 mm	700 mm	800 mm	900 mm	1000 mm
Stoneware pipes, normal loading	131	159	186	242	299	355	417	486		581	687	795	895	1008	1119
Stoneware pipes, high loading				254	318	376		492	548	609	725	831	941		
Stoneware pipes, jacking			210	276	355	406		556		658	760	862	970		1178
Ductile cast iron pipes	118	144	170	222	274	326	378	429	480	532	635	738	842	945	1048
SML pipes	110	135	160	210	274	326		429		532	635				
GRP pipes	116	142	168	220	272	324	376	427		530	616	718	820	924	1026
Sewer pipes – PVC / PP	110	125	160	200	250	315	355	400	450	500	630	710	800	900	1000
Ultra-Rib pipes 1+2			170	225	280	335		450		560					
Robukan PP			174	235	292	346	398	461		585	693				
HDPE pipes	110	125	160	200	250	315	355	400	450	500	630				
Fiber-cement pipes, class A								442	496	552	658	768	876	961	1068
Fiber-cement pipes, class B	124	149	176	230	284	338	392	448	502	556	664	778	888	998	1108
Asbestos-cement pipes	116	141	168	220	274	328	384	432	486	540	646	750	856	961	1068
Concrete pipes	Manufacturer		Factory location												
RC pipe K-GM with integr. / wedge-shaped sliding seal DIN V 1201	HABA	Aichstetten		440 460		550		660	770	880	1000	1120	1240		
		Garching/Teising/ Leipzig		450		550		650	760	860 880	980 1000	1100 1120	1220 1240		
	Rinninger	Kissleg		446		530		674	786	870	990	1110	1130		
	Schnurrer	Weiden		440		550		670	800	880	1000	1120	1240		
	Ruf	Wilburgstetten		440		550		650	760	880	1000	1120	1240		
	Berding	Bösdorf		450		550		670	800	930	1060	1190	1320		
		Möhnsee		450		570		690	820	930	1040	xx	1280		
		Liessow, Bad		420		550		640	760	880	1000	xx	1240		
Concrete pipe K-GM with integr. / wedge-shaped sliding seal DIN 1916 / DIN V 1201	HABA	Garching/Leipzig	390	450		550		670	800	930	1060				
	Schnurrer	Weiden		440		550		670	800	880	1000	1120	1240		
	Ruf	Wilburgstetten		440		550									
	Berding	Bösdorf		436		540		670	800	830	1060	1190	1320		
		Uelzen/Liessow/ Badeborn/Linth		420		550		670	800	830	1060	1190	1320		
RC „Robust Rohr“ pipe K-FM with integr. seal	HABA	Aichstetten		530		630									
	Rinninger	Kissleg		540		620		730	860	1020					

VARIO PIPE

A new product of
NORMA **INFRASTRUCTURE**

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