

Georg Fischer Waga N.V.

One size fits and grips all  
restraint - non restraint  
DN50 - DN600

## Products

MULTI/JOINT®



# MULTI/JOINT® FITTINGS

» Large tolerance fittings » complete range » DN50-DN600 »

## Large tolerance fittings for water and gas

The MULTI/JOINT® large tolerance fittings enable you to connect pipes with different outside diameters and/or pipes of different materials, varying in size from DN50 – DN600. Whether you want to connect cast iron, ductile iron, steel, PE, PVC or asbestos cement, MULTI/JOINT® offers an easy to install, reliable and lasting connection with stepless ranges up to DN225, with a maximum range of up to 43 mm. MULTI/JOINT® has all approvals for use in both water and gas systems.

For sizes up to and including DN300, the MULTI/JOINT® large tolerance fittings are end-load resistant. This makes the use of thrust blocks obsolete, saving extra material costs and extra digging, and even more important, resulting in a more secure system. So save money by bringing down your stock and by saving time on searching for the right fitting.

One size fits and grips all, with the restraint MULTI/JOINT® large tolerance fittings!



Model	Type	Type	Dimensions	
Coupling	restraint	type 3007	DN50	- DN300
	non-restraint	type 3000	DN50	- DN300
	non-restraint	type 2500	DN350	- DN600
Reduced coupling	restraint	type 3107	DN65/50	- DN300/250
	non-restraint	type 3100	DN65/50	- DN300/250
	non-restraint	type 2600	DN350/300	- DN550/500
T-piece	restraint	type 3757	DN100/100/80 Fl	- DN150/150/80 Fl
	non-restraint	type 3750	DN100/100/80 Fl	- DN150/150/80 Fl
Bend	restraint	type 3407	DN80	- DN150
	non-restraint	type 3400	DN80	- DN150
Flange Adaptor	restraint	type 3057	DN50/50 Fl	- DN300/300 Fl
	non-restraint	type 3050	DN50/50 Fl	- DN300/300 Fl
	non-restraint	type 2550	DN350/350 Fl	- DN600/600 Fl
Flange Adaptor reduced	restraint	type 3157	DN50/40 Fl	- DN225/250 Fl
	non-restraint	type 3150	DN50/40 Fl	- DN225/250 Fl
	non-restraint	type 2650	DN350/300 Fl	- DN550/500 Fl
Duckfoot	restraint	type 3457	DN80/80 Fl	- DN100/100 Fl
	non-restraint	type 3450	DN80/80 Fl	- DN100/100 Fl
Duckfoot reduced	restraint	type 3557	DN50/80 Fl	- DN150/100 Fl
	non-restraint	type 3550	DN50/80 Fl	- DN150/100 Fl
Spigot end	restraint	type 3087	DN50/63	- DN200/200
	non-restraint	type 3080	DN50/63	- DN200/200
Reduced spigot	restraint	type 3187	DN80/110	
	non-restraint	type 3180	DN80/110	
End-cap	restraint	type 3207 blind	DN50	- DN300
	non-restraint	type 3200 blind	DN50	- DN300
Threaded end-cap	restraint	type 3207 thread	DN50 (¾"-2")	- DN300 (¾"-2")
	non-restraint	type 3200 thread	DN50 (¾"-2")	- DN300 (¾"-2")

# Technical specifications

Body	: Ductile cast iron GGG45, according to EN-GJS-450-10.
Clamp ring	: Ductile cast iron GGG45, according to EN-GJS-450-10.
Coating	: Resicoat epoxy powder coating, type "RT 9000 R4", meets requirements of e.g. ACS, Belgaqua, KTW, NSF Standard 61, WRAS, KIWA and many more for use in drinking water pipe lines. Colour red (RAL 3003). Minimum layer thickness 250 micron, according to GSK-register.
Varioseal®	: For water and gas: NBR according to EN 682. : For water: EPDM according to EN 681-1.
Temperature	: -5°C up to +50°C.
Flekscores	: Nakan GPM.
Fiksers®	: Stainless steel A4 (AISI 316) (only for restraint versions).
Bolts**	: Stainless steel A2 (AISI 304) teflon coated to prevent galling.
Nuts**	: Stainless steel A2 (AISI 304), galvanised and passivated to prevent galling.
Washers	: Stainless steel A2 (AISI 304).
Flanges	: DN50 to DN150 drilling pattern PN16 (EN 1092-2) DN200 to DN300 drilling pattern PN10 or PN16 (EN 1092-2) DN350 to DN600 drilling pattern PN10 (EN 1092-2)
Working pressures*	: MULTI/JOINT® 3000 Family (non-restraint) PFA* 25 bar. MULTI/JOINT® 3007 Family (restraint) up to PFA* 16 bar. MULTI/JOINT® XL Family (non-restraint) PFA* 10 bar.
Patent nr.	: Patented under number EP0794378 and other patents.
Certificates	: ACS (France), Belgaqua (Belgium), WRc (United Kingdom), ÖVGW (Austria), SVGW (Switzerland) and others.



\* For detailed information about the PFA (working pressure) please check the user manual.  
\*\* Optional: bolts and nuts in stainless steel A4 (AISI 316).

Nominal size DN	Range outside pipe diameter	
	MULTI/JOINT® 3000 restraint/non-restraint	MULTI/JOINT® XL non-restraint
50	46 - 71	
65	69 - 90	
80	84 - 105	
100	104 - 132	
125	132 - 155	
150	154 - 192	
200	192 - 232	
225	232 - 257	
250	267 - 310	
300	315 - 356	315 - 337
350		356 - 380
400		400 - 429
450		450 - 482
500		500 - 532
550		548 - 580
600		605 - 637

## Angularity - nominal per socket end

Type	non-restraint	restraint
MULTI/JOINT® 3000	8°	
MULTI/JOINT® 3007		4°
MULTI/JOINT® XL	4°	

## Material suitability

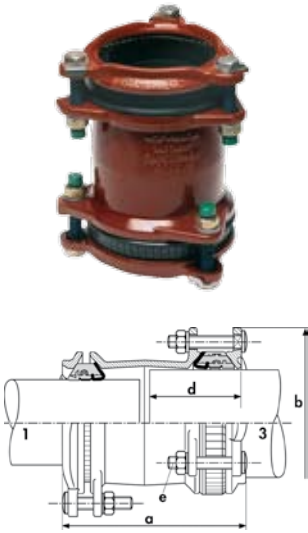
material	non-restraint	restraint
PVC	yes*	yes*
PE/PP-B/PP-H	yes*	yes*
ABS	yes*	yes*
Reinforced plastics	yes	consult us
Copper	yes	yes
Steel	yes	yes
Stainless steel	yes	yes
Grey and ductile cast iron	yes	yes
(Asbestos) cement	yes	consult us

\*For best performance, use of an insert stiffener is required.

## MULTI/JOINT® type 3000 & 3007

coupling

maximum allowable working pressure: non-restraint - water up to 25 bar, gas up to 8 bar \*  
: restraint - water up to 16 bar, gas up to 8 bar \*



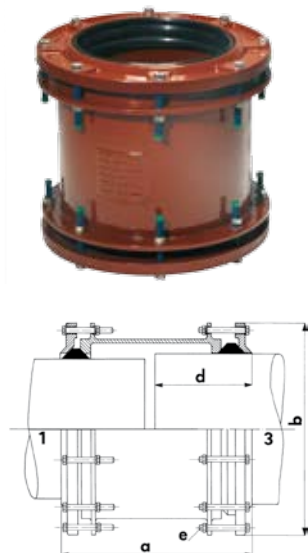
DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	kg
	1	3					
50	46-71	46-71	220-250	164	100	3xM12	4.8
65	69-90	69-90	209-233	186	95	3xM12	5.6
80	84-105	84-105	234-262	204	115	3xM12	7.2
100	104-132	104-132	230-268	236	110	3xM16	9.4
125	132-155	132-155	246-282	264	120	4xM16	12.0
150	154-192	154-192	242-298	304	120	4xM16	14.8
200	192-232	192-232	297-351	354	140	6xM20	28.6
225	232-257	232-257	342-404	386	145	6xM20	33.4
250	267-310	267-310	354-424	432	170	6xM20	40.0
300	315-356	315-356	356-426	490	170	8xM20	51.5

DN [mm]	code					
	NBR			EPDM		
	restraint type 3007 with Fiksers		non-restraint type 3000	restraint type 3007 with Fiksers		non-restraint type 3000
	multi/fikser	poly/fikser		multi/fikser	poly/fikser	
50	709 307 210		709 300 210	709 307 610		709 300 610
65	709 307 212		709 300 212	709 307 612		709 300 612
80	709 307 214	709 309 214	709 300 214	709 307 614	709 309 614	709 300 614
100	709 307 216	709 309 216	709 300 216	709 307 616	709 309 616	709 300 616
125	709 307 218	709 309 218	709 300 218	709 307 618	709 309 618	709 300 618
150	709 307 220	709 309 220	709 300 220	709 307 620	709 309 620	709 300 620
200	709 307 224	709 309 224	709 300 224	709 307 624	709 309 624	709 300 624
225	709 307 226	709 309 226	709 300 226	709 307 626	709 309 626	709 300 626
250	709 307 228	709 309 228	709 300 228	709 307 628	709 309 628	709 300 628
300	709 307 232	709 309 232	709 300 232	709 307 632	709 309 632	709 300 632

## MULTI/JOINT® XL type 2500

coupling

maximum allowable working pressure: non-restraint - water 10 bar, gas 4 bar



DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	kg
	1	3					
350	356-380	356-380	520	551	240	8xM16	99.0
400	400-429	400-429	520	600	240	10xM16	115.0
450	450-482	450-482	520	653	240	10xM16	122.0
500	500-532	500-532	520	720	240	10xM20	149.0
600	605-637	605-637	520	820	240	12xM20	178.0

DN [mm]	code	
	NBR	EPDM
	non-restraint	non-restraint
350	709 006 200	709 006 600
400	709 006 205	709 006 605
450	709 006 207	709 006 607
500	709 006 210	709 006 610
600	709 006 215	709 006 615

Note: Multi/Fikser x Poly/Fikser on request

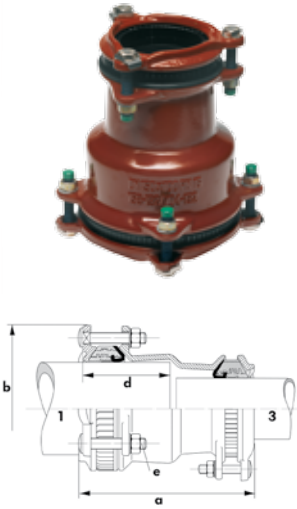
\* For detailed information about the PFA (working pressure) please check the user manual .

## MULTI/JOINT® type 3100 & 3107

## reduced coupling

maximum allowable working pressure: non-restraint - water up to 25 bar, gas up to 8 bar \*

: restraint - water up to 16 bar, gas up to 8 bar \*



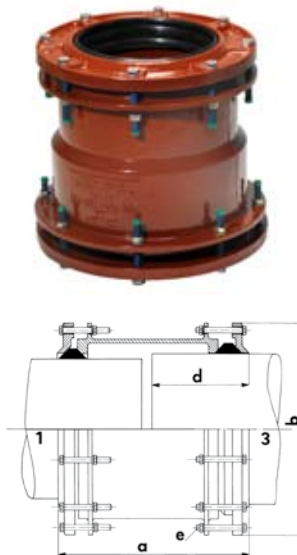
DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	kg
	1	3					
50x65	46-71	69-90	242-268	186	95	3xM12/3xM12	5.5
65x80	69-90	84-105	242-268	204	115	3xM12/3xM12	6.7
80x100	84-105	104-132	232-265	236	110	3xM12/3xM16	8.3
100x125	104-132	132-155	238-275	264	120	3xM16/4xM16	11.1
100x150	132-155	154-192	276-323	304	120	3xM16/4xM16	13.8
125x150	132-155	154-192	276-322	304	120	4xM16/4xM16	14.4
150x200	154-192	192-232	265-321	354	120	4xM16/6xM20	22.0
200x225	192-232	232-257	340-398	386	145	6xM20/6xM20	31.9
225x250	232-257	267-310	385-424	432	170	6xM20/6xM20	36.2
250x300	267-310	315-356	356-426	490	170	6xM20/8xM20	49.0

DN [mm]	code					
	NBR			EPDM		
	restraint type 3107 with Fiksers		non-restraint type 3100	restraint type 3107 with Fiksers		non-restraint type 3100
	multi/fikser	poly/fikser		multi/fikser	poly/fikser	
50x65	709 407 218		709 400 218	709 407 618		709 400 618
65x80	709 407 220		709 400 220	709 407 620		709 400 620
80x100	709 407 224	709 409 224	709 400 224	709 407 624	709 409 624	709 400 624
100x125	709 407 232	709 409 232	709 400 232	709 407 632	709 409 632	709 400 632
100x150	709 407 236	709 409 236	709 400 236	709 407 636	709 409 636	709 400 636
125x150	709 407 238	709 409 238	709 400 238	709 407 638	709 409 638	709 400 638
150x200	709 407 248	709 409 248	709 400 248	709 407 648	709 409 648	709 400 648
200x225	709 407 278	709 409 278	709 400 278	709 407 678	709 409 678	709 400 678
225x250	709 407 282	709 409 282	709 400 282	709 407 682	709 409 682	709 400 682
250x300	709 407 286	709 409 286	709 400 286	709 407 686	709 409 686	709 400 686

## MULTI/JOINT® XL type 2600

## reduced coupling

maximum allowable working pressure: non-restraint - water 10 bar, gas 4 bar



DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	kg
	1	3					
300x350	315-337	356-380	520	551	240	8xM16/8xM16	102.0
400x450	400-429	450-482	520	653	240	10xM16/10xM16	125.0
500x550	500-532	548-580	520	765	240	12xM20/12xM20	160.0

DN [mm]	code	
	NBR	EPDM
	non-restraint	non-restraint
300x350	709 007 205	709 007 605
400x450	709 007 210	709 007 610
500x550	709 007 215	709 007 615

Note: Multi/Fikser x Poly/Fikser on request

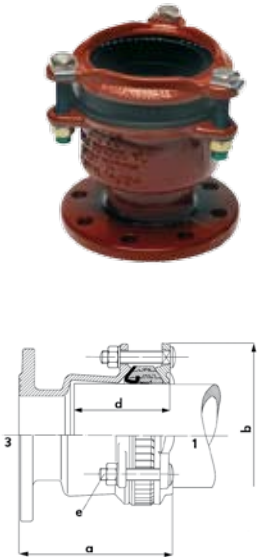
\* For detailed information about the PFA (working pressure) please check the user manual.

## MULTI/JOINT® type 3050 & 3057

## flange adaptor

maximum allowable working pressure: non-restraint - water up to 25 bar, gas up to 8 bar \*

: restraint - water up to 16 bar, gas up to 8 bar \*



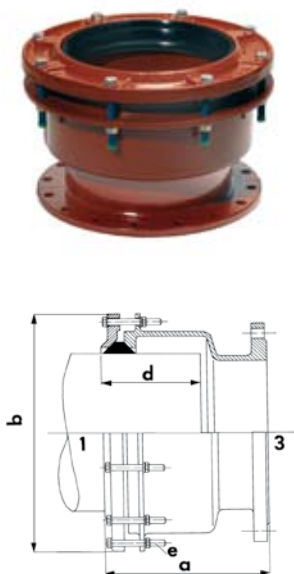
DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	kg
	1	3					
50	46-71	50f/PN16	179-194	164	100	3xM12	5.6
65	69-90	60-65f/PN16	187-198	186	95	3xM12	6.5
80	84-105	80f/PN16	183-197	204	115	3xM12	6.5
100	104-132	100f/PN16	181-200	236	110	3xM16	8.6
125	132-155	125f/PN16	196-214	264	120	4xM16	13.0
150	154-192	150f/PN16	194-222	304	120	4xM16	14.0
200	192-232	200f/PN10	224-251	354	140	6xM20	21.7
200	192-232	200f/PN16	224-251	354	140	6xM20	21.7
250	267-310	250f/PN10	260-295	432	170	6xM20	31.1
250	267-310	250f/PN16	260-295	432	170	6xM20	31.1
300	315-356	300f/PN10	283-318	490	170	8xM20	40.5
300	315-356	300f/PN16	283-318	490	170	8xM20	40.5

DN [mm]	code					
	NBR			EPDM		
	restraint type 3057 with Fiksers		non-restraint type 3050	restraint type 3057 with Fiksers		non-restraint type 3050
	multi/fikser	poly/fikser		multi/fikser	poly/fikser	
50	709 357 210	-	709 350 210	709 357 610	-	709 350 610
65	709 357 212	-	709 350 212	709 357 612	-	709 350 612
80	709 357 214	709 359 214	709 350 214	709 357 614	709 359 614	709 350 614
100	709 357 216	709 359 216	709 350 216	709 357 616	709 359 616	709 350 616
125	709 357 218	709 359 218	709 350 218	709 357 618	709 359 618	709 350 618
150	709 357 220	709 359 220	709 350 220	709 357 620	709 359 620	709 350 620
200	709 357 224	709 359 224	709 350 224	709 357 624	709 359 624	709 350 624
200	709 357 225	709 359 225	709 350 225	709 357 625	709 359 625	709 350 625
250	709 357 228	709 359 228	709 350 228	709 357 628	709 359 628	709 350 628
250	709 357 229	709 359 229	709 350 229	709 357 629	709 359 629	709 350 629
300	709 357 232	709 359 232	709 350 232	709 357 632	709 359 632	709 350 632
300	709 357 233	709 359 233	709 350 233	709 357 633	709 359 633	709 350 633

## MULTI/JOINT® XL type 2550

## flange adaptor

maximum allowable working pressure: non-restraint - water 10 bar, gas 4 bar



DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	kg
	1	3					
350x350fl	356-380	350f/PN10	360	551	240	8xM16	77.0
400x400fl	400-429	400f/PN10	360	600	240	10xM16	88.0
500x500fl	500-532	500f/PN10	360	720	240	10xM20	120.0
600x600fl	605-637	600f/PN10	360	820	240	12xM20	142.0

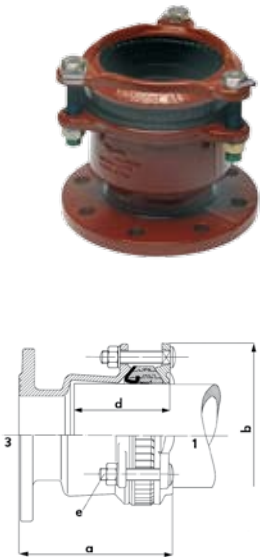
DN [mm]	code	
	NBR	EPDM
	non-restraint	non-restraint
350x350fl	709 008 255	709 008 655
400x400fl	709 008 260	709 008 660
500x500fl	709 008 264	709 008 664
600x600fl	709 008 270	709 008 670

\* For detailed information about the PFA (working pressure) please check the user manual.

## MULTI/JOINT® type 3150 & 3157 reduced flange adaptor

maximum allowable working pressure: non-restraint - water up to 25 bar, gas up to 8 bar \*

: restraint - water up to 16 bar, gas up to 8 bar \*

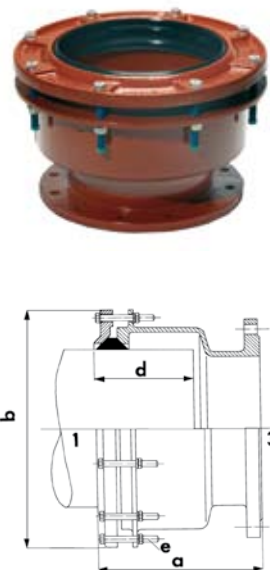


DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	kg
	1	3					
50x40fl	46-71	40fl/PN16	185-200	164	100	3xM12	5.0
65x80fl	69-90	80fl/PN16	198-210	186	95	3xM12	6.7
100x80fl	104-132	80fl/PN16	196-215	236	115	3xM16	9.1
125x100fl	132-155	100fl/PN16	197-215	264	110	4xM16	11.8
125x150fl	132-155	150fl/PN16	276-294	264	120	4xM16	13.2
225x200fl	232-257	200fl/PN10	274-301	386	190	6xM20	29.7
225x200fl	232-257	200fl/PN16	274-301	386	190	6xM20	29.7
225x250fl	232-257	250fl/PN10	212-239	386	130	6xM20	27.7
225x250fl	232-257	250fl/PN16	212-239	386	130	6xM20	27.7

DN [mm]	code					
	NBR			EPDM		
	restraint type 3157 with Fiksers		non-restraint type 3150	restraint type 3157 with Fiksers		non-restraint type 3150
	multi/fikser	poly/fikser		multi/fikser	poly/fikser	
50x40fl	709 457 208	-	709 450 208	709 457 608	-	709 450 608
65x80fl	709 457 218	-	709 450 218	709 457 618	-	709 450 618
100x80fl	709 457 224	709 459 224	709 450 224	709 457 624	709 459 624	709 450 624
125x100fl	709 457 232	709 459 232	709 450 232	709 457 632	709 459 632	709 450 632
125x150fl	709 457 238	709 459 238	709 450 238	709 457 638	709 459 638	709 450 638
225x200fl	709 457 278	709 459 278	709 450 278	709 457 678	709 459 678	709 450 678
225x200fl	709 457 279	709 459 279	709 450 279	709 457 679	709 459 679	709 450 679
225x250fl	709 457 280	709 459 280	709 450 280	709 457 680	709 459 680	709 450 680
225x250fl	709 457 281	709 459 281	709 450 281	709 457 681	709 459 681	709 450 681

## MULTI/JOINT® XL type 2650 reduced flange adaptor

maximum allowable working pressure: non-restraint - water 10 bar, gas 4 bar



DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	kg
	1	3					
350x300fl	356-380	300fl/PN10	360	551	240	8xM16	78.0
450x400fl	450-482	400fl/PN10	360	653	240	10xM16	94.0
550x500fl	548-580	500fl/PN10	360	765	240	12xM20	128.0

DN [mm]	code	
	NBR	EPDM
	non-restraint	non-restraint
350x300fl	709 008 250	709 008 650
450x400fl	709 008 262	709 008 662
550x500fl	709 008 266	709 008 666

\* For detailed information about the PFA (working pressure) please check the user manual.

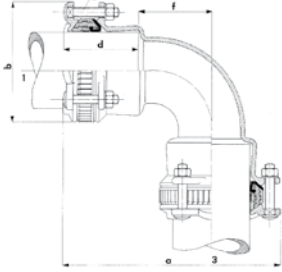


## MULTI/JOINT® type 3400 & 3407

**bend**

maximum allowable working pressure: non-restraint - water up to 25 bar, gas up to 8 bar \*  
: restraint - water up to 16 bar, gas up to 8 bar \*

DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	f [mm]	kg
	1	3						
80	84-105	84-105	291-315	204	115	3xM12	100	10.2
100	104-132	104-132	246-365	236	110	3xM16	125	13.6
150	154-192	154-192	417-445	304	120	4xM16	175	26.3



DN [mm]	code					
	NBR			EPDM		
	restraint type 3407 with Fiksers		non-restraint type 3400	restraint type 3407 with Fiksers		non-restraint type 3400
	multi/fikser	poly/fikser		multi/fikser	poly/fikser	
80	709 477 214	709 479 214	709 470 214	709 477 614	709 479 614	709 470 614
100	709 477 216	709 479 216	709 470 216	709 477 616	709 479 616	709 470 616
150	709 477 220	709 479 220	709 470 220	709 477 620	709 479 620	709 470 620

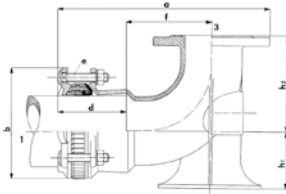


## MULTI/JOINT® type 3450 & 3457 <sup>1)</sup>

**duckfoot**

maximum allowable working pressure: non-restraint - water up to 25 bar, gas up to 8 bar \*  
: restraint - water up to 16 bar, gas up to 8 bar \*

DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	f [mm]	h1 [mm]	h2 [mm]	kg
	1	3								
80	84-105	80fl/PN16	380-394	204	115	3xM12	165	108	180	15.5
100	104-132	100fl/PN16	393-412	236	110	3xM16	167	135	180	15.6



DN [mm]	code					
	NBR			EPDM		
	restraint type 3457 with Fiksers		non-restraint type 3450	restraint type 3457 with Fiksers		non-restraint type 3450
	multi/fikser	poly/fikser		multi/fikser	poly/fikser	
80	709 487 214	709 489 214	709 480 214	709 487 614	709 489 614	709 480 614
100	709 487 216	709 489 216	709 480 216	709 487 616	709 489 616	709 480 616

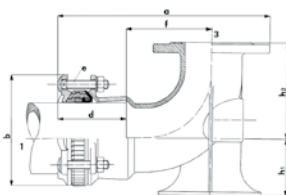


## MULTI/JOINT® type 3550 & 3557 <sup>1)</sup>

**reduced duckfoot**

maximum allowable working pressure: non-restraint - water up to 25 bar, gas up to 8 bar \*  
: restraint - water up to 16 bar, gas up to 8 bar \*

DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	f [mm]	h1 [mm]	h2 [mm]	kg
	1	3								
50x80fl	46-71	50fl/PN16	356-371	164	100	3xM12	140	90	174	12.7
100x80fl	104-132	80fl/PN16	408-426	236	110	3xM12	190	135	184	17.6
150x100fl	154-192	100fl/PN16	400-428	304	120	4xM16	169	160	180	21.1



DN [mm]	code					
	NBR			EPDM		
	restraint type 3557 with Fiksers		non-restraint type 3550	restraint type 3557 with Fiksers		non-restraint type 3550
	multi/fikser	poly/fikser		multi/fikser	poly/fikser	
50x80fl	709 197 213	-	709 490 213	709 497 613	-	709 490 613
100x80fl	709 497 224	709 499 224	709 490 224	709 497 624	709 499 624	709 490 624
150x100fl	709 497 238	709 499 238	709 490 238	709 497 638	709 499 638	709 490 638

Note: Multi/Fikser x Poly/Fikser on request

\* For detailed information about the PFA (working pressure) please check the user manual.

<sup>1)</sup> Available with threaded outlet (¾" - 2") on the rear



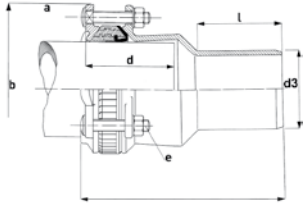


## MULTI/JOINT® type 3080 & 3087

**spigot end**

maximum allowable working pressure: non-restraint - water up to 25 bar, gas up to 8 bar \*  
: restraint - water up to 16 bar, gas up to 8 bar \*

DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	l [mm]	kg
	1	s						
50	46-71	63	204-219	164	100	3xM12	75	3.4
100	104-132	110	258-277	269	110	3xM16	120	7.4
150	154-192	160	289-317	304	120	4xM16	135	11.6
200	192-232	200	335-362	354	140	6xM20	145	21.1



DN [mm]	code					
	NBR			EPDM		
	restraint type 3087 with Fiksers		non-restraint type 3080	restraint type 3087 with Fiksers		non-restraint type 3080
	multi/fikser	poly/fikser		multi/fikser	poly/fikser	
50	709 337 210	-	709 330 210	709 337 610	-	709 330 610
100	709 337 216	709 339 216	709 330 216	709 337 616	709 339 616	709 330 616
150	709 337 220	709 339 220	709 330 220	709 337 620	709 339 620	709 330 620
200	709 337 229	709 339 229	709 330 229	709 337 629	709 339 629	709 330 629

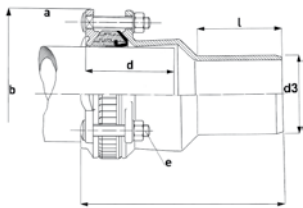


## MULTI/JOINT® type 3180 & 3187

**reduced spigot end**

maximum allowable working pressure: non-restraint - water up to 25 bar, gas up to 8 bar \*  
: restraint - water up to 16 bar, gas up to 8 bar \*

DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	l [mm]	kg
	1	s						
80	84-105	110	240-254	204	115	3xM12	120	5.7



DN [mm]	code					
	NBR			EPDM		
	restraint type 3187 with Fiksers		non-restraint type 3180	restraint type 3187 with Fiksers		non-restraint type 3180
	multi/fikser	poly/fikser		multi/fikser	poly/fikser	
80	709 337 224	709 339 224	709 330 224	709 337 624	709 339 624	709 330 624

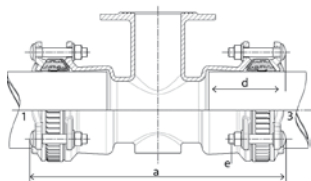


## MULTI/JOINT® type 3750 & 3757

**T-piece**

maximum allowable working pressure: non-restraint - water up to 25 bar, gas up to 8 bar \*  
: restraint - water up to 16 bar, gas up to 8 bar \*

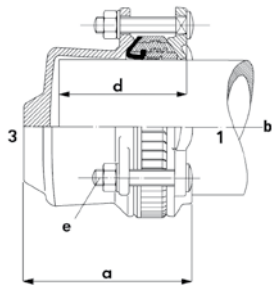
DN [mm]	connection			a [mm]	b [mm]	d [mm]	e [mm]	h [mm]	kg
	1	2	3						
100	104-132	80fl	104-132	400-438	236	110	3xM16	169	15.8
150	154-192	80fl	154-192	412-468	304	120	4xM16	184	23.7



DN [mm]	code					
	NBR			EPDM		
	restraint type 3757 with Fiksers		non-restraint type 3750	restraint type 3757 with Fiksers		non-restraint type 3750
	multi/fikser	poly/fikser		multi/fikser	poly/fikser	
100	709 507 226	709 509 226	709 500 226	709 507 226	709 509 226	709 500 226
150	709 507 234	709 509 234	709 500 234	709 507 234	709 509 234	709 500 234

Note: Multi/Fikser x Poly/Fikser on request

\* For detailed information about the PFA (working pressure) please check the user manual.



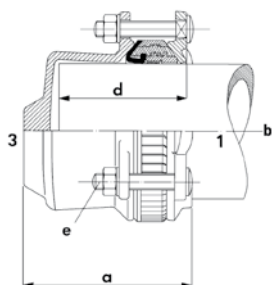
## MULTI/JOINT® type 3200 & 3207

## end-cap blind

maximum allowable working pressure: non-restraint - water up to 25 bar, gas up to 8 bar \*  
: restraint - water up to 16 bar, gas up to 8 bar \*

DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	kg
	1	3					
50	46-71	blind	115-130	164	100	3xM12	3.5
65	69-90	blind	145-157	186	95	3xM12	4.1
80	84-105	blind	142-156	204	115	3xM12	5.1
100	104-132	blind	144-163	236	110	3xM16	6.5
125	132-155	blind	151-169	264	120	4xM16	7.8
150	154-192	blind	149-177	304	120	4xM16	9.6
200	192-232	blind	180-207	354	140	6xM20	18.3
225	232-257	blind	211-242	386	145	6xM20	20.9
250	267-310	blind	214-249	432	170	6xM20	27.1
300	315-356	blind	219-254	490	170	8xM20	34.4

DN [mm]	code					
	NBR			EPDM		
	restraint type 3207 with Fiksers		non-restraint type 3200	restraint type 3207 with Fiksers		non-restraint type 3200
	multi/fikser	poly/fikser		multi/fikser	poly/fikser	
50	709 377 210		709 370 210	709 377 610		709 370 610
65	709 377 212		709 370 212	709 377 612		709 370 612
80	709 377 214	709 379 214	709 370 214	709 377 614	709 379 614	709 370 614
100	709 377 216	709 379 216	709 370 216	709 377 616	709 379 616	709 370 616
125	709 377 218	709 379 218	709 370 218	709 377 618	709 379 618	709 370 618
150	709 377 220	709 379 220	709 370 220	709 377 620	709 379 620	709 370 620
200	709 377 224	709 379 224	709 370 224	709 377 624	709 379 624	709 370 624
225	709 377 226	709 379 226	709 370 226	709 377 626	709 379 626	709 370 626
250	709 377 228	709 379 228	709 370 228	709 377 628	709 379 628	709 370 628
300	709 377 232	709 379 232	709 370 232	709 377 632	709 379 632	709 370 632



## MULTI/JOINT® type 3200 & 3207

## end-cap thread

maximum allowable working pressure: non-restraint - water up to 25 bar, gas up to 8 bar \*  
: restraint - water up to 16 bar, gas up to 8 bar \*

DN [mm]	connection		a [mm]	b [mm]	d [mm]	e [mm]	kg
	1	3					
50	46-71	3/4" - 2"	115-130	164	100	3xM12	3.5
65	69-90	3/4" - 2"	145-157	186	95	3xM12	4.1
80	84-105	3/4" - 2"	142-156	204	115	3xM12	5.1
100	104-132	3/4" - 2"	144-163	236	110	3xM16	6.5
125	132-155	3/4" - 2"	151-169	264	120	4xM16	7.8
150	154-192	3/4" - 2"	149-177	304	120	4xM16	9.6
200	192-232	3/4" - 2"	180-207	354	140	6xM20	18.3
225	232-257	3/4" - 2"	211-242	386	145	6xM20	20.9
250	267-310	3/4" - 2"	214-249	432	170	6xM20	27.1
300	315-356	3/4" - 2"	219-254	490	170	8xM20	34.4

\* For detailed information about the PFA (working pressure) please check the user manual.

DN [mm]	Rp [inch]	code					
		NBR			EPDM		
		restraint type 3207 with Fiksers		non-restraint type 3200	restraint type 3207 with Fiksers		non-restraint type 3200
	multi/fikser	poly/fikser		multi/fikser	poly/fikser		
50	¾"	709 387 204		709 380 204	709 387 604		709 380 604
65	¾"	709 387 209		709 380 209	709 387 609		709 380 609
80	¾"	709 387 214	709 389 214	709 380 214	709 387 614	709 389 614	709 380 614
100	¾"	709 387 219	709 389 219	709 380 219	709 387 619	709 389 619	709 380 619
125	¾"	709 387 224	709 389 224	709 380 224	709 387 624	709 389 624	709 380 624
150	¾"	709 387 229	709 389 229	709 380 229	709 387 629	709 389 629	709 380 629
200	¾"	709 387 234	709 389 234	709 380 234	709 387 634	709 389 634	709 380 634
225	¾"	709 387 249	709 389 249	709 380 249	709 387 649	709 389 649	709 380 649
250	¾"	709 387 239	709 389 239	709 380 239	709 387 639	709 389 639	709 380 639
300	¾"	709 387 244	709 389 244	709 380 244	709 387 644	709 389 644	709 380 644
50	1"	709 387 205		709 380 205	709 387 605		709 380 605
65	1"	709 387 210		709 380 210	709 387 610		709 380 610
80	1"	709 387 215	709 389 215	709 380 215	709 387 615	709 389 615	709 380 615
100	1"	709 387 220	709 389 220	709 380 220	709 387 620	709 389 620	709 380 620
125	1"	709 387 225	709 389 225	709 380 225	709 387 625	709 389 625	709 380 625
150	1"	709 387 230	709 389 230	709 380 230	709 387 630	709 389 630	709 380 630
200	1"	709 387 235	709 389 235	709 380 235	709 387 635	709 389 635	709 380 635
225	1"	709 387 250	709 389 250	709 380 250	709 387 650	709 389 650	709 380 650
250	1"	709 387 240	709 389 240	709 380 240	709 387 640	709 389 640	709 380 640
300	1"	709 387 245	709 389 245	709 380 245	709 387 645	709 389 645	709 380 645
50	1 ¼"	709 387 206		709 380 206	709 387 606		709 380 606
65	1 ¼"	709 387 211		709 380 211	709 387 611		709 380 611
80	1 ¼"	709 387 216	709 389 216	709 380 216	709 387 616	709 389 616	709 380 616
100	1 ¼"	709 387 221	709 389 221	709 380 221	709 387 621	709 389 621	709 380 621
125	1 ¼"	709 387 226	709 389 226	709 380 226	709 387 626	709 389 626	709 380 626
150	1 ¼"	709 387 231	709 389 231	709 380 231	709 387 631	709 389 631	709 380 631
200	1 ¼"	709 387 236	709 389 236	709 380 236	709 387 636	709 389 636	709 380 636
225	1 ¼"	709 387 251	709 389 251	709 380 251	709 387 651	709 389 651	709 380 651
250	1 ¼"	709 387 241	709 389 241	709 380 241	709 387 641	709 389 641	709 380 641
300	1 ¼"	709 387 246	709 389 246	709 380 246	709 387 646	709 389 646	709 380 646
50	1 ½"	709 387 207		709 380 207	709 387 607		709 380 607
65	1 ½"	709 387 212		709 380 212	709 387 612		709 380 612
80	1 ½"	709 387 217	709 389 217	709 380 217	709 387 617	709 389 617	709 380 617
100	1 ½"	709 387 222	709 389 222	709 380 222	709 387 622	709 389 622	709 380 622
125	1 ½"	709 387 227	709 389 227	709 380 227	709 387 627	709 389 627	709 380 627
150	1 ½"	709 387 232	709 389 232	709 380 232	709 387 632	709 389 632	709 380 632
200	1 ½"	709 387 237	709 389 237	709 380 237	709 387 637	709 389 637	709 380 637
225	1 ½"	709 387 252	709 389 252	709 380 252	709 387 652	709 389 652	709 380 652
250	1 ½"	709 387 242	709 389 242	709 380 242	709 387 642	709 389 642	709 380 642
300	1 ½"	709 387 247	709 389 247	709 380 247	709 387 647	709 389 647	709 380 647
50	2"	709 387 208		709 380 208	709 387 608		709 380 608
65	2"	709 387 213		709 380 213	709 387 613		709 380 613
80	2"	709 387 218	709 389 218	709 380 218	709 387 618	709 389 618	709 380 618
100	2"	709 387 223	709 389 223	709 380 223	709 387 623	709 389 623	709 380 623
125	2"	709 387 228	709 389 228	709 380 228	709 387 628	709 389 628	709 380 628
150	2"	709 387 233	709 389 233	709 380 233	709 387 633	709 389 633	709 380 633
200	2"	709 387 238	709 389 238	709 380 238	709 387 638	709 389 638	709 380 638
225	2"	709 387 253	709 389 253	709 380 253	709 387 653	709 389 653	709 380 653
250	2"	709 387 243	709 389 243	709 380 243	709 387 643	709 389 643	709 380 643
300	2"	709 387 248	709 389 248	709 380 248	709 387 648	709 389 648	709 380 648

# Product range overview

Georg Fischer Waga N.V. is the jointing technology specialist, offering a complete range of products that have been used in the water & gas market for many years. No matter how complicated your connection problem is, we can offer you a solution when it comes to:

## Connecting

- MULTI/JOINT®
- ST-System
- Draw-Lock®
- FGR, Stainless steel couplings
- Plast/Joint®

## Repairing

- WAL/V, Bell joint leak clamps
- Multi/Clamp, Stainless steel repair clamps

## Tapping

- Multi/Clamp, threaded / flanged saddles
- Multi/Saddle Plus
- Drilling device W400

## Additional products and spare parts

- Street covers
- Insert stiffeners
- Hydrants
- Valves
- Ratchet spanners

## Assuring a reliable and safe connection

- for dimensions DN25-2800 and all kinds of pipe materials
- for pressure ratings upto and including 48 bar
- connection to pumps, housings and more
- integration in existing pipelines

## Temporary or long term maintenance of the pipe

- for all pipe materials in utility, industrial systems, shipbuilding, etc.
- under pressure or pressureless repair
- under pressure repair of bell-joints, AC pipes and more

## Under pressure or pressureless tapping

- to install house connections
- no interruption of supply
- for installations of valves, hydrants and service lines

The technical data are not binding and not expressly warranted characteristics of the goods. They are subject to change. Please consult our General Conditions of Supply.

**Georg Fischer Waga N.V.**

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