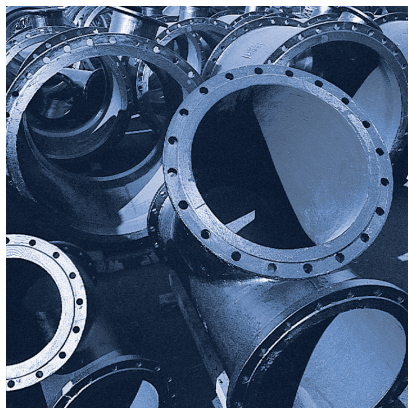


Rotatable flanged fittings DN 40 to 600

A complete
versatile
durable range



Editorial



PAM

offering of rotatable flanged fittings

As a manufacturer and supplier of products for hydraulic networks, PAM has been mobilizing its competencies at all levels to ensure the complete mastery and safety of your pipe systems for 150 years.

PAM integrates its experience in the field of water with its expertise in product quality, durability and versatility to offer a complete range of rotatable flanged fittings to adapt to your different site requirements.

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ILLUSTRATED CATALOGUE

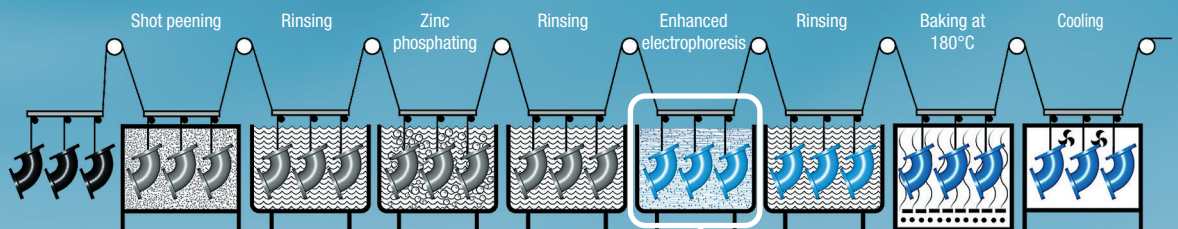
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A complete range of flanged fittings

Enhanced durability

On the strength of the proven performance of the NATURAL range of socket fittings with electrophoretic epoxy coating, designed for drinking water supply systems, PAM naturally opted to use the same process for its flanged fittings, choosing a 70 µm thick blue epoxy coating applied by electrophoresis.

The electrophoresis coating process involves the combination of careful surface preparation by shot peening, followed by a surface treatment by zinc phosphating, known as parkerizing, before applying the epoxy coating by electrophoresis.

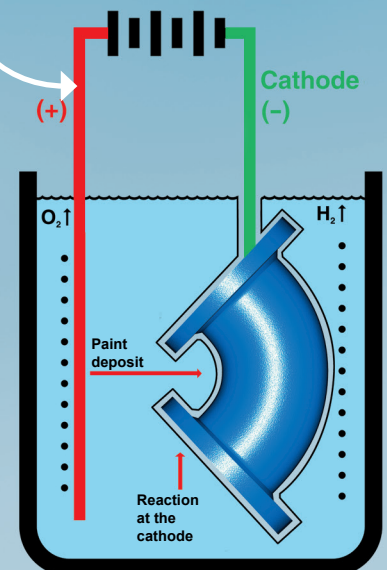


Application of the epoxy coating by electrophoresis

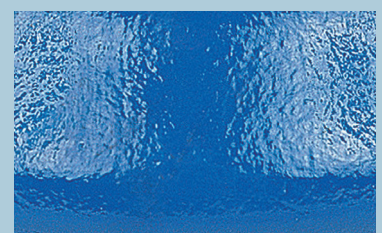
The electrophoresis coating process offers a great many advantages:

- it ensures a constant coating thickness over the whole external and internal surfaces regardless of the geometrical complexity,
- it results in an epoxy coating with enhanced impact resistance thanks to the surface preparation,
- if the coating is accidentally damaged, the zinc phosphate based surface treatment limits the development of corrosion,
- the coating performance is compatible with buried installation in most soils. (See EN 545-2002, Appendix D).

This coating is also suitable for above ground installation, in chambers or in galleries. Tests carried out in accordance with the test procedure specified in ISO 9227 show that the coating provides excellent resistance (withstanding more than 200 hours' exposure to salt spray without degradation).



Electrophoresis coating process



PAM

rotatable flanged fittings, the ideal solution for **all** circumstances



Versatile, rotatable flanged fittings can be used for a variety of applications, both in the public utilities area and in industrial environments, for the following purposes:

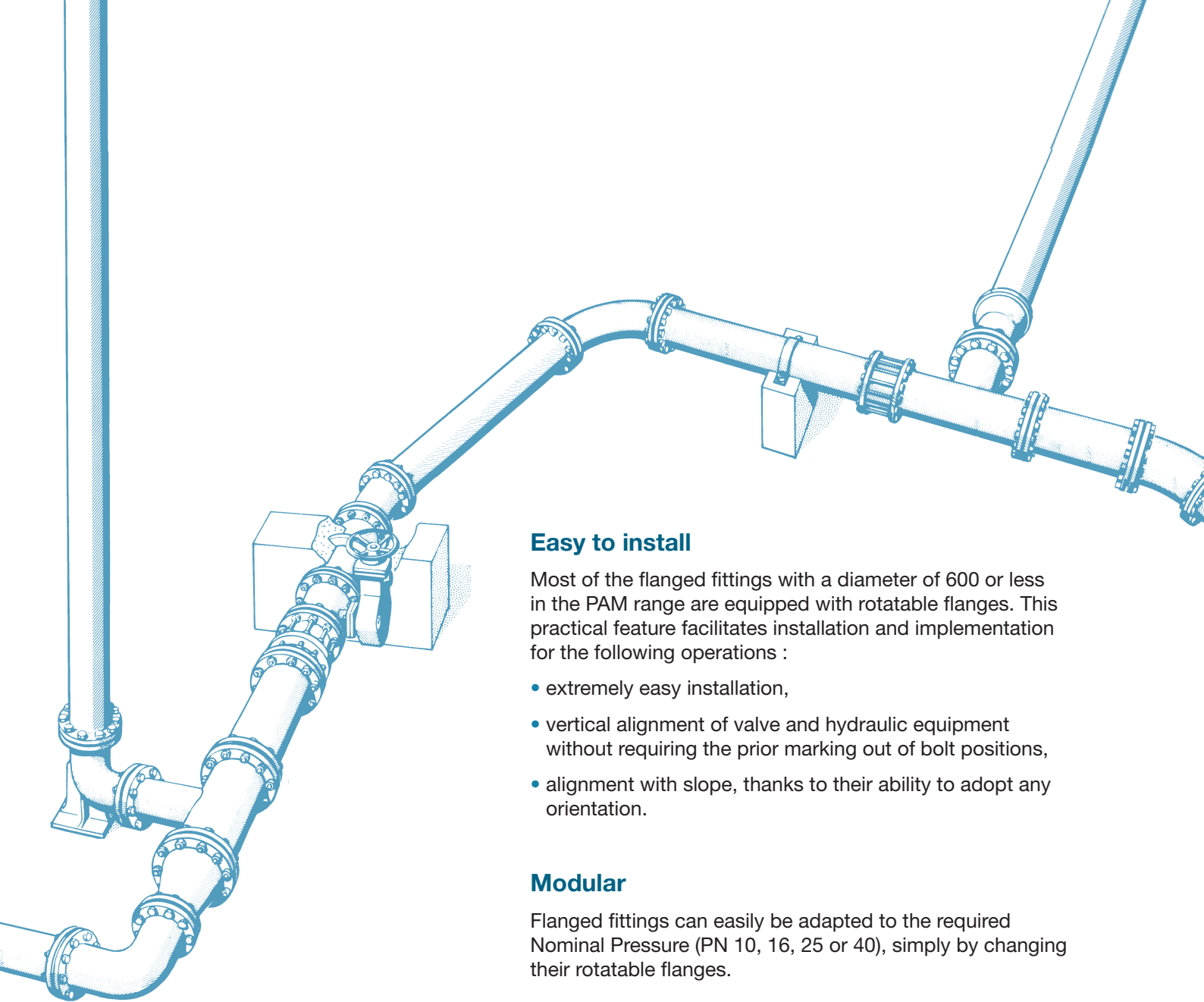
- construction of network nodes whatever types of pipes are used,
- installation of valves on buried systems or in valve chambers for the shut-off or balancing of networks,
- equipment for specific systems, such as fire safety systems,
- construction of general underground or above-ground systems carrying water under pressure (for treatment plants,...).



Practical, the innovative design of the rotatable flanged fittings developed by PAM is demonstrated in the following applications:

- construction of complex, multi-material pipe systems,
- installation of self-anchoring lengths of pipe when the construction of anchor blocks is impossible or unadvisable,
- on-line dismantling for maintenance operations, modifications or installation inspections,
- great adaptability for pre-assembly operations on site,
- connection of all types of pipes thanks to our wide range of couplings.





Easy to install

Most of the flanged fittings with a diameter of 600 or less in the PAM range are equipped with rotatable flanges. This practical feature facilitates installation and implementation for the following operations :

- extremely easy installation,
- vertical alignment of valve and hydraulic equipment without requiring the prior marking out of bolt positions,
- alignment with slope, thanks to their ability to adopt any orientation.

Modular

Flanged fittings can easily be adapted to the required Nominal Pressure (PN 10, 16, 25 or 40), simply by changing their rotatable flanges.

Compliance with standards and regulations

- The flanged fittings comply with standard EN 545.
- The flanges comply with standard EN 1092.
- The materials coming into contact with drinking water are in accordance with European regulations on drinking water.

PAM

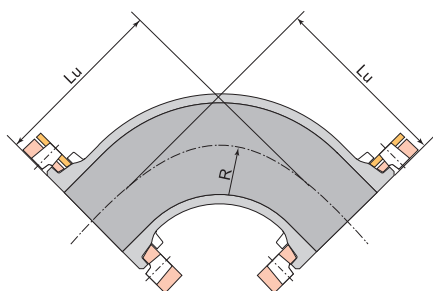
rotatable flanged fittings, **the ideal solution for all circumstances**

Rotatable flanged fittings

Bends



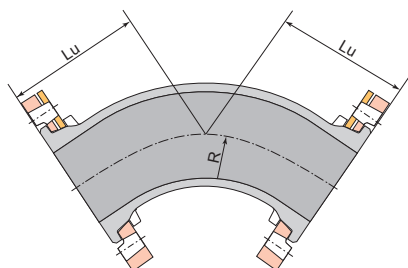
1/4 bends



The weights given include rotatable flanges.
 DN > 600 : Please consult us.
 * All values are approximate.

Dimensions			Weights *			
DN	Lu	R*	PN 10	PN 16	PN 25	PN 40
mm	mm	mm	kg	kg	kg	kg
40	140	58	6.3			
50	150	58	7.3			
60	160	59	5.4		5.4	
80	165	74	7.2		7.2	
100	180	87	8.5		10.9	
125	200	115	12.1		15.4	
150	220	133	15.9		20.1	
200	260	160	27.4	27.2	30.2	31.0
250	350	240	48.5	52.5	53.5	67.1
300	400	290	68.8	67.4	74.6	93.2
350	450	350	121.0	123.0	135.0	-
400*	500	400	163.5	171.5	190.0	-
450*	550	452	207.0	221.0	239.0	-
500*	600	495	265.0	287.0	306.0	-
600*	700	581	388.0	431.0	453.0	-

1/8 bends

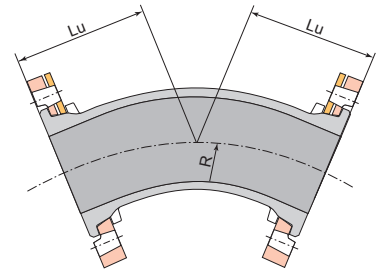


The weights given include rotatable flanges.
 DN > 600 : Please consult us.
 * All values are approximate.

Dimensions			Weights *			
DN	Lu	R*	PN 10	PN 16	PN 25	PN 40
mm	mm	mm	kg	kg	kg	kg
40	140	143	6.5			
50	150	143	7.6			
60	130	143	5.6		5.7	
80	130	95	6.6		6.6	
100	140	115	7.6		10.0	
125	150	158	10.8		14.1	
150	160	177	14.0		18.1	
200	180	193	23.3	23.1	26.1	26.9
250	245	297	40.5	39.7	45.5	38.9
300	275	346	56.1	54.7	61.9	80.5
350	306	346	100	102	114	-
400	337	360	124	133	151	-
450	370	452	158	171	185	-
500	395	459	197	223	235	-
600	463	595	289	339	345	-

Dimensions			Weights *			
DN	Lu	R*	PN 10	PN 16	PN 25	PN 40
mm	mm	mm	kg	kg	kg	kg
40	94	67	5.4			
50	104	67	6.5			
60	114	67	4.6		4.0	
80	105	75	6.0		6.0	
100	110	87	6.7		9.1	
125	105	100	8.9		12.2	
150	109	115	11.4		15.4	
200	131	155	19.6	19.4	22.4	23.2
250	190	191	33.9	33.1	38.9	52.5
300	210	226	48.0	46.4	53.8	72.4
350	215	264	84.2	85.8	98.0	-
400	239	325	92.0	113.0	119.0	-
450	253	360	128.0	141.0	155.4	-
500	272.5	402	143	169	181	-
600	320.5	522	211	261	268	-

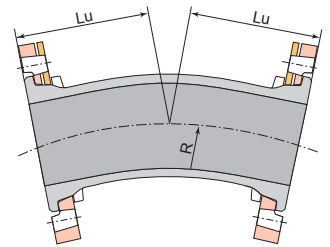
1/16 bends



The weights given include rotatable flanges.
 DN > 600 : Please consult us.
 * All values are approximate.

Dimensions			Weights *			
DN	Lu	R*	PN 10	PN 16	PN 25	PN 40
mm	mm	mm	kg	kg	kg	kg
40	99	187	5.6			
50	109	187	6.6			
60	119	187	4.7		4.8	
80	113	233	6.2		6.2	
100	115	228	6.9		9.2	
125	111	274	9.2		12.5	
150	113	274	11.6		15.7	
200	132	324	19.7	19.5	22.5	23.3
250	165	238	31.7	30.9	36.7	50.3
300	175	264	42.8	41.4	48.6	67.3
350	191	288	80.0	81.6	93.8	-
400	203	315	85.0	106.0	112.0	-
450	220	627	120.0	133.0	147.4	-
500	232.5	417	131.0	157.0	169.0	-
600	274.5	588	192.0	242.0	248.0	-

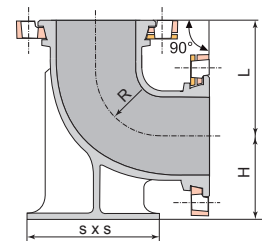
1/32 bends



The weights given include rotatable flanges.
 DN > 600 : Please consult us.
 * All values are approximate.

Dimensions						Weights *			
DN 1	DN 2	L	H	SxS	R	PN 10	PN 16	PN 25	PN 40
mm	mm	mm	mm	mm	mm	kg	kg	kg	kg
40	40	140	100	160	58	8.8			
50	50	150	100	160	58	9.9			
60	60	160	100	160	58	9.8			
80	80	165	110	180	74	13.0			
100	100	180	125	200	87	15.8		18.2	
125	125	200	140	225	115	21.5		24.5	
150	150	220	160	250	133	29.5		33.5	
200	200	260	190	300	160	48.0		51.0	
250	250	350	225	350	240	85.0	84.5	90.0	111.0
300	300	400	255	400	290	118.5	117.0	124.5	158.0
350**	350**	450	294	450	366	165.0	170.0	185.0	-
400**	400**	500	324	500	409	218.0	218.0	242.0	-
450**	450*	550	355	350	452	275.0	289.0	307.0	-
500*	500**	600	385	600	495	349.0	371.0	390.0	-
600**	600**	700	455	700	581	525.0	568.0	590.0	-

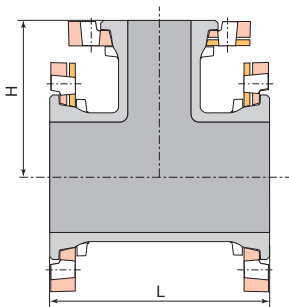
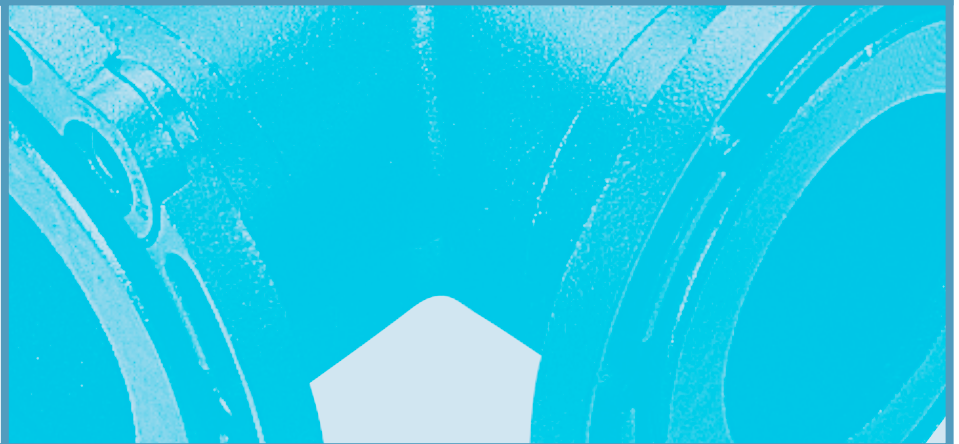
Duckfoot bends



The weights given include rotatable flanges.
 DN > 600 : Please consult us.
 * All values are approximate.
 ** Integral flanges

Rotatable flanged fittings

Tees



Dimensions				Weights **			
DN body	DN tube	L	H	PN 10	PN 16	PN 25	PN 40
mm	mm	mm	mm	kg	kg	kg	kg

40	40	300	140	9.3			
----	----	-----	-----	-----	--	--	--

60	40	320	140	10.7	10.3		
	60	320	160	11.6	10.3		

80	40	330	140	13.1	13.1		
	60	330	160	13.6	13.9		
	80	330	165	14.5	-		

100	40	360	150	15.7	17.4		
	60	360	160	16.4	17.9		
	80	360	175	17.1	19.3		
	100	360	180	18.0	20.5		

125	40	400	165	20.7	23.5		
	60	400	185	21.5	23.9		
	80	400	190	22.5	25.5		
	100	400	195	23.4	26.8		
	125	400	200	24.4	28.2		

150	40	440	175	25.0	30.0		
	60	440	195	27.7	30.5		
	80	440	205	28.4	32.0		
	100	440	210	29.6	33.5		
	125	440	210	31.1	35.5		
	150	440	220	33.4	38.0		

200	40	520	200	41.5	41.5	44.5	48.0
	60	520	220	42.3	41.8	42.0	48.0
	80	520	235	43.2	43.2	46.5	51.0
	100	520	240	44.1	44.1	48.0	52.0
	125	520	240	45.6	45.6	50.0	54.0
	150	520	250	48.0	47.5	52.0	56.0
	200	520	260	52.0	51.0	55.5	57.4

The weights given include rotatable flanges.
 DN > 600 : Please consult us.
 * These tees can be used as draining tees.
 ** All values are approximate.

Dimensions				Weights **			
DN body	DN tube	L	H	PN 10	PN 16	PN 25	PN 40
mm	mm	mm	mm	kg	kg	kg	kg

250	60	360	272	51.8	50.8	56.0	61.0
	80	430	250	57.7	56.9	63.0	80.6
	100*	425	270	51.3	49.6	56.7	81.3
	150	447	280	62.5	61.5	68.9	86.5
	200	540	290	73.2	72.3	80.0	99.0
	250	600	300	84.0	83.0	92.0	118.0

300	60	450	297	73.8	71.8	79.0	112.0
	80	450	298	74.7	72.7	81.0	103.0
	100*	450	300	68.1	66.6	74.3	120.0
	150	560	310	88.5	86.5	96.0	125.0
	200	560	320	93.0	92.0	108.0	136.0
	250	680	305	108.0	106.0	117.0	149.0
	300	680	340	117.0	115.0	126.0	165.0

350	60	424	322	88.8	90.8	103.0	
	80	470	310	96.7	97.7	110.0	
	100*	470	330	96.6	97.6	111.0	
	150	590	340	112.5	113.5	128.0	
	200	590	350	117.0	119.0	132.0	
	250	645	360	129.0	130.0	145.1	
	300	760	370	143.0	144.0	151.0	
	350	760	380	157.0	159.0	178.0	

400	80	490	340	113.7	122.5	140.0	
	100*	490	360	113.6	122.6	141.0	
	150	605	370	132.5	141.5	160.0	
	200	605	380	136.5	145.4	164.9	
	250	724	390	158.0	167.0	187.0	
	300	725	400	163.8	172.1	193.7	
	400	840	420	194.5	208.0	235.0	

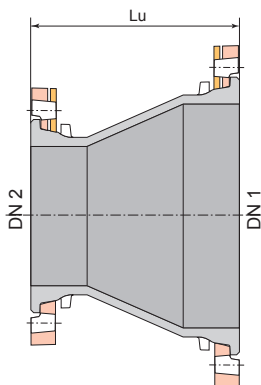
450	100	515	395	140.1	153.0	168.2	
	150	620	400	143.5	156.3	172.2	
	200	620	410	174.5	187.3	203.1	
	250	730	420	180.0	192.4	209.6	
	300	730	430	186.0	195.7	218.8	
	400	906	450	228.0	245.0	259.0	
	450	906	460	237.0	256.0	277.8	

500	100*	533	420	167.6	193.6	206.0	
	150	650	430	191.5	217.5	230.0	
	200	650	440	196.0	222.0	235.0	
	250	768	450	223.0	249.0	263.0	
	300	768	460	229.0	255.0	270.0	
	400	880	480	263.0	293.0	314.0	
	500	1000	500	306.0	345.0	363.0	

600	100	700	475	254.7	304.6	311.0	
	200*	700	500	265.0	315.0	322.0	
	300	812	520	302.8	352.1	359.0	
	400	930	540	344.0	398.0	413.0	
	500	1100	550	568.8	632.0	644.0	
	600	1100	580	444.0	519.0	528.0	

Rotatable flanged fittings

Tapers



Dimensions			Weights *			
DN 1	DN 2	Lu	PN 10	PN 16	PN 25	PN 40
mm	mm	mm	kg	kg	kg	kg
60	40	200	7.1	7.3	6.4	5.9
	50	216	8.1	8.3	5.9	6.4
80	40	200	7.7	7.7	7.7	7.7
	50	251	8.2	8.2	8.2	8.2
	60	200	8.3	8.3	8.4	8.4
100	40	200	8.3	8.3	8.9	8.9
	50	249	8.8	8.8	9.7	9.7
	60	200	9.0	9.0	9.7	9.7
	80	200	10.1	10.1	11.2	11.2
125	40	280.5	9.5	9.5	12.0	12.0
	50	290.5	11.2	11.2	12.5	12.5
	60	300	11.4	11.4	12.5	12.5
	80	200	11.9	11.9	13.4	13.4
	100	200	12.4	12.4	14.5	14.5
150	40	331.5	13.7	13.7	15.2	15.2
	50	341.5	13.2	13.2	15.7	15.7
	60	351.5	14.4	14.4	16.7	16.7
	80	311	14.8	14.8	16.6	16.6
	100	272.5	14.8	14.8	17.2	17.2
	125	200	15.8	15.8	18.6	18.6
200	100	385	22.4	22.4	24.7	25.1
	125	326.5	22.7	22.7	25.4	25.8
	150	272.5	23.0	23.0	26.0	28.3
250	125	370	22.7	22.7	25.4	25.8
	150	319	23.0	23.0	26.0	47.0
	200	300	33.5	33.0	37.0	53.0
300	150	424	45.5	45.0	50.0	
	200	323	48.8	48.0	53.1	73.9
	250	300	52.9	51.8	58.3	
350	200	439	63.6	64.3	71.9	
	250	372	60.5	61.5	70.5	
	300	300	66.4	66.5	76.2	
400	250	447	75.0	78.5	70.5	
	300	380	75.0	78.4	76.2	
	350	300	79.3	84.2	100.5	
450	300	457	92.0	98.0	110.0	
	350	363	92.0	99.0	114.0	
	400	300	89.0	100.0	117.0	
500	350	600	151.0	165.0	177.1	
	400	600	127.5	144.8	160.0	
600	400	600	183.0	212.0	224.0	
	450	600	223.0	230.0	263.0	
	500	600	173.8	212.0	221.0	

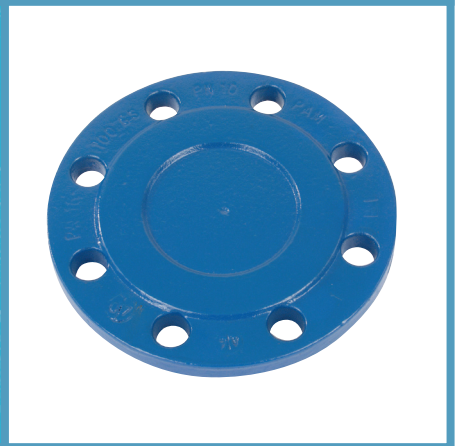
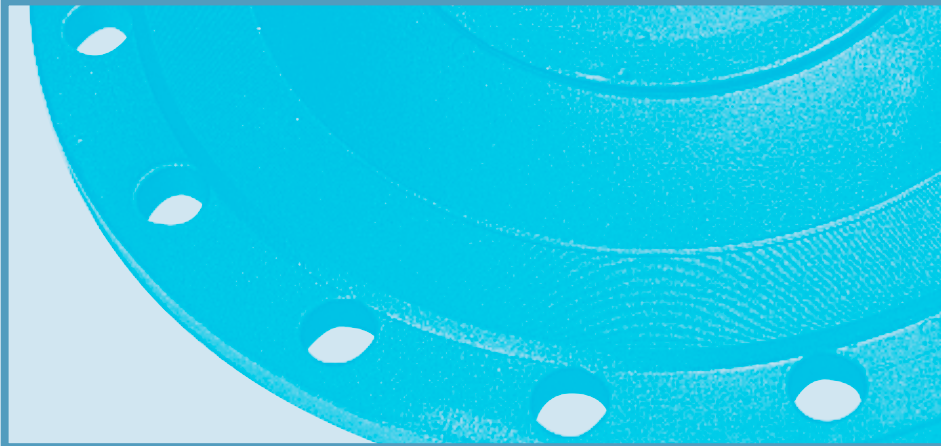
The weights given include rotatable flanges.

DN > 600 : Please consult us.

* All values are approximate.

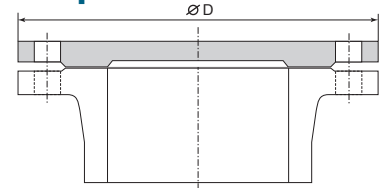
Blank flanges

Flanged fittings



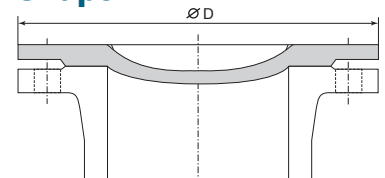
Dimensions				Weights *		
DN 1	D			PN 10	PN 16	PN 25
	PN 10	PN 16	PN 25			
mm	mm	mm	mm	kg	kg	kg
60	175	175	175	2.7	2.7	2.6
80	200	200	200	3.5	3.5	3.5
100	220	220	235	4.3	4.3	4.8
125	250	250	270	5.6	5.6	6.5
150	285	285	300	7.2	7.2	8.6
200	340	340	360	11.0	11.0	13.9
250	400	400	425	16.9	16.9	22.0
300	455	455	485	26.5	26.5	33.0
350	505	520	555	32.5	37.5	37.5
400	565	580	620	45.5	43.5	63.0
450	615	640	670	55.0	64.0	80.0
500	670	715	730	70.0	84.0	101.0
600	780	840	845	106.0	133.0	156.0

Shape 1



DN 60 - 250 PN 10.16
DN 60 - 100 PN 25

Shape 2

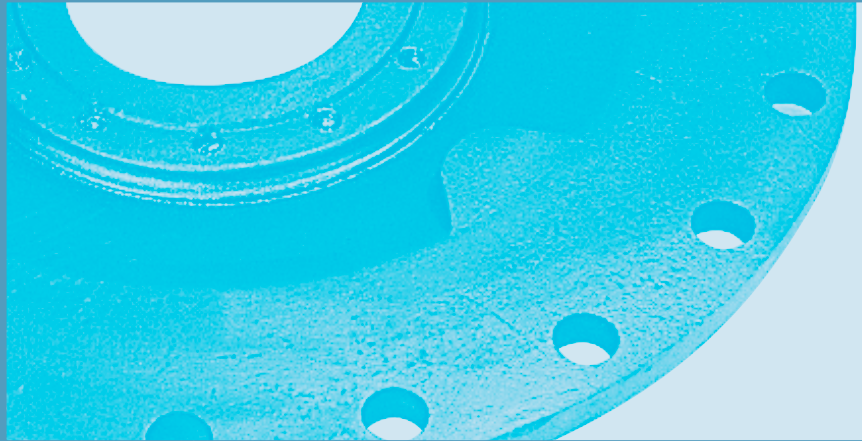
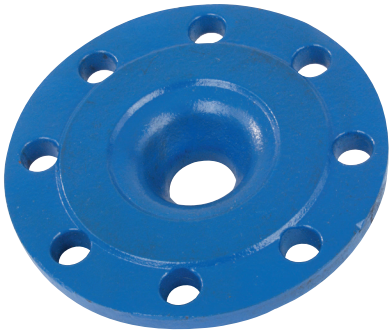


DN 300 - 600 PN 10.16
DN 125 - 600 PN 25

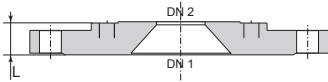
DN > 600: Please consult us.
PN 40: Please consult us.
* All values are approximate.

Flanged fittings

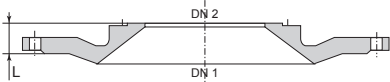
Reducing flanges



Shape 1



Shape 2



DN 1	DN 2	Dimensions				Weights *		
		L				PN 10	PN 16	
		PN 10	PN 16	PN 10	PN 16			
mm	mm	mm	forme	mm	forme	kg	kg	
100	40	40	1	40	1	4.5	4.5	
	200	80	40	1	40	1	10.9	10.9
		100	40	1	40	1	10.9	10.9
250	100	125	40	1	40	1	10.8	10.6
		250	100	42	1	42	1	17.9
	300	100	41.5	2	36.5	2	24.9	24.9
150		43	2	43	2	27.2	25.7	
200		46	1	46	2	27.7	29.1	
400	250	46	2	48	2	37.8	43.4	
	600	100	20	2	22	2	44.9	47.9
		150	31	2	29	2	46.7	51.7
		200	46	2	47	2	47.7	50.6
		250	48	2	50	2	55.8	51.9
300		49	2	51	2	43.8	48.4	
600	100	2	2	4	2	105.9	131.9	
	150	8	2	10	2	106.7	133.7	
	200	17	2	20	2	108.7	130.6	
	450	60	2	66	2	67.9	104.0	

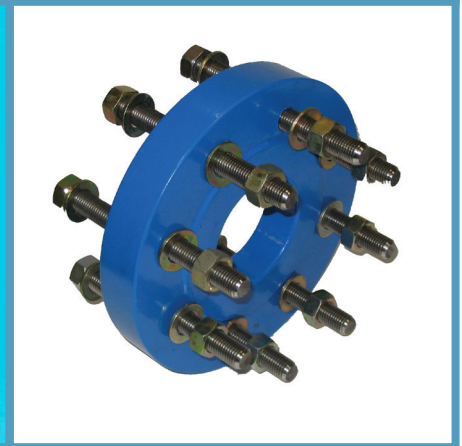
PN 25: Please consult us.

DN > 600 : Please consult us.

* All values are approximate.

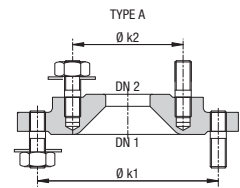
Reducing flanges

Flanged fittings



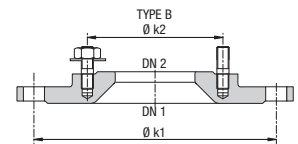
Dimensions & Weights *								
DN 1	DN 2	Bolting	PN 10			PN 16		
			Ø k1	Ø k2	kg	Ø k1	Ø k2	kg
mm	mm		mm	mm	kg	mm	mm	kg
60	40	Double	135	110	5.7	135	110	5.7
	50	Double	135	125	5.6	135	125	5.6
80	40	Double	160	110	5.1	160	110	5.1
	50	Double	160	125	5.6	160	125	5.6
	60	Double	160	135	5.4	160	135	5.4
100	40	Double	180	210	6.6	180	210	6.6
	50	Double	180	110	6.3	180	110	6.3
	60	Double	180	135	6.5	180	135	6.5
	65	Double	180	145	6.5	180	145	6.5
	80	Double	180	160	6.9	180	160	6.9
125	60	Double	210	135	8.2	210	135	8.2
	80	Double	210	160	8.0	210	160	8.0
	100	Double	210	180	7.6	210	180	7.6
150	60	Single	240	135	10.8	240	135	10.8
	80	Single	240	160	10.7	240	160	10.7
	100	Double	240	180	11.2	240	180	11.2
200	60	Single	295	135	14.8	295	135	14.7
	80	Single	295	160	14.7	295	160	14.5
	100	Single	295	180	15.0	295	180	14.9
	125	Single	295	210	13.7	295	210	13.6
	150	Double	295	240	16.5	295	240	16.6
250	80	Single	350	160	22.1	355	160	22.3
	100	Single	350	180	21.9	355	180	22.2
	150	Single	350	240	20.0	355	240	20.7
	200	Double	350	295	21.3	355	295	21.6
300	100	Single	400	180	27.0	410	180	30.0
	150	Single	400	240	33.0	410	240	36.0
	200	Single	400	295	25.0	410	295	28.0
	250	Double	400	350	28.0	410	350	31.0

Type A



Double bolting

Type B

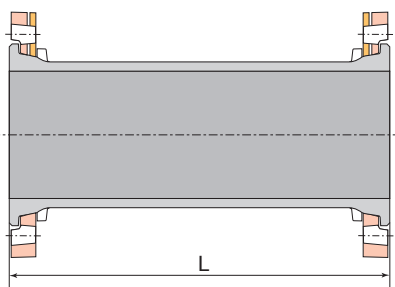


Single bolting

*These parts have a 250 µ thick epoxy coating.
* All values are approximate.*

Rotatable flanged fittings

Short double flanged pipes



Dimensions		Weights *			
DN	L	PN 10	PN 16	PN 25	PN 40
mm	mm	kg	kg	kg	kg
60	250	6.6	6.6	6.6	6.6
	500	10.4	10.4	9.4	9.4
80	250	9.8	9.8	9.8	9.8
	500	13.3	13.3	13.3	13.3
100	250	11.5	11.5	12.5	12.5
	500	13.4	13.4	14.4	14.4
125	250	15.0	15.0	16.7	16.7
	500	20.5	20.5	21.4	21.4
150	250	19.0	19.0	21.0	21.0
	500	26.0	26.0	28.0	28.0
200	250	26.5	26.0	29.0	30.1
	500	36.5	36.0	39.5	42.0
250	250	38.5	38.0	43.5	64.0
	500	54.0	53.0	59.0	79.0
300	250	50.0	49.0	56.0	80.0
	500	69.5	68.5	75.5	106.0
350	250	69.2	70.8	83.0	-
	500	98.7	100.3	112.5	-
400	250	69.1	77.1	95.5	-
	500	113.7	122.7	140.7	-
450	250	85.0	98.0	115.0	-
	500	114.5	127.5	143.5	-
500**	250	113.0	118.6	147.0	-
	500	162.6	167.8	196.0	-
600**	250	153.8	169.9	209.0	-
	500	219.5	235.7	274.0	-

DN > 600 : Please consult us.

* All values are approximate. .

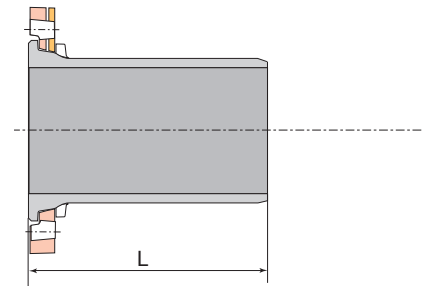
** Integral flanges

Flanged spigots

Rotatable flanged fittings



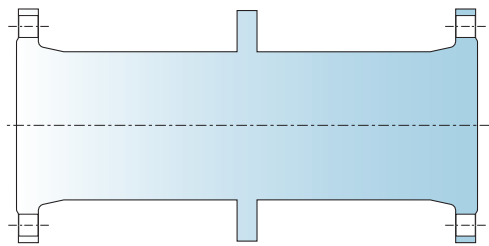
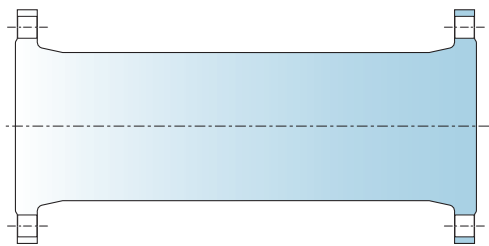
Dimensions		Weights *			
DN	L	PN 10	PN 16	PN 25	PN 40
mm	mm	kg	kg	kg	kg
60	350	6.0	6.0	5.6	5.6
80	350	8.0	8.0	8.0	8.0
100	350	8.6	8.6	6.5	6.5
125	350	10.9	10.9	8.6	8.6
150	400	14.0	14.0	15.0	15.0
200	400	20.6	20.5	22.0	22.4
250	400	34.0	33.5	32.0	34.7
300	450	46.8	46.1	41.6	69.0
350	450	58.6	59.4	65.5	-
400	480	70.0	74.0	83.0	-
450	495	86.0	92.0	100.0	-
500	520	104.0	117.0	123.0	-
600	595	144.0	169.5	172.0	-



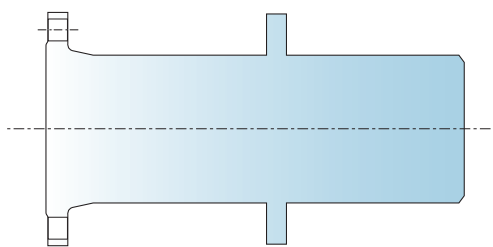
DN > 600 : Please consult us.
*** All values are approximate.**

PAM also offers a range of products with fixed flanges on request :

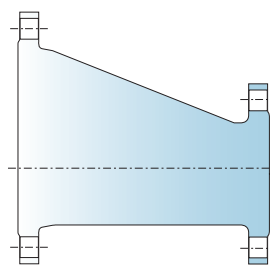
Flanged pipes with or without puddle flange



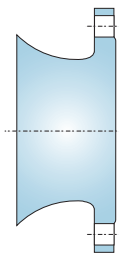
Flanged spigots with puddle flange



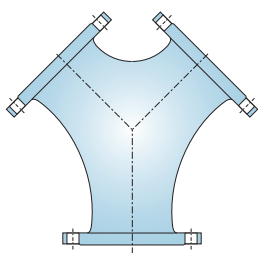
Flat tapers



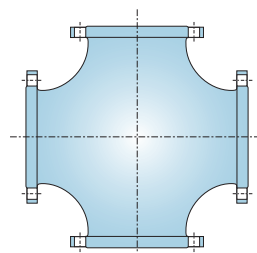
Flanged bellmouths



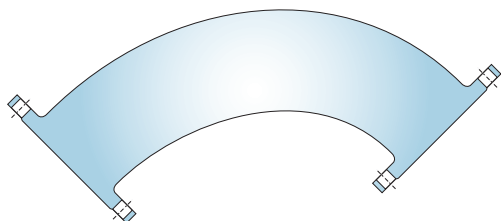
Flanged Y pipes



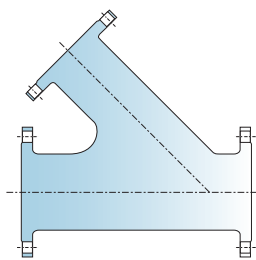
Flanged crosses



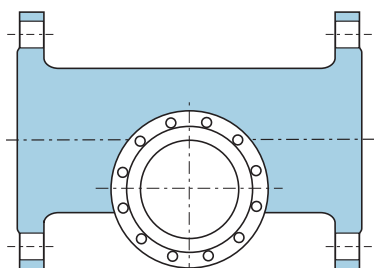
Long radius bends



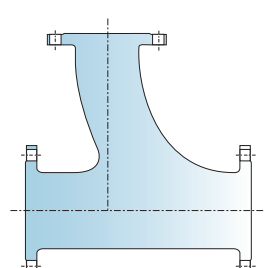
Flanged 45° bends



Flanged level invert tees

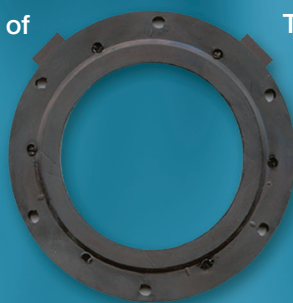


Flanged radial tees

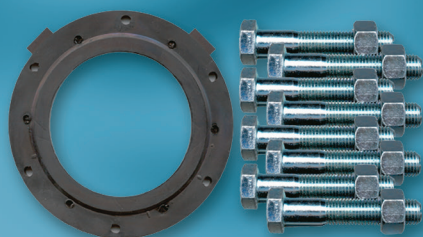


For the installation of your flanged fittings, PAM recommends the use of metal reinforced gaskets. These gaskets:

- offer excellent mechanical strength and prevent any risk of extrusion in service,
- are easy to fit thanks to centring lugs,
- ensure tight sealing of the joint at lower tightening torques.



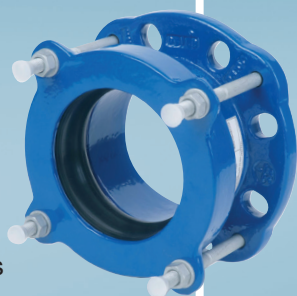
These gaskets comply with standard EN 681-1.



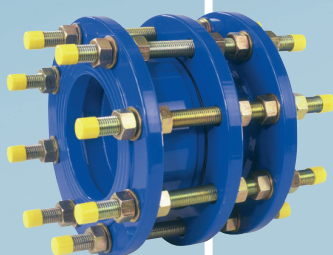
For diameters until 300 mm, we can also supply complete joint sets, complete with metal insert gasket, bolts and washers.

PAM also offers a wide range of couplings that can be fitted on flanged parts:

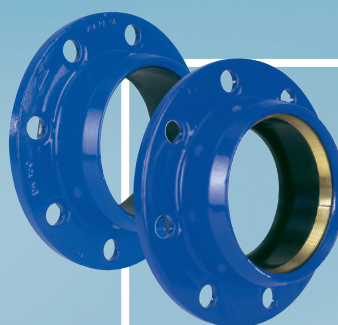
UltraQUICK:
Flange adaptor
with very wide tolerances



**Self-anchoring
dismantling joints**



QUICK PVC:
Simple version,
or anchored version



QUICK fonte:
Simple
or anchored version



To find out more about these products, please consult the PAM valves and fittings catalogue.

Think about flanged fittings
when installing
valves



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