





FILTERS EXPANSION JOINTS

FILTERS



Filters in cast iron PN 16

N 92500	with flanged	outlets
N 92510	with thread	outlets

Materials

Body and bonnet in cast iron - bucket in stainless steel.

Features

Art. 92500

- Y shaped body;

- Bolted bonnet for Item N. 92500 and screwed bonnet for Item N. 92510;

- Extractable bucket;
- Drainage plug on the body on request.

Test pressure: 24 bar

UNI flanges PN 16 with raised face and seal groove, or gas thread socket outlets.

Filters in steel PN 40

N 92520	with flanged outlets
N 92530	with thread outlets

Materials

Body and bonnet in steel - bucket in stainless steel.

Features

- Y shaped body;
- Bolted bonnet forItem N. 92520 and screwed bonnet for Item N. 92530;
- Extractable bucket;
- Drainage plug on the body on request.

UNI flanges PN 16 with raised face and seal groove, or gas thread socket outlets.

92510 PN 16	Working pressure: 16 bar up to 120°C For other temperatures see Table UNI 1284												
	15	20	25	32	40	50	65	80	100	125	150	175	200
DN	1/2	3/4	1	1 1/4	1 1/2	2	-	-	-	-	-	-	-
D	95	105	115	140	150	165	185	200	220	250	285	315	340
L	130	150	160	180	200	230	290	310	350	400	480	550	600
L ₁	88	110	125	125	150	160	-	-	-	-	-	-	-

Art. 92520 92530 PN 40	Test pro Working For othe	Test pressure: 60 bar Working pressure: 40 bar up to 120°C For other temperatures see Table UNI 1284												
-	-	15	20	25	32	40	50	65	80	100	125	150	175	200
DN	3/8	1/2	3/4	1	1 1/4	1 1/2	2	-				-	-	-
D	-	95	105	115	140	150	165	185	200	235	270	300	350	375
L	-	130	150	160	180	200	230	290	310	350	400	480	550	600
L ₁	90	90	110	110	198	-	-	-	-	-	-	-	-	-













Art. 92530

Art. 92510

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FILTERS

Filters in bronze PN 10

N 92560	with flanged outlets
N 92570	with thread outlets

Materials

Body and bonnet in bronze - bucket in stainless steel.

Features

Y shaped body - bonnet screwed ion the body extractable bucket . UNI flanges PN 10 or PN 6 on request - gas thread sockets

Floodgate filter in bronze PN10 with thread outlets

N 92590

Materials

Body and bonnet in bronze - flat floodgate with stainless steel net - gas thread socket outlets.

DN 1/2 - 3/4 - 1 - 1 1/4

Art. 92560 92570 PN 16	Test pressure: 16 bar Working pressure: 10 bar up to 40°C; 5 bar at 250°C For other temperatures see Table UNI 1284										
	-	15	20	25	32	40	50	65	80	-	100
DN	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
D (PN 6)	-	80	90	100	120	130	140	160	190	-	210
D (PN 10)	-	95	105	115	140	150	165	185	200	-	220
L	-	90	115	130	145	170	190	210	220	-	260
L ₁	55	60	70	85	100	110	130	150	170	200	220



Art. 92560



Art. 92570





Bellows expansion joints PN 16

N 92600	with short type - flanged outlets
N 92610	with long type - flanged outlets
N 92620	with short type - welding outlets
N 92630	with long type - welding outlets

Other nominal pressures on request

Materials

Flanges and welding parts in steel - bellows in stainless steel AISI 304 or 321 for other temperatures. On request, the bellows can be supplied in stainless steel, special alloys, or with outside and inside wall in special alloy.

Features

The bellows is multiple - walled in order to ensure maximum flexibility, and it has no weldings on the circumference. The compensator must always be installed between two fixed points, as it cannot absorb the inside pressure force. It can absorb axial contractions or expansions, and can also be usefully employed as disasembling joint in order to replace the components of a piping (e.g. valves), espacially in case of fixed flanges.

Options

C with steel conveyer it, which is installed inside the bellows, avoids the direct contact between fluid and bellows and it is advisable when there is a danger of erosion or when it is necessary to reduce the pressure drops or the bellows temperature. It is also advisable with highly viscous fluids.

Working pressures

The working pressure must lower proportionally to the raising temperature and will be reduced to half of the niminal pressure when the temperature reaches 500 °C. For higher temperature, please consult our Technical Office.

Strokes

The admittable strokes at 25°C are shown in Table. The admittable stroke lowers proportionally to the raising temperature, and will be reduced to 70% at 300 °C; this rduce value can be applied up to 500°C. For higher temperatures please consult our Technical Office.



Art. 92600 92610







Art. 92600 92620	Short type						
-						Stroke mm	
DN	D	d	d1	L	-	+	Totale
20	105	26,9	32	180	15	5	20
25	115	33,7	40	180	15	5	20
32	140	42,4	50	190	19	6	25
40	150	48,3	56	190	22	8	30
50	165	60,3	70	205	22	8	30
65	185	76,1	87	215	22	8	30
80	200	88,9	100	215	22	8	30
100	220	114,3	127	215	22	8	30
125	250	139,7	152	250	26	9	35
150	285	168,3	175	250	26	9	35
200	340	219,1	235	280	30	10	40
250	405	273,0	290	280	30	10	40
300	460	323,9	345	320	37	13	50

Art. 92610 92630	Long type						
DN						Stroke mm	
DN	D	a	a ₁	L	-	+	Totale
20 25 32 40 50 65 80 100 125 150 200 250 300	105 115 140 150 165 185 200 220 250 285 340 405 460	26,9 33,7 42,4 48,3 60,3 76,1 88,9 114,3 139,7 168,3 219,1 273,0 323,9	32 40 50 56 70 87 100 127 152 175 235 290 345	200 200 215 215 270 270 270 320 320 320 350 350 440	19 19 22 26 30 30 33 37 37 37 43 43 43 58	6 6 8 9 10 10 12 13 13 13 13 15 15 15	25 25 30 35 40 40 45 50 50 50 50 58 58 77

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Neoprene expansion joints PN 10

N 92650	with flanged outlets
N 92660	with thread outlets

Materials

Soket in neoprene with nylon cloth reinforcements galvanized steel flanges - unions in three pieces in galvanized malleable iron.

Features

The neoprene socket allows compression and expansion axial compensations (lateral and angular); it is thus possible to compensate frame or ground settling measurement, assembling faults, or thermic expansions in the pipings. Noise and vibrations are also absorbed, hindering their propagation through the pipings. The rotating flanges are sized and drilled according to

UNI PN 10 Tables; the bolts must be inserted with their heads towards the inside part of the joint, so that they canno come in contact with the rubber socket even after the possible defromations.

The unions in three pieces are gas threaded. During the assembling phase, avoid twisting the rubber socket.





Art. 92660



Axial movement of compression



Axial movement of extension



· Chin

Lateral Movement





PN 10	Working pressure: 10 bar from -30°C up to +110°C Maximum depressure: 740 mm Hg							
DN	Free lenght	D	Movements (not contemporaneous)CompressionExtensionLateralAngular					
32 40 50 65 80 100 125 150 200 250 300	95 95 120 128 157 157 157 157 157 208 208	140 150 165 185 200 220 250 285 340 395 445	12 12 16 16 16 22 22 22 22 22 22 22 22 32 32	6 6 10 13 13 13 13 13 13 13 13 19 19	6 6 10 13 13 13 13 13 13 13 13 19 19	20 20 20 20 20 20 20 20 20 20 20 20 20 2		

Art. 92660 PN 10	Working pressure: 10 bar from -20°C up to +30°C; 7 bar at 105°C Maximum depressure: 650 mm Hg									
			Movimenti (non	contemporanei)						
DN	Free lenght L	Compression mm	CompressionExtensionLateralAngularmmmm± mm± degree							
3/4 1 1 1/4 1 1/2 2 2 1/2 3	200 200 200 200 200 200 200	22 22 22 22 22 22 22 22 22	6 6 6 6 6 6	22 22 22 22 22 22 22 22 22	45 45 45 45 45 45 45					



Telescope expansion joint

N 92680

In bronze - cap grand - amianthus gasket - gas thread socket outlets

Antivibration joint PN 16 with flanged outlets

N 92700

Other nominal pressure on request

Materials

Bellows in stainless steel AISI 321 - flanged ends in steel - sheath made up by interlaced stainless steel threads.

Features

The bellows is multiple walled in order to supply the maximum flexibility and it has no weldings on its circumference. The outside sheath absortbs the pressure force. The joint is suitable to eliminate the vibrations caused by pumps, compressors, diesel motors etc.

Flanges sized and drilled according to UNI PN 16 Tables.

Antivibration joint PN 16 with welding outlets

N 92710

Materials and features as in item N 92700

Art. 92680	Working pressure: 16 bar up to 40°C; 8 bar at 250°C For other temperatures see Table UNI 1284								
DN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
L Corsa	120 40	135 40	145 45	160 45	170 50	185 55	210 65	220 70	280 90

Art. 92700							
DN	80	100	125	150	200	250	300
D L*	200 235	220 255	250 260	285 270	340 310	405 360	460 360

(*) Other lenghts on request.

Art. 92710								
DN	15	20	25	32	40	50	65	80
d L	21,3 270	26,9 300	33,7 320	42,4 320	48,3 360	60,3 360	70,0 400	88,9 400



Art. 92680



Angular expansion joints bellows PN 16

N 92740	with flanged outlets
N 92760	with thread outlets

Materials

Flanges or welding outlets and link rods in steel bellows in stainless steel AISI 304 or 321 for high temperatures.

Features

The multiple - walled bellows offers maximum flexibility. The compensator can absorb the inside pressure force, provided that its two hands are linked by hinged rods which contrast the axial deformations allowing, on the other side, great angular deformations. The best employ of this joint is obtained in the compensation of linear expansion in pipings having some right angles, as shown in th assembling scheme.

The joint should be installed about 1 m. far from the piping angle.

UNI PN 16 flanges or buttwelding outlets.

Art. 92740 92760 PN 16	Working pressure : 16 bar - cold ; 8 bar at 500 °C For other tempertures please consult our Technical Office					
DN	D	d	L	Angular deformation ± C		
40	150	48,3	265	20°		
50	165	60,3	300	19°		
65	185	76,1	300	16°		
80	200	88,9	320	14°		
100	220	114,3	320	11°		
125	250	139,7	360	10°		
150	285	168,3	400	10°		
200	340	219,1	490	8°		
250	405	273,0	520	6°		
300	460	323,9	560	6°		









Art. 92760



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Dismantling joints

N 92780	two flanges type
N 92790	three flanges type

Materials

Joints wholly made in steel with rubber gasket.

Features

The gage of this joints can be varied within certain limits by acting on the assembling tie-rods. The strocke "C" of

the two flanges type is limited to 5 mm for all sizes, while in the three flanges type it can be adjusted from 30 to 140 mm according to the DN.

These joints allow the disassembling and the successive re-assembling of valves filters, etc. on rigid pipings, an operation which is very difficult if not impossible especially on great diameter pipings.

With the three flanges model it is even possible (within the stroke limits) to replace a vive with another one having a slightly different gage.

The joints can be supplied in series UNI PN 6 - 10 - 16 - 25 - 40 and ANSI 150 - 300 for DN between 100 and 2000.

DN	Art. 9 Two fla	92780 nge type	Art. 92790 Three flanges type			
	L	С	Lmax	L _{min}	С	
100 125 150 200 250	95 95 105 115 115	5 5 5 5 5 5	200 200 200 220 220	170 170 170 190 190	30 30 30 30 30 30	
300 350 400 450 500	115 125 135 135 135 135	5 5 5 5 5 5	220 220 250 250 250 280	190 190 220 220 240	30 30 30 30 40	
600 700 800 900 1000	150 150 180 180 210	5 5 5 5 5 5	280 320 320 350 350	240 270 270 290 290	40 50 50 60 60	
1200 1400 1600 1800 2000	210 230 250 250 250	5 5 5 5 5 5	400 450 500 550 600	320 360 400 430 460	80 90 100 120 140	

