

Compression fittings and clamp saddles PP



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FIELDS OF APPLICATION

Donsen compression fittings and clamp saddles are designed specifically for connecting polyethylene pipes with an outside diameter of 16-110 mm (135 mm for clamp saddles). They are fully compatible with all PE100, PEHD, PE40, PE80 and PE100 pipes complying with EN 12201, ISO 4427, ISO 14236, ISO 13460, DIN 8074. They are normally used to convey drinking water and fluids at pressures up to 16 bar for generic applications. The quality of the materials used makes these fittings resistant to etching by numerous chemical substances and to UV-rays. The Donsen universal fitting can be used to connect systems using PE metric piping with existing pipes made of any material, with external diameters of 15-34 mm.

STANDARDS

Fittings and saddles

Complying with UNI 9561, UNI 9562, DIN 8076-3, ISO 14236, ISO 13460.

Threads

Complying with ISO 7/1, DIN 2999, BS 21

Flanges

Complying with UNI 2278, DIN 8063

QUALITY CERTIFICATIONS

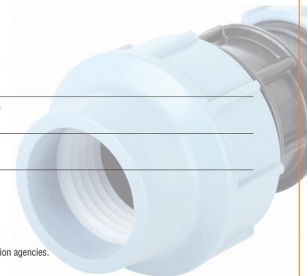
Donsen fittings have been tested and approved by all the leading certification agencies. Donsen quality system is UNI EN ISO 9001:2000 certified.

OPERATING TEMPERATURES

Fittings and clamp saddles are not suitable for use with hot water for the limits dictated by the use of polyethylene pipes.

Maximum operating temperatures refer to the use of polyethylene pipes; it is therefore necessary to refer to the regulations applicable in the country of use. The fittings and clamp saddles can withstand temperatures below 0°C. The table below shows the maximum operating pressure during continuous operation (PFA) with changes in temperature if the liquid conveyed is water, in compliance with EN 805, EN 12201 and ISO 13761. For values falling within the set range, a linear interpolation can be obtained.

Operating T [°C]	<20°	25°	30°	35°	40°	45°
PFA [bar]	16	14.9	13.9	12.9	11.8	10.8
PFA [bar]	10	9.3	8.7	8	7.4	6.7



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TENSILE STRENGTH

All Donsen fittings undergo tensile strength tests with the loads shown in the table below, in compliance with the strictest standards and regulations.

PIPE PE 100-PN16		
Ø (mm)	F (N)	F (kgf)
16	833	85
20	1220	125
25	1774	181
32	2950	301
40	4557	466
50	7018	722
63	11250	1148
75	15719	1604
90	22736	2320
110	33859	3469



FEM Analysis-Distribution of the stresses in the universal fitting ring nut are subjected to combined tensile stresses and pressure

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Technical data

The Donsen compression fittings line has been designed for the conveyance of fluids at high pressures, for water conveyance, for potable water distribution and applications in the thermo-hydraulic sector. This product line is designed in accordance with the most severe international standards in terms of mechanical properties and alimentary compatibilities.



Materials

Part	Material	Colour
Body (B)	Polypropylene block copolymer (PP-B) of exceptional mechanical properties even at high temperatures.	black
Nut (E)	Polypropylene with dye master of high stability to UV rays and solid to heat (grade according to standard DIN 54004).	blue (RAL 5005)
Clinching ring (C)	Polyacetal resin (POM) with high mechanical resistance and hardness.	white
Blocking bush (D)	Polypropylene	black
O Ring gasket (E)	Special elastomeric acrylonitrile rubber (NBR) for alimentary use	black
Reinforcing ring	AISI 430 (UNI XBO-17.1 or 14828) Stainless steel for female threads for 1-1/4" to 4"	

Sanitary Prescriptions

The Compression fittings line is suitable for the conveyance of potable water and alimentary fluids according to the most important national and international standards.

Working Pressures

The Compression fittings allows the maximum working pressure (PFA*) of 16 bar (UNI 9562) at the temperature of 20°C.

Reference Standards

Dimensions UNI 9561
Working Pressure: UNI 9562, DIN 8076-3, ISO 14236, BRL-403.
Tube in Polyethylene (PE) / Polyethylene (PE) Pipes:
UNI 7990, DIN 8074, UNI EN 12201
Threads: UNI ISO 7/1, UNI EN 10226-1, ANSI ASME B1-20.1
Flanges: DIN 2501-1, UNI EN 1452-3, ISO 7005-2

Materials

Compression fittings

- 1a. Threaded metal insert in brass stamped in the body.
- 1b. Body: Polypropylene block copolymer (PP-B) of exceptional mechanical properties even at high temperatures.
2. O Ring gasket: Special elastomeric acrylonitrile rubber (NBR) for alimentary use
3. Blocking bush: Polypropylene
4. Clinching ring: Polyacetal resin (POM) with high mechanical resistance and hardness.
5. Nut: Polypropylene with dye master of high stability to UV rays and solid to heat (8 grade according to standard DIN 54004)



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Technical data

The Clamp Saddle line has been designed for side outputs on Polyethylene pipes (PE) and it is available in the following range of sizes.



Item 2024/2045 with single or double output. They have diameters for the coupling with Ø20 to Ø315mm pipes and threaded outputs (1/2" to 3").
Item 2022/2023 with single or double output. They have diameters for the coupling with Ø20 to Ø315mm pipes and threaded outputs (1/2" to 4"), provided with 2 and 4 bolts according to the diameters, and metal grommet on the output threads.

Sanitary Prescriptions

The Clamp Saddle line is fit for conveying food fluids because its materials are conform to the national and international standard in force.

Lab tests

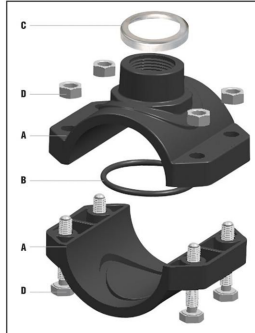
The high quality of the products is ensured by periodical quality audits, through strict lab tests, under the most severe testing conditions.

Working Pressures

The Clamp saddle line allows a maximum working pressure (PN-PFA*) from 4 to 16 bar, at a temperature of 20°C.

Reference Standards

Pipes: UNI 7990, DIN 8074, UNI EN 12201
Threads: UNI ISO 717, UNI ISO 228/1, ANSI ASME B1-20.1
International standards: ISO 13460



Part	Material	Colour
Body and cover (A)	Black mastered polypropylene copolymer, with a high level of stabilization to UV.	black
Gasket (B)	Acrylonitrile elastomeric Rubber (NBR) 70 Shore A	black
Reinforcing ring (C)	AISI 430 (UNI X8Cr17.W nr 14528)	
Bolts (D)	Stainless steel for type 105-106 only chromium-plated galvanized steel Screws and nuts made of chromium-plated galvanized steel. Threaded hexagonal-head screws UNI 5739 Nuts compliant with UNI 5588	zinc chromate steel

Compression fittings and clamp saddles pp

ASSEMBLY INSTRUCTIONS...

Compression fittings 16mm - 63mm



1. Cut the pipe squarely using special pipe cutting tools or circular or hand saw. It is advisable to use a guide box to ensure a square cut.



2. Eliminate any burrs and bevel the end of the pipe to facilitate easy assembly and to prevent damage to the fitting gasket. The outer surface of the pipe must be free from imperfections or indentations where the body of the fitting makes contact with the pipe.



3. Unscrew the blue nut and put it onto pipe followed by the white clamping ring. Make sure the clamping ring is in the correct position, with the largest diameter facing the fitting.



4. Press the pipe axially into the fitting, past the gasket, until it touches the internal register inside the fitting body.



5. Tighten the ring nut by hand and then use the torque wrench provided. The ring nut must be tight, but it does not need to reach the end of the fitting body.

ASSEMBLY INSTRUCTIONS...

Compression fittings 75mm - 110mm



1. Cut at 90° the pipe extremity to be connected and eliminate possible flashes.



2. Unscrew of 3-4 turns the fitting nut and make sure that the OR and the blocking bush are in the highlight position.



3. Introduce the pipe into the fitting until it reaches the three ribs in the inside wall of the fitting body.



4. Screw the nut up to the end using a belt or chain wrench.



Assembling instructions

Clamp saddles - alternative procedure -



1. Select the hole point and make sure that the external surface of the pipe is free from any impurity; put the gasket into the indentation of the saddle seat.



3. Drill a hole in the pipe wall, be careful not to damage the thread and the D.



5. Drill the hole in the pipe wall being careful not to damage the other side of the pipe and remove the scrap.



2. Position the bottom part of the saddle on the chosen point and couple the upper part, then insert the screws from below and tighten the nuts one by one.



4. Use a marker to draw a reference line on the pipe to allow reinstalling the saddle, ensure the nuts and remove the saddle.

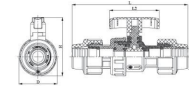


6. Assemble the saddle according to the marked lines, to keep the hole in the same axis with the saddle's screw hole.

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Single union ball valve PN16 (Straight insert)

COD. 2027

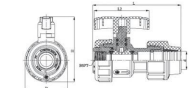


SIZE	d	BSPT	Thd./in	L	L2	D	H	PN	Qty/cn	Weight/cn(kg)
20x1/2"	20	-	149	64	50	75	16	120	28.2	28.2
25x3/4"	25	-	167	69	55	85	16	150	32.5	32.5
32x1"	32	-	187	75	60	100	16	80	30.4	30.4
40x1 1/4"	40	-	224	85	70	110	16	40	25.0	25.0
50x1 1/2"	50	-	262	95	80	120	16	20	25.0	25.0
63x2"	63	-	310	110	100	140	16	12	19.8	19.8

Carton size (mm): 400x390x380

Single union ball valve PN16 (Female thread and ST)

COD. 2028

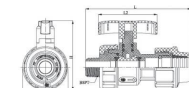


SIZE	d	BSPT	Thd./in	L	L2	D	H	PN	Qty/cn	Weight/cn(kg)
20x1/2"	20	14	103	64	50	75	16	220	28.2	28.2
25x3/4"	25	14	119	69	55	85	16	150	32.5	32.5
32x1"	32	11	132	75	60	100	16	100	30.4	30.4
40x1 1/4"	40	11	154	85	70	110	16	50	23.1	23.1
50x1 1/2"	50	11	176	95	80	120	16	30	25.0	25.0
63x2"	63	11	217	110	100	140	16	18	21.4	21.4

Carton size (mm): 400x390x380

Single union ball valve PN16 (male thread and ST)

COD. 2029



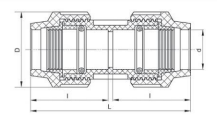
SIZE	d	BSPT	Thd./in	L	L2	D	H	PN	Qty/cn	Weight/cn(kg)
20x1/2"	20	14	114	64	50	75	16	220	28.8	28.8
25x3/4"	25	14	131	69	55	85	16	140	30.2	30.2
32x1"	32	11	148	75	60	100	16	90	27.8	27.8
40x1 1/4"	40	11	171	85	70	110	16	50	24.3	24.3
50x1 1/2"	50	11	194	95	80	120	16	40	26.2	26.2
63x2"	63	11	236	110	100	140	16	18	22.5	22.5

Carton size (mm): 400x390x380



Coupling

COD. 2001

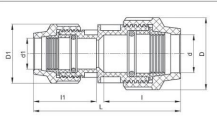


dxG	D	L	I	PN	Qty/cdn	Weight(ctn/kg)
20x20	45	108	52	16	240	19.4
25x25	55	122	59	16	144	17.7
32x32	65	139	68	16	96	17.7
40x40	79	158	82	16	60	19.9
50x50	94	186	102	16	36	18.9
63x63	113	248	121	16	18	18.9
75x75	129	278	136	16	14	16.9
90x90	155	318	162	16	8	13.9
110x110	185	422	205	16	4	13.9

Carton size(mm): 490x390x80

Reducing coupling

COD. 2002



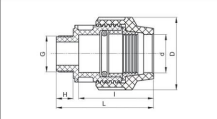
dxG1	D	D1	L	I	PN	Qty/cdn	Weight(ctn/kg)
25x20	55	45	126	57	16	160	16.6
32x20	65	45	139	70	16	112	16.2
32x25	65	55	143	70	16	112	16.3
40x25	79	55	158	85	16	65	15.0
40x32	79	65	163	88	16	65	17.0
50x25	94	55	186	100	16	42	14.6
50x32	94	65	192	100	16	42	15.3
50x40	94	79	197	102	16	42	16.3
63x25	113	55	182	119	16	27	14.7
63x32	113	65	184	119	16	26	14.4
63x40	113	79	204	121	16	26	16.4
63x50	113	94	245	130	16	18	13.9
75x25	129	55	205	145	16	14	13.2
75x32	129	65	248	150	16	8	12.5
90x40	155	113	296	157	16	8	13.3
90x50	155	129	318	162	16	8	13.3
110x60	185	155	379	201	16	5	13.9

Carton size(mm): 490x390x80

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Male adaptor

COD. 2003

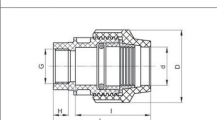


dxG	D	L	I	H	PN	Qty/cdn	Weight(ctn/kg)
20x1/2"	45	81	61	16	16	240	18.3
20x3/4"	45	82	61	17	16	240	18.7
20x1"	45	84	62	20	16	240	18.9
25x1/2"	55	89	69	16	16	144	17.8
25x3/4"	55	90	69	17	16	144	18.0
25x1"	55	91	70	20	16	144	18.4
32x1/2"	65	98	74	16	16	96	16.3
32x3/4"	65	99	74	17	16	96	16.7
32x1"	65	101	77	20	16	96	17.2
40x1/2"	79	110	89	16	16	60	17.4
40x3/4"	79	111	89	17	16	60	17.7
40x1"	79	112	90	20	16	60	18.2
50x1/2"	94	121	104	16	16	36	16.8
50x3/4"	94	122	105	17	16	36	17.1
50x1"	94	123	106	20	16	36	17.5
63x1/2"	113	139	126	16	16	22	16.6
63x3/4"	113	140	126	17	16	22	16.9
63x1"	113	141	127	20	16	22	17.2
75x1/2"	129	154	139	16	16	14	15.2
75x3/4"	129	155	140	17	16	14	15.5
75x1"	129	156	141	20	16	14	15.8
90x1/2"	155	169	150	16	16	8	14.4
90x3/4"	155	170	151	17	16	8	14.7
90x1"	155	171	152	20	16	8	15.0
110x1/2"	185	207	184	16	16	4	13.2
110x3/4"	185	208	185	17	16	4	13.5
110x1"	185	209	186	20	16	4	13.8

Carton size(mm): 490x390x80

Female adaptor

COD. 2004



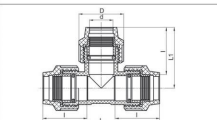
dxG	D	L	I	H	PN	Qty/cdn	Weight(ctn/kg)
20x1/2"	45	81	62	17	16	240	18.7
20x3/4"	45	83	63	19	16	240	19.1
20x1"	45	84	64	20	16	240	19.5
25x1/2"	55	89	67	17	16	144	17.8
25x3/4"	55	90	68	18	16	144	18.1
25x1"	55	92	70	20	16	144	18.5
32x1/2"	65	98	75	17	16	96	16.3
32x3/4"	65	99	76	18	16	96	16.6
32x1"	65	100	78	20	16	96	17.0
40x1/2"	79	110	89	16	16	60	17.4
40x3/4"	79	111	90	17	16	60	17.7
40x1"	79	112	91	20	16	60	18.2
50x1/2"	94	121	104	16	16	36	16.8
50x3/4"	94	122	105	17	16	36	17.1
50x1"	94	123	106	20	16	36	17.5
63x1/2"	113	139	126	16	16	22	16.6
63x3/4"	113	140	127	17	16	22	16.9
63x1"	113	141	128	20	16	22	17.2
75x1/2"	129	154	139	16	16	14	15.2
75x3/4"	129	155	140	17	16	14	15.5
75x1"	129	156	141	20	16	14	15.8
90x1/2"	155	169	150	16	16	8	14.4
90x3/4"	155	170	151	17	16	8	14.7
90x1"	155	171	152	20	16	8	15.0
110x1/2"	185	207	184	16	16	4	13.2
110x3/4"	185	208	185	17	16	4	13.5
110x1"	185	209	186	20	16	4	13.8

Carton size(mm): 490x390x80



90° Tee

COD. 2005

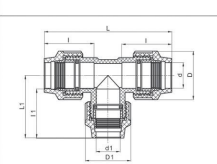


dxG	D	L	I	L1	PN	Qty/cdn	Weight(ctn/kg)
20x20x20	45	139	59	16	16	120	17.8
25x25x25	55	152	66	16	16	72	14.9
32x32x32	65	163	74	16	16	48	14.0
40x40x40	79	188	88	16	16	30	15.6
50x50x50	94	214	100	16	16	18	16.1
63x63x63	113	244	124	16	16	10	15.0
75x75x75	129	264	142	16	16	6	15.9
90x90x90	155	307	164	16	16	3	9.9
110x110x110	185	359	200	16	16	2	11.6

Carton size(mm): 490x390x80

90° Reducing tee

COD. 2006



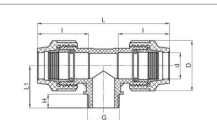
dxG1	D	D1	L	I	L1	PN	Qty/cdn	Weight(ctn/kg)
25x20x25	55	45	160	63	72	16	78	13.5
32x20x32	65	45	163	68	74	16	55	13.1
32x25x32	65	55	165	68	74	16	55	14.3
40x25x40	79	55	222	82	98	16	35	14.7
50x25x50	94	55	265	104	107	16	22	15.9
50x32x50	94	65	265	104	107	16	22	16.8
50x40x50	94	79	265	104	107	16	18	14.9
63x25x63	113	55	336	120	136	16	11	13.6
63x32x63	113	65	336	120	136	16	11	13.2
63x40x63	113	79	336	120	136	16	10	12.3
63x50x63	113	94	336	120	136	16	8	11.5
75x25x75	129	55	365	136	150	16	8	15.3
90x25x90	155	113	415	154	162	16	3	9.1
90x32x90	155	129	407	154	162	16	3	9.3
110x63x110	185	155	535	201	218	16	2	16.6

Carton size(mm): 490x390x80

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90° Tee with threaded male take off

COD. 2007

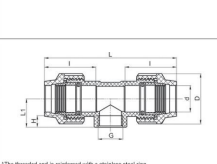


dxG	D	L	I	H	L1	PN	Qty/cdn	Weight(ctn/kg)
20x1/2x20	45	139	56	15	36	16	170	16.2
20x3/4x20	45	137	56	17	40	16	170	16.3
20x1x20	45	144	64	16	38	16	170	16.2
25x1/2x25	55	162	64	17	38	16	100	17.8
25x3/4x25	55	160	63	18	38	16	100	18.0
25x1x25	55	160	63	19	40	16	100	18.4
32x1/2x32	65	169	70	16	40	16	72	14.6
32x3/4x32	65	169	70	17	40	16	72	15.1
32x1x32	65	169	70	20	42	16	72	15.2
40x1/2x40	79	217	85	20	54	16	45	16.4
40x3/4x40	79	217	85	21	54	16	45	16.7
40x1x40	79	217	85	24	56	16	45	16.9
50x1/2x50	94	267	98	22	64	16	24	15.4
50x3/4x50	94	267	98	24	66	16	24	15.8
50x1x50	94	267	98	24	68	16	24	16.0
63x1/2x63	113	313	127	22	75	16	10	11.6
63x3/4x63	113	312	127	24	80	16	10	11.5
63x1x63	113	312	127	24	82	16	10	11.6
75x1/2x75	129	363	134	30	110	16	8	13.3
75x3/4x75	129	363	134	32	112	16	8	13.2
90x1/2x90	155	416	160	35	118	16	4	10.6
90x3/4x90	155	416	160	36	120	16	4	10.3
110x1x110	185	520	201	37	158	16	2	16.6

Carton size(mm): 490x390x80

90° Tee with threaded female take off

COD. 2008

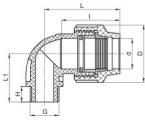


dxGd	D	L	I	H	L1	PN	Qty/cdn	Weight(ctn/kg)
20x1/2x20	45	138	55	17	35	16	180	17.8
20x3/4x20	45	135	55	17	34	16	180	17.8
20x1x20	45	140	63	17	35	16	180	18.1
25x1/2x25	55	160	63	18	38	16	180	18.9
25x1x25	55	165	86	20	39	16	170	17.4
30x1/2x30	65	180	70	20	40	16	72	13.2
30x1x30	65	186	79	20	42	16	72	13.2
32x1/2x32	65	186	79	20	42	16	60	13.3
32x1x32	65	190	86	20	44	16	60	13.3
40x1/4x40	75	216	83	20	45	16	44	16.4
40x1x40	75	218	83	22	46	16	44	17.4
45x1/4x45	75	224	83	22	46	16	44	17.4
50x1/5x50	94	244	82	22	55	16	28	17.7
50x1x50	94	244	82	22	55	16	28	17.7
55x1/5x55	94	244	82	22	55	16	28	18.0
50x2x50	94	254	98	25	58	16	26	17.6
55x2x55	94	254	98	25	58	16	26	17.6
60x1/6x60	115	313	120	22	62	12	12	13.5
60x1x60	115	313	120	25	62	12	12	13.5
63x63	115	313	120	25	62	12	12	13.5
75x75	125	355	134	25	77	8	8	12.3
75x125	125	355	134	25	77	8	8	13.0
90x90	145	415	140	25	82	8	8	13.3
90x125	145	415	140	25	82	8	8	13.3
90x2x90	155	416	160	32	100	8	4	10.4
100x100	155	416	160	32	100	8	4	10.4
100x150	155	416	160	32	100	8	4	10.4
110x110	155	525	201	32	110	6	2	8.7
110x150	155	525	201	32	110	6	2	8.7



90° Elbow with threaded male take off

COD. 2009

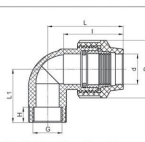


dxG	D	I	H	L	L1	PN	Qty/ctn	Weight(ctn/kg)
25x1/2"	45	50	15	63	40	16	390	21.3
25x3/4"	45	49	17	62	44	16	390	19.9
25x1/2"	55	62	15	78	43	16	330	17.5
25x3/4"	55	62	17	78	43	16	239	17.4
25x1"	55	66	20	79	50	16	239	19.2
32x1/2"	63	66	17	77	48	16	143	14.3
32x3/4"	63	66	17	88	47	16	143	15.5
32x1"	63	69	20	89	53	16	143	16.4
32x1 1/4"	63	66	20	89	56	16	139	17.9
40x1"	79	79	21	107	61	16	75	15.7
40x1 1/2"	79	79	24	107	63	16	75	16.9
40x1 1/2"	79	79	24	108	64	16	75	16.2
50x1 1/2"	94	102	27	131	82	16	40	15.5
50x1 1/2"	94	102	27	130	82	16	40	16.1
50x2"	94	102	27	130	82	16	40	16.1
63x1 1/2"	115	126	32	167	88	16	22	14.7
63x2"	115	126	38	167	100	16	22	15.1
63x2 1/2"	115	126	31	167	95	16	22	15.1
75x2 1/2"	129	135	32	179	104	16	9	9.2
75x3"	129	135	34	179	107	16	9	9.4
90x3"	155	160	35	209	124	16	6	9.8
90x4"	155	160	37	209	126	16	6	9.1
110x4"	185	204	35	251	141	16	3	8.7

Carton size(mm): 490x390x380

90° Elbow with threaded female take off

COD. 2010



dxG	D	I	H	L	L1	PN	Qty/ctn	Weight(ctn/kg)
25x1/2"	45	49	17	62	40	16	390	20.3
25x3/4"	45	49	18	62	43	16	390	21.2
25x1/2"	55	63	16	79	45	16	198	16.6
25x3/4"	55	63	19	79	45	16	198	17.7
25x1"	55	66	20	79	50	16	198	17.9
32x1/2"	63	69	17	88	48	16	139	14.8
32x3/4"	63	66	21	89	51	16	139	14.4
32x1"	63	69	20	89	53	16	139	15.3
32x1 1/4"	63	66	24	89	58	16	110	16.2
40x3/4"	79	79	18	108	61	16	70	15.3
40x1"	79	79	20	107	63	16	70	15.4
40x1 1/2"	79	79	25	107	62	16	60	15.3
40x1 1/2"	79	79	25	108	64	16	60	15.9
50x1 1/4"	94	102	24	130	89	16	40	15.8
50x1 1/2"	94	102	26	130	89	16	40	17.9
50x2"	94	102	25	132	87	16	40	17.8
63x1 1/2"	115	125	25	160	106	16	17	12.3
63x2"	115	126	30	167	113	16	17	14.4
63x2 1/2"	115	126	32	167	113	16	17	14.7
75x2"	129	135	26	179	119	16	9	10.0
75x2 1/2"	129	135	33	179	126	16	9	9.9
75x3"	129	135	35	179	124	16	9	10.2
90x2"	155	160	32	219	138	16	6	11.0
90x3"	155	160	41	219	140	16	6	11.4
110x3"	185	204	40	251	150	16	3	8.6
110x4"	185	204	41	251	154	16	3	8.7

Carton size(mm): 490x390x380

*The threaded end is reinforced with a stainless steel ring

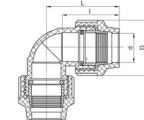
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Compression fittings and clamp saddles pp

90° Elbow

COD. 2011

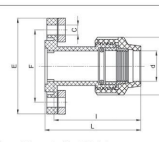


dxG	D	L	I	PN	Qty/ctn	Weight(ctn/kg)
25x20	45	50	63	16	340	19.7
25x25	55	62	79	16	144	18.8
32x32	63	71	88	16	96	18.3
40x40	79	83	106	16	53	17.2
50x50	94	100	123	16	27	16.3
63x63	115	123	151	16	14	14.3
75x75	129	136	177	16	9	12.1
90x90	155	166	204	16	6	13.1
110x110	185	201	258	16	3	11.7

Carton size(mm): 490x390x380

Flanged adaptor

COD. 2012



dxG	DN	D	L	I	E	F	C	a	PN	Qty/ctn	Weight(ctn/kg)
40x1 1/2"	40	79	141	128	152	110	18	4	16	26	27.4
50x1 1/2"	40	94	162	148	152	110	18	4	16	25	28.9
50x2"	50	94	162	148	152	112	18	4	16	22	28.4
63x2"	50	115	193	170	165	125	18	4	16	13	18.6
63x2 1/2"	65	115	193	170	164	144	18	4	16	13	21.5
75x2 1/2"	65	129	201	186	184	144	18	4	16	7	12.9
75x3"	80	129	201	186	186	160	18	8	16	7	15.1
90x3"	80	155	220	200	186	160	18	8	16	6	15.1
90x4"	100	155	220	200	216	181	18	8	16	6	16.8
110x4"	100	155	233	220	216	181	18	8	16	4	14.2

Carton size(mm): 490x390x380

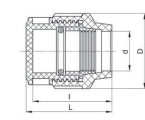
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End plug

COD. 2013

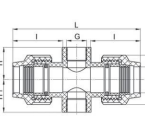


d	D	L	I	PN	Qty/ctn	Weight(ctn/kg)
20	45	70	65	16	400	21.0
25	55	77	72	16	240	18.1
32	63	85	79	16	168	18.1
40	79	88	82	16	110	18.3
50	94	111	100	16	64	18.8
63	115	130	123	16	33	18.6
75	129	150	137	16	30	18.2
90	155	179	158	16	16	17.2
110	185	205	202	16	8	15.1

Carton size(mm): 490x390x380

Female tee with peg fitting

COD. 2014



dxG	D	L	I	H	H1	PN	Qty/ctn	Weight(ctn/kg)
32x1/2"	63	108	66	36	41	16	60	9.5

Carton size(mm): 490x390x380

*The threaded end is reinforced with a stainless steel ring

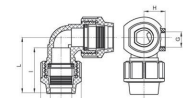
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Compression fittings and clamp saddles pp

90° Elbow with lateral threaded female take off

COD. 2015



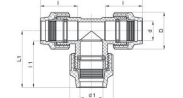
dxG	D	L	I	I1	PN	Qty/ctn	Weight/ctn(kg)
25x25x1/2"	55	79	63	30	16	120	16.0
32x32x1/2"	63	88	71	35	16	70	14.0
32x32x3/4"	63	88	71	36	16	70	14.2

Carton size(mm): 490x390x380

Carton size(mm): 490x390x380

90° Tee with increased take off

COD. 2016

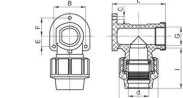


dx1xd	D	D1	L	I	L1	I1	PN	Qty/ctn	Weight/ctn(kg)
20x25x30	45	55	139	56	79	65	16	110	16.1
25x32x25	55	63	160	63	86	69	16	70	15.4
32x40x32	63	79	183	68	99	81	16	40	14.4
40x50x40	79	94	214	79	120	94	16	23	14.1

Carton size(mm): 490x390x380

Wall plate elbow fitting

COD. 2017



dxG	D	L	I	C	B	E	F	PN	Qty/ctn	Weight(ctn/kg)
25x1/2"	45	62	49	3.8	36	12	22	16	280	15.4
25x3/4"	55	73	59	4	44	15	27	16	132	15.3

Carton size(mm): 490x390x380

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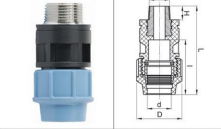


Transition compression fittings

The Donsen transition compression fitting quickly and safely connects polyethylene pipes to metal pipes thanks to a special threaded in the body. The range includes the male and female fitting with a 20x1/2 to 63x2 diameter and the 90° male elbow with a 20x1/2 to 25x3/4 diameter.

Male adaptor with brass threaded insert

COD. 2018

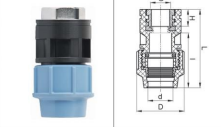


dxG	D	L	I	H	PN	Qty/cdn	Weight(cdn/kg)
25x1/2"	45	96	58	14	15	125	10.6
25x3/4"	55	105	64	15	16	30	7.8
32x1"	63	123	66	18	16	30	7.8
40x1 1/4"	79	151	81	23	16	20	7.8
50x1 1/2"	94	177	92	27	16	40	10.6
63x2"	113	192	102	32	16	20	14.3

Carton size(mm): 380x310x180(25, 32, 40), 490x390x380(50, 63)

Female adaptor with brass threaded insert

COD. 2019

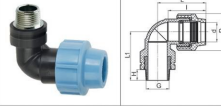


dxG	D	L	I	H	PN	Qty/cdn	Weight(cdn/kg)
25x1/2"	45	96	58	14	15	125	10.3
25x3/4"	55	105	64	15	16	30	6.6
32x1"	63	123	66	18	16	30	6.6
40x1 1/4"	79	151	82	20	16	20	7.2
50x1 1/2"	94	177	92	23	16	40	10.3
63x2"	113	192	101	24	16	20	14.2

Carton size(mm): 380x310x180(25, 32, 40), 490x390x380(50, 63)

90° Elbow male with brass threaded insert

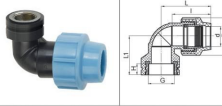
COD. 2020



dxG	D	L	I	L1	H	PN	Qty/cdn	Weight(cdn/kg)
25x1/2"	45	68	34	14.3	16	380x310x180	60	6.0
25x3/4"	55	84	56	16	16	380x310x180	60	6.9
32x1"	63	100	68	18	16	380x310x180	45	6.7
32x1"	63	100	68	18	16	380x310x180	30	6.3
40x1 1/4"	79	109	82	21	16	380x310x180	14	6.1
50x1 1/2"	94	130	101	24	16	490x390x380	30	15.7
63x2"	113	167	118	27	16	490x390x380	18	16.0

90° Elbow female with brass threaded insert

COD. 2021



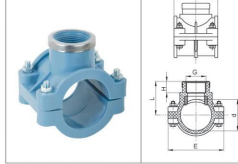
dxG	D	L	I	L1	H	PN	Qty/cdn	Weight(cdn/kg)
25x1/2"	45	68	34	14	16	380x310x180	60	5.8
25x3/4"	55	84	51	15	16	380x310x180	60	7.2
32x1"	63	100	68	18	16	380x310x180	45	6.6
32x1"	63	100	68	18	16	380x310x180	30	7.1
40x1 1/4"	79	109	82	21	16	380x310x180	14	5.6
50x1 1/2"	94	130	101	24	16	490x390x380	36	15.1
63x2"	113	167	106	26	16	490x390x380	18	14.2

Carton size(mm): 490x390x380

Compression fittings and clamp saddles pp

Clamp saddle with reinforcing ring

COD. 2022

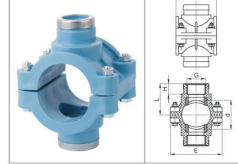


dxG	L	H	E	F	n	PN	Qty/cdn	Weight(cdn/kg)
25x1/2"	45	16	80	54	4	16	180	32.2
25x3/4"	37	16	80	54	4	16	254	35.0
32x1"	43	22	80	54	4	16	294	36.4
32x1"	52	16	80	64	4	16	100	28.6
32x3/4"	48	19	80	64	4	16	140	27.8
40x1 1/2"	51	16	87	74	4	16	120	24.3
40x3/4"	53	19	87	74	4	16	138	28.2
40x1"	60	20	87	74	4	16	96	21.8
50x1 1/2"	63	14	102	78	4	16	88	20.5
50x3/4"	63	16	102	78	4	16	88	20.6
50x1"	63	20	102	78	4	16	88	20.0
63x1 1/2"	72	22	116	87	4	16	64	21.6
63x3/4"	71	23	116	87	4	16	64	21.9
63x1"	70	24	116	87	4	16	64	22.2
63x1 1/4"	70	24	116	87	4	16	64	22.7
63x1 1/2"	69	23	116	87	4	16	64	23.2
75x1 1/2"	70	17	130	88	4	16	45	18.2
75x3/4"	72	18	130	88	4	16	45	18.5
75x1"	73	20	130	88	4	16	45	19.2
75x1 1/4"	77	24	130	88	4	16	45	19.4
75x1 1/2"	77	24	130	88	4	16	45	19.4
75x2"	79	26	130	88	4	16	45	20.6
90x1 1/2"	81	20	140	88	4	16	36	16.9
90x1 1/4"	80	24	140	88	4	16	36	17.3
90x1 1/2"	85	24	140	88	4	16	36	17.5
90x2"	87	26	140	88	4	16	36	18.1
110x1 1/2"	92	17	170	108	4	16	24	15.0
110x3/4"	93	18	170	108	4	16	24	15.2
110x1"	94	19	170	108	4	16	24	15.3
110x1 1/4"	99	24	170	108	4	16	24	15.7
110x1 1/2"	99	24	170	108	4	16	24	15.4
110x2"	101	26	170	108	4	16	24	16.2

Carton size(mm): 490x390x380

Double clamp saddle with reinforcing ring

COD. 2023



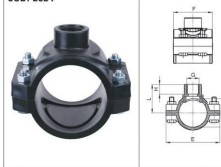
dxG	L	H	E	F	n	PN	Qty/cdn	Weight(cdn/kg)
25x1/2"	45	16	80	54	4	16	-	-
25x3/4"	37	16	80	54	4	16	-	-
32x1"	43	22	80	54	4	16	-	-
32x1"	52	16	80	64	4	16	-	-
32x3/4"	48	19	80	64	4	16	-	-
40x1 1/2"	51	16	87	74	4	16	-	-
40x3/4"	53	19	87	74	4	16	-	-
40x1"	60	20	87	74	4	16	-	-
50x1 1/2"	63	14	102	78	4	16	-	-
50x3/4"	63	16	102	78	4	16	-	-
50x1"	63	20	102	78	4	16	-	-
63x1 1/2"	72	22	116	87	4	16	-	-
63x3/4"	71	23	116	87	4	16	-	-
63x1"	70	24	116	87	4	16	-	-
63x1 1/4"	70	24	116	87	4	16	-	-
63x1 1/2"	69	23	116	87	4	16	-	-
75x1 1/2"	70	17	130	88	4	16	-	-
75x3/4"	72	18	130	88	4	16	-	-
75x1"	73	20	130	88	4	16	-	-
75x1 1/4"	77	24	130	88	4	16	-	-
75x1 1/2"	77	24	130	88	4	16	-	-
75x2"	79	26	130	88	4	16	-	-
90x1 1/2"	81	20	140	88	4	16	-	-
90x1 1/4"	80	24	140	88	4	16	-	-
90x1 1/2"	85	24	140	88	4	16	-	-
90x2"	87	26	140	88	4	16	-	-
110x1 1/2"	92	17	170	108	4	16	-	-
110x3/4"	93	18	170	108	4	16	-	-
110x1"	94	19	170	108	4	16	-	-
110x1 1/4"	99	24	170	108	4	16	-	-
110x1 1/2"	99	24	170	108	4	16	-	-
110x2"	101	26	170	108	4	16	-	-

Carton size(mm): 490x390x380



Clamp saddle

COD. 2024



dxG	L	H	E	F	n	PN	Qty/cdn	Weight(cdn/kg)
25x1/2"	35	17	75	52	2	10	280	23.0
25x3/4"	36	18	75	52	2	10	250	24.2
32x1"	41	17	82	55	2	10	240	24.5
32x3/4"	41	19	82	55	2	10	240	25.6
32x1"	44	20	82	55	2	10	240	26.5
40x1 1/2"	47	17	82	59	2	10	200	28.4
40x3/4"	45	18	82	59	2	10	200	28.3
40x1"	46	20	82	59	2	10	200	29.2
50x1 1/2"	49	17	94	68	4	10	140	31.6
50x3/4"	49	18	94	68	4	10	140	32.3
50x1"	51	20	94	68	4	10	140	33.0
50x1 1/4"	56	24	94	68	4	10	140	31.7
63x1 1/2"	56	17	104	79	4	10	100	28.2
63x3/4"	57	18	104	79	4	10	100	29.7
63x1"	59	20	104	79	4	10	100	34.3
63x1 1/4"	63	24	104	79	4	10	80	29.0
63x1 1/2"	65	24	104	79	4	10	80	29.0
75x1 1/2"	62	18	121	86	4	10	80	26.0
75x3/4"	63	19	121	86	4	10	80	28.4
75x1"	65	20	121	86	4	10	80	28.4
75x1 1/4"	68	23	121	86	4	10	80	25.5
75x1 1/2"	71	23	121	86	4	10	64	21.3
75x2"	72	26	121	86	4	10	64	22.5
90x1 1/2"	69	19	135	86	4	10	64	21.6
90x3/4"	70	19	135	86	4	10	64	21.9
90x1"	72	20	135	86	4	10	60	20.9
90x1 1/4"	75	23	135	86	4	10	60	21.4
90x1 1/2"	77	24	135	86	4	10	60	22.2
90x2"	79	26	135	86	4	10	60	23.5
110x1 1/2"	79	18	167	95	4	10	44	20.6
110x3/4"	81	19	167	95	4	10	44	20.9
110x1"	83	21	167	95	4	10	44	21.0
110x1 1/4"	86	23	167	95	4	10	35	17.3
110x1 1/2"	87	24	167	95	4	10	35	17.6
110x2"	89	26	167	95	4	10	35	18.2
125x1 1/2"	106	23	192	107	6	10	24	18.1
125x3/4"	106	23	192	107	6	10	24	18.4
125x1"	106	24	192	107	6	10	24	18.5
125x1 1/4"	106	24	192	107	6	10	24	18.6
125x1 1/2"	106	25	192	107	6	10	24	18.8
125x2"	106	26	192	107	6	10	24	18.9
125x2"	117	30	191	104	6	10	18	



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Compression fittings and clamp saddles pp

Single union ball valve PN16 (Straight insert)	Coupling
FGD. 2034  <p>SIZE 20x1/2 25x3/4 32x1 40x1 1/2 50x1 1/2 63x3/4</p>	FGD. 2001  <p>SIZE 20x20 25x25 32x32 40x40 50x50 63x63 75x75 90x90 110x110</p>
Single union ball valve PN16 (Female thread and ST)	Reducing coupling
FG D. 2035  <p>SIZE 20x1/2 25x3/4 32x1 40x1 1/2 50x1 1/2 63x3/4</p>	FGD. 2002  <p>SIZE 20x20 25x25 32x32 40x40 50x50 63x63 75x75 90x90 110x110</p>
Single union ball valve PN16 (male thread and ST)	Male adaptor
FGD. 2036  <p>SIZE 20x1/2 25x3/4 32x1 40x1 1/2 50x1 1/2 63x3/4</p>	FGD. 2003  <p>SIZE 20x1/2 25x3/4 32x1 40x1 1/2 50x1 1/2 63x3/4 75x1/2 90x1/2 110x1/2 110x3/4</p>

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