



Pipe couplings and fittings

Reducing Couplings



Approvals



Nominal size		Pipe OD	Part no.			Approvals				Weight approx.
DN	Inch	mm (Inch)	Red paint	White powder	Galvanized	VdS	LPCB	FM	UL	kg (lbs)
50 x 40	2 x 1-1/2	60.3 x 48.3 (2.38 x 1.90)	920140	-	920242	-	B	D	D	0.81 (1.79)
65 x 50	2-1/2 x 2	73.0 x 60.3 (2.88 x 2.38)	920145	-	920243	-	C	D	D	0.97 (2.14)
	3 OD x 2	76.1 x 60.3 (3.00 x 2.38)	920148	920264	920245	C	C	D	D	0.96 (2.12)
80 x 50	3 x 2	88.9 x 60.3 (3.50 x 2.38)	920150	920265	920247	C	C	D	D	1.60 (3.53)
80 x 65	3 x 2-1/2	88.9 x 73.0 (3.50 x 2.88)	920153	-	920250	-	C	D	D	1.50 (3.31)
	3 x 3 OD	88.9 x 76.1 (3.50 x 3.00)	920156	920266	920251	C	C	D	D	1.51 (3.33)
100 x 50	4 x 2	114.3 x 60.3 (4.50 x 2.38)	920159	920267	920253	C	C	D	D	2.25 (4.96)
100 x 65	4 x 2-1/2	114.3 x 73.0 (4.50 x 2.88)	920161	-	920255	-	C	D	D	2.15 (4.74)
	4 x 3 OD	114.3 x 76.1 (4.50 x 3.00)	920163	920268	920257	C	C	D	D	2.13 (4.70)
100 x 80	4 x 3	114.3 x 88.9 (4.50 x 3.50)	920166	920269	920258	C	C	D	D	2.13 (4.70)
150 x 80	6 x 3	168.3 x 88.9 (6.63 x 3.50)	920168	-	920260	-	-	D	D	4.30 (9.48)
150 x 100	6-1/2 OD x 4	165.1 x 114.3 (6.50 x 4.50)	920167	920270	920259	-	C	D	D	3.76 (8.29)
	6 x 4	168.3 x 114.3 (6.63 x 4.50)	920171	-	920261	C	C	D	D	4.74 (10.5)
200 x 150	8 x 6-1/2 OD	219.1 x 165.1 (8.63 x 6.50)	920176	-	920262	-	C	D	D	6.25 (13.8)
	8 x 6	219.1 x 168.3 (8.63 x 6.63)	920177	-	920263	-	C	D	D	6.21 (13.7)

OD = Outside Diameter

Working pressure: **A** = max. 12.1 bar (175 psi) / **B** = max. 15 bar (218 psi) / **C** = max. 16 bar (232 psi) / **D** = max. 20.7 bar (300 psi) /

E = max. 25 bar (363 psi) / **F** = max. 34.5 bar (500 psi) / - = no approvals

Technical data

Type 1N

Coupling flexible, reducing

Ambient temperature -34 °C to 110 °C (-30 °F to 230 °F)

Tightening torque:

- DN50 - DN65 40 - 60 Nm (30 - 45 lb-ft)

- DN80 - DN100 110 - 135 Nm (80 - 100 lb-ft)

- DN150 - DN150 135 - 175 Nm (100 - 130 lb-ft)

- DN200 175 - 245 Nm (130 - 180 lb-ft)

Material / surface

Coupling ductile cast iron

- Red paint liquid painting similar RAL 3000

- White powder powder coating similar RAL 9010

- Galvanized hot dip galvanized

Gasket EPDM

Bolts and nuts heat-treated carbon steel,

..... zinc electroplated with yellow chromate

Application

Water based fire-suppression systems



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Note

EPDM gaskets must never be brought into contact with lubricants or oils containing mineral oils, as well as other materials containing mineral oils (e.g. fuels or cleaning agents). Flexible couplings are basically not intended to receive torsion forces. Every arm pipe leading a torsional moment into the coupling must be supported.

Lubricant for assembly

Use suitable lubricants for the EPDM sealing only.

No installation of caps into reducing couplings

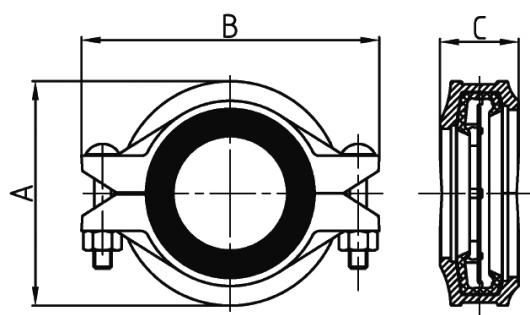
Do not install casted end caps when using reducing couplings. A minimum of vacuum (e.g. when draining the pipework or using a vacuum-pump) already bears the risk that those caps were sucked into the pipe which may cause severe water damage.

Maintenance

Visual check

Dimensional drawing

Dimensions in mm (inch)



DN	Inch	A (mm / inch)	B (mm / inch)	C (mm / inch)	Bolts Nuts	SW
50 x 40	2 x 1-1/2	86 (3.39)	125 (4.93)	44 (1.74)	M10x57	16
65 x 50	2-1/2 x 2	100 (3.94)	138 (5.43)	45 (1.78)	M10x57	16
	3 OD x 2	102 (4.02)	144 (5.67)	45 (1.78)	M10x57	16
80 x 50	3 x 2	115 (4.53)	168 (6.61)	46 (1.81)	M12x70	22
80 x 65	3 x 2-1/2	115 (4.53)	168 (6.61)	46 (1.81)	M12x70	22
	3 x 3 OD	115 (4.53)	172 (6.77)	46 (1.81)	M12x70	22
100 x 50	4 x 2	144 (5.67)	198 (7.80)	50 (1.97)	M12x70	22
100 x 65	4 x 2-1/2	144 (5.67)	198 (7.80)	50 (1.97)	M12x70	22
	4 x 3 OD	144 (5.67)	202 (7.95)	50 (1.97)	M12x70	22
100 x 80	4 x 3	148 (5.83)	198 (7.80)	50 (1.97)	M12x70	22
150 x 80	6 x 3	200 (7.87)	268 (10.55)	51 (2.01)	M16x85	24
150 x 100	6-1/2 OD x 4	197 (7.75)	260 (10.24)	51 (2.01)	M16x85	24
	6 x 4	202.5 (7.97)	268 (10.55)	52.5 (2.07)	M16x85	24
200 x 150	8 x 6-1/2 OD	257 (10.12)	335 (13.19)	60 (2.36)	M20x115	30
	8 x 6	260 (10.24)	338 (13.31)	60 (2.36)	M20x115	30