

DI UNIVERSAL JOINT PN16

Wide Tolerance Universal Coupling · Ductile Iron End Rings · Epoxy Coated

BRAND: SW FLOW CONTROLS

SKU: SW-0090

SIZE DN50 TO DN600

PN16 / 16 BAR



FIG. 1 | DI UNIVERSAL JOINT PN16, BOLTED END RING COUPLING

PRODUCT OVERVIEW

The SWBM DI Universal Joint PN16 is a mechanical coupling that joins two plain-end pipes of the same or different materials. It allows quick installation and removal of pipe sections, valves and fittings without welding, threading or flanging.

Two ductile iron end rings are drawn together by through bolts, compressing EPDM gaskets onto each pipe end. The wide tolerance design joins ductile iron, steel, PVC and PE pipe, and accommodates minor misalignment to reduce stress at the connection.

Product type **Universal coupling, wide tolerance**

Connection **Plain end x plain end**

End ring material **Ductile iron EN-GJS-400-15**

Coating **Epoxy**

Pressure rating **PN16 (16 bar)**

Size range **2" to 24" (DN50 to DN600)**

TECHNICAL SPECIFICATION

Pressure rating	PN16	Pipe types	DI, steel, PVC, PE
Gasket	EPDM to EN 681-1	Coupling length L	102 to 150 mm
End ring	EN-GJS-400-15 to EN 1563	Bolt size	M12, 2 to 10 per coupling
Sleeve	Steel to EN 10025	Medium	Potable water, sewage
Bolts and nuts	Grade 4.8, galvanized	Joint type	Bolted mechanical joint
Coating	Epoxy	Size range	DN50 to DN600



BILL OF MATERIALS

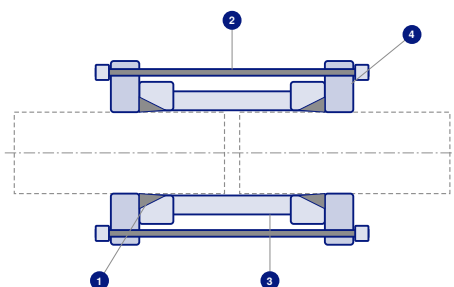


FIG. 2 | SECTIONAL ARRANGEMENT, SCHEMATIC

#	COMPONENT	MATERIAL
1	Gasket (2 nos.)	EPDM, EN 681-1
2	Bolt and nut	Steel grade 4.8, galvanized
3	Sleeve	Steel, EN 10025
4	End ring (2 nos.)	Ductile iron EN-GJS-400-15, EN 1563

Materials and standards as per the manufacturer drawing. Coated components are epoxy finished for corrosion resistance.

DIMENSIONS AND WEIGHTS

DN	PIPE OD RANGE	L	D	BOLT SIZE	BOLT QTY
50	59 to 72	102	165	M12 x 180	2
65	72 to 85	102	185	M12 x 180	2
80	88 to 103	102	185	M12 x 180	4
100	109 to 128	102	218	M12 x 180	4
125	132 to 146	102	250	M12 x 180	4
150	159 to 182	102	272	M12 x 200	4
175	192 to 210	130	312	M12 x 200	4
200	218 to 235	130	335	M12 x 220	4
250	272 to 289	130	405	M12 x 220	6
300	315 to 332	130	460	M12 x 220	6
300	322 to 339	130	435	M12 x 220	6
350	340 to 360	150	455	M12 x 250	6
350	357 to 368	150	518	M12 x 250	8
350	374 to 391	150	568	M12 x 250	8
400	400 to 429	150	580	M12 x 250	8
450	418 to 435	150	580	M12 x 250	8
400	425 to 442	150	625	M12 x 260	8
450	455 to 472	150	665	M12 x 260	10
500	500 to 532	150	690	M12 x 260	10
500	527 to 544	150	715	M12 x 260	10
500	555 to 572	150	715	M12 x 260	10
600	600 to 630	150	790	M12 x 260	10

All dimensions in mm. L = coupling length, D = coupling outside diameter. Where a DN appears more than once, each row covers a different pipe OD band; select by measured pipe OD. Weights against enquiry. Dimensions are nominal and given for guidance only. Certified drawings are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0090
Size	DN50 to DN600, state actual pipe OD
Pressure rating	PN16
Gasket	EPDM
Order example	SW-0090 / DN100 / PIPE OD 114.3 / PN16

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.



PRESSURE AND TEMPERATURE

Working pressure	PN16 (16 bar)
Gasket	EPDM to EN 681-1
Medium	Potable water, sewage
Pipe types	DI, steel, PVC, PE

The temperature limit is governed by the EPDM gasket. On PE and PVC pipe the system rating is also limited by the pipe pressure class. Confirm duty with SWBM for other media.

TYPICAL APPLICATIONS

- Potable water distribution
- Sewage systems
- Repair and connection of mixed material mains
- Valve and fitting installation in existing lines
- General industrial piping

COMPLIANCE AND QUALITY

- EPDM gasket to EN 681-1
- Ductile iron end rings EN-GJS-400-15 to EN 1563
- Steel sleeve to EN 10025
- Grade 4.8 galvanized bolts and nuts
- Epoxy coated for corrosion resistance
- Joins pipes of the same or different materials
- Accommodates minor angular misalignment

INSTALLATION AND OPERATION

- Cut both pipe ends square, deburr and clean over the gasket length
- Confirm both pipe ODs fall within the coupling range
- Fit a stiffener insert in PE pipe before assembly
- Slide end rings and gaskets onto the pipes, then centre the sleeve over the joint
- Leave a small gap between the pipe ends
- Tighten the bolts evenly and alternately until the gaskets are compressed

COMPANY

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