

DI FLANGE ADAPTER PN16

Wide Tolerance Flange Adapter · Ductile Iron GGG50 · Epoxy Coated

BRAND: SW FLOW CONTROLS

SKU: SW-0089

SIZE DN50 TO DN600

PN16 / 16 BAR



FIG. 1 | DI FLANGE ADAPTER PN16, BOLTED END RING TYPE

PRODUCT OVERVIEW

The SWBM DI Flange Adapter PN16 connects plain-end HDPE, PVC, steel or ductile iron pipe to flanged valves, pumps and fittings without welding or fusion equipment. The bolted design gives a watertight joint that can be dismantled for maintenance.

The body and end ring are ductile iron with an epoxy coating. Tightening the studs draws the end ring onto a wedge gasket that seals on the pipe outside diameter. Each size accepts a band of pipe ODs, so one adapter suits several pipe materials of similar OD.

Product type	Flange adapter, wide tolerance
Connection	PN16 flange x plain-end pipe
Body material	Ductile iron GGG50
Coating	Epoxy, minimum 250 microns
Pressure rating	PN16 (16 bar)
Size range	2" to 24" (DN50 to DN600)

TECHNICAL SPECIFICATION

Working pressure	PN10 / PN16	Body and end ring	Ductile iron GGG40 / GGG50
Working temperature	-20°C to +70°C	Gasket	EPDM or NBR
Medium	Water, wastewater	Studs and nuts	Steel, zinc plated or Dacromet
Pipe types	HDPE, PVC, steel, ductile iron	Coating	Epoxy, min. 250 microns
Joint type	Bolted mechanical joint	Flange end	PN16 flanged
Studs per adapter	2 to 10, M12	Size range	DN50 to DN600



PRODUCT DATA SHEET

DI FLANGE ADAPTER PN16

Ref. SW-0089 | Rev. 01

BILL OF MATERIALS

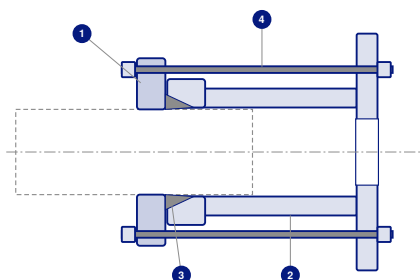


FIG. 2 | SECTIONAL ARRANGEMENT, SCHEMATIC

#	COMPONENT	MATERIAL
1	End ring	Ductile iron GGG40 / GGG50
2	Body	Ductile iron GGG40 / GGG50
3	Gasket	EPDM / NBR
4	Stud and nut	Steel, zinc plated / Dacromet

Materials as per the manufacturer data sheet. Body and end ring are epoxy coated to a minimum thickness of 250 microns. NBR gasket recommended where hydrocarbons may be present.

DIMENSIONS AND WEIGHTS

SIZE	PIPE OD	STUDS	A	H	D	WT KG
DN50	59-72	2 x M12x125	165	78	195	3.50
DN65	72-85	2 x M12x125	185	78	190	3.90
DN80	88-103	4 x M12x125	185	78	216	4.50
DN100	109-128	4 x M12x125	218	78	225	6.00
DN125	132-146	4 x M12x125	250	78	288	7.00
DN150	159-182	4 x M12x125	272	78	288	7.80
DN175	192-210	4 x M12x125	312	78	345	11.60
DN200	218-235	4 x M12x130	335	78	345	12.00
DN250	272-289	6 x M12x130	405	85	455	14.50
DN300	315-332	6 x M12x130	460	85	455	18.50
DN350	374-391	8 x M12x130	510	108	520	41.50
DN400A	400-429	8 x M12x150	489	108	580	49.50
DN400B	418-435	8 x M12x160	580	108	580	51.20

SIZE	PIPE OD	STUDS	A	H	D	WT KG
DN400C	425-442	8 x M12x160	580	108	580	52.80
DN450A	455-472	10 x M12x160	620	108	640	57.20
DN450B	476-493	10 x M12x160	640	108	640	61.60
DN500A	500-532	10 x M12x160	683	114	715	67.10
DN500B	527-544	10 x M12x180	690	114	715	68.20
DN500C	555-572	10 x M12x180	715	114	715	69.50
DN500D	566-583	10 x M12x180	715	150	715	70.50
DN500E	582-599	10 x M12x200	715	150	715	71.50
DN600A	600-630	10 x M12x200	790	114	840	82.50
DN600B	630-647	10 x M12x180	820	114	840	84.70
DN600C	645-662	10 x M12x180	830	114	840	85.80
DN600D	662-679	10 x M12x200	840	150	840	86.90
DN600E	675-692	10 x M12x200	840	150	840	90.20

All dimensions in mm. A, H and D as shown on the manufacturer drawing. Pipe OD = clamping range. Studs = quantity x size. Suffix A to E = different pipe OD bands at the same DN; select by measured pipe OD. Dimensions and weights are nominal and given for guidance only. Certified drawings are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0089
Size	DN50 to DN600, state actual pipe OD
Flange drilling	PN16 standard, PN10 on request
Gasket	EPDM standard, NBR on request
Order example	SW-0089 / DN150 / PIPE OD 168.3 / PN16 / EPDM

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)
Working pressure	PN10 (10 bar)
Working temperature	-20°C to +70°C
Medium	Water, wastewater

Ratings as stated by the manufacturer. 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 and wastewater lines
- Pump and valve connections in chambers
- HDPE and PVC pipe to flanged equipment
- Chemical and general industrial piping

COMPLIANCE AND QUALITY

- Ductile iron GGG40 / GGG50 body and end ring
- Epoxy coating, minimum 250 microns
- EPDM or NBR wedge gasket
- Zinc plated or Dacromet steel studs and nuts
- PN16 flange, PN10 on request
- Wide tolerance gasket covers a band of pipe ODs per size
- No welding or fusion equipment required

INSTALLATION AND OPERATION

- Cut the pipe square, deburr and clean the spigot over the gasket length
- Measure the pipe OD and confirm it falls within the adapter range
- Fit a stiffener insert in PE pipe before assembly
- Slide the end ring and gasket onto the pipe, then insert the pipe into the body
- Bolt the flange to the mating flange first
- Tighten the studs evenly in a diagonal sequence until the gasket is compressed

COMPANY

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