

### 3 THE PRODUCT

DAMOS PE100 injection moulded spigot fittings and sweep bends are suitable for use with polyethylene (PE) pipes manufactured in accordance with AS/NZS 4130 - *Polyethylene (PE) pipes for pressure applications*, for conveyance of drinking water, recycled water and sewage in above ground and below ground applications.

The fittings are available in sizes from DN 20 to DN 1200 and includes stub flanges, full face flanges, concentric and eccentric reducers, caps, sweep bends and valve spacers. The stub flanges and reducers are available with long or short spigots.

The fittings are manufactured from black PE100 resin and available in pressure classes from PN6.3 to PN35, depending on the product type.

See Table 1 for details of the product range.

**TABLE 1**

**DAMOS PRODUCT RANGE - SPIGOT FITTINGS**

Product	DN	Pressure Class
Stub Flanges Short Spigot and Long Spigot	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000	6.3, 10, 16, 20 , 25
Full Face Flanges Short Spigot	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200	6.3, 10, 16, 20
Reducer, Concentric and Eccentric Short Spigot and Long Spigot	50-32, 50x40, 63x32, 63x40, 63x50, 75-32, 75-40, 75x50, 75x63, 90-40, 90x50, 90x63, 90x75, 110x50, 110x63, 110x75, 110x90, 125-50, 125x63, 125x75, 125x90, 125x110, 140-50, 140-63,140-75, 140x90, 140x110, 140x125, 160-50, 160x63, 160-75, 160x90, 160x110, 160x125, 160x140, 180x90, 180x110, 180x125, 180x140, 180x160, 200-75, 200-90, 200x110, 200-125, 200x140, 200x160, 200x180, 225-90, 225-110, 225-125, 225-140, 225x160, 225x180,225x200, 250-90, 250-110, 250-125, 250-140, 250x160, 250x180, 250x200, 250x225, 280-90, 280-110, 280-125, 280-140, 280-160, 280-180, 280x200, 280x225, 280x250, 315-90, 315-110, 315-125, 315-140, 315-160, 315-180, 315x200, 315x225, 315x250, 315x280, 355-90, 355-110, 355-125, 355-140, 355-160, 355-180, 355-200, 355-225, 355x250, 355x280, 355x315, 400-160, 400-180, 400-200, 400-225, 400x250, 400x280, 400x315, 400x355, 450-160, 450-180, 450-200, 450-225, 450-250, 450-280, 450-315, 450x400 500-200, 500-225, 500-250, 500-280, 500-315, 500-355, 500-400, 500-450 560-250, 560-280, 560-315, 560-355, 560-400, 560-450, 560-500	16, 10

Product	DN	Pressure Class
	630-250, 630-280, 630-315, 630-355, 630-400, 630-450, 630-500, 630-560, 710-355, 710-400, 710-450, 710-500, 710-560, 710-630, 800-400, 800-450, 800-500, 800-560, 800-630, 800-710, 1000-500, 1000-560, 1000-630, 1000-710, 1000-800, 1200-1000, 1200-630, 1200-710, 1200-800, 1200-900.	
Caps	20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000	16, 10
Valve Spacers	110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710.	6.3, 8, 10, 12.5, 16
Sweep Bends 30° 45° 60° 90°	20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000	6.3, 8, 10, 12.5, 16, 20, 25

#### 4 SCOPE OF THE APPRAISAL

This product appraisal applies to PE100 DAMOS injection moulded spigot fittings in sizes DN 20 to DN 1200 with classifications of PN10 and PN16 as detailed in Section 3 and included in the product schedule of the ISO Type 5 StandardsMark product certificate in Appendix B.

#### 5 APPRAISAL CRITERIA

##### 5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts polyethylene spigot fittings for pressure applications manufactured in compliance with AS/NZS 4129:2008 *Fittings for polyethylene (PE) pipes for pressure applications* and duly certified by means of an ISO Type 5 product certification scheme undertaken by a JAS-ANZ accredited Certification Assessment Body (CAB) or by an international accreditation system recognised by JAS-ANZ.

The manufacturer is generally expected to have a production management and control system that has been duly accredited in accordance with AS/NZS ISO 9001 as a prerequisite to undergoing a product certification audit.

The ISO Type 5 Product Certification Scheme shall meet the criteria described in WSA TN-08.

##### 5.2 Performance Requirements

DAMOS PE spigot fittings and sweep bends have been appraised for compliance with AS/NZS 4129:2008 *Fittings for polyethylene (PE) pipes for pressure applications*.

Appraisal criteria are also determined by the WSAA Product Appraisal Technical Advisory Group and is regularly reviewed to ensure that the criteria reflect the requirements of WSAA members.

The following Product Specification is relevant to this application:

WSA PS-208 *Polyethylene (PE) Moulded Pressure Fittings for Pressure Applications - Water Supply and Sewerage*.

Copies of the above Product Specification can be found in Appendix C or downloaded from the WSAA website.