

AVK Australia

VALVE & COUPLING SOLUTIONS FOR PE PIPING SYSTEMS

If PE is your pipe of choice, then you will be pleased to know that AVK has designed a range of valves and couplers especially for use in polyethylene (HDPE) piping systems, lowering installation costs and providing leak proof joints.

Two options are available:

1. POLYTAIL - Fully welded (either by butt or fusion weld method) isolation gate and ball valves.

The polytailed gate valves are factory mounted with sections of standard PE pipe pressed directly onto the grooved valve end. The grooving is combined with a compression ring which presses the PE pipe securely into the grooves. The polytailed ball valves are an integral part of the complete valve assembly.

Polytail Gate Valve (full bore) for isolation duties on water or gas. Clockwise or anti-clockwise stem closing, stem cap or handwheel operated. Size range available; PE50 to PE315



Series 36

Polytail Ball Valve for isolation duties on gas or water. Quarter turn clockwise close, square stem cap for operation by extended T key arrangement. Size range available; PE32 to PE180



Series 85

2. POLYGRIP - Mechanical tensile resistant isolation gate and butterfly valves as well as straight couplings, flange adaptors, end caps and support bushes.

When stress is applied to PE it 'creeps away' (cold flow) from the applied force as a stress relieving method which typically works against standard unrestrained coupling designs. A mechanically restrained coupling system that compresses equally around the circumference of PE pipes with a combined rubber gasket and metal tensile grip ring are preferred.

Another issue is 'toe-in' where the PE end may neck down after cutting and no longer remains round. AVK always recommends the use of their 316 stainless steel support bushes (Fig.1) which assist prevent creep, toe-in and ovality (Fig.2).



Left to right: Fig.1, Fig.2

Mechanically restrained tensile valve and coupling connections are ideal for installing or repairing PE pipe in wet areas or where electrical power is unavailable, access is restricted, volatile or otherwise impossible.

Polygrip Gate Valve (full bore) for isolation duties on water. Clockwise or anti-clockwise stem closing options. Stem cap or handwheel operated. Size range available; PE90 to PE315



Series 01

Polygrip Butterfly Valve for isolation and control duties on water. Lever or gearbox operated. Valve disc will clear the PE internal diameter bore without the need for additional spacer pieces. Size range available; PE90 to PE315



Series 813 + 623

Polygrip Straight Coupling to join lengths of poly pipe and End Caps to blank off the pipe end. Size range available; PE90 to PE315



From left to right: Series 621, Series 624

Polygrip Flange Adaptor (Table D/E) to join poly pipe to a flange connection. Size range available; PE90/DN80 to PE315/DN300



Series 623

All products are manufactured from either cast ductile iron material, fusion bonded epoxy (FBE) coated providing both internal and external corrosion protection or HDPE and as standard are suitable for PE pipe to PE100 SDR11. They are an ideal option and alternative to the traditional PE joining methods of flanges (stub type with backing rings) or shouldered type couplings.

More than meets the eye



Valves • Hydrants • Couplings

Water • Sewage • Fire Protection • Gas

Australian Made to Regional Standards for Local Conditions

559A Grand Junction Road
Wingfield, Adelaide 5013
South Australia



www.avkvalves.com.au

Phone: +61 08 8368 0900
Fax: +61 08 8368 0970
E-mail: info@avkvalves.com.au