



Datasheet

ENGLISH

RS Pro 2.5m Long PET 6 bar Braided Stainless Steel Hose

RS Stock No.711-8518





Description:

The Hydravend range of flexible hoses is designed for the safe and taint free conveyance of potable water supplies for both free standing appliances and domestic plumbing. The Hydravend range has been designed to incorporate the following key attributes:

- All materials approved to Water Regulation Advisory Scheme (WRAS)
- Co-extruded polyester liner with mirror smooth surface finish to reduce the risk associated with build-up of micro-organisms present in all potable water supplies.
- High gloss white surface finish facilitating easy cleaning
- Flexibility and excellent kink resistance.

Applications:

The Hydravend range is extensively used in the UK vending and plumbing market. This is due to its superior performance in delivering a taint free water supply and its high gloss finish helping to keep environments hygienic. The Hydravend range is ideally suited for:

- Free standing and desk top drinks vending machines
- Coffee brewers
- Water filtration equipment
- Ice making equipment
- Domestic and commercial tap connectors

General Performance Data:

| Hose Size | Internal Bore (mm) | Min Bend Radius @ 20°C | Working Pressure at 20°C (BAR) | Intermittent Working Pressure at 65°C (BAR) | Security Pressure at 20°C (BAR) |
|-----------|--------------------|------------------------|--------------------------------|---|---------------------------------|
| DN6 | 6.7 | 22mm | 12 | 6 | 18 |
| DN8 | 8.0 | 30mm | 12 | 6 | 18 |
| DN10 | 10.0 | 37mm | 12 | 6 | 18 |
| DN12 | 12.7 | 49mm | 12 | 6 | 18 |

Working: Pressure & temperature are stated as the maximum continuous value.

Security: Pressure is stated as the peak pressure to be attained for short durations or transient pressure spikes. Installations where water hammer exceeds the limits stated will invalidate warranty.

Bend: Minimum by which the hose can be bent without causing excessive stress to the hose fabric or kink.

**General Construction Data:**

| End Connection | Size Range | Material | Standard |
|---------------------------|-----------------|--------------------------------|--------------------|
| Female Swivel | 1/4BSP – 3/4BSP | CW614N/CW617N | EN12164/5 |
| Female Swivel Elbow | 3/8BSP – 3/4BSP | CW614N | EN 12164 |
| Male taper | 1/4BSP – 3/4BSP | CW614N | EN12164 |
| Compression 15mm | 15mm | CW614N/CW617N | EN1254-2, ISO 6957 |
| Compression 22mm | 22mm | CW614N/CW617N | EN1254-2, ISO 6957 |
| Compression Service Valve | 15mm | CW614N/CW617N | EN1254-2 |
| Compression Service Valve | 22mm | CW614N/CW617N | EN1254-2 |
| Standpipe | 15mm – 22mm | CW614N/CW617N | EN12164/5 |
| Push-fit Brass | 10mm - 22mm | CW614N/CW617N | EN12164/5 |
| Mono Block | 8mm to 12mm | CW614N | EN12164 |
| Pushfit Plastic | 15mm – 22mm | Acetyl Black | BS6920 |
| Female Swivel | 1/2BSP - 3/4BSP | Nylon Black or Natural | BS6920 |
| Female Elbow Swivel | 3/4BSP | Nylon Black, Translucent | BS6920 |
| Female Nut | 3/4BSP | Nylon 30% GF, Black or Natural | NA |
| Washer | 1/4BSP – 3/4BSP | Fibre, EPDM & Silicon | BS6920 |
| O rings & Washers | Various | EPDM | BS6920 |
| Hose Liner | DN06 – DN13 | Polyester | BS6920 |
| Hose Outer Layer | DN06 – DN13 | PVC White (Non Phenol) | |
| Hose Braid | | Polyester Yarn | |
| Ferrule | DN10 - DN27 | Stainless Steel 304 | EN 10088-2 |

Note

- External Brass fittings are supplied with nickel plated finish to avoid tarnishing.
- Male Taper fittings should be used with female swivel or push fit connections to avoid twisting and torsion stress.
- Compression Joints tested for Stress Corrosion Cracking to ISO 6957:1998.

Hose Data:

The Hydravend incorporates unique liner manufactured from polyester (Hytrel). The liner is designed to reduce the growth of waterborne micro-organisms compared to other materials. Quality is assured through,

Batch Code: Unique code to identify date of manufacture

WRAS Identification No

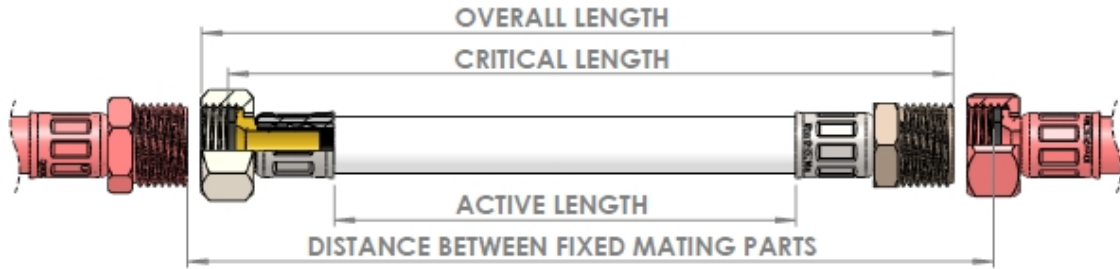
Range Name: Qualflex Hydravend

Working pressure: Maximum temperature and pressure

Dimensioning:

Hose assemblies are quoted by their overall length; as measured from end face to end face for each fitting. The standard manufacturing tolerance on overall length is:

- <500mm +/- 5.00mm
- >500mm +/- 10.00mm



Critical length is the distance between hose mating faces. This must be 10% greater than the actual distance between the two corresponding fixed mating parts to avoid tensile stress whilst in service.

Active length is the length by which pressure and movement is absorbed by the flexible hose.

Ferrule Data:

The ferrule is an integral part of the swage joint, between the end fitting and the flexible hose. The integrity of the ferrule must be maintained throughout its service.

Note: Do not use grippers or spanners to secure against the end connections

The ferrule contains important information:

- WRAS Identification: QWRAS
- Temperature: 6 bar @ 65°C
- Date of manufacture: *Year and month code*

Month Code

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| A | B | C | F | G | H | L | N | P | S | T | V |

Standards:

Water Regulations Advisory Scheme (WRAS) certificate 1301058 and complies with requirements of

- The Water Supply (Water Fittings) Regulations 1999,
- The Water Byelaws 2004 Scotland,
- Water Supply (Water Fittings) Regulations Northern Ireland 2009



Chemical Resistance:

The Hydravend range is designed for use with hot and cold potable water supplies. The Hydravend range should not be used in closed systems or in the presence of chemical inhibitors or solder fluxes.

Caution: Brass Fittings used on cold water lines will gather condensation and may become exposed to environments which are alkaline and corrosive, please see installation guide for best practices.

Installation:

Check the application does not exceed the rated temperature or pressure as stated for both continuous and transient variations. Flexible hoses should be installed by a competent Plumber or Engineer in accordance with standards and recommendations of BS 6700:2006. Installation guide parts 1 & 2 available on Hydraelectric website www.hydraelectric.com.

Quality Assurance:

Hydraelectric is ISO 9001: 2008 compliant as certified by British Standards Institute under certification number FM592672. The Hydravend range is manufactured under strict quality assurance systems to ensure compliance, the following tables summarises the different tests available for product development and manufacturing, these are updated and subject to change.

| TEST | Development | Production |
|----------------------------|----------------------------------|------------|
| Working Pressure | Material, Process & new Product. | QA Audit |
| Burst Pressure | Material, Process & new Product. | QA Audit |
| Thermal Ageing and Fatigue | Material, Process & new Product. | QA Audit |
| Tensile Pull Test | Material, Process & new Product. | Audit |
| Visual Compliance | | 100% |
| Overall length | | 100% |

Technical Assistance:

Please contact our Sales or Technical Support team on 0044 (0) 1932 334200, or visit our website www.hydraelectric.com.