

TECHNICAL DATA SHEET - 35080 to 35085

Flexible Pump Connector Stainless Steel Universal Hose Assembly

Specification Stainless steel screwed universal hose assembly consisting of stainless steel convoluted hose grade 321, complete with stainless steel outer protective braid grade 304. Fitted with fixed carbon steel male B.S.P.T. end connections.

Application Stainless steel universal hose assemblies are designed to absorb vibration, accommodate misalignment and lateral movement. They will provide the flexing movements required when piping up to non static machinery or equipment. In addition these assemblies can be used as final connections to oil or gas burners and other general pipework duties including sprinkler racking systems etc. For use on chilled water, L.T.H.W, M.T.H.W, H.T.H.W, steam, oil, compressed air and other hot liquids and gases.



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Maximum working temperature 300°C.
Maximum working pressure see table below.
Stainless steel universal hose assemblies should not be used at both their maximum working temperature and pressure respectively.
Maximum test pressure = 1.5 x working pressure or 1.5 x end connection rating, whichever the lower.

Part number	N.B. (mm)	Minimum Static Bend Radius (mm)	Installed Length (mm)				Maximum Working Pressure (bar) @120°C	Test Pressure (bar)
			300	450	600	1000		
			+/- Move	+/- Move	+/- Move	+/- Move		
35080	20	38	24	96	206	592	68	102
35081	25	45	14	68	160	520	54	81
35082	32	58	12	60	140	478	46	69
35083	40	70	6	42	108	408	36	54
35084	50	85	4	34	90	358	33	50
35085	65	105	1	18	62	280	30	45

Screwed end connections available.

Suffix. : B.S.- Fixed stainless steel barrel nipple
 B. - Fixed carbon steel barrel nipple B.S.P.T.
 B.S.P.T.H.S.- Fixed stainless steel hex head barrel nipple
 B.S.P.T. Fixed carbon steel hex head nipples B.S.P.T.
 F.F.S- Swivel stainless steel flat face female B.S.P.P.
 F.F.- Swivel carbon steel flat face female B.S.P.P.

Alternative hose lengths and end connections are available on request.

For applications requiring larger sizes or flanged connections the flanged stainless steel universal hose assembly should be selected.

Please refer to guidance notes for the correct use and installation of stainless steel universal hose assemblies.

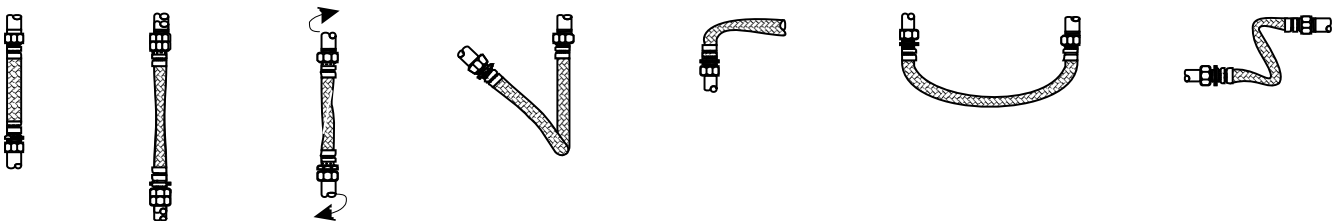
All products should be installed in accordance with our fitting instructions.

All hose lengths have a tolerance of up to 5%.

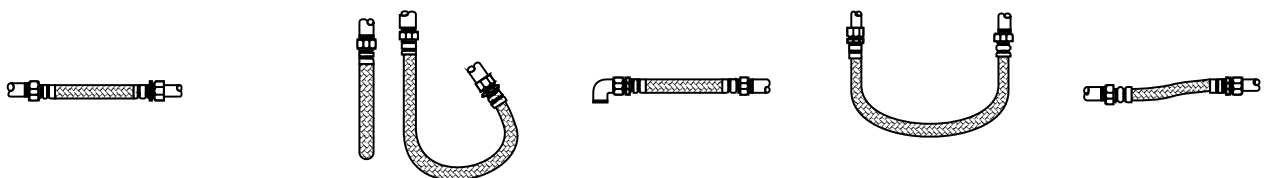
Installation, Operation and Maintenance Instructions for Stainless Steel Universal Hose Assemblies

- Storage** Stainless steel universal hose assemblies should be stored in a clean dry area and be protected from damage caused by other items of plant and equipment.
- Inspection** Stainless steel universal hose assemblies should be inspected for any damage to the hose convolutions, braiding or end connections.
- Selection** Brymec offer a complete range of stainless steel universal hose assemblies. Check that the correct universal hose assembly has been selected for the operating conditions that exist. Temperature, pressure and movement should all be confirmed as the wrong selection may result in failure of the system. Check that the correct end connections and installation lengths have been selected to suit the equipment being installed. Ensure that if any water treatment flushing agent or chemicals etc. are to be used in the heating or cooling system that they are compatible with the universal hose assembly being installed. Advice from the manufacturers of any chemicals should be sought if any doubts exist on the suitability of the universal hose assemblies.
- Installation** Care should be taken when fitting stainless steel universal hose assemblies to avoid any of the following errors in installation :
- Over-tightening of the end connections resulting in torsion on the universal hose assembly.
 - Fitting without the fibre washer (flat seat union end).
 - Compression stretching or tensioning of the universal hose assembly.
 - Flattening, Kinking or exceeding the permissible bend radius of the hose assembly.
- These examples illustrate some of the common errors but do not obviate the need for installations to be carried out in accordance with best pipework practices. For further information on installation lengths and minimum bend radii see data sheets for universal hose assemblies.

Examples of incorrect installation.



Correct installation.



- Pressure Test** If a hydraulic pressure test is to be carried out on a system containing stainless steel universal hose assemblies, ensure that the test pressure (usually 1.5 x working) does not exceed the test pressure of the universal hose assembly being installed.
- Maintenance** When properly installed and used at their correct operating temperature and pressure stainless steel universal hose assemblies will give many years of trouble free service. However universal hose assemblies should be inspected periodically for signs of deterioration. Universal hose assemblies should not be painted as this may reduce service life. Universal hose assemblies are an important part of any heating or chilled water system and consideration should be given to keeping a quantity of spares that would prevent a long term shutdown of the system.