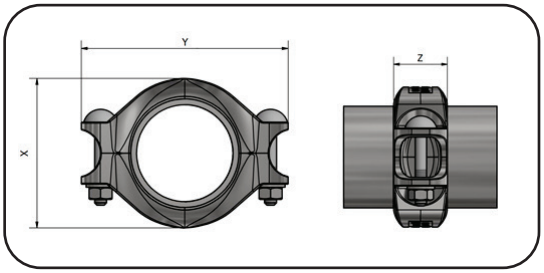
Piedmont

STYLE H
HIGH PRESSURE

Working Pressure:
2000 psi (137.9 bar)
for all sizes[1].



Applications:

Ideal for ultra-high-pressure RO systems, HPB Energy Recovery turbochargers, high pressure sides of ERD (Energy Recovery Devices), ZLD (Zero liquid discharge) systems.

Housing - Duplex or Superduplex stainless steel type CE8MN (UNS # J93345) conform to ASTM A995, Grade 2A requirements. Piedmont also offers this coupling in superduplex type CE3MN (UNS # J93404) conform to ASTM A995, Grade 5A requirements for higher resistance to corrosion.

Other alloys are also available; contact Piedmont for details.

Gaskets - EPDM rubber, suitable for hot and cold water services. Two shapes of gaskets are available: C-shaped or Flush-fit. NSF/ANSI 61 approved or equivalent (FDA) for drinking water system components. Not suitable for petroleum service.

Other materials are also available, contact Piedmont for details.

Hardware (Bolts / Nuts / Washers) - Hardware components are iso metric thread type:

- Bolts are round-head oval neck track bolts (own design)
- Nuts are according to DIN-934 (ISO-4032).
- Washers are according to DIN-125-1 (ISO 7089).

Style H Specifications

Nominal size	Pipe OD	Dimensions			Approx. weight	Working pressure*	Bolt/Nut
		X	Y	Z			
Inches/ DN (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	lbs. (kg)	PSI (bar)	Qty. – Size (mm)
1" DN25	1.315 (33.40)	2.40 (60.9)	3.80 (96.7)	1.68 (42.7)	0.97 (0.44)	2000 (137.9)	2 – M12 x 65
1-1/2" DN40	1.900 (48.26)	2.94 (74.6)	4.3 (109.2)	1.71 (43.4)	1.21 (0.55)	2000 (137.9)	2 – M12 x 65
2" DN50	2.375 (60.33)	3.50 (88.9)	4.02 (127.5)	1.78 (45.2)	1.92 (0.87)	2000 (137.9)	2 – M16 x 65
2-1/2" DN65	2.875 (73.03)	4.04 (102.6)	5.8 (147.2)	1.85 (47.0)	2.40 (1.09)	2000 (137.9)	2 – M16 x 65
3" DN80	3.500 (88.90)	4.84 (123.1)	6.7 (170.2)	1.85 (47.0)	2.64 (1.20)	2000 (137.9)	2 – M20 x 85
4" DN100	4.500 (114.30)	6.00 (152.4)	7.8 (198.5)	2.02 (51.3)	4.54 (2.06)	2000 (137.9)	2 – M20 x 85

Hardware material (specify material choice):

- ☐ SS Duplex 2205 / S32205 as per ASTM A1082 (PREN>35)
- ☐ SS Super duplex 2507 / S32750 as per ASTM A1082 (PREN>40)
- ☐ 316 Stainless Steel as per ASTM A276 (PREN>23)
- ☐ Optional: silicon bronze nuts (heavy hex type 651).

NOTE

- *For the use of Style H couplings on cyclic axial displacement systems, please consult with Piedmont for design and installation guidance.*
- *Hexagonal head bolts (DIN-931/ ISO-4014), instead of oval neck bolts, may be used upon Piedmont approval.*
- *Silicon bronze nuts, when coupled to SS bolts, avoid the use of any additional antigalling paste.*

[1] Working pressures have been determined based on generally accepted standard specifications for performance of gasketed mechanical couplings, in accordance with ASTM F1476. And it is applicable for schedule 80s pipes (or heavier) with cut grooves only. The pipe or connecting fittings must be cut-grooved in accordance with Piedmont published cut-grooving specifications (based on ANSI / AWWA C606: Standard for Groove & Shouldered Joints). Pipe's schedule, working pressure and material must comply with the requirements of ASME B31.1. For SWRO high pressure applications, Piedmont recommends our couplings to be installed on pipe, and/or connecting fitting, alloys with high corrosion & crevice resistance such as UNS S32750 & S32760 super duplex, S31254 and N08367. That is, PREN ≥ 40 & CF ≥ 35.