

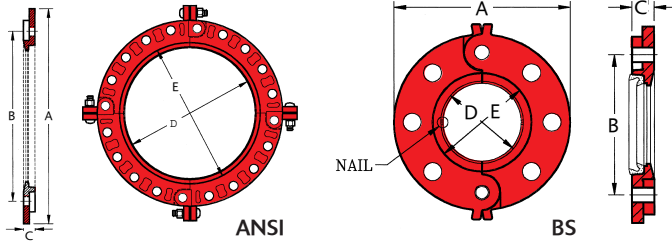
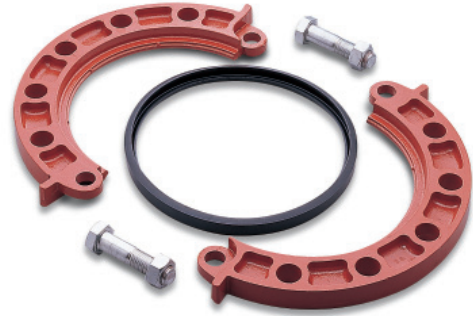


Flange Adaptors

Class 7041-A, B & E

Technical Features

- Available coupling sizes (Nominal) : 2" - 24" ANSI 125/150, 50 - 300mm BS4504 PN16, 2" - 8" BS10 Table E.
- Max Working Pressure : See table below
- Material : Ductile Iron to ASTM A536, Gr. 65-45-12. Grade "E" EPDM Rubber Gasket (Grade "T" Nitrile on option). Plated Steel Bolts and Nuts to ASTM A307.
- Finish : RAL3000 Red, Optionally Galvanised or Epoxy Coated.
- Connections : The Class 7041 Flange allows a direct connection with ANSI Class 125/150, BS4504 PN16 or BS10-Table E.



Grooved Products

Flange Adaptors - Class 7041-A Class ANSI 125/150

Physical Data

Nominal Size (in)	Pipe O.D.	Max Wk. Pressure MPa / psi	Dimensions (mm / inch)			Sealing Surface		Bolts		Weight kgs/lbs	Reference	
			A	B	C	D	E	Dia. (inch)	Nr.		Painted	Galvanized
2"	60.3 / 2.375	2.0 / 300	152 / 6.0	121 / 4.25	19 / 0.75	60 / 2.36	87 / 3.42	5/8 x 3	4	1.4 / 3.1	7041/060ANSI	7041/060ANSIG
2 1/2"	73.0 / 2.875	2.0 / 300	178 / 7.0	140 / 5.50	22 / 0.87	73 / 2.87	102 / 4.00	5/8 x 3	4	2.2 / 4.9	7041/073ANSI	7041/073ANSIG
3"	88.9 / 3.5	2.0 / 300	190 / 7.5	152 / 6.00	24 / 0.94	89 / 3.50	116 / 4.56	5/8 x 3	4	2.5 / 5.5	7041/089ANSI	7041/089ANSIG
4"	114.3 / 4.5	2.0 / 300	229 / 9.0	191 / 7.50	24 / 0.94	114 / 4.50	141 / 5.56	5/8 x 3	8	3.5 / 7.7	7041/114ANSI	7041/114ANSIG
5"	141.3 / 5.563	2.0 / 300	254 / 10.0	216 / 8.50	24 / 0.94	141 / 5.56	171 / 6.73	3/4 x 3 1/2	8	4.2 / 9.3	7041/141ANSI	7041/141ANSIG
6"	168.3 / 6.625	2.0 / 300	279 / 11.0	241 / 9.50	25 / 1.00	168 / 6.62	198 / 7.79	3/4 x 3 1/2	8	4.6 / 10.2	7041/168ANSI	7041/168ANSIG
8"	219.1 / 8.625	2.0 / 300	343 / 13.5	298 / 11.75	28 / 1.12	219 / 8.62	254 / 10.00	3/4 x 3 1/2	8	7.1 / 15.6	7041/219ANSI	7041/219ANSIG
10"	273.0 / 10.75	2.0 / 300	406 / 16.0	362 / 14.25	30 / 1.18	273 / 10.75	308 / 12.12	7/8 x 4	12	10.2 / 22.5	7041/273ANSI	7041/273ANSIG
12"	323.9 / 12.75	2.0 / 300	482 / 19.0	432 / 7.00	32 / 1.25	324 / 12.74	359 / 14.13	7/8 x 4	12	15.4 / 33.9	7041/324ANSI	7041/324ANSIG

Flange Adaptors - Class 7041-B BS4504 PN16

Physical Data

Nominal Size (mm)	Pipe O.D.	Max Wk. Pressure MPa / psi	Dimensions (mm)			Sealing Surface		Bolts		Weight kgs	Reference	
			A	B	C	D	E	Dia. (mm)	Nr.		Painted	Galvanized
50	60.3	1.6 / 232	165	125	22	60	87	M16 X 70	4	1.4	7041/060PN16	7041/060PN16G
65	76.1	1.6 / 232	185	145	22	76	105	M16 X 70	4	2.2	7041/076PN16	7041/076PN16G
80	88.9	1.6 / 232	200	160	24	89	116	M16 X 70	8	2.5	7041/089PN16	7041/089PN16G
100	114.3	1.6 / 232	220	180	24	114	141	M16 X 70	8	3.5	7041/114PN16	7041/114PN16G
150	165.1	1.6 / 232	285	240	24	165	195	M16 X 70	8	4.2	7041/165PN16	7041/165PN16G
200	219.1	1.6 / 232	340	295	24	219	254	M20 X 90	12	4.6	7041/219PN16	7041/219PN16G
250	273.0	1.6 / 232	405	355	26	273	308	M24 X 100	12	7.1	7041/273PN16	7041/273PN16G
300	323.9	1.6 / 232	460	410	28	324	359	M24 X 100	12	10.2	7041/323PN16	7041/323PN16G



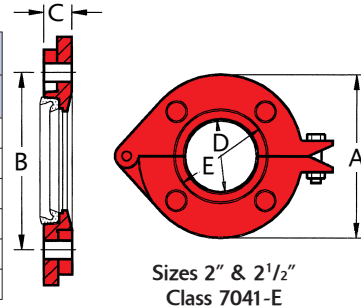
Flange Adaptors

Class 7041-A, B & E

Flange Adaptors - Class 7041-E BS10 Table E

Physical Data

Nominal Size (in)	Pipe O.D.	Max Wk. Pressure MPa / psi	Dimensions (mm)			Sealing Surface		Bolts		Weight kgs	Reference	
			A	B	C	D	E	Dia. (inch)	Nr.		Painted	Galvanized
2"	60.3	1.4 / 203	152	114	22	60	87	5/8 x 3	4	1.4	7041/060TABE	7041/060TABEG
2 1/2"	73.0	1.4 / 203	165	127	22	76	105	5/8 x 3	4	2.4	7041/073TABE	7041/073TABEG
3"	88.9	1.4 / 203	184	146	24	89	116	5/8 x 3	4	2.5	7041/089TABE	7041/089TABEG
4"	114.3	1.4 / 203	216	178	24	114	141	5/8 x 3	8	3.5	7041/114TABE	7041/114TABEG
6"	168.3	1.4 / 203	279	235	24	165	195	3/4 x 3 1/2	8	4.4	7041/168TABE	7041/168TABEG
8"	219.1	1.4 / 203	337	292	26	219	254	3/4 x 3 1/2	8	7.0	7041/219TABE	7041/219TABEG

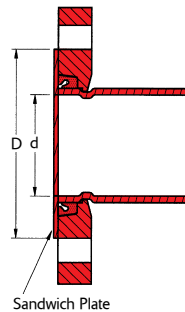


Flange Adaptors - Class 7041

Installation

Flange Washer

The Class 7041 flanges require a hard flat surface for effective gasket sealing. A flange washer is required and should always be used when the mating surface is not adequate, for example the serrated faces of some valves or the rubber-faced or rubberlined flange of the wafer valve.



Nominal Size (mm/in)	D (mm/in)	d (mm/in)
65 / 2 1/2"	118 / 4.65	67 / 2.64
80 / 3"	130 / 5.12	81 / 3.19
100 / 4"	158 / 6.22	105 / 4.13
125 / 5"	188 / 7.40	128 / 5.00
150 / 6"	216 / 8.50	155 / 6.10
200 / 8"	271 / 10.67	205 / 8.07
250 / 10"	326 / 12.83	258 / 10.15
300 / 12"	381 / 15.00	305 / 12.00

Closure Tabs

Integral closure tabs located on the flange OD help to facilitate alignment and assembly. When required use a C-clamp, wrench or pliers to draw the closure tabs towards each other until the flange holes are aligned, then insert the bolt.



Important Notes

- The Sealing Surface of the mating flange, the area shown between D and E in the top illustration, shall be free from gouges, undulations or deformities of any type to secure optimum sealing.
- Class 7041 flanges have small triangular teeth inside the key shoulder to prevent the pipe from rotating. The teeth should be ground off when mating to a rubber-lined flange, and or light wall Schedule 5 pipe.
- Class 7041 flanges require a hard flat surface for effective gasket sealing. A flange washer shall always be used when mating to:
 - 3-1) A rubber-faced or rubber lined flange, as widely seen in wafer valves (lug valves): See illustration Note 3-1.
 - 3-2) A serrated face flange: In this case, use a regular flange gasket as well as a flange washer as illustrated in Note 3-2.

- When attempting to use a Class 7041 flange against a butterfly valve or ball valve, make sure that the outside dimensions do not interfere with the valve actuator or valve handle.
- Class 7041 flanges shall not be used as anchor points for tierods across non-restrained joints. Do not use Class 7041 flanges within 90 degrees of one another on standard fittings when the outside dimensions cause interference.

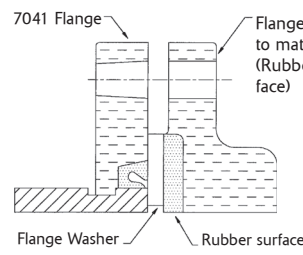


Figure 3-1

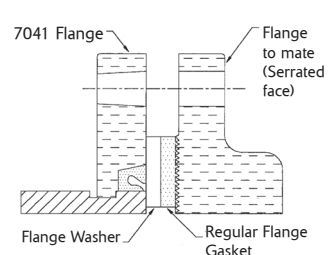


Figure 3-2