SERVING THE WATERWORKS INDUSTRY SINCE 1958

ROBAR

INDUSTRIES

Pipe and Fitting OD Range Chart

Type of Pipe	PIPE OD	End Code	Coupling Working Range
3″			
Steel/HDPE IPS PVC	3.50	4″4T	3.45-3.60
Ductile Iron C900/C905	3.80	4″F3A	3.75-4.05
Cast Iron	3.96	4″F3A	3.75-4.05
A/C ME	3.74/3.84	4″F3A	3.75-4.05
A/C class 100	3.93-3.95	4″F3A	3.75-4.05
A/C class 150	4.03-4.13	4″F3B	4.05-4.35
A/C class 200	4.17-4.29	4″F3B	4.05-4.35
SDR35	–	–	–
Woodstave	–	–	–

Type of Pipe	PIPE OD	End Code	Coupling Working Range
4″			
Steel/HDPE IPS PVC	4.50	4″D3	4.40-4.60
Ductile Iron C900/C905	4.80	4″A1	4.74-5.10
Cast Iron	5.00	4″A1	4.74-5.10
A/C ME	4.81	4″A1	4.74-5.10
A/C class 100	4.70-5.26	4″A1 4″E5	4.74-5.10 5.10-5.30
A/C class 150	4.97-5.32	4″A1 4″E5	4.74-5.10 5.10-5.30
A/C class 200	5.22-5.57	4″E5	5.10-5.30
SDR35	4.21	4″F3B	4.05-4.35
Woodstave	6.13	6″F3A	5.85-6.15

Type of Pipe	PIPE OD	End Code	Coupling Working Range
6″			
Steel/HDPE IPS PVC	6.63	6″D3	6.50-6.70
Ductile Iron C900/C905	6.90	6″A1	6.86-7.10
Cast Iron	7.10	6″A1	6.86-7.10
A/C ME	6.91	6″A1	6.86-7.10
A/C class 100	7.05-7.48	6″A1 6″E5	6.86-7.10 7.15-7.35
A/C class 150	7.10-7.43	6″E5	7.15-7.35
A/C class 200	7.23-7.60	6″E5	7.15-7.35
SDR35	6.28	6″F3B	6.15-6.45
Woodstave	8.25	8″F3A	7.90-8.25

Type of Pipe	PIPE OD	End Code	Coupling Working Range
8″			
Steel/HDPE IPS PVC	8.63	8″D3	8.55-8.75
Ductile Iron C900/C905	9.05	8″A1	8.99-9.30
Cast Iron	9.30	8″A1	8.99-9.30
A/C ME	9.11	8″A1	8.99-9.30
A/C class 100	9.22-9.75	8″A1 8″E5	8.99-9.30 9.30-9.50
A/C class 150	9.39-9.75	8″E5	9.30-9.50
A/C class 200	9.39-9.81	8″E5	9.30-9.50
SDR35	8.40	8″F3B	8.25-8.55
Woodstave	10.25	10″F4A	9.85-10.20

Type of Pipe	PIPE OD	End Code	Coupling Working Range
10″			
Steel/HDPE IPS PVC	10.75	10″D4	10.60-10.90
Ductile Iron C900/C905	11.10	10″B2	11.10-11.40
Cast Iron	11.40	10″B2	11.10-11.40
A/C ME	10.89-11.66	10″B2 10″A1	11.10-11.40 11.55-11.75
A/C class 100	11.25-11.83	10″B2 10″A1	11.10-11.40 11.55-11.75
A/C class 150	11.85-12.26	10″E5	11.90-12.10
A/C class 200	11.77-12.31	10″E5	11.90-12.10
SDR35	10.50	10″F4B	10.20-10.50
Woodstave	12.25	12″F3A	12.00-12.30

Type of Pipe	PIPE OD	End Code	Coupling Working Range
12″			
Steel/HDPE IPS PVC	12.75	12″D4	12.60-12.90
Ductile Iron C900/C905	13.20	12″B2	13.20-13.60
Cast Iron	13.50	12″B2	13.20-13.60
A/C ME	12.99-13.92	12″B2 12″A1	13.20-13.60 13.80-14.10
A/C class 100	13.37-14.10	12″B2 12″A1	13.20-13.60 13.80-14.10
A/C class 150	14.10-14.35	12″E5	14.10-14.35
A/C class 200	14.03-14.55	12″E5	14.10-14.35
SDR35	12.50	12″F4B	12.30-12.60
Woodstave	14.25	12″E5	14.10-14.35

Type of Pipe	PIPE OD	End Code	Coupling Working Range
14″			
Steel/HDPE IPS PVC	14.00	12″A1	13.80-14.10
Ductile Iron C900/C905	15.30	14″B2	15.30-15.70
Cast Iron	15.65	14″B2	15.30-15.70
A/C ME	15.07-16.22	14″B2 14″A1	15.30-15.70 15.80-16.25
A/C class 100	15.26-15.89	14″B2 14″A1	15.30-15.70 15.80-16.25
A/C class 150	16.41-16.85	14″E5	16.40-16.80
A/C class 200	16.41-16.95	14″E5	16.40-16.80
SDR35	–	–	–
Woodstave	16.25	14″A1	15.80-16.25

Type of Pipe	PIPE OD	End Code	Coupling Working Range
16″			
Steel/HDPE IPS PVC	16.00	14″A1	15.80-16.25
Ductile Iron C900/C905	17.40	16″B2	17.40-17.80
Cast Iron	17.80	16″B2	17.40-17.80
A/C ME	17.15 18.62	16″F2 16″E5	17.10-17.40 18.40-18.80
A/C class 100	17.34-18.03	16″B2 16″A1	17.40-17.80 17.40-18.20
A/C class 150	18.62-19.20	18″B1	18.80-19.20
A/C class 200	18.65-19.30	18″B1	18.80-19.20
SDR35	–	–	–
Woodstave	18.50	16″E5	18.40-18.80

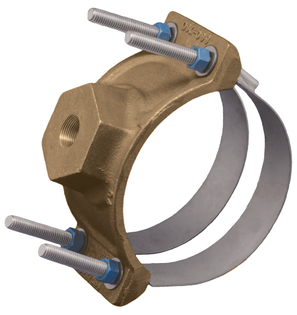
Type of Pipe	PIPE OD	End Code	Coupling Working Range
18″			
Steel/HDPE IPS PVC	18.00	16″A1	17.80-18.20
Ductile Iron C900/C905	19.50	18″A2	19.10-19.70
Cast Iron	19.92	18″E5	19.70-20.25
A/C ME	19.90 22.18	18″E5 20″E5	19.70-20.25 21.75-22.25
A/C class 100	20.55-20.65	–	–
A/C class 150	21.43-22.56	20″A2 20″E5	21.35-21.75 21.75-22.25
A/C class 200	19.80-23.14	18″E5 22″B1	19.70-20.25 22.95-23.35
SDR35	18.70	16″E5	18.40-18.80
Woodstave	–	–	–

Type of Pipe	PIPE OD	End Code	Coupling Working Range
20″			
Steel/HDPE IPS PVC	20.00	18″E5	19.70-20.25
Ductile Iron C900/C905	21.60	20″A2	21.35-21.75
Cast Iron	22.06	20″E5	21.75-22.25
A/C ME	22.12 24.66	20″E5	21.75-22.25
A/C class 100	22.68	–	–
A/C class 150	22.96-23.44	22″B1	22.95-23.35
A/C class 200	25.02-25.42	–	–
SDR35	–	–	–
Woodstave	–	–	–

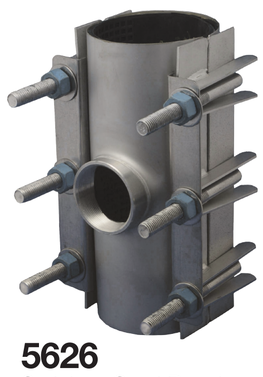
Type of Pipe	PIPE OD	End Code	Coupling Working Range
24″			
Steel/HDPE IPS PVC	24.00	22″E5	23.75-24.25
Ductile Iron C900/C905	25.80	24″A2	25.70-26.00
Cast Iron	26.32	24″E5	26.10-26.32
A/C ME	26.48-29.62	–	–
A/C class 100	27.15-27.30	–	–
A/C class 150	28.32- 28.75	–	–
A/C class 200	29.98	–	–
SDR35	24.80	–	–
Woodstave	–	–	–

Nom. Pipe	Steel/ HDPE IPS PVC	Ductile Iron C900/C905
30″	30.00	32.00
36″	36.00	38.30
42″	42.00	44.50
48″	48.00	50.80
54″	54.00	57.56
60″	60.00	61.60

1506
Cast Iron Ductile Couplings

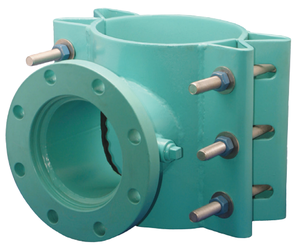


2706
Cast Bronze Service Saddles



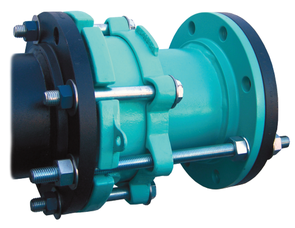
5626
Stainless Steel Repair Clamps

6606
Stainless Steel Tapping Sleeves

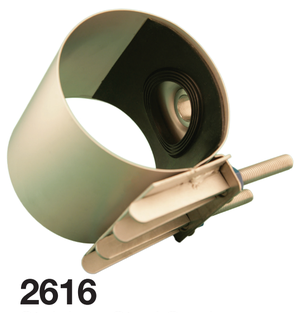


6906
Fabricated Mild Steel Tapping Sleeves

ARPOL
Fix Restrained Coupling

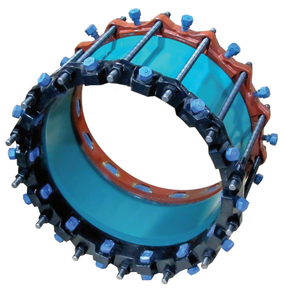


7506DJ
Dismantling Joint



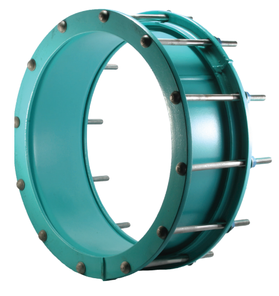
2616
Stainless Steel Service Saddles

Vantage 1596
Coupling



1908 RSC
Restrained Coupling

9626
Stainless Steel Adjustable Insert



1906
Fabricated Steel Couplings

OBJECTIVE: The Pipe OD Chart is intended to enable the user to quickly and effectively select the correct Robar Coupling end assembly code for given nominal sizes, types and actual diameters of commonly used pipes for waterworks and effluent services.

End Codes and Pipe Diameters: The coupling end code, otherwise known as the End Assembly Code, consists of a letter (for the gasket identity) and a number (for the end ring identity.)

Your request will be filled quickly and accurately if all the information is provided when placing inquires and/or orders. Whenever possible, always specify the actual pipe OD's. The ranges or sizes are best estimates only. Actual diameters may vary due to manufacturing tolerance and design changes.

The use of the OD tape is recommended to establish and verify ACTUAL diameters, which may be different from manufacturers "average" specified values, especially when dealing with Asbestos Cement Rough barrel (AC).

Out-of-round pipes can cause fitting problems even though their OD fits within the working range of the coupling.

The "Coupling Range" specified for a given Robar End Assembly is a conservative figure which specifies the lower and upper extreme of the working capability under normal conditions.

Polyethylene may be soft or deformable to such an extent that a standard compression coupling gasket's seal pressure will be released by deflection of the pipe shell, resulting in leakage and failure of joint. Stainless steel inserts, available from Robar, may be used to counteract plastic deflection. Inserts must be carefully selected and sized to fit the ID of the pipe.

Proper restraint of pipes, especially plastic pipes, is necessary to resist pullout, due to pressure, temperature and surge effects, among other forces.

SURREY, BC
Phone 1.800.663.6553

SAINT-BRUNO, QC
Phone 1.800.315.9525

robarindustries.com