

AJ550R / AJ550F

Catalog-based product reference

One-stop grooved couplings for KS pipe outside diameters. Select the rigid R or flexible F configuration to suit the piping system.

Nominal sizes · DN 50–200 · 7 sizes per configuration

Actual pipe O.D. · 60.5–216.3 mm

Catalog maximum working pressure · DN 50–125: 30 / DN 150–200: 26 kgf/cm²

Configuration · AJ550R rigid / AJ550F flexible

Catalog materials & finish

Housing: ductile iron, GCD450

Gasket: EPDM

Bolts and nuts: carbon steel for machine structural use

Finish: epoxy coating

Nominally similar AJ550 and AJ560 sizes can have different outside diameters: AJ550 DN 50 uses 60.5 mm; AJ560 NPS 2 uses 60.3 mm. Verify both the pipe designation and actual O.D.

A selection reference compiled from the public catalog. It is not a certificate or a complete installation manual. Confirm pressure, fluid, temperature, pipe wall, gasket and approval scope for the exact model and size.

2026 grooved piping catalog · PDF page 5 · See the tables and catalog reference on the following pages.

[Product, specifications & RFQ ↗](#)

[Installation readiness guide ↗](#)

AJ550R

2026 grooved piping catalog · PDF 5

Nominal size (DN)	Pipe O.D. (mm)	Max. working pressure (kgf/cm²)	Max. end load (kN)	Allowable pipe-end separation (mm)	A (mm)	B (mm)	C (mm)	Bolt Φ × L	Wrench (mm)	Weight (kg)
50	60.5	30	6.9	1.6	87	134	47	M10 × 60	17	0.96
65	76.3	30	11.0	1.6	103	151	47	M10 × 65	17	1.09
80	89.1	30	15.0	1.6	117	165	47	M10 × 65	17	1.37
100	114.3	30	24.6	2.9	143	198	50	M12 × 65	19	1.74
125	139.8	30	32.2	2.9	169	225	50	M12 × 75	19	2.16
150	165.2	26	45.0	2.9	200	260	50	M12 × 80	19	2.41
200	216.3	26	77.2	3.2	255	330	62	M16 × 85	24	4.15

Values from the 2026 grooved piping catalog. Match the actual pipe outside diameter, not nominal size alone. Confirm operating limits, movement allowances and approval scope for the selected model before ordering. A/B/C refer to the drawing in the original catalog below.

AJ550F

2026 grooved piping catalog · PDF 5

Nominal size (DN)	Pipe O.D. (mm)	Max. working pressure (kgf/cm²)	Max. end load (kN)	Allowable pipe-end separation (mm)	Deflection per joint (°)	Pipe deflection (mm/6m)	A (mm)	B (mm)	C (mm)	Bolt Φ × L	Wrench (mm)	Weight (kg)
50	60.5	30	6.9	1.6	1.51	158.2	87	134	47	M10 × 60	17	0.96
65	76.3	30	11.0	1.6	1.20	125.7	103	151	47	M10 × 65	17	0.92
80	89.1	30	15.0	1.6	1.03	107.9	117	165	47	M10 × 65	17	1.37
100	114.3	30	24.6	3.2	1.60	167.6	143	198	50	M12 × 65	19	1.74
125	139.8	30	32.2	3.2	1.31	137.2	169	225	50	M12 × 75	19	2.11
150	165.2	26	45.0	3.2	1.11	116.3	200	260	50	M12 × 80	19	2.32
200	216.3	26	77.2	3.2	1.83	191.7	255	330	62	M16 × 85	24	4.14

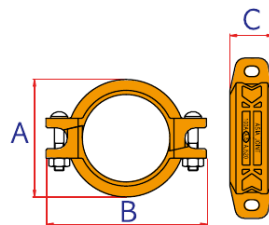
Values from the 2026 grooved piping catalog. Match the actual pipe outside diameter, not nominal size alone. Confirm operating limits, movement allowances and approval scope for the selected model before ordering. A/B/C refer to the drawing in the original catalog below.

Original catalog reference

2026 grooved piping catalog · PDF page 5

One-Stop Grooved Joint

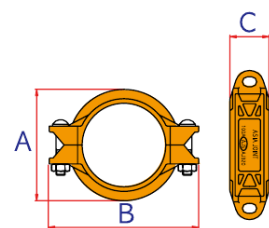
Rigid : AJ550R



- Joint mat'l : Ductile iron(GCD450)
- Gasket mat'l : EPDM
- Bolt/Nut mat'l : CS for machine structural use
- Paint : Epoxy coat

Nominal Size (DN)	Pipe O.D. (mm)	Max. Working Pressure (kgf/cm ²)	Max. End Load (kN)	Allow. Pipe End Sep (mm)	Dimensions(mm)			Bolt Size (Φ X L)	Wrench Size (mm)	Weight (kg)
					A	B	C			
50	60.5	30	6.9	1.6	87	134	47	M10 X 60	17	0.96
65	76.3	30	11.0	1.6	103	151	47	M10 X 65	17	1.09
80	89.1	30	15.0	1.6	117	165	47	M10 X 65	17	1.37
100	114.3	30	24.6	2.9	143	198	50	M12 X 65	19	1.74
125	139.8	30	32.2	2.9	169	225	50	M12 X 75	19	2.16
150	165.2	26	45.0	2.9	200	260	50	M12 X 80	19	2.41
200	216.3	26	77.2	3.2	255	330	62	M16 X 85	24	4.15

Flexible : AJ550F



- Joint mat'l : Ductile iron(GCD450)
- Gasket mat'l : EPDM
- Bolt/Nut mat'l : CS for machine structural use
- Paint : Epoxy coat

Nominal Size (DN)	Pipe O.D. (mm)	Max. Working Pressure (kgf/cm ²)	Max. End Load (kN)	Allow. Pipe End Sep (mm)	Degrees—per Joint	Pipe Deflection (mm/6m)	Dimensions(mm)			Bolt Size (Φ X L)	Wrench Size (mm)	Weight (kg)
							A	B	C			
50	60.5	30	6.9	1.6	1.51 °	158.2	87	134	47	M10 X 60	17	0.96
65	76.3	30	11.0	1.6	1.20 °	125.7	103	151	47	M10 X 65	17	0.92
80	89.1	30	15.0	1.6	1.03 °	107.9	117	165	47	M10 X 65	17	1.37
100	114.3	30	24.6	3.2	1.60 °	167.6	143	198	50	M12 X 65	19	1.74
125	139.8	30	32.2	3.2	1.31 °	137.2	169	225	50	M12 X 75	19	2.11
150	165.2	26	45.0	3.2	1.11 °	116.3	200	260	50	M12 X 80	19	2.32
200	216.3	26	77.2	3.2	1.83 °	191.7	255	330	62	M16 X 85	24	4.14