

COUPLINGS & CLAMPS

Ball Type Couplers - BSP

Matched coupling halves selected by connection type, size and application.

Ordering references: 5010-02 / 5010-03 / 5010-04 / 5010-05 / 5010-06 / 5050-02 / 5050-03 / 5050-04 / 5050-05 / 5050-06

Ball coupling exact-part specifications / column group 1 of 3

Part code	Coupling half	Thread system	Port size (in)	Port standard	nominal size	ISO interface size	Bore (mm)	Working pressure (bar)	Rated flow (L/min)	Maximum flow (L/min)
5050-02	female	BSP	1/4	DIN3852-2	6	6.3	5.3	300	12	20
5010-02	male	BSP	1/4	DIN3852-2	6	6.3	5.3	300	12	20
5050-03	female	BSP	3/8	DIN3852-2	10	10	7.4	250	23	35
5010-03	male	BSP	3/8	DIN3852-2	10	10	7.4	250	23	35
5050-04	female	BSP	1/2	DIN3852-2	13	12.5	8.9	200	30	55
5010-04	male	BSP	1/2	DIN3852-2	13	12.5	8.9	200	30	55
5050-05	female	BSP	3/4	DIN3852-2	20	19	12.4	200	60	120
5010-05	male	BSP	3/4	DIN3852-2	20	19	12.4	200	60	120
5050-06	female	BSP	1	DIN3852-2	25	25	13.1	200	80	160
5010-06	male	BSP	1	DIN3852-2	25	25	13.1	200	80	160

Identifying columns are repeated. Read all column groups together for the complete row specification.

Ball coupling exact-part specifications / column group 2 of 3

Part code	Body diameter (mm)	Overall length (mm)	Hex (mm)	Mass (g)	Spillage per disconnection (cm³)	Male-half burst pressure (MPa)	Female-half burst pressure (MPa)	Coupled-pair burst pressure (MPa)
5050-02	27	76.3	19	127	0.5	120	120	150
5010-02	16.9	38	19	47	0.5	120	120	150
5050-03	34	85.5	24	207	1.4	100	100	160

Ball coupling exact-part specifications / column group 2 of 3

Part code	Body diameter (mm)	Overall length (mm)	Hex (mm)	Mass (g)	Spillage per disconnection (cm³)	Male-half burst pressure (MPa)	Female-half burst pressure (MPa)	Coupled-pair burst pressure (MPa)
5010-03	21.5	42.5	24	86	1.4	100	100	160
5050-04	38	96.5	27	273	1.9	80	95	130
5010-04	23.75	48	27	101	1.9	80	95	130
5050-05	47	114.5	34	494	4.6	80	110	120
5010-05	31.05	57	34	205	4.6	80	110	120
5050-06	52	131.5	41	768	5.9	85	110	100
5010-06	34.5	65.5	41	302	5.9	85	110	100

Identifying columns are repeated. Read all column groups together for the complete row specification.

Ball coupling exact-part specifications / column group 3 of 3

Part code	Bg size	Port gender
5050-02	1	female
5010-02	1	female
5050-03	2	female
5010-03	2	female
5050-04	3	female
5010-04	3	female
5050-05	4	female
5010-05	4	female
5050-06	5	female
5010-06	5	female

Identifying columns are repeated. Read all column groups together for the complete row specification.

Exact male and female coupling halves with model-specific working pressure, flow and dimensions. Standard construction: steel body, Zn-Fe (Cr III) finish and NBR seals, -25°C to +100°C. Alternative seal materials require a separately confirmed configuration. Working pressure is in bar; burst pressure is in MPa and is not an operating rating. Do not connect or disconnect this family under residual pressure. Confirm interface compatibility before mating components. Installation lengths are confirmed against the dimensional drawing.

Ball coupling exact-part specifications - construction & conditions

Parameter	Specification
Body material	steel; grade not specified
Finish	Zn-Fe (Cr III)
Standard seal	NBR
Optional seal materials	FKM / EPDM / FFKM
Temperature min c (°C)	-25
Temperature max c (°C)	100
Connection under residual pressure	No

Exact male and female coupling halves with model-specific working pressure, flow and dimensions. Standard construction: steel body, Zn-Fe (Cr III) finish and NBR seals, -25°C to +100°C. Alternative seal materials require a separately confirmed configuration. Working pressure is in bar; burst pressure is in MPa and is not an operating rating. Do not connect or disconnect this family under residual pressure. Confirm interface compatibility before mating components. Installation lengths are confirmed against the dimensional drawing.

Application & quotation checklist

Coupling type, size and mating half; Medium, pressure and temperature; Body material and seal compound; Hose tail, thread, flange or weld connection

Request a quotation

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Provide the part code, size, quantity, required configuration and application. Include a drawing or photograph where available.

Ratings apply only to the specified product and configuration. Confirm fluid compatibility, temperature, pressure transients, installation and complete assembly suitability. Ordering references do not establish interchangeability.