

For use in China, Europe, Middle East and South East Asia only.

# K-Ball Series 180 and 182

## Floating Ball Valves

Model / Series	Size	End Connection	Drilling / Schedule	Face-to-Face	Pressure Rating	Body Material	Ball Material	Stem Material	Seat Material	Sealing Material	Mounting Type	Actuation Type	Optional Feature 1	Optional Feature ...	Actuation Option
180SF	0008	SW	00	00	CB	CA	S00	S0	T0	P0	I	B	NP1	TPZ	GS-001



### Model / Series

Code	Description
180SF	Series 180, Standard, Full Bore
180FF	Series 180, Fire Safe, Full Bore
180SR	Series 180, Standard, Reduced Bore
180FR	Series 180, Fire Safe, Reduced Bore
182SF	Series 182, Standard, Full Bore
182FF	Series 182, Fire Safe, Full Bore
182SR	Series 182, Standard, Reduced Bore
182FR	Series 182, Fire Safe, Reduced Bore

### End Connection

Code	Description
SW	Socket Weld - ASME B16.11
BF	Butt Weld - ASME B 16.25
BK	Butt Weld - 100 mm (4 inch) Pipe Extension
SE	Screwed Ends (Threaded)
MM	Multiple / Mixed End Connection
1F	Socket Weld - ASME / Screwed Ends
5Q	Socket Weld - ASME / Butt Weld - ASME B 16.25
5R	Socket Weld - ASME / Butt Weld - 100 mm (4 inch) Pipe Pup
5S	Butt Weld - ASME B 16.25 / Screwed Ends
5T	Butt Weld - ASME B 16.25 / Socket Weld - ASME B16.11
5U	Butt Weld - ASME B 16.25 / Butt Weld - 100 mm (4 inch) Pipe Pup
5M	Butt Weld - 100 mm (4 inch) Pipe Pup / Screwed Ends
5W	Butt Weld - 100 mm (4 inch) Pipe Pup / Socket Weld - ASME B16.11
5Y	Butt Weld - 100 mm (4 inch) Pipe Pup / Butt Weld - ASME B 16.25
3D	Screwed Ends / Socket Weld - ASME
6A	Screwed Ends (Threaded) / Butt Weld - ASME B 16.25
6B	Screwed Ends (Threaded) / Butt Weld - 100 mm (4 inch) Pipe Pup
ZZ	Special

### Size

Code	Description
0008	DN 8 / NPS ¼
0010	DN 10 / NPS ¾
0015	DN 15 / NPS ½
0020	DN 20 / NPS ¾
0025	DN 25 / NPS 1
0032	DN 32 / NPS 1¼
0040	DN 40 / NPS 1½
0050	DN 50 / NPS 2
0065	DN 65 / NPS 2½
0080	DN 80 / NPS 3
0100	DN 100 / NPS 4
ZZZZ	Special

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**Drilling / Schedule**

Code	Description
00	Standard (Refer to Product Literature)
BT	BSPT (Female)
NT	NPT (Female)
BP	BSPP (Female)
W1	Schedule 10
W4	Schedule 40
W8	Schedule 80
3F	BSPP / 100 mm (4 inch) Pipe Pup
2N	BSPP / Schedule 10
2P	BSPP / Schedule 40
2Q	BSPP / Schedule 80
2U	BSPP / Socket Weld
2R	BSPP / BSPT
2S	BSPP / NPT
3G	BSPT / 100 mm (4 inch) Pipe Pup
2W	BSPT / Schedule 10
1A	BSPT / Schedule 40
1B	BSPT / Schedule 80
BS	BSPT / Socket Weld
1C	BSPT / BSPP
BN	BSPT / NPT
3J	NPT / 100 mm (4 inch) Pipe Pup
1M	NPT / Schedule 10
1N	NPT / Schedule 40
1P	NPT / Schedule 80
NS	NPT / Socket weld
1R	NPT / BSPP
1Q	NPT / BSPT
3K	Schedule 10 / 100 mm (4 inch) Pipe Pup
1X	Schedule 10 / BSPP
1V	Schedule 10 / BSPT
1W	Schedule 10 / NPT
1T	Schedule 10 / Schedule 40
1U	Schedule 10 / Schedule 80
1Y	Schedule 10 / Socket Weld

Code	Description
3L	Schedule 40 / 100 mm (4 inch) Pipe Pup
2E	Schedule 40 / BSPP
2C	Schedule 40 / BSPT
2D	Schedule 40 / NPT
2A	Schedule 40 / Schedule 10
2B	Schedule 40 / Schedule 80
2F	Schedule 40 / Socket Weld
2L	Schedule 80 / BSPP
2J	Schedule 80 / BSPT
2K	Schedule 80 / NPT
2G	Schedule 80 / Schedule 10
2H	Schedule 80 / Schedule 40
2M	Schedule 80 / Socket Weld
3H	Socket Weld / 100 mm (4 inch) Pipe Pup
1K	Socket Weld / BSPP
1H	Socket Weld / BSPT
1J	Socket Weld / NPT
1E	Socket Weld / Schedule 10
1F	Socket Weld / Schedule 40
1G	Socket Weld / Schedule 80
3D	100 mm (4 inch) Pipe Pup / BSPP
3B	100 mm (4 inch) Pipe Pup / BSPT
3C	100 mm (4 inch) Pipe Pup / NPT
2V	100 mm (4 inch) Pipe Pup / Schedule 10
2Y	100 mm (4 inch) Pipe Pup / Schedule 40
3A	100 mm (4 inch) Pipe Pup / Schedule 80
3E	100 mm (4 inch) Pipe Pup / Socket Weld
ZZ	Special

**Face-to-Face**

Code	Description
00	Standard (Refer to Product Literature)

**Pressure Rating**

Code	Description
CB	ASME 600 / 1440 CWP / PN 100
CA	ASME 400 / 1000 CWP / PN 63
CC	ASME 300 / 740 CWP / PN 40

**Body Material**

Code	Description
CA	Carbon Steel A216 WCB
SE	Stainless Steel A351 CF8M
ZZ	Special

**Ball Material**

Code	Description
S00	Stainless Steel 316
ZZZ	Special

**Stem Material**

Code	Description
S0	Stainless Steel 316
U0	Stainless Steel Duplex
ZZ	Special

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									T0	P0	I	B	NP1	TPZ	GS-001
180SF	0008	SW	00	00	CB	CA	S00	S0							

**Seat Material**

Code	Description
T0	PTFE
RE	RPTFE (Glass Filled)
RB	RPTFE (25% Carbon Filled)
RC	RPTFE (50% SS Filled)
MG	MG1241
U8	UHMWPE
A0	PEEK
T4*	TFM 1600
ZZ	Special

**Sealing Material**

Code	Description
P0	PTFE
G0	Graphite
U0	UHMWPE
ZZ	Special

**Operator Mounting Type**

Code	Description
I	ISO 5211

**Actuation Type**

Code	Description
B	Bare Stem
L*	Default Handle / Lever

**Optional Features**

Code	Description
NP1	Additional 316 Stainless Steel Tag
TPZ	Special Hydrostatic Test Report

**Additional Actuation Options**

Code	Description
PS-#####	Standard Pneumatic Actuator <sup>[1]</sup>
HZ	Other Handle <sup>[2]</sup>
GZ	Other Gear Operators <sup>[2]</sup>
PZ	Other Pneumatic Actuators <sup>[2]</sup>
EZ	Other Electric Actuators <sup>[2]</sup>

**ACTUATION NOTES**

1. Additional characters identify actuator configuration.
2. Required operator, mounting and accessory part number(s) are specified per order acknowledgment.

**GENERAL NOTES**

\* Indicates standard configuration.

1. This document is intended for product model code decodification, not product configuration. Option availability and compatibility may be dependent on the selection of another option. For product configuration support, consult your local Emerson representative.
2. This list of options is not exhaustive. Consult your local Emerson representative for additional options.

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