ISO 5211 Valve Actuator Mounting Flange Dimensions

Part-turn valve to actuator attachment — mounting pad bolt circle, thread size and register bore for flange codes F03 through F40.

ISO 5211 specifies the mechanical attachment between a part-turn valve and its actuator or gearbox. The mounting pad is identified by a flange code (Fxx) that fixes the bolt-circle diameter (PCD), the number and thread size of the fixing holes, and the spigot register bore that centres the actuator on the valve. Matching the flange code on both the valve and the actuator is what makes them interchangeable across manufacturers.

Flange code	Bolt circle PCD (mm)	Register bore Ø (mm)	Fixing thread	No. of holes
F03	36	25	M5	4
F04	42	30	M5	4
F05	50	35	M6	4
F07	70	55	M8	4
F10	102	70	M10	4
F12	125	85	M12	4
F14	140	100	M16	4
F16	165	130	M20	4
F25	254	200	M16	8
F30	298	230	M20	8
F35	356	260	M30	8
F40	406	300	M36	8

Reading the table

- Bolt circle PCD — the pi
F03 to F16 carry four holes
- Register bore Ø — the d
mounting pad. It is not the
- Fixing thread — the metr
duty; ISO 5211 sizing assu
- Driving component — IS
example 9, 11, 14, 17, 22,
valve stem and actuator; c

Selecting a mounting bracket or adaptor kit

A mounting bracket (or ada
actuator clear of the valve.
(square size or keyway) an
example F05/F07), the larg

Reference compiled by cBallast
identification and cross-referenc
manufacture or procurement. Al