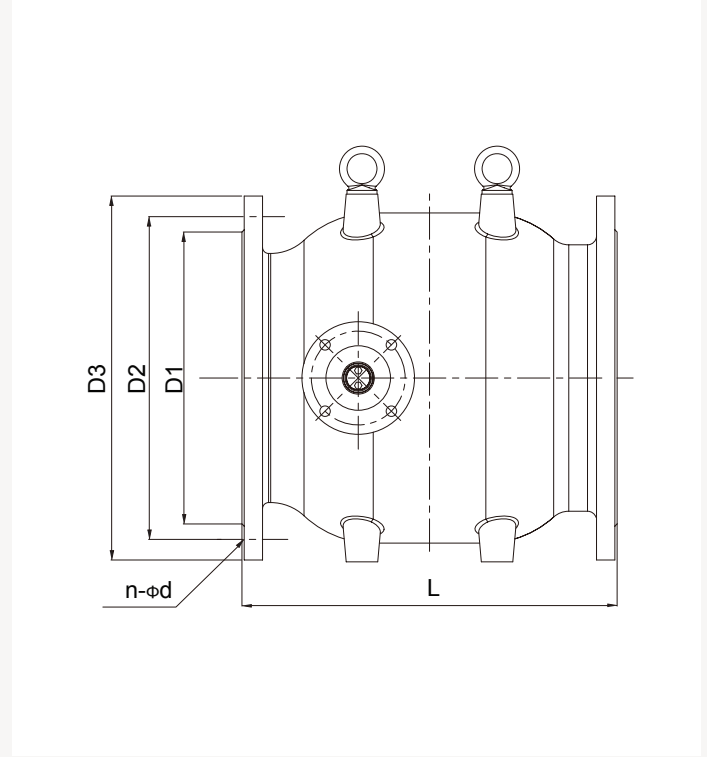


FCEX Plunger Valves



Material specification

FCEX Plunger Valves 10" to 64"

No	Component	Material
1	Body	Ductile iron
2	Crank	Ductile iron
3	Shaft	Stainless steel
4	Seat	304 stainless steel
5	O-ring	Rubber NBR
6	Sliding sleeve	304 stainless steel
7	Basic sleeve	304 stainless steel
8	Bearing	Bronze
9	Connecting rod	Stainless steel

Applicable standards:

- Flange dimension in accordance with EN 1092-2.
- Face to face dimension in accordance with EN 558-1 basic series 3.

Technical data:

- Size: DN 250 - DN 1600 (10" - 64").
- Maximum working pressure: 16 bar.
- Working temperature: 0 to 85 °C.
- Suitable medium: Air, water and other neutral liquids.

Features and benefits:

- Avoid cavitation corrosion and noise by controlling the water flow inside the valve channel to minimise low pressure zones.
- Counter balanced structure, reduces the operating torque under high pressure and high flow rates.
- Cage, disc designed for linear regulation. 100% linear modulation of the flow rate facilitates matching with a variety of applications.
- Metal to metal sealing, extremely smooth surface finish $\leq 0.8\mu\text{m}$ ensures zero leakage.
- Inner parts manufactured from long life corrosion resistant stainless steel.
- Self-lubricating bronze bushing, reduces friction, and lowers operating torque.
- Valve functions: Flow rate regulation, pressure modulation, fluid level control, and draining.
- Methods of operation: Gearbox, pneumatic actuator and motorised actuator enabling drive customisation in-line with applications requirements.
- Low actuating torque due to pressure balanced valve piston.
- Rotationally symmetrical flow guidance.
- Annular flow cross section in each position.
- Axial movement of the plunger by means of crank gear mechanism.
- Self-locking worm gear unit with position indicator.
- Sealing ring located in the no-flow zone for durability.
- Wear-resistant, corrosion-resistant, infiltration-proof, micro-finished stainless steel piston guides in the valve body.

FCEX Plunger Valve

Type	Size	DN	D1 mm	D2 mm	D3 mm	L mm	n-φd
FCEX-0250C	10"	250	319	355	405	500	12-28
FCEX-0300C	12"	300	370	410	460	500	12-28
FCEX-0350C	14"	350	429	470	520	700	16-28
FCEX-0400C	16"	400	480	525	580	800	16-31
FCEX-0500C	20"	500	609	650	715	1000	20-34
FCEX-0600C	24"	600	720	770	840	1200	20-37
FCEX-0700C	28"	700	794	840	910	1400	24-37
FCEX-0800C	32"	800	901	950	1025	1600	24-40
FCEX-0900C	36"	900	1001	1050	1125	1800	28-40
FCEX-1000C	40"	1000	1112	1170	1255	2000	28-43
FCEX-1200C	48"	1200	1328	1390	1485	2400	32-49
FCEX-1400C	56"	1400	1530	1590	1685	2800	36-49
FCEX-1600C	64"	1600	1750	1820	1930	3200	40-56

Note: Order codes available on request.