


DS Series



 Engineering
GREAT Solutions

**Concentric Rubber
Lined Valves**

Concentric Rubber Lined Valves

Our DS Series valves are specified worldwide for their unique sealing performance delivered by their robust rubber seat design and high quality construction materials. They are manufactured using stable and durable components to ensure long-term reliability.

Key features

- > Fully rated up to 20 bar
- > Replaceable rubber liner
- > Complete double seal protects stem from media
- > Self-centering disc (up to 24")
- > No pins or keys to connect disc (up to 24")
- > Self-lubricating and resistant alloy bushings
- > Wide range of materials available

Benefits

The DS Series design is based upon the centered shaft concept to allow easy installation and maintenance. These features make the DS Series ideally suitable for small and large size valves where the cost of ownership needs to be kept to a minimum.

- > Heavy duty service
- > Easy installation and maintenance
- > One-piece cast or fabricated design
 - Rigid and heavy construction
 - Leak free performance
- > Up to 60" replaceable rubber seat
 - Critical components completely sealed from the media
 - Unsurpassed stability and durability
 - Zero chance of detachment, tearing or other inherent 'soft boot' seat failure
- > Hydro-dynamically efficient disc profile
 - Improves flow capability
 - Reduces pressure drop and dynamic torque

- > Customized specifications

Efficient leak-free construction



Disc and shaft connection up to ND 24"



Disc and shaft connection over ND 24"



Easy to install and maintain

Typical applications

- > Utilities
- > Air
- > Water
- > Fire fighting
- > Sea water
- > Slurry brine
- > Hydrocarbons
- > Sewer
- > Geothermal water
- > Demineralization of water



IMI Orton engineered solutions draw on the technological and financial backing of IMI plc which operates in over 50 countries.

Product specification and dimensions

Materials

Ductile iron
Carbon steel
Stainless steel
Aluminium bronze
High alloy titanium
Nickel Alloy Steel

Applicable standards

Design: ANSI B16.34/ ASME VIII/ API 609/
UL1091
Face to face: API 609/ ISO 5752
Double Flanged Connection: B16.5/
B16.47/ ASME VIII/ SIN/ ISO/ AWWA
Testing: API 598

Production range

Nominal diameter 1-1/2" up to 80"

Rating

NP 6-10 – 16
ANSI Cl.150

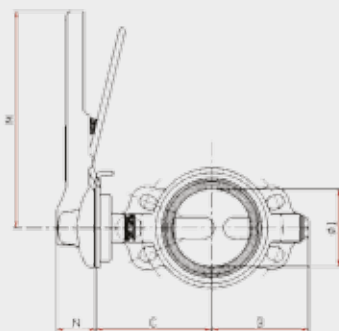
Temperature limits

From -20°C (-4°F) up to +150°C (+302°F)

Pressure limits

300 psi in accordance with UL 1091

Full valve selection
available on our website
www.IMI-Critical.com



DS Wafer Type Valve with Lever Operator dimensions

SI Units

Nominal Diameter		A	B	C	Øi	N	M	Ø Y	Weight (Kg)
(in)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Wafer
11/2	40	33	79	98	46	36	225	-	3
2	50	44	88	109	56	36	225	-	4
21/2	65	47	95	122	71	36	225	-	4
3	80	46	111	131	83	36	225	-	5
4	100	53	120	152	104	36	225	-	5
5	125	57	137	177	128	36	280	-	9
6	150	57	151	193	152	36	280	-	10
8	200	60	189	225	198	36	280	-	11
10	250	69	226	274	246	51	305	-	22
12	300	79	258	297	298	51	305	-	33

Other body styles available

Double flanged ("U" section)
Wafer
Lugged

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