

DISCOM WATER COOLED VALVE SHOCK PROOF (WCVSP)



discom

EXHAUST TECHNOLOGY

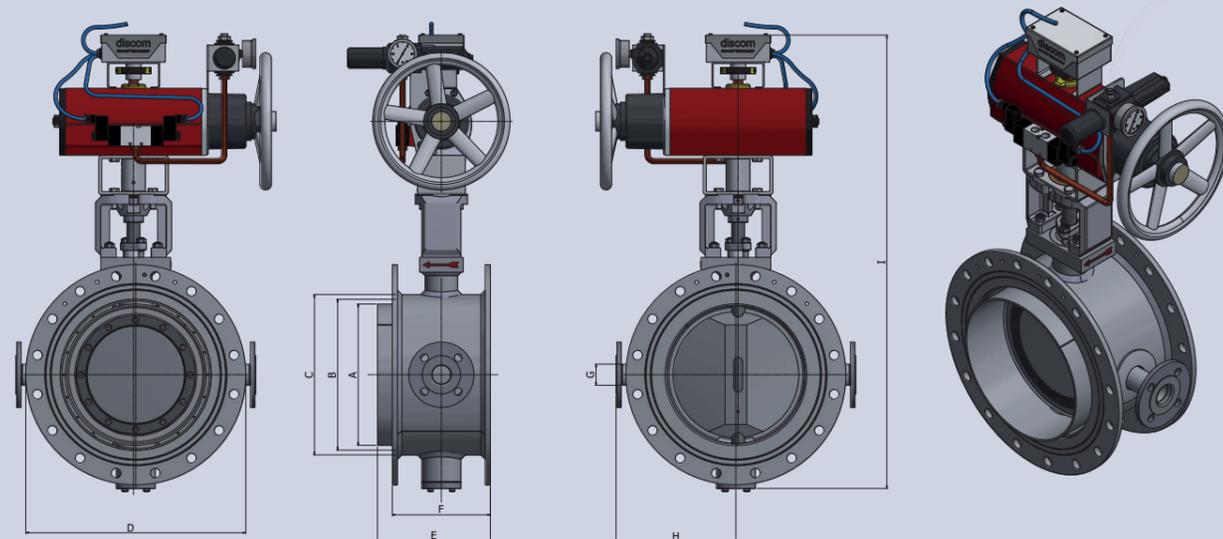
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The Discom Water Cooled Valve Shock Proof (WCVSP)

The Discom Water Cooled Valve Shock Proof (WCVSP) is an eccentric butterfly exhaust gas valve derived from a combination of demands from navy shipyards and vessels.

Its innovative design combines the unique safety features water tightness, shock resistance and water cooling, enabling hot exhaust gas to be evacuated through the ship's hull side.

This High End valve is the result of Dutch ingenuity combined with Discom B.V.'s manufacturing excellence and many decades of experience in the delivery of exhaust systems all over the world.



Valve type	A	B	C	D	E	F	G	H	I
WCVSP-NB150	ø168.3	ø190.3	ø214.3	ø315	211	168	ø42.4	185	TBD
WCVSP-NB200	ø219.1	ø241.1	ø263.1	ø395	211	172	ø42.4	215	TBD
WCVSP-NB250	ø273	ø295	ø317	ø445	259	216	ø48.3	250	TBD
WCVSP-NB300	ø323.9	ø345.9	ø367.9	ø505	259	225	ø48.3	275	TBD
WCVSP-NB350	ø355.6	ø381.6	ø407.6	ø565	300	244	ø60.3	300	TBD
WCVSP-NB400	ø406.4	ø432.4	ø458.4	ø615	300	263	ø76.1	335	TBD
WCVSP-NB450	ø457.2	ø483.2	ø519.2	ø670	365	282	ø76.1-40°	370	TBD
WCVSP-NB500	ø508	ø550	ø592	ø730	365	300	ø76.1-40°	405	TBD
WCVSP-NB600	ø609.6	ø651.6	ø693.6	ø860	400	319	ø76.1-40°	450	TBD

The valves show the following unique design features:

- 100% leak tight and tested according EN 12266-1 Rate A.
- Shock proof up to 500g. Tested at TNO shock facility.
- Cooling of both the valve structure and the exhaust gas using either cooling water of the engine or a separate pump.
- Enable a hot gas discharge overboard without affecting the hull structure.
- Preventing the hull from overheating when hot exhaust gas is flowing through the exhaust system.
- Prevention of contamination of the hull by creating a water film between the exhaust gas and the hull.
- Discharge of the cooling water of the engine in a beneficial way.
- Low water pressure consuming design with little impact on the engine water pump.
- Universal port and starboard execution by interchangeable water connections.
- Due to its unique design the valve can be operated up to 550°C.
- Composed of high grade sea water resistant stainless steel.
- Long drive train supports to protect the drive when running in hot condition.
- Pneumatically or electrically controlled with fast opening and closing times.
- Remote override for emergency situations.
- Both fresh and salt water versions available.
- During approval testing on pressure and leakage/tightness, witnessing is possible.
- Material certificates available.



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