Water-Cooled Hot Blast Valve DN500-1800

This water-cooled hot blast valve is suitable for large and middle-sized hot blast furnace systems. It functions as a high-temperature hot blast valve, back-draft valve, and hot blast-exhausting valve.

Product Overview

High-Temperature Hot Blast Valve System

This specialized water-cooled hot blast valve is engineered for demanding industrial environments, particularly within large and medium-sized hot blast furnace systems. It provides robust performance in critical roles such as high-temperature hot blast, back-draft, and exhaust control. With a focus on thermal management, the integrated water-cooling channel ensures reliable operation and longevity under extreme heat.

Technical Specifications

Driving Modes

- Winch driving
- Hydraulic driving
- Electric driving

Primary Materials

- Q235
- 20g
- 1Cr18Ni9Ti
- Special heat-resistant alloy steel

Size Range	DN500-1800
Model Series	QYTR43R, QYTR43fR, QYTR743R, QYTR743fR, QYTR943R, QYTR943fR, QYTR9T43R

Cooling System

Water Pressure

0.25 MPa	0.5 MPa
Minimum Pressure	Maximum Pressure

Operational Guidelines

Requirement	Detail
Cooling Medium	Industrial cycled water
Temperature Delta	Inlet/Outlet difference below 12°C
Safety	Prevention of frostbite required when idle
Monitoring	Water shortage/cutoff strictly prohibited

Design Features

Sealing and Design

- Floating seal device between stem and bonnet
- Metal seal ring with high-temperature resistant glue between body and bonnet
- Pressure-differential assisted sealing