



# Into The World

# DH CONTROLS





## Representative Greeting

I sincerely appreciate your attention.

We are the company to handle shipbuilding equipment such as Screw down valve, Transmitter, Special valve and onshore plant, since 2009, have sustained the highest development based on the strategic partnership with the local top shipbuilding companies.

We do our best to make a drastic investment on sustainable R&D(Research & Development) in order to hold the best technology and quality competitiveness for customers' satisfaction and seek for expanding our business abroad.

DH Controls will go up to the top company in the world by diversifying business with our cutting-edge technology and quality.

Thanks and best regards.

## History

- 2016** 06 Registered as a cooperative firm of Hyundai Heavy Industries.  
07 Extended DH new factory and moving into a new building.
- 2015** 01 Registered as cooperative firm for special ships of Hanjin Heavy Industries.  
03 Registered as cooperative firm of STX Offshore & Shipbuilding.  
05 Registered as cooperative firm of Samsung Heavy Industries.
- 2014** 04 Registered as cooperative firm with Daehan Shipbuilding.  
06 Extended 2nd Factory.  
07 Registered as cooperative firm of Hyundai Mipo Dockyard.  
08 Registered as cooperative firm of Daewoo Shipbuilding & Marine Engineering.  
09 Registered patent for 3-direction valve and screw-down butterfly valve.  
09 Registered as cooperative firm of Dae Sun Shipbuilding & Engineering.  
11 Registered as cooperative firm for merchant ships of Hanjin Heavy Industries.
- 2013** 01 Established an annex research institute.  
01 Registered Samsung Heavy Industries Offshore and Joined JAM project.  
08 Registered STX Offshore and Joined in GAZA project.  
08 Registered as cooperative firm of SPP Shipbuilding.  
09 Registered patent for valve and remote position detector.  
10 Registered as cooperative firm of DSEC.  
10 Be awarded a prize from Gyeongnam Regional Small & Medium Business Administration.
- 2012** 01 Acquired ISO 9001, ISO 1400.  
08 Acquired the Venture Company Certification.  
12 Designated as a promising small & medium exporter.  
12 Developed Special valve.
- 2011** 06 Developed Transmitter.  
06 Developed Screw Down valve.
- 2009** 05 Established company.

## OFFICE & FACTORY



### DH Controls 1<sup>st</sup> Factory

- **Adress** : 27, Gasulsandannam-ro, Daesan-myeon, Uichang-gu, Changwon-si, Gyeongsangnam-do, Korea
- **Department** : Sales / R&D / Q.C. / Purchase / Executive / Assembly

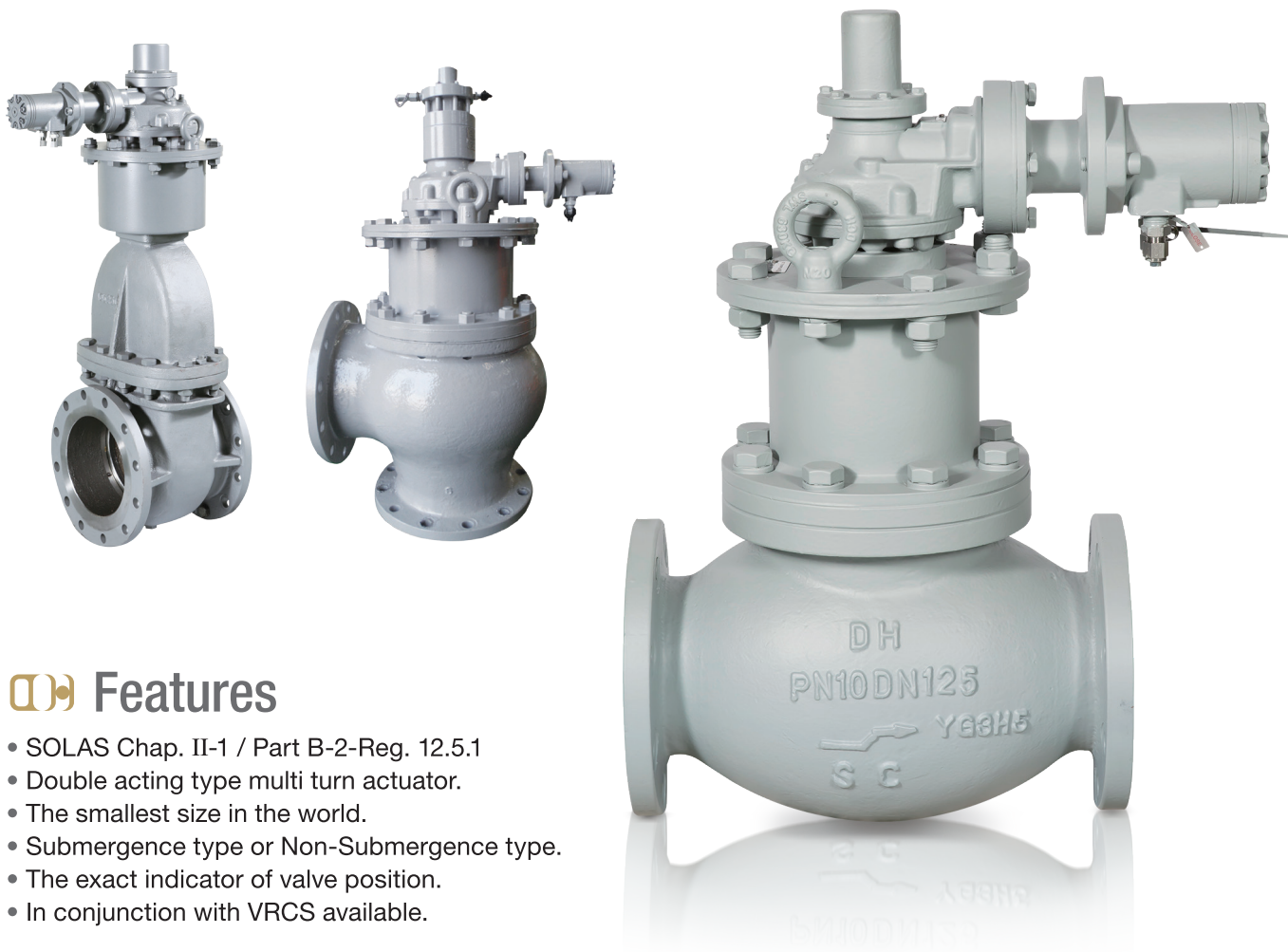


### DH Controls 2<sup>nd</sup> Factory

- **Adress** : 35-15, Junam-ro, 327 beon-gil, Daesan-myeon, Uichang-gu, Changwon-si, Gyeongsangnam-do, Korea
- **Department** : Metal Processing

# SCREW DOWN VALVE CONTROL SYSTEM

Hydraulic Actuator



## Features

- SOLAS Chap. II-1 / Part B-2-Reg. 12.5.1
- Double acting type multi turn actuator.
- The smallest size in the world.
- Submergence type or Non-Submergence type.
- The exact indicator of valve position.
- In conjunction with VRCS available.

## Specifications

MODEL		HGT-MR	HGL-MR	HAG-MR
Operating Fluid		Mineral Oil (ISO VG15 ~ 32)		
Temperature Range		-20°C ~ 80°C		
Actuator Type		Multi Turn Hydraulic		
Operating Pressure (max.)		120bar		
Working Pressure	Open	90bar		
	Close	80bar		
Applicable Valve Type		Gate	Globe	Angle
Size		50A~750A	50A~500A	50A~500A
Accessory (option)		Local Position Indicator		

\* In conjunction with VRCS 6L/min more than required

# SCREW DOWN VALVE CONTROL SYSTEM

Manual Hydraulic Power Pack



## Features

- SOLAS Chap. II-1 / Part B-2-Reg. 12.5.1
- Available in double acting type multi turn actuator.
- Making available a variety of forms.
- The exact indicator of valve position.
- In conjunction with VRCS available.

## Specifications

MODEL	MHPP-M	MHPP-V	MHPP-L	MHPP-BX
Operating Fluid	Mineral Oil (ISO VG15 ~ 32)			
Temperature Range	-20°C ~ 80°C			
Hyd. Power Pack Type	Deck Stand	Remote (VRC)	Limit Switch	Box
Operating Pressure (max.)	120bar			
Working Pressure	Open	90bar		
	Close	80bar		
Applicable Hyd. Actuator	Multi Turn Hydraulic Motor			
Accessory (option)	Relief Valve, Emergency Hand pump, Self-seal coupling			
Position Indicating device	Flow indicating		Limit Switch indicating	Flow indicating

# SCREW DOWN VALVE CONTROL SYSTEM

## Valve Position Detecting Box



## Features

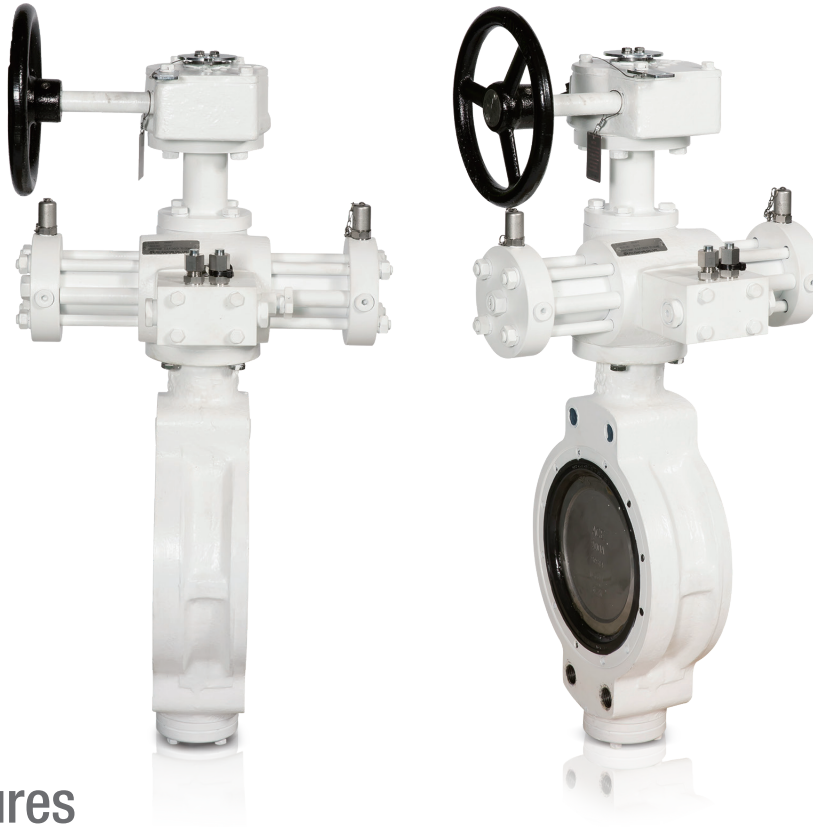
- SOLAS Chap. II-1 / Part B-2-Reg. 12.5.1
- Available in double acting type multi turn actuator.
- All VRCS makers available.
- Fault alarm indicating in the abnormal work.
- The exact indicator of valve position.

## Specifications

MODEL	VPDB
Operating Fluid	Mineral Oil (ISO VG15 ~ 32)
Temperature Range	-20°C ~ 80°C
Operating Pressure (max.)	120bar
Power Supply	110/220V AC, 50/60Hz
Output Signal	Dry Contact (Open/Close)
	Indicating Lamp (Power/Open/Close)
	Fault Alarm
Applicable Power Pack	VRCS, HPU

# HYDRAULIC CONTROL SYSTEM

## Rotary Actuator



## Features

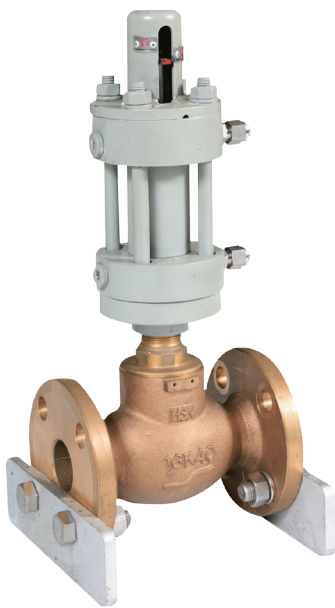
- Overhaul and assembly is easy.
- Watertight structure design.
- It is possible to adjust the clearance angle.
- The emergency handle can be attached. (The handle is an option.)

## Specifications

MODEL		HAR
Operating Fluid		Mineral Oil (ISO VG15 ~ 32)
Temperature Range		-20°C ~ 80°C
Actuator Type		Rotary Cylinder
Operating Pressure (max.)		120bar
Working Pressure	Open	90bar
	Close	80bar
Applicable Valve Type		Butterfly, Ball
Applicable Manual Hydraulic Power Unit		Solo Type, Multi Type
Size		50A ~ 800A
Accessory (option)		Lock Valve, Emergency Hand pmup, Manual Handle + Bypass Valve, Limit Switch, Self-seal coupling

# HYDRAULIC CONTROL SYSTEM

## Linear Actuator



## Features

- Applied to a variety of possible valve stroke.
- Overhaul and assembly is easy.
- Watertight structure design.
- The emergency handle can be attached. (The handle is an option.)
- Can be installed in both horizontal and vertical position.

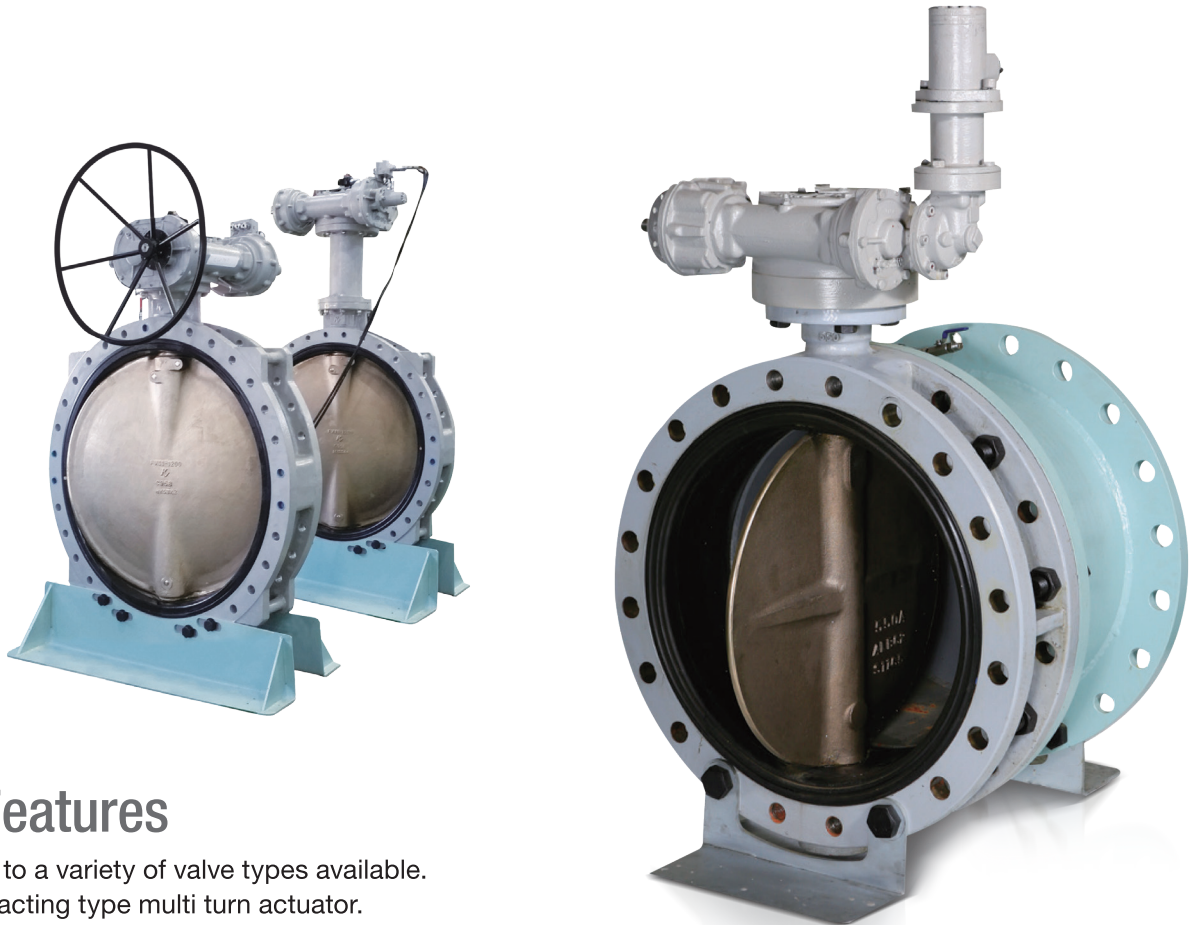
## Specifications

MODEL		HAL
Operating Fluid		Mineral Oil (ISO VG15 ~ 32)
Temperature Range		-20°C ~ 80°C
Actuator Type		Linear Cylinder
Operating Pressure (max.)		120bar
Working Pressure	Open	90bar
	Close	80bar
Applicable Valve Type		Globe, Angle, Gate, Surface, Storm
Applicable Manual Hydraulic Power Unit		Solo Type, Multi Type
Size		50A ~ 750A
Accessory (option)		Lock Valve, Emergency Hand Pump, Manual Handle + Bypass Valve, Limit Switch, Self-seal coupling



# HYDRAULIC CONTROL SYSTEM

## Multiturn Actuator



### Features

- Applied to a variety of valve types available.
- Double acting type multi turn actuator.
- The smallest size in the world.
- Applied to large valves available.
- The exact indicator of valve position.

### Specifications

MODEL		HBT-MH	HGT-MH	HGL-MH	HAG-MH
Operating Fluid		Mineral Oil (ISO VG15 ~ 32)			
Temperature Range		-20°C ~ 80°C			
Actuator Type		Multi Turn Hydraulic Motor			
Operating Pressure (max.)		120bar			
Working Pressure	Open	90bar			
	Close	80bar			
Applicable Valve Type		Butterfly	Gate	Globe	Angle
Applicable Hyd. Power Unit		Manual Handpump Type, VRCS HPU Type			
Size		50A ~ 2200A		50A ~ 750A	
Accessory (option)		Relief Valve, Manual Handle + Bypass Valve + Relief Valve, Limit Switch			

# HYDRAULIC CONTROL SYSTEM

## Transmitter - Solo Type



### Features

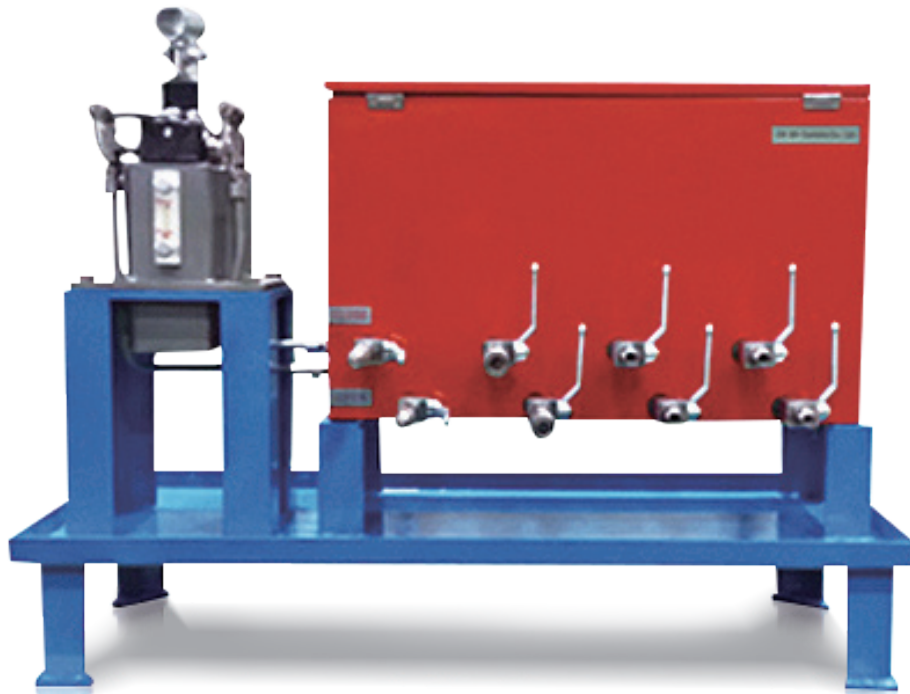
- The installation is simple.
- There is no need for auxiliary power.
- It has a variety discharge capacity.
- One person can operate easily.
- The installation is possible even outside.

### Specifications

MODEL		DS
Operating Fluid		Mineral Oil (ISO VG15 ~ 32)
Temperature Range		-20°C ~ 80°C
Hyd. Power Unit Type		Manual Rotating Pump
Operating Pressure (max.)		120bar
Working Pressure	Open	90bar
	Close	80bar
Applicable Hyd. Actuator		Rotary Type, Linear Type, Multi Turn Hydraulic Motor Type
Accessory (option)		Check Valve, Relief Valve, Self-seal coupling, Lamp Box

# HYDRAULIC CONTROL SYSTEM

## Transmitter - Multi Type



### Features

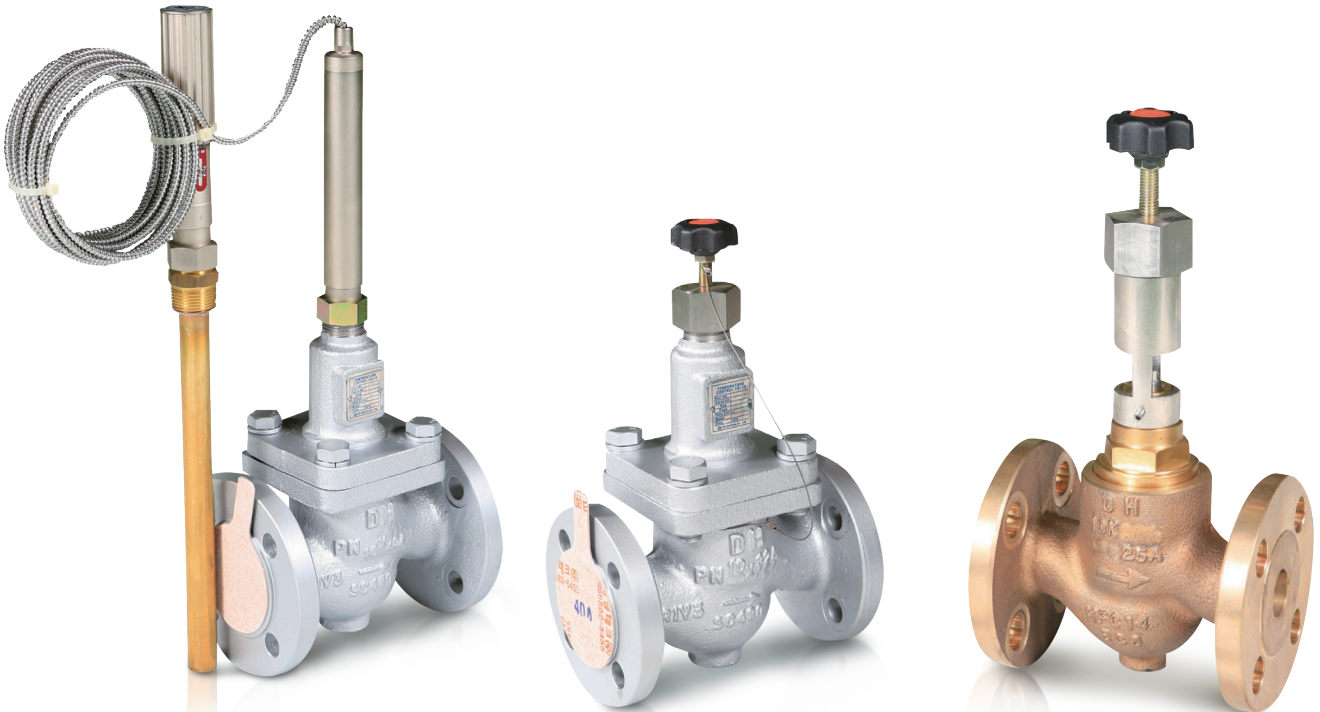
- Operate multiple valves in one place.
- Only one valve is operable at a time.
- It occupies a relatively small space.
- The exact indicator of valve position.
- This operation is possible with a relatively small force.

### Specifications

MODEL		MH-ML	MT-ML
Operating Fluid		Mineral Oil (ISO VG15 ~ 32)	
Temperature Range		-20°C ~ 80°C	
Hyd. Power Unit Type		Manual Handpump	Electric Motor
Operating Pressure (max.)		120bar	
Working Pressure	Open	90bar	
	Close	80bar	
Applicable Hyd. Actuator		Rotary Type, Linear Type, Multi Turn Hydraulic Motor Type	
Accessory (option)		Check Valve, Relief Valve, Self-seal coupling 2Set ~ 8Set	

# TEMPERATURE REGULATING VALVE

Bellows / Direct / Pilot Type



## Features

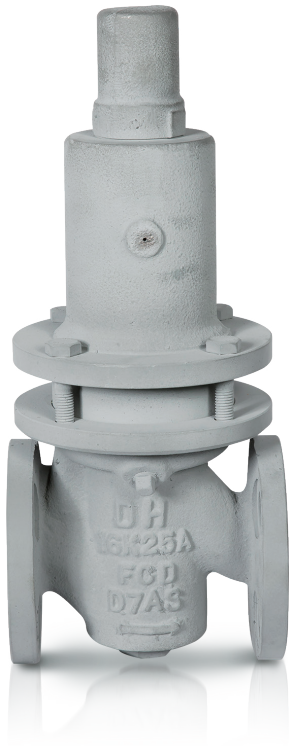
- The installation is very simple.
- Simply construction and semi-permanent with less malfunction.
- Being self-control type, so an auxiliary power is not required.
- Operating can be used under the condition of high / differential pressure.
- Pilot type has considerably large capacity.(TR-PL)
- The temperature variation is small, so it can be controlled precision.
- This is proportion control type valve by temperature change.
- The manual handle which is used for both emergency handle and bypass is provided.

## Specifications

MODEL		TR-BL	TR-DT	TR-PL
Working Fluids		Thermal Oil	Steam, Hot Water	
Temperature Range / Press		-20℃ ~ 220℃ / 20K		
Valve Type		Bellows	Direct	Pilot
Valve Size		15A ~ 50A		32A ~ 125A
End Connection		JIS / DIN / ISO / ANSI Standard		
Material	Body	Cast Steel, Ductile Cast Iron, Cast Bronze		
	Trim	Stainless Steel		
Accessory (option)		Heater Sensor (0~60, 50~110, 80~140), Y-Strainer		
Capillary Tube Length (m)		5m (Option : 3m, 7m, 8~15m)		

# PRESSURE REGULATING VALVE

Cylinder / Diaphragm / Pilot Type



## Features

- Proportion control type valve for primary pressure regulating.
- Being self-control type, so an auxiliary power is not required.
- Disassembling inner parts without disconnecting a pipe.
- Compact structure for maintenance.

## Specifications

MODEL		RG-CY	RG-DP	RG-PL
Working Fluids		Air, Water, Liquid, Oil		
Temperature Range / Press		-20°C ~ 150°C / 20K		
Valve Type		Cylinder	Diaphragm	Pilot
Valve Size		15A ~ 100A	15A ~ 100A	40A ~ 200A
End Connection		JIS / DIN / ISO / ANSI Standard		
Material	Body	Cast Steel, Ductile Cast Iron, Cast Bronze		
	Trim	Stainless Steel		
Accessory		Manual Handle, Glycerin Seal Port, Pressure gauge, Oil Separator, Y-Strainer		

# PRESSURE REDUCING VALVE

Cylinder / Diaphragm / Pilot / Cylinder Handle / Diaphragm Handle Type



## Features

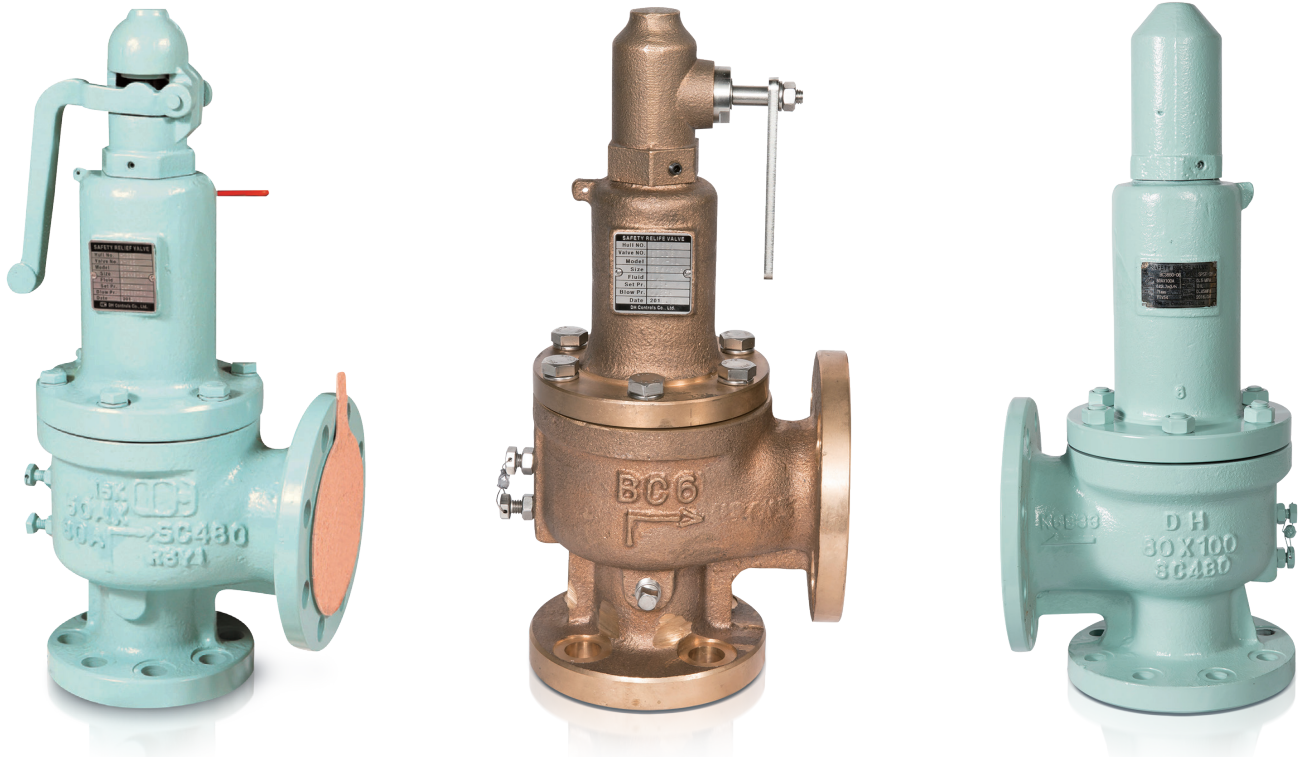
- Proportion control type valve for secondary pressure regulating.
- Being self-control type, so an auxiliary power is not required.
- Disassembling inner parts without disconnecting a pipe.
- Compact structure for maintenance.
- Large capacity as pilot type design.

## Specifications

MODEL		RD-CY	RD-DP	RD-PL	RD-CH	RD-DH
Working Fluids		Air, Gas, Liquid, Vater		Steam	Air	Air
Temperature Range / Press		-20°C ~ 150°C / 20K		220°C / 20K	-20°C ~ 150°C / 30K	-20°C ~ 150°C / 30K
Valve Type		Cylinder	Diaphragm	Pilot	Cylinder Handle	Diaphragm Handle
Valve Size		15A ~ 100A	15A ~ 100A	15A ~ 150A	15A~50A	15A~50A
End Connection		JIS / DIN / ISO / ANSI Standard				
Material	Body	Cast Steel, Ductile Cast Iron, Cast Bronze				
	Trim	Stainless Steel				
Accessory		Manual handle, Glycerin Seal Port, Y-Strainer				

# SAFETY RELIEF VALVE

Full Bore / Low Lift / High Lift Type



## Features

- Simple design and excellent seat tightness.
- Rapid opening action at over-set pressure.
- Various caps or lever as airtight or emergency operating.
- Compact structure for maintenance.

## Specifications

MODEL		SV-FB	SV-LF	SV-HF
Working Fluids		Steam, Air, Water, Liquid		
Temperature Range / Press		-20°C ~ 220°C/30K		
Valve Type		Full Bore	Low Lift	High Lift
Cap / Lever type		Close Cap, Close Lever, Open Lever		
Valve Size		15A ~ 200A	15A ~ 50A	
End Connection		JIS / DIN / ISO / ANSI Standard		
Material	Body	Cast Steel, Ductile Cast Iron, Cast Bronze		
	Trim	Stainless Steel		

# DIAPHRAGM VALVE

Diaphragm Valve



## Features

- Simple design and excellent seat tightness by using rubber.
- Easy installation and maintenance.
- It has a massive capacity compared to size.

## Specifications

MODEL		PV
Working Fluids		Air, Liquid, Oil, Water
Temperature Range / Press		0°C ~ 80°C / 10K
Valve Type		Flange
Valve Size		15A ~ 50A
End Connection		JIS / DIN / ISO / ANSI Standard
Material	Body	Cast Steel, Ductile Cast Iron, Stainless Steel
	Trim	Stainless Steel



# GLOBE VALVE

Globe Valve



## Features

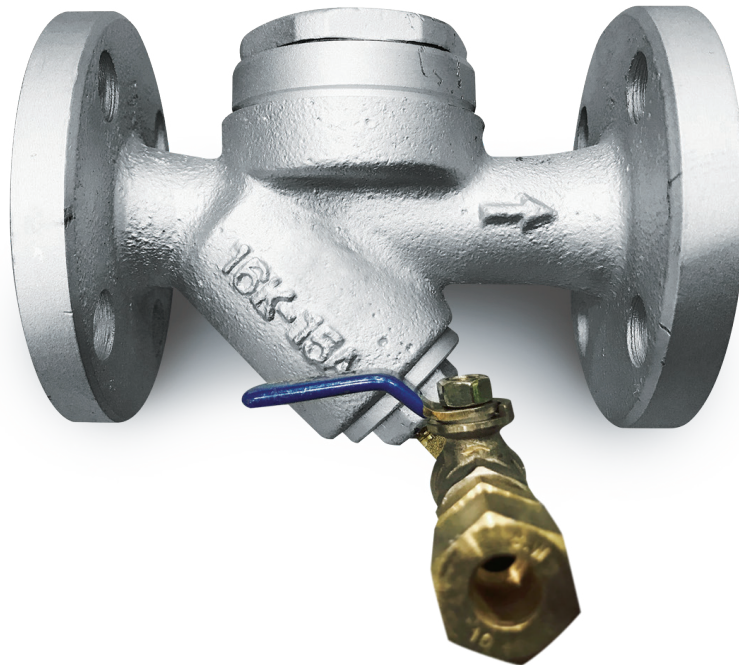
- Simple design and excellent seat tightness.
- Easy installation and maintenance.
- It was designed in accordance with JIS F7303/F7323.

## Specifications

MODEL		GL
Working Fluids		Steam, Air, Water, Liquid
Temperature Range / Press		-20°C ~ 220°C / 16K
Valve Type		Flange
Valve Size		15A ~ 50A
End Connection		JIS / DIN / ISO / ANSI Standard
Material	Body	Cast Steel, Ductile Cast Iron, Cast Bronze
	Trim	Stainless Steel

# STEAM TRAP

Disc / Ball Float Type



## Features

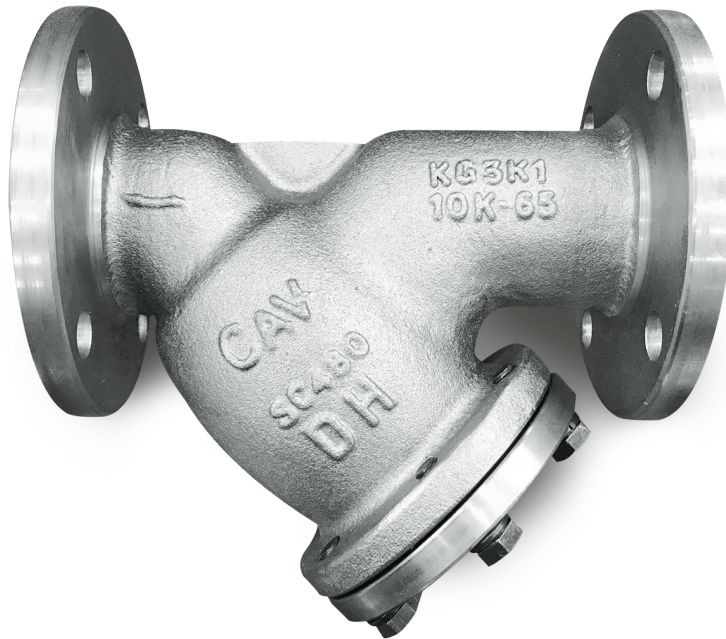
- It is effectively discharge the steam condensate in steam system.
- Excellent durability and operation by treat seat and disc with heat.
- The structure is simple and easy to repair.

## Specifications

MODEL		ST-DC	ST-BF
Working Fluids		Steam	
Temperature Range / Press		0°C ~ 220°C / 20K	
Valve Type		Disc	Ball float
Valve Size		15A ~ 50A	
End Connection		JIS / DIN / ISO / ANSI Standard	
Material	Body	Cast Steel, Ductile Cast Iron, Cast Bronze, Stainless Steel	
Accessory		Ball Valve	

# Y-STRAINER

Y-Strainer



## Features

- It prevents various valve faults in advance by removing impurities.
- The screen was designed a large size by considering a decline in flow rate by clogging of impurities.
- The structure is simple and easy to repair.

## Specifications

MODEL		ST-Y
Working Fluids		Oil, Water, Air, Steam
Temperature Range / Press		0°C ~220°C / 40K
Valve Size		15A ~ 300A
End Connection		JIS / DIN / ISO / ANSI Standard
Material	Body	Cast Steel, Ductile Cast Iron, Cast Bronze
	Screen	Stainless Steel
Selection of Mesh		Single Mesh / Double Mesh

# 3-WAY BALL VALVE

Soft / Screw Type



## Features

- Simple design and excellent seat tightness.
- Easy installation and maintenance.
- Flow direction changes are possible.
- Applicable to various systems according to the accessories are possible.

## Specifications

MODEL		3BA-SO	3BA-SW
Working Fluids		Air, Water, Liquid	Air, Water, Liquid
Temperature Range / Press		-20°C ~ 150°C / 16K	-20°C ~ 150°C / 16K
Valve Type		Soft	Screw
Valve Size		15A ~ 100A	3/8" ~ 2"
End Connection		JIS / DIN / ISO / ANSI Standard	
Material	Body	Cast Steel, Ductile Cast Iron, Cast Bronze, Stainless Steel	
	Trim	Stainless Steel	
Accessory		Limit Switch	

# AIR WASTE GATE VALVE

Gate Valve / Butterfly Valve Type



## Features

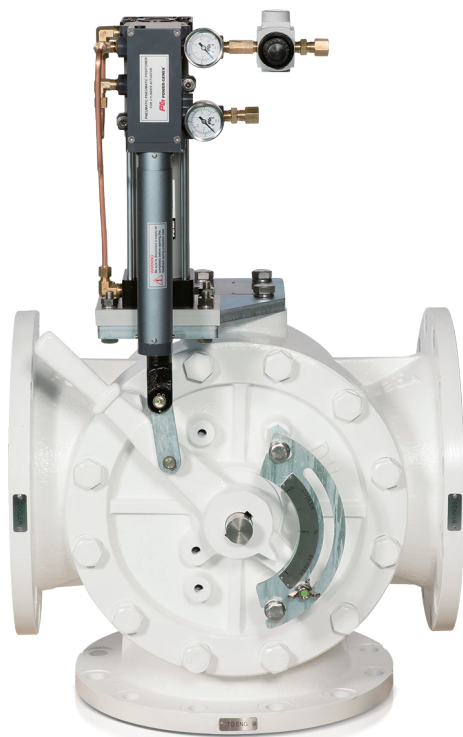
- Simple design and excellent seat tightness.
- It is silent by equipped with a silencer.
- There are Manual type and Motor type.
- Degree of valve opening can be set free.

## Specifications

MODEL		AWS-GT	AWS-BF
Working Fluids		Air, Gas	
Temperature Range / Press		-20°C ~150°C / 20 K	
Valve Type		Gate	Butterfly
Valve Size		50A	50A ~ 80A
End Connection		JIS / DIN / ISO / ANSI Standard	
Material	Body	Cast Steel, Ductile Cast Iron	
	Trim	Stainless Steel	

# 3-WAY CONTROL VALVE

Motor / Cylinder / Diaphragm Type



## Features

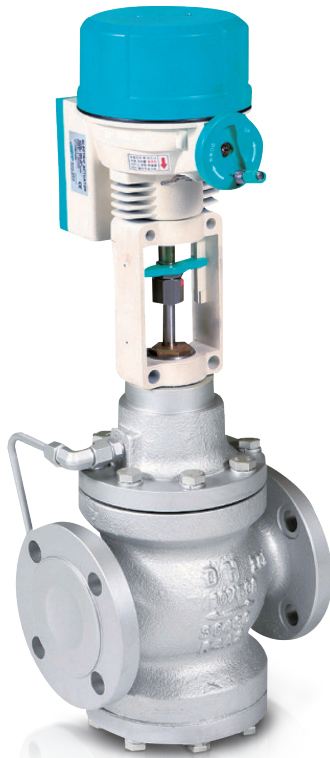
- The exact temperature control valve by controller.
- Easy installation and maintenance.
- More smooth throttling flow.
- Flow direction changes are possible.
- The emergency handle can be attached.

## Specifications

MODEL		3RT-MT	3RT-CY	3RT-DP
Working Fluids		Fresh Water, Sea Water, Oil		
Temperature Range / Press		-20°C ~ 100°C / 16K		
Valve Size		80A~ 600A		
End Connection		JIS / DIN / ISO / ANSI Standard		
Material	Body	Ductile Cast Iron, Cast Steel, Carbon Steel		
	Trim	Stainless Steel, Cast Bronze, Steel		
Flow Characteristics		Linear, On-off		
Actuator Type		Elec. Motor	Cylinder	Diaphragm
Operating Source		110/220V AC	4 Bar Air	0.2~1 Bar or 0.4~2 Bar
Accessory (option)		Controller(E/P, P/P), Sensor(Temperature), Positioner(E/P, P/P), Air Regulator		

# 2-WAY CONTROL VALVE

Diaphragm / Motor Type



## Features

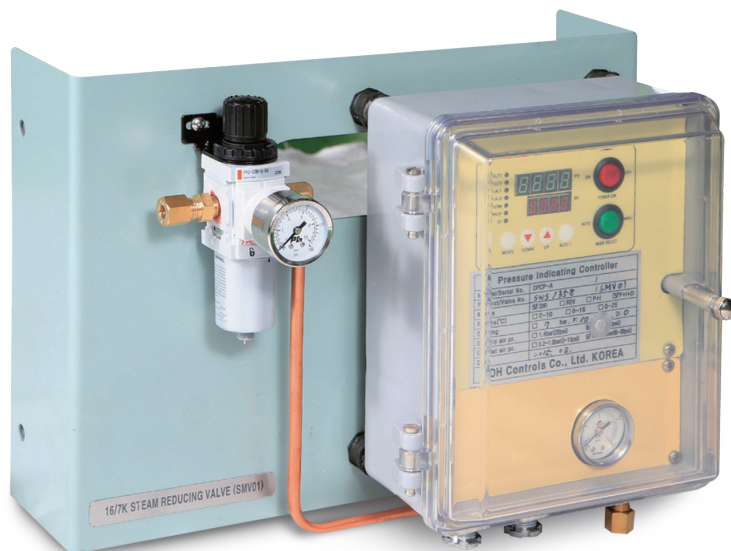
- The exact temperature, pressure, viscosity, level control is possible.
- Easy installation and maintenance.
- Precise control is possible.
- Major parts replacement is easy.
- The emergency handle can be attached.

## Specifications

MODEL		2CT-MT	2CT-DP
Working Fluids		Steam, Water, Oil	
Temperature Range / Press		-20°C ~ 220°C / 30K	
Valve Size		15A ~ 300A	
End Connection		JIS / DIN / ISO / ANSI Standard	
Material	Body	Cast Steel, Ductile Cast Iron, Cast Bronze	
	Trim	Stainless Steel	
Flow Characteristics		EQ%, Linear, Quick Opening	
Actuator Type		Elec. Motor	Diaphragm
Operating Source		110/220V AC	0.2~1 Bar or 0.4~2 Bar
Accessory (option)		Controller(E/P, P/P), Sensor(Temperature/Pressure), Positioner(E/P, P/P), Air Regulator, Solenoid valve, Y-Strainer	

# ELECTRONIC & ELECTRO-PNEUMATIC CONTROLLER

Temperature / Pressure Control



## Features

- On-off, P, PI, PID tuning functions.
- Temperature and pressure control type.
- Direct and reverse control action.
- Easy setting control mode.
- Rapid response.

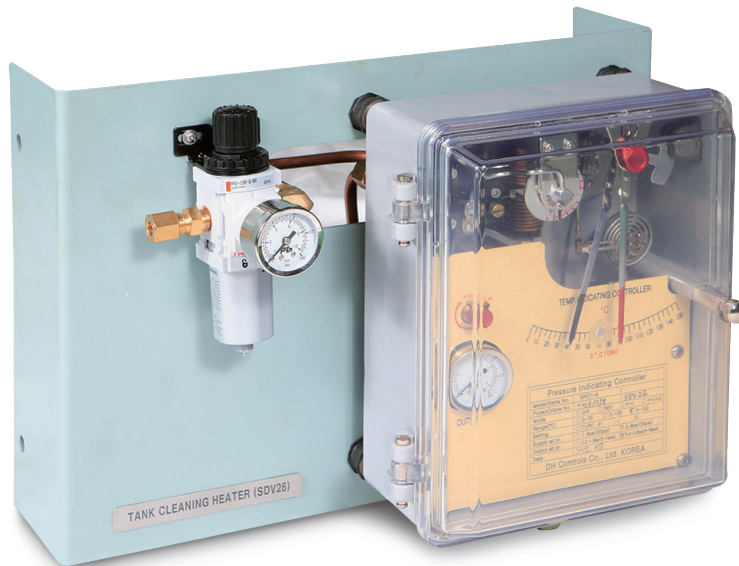
## Specifications

MODEL	EPC-TP	EPC-PR
Power Supply	110/220V AC, 50/60Hz	
Supply Air Pressure	1.4 Bar, 2.4 Bar	
Control Mode	On-off, P, PI, PID	
Control Action	Direct, Reverse	
Signal Input	RTD (Pt100Ω), 4 ~ 20 mA	
Type	Temperature	Pressure
Control Output	4 ~ 20 mA : Electronic	
	0.2~1 Bar / 0.4 ~ 2 Bar : Electro-pneumatic	
Accessory (option)	Temperature Sensor, Pressure Sensor, Air Regulator	



# PNEUMATIC CONTROLLER

Temperature / Pressure Control



## Features

- On-off, P, PI, PID tuning functions.
- Temperature and pressure control type.
- Direct and reverse control action.
- Easy setting control mode.
- Rapid response.

## Specifications

MODEL		PPC-TP	PPC-PR
Supply Air Pressure		1.4 Bar, 2.4 Bar	
Control Mode		On-off, P, PI, PID	
Control Action		Direct, Reverse	
Type		Temperature	Pressure
Signal Input	Temp.	Temp. sensor with capillary tube (5m)	
	Press.	Direct or through oil separator	
Control Output		0.2 ~ 1.0 Bar, 0.4 ~ 2.0 Bar	
Control Range	Temp.	0 ~ 70°C, 0 ~ 100°C, 0 ~ 150°C, 50 ~ 120°C, 50 ~ 150°C	
	Press.	0~5 Bar, 0~10 Bar, 0~16 Bar, 0~25 Bar	
Accessory (option)		Positioner (P/P), Air Regulator	

# ELECTRONIC CONTROLLER

Viscosity Control



## Features

- PI tuning functions.
- Temperature and viscosity control type.
- Easy setting control mode.
- Rapid response.

## Specifications

MODEL		EEC-VS
Power Supply		110/220V AC, 50/60Hz
Control Mode		P, PI, PID, On-off
Signal Input		4 ~ 20mA
Control Output	Temp.	4 ~ 20mA
	Viscosity	4 ~ 20mA
Control Range		0 ~ 25 mPas, 0 ~ 50 mPas
Temperature Range		0°C ~ 200°C
Accessory (option)		Interface Box, Viscosity Sensor

# ACCESSORY

Sensor



## Temperature Sensor

Measuring Range (max.)	0°C ~ 200°C
Output Signal	Pt100 Ω
Power Supply	DC 24V
Process Connection	PT 3/4", PT1/2"
Protection Class	IP65



## Pressure Sensor

Measuring Range (max.)	0 ~ 30 Bar
Output Signal	4 ~ 20 mA
Power Supply	DC 24 V(5~32V)
Process Connection	G1/4B
Protection Class	IP65



## Viscosity Sensor

Measuring Range (max.)	0 ~ 50 mPa.s
Temperature (max.)	180°C
Process Connection	PT 1/2"
Protection Class	IP65



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**DH CONTROLS**

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