WY401-MX pressure reducing desuperheater system is especially designed for small steam flow and gives higher controlling accuracy under minimal flow conditions. Unlike WY301-MX, WY401-MX is split PRDS, the pressure reducing and temperature reducing is carried out by PRV and desuperheater system respectively, but assemble as together. The WY401-MX PRDS is suitable for middle pressure and temperature reduction purpose, basically, its design pressure is <3.82 MPa, design temperature is <450 DegreeC, steam flow range is from 20% to 100%.

FEATURES

- Designed and manufactured for small flow purpose, ensure the best controlling performance under minimal flow range.
- The pressure reducing valve adopts with cage type and balance design, gives advantages of higher adjusting capacity and sensitivity to small flows.
- The valve cage is multi-holes designing, not only give the stable pressure reduction performance, but also give the advantage of anti-cavitation and reduce the noise level.
- For the desuperheating part, the various types are available, can be venturi design or multi-nozzle structure, offers with more selection for different working requirement and conditions.

BASIC PARAMETERS

Available inlet pressure: P1<3.82 MPa
Available inlet temperature: T1<450 DegreeC
Available Inlet flow rate: 20%~100%
Outlet pressure controlling accuracy:
P2<0.98 MPa, accuracy range: ±0.06MPa
0.98 MPa<P2<3.82 MPa, accuracy range: ±0.06MPa
P2>3.82 MPa, accuracy range: ±0.15MPa
Outlet temperature controlling accuracy: ±4 DegreeC
Noise Level: <85 dBA

RECOMMENDATIONS

Minimum distance of Temperature Sensor from the point of water injection should be 10 to 12 mtrs.
It is recommended to install a strainer of 0.8 mm mesh before water control valve
Spray water should be very clean (equivalent to boiler feedwater)
Instrument quality air is required
Inlet isolation valve is needed
Floor support to safety valve is needed

WY401-MX PRESSURE REDUCING DESUPERHEATER SYSTEM

Assemble Parts

- | Pressure reducing valve (PRV) |
- | Feed Water Control valve |
- | Globe Valve |
- | Throttle Valve |
- | Strainer |
- | Check Valve |
- | Safety System |
- | Spring Loaded Safety Valve |
- | Instrument System |
- | Pressure Gauge |
- | Thermometer |
- | Pressure Transmitter |
- | Thermocouple |
- | Others Parts |
- | Connection Pipe |
- | Counter Flange and Fasteners |

Basic Parameters

| Available inlet pressure: P1<3.82 MPa |
| Available inlet temperature: T1<450 DegreeC |
| Available inlet flow rate: 20%~100% |
| Noise Level: <85 dBA |

Design

- Pressure Class: Custom-design, acc to specifications
- Size: Outlet from DN50 to DN150 (2" to 6")
- Additional sizes on request
- Design Temperature: Maximal: 450 DegreeC
- Higher temperature on request
- Actuator: Electric, Pneumatic, Other actuators on request
- Installation: Horizontal
- Connection: Flange (ASME B16.5, GOST-12820, JIS)
- Butt weld (Acc to customer’s request)

Materials

| Valves: | SA-210 WCB, SA-217 WCF, 2520CbMo |
| Pipes: | SA-106B, SA-308 PH1, 15CrMo |

Additional Materials on request