

# QPD Series

## High Flow Duplex Lube Oil Filter



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### **Descriptions:**

Our QPD series low pressure inline duplex filters are designed in accordance with international regulations, suitable for continuous filtration of hydraulic system, lube oil console in chemical and petrochemical plants, in the oil & gas industry, and in the power plant sector.

QPD \* series duplex filters can be equipped with filter element bypass valve and filter elements with different precision for selection, making filtering more effective and reliable.

### **Features:**

- Lids are swing bolt mounted for quick access to replace cartridges
- With bypass valve With bypass valves and clogging indicators to protect the filter element during start up and over pressurization due to clogging
- Lid and housing with Lever lifting mechanism, easy for disassembly and maintenance
- With sample port on inlet & outlet, easy for check oil quality at any time.
- Unique designed transfer valve, compact construction, completely sealed, easy handle operation
- Pressure gauge, differential pressure switch available on request
- Glass fiber, synthetic fiber, kapok shaped filter paper, stainless steel mesh, copper mesh, stainless steel sintered mesh element available
- Carbon Steel Housings, SS housing available on request

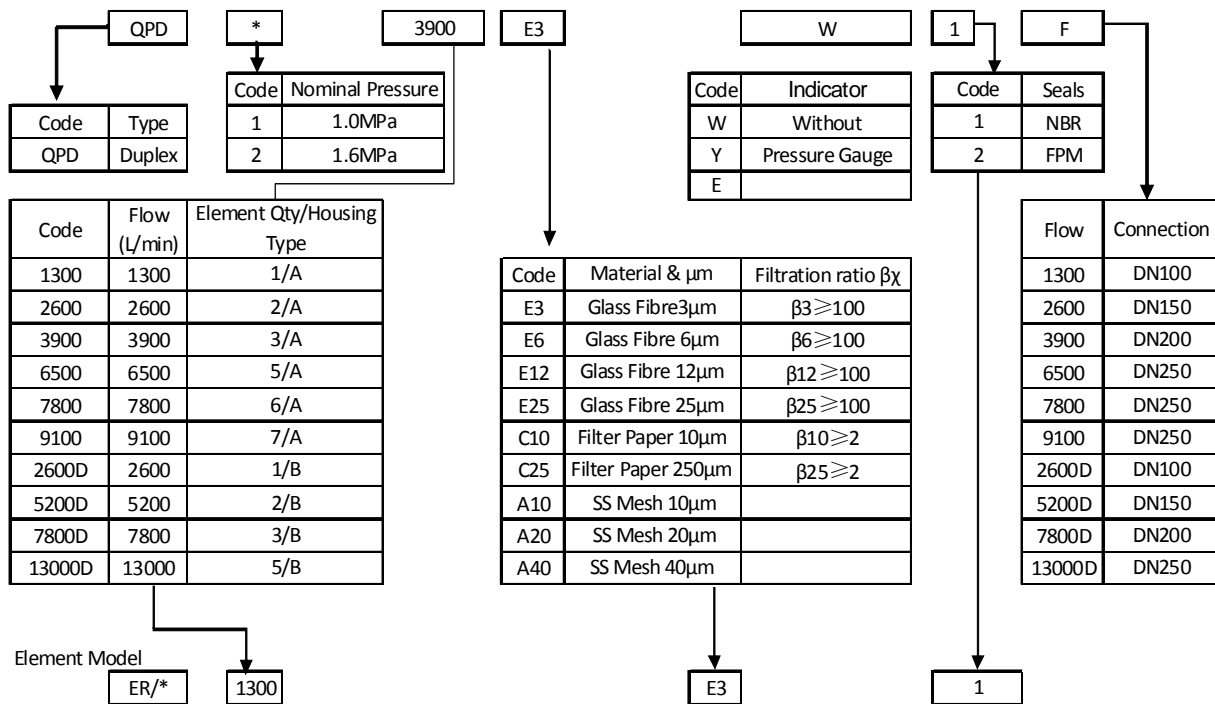
### **Technical Data:**

- Media Compatibility: Mineral oils, lubrication oils, water glycols, Phosphate ester hydraulic fluid, Water(SS Housing)
- Operating Pressure (Max): 1.6MPa
- Temperature Range: -20°C~110°C
- Bypass Valve Opening Pressure: 0.3MPa
- Indicator Setting: 0.15~0.2MPa

### **Applications:**

- Circulating Lube Oil Systems
- Power Generation Control Systems
- Steel Mill Control Systems
- Pulp & Paper Control Systems
- Test Stands
- Automotive Stamping Presses
- Offshore & Land Based Oilfield Applications

## Model Coding

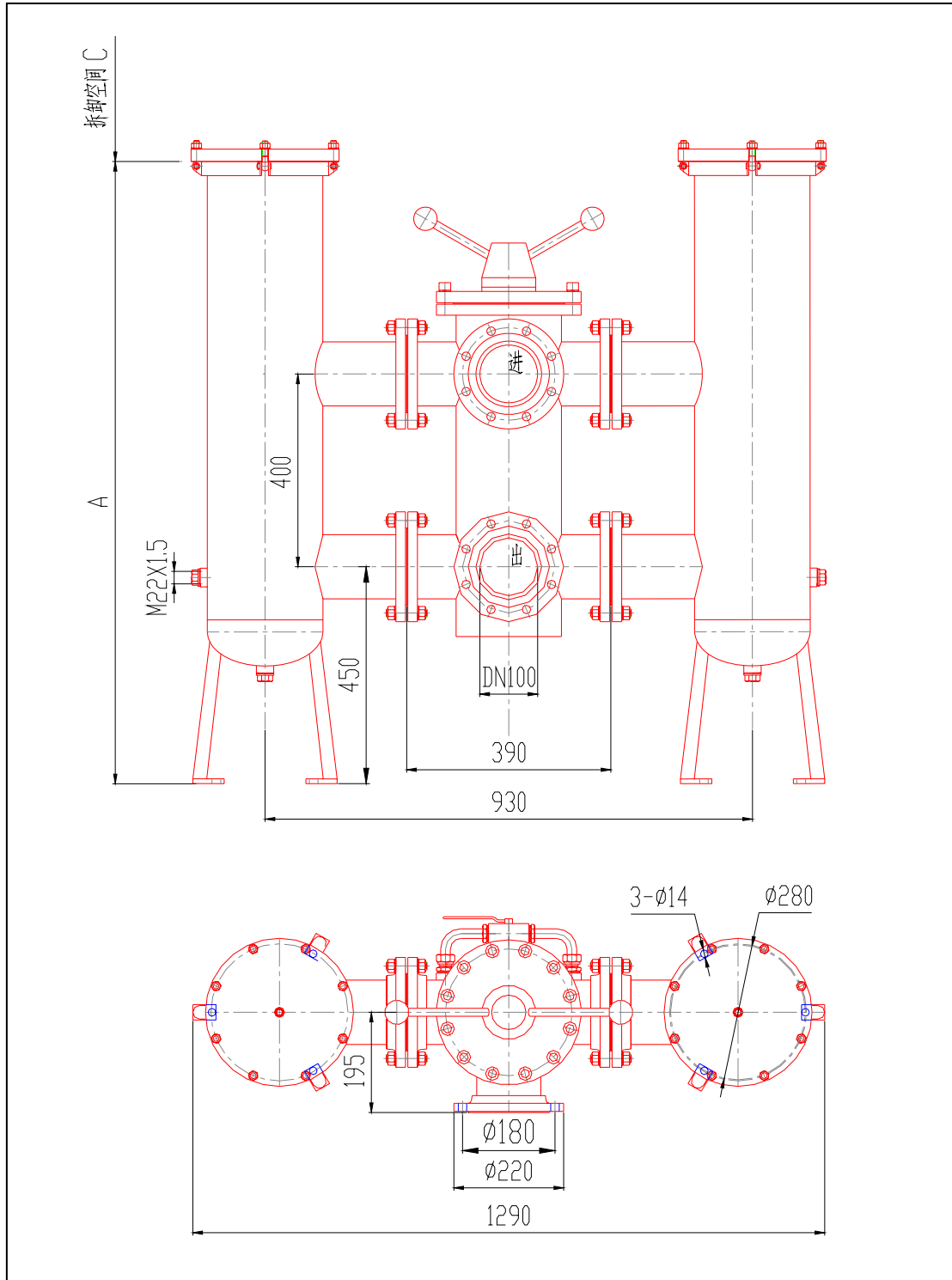


## Clean Filter Element Pressure Drop@ rated flow

(Unit:  $1 \times 10^5 \text{Pa}$  Media Data: 30cst  $0.86 \text{kg/dm}^3$ )

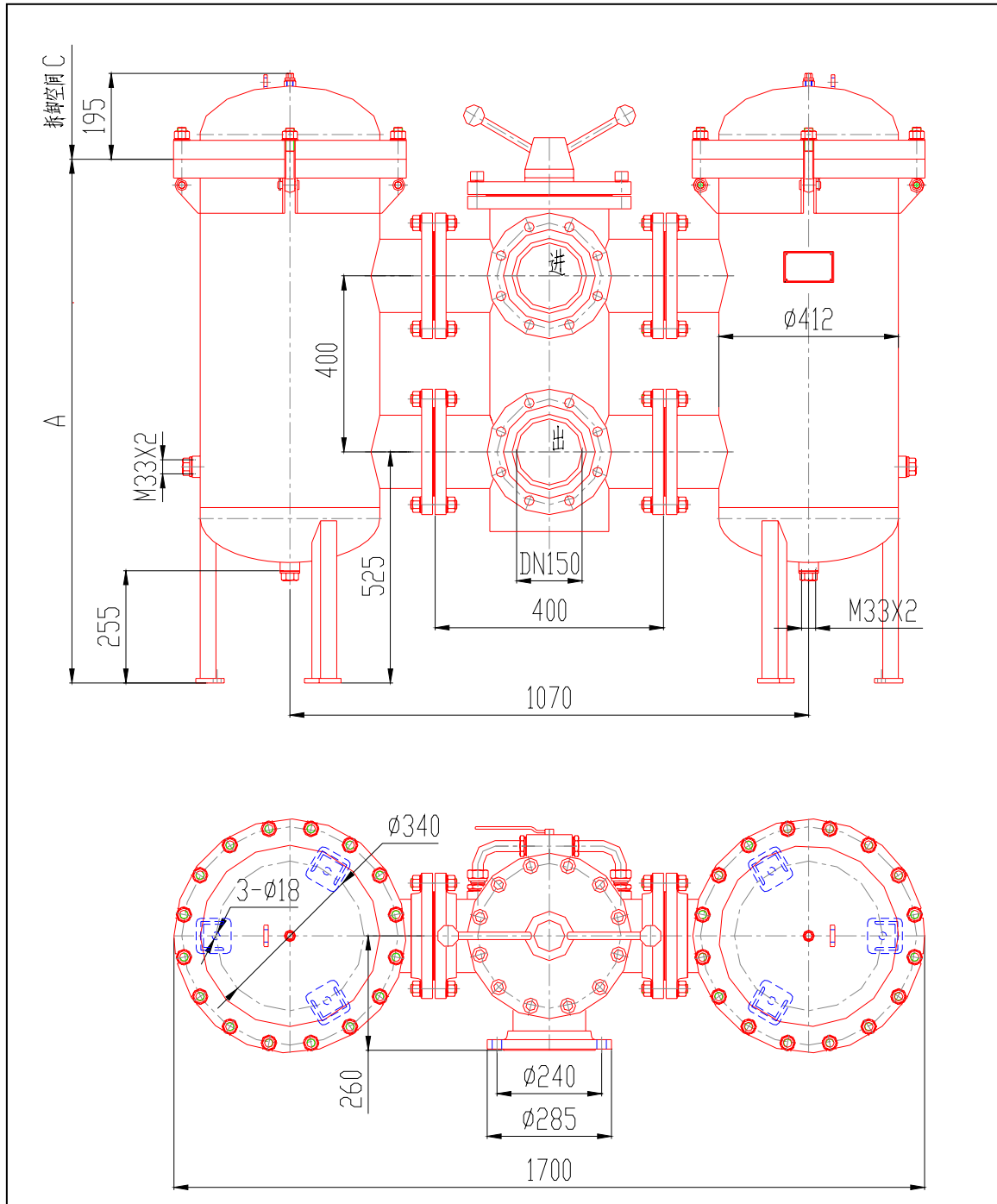
Model No.	Housing	Filter Element							
		E4	E3	E2	E1	C2	C1	A2	A1
QPD*-1300	0.13	0.73	0.56	0.48	0.36	0.29	0.22	0.61	0.49
QPD*-2600	0.12								
QPD*-3900	0.13								
QPD*-6500	0.12								
QPD*-7800	0.18								
QPD*-9100	0.26								
QPD*-2600	0.49	0.73	0.56	0.48	0.36	0.29	0.22	0.61	0.49
QPD*-5200	0.46								
QPD*-7800	0.47								
QPD*-13000	0.47								

## Dimensional Drawing



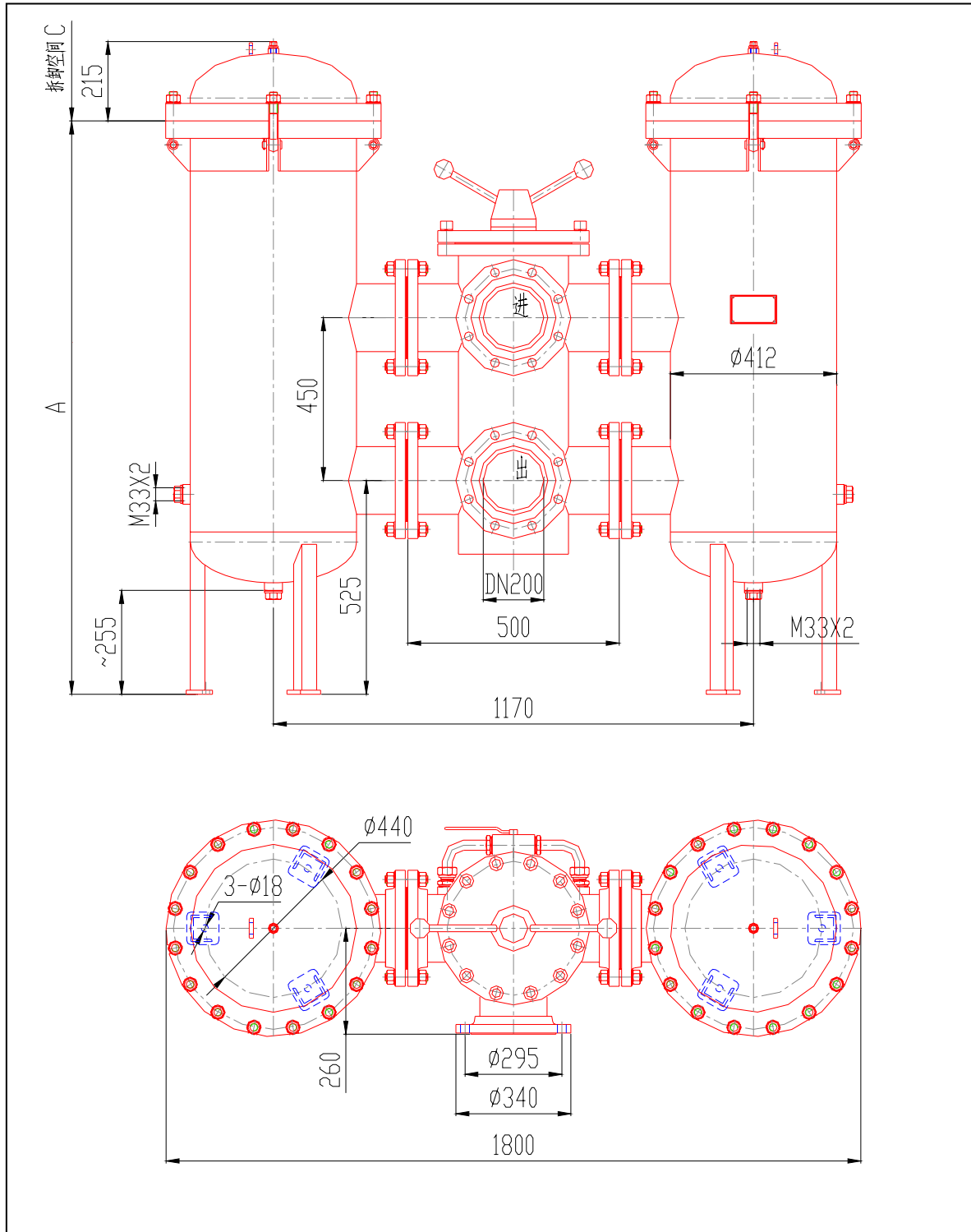
Model No.	Nominal Diameter mm	Nominal Flow L/min	A	C	Inlet/Outlet	Element Size/Qty
					Flange	
QPD1-1300	100	1300	1120	500	DN100	143×483 / 1PC
QPD1-2600D	100	2600	1520	950		143×890 / 1PC

### Dimensional Drawing



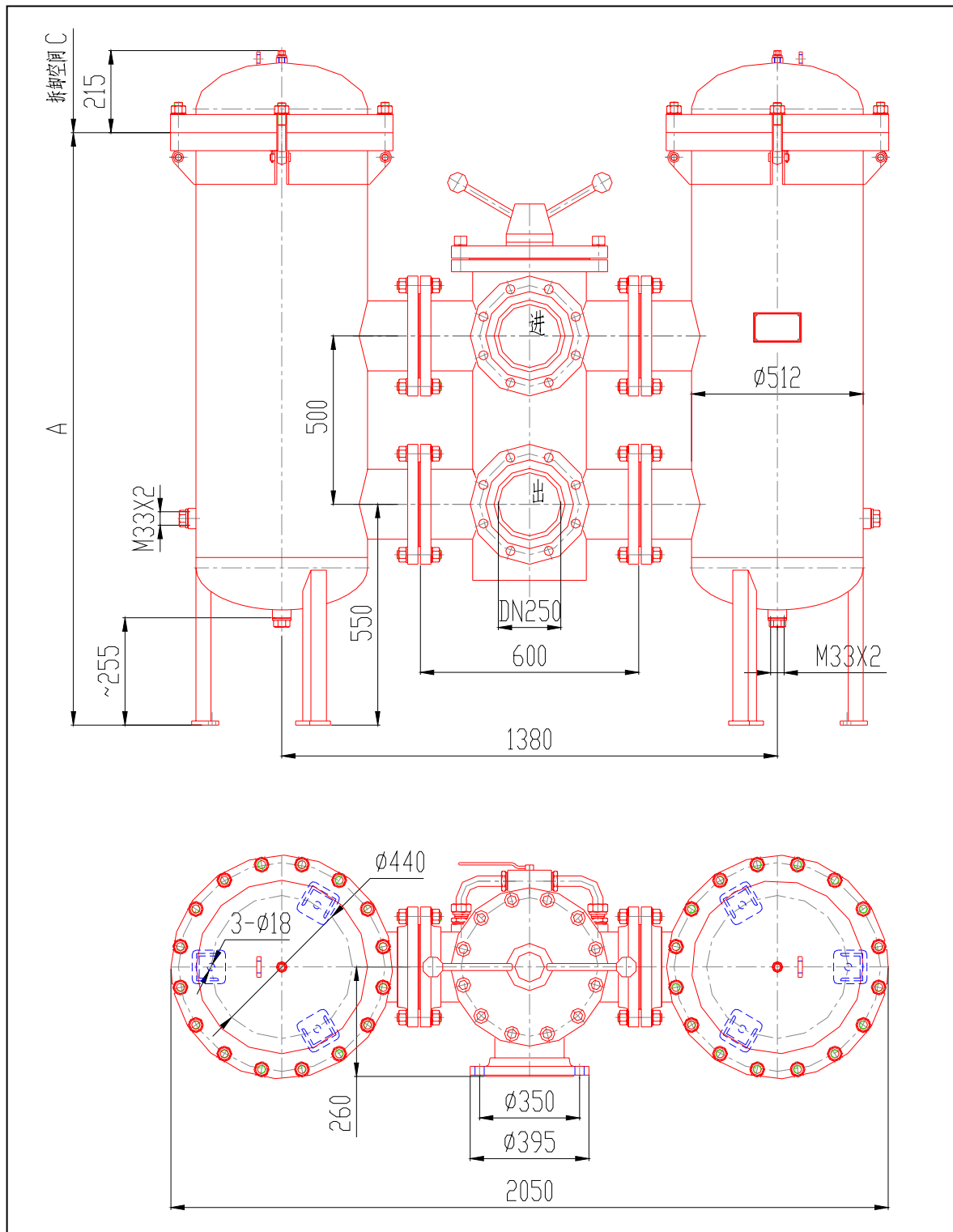
Model No.	Nominal Diameter mm	Nominal Flow L/min	A	C	Inlet/Outlet	Element Size/Qty
					Flange	
QPD1-2600	150	2600	1220	550	DN150	143×483 / 2PCS
QPD1-5200D	150	5200	1520	950		143×890 / 2PCS

## Dimensional Drawing



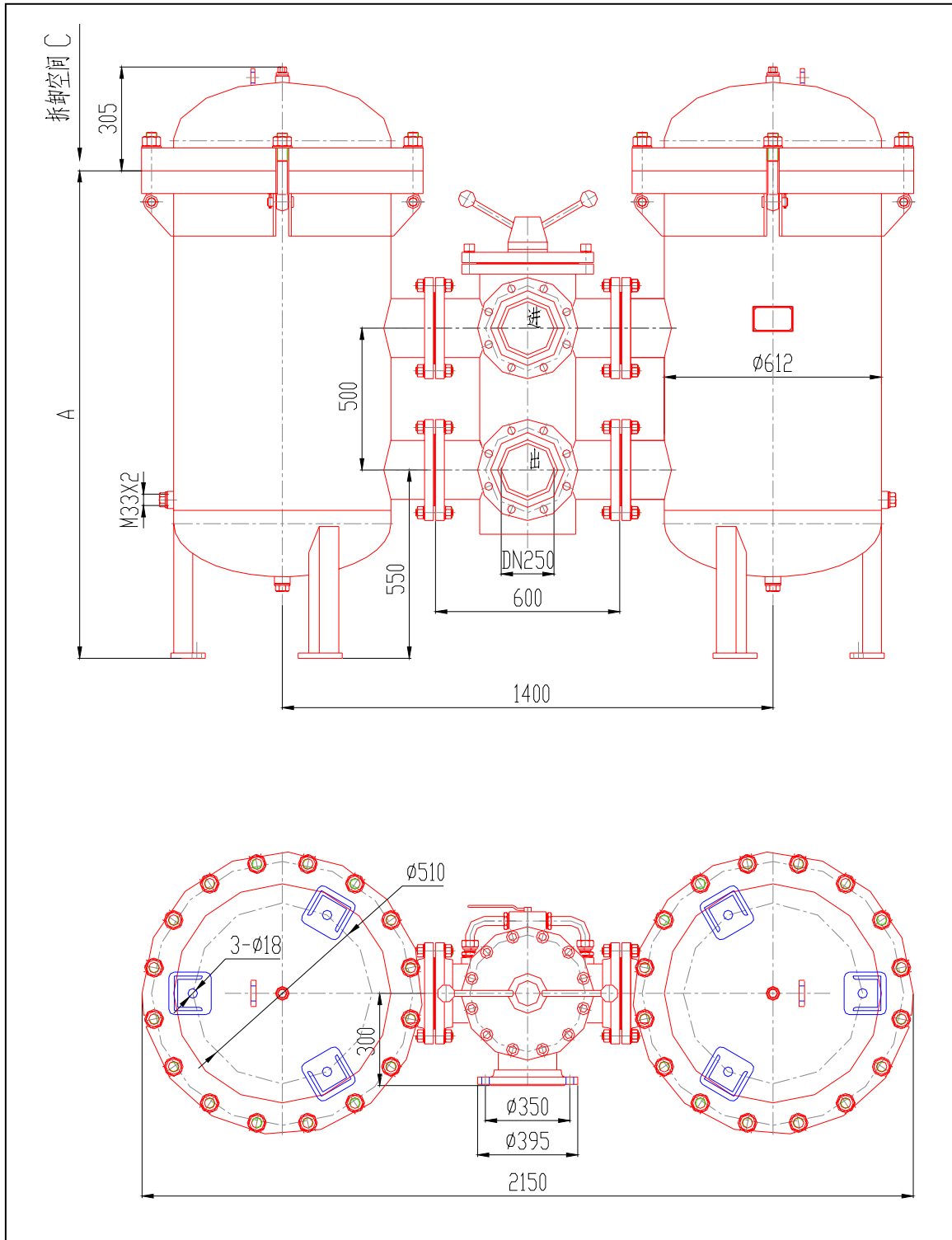
Model No.	Nominal Diameter mm	Nominal Flow L/min	A	C	Inlet/Outlet	Element Size/Qty
					Flange	
QPD1-3900	200	3900	1220	550	DN200	143×483 / 3PCS
QPD1-7800D	200	8000	1620	950		143×890 / 3PCS

## Dimensional Drawing



Model No.	Nominal Diameter mm	Nominal Flow L/min	A	C	Inlet/Outlet	Element Size/Qty
					Flange	
QPD1-6500	250	6500	1250	550	DN250	143×483 / 5PCS
QPD1-13000D	250	13000	1650	950		143×890 / 5PCS

### Dimensional Drawing



Model No.	Nominal Diameter mm	Nominal Flow L/min	A	C	Inlet/Outlet	Element Size/Qty
					Flange	
QPD1-7800	250	7800	1250	550	DN250	143×483 / 6PCS
QPD1-9100D	250	9100	1250	950		143×890 / 7PCS



## Maintenance

During operation, when the filter element is clogged and pressure reaches up to 0.15~0.2MPa, the indicator will be activated, the elements need to be replaced or cleaned respectively.

- Open the valve in pressure equalisation to let the fluid refill in the standby chamber.
- Move switching lever to opposite direction by 180° until final position on clean filter side is reached.
- Close pressure equalisation valve
- Open vent valve and depressurise system in filter out of use.
- Open the drain valve to drain the filter
- Open the lid of the discharged side of the filter housing.
- Loosen and remove the element by light swaying and pulling.
- Check filter housing inside and clean if necessary.
- Check o-ring and replace in case of damage or wear.
- Take the replacing element, make sure the serial number matches the number of the old element, and insert it into the housing
- Mount filter cover, tighten drain screw

If the filter element is not replaced in time for some reasons and the differential pressure continues to rise to 0.3MPa, the bypass valve inside the filter will automatically open to avoid secondary pollution caused by the collapse of the filter element due to the continuous increase of pressure.

**\*\* Contaminated elements have to be replaced as soon as possible if differential pressure indicator is triggered!**

\*\* Consult sales for special order requirements