

# Balanced Pressure Proportioner

## PP and PPW

(replaces datasheets 1010/19 and 23)

### General description

The balanced pressure PP proportioner induces foam concentrate into the feed water line and the proportioning rate is site adjustable, though initially factory set during manufacture.

### Application description - PP

This type of proportioner is used in foam pump systems. The PP series is designed for monitor and deluge systems.

### Product features

- Easy adjustable integrated foam regulating nozzle
- Accurate proportioning over the range
- Maintenance free construction
- Compact design
- Water connection wafer type
- Foam connection flanged or screw threaded
- Made of high grade corrosion resistant bronze and stainless steel

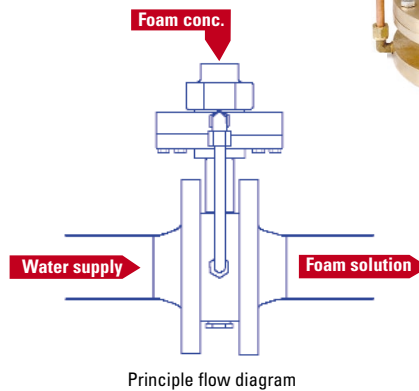
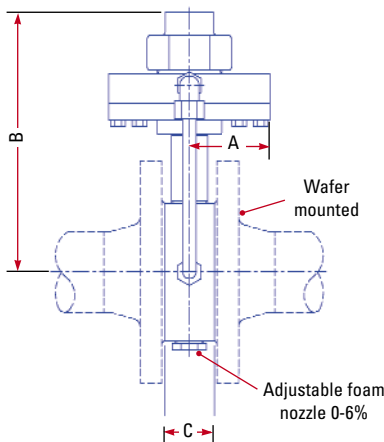


PP-80/20



PP-100/50

PP-50 PP-80



### Connections

- Water: Wafer mounted between flanges (see table)
- Foam inlet: flanged to fit DIN PN 16 or ANSI 150lbs or screw threaded BSP

### Listings and approvals

- Det Norske Veritas (DNV)
- Factory Mutual approval for: PP-100/50; 150/50; 200/80
- RINA approval for PP-100/50
- Russian Maritime Register of Shipping
- Chinese class CCS PP-100/50 and 150/50

### Performance Data PP Proportioners

Type	Connection		Capacity				Weight		Proportioner k-factor
	Foam/Water	Water	Min.	Max.	Min.	Max.	kg	lbs	
PP-50/20	3/4" BSP	50 / 2"	125	33	800	211	6	13	300
PP-80/20	3/4" BSP	80 / 3"	300	79	2,000	528	10	22	1,010
PP-100/50	50 / 2"	100 / 4"	770	203	4,900	1,295	20	44	4,040
PP-150/50	50 / 2"	150 / 6"	1,500	396	9,800	2,589	25	55	7,970
PP-200/80	80 / 3"	200 / 8"	2,875	760	21,100	5,575	44	97	17,255
PP-250/80	80 / 3"	250 / 10"	5,100	1,347	33,100	8,745	54	119	27,060

The foam concentrate pressure must exceed the water pressure by at least 1 bar



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# Balanced Pressure Proportioner

## PP and PPW

Datasheet 1010/40  
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(replaces datasheets 1010/19 and 23)

### Application description: Wide range proportioner - PPW



The PPW offers accurate proportioning of foam concentrate irrespective of variations in flow and pressure. These capabilities are vital for the correct proportioning of foam concentrates into feed water lines.

### Product features

- Easy adjustable integrated foam regulating nozzle
- Accurate proportioning over the range
- Maintenance free construction
- Compact design
- Water connection wafer type
- Foam connection flanged or threaded
- Made of high grade corrosion resistant bronze and stainless steel
- Dynamic flow range up to 100:1

### Connections

- Water: Wafer mounted between flanges (see table)
- Foam inlet: flanged to fit DIN PN 16, ANSI 150 lbs or screw threaded BSP

### Listings and approvals

- Det Norske Veritas (DNV)
- Factory Mutual approval for: PPW-100/50; 150/50; 200/80
- RINA approval for PPW-100/50
- Russian Maritime Register of Shipping

### Operation

The proportioner will operate automatically when the flows and pressure are within the flow range. The foam pressure must be at least one bar higher than the water pressure through the proportioner.

### Optional

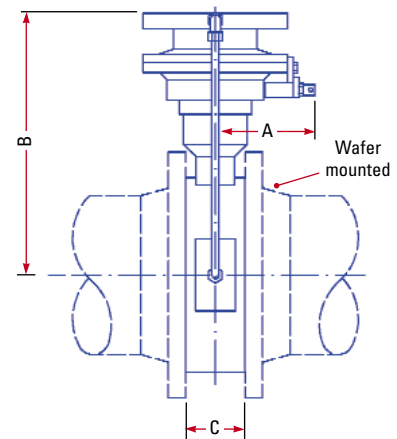
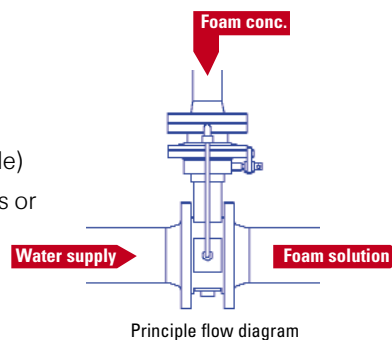
- Available in optional materials including stainless steel, super duplex and titanium.
- Gauges on foam/water lines

### Order information - please specify:

1. Size
2. Connection: DIN or ANSI



PP / PPW



Dimensions PP and PPW

PP	PPW	A mm	B mm	C mm
PP-50/20		60	200	37
PP-80/20		60	200	37
PP-100/50	PPW-100/50	115	271	70
PP-150/50	PPW-150/50	115	297	70
PP-200/80	PPW-200/80	140	361	82
PP-250/80	PPW-250/80	140	390	82

Performance Data PPW Proportioners

Type	Connection		Capacity				Weight		Proportioner k-factor
	Foam/Water	Water	l/min	USGPM	l/min	USGPM	kg	lbs	
PPW-100/50	50 / 2"	100 / 4"	75	20	2,500	661	20	44	2,040
PPW-150/50	50 / 2"	150 / 6"	100	26	5,600	1,480	26	57	4,585
PPW-200/80	80 / 3"	200 / 8"	125	33	10,600	2,801	45	99	8,660
PPW-250/80	80 / 3"	250 / 10"	150	40	16,100	4,254	55	121	13,115

\*At proportioner system pressure drop 1.5 bar, Min. 0.3 bar Q l/min. =  $\sqrt{P}$  bar = k-factor  
1 bar = 0.1 MPa = 14.5 psi Max. working pressure: 16 bar/235 psi



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