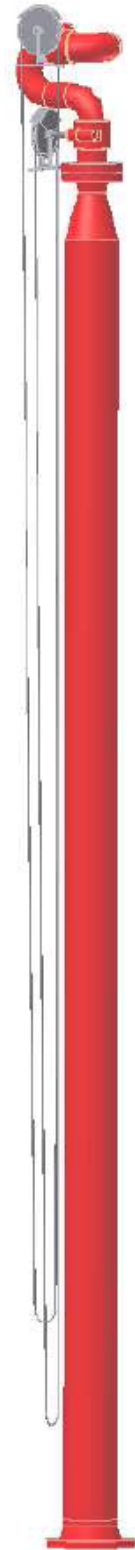


Monitors

Warden 3674 Chain Operated Monitor



The Orion Tower Monitors are manufactured using a warden 3674 chain operated remote controlled monitor mounted on a pipe tower. The two units are connected by flanges to a pipe section. For units over the height limit for the flow and pressure additional support is also required to control the deflection or prevent failure of the pipe column. The gear drives and swivel assemblies are totally enclosed to prevent the ingress of foreign matter. Swivel units have twin ball races for smooth running.

The monitor is operated by the chain operated hand wheels from the base for side to side movement & elevation. The outlet is 65mm BSP. Maximum recommended flow rate is 3780 lpm at 700 kPa without special design consideration.

ORION FIRE ENGINEERING PTY LIMITED

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The monitors have a horizontal rotation of 360 degrees and 150 degrees of vertical rotation (+90 to -60). The monitor can be fitted with foam nozzles or water nozzles. Wire operated fog nozzles are also available.

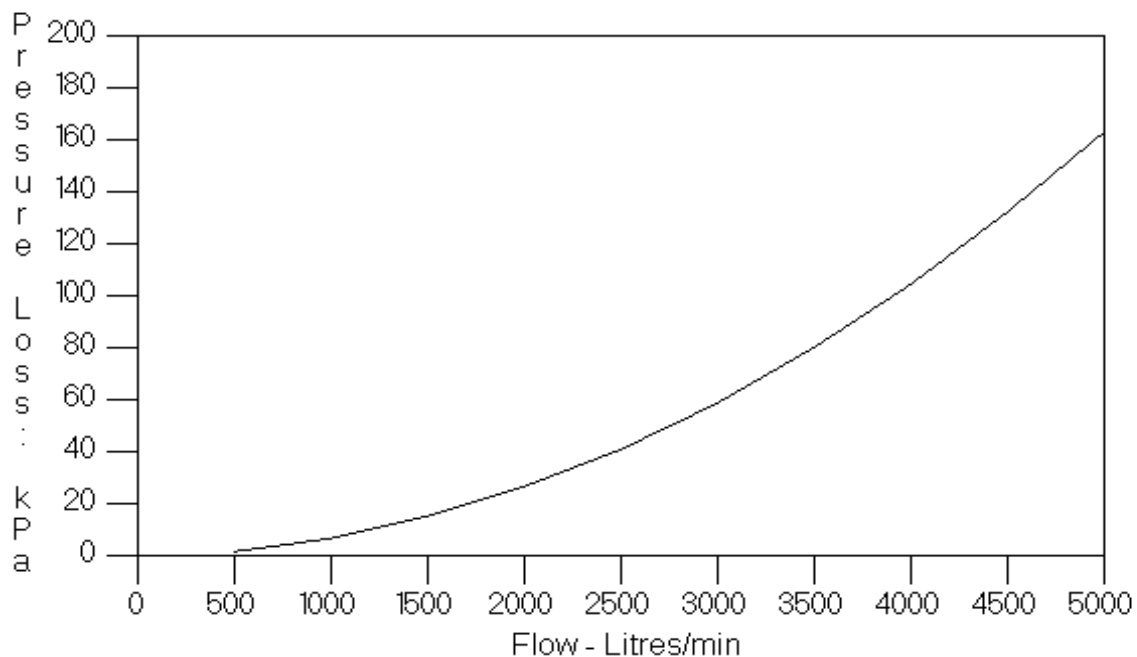
SPECIFICATION

Maximum Flow:	3,780 lpm
Horizontal Rotation:	360°
Vertical Movement:	150°
Inlet Connection	Flanged 4" ANSI #150 FF
Outlet Connection	80mm BSP Male

Materials of Construction

Waterway:	C83600 or C98800
Swivels:	C83600 or C98800
Inlet Flange:	C83600 or C98800
Balls:	Brass
Grease Nipples:	316 Stainless Steel
Handwheels:	Bronze alloy
Drive Worm:	316 Stainless Steel
Fasteners:	316 Stainless Steel

Friction Loss Curve
(excluding tower and elevation losses)



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Tower Height Options

Maximum un-supported height (M)

Nominal Nozzle Flow (700 kPa)	Operating Pressure	Actual Flow lpm	Nozzle Reaction Newtons	Maximum Monitor Height	
				4" Sched 40 meters	6" Sched 40 meters
1,900 lpm	700	1,900	1,179	6.0	10.0
1,900 lpm	800	2,031	1,348	5.5	10.0
1,900 lpm	900	2,154	1,516	4.8	10.0
1,900 lpm	1000	2,271	1,685	4.2	10.0
1,900 lpm	1500	2,781	2,527		7.5
2,840 lpm	700	2,839	1,762	-	10.0
2,840 lpm	800	3,035	2,013	-	9.0
2,840 lpm	900	3,219	2,265	-	8.0
2,840 lpm	1000	3,393	2,517	-	7.0
2,840 lpm	1500	4,156	3,775	-	5.0
3,785 lpm	700	3,785	2,349	-	8.0
3,785 lpm	800	4,046	2,685	-	7.0
3,785 lpm	900	4,292	3,020	-	6.0
3,785 lpm	1000	4,524	3,356	-	5.5
3,785 lpm	1500	5,541	5,034	-	3.5

Additional design tower reinforcement can be engineered to allow for taller tower options. Using heavier weight (schedule 80 or 160) or larger diameter pipe can extend allowable tower height without support.

NOTE: The base foundations must be correctly engineered for the tower load. Do not install a valve in the riser. Valves are not rated for the load.



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