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# RESISHIELD Q-LIM BY DUTYPOINT



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Q-LIM is a solution which provides a dynamic control of the flow rate according to differential pressure, meaning that we can manipulate the shape of the performance curves of the ResiSHIELD pump set to suit the sprinkler system requirements.

**PRODUCT OVERVIEW**

- Achieve significant reductions in sprinkler system storage tank volume requirements without compromising performance
- Reduces pump cavitation risk
- Accurate, reliable control of maximum flow rate from a ResiSHIELD sprinkler pump set
- Fail-safe proven design
- Wide range of flow options
- Offered as a fully integrated upgrade within ResiSHIELD RZ and RV pump sets
- No commissioning or maintenance is necessary
- Ultra-robust material construction for high-temperature resistance performance and long design life



**PRODUCT RANGE**

ResiSHIELD range	Q-LIM rated flow options (rated flow l/min)	Final discharge connection*
RZ05	82, 91, 102, 114, 125, 138	1"
RZ10	125, 138, 150, 162, 180, 199, 216, 233	1 ¼"
RZ15	199, 216, 233, 256	1 ½"
RZ15	264, 292, 328, 364, 408	2"
RZ20	233, 256	1 ½"
RZ20	264, 292, 328, 364, 408, 456	2"
RV15	199, 216, 233, 256, 264, 292, 328, 364, 408	2"
RV20	233, 256, 264, 292, 328, 364, 408, 456	2"
RV30	375, 414, 450, 486, 540, 597, 648, 699	2 ½"
RV45	540, 597, 648, 699, 768	2 ½"
RV45	810, 900, 995	3"

\*The final discharge connection may differ from standard ResiSHIELD model.

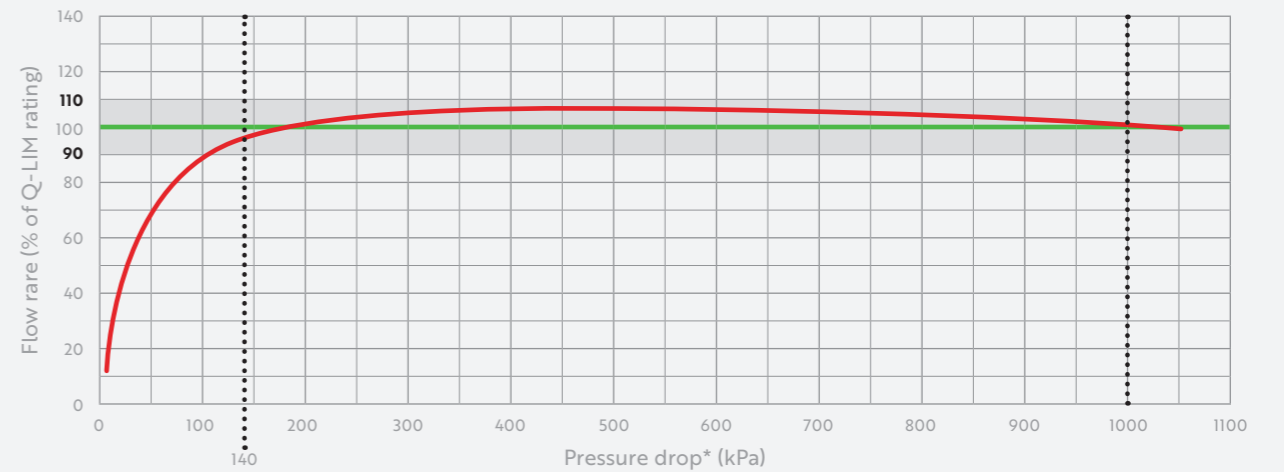


**Q-LIM PERFORMANCE CURVE**

The below curve illustrates the typical performance of Q-LIM technology. The red curve shows the amount of pressure drop that is affected across the Q-LIM device at any given flow rate.

- Nominal flow rate
- Actual flow rate (as a percentage of the rated flow)

\* Pressure drop is the difference between inlet and outlet pressure across the valve.

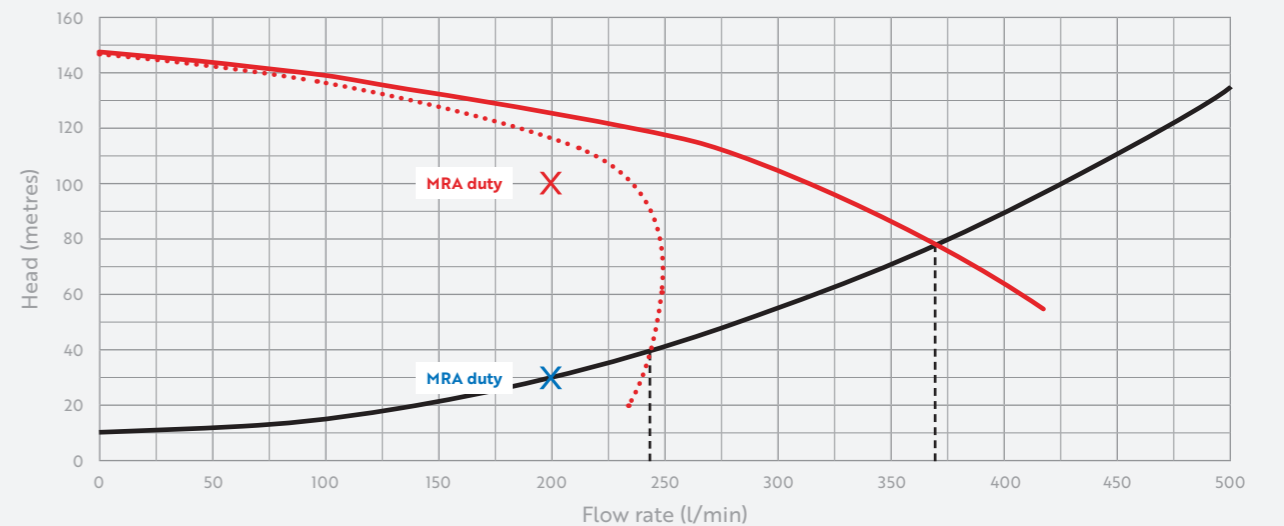


**WORKED EXAMPLE:**

MRA duty: 200 l/min at 10 bar  
ResiSHIELD pump selection: RV1510

MFA duty: 200 l/min at 3 bar  
Q-LIM selection: QL233PR (233 l/min rated flow)

- RV1510
- RV1510-QL233PR
- System curve



Q-MAX without Q-LIM technology: 370 l/min

Q-MAX with Q-LIM technology: 245 l/min

Saving: 125 l/min\* 60 mins storage = 7.5m<sup>3</sup> less tank volume required by using Q-LIM



**Let's talk about the  
Q-LIM flow control**

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