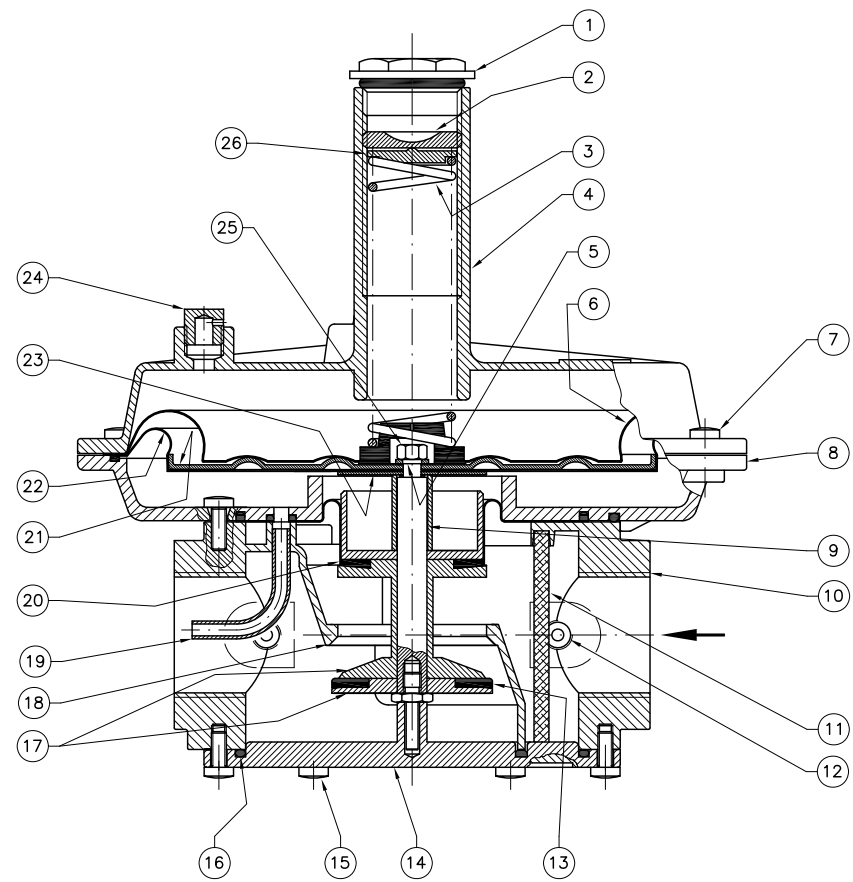


**fig. 1 - Attacchi filettati**  
**fig. 1 - Threaded connections**  
**fig. 1 - Fixations filetéés**  
**abb. 1 - Betresste Anschlüsse**  
**fig. 1 - Conexiones roscadas**

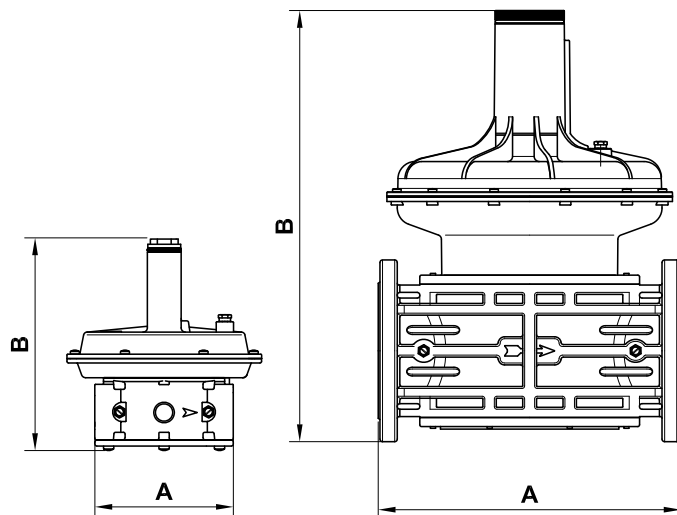


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| <p><b>I</b></p> <p>fig. 1</p> <ol style="list-style-type: none"> <li>- Tappo alluminio</li> <li>- Vite di regolazione</li> <li>- Molla di taratura</li> <li>- Imbuto</li> <li>- Rosetta dentata</li> <li>- Membrana di sicurezza</li> <li>- Viti di fissaggio imbuto</li> <li>- Flangia</li> <li>- Perno centrale</li> <li>- Corpo</li> <li>- Organo filtrante</li> <li>- Presa di pressione</li> <li>- Rondella di tenuta</li> <li>- Fondello</li> <li>- Viti di fissaggio fondello</li> <li>- O-Ring di tenuta fondello</li> <li>- Otturatore</li> <li>- Sede di tenuta</li> <li>- Tubetto sensore</li> <li>- Membrana di compensazione</li> <li>- Disco superiore per membrana</li> <li>- Membrana di funzionamento</li> <li>- Disco inferiore per membrana</li> <li>- Tappo antipolvere</li> <li>- Dado centrale</li> <li>- Rondella per molla</li> </ol> | <p><b>GB</b></p> <p>fig. 1</p> <ol style="list-style-type: none"> <li>- Aluminium cap</li> <li>- Regulation screw</li> <li>- Setting spring</li> <li>- Funnel</li> <li>- Toothed washer</li> <li>- Safety diaphragm</li> <li>- Funnel fixing screws</li> <li>- Flange</li> <li>- Central pin</li> <li>- Body</li> <li>- Filtering organ</li> <li>- Pressure tap</li> <li>- Seal washer</li> <li>- Bottom</li> <li>- Bottom fixing screws</li> <li>- Bottom seal O-Ring</li> <li>- Obturator</li> <li>- Logement d'étanchéité</li> <li>- Sensor tube</li> <li>- Compensation diaphragm</li> <li>- Diaphragm upper disc</li> <li>- Working diaphragm</li> <li>- Diaphragm lower disc</li> <li>- Antidust cap</li> <li>- Central nut</li> <li>- Washer for spring</li> </ol> | <p><b>F</b></p> <p>fig. 1</p> <ol style="list-style-type: none"> <li>- Bouchon en aluminium</li> <li>- Vis de réglage</li> <li>- Ressort de tarage</li> <li>- Entonnoir</li> <li>- Rosette dentillée</li> <li>- Membrane de sécurité</li> <li>- Vis de fixation entonnoir</li> <li>- Bride</li> <li>- Pivo central</li> <li>- Corps</li> <li>- Composant filtrant</li> <li>- Prise de pression</li> <li>- Rondelle de tenue</li> <li>- Basement</li> <li>- Vis de fixation du basement</li> <li>- O-Ring de tenue du basement</li> <li>- Obturateur</li> <li>- Logement d'étanchéité</li> <li>- Tube capteur</li> <li>- Membrane de compensation</li> <li>- Disque supérieur pour membrane</li> <li>- Membrane de fonctionnement</li> <li>- Disque inférieur pour membrane</li> <li>- Bouchon anti-poussière</li> <li>- Boulon central</li> <li>- Rondelle pour ressort</li> </ol> |
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| <p><b>D</b></p> <p>abb. 1</p> <ol style="list-style-type: none"> <li>- Aluminiumpfropfen</li> <li>- Regelschraube</li> <li>- Eichungsfeder</li> <li>- Trichter</li> <li>- Zahrossette</li> <li>- Sicherheitsmembrane</li> <li>- Trichterfixierschraube</li> <li>- Flansch</li> <li>- Zentralstift</li> <li>- Körper</li> <li>- Filterorgan</li> <li>- Drucksstecker</li> <li>- Dichtungssring</li> <li>- Boden</li> <li>- Bodenfixierschrauben</li> <li>- O-Ring Bodenplatte</li> <li>- Verschluß</li> <li>- Teflonring</li> <li>- Sensorröhrchen</li> <li>- Ausgleichsmembrane</li> <li>- Obere Membranplatte</li> <li>- Arbeitsmembrane</li> <li>- Untere Membranplatte</li> <li>- Staubabwehrpfropfen</li> <li>- Mittelmutter</li> <li>- Ring für Feder</li> </ol> | <p><b>E</b></p> <p>fig. 1</p> <ol style="list-style-type: none"> <li>- Tapon de aluminio</li> <li>- Tornillo de regulación</li> <li>- Muelle de tarado</li> <li>- Embudo</li> <li>- Arandela dentada</li> <li>- Membrana de seguridad</li> <li>- Tornillos de fijación embudo</li> <li>- Arandela</li> <li>- Eje central</li> <li>- Cuerpo</li> <li>- Elemento filtrante</li> <li>- Toma de presión</li> <li>- Dichtungsestanquidad</li> <li>- Fondillos</li> <li>- Tornillos de fijación fondillos</li> <li>- O-ring de estanquidad fondillos</li> <li>- Obturador</li> <li>- Alojamiento de retención</li> <li>- Tubito sensor</li> <li>- Membrana de compensación</li> <li>- Disco superior para membrana</li> <li>- Membrana de trabajo</li> <li>- Disco inferior para membrana</li> <li>- Tapon antipolvo</li> <li>- Tuerca central</li> <li>- Arandela para muelle</li> </ol> |
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**Dimensioni in mm**  
**Dimensions in mm**  
**Dimension en mm**  
**Ausmaße in mm**  
**Dimensiones en mm**

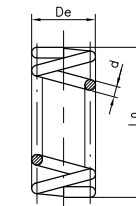
Attacchi Connections Fixations Anschlüsse Conexiones	A	B
DN 15	120	194
DN 20	120	194
DN 25	120	194
DN 32	160	245
DN 40	160	245
DN 50	160	245
DN 65	290	465
DN 80	310	472
DN 100	350	504



**CARATTERISTICHE MOLLE DI REGOLAZIONE**  
**REGULATION SPRING DATA**  
**CARACTERISTIQUES DES RESSORTS DE REGLAGE**  
**EIGENSCHAFTEN REGELFEDERN**  
**CARACTERÍSTICAS MUELLES DE REGULACIÓN**

Codice molla Spring code Code ressort FederKode Código muelle	dimensioni in mm (d x De x Lo x It) dimensions in mm (d x De x Lo x It) mesures en mm (d x De x Lo x It) Ausmaße in mm (d x De x Lo x It) dimensiones en mm (d x De x Lo x It)	Attacchi Connections Fixations Anschlüsse Conexiones	Taratura (mbar) Setting (mbar) Tarage (mbar) Eichung (mbar) Tarado (mbar)
MO-0402	1,5x29x85x10	DN 15 - DN 20 - DN 25	9 + 28
MO-0500	1,6x29x115x12	DN 15 - DN 20 - DN 25	18 + 40
MO-0825	2,2x29x100x12	DN 15 - DN 20 - DN 25	40 + 110
MO-0900	2,5x29x140x18,5	DN 15 - DN 20 - DN 25	110 + 150
MO-0970	2,5x29x155x16	DN 15 - DN 20 - DN 25	150 + 200
MO-0500	1,6x29x115x12	DN 32 - DN 40 - DN 50	8 + 13
MO-0970	2,5x29x155x16	DN 32 - DN 40 - DN 50	33 + 58
MO-1000	3x29x140x18	DN 32 - DN 40 - DN 50	55 + 100
MO-1370	3,5x29x125x14	DN 32 - DN 40 - DN 50	90 + 190
MO-1070	4x66,5x155x16	DN 65 - DN 80	7 + 18
MO-1100	4,5x70x200x14,5	DN 65 - DN 80	13 + 27
MO-1200	5x70x210x13,5	DN 65 - DN 80	22 + 58
MO-1400	6x70x200x10,5	DN 65 - DN 80	50 + 130
MO-1400 + MO-1800	6x70x200x10,5 + 5,5x54,5x195x12,5	DN 65 - DN 80	100 + 200
MO-1070	4x66,5x155x16	DN 100	7 + 16
MO-1100	4,5x70x200x14,5	DN 100	15 + 27
MO-1200	5x70x210x13,5	DN 100	27 + 55
MO-1400	6x70x200x10,5	DN 100	55 + 130
MO-1400 + MO-1800	6x70x200x10,5 + 5,5x54,5x195x12,5	DN 100	130 + 200

it = numero di spire totali  
 it = total number of turns  
 it = nombre total de spires  
 it = Gesamtanzahl der Windungen  
 it = numero total de espiras



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**FRG/2M**

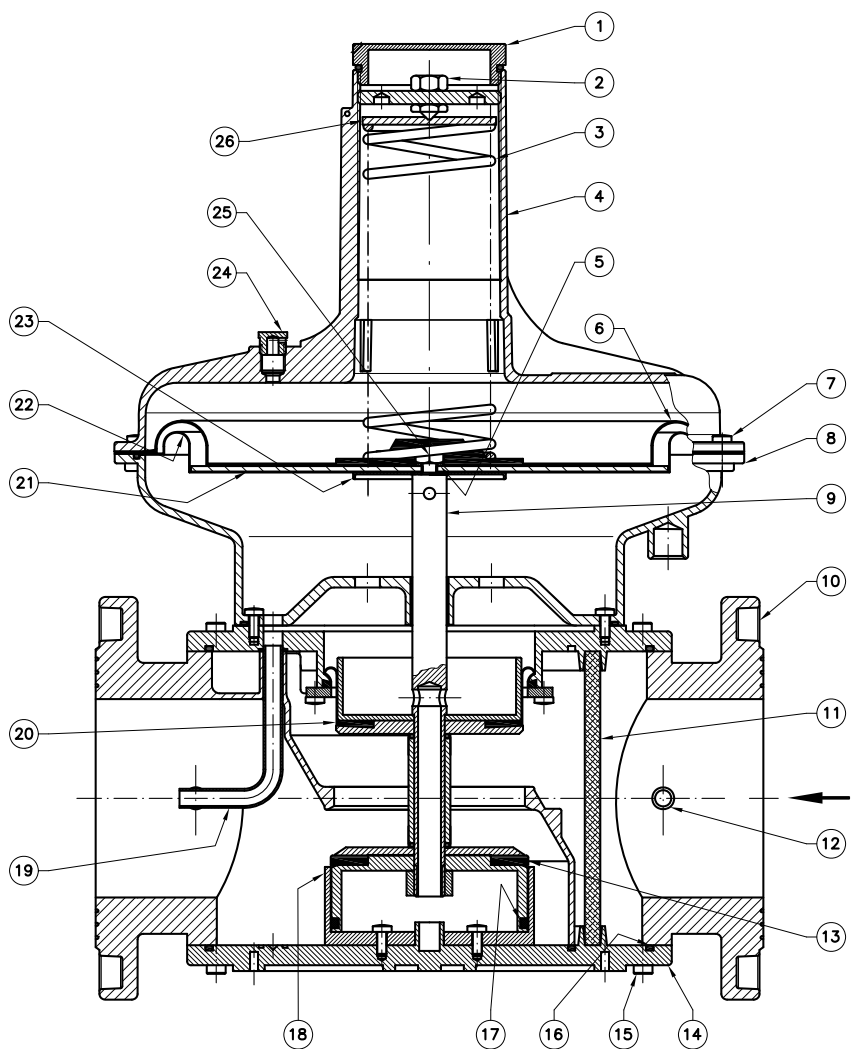
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 EN 88-1 EC approved  
 Homologation CE conforme à EN 88-1  
 EG-Zulassung gemäß EN 88-1  
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 Conforme Directiva Gas 2009/142/CE

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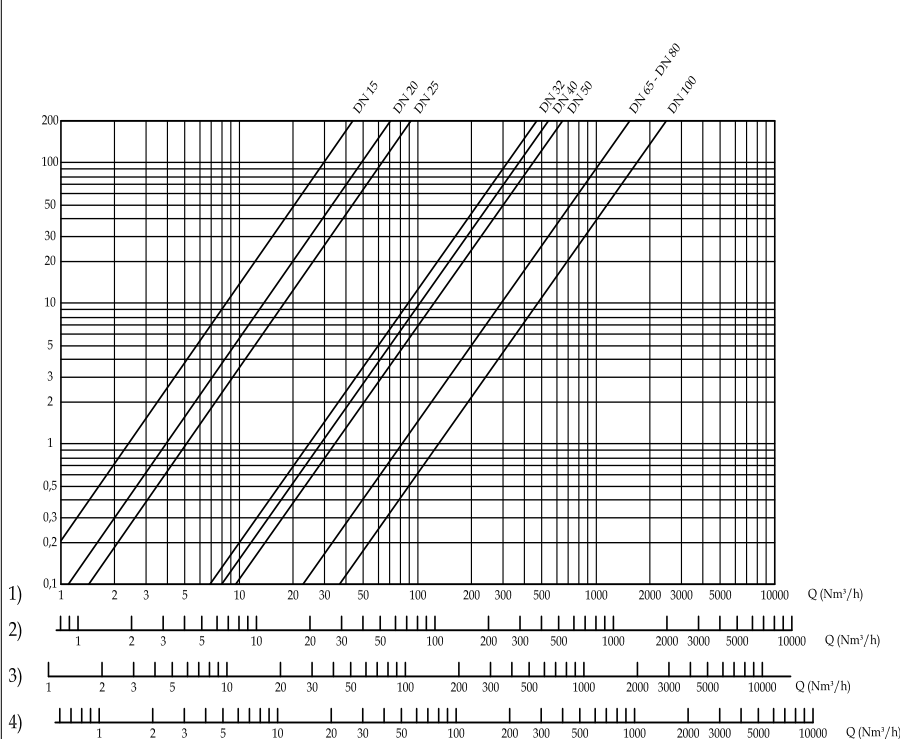
**fig. 2 - Attacchi flangiati**  
**fig. 2 - Flanged connections**  
**fig. 2 - Fixations bridées**  
**abb. 2 - Geflanschteste Anschlüsse**  
**fig. 2 - Conexiones de arandela**



- |  |   |   |
|--|---|---|
| <p><b>I</b></p> <p>fig. 2</p> <ol style="list-style-type: none"> <li>- Tappo alluminio</li> <li>- Vite di regolazione</li> <li>- Molla di taratura</li> <li>- Imbuto</li> <li>- Rosetta dentata</li> <li>- Membrana di sicurezza</li> <li>- Viti di fissaggio imbuto</li> <li>- Flangia</li> <li>- Perno centrale</li> <li>- Corpo</li> <li>- Organo filtrante</li> <li>- Presa di pressione</li> <li>- Rondella di tenuta</li> <li>- Fondello</li> <li>- Viti di fissaggio fondello</li> <li>- Anello di teflon</li> <li>- Campana/guida otturatore</li> <li>- Tubetto sensore</li> <li>- Membrana di compensazione</li> <li>- Disco superiore per membrana</li> <li>- Membrana di funzionamento</li> <li>- Disco inferiore per membrana</li> <li>- Tappo antipolvere</li> <li>- Dado centrale</li> <li>- Rondella per molla</li> </ol> | <p><b>GB</b></p> <p>fig. 2</p> <ol style="list-style-type: none"> <li>- Aluminium cap</li> <li>- Regulation screw</li> <li>- Setting spring</li> <li>- Funnel</li> <li>- Toothed washer</li> <li>- Safety diaphragm</li> <li>- Funnel fixing screws</li> <li>- Flange</li> <li>- Central pin</li> <li>- Body</li> <li>- Filtering organ</li> <li>- Pressure tap</li> <li>- Seal washer</li> <li>- Bottom</li> <li>- Bottom fixing screws</li> <li>- Teflon ring</li> <li>- Obturator guide</li> <li>- Sensor tube</li> <li>- Compensation diaphragm</li> <li>- Diaphragm upper disc</li> <li>- Working diaphragm</li> <li>- Diaphragm lower disc</li> <li>- Antidust cap</li> <li>- Central nut</li> <li>- Washer for spring</li> </ol> | <p><b>F</b></p> <p>fig. 2</p> <ol style="list-style-type: none"> <li>- Bouchon en aluminium</li> <li>- Vis de réglage</li> <li>- Ressort de tarage</li> <li>- Entonnoir</li> <li>- Rosette dentillée</li> <li>- Membrane de sécurité</li> <li>- Vis de fixation entonnoir</li> <li>- Bride</li> <li>- Pivo central</li> <li>- Corps</li> <li>- Composant filtrant</li> <li>- Prise de pression</li> <li>- Rondelle de tenue</li> <li>- Basement</li> <li>- Vis de fixation du basement</li> <li>- O-Ring de tenue du basement</li> <li>- Anneau en teflon</li> <li>- Guide obturateur</li> <li>- Tube capteur</li> <li>- Membrane de compensation</li> <li>- Disque supérieur pour membrane</li> <li>- Membrane de fonctionnement</li> <li>- Disque inférieur pour membrane</li> <li>- Bouchon anti-poussière</li> <li>- Boulon central</li> <li>- Rondelle pour ressort</li> </ol> |
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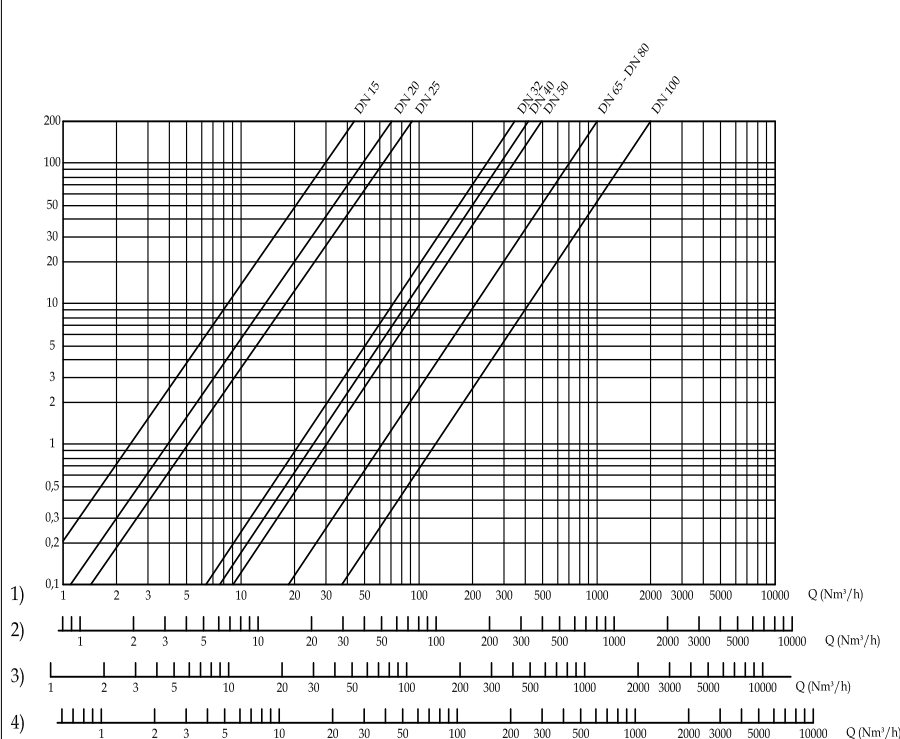
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| <p><b>D</b></p> <p>abb. 2</p> <ol style="list-style-type: none"> <li>- Aluminiumpfropfen</li> <li>- Regelschraube</li> <li>- Muelle de tarado</li> <li>- Trichter</li> <li>- Zahrossette</li> <li>- Sicherheitsmembrane</li> <li>- Trichterfixierschraube</li> <li>- Flansch</li> <li>- Zentralstift</li> <li>- Körper</li> <li>- Filterorgan</li> <li>- Drucksstecker</li> <li>- Dichtungssring</li> <li>- Boden</li> <li>- Bodenfixierschrauben</li> <li>- O-Ring Bodenplatte</li> <li>- Teflonring</li> <li>- Führung Verschlußvorrichtung</li> <li>- Sensorröhrchen</li> <li>- Ausgleichsmembrane</li> <li>- Obere Membranplatte</li> <li>- Arbeitsmembrane</li> <li>- Untere Membranplatte</li> <li>- Staubabwehrpfropfen</li> <li>- Mittelmutter</li> <li>- Ring für Feder</li> </ol> | <p><b>E</b></p> <p>fig. 2</p> <ol style="list-style-type: none"> <li>- Tapon de aluminio</li> <li>- Tornillo de regulación</li> <li>- Muelle de tarado</li> <li>- Embudo</li> <li>- Arandela dentada</li> <li>- Membrana de seguridad</li> <li>- Tornillos de fijación embudo</li> <li>- Arandela</li> <li>- Eje central</li> <li>- Cuerpo</li> <li>- Elemento filtrante</li> <li>- Toma de presión</li> <li>- Dichtungsestanquidad</li> <li>- Fondillos</li> <li>- Tornillos de fijación fondillos</li> <li>- O-ring de estanquidad fondillos</li> <li>- Anillo de teflon</li> <li>- Guía obturador</li> <li>- Tubito sensor</li> <li>- Membrana de compensación</li> <li>- Disco superior para membrana</li> <li>- Membrana de trabajo</li> <li>- Disco inferior para membrana</li> <li>- Tapon antipolvo</li> <li>- Tuerca central</li> <li>- Arandela para muelle</li> </ol> |
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**Diagramma perdite di carico regolatori senza filtro (RG/2M)**  
**Capacity diagram of regulators without filter (RG/2M)**  
**Diagramme perte de charge régulateurs sans filtre (RG/2M)**  
**Diagramm Belastungsverlust regler ohne Filter (RG/2M)**  
**Diagrama de caudales reguladores sin filtro (RG/2M)**



- 1) metano - methane - méthane - methan - metano
- 2) aria - air - air - luft - aire
- 3) gas di città - town gas - gaz de ville - stadtgas - gas de ciudad
- 4) gpl - lpg - gaz liquide - flussiggas - gas liquido

**Diagramma perdite di carico regolatori con filtro (FRG/2M)**  
**Capacity diagram of regulators with filter (FRG/2M)**  
**Diagramme perte de charge régulateurs avec filtre (FRG/2M)**  
**Diagramm Belastungsverlust regler mit Filter (FRG/2M)**  
**Diagrama de caudales reguladores con filtro (FRG/2M)**

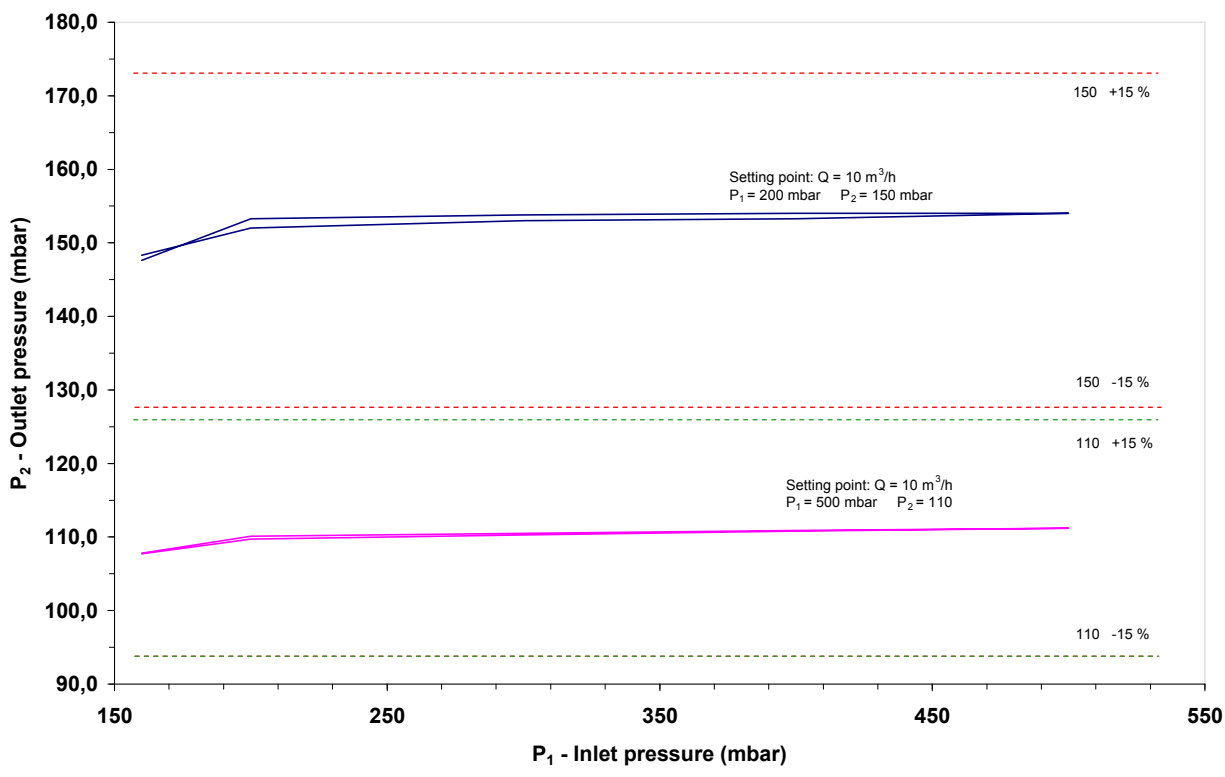


- 1) metano - methane - méthane - methan - melano
- 2) aria - air - air - luft - aire
- 3) gas di città - town gas - gaz de ville - stadtgas - gas de ciudad
- 4) gpl - lpg - gaz liquide - flussiggas - gas liquido

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Graph of performance using inlet pressure variation - MO-0900 springs - DN 20





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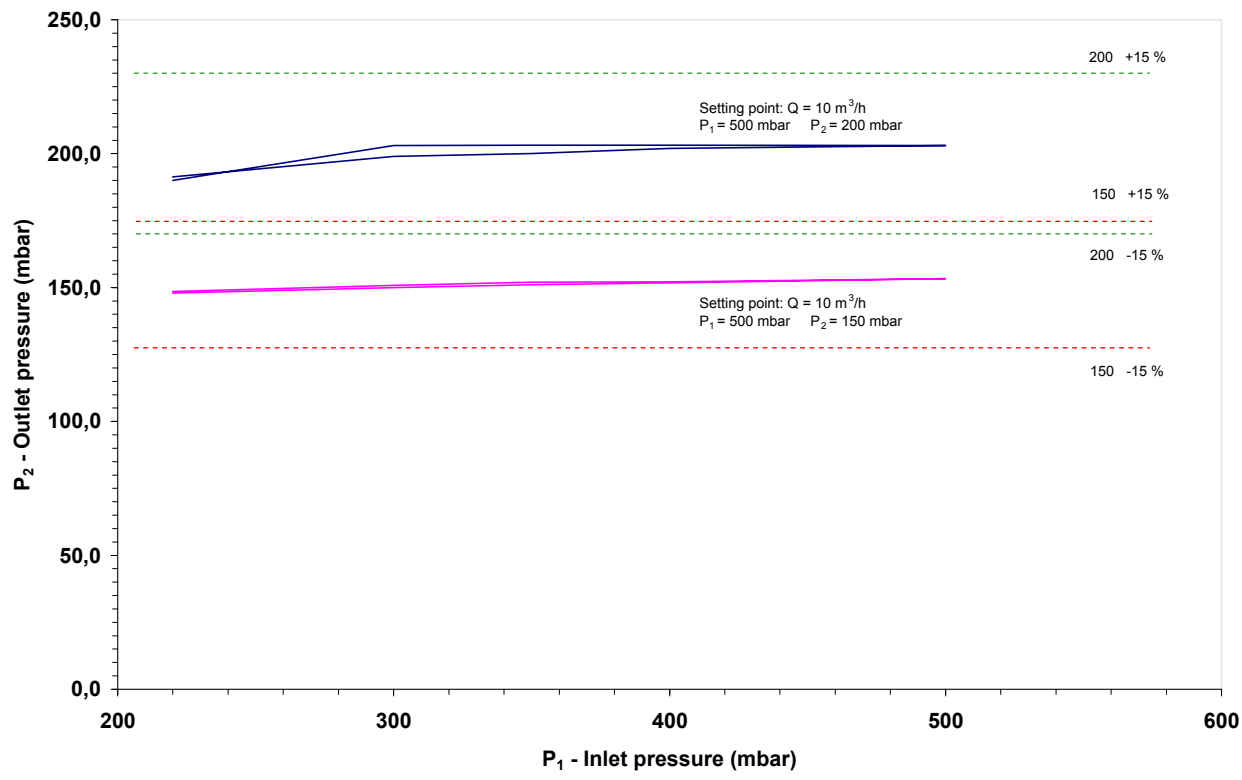
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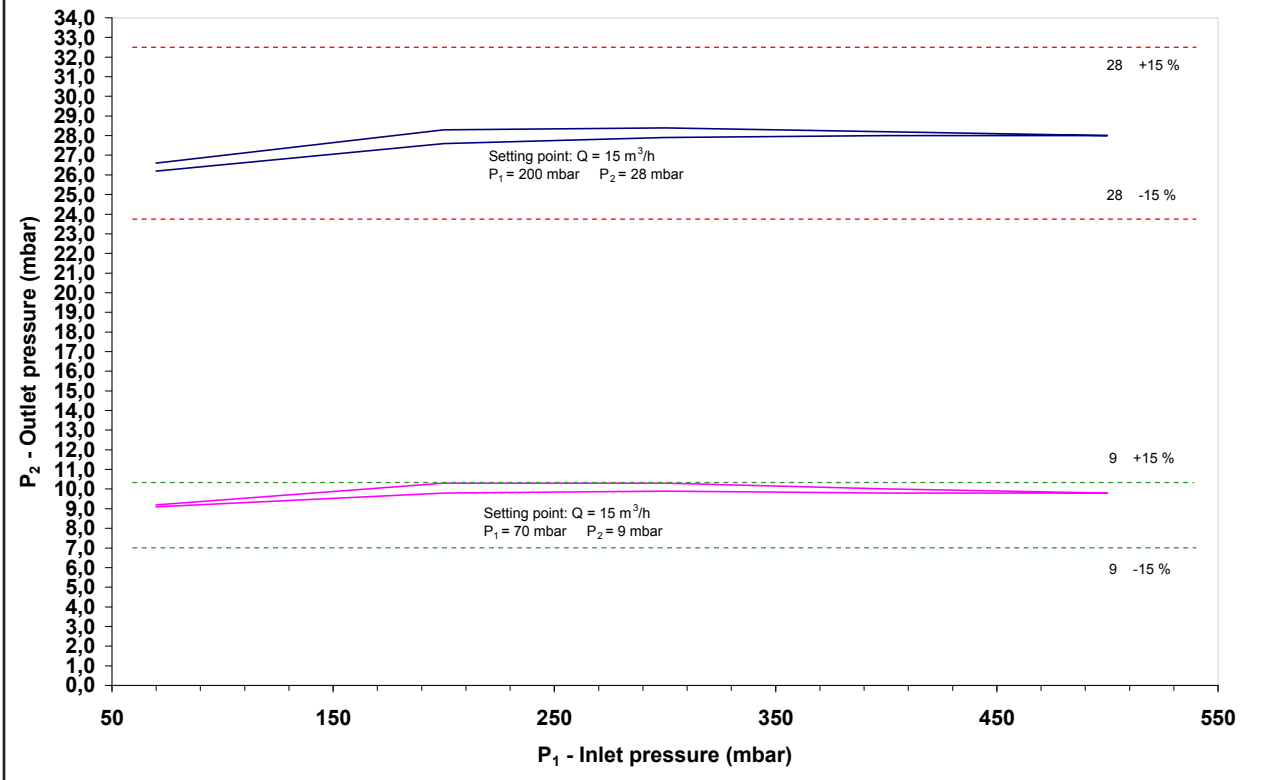
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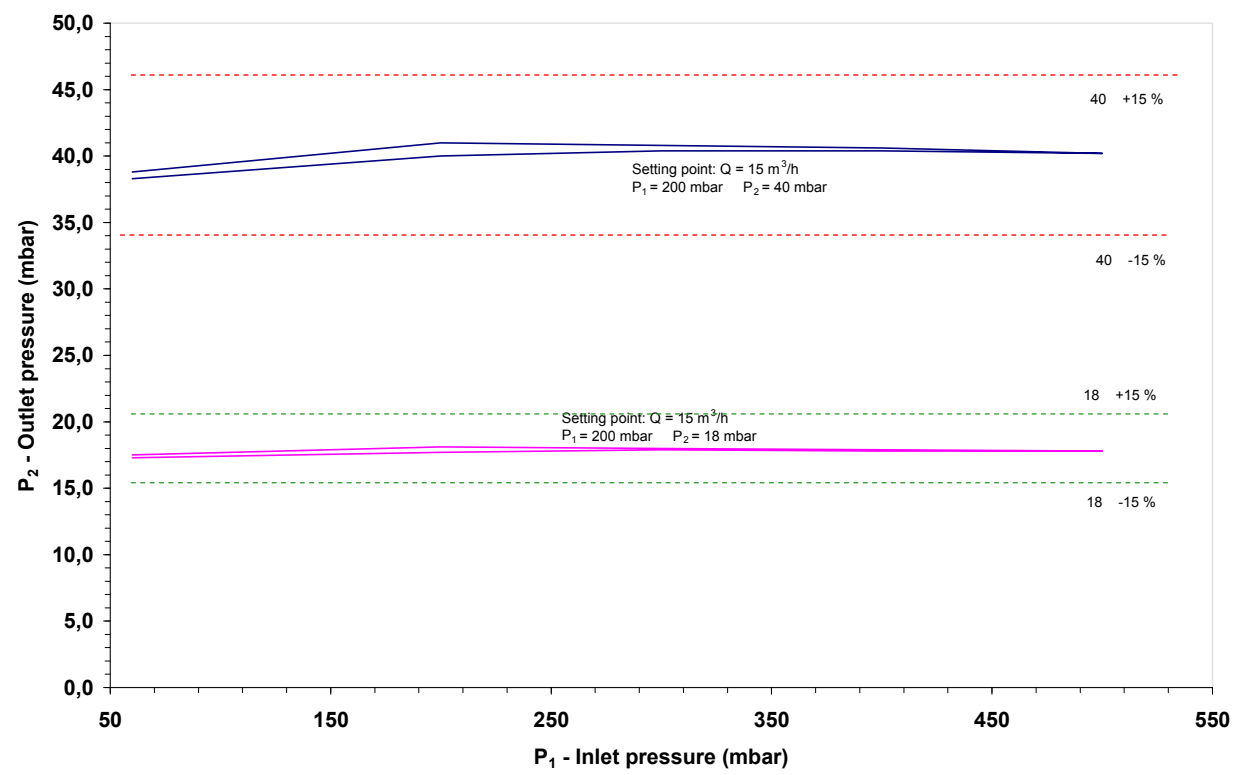
Graph of performance using inlet pressure variation - MO-0970 spring - DN 20



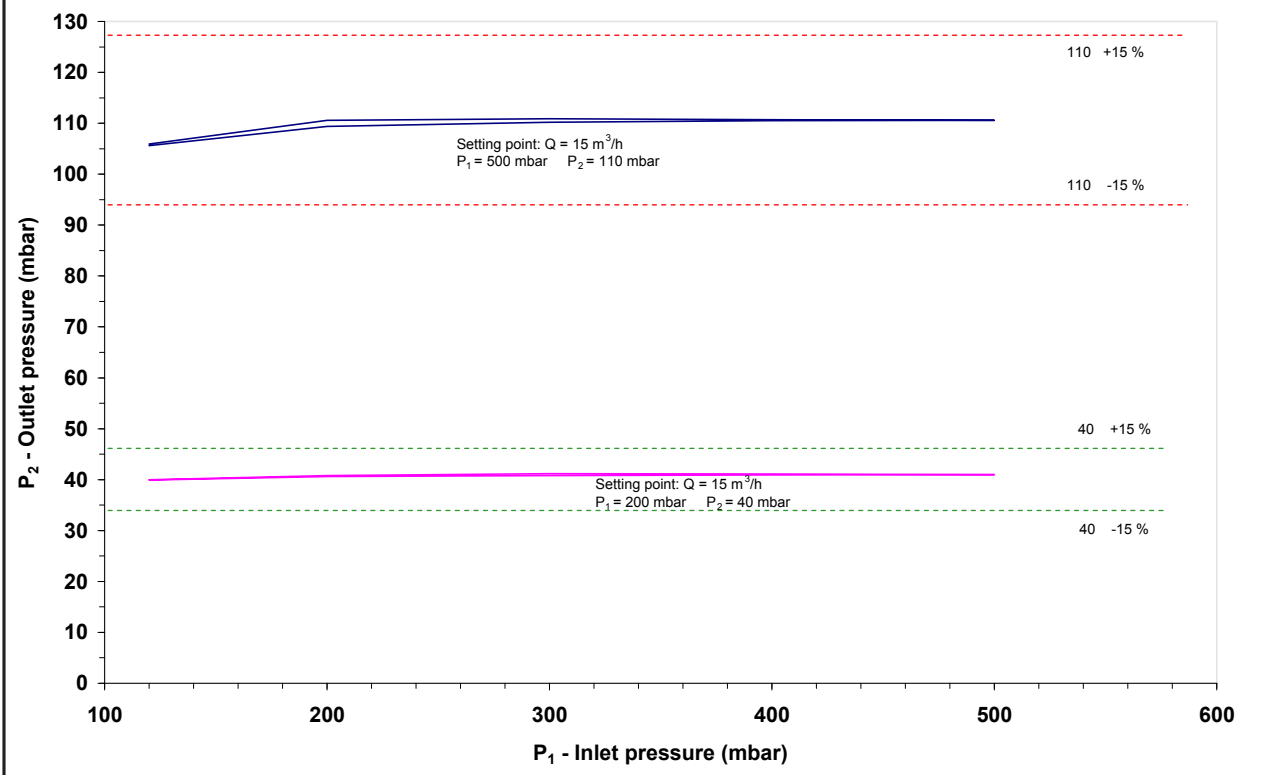
Graph of performance using inlet pressure variation - MO-0402 spring - DN 25



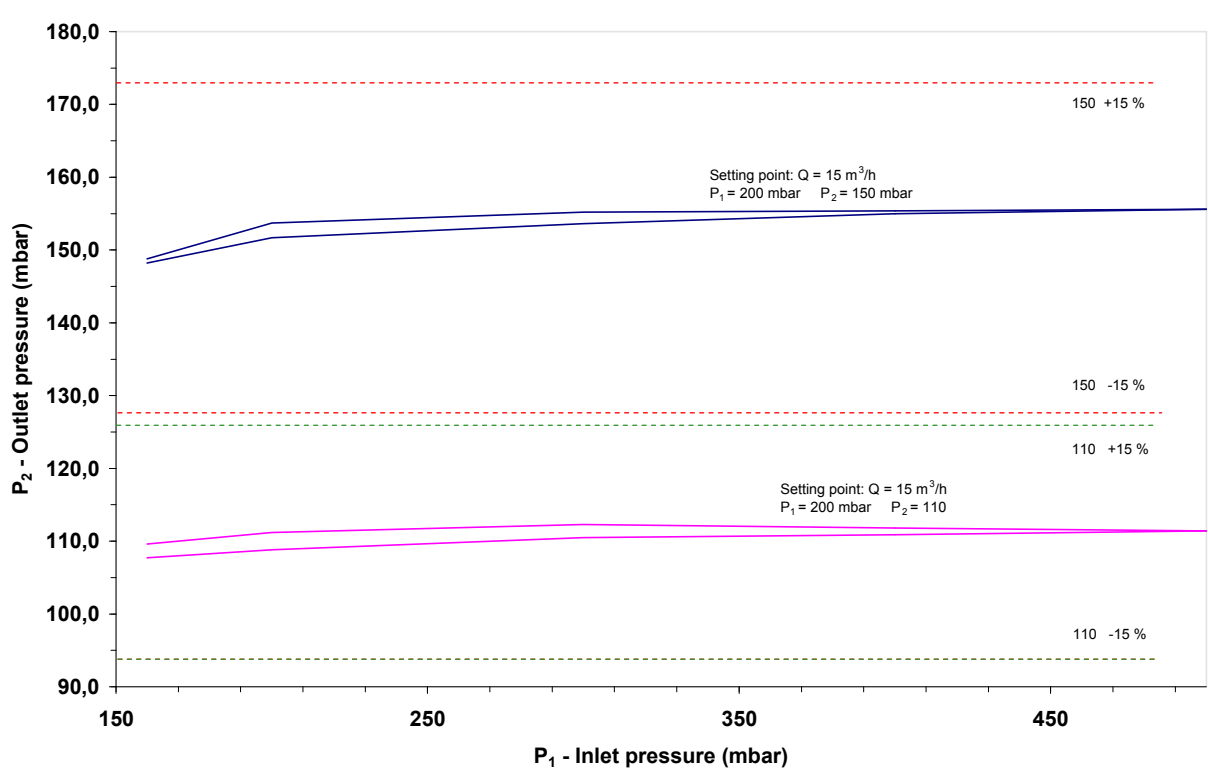
Graph of performance using inlet pressure variation - MO-0500 spring - DN 25



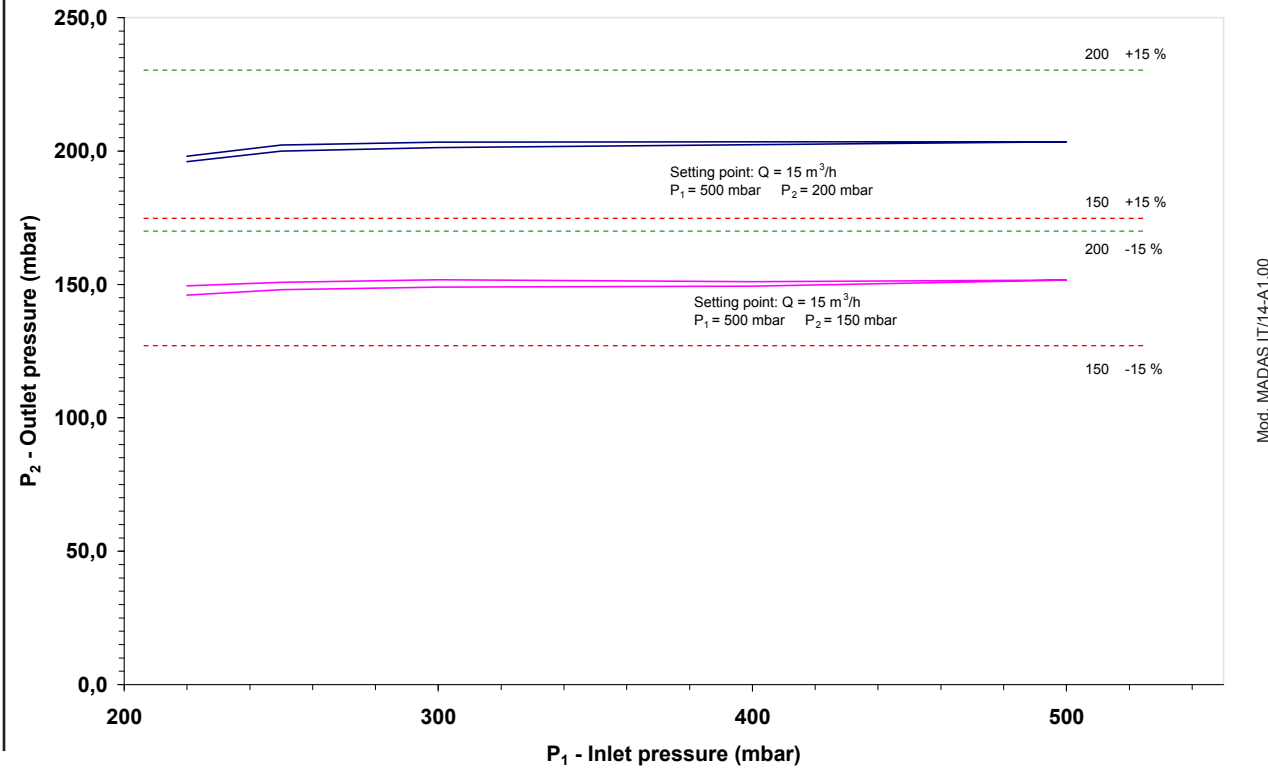
Graph of performance using inlet pressure variation - MO-0825 spring - DN 25



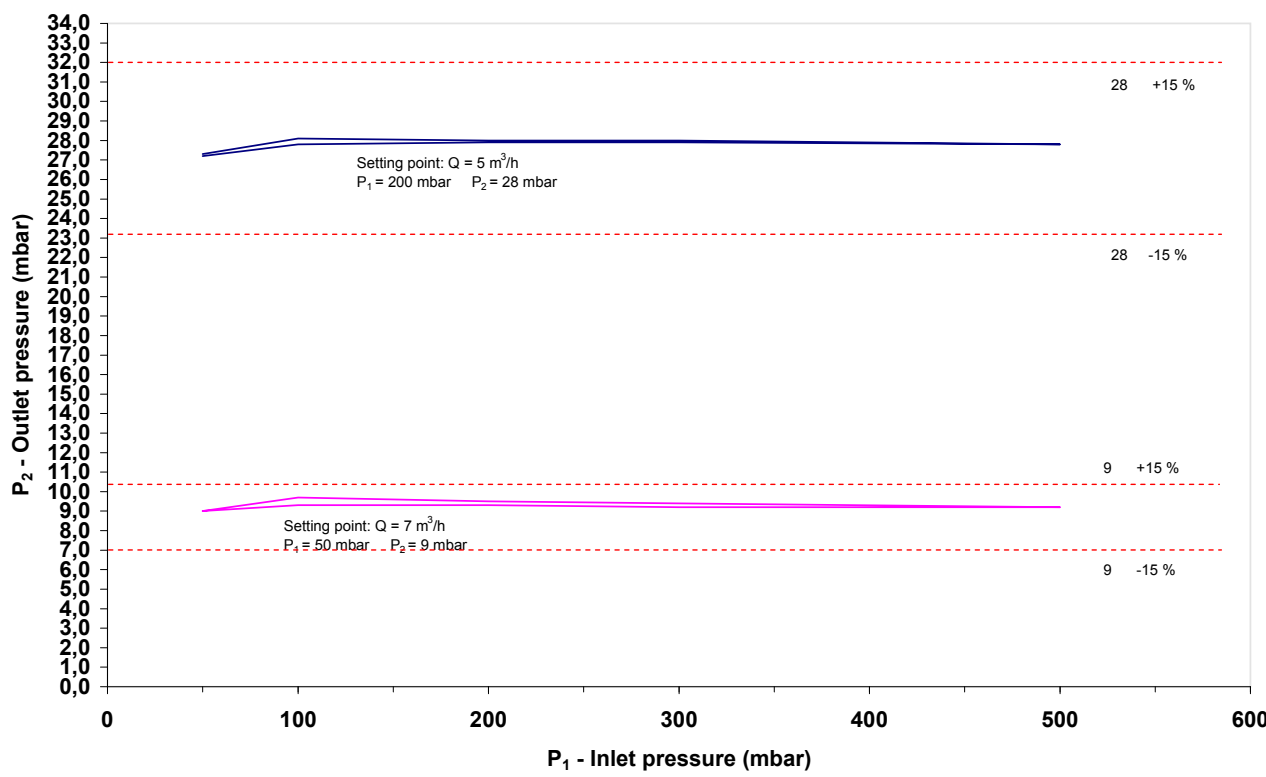
Graph of performance using inlet pressure variation - MO-0900 springs - DN 25



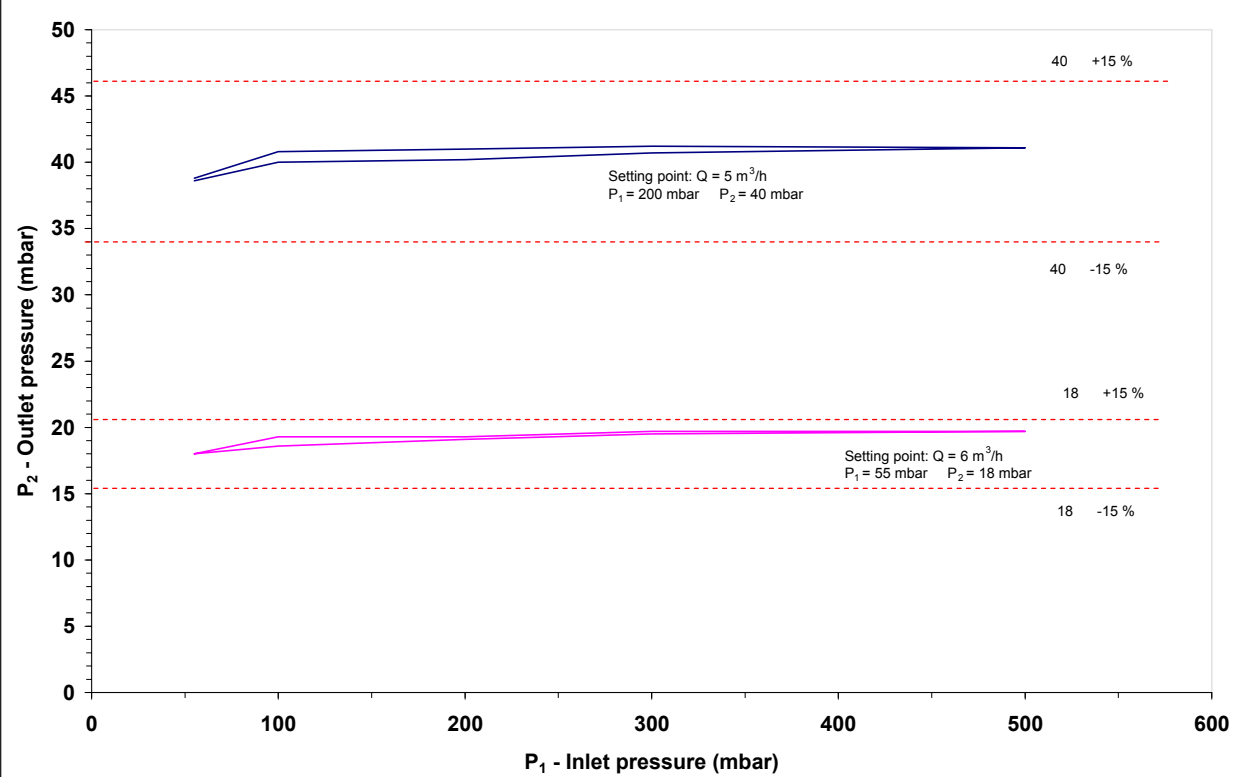
Graph of performance using inlet pressure variation - MO-0970 spring - DN 25



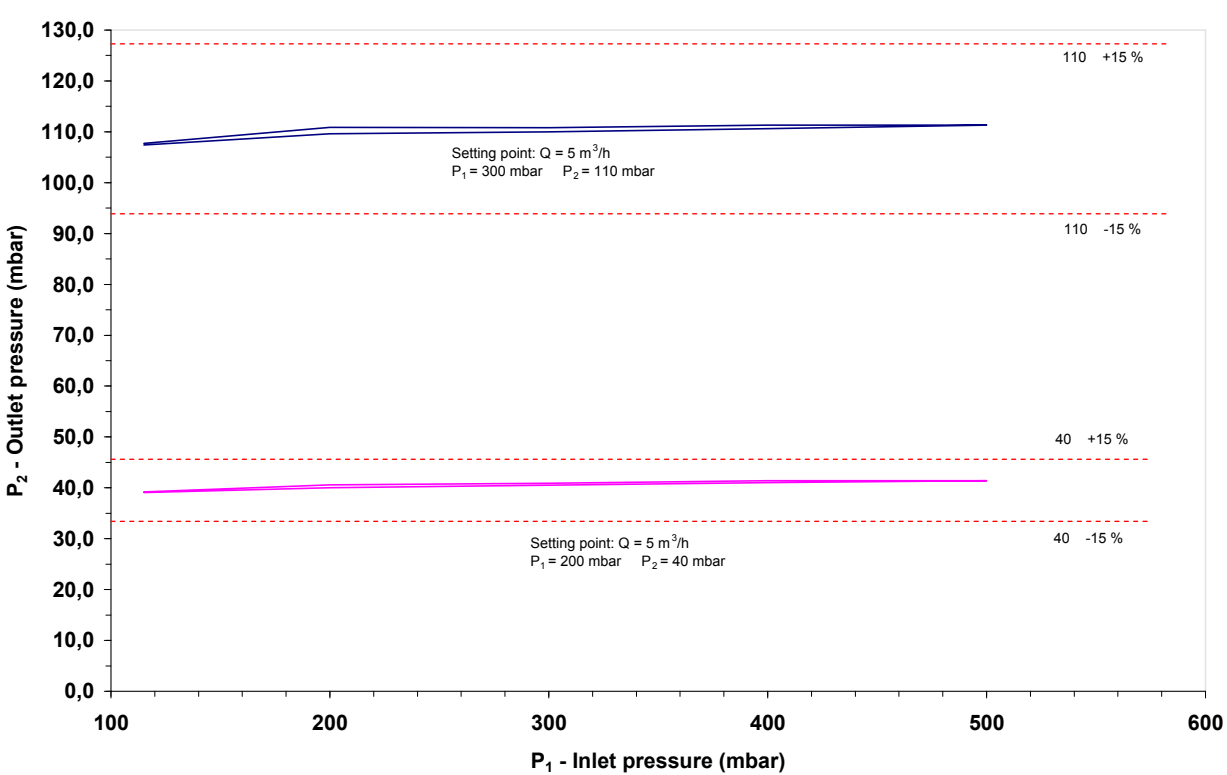
Graph of performance using inlet pressure variation - MO-0402 spring - DN 15



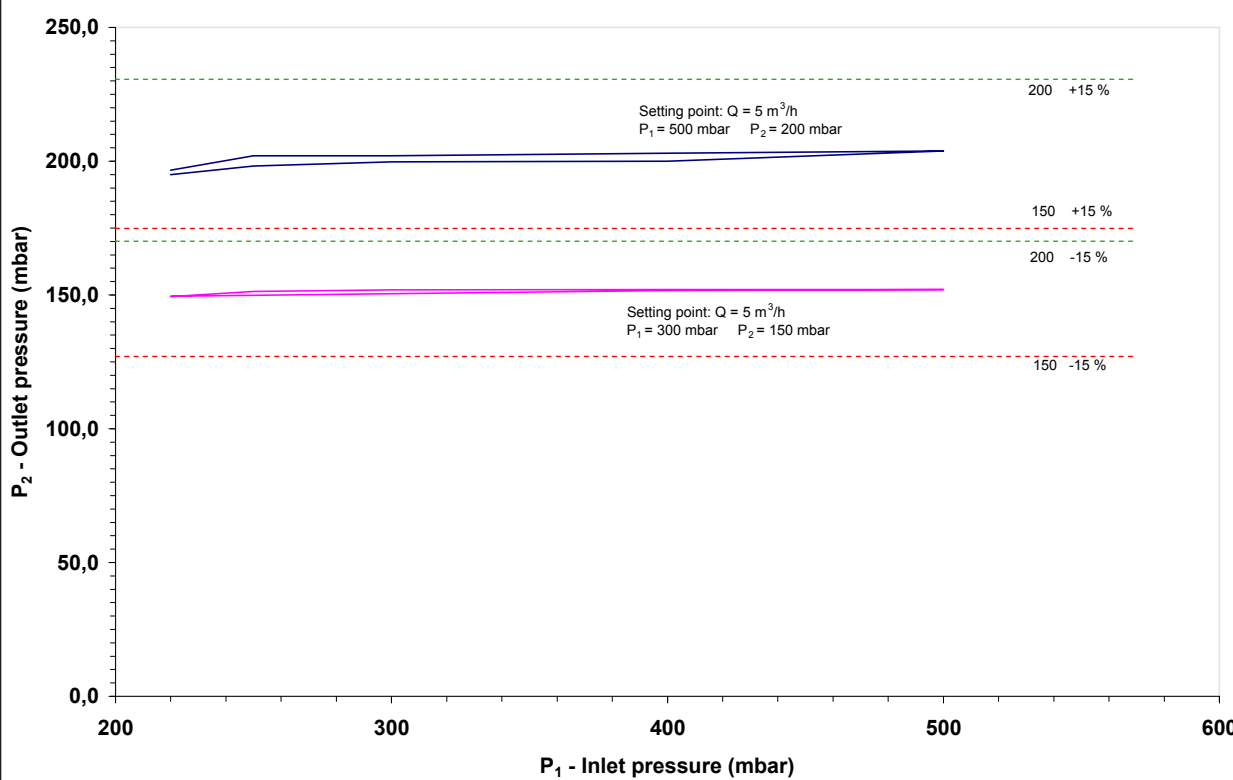
Graph of performance using inlet pressure variation - MO-0500 spring - DN 15



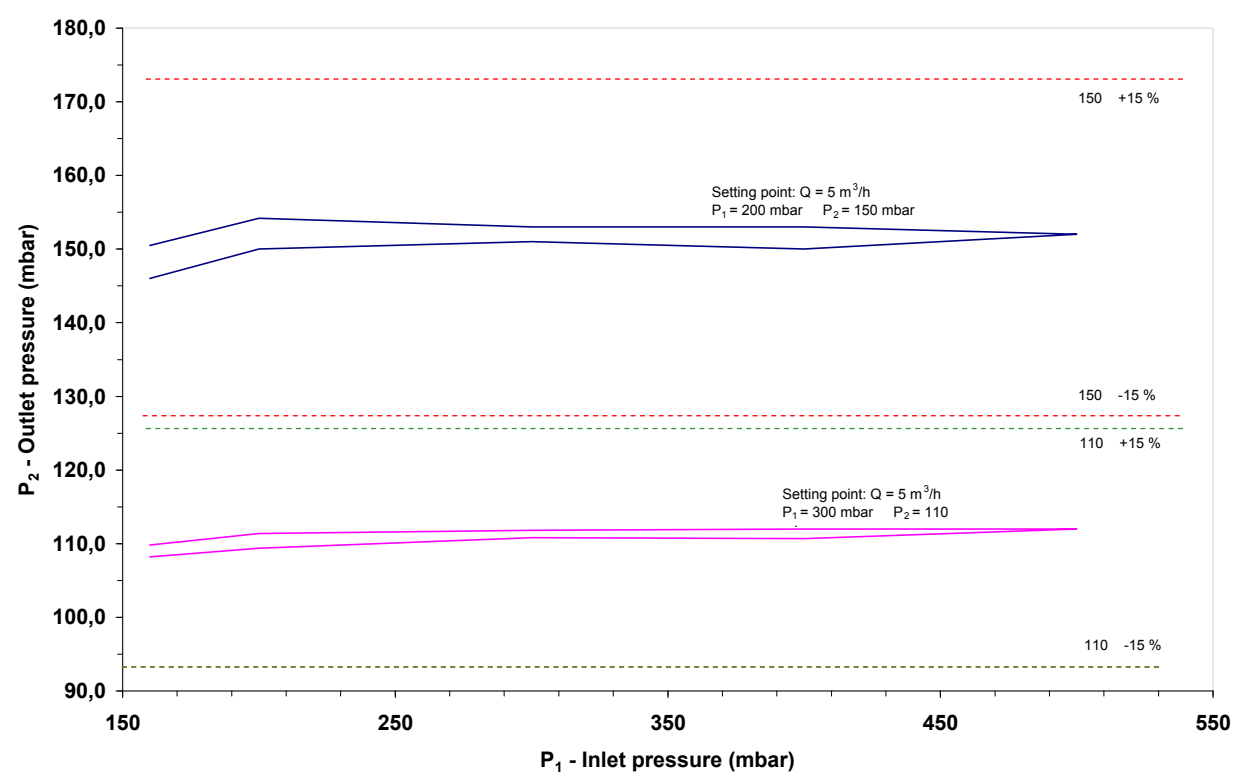
Graph of performance using inlet pressure variation - MO-0825 spring - DN 15



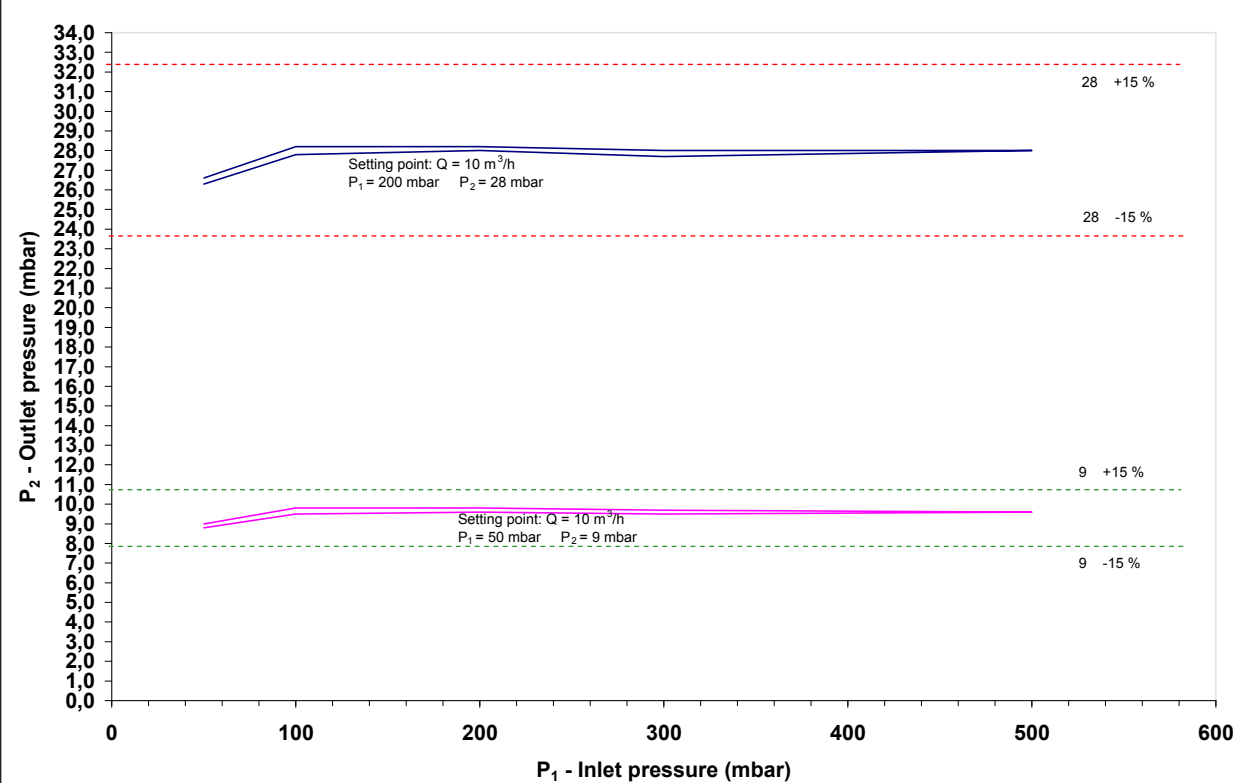
Graph of performance using inlet pressure variation - MO-0970 spring - DN 15



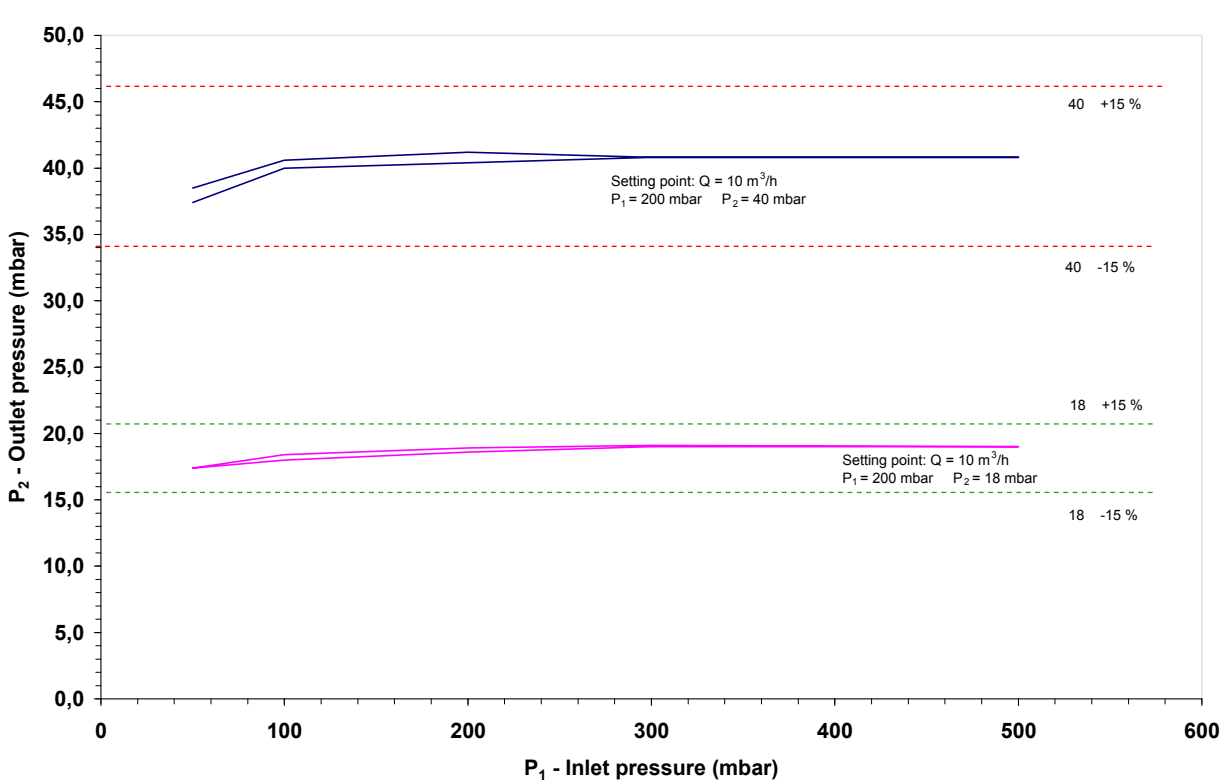
Graph of performance using inlet pressure variation - MO-0900 springs - DN 15



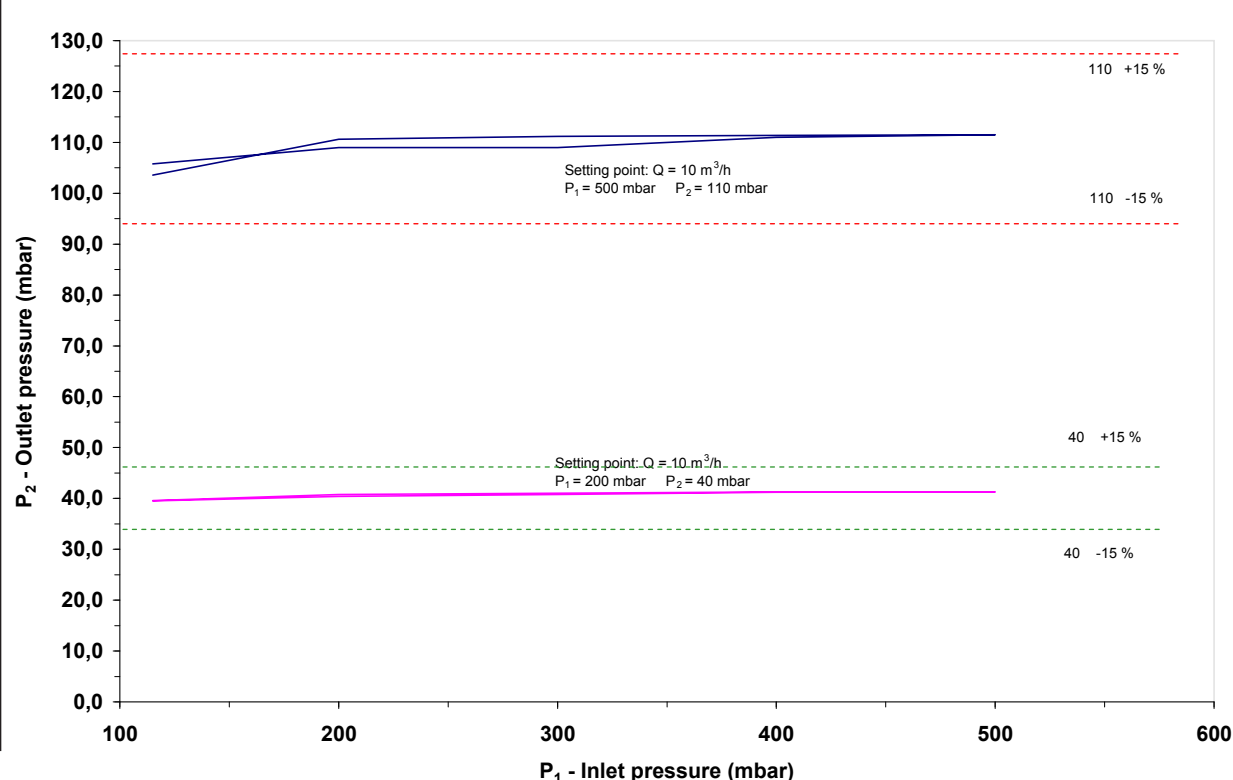
Graph of performance using inlet pressure variation - MO-0402 spring - DN 20



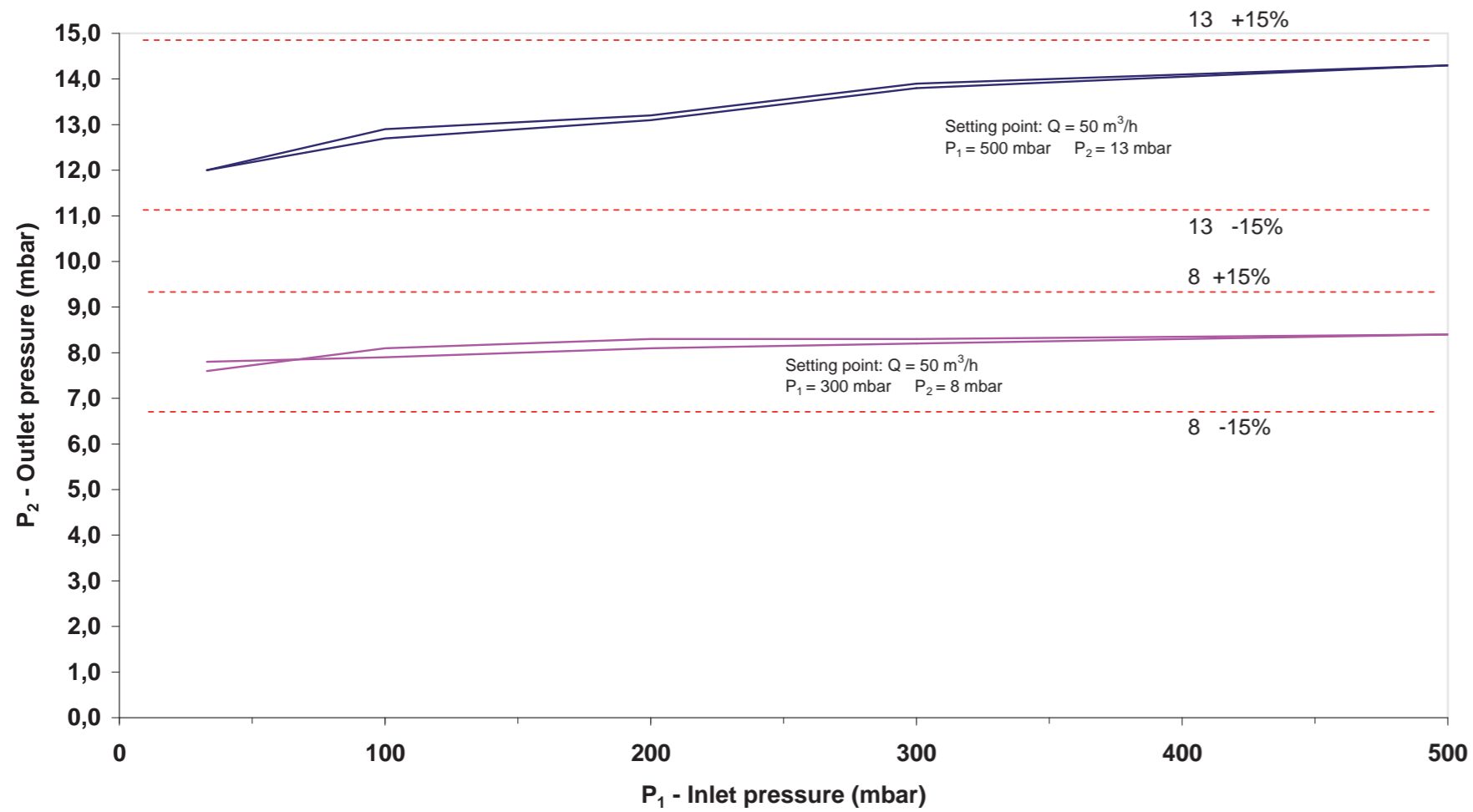
Graph of performance using inlet pressure variation - MO-0500 spring - DN 20



Graph of performance using inlet pressure variation - MO-0825 spring - DN 20



Graph of performance using inlet pressure variation - MO-0500 spring - DN 32-40-50



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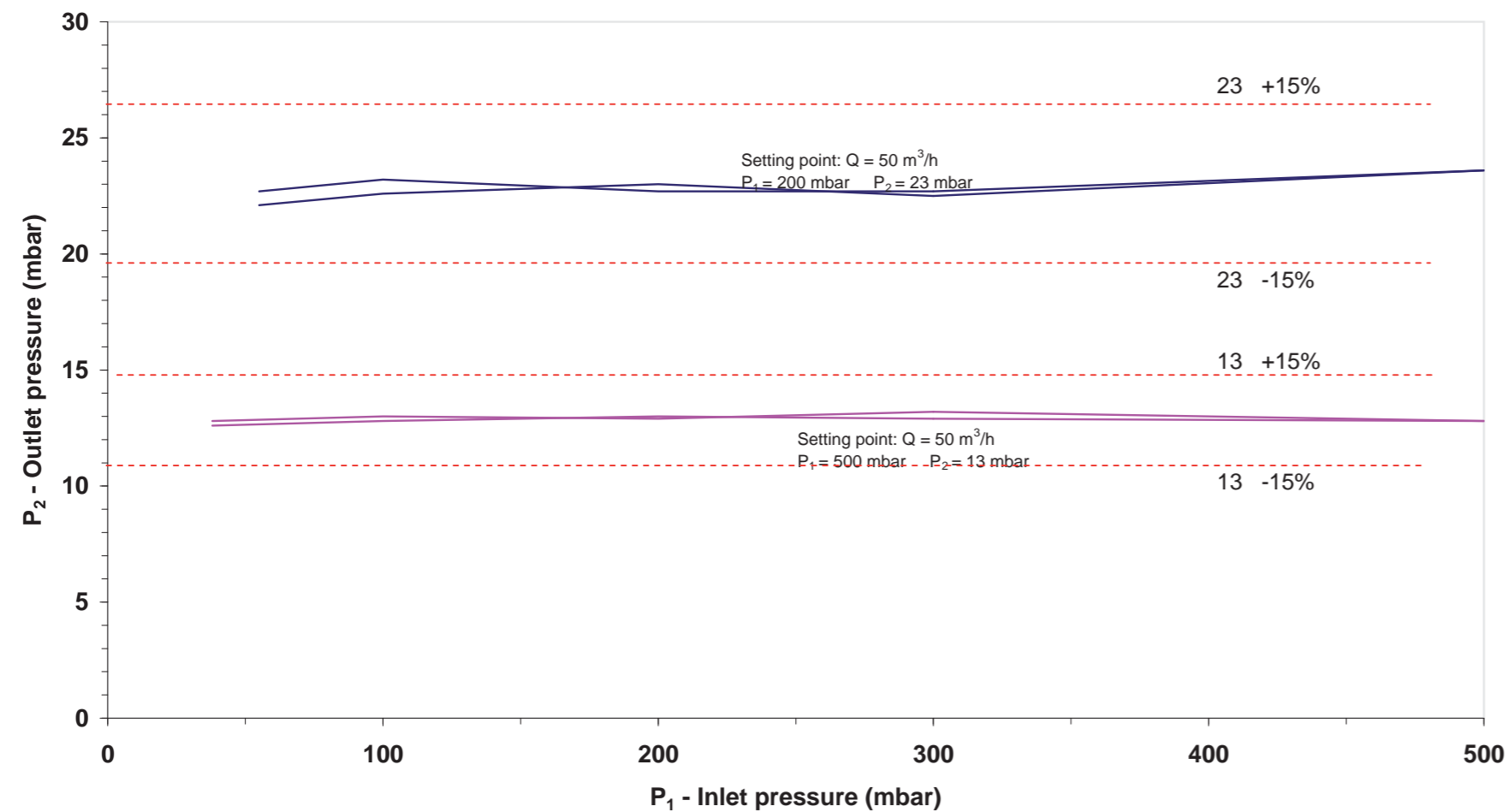
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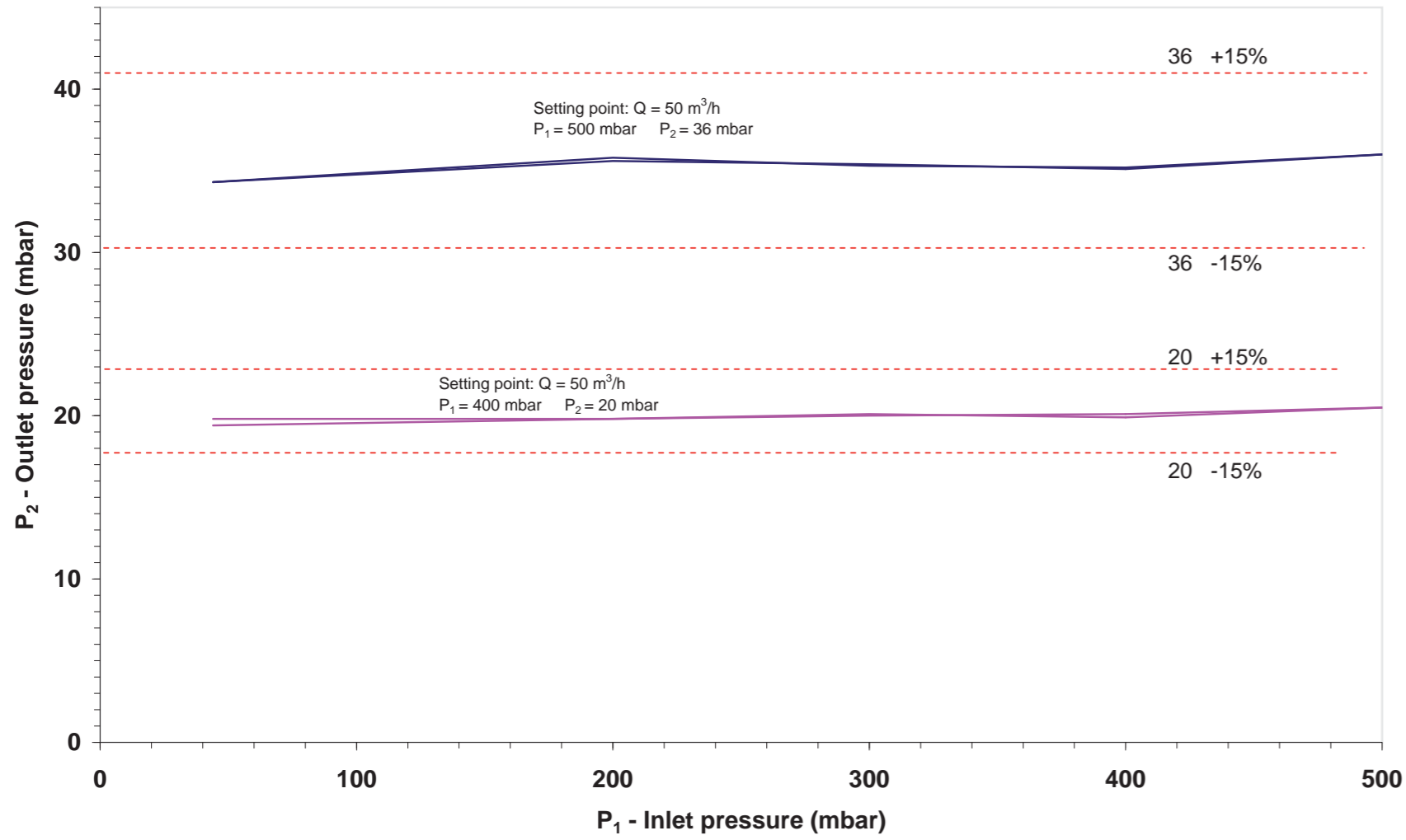
Graph of performance using inlet pressure variation - MO-0800 spring - DN 32-40-50



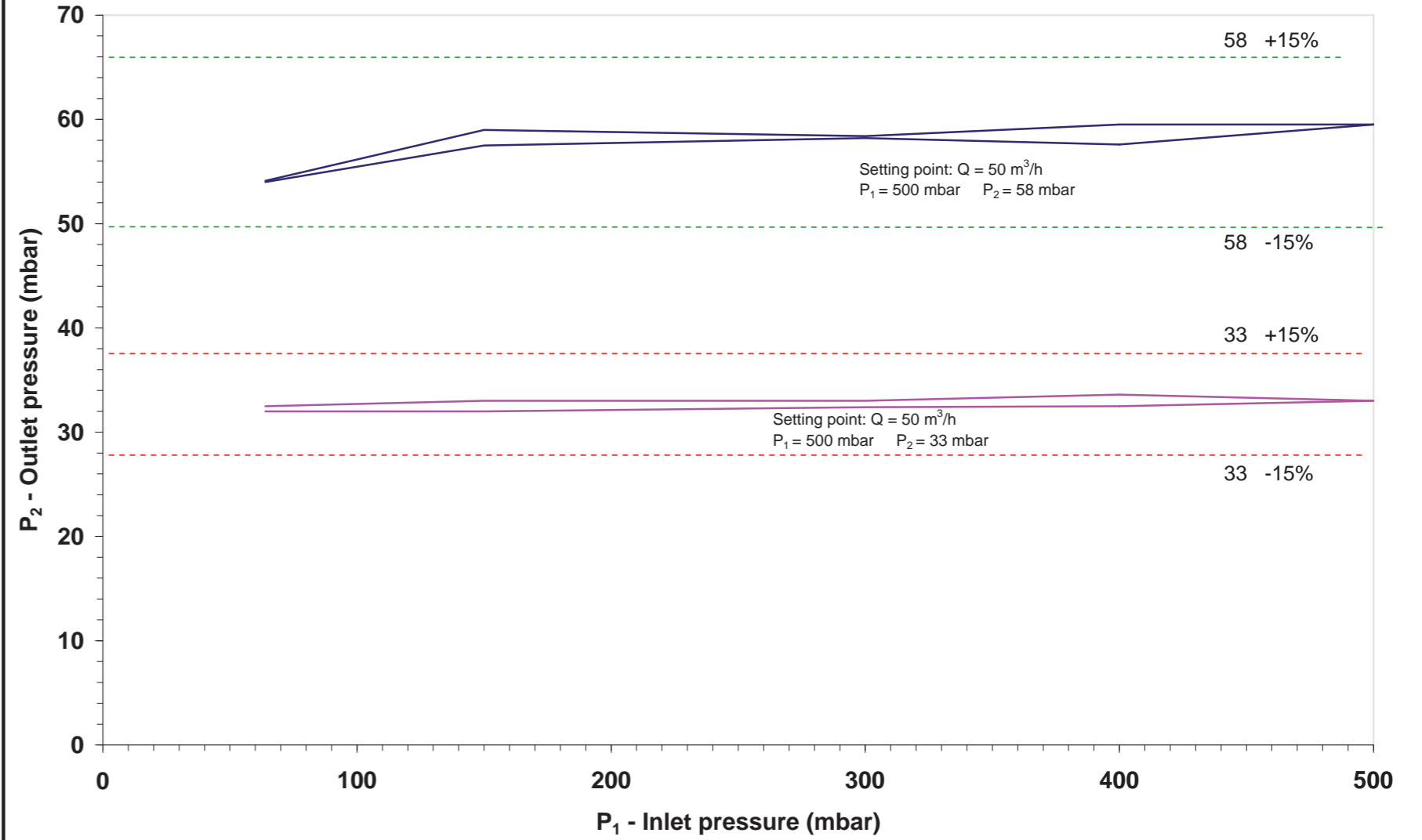
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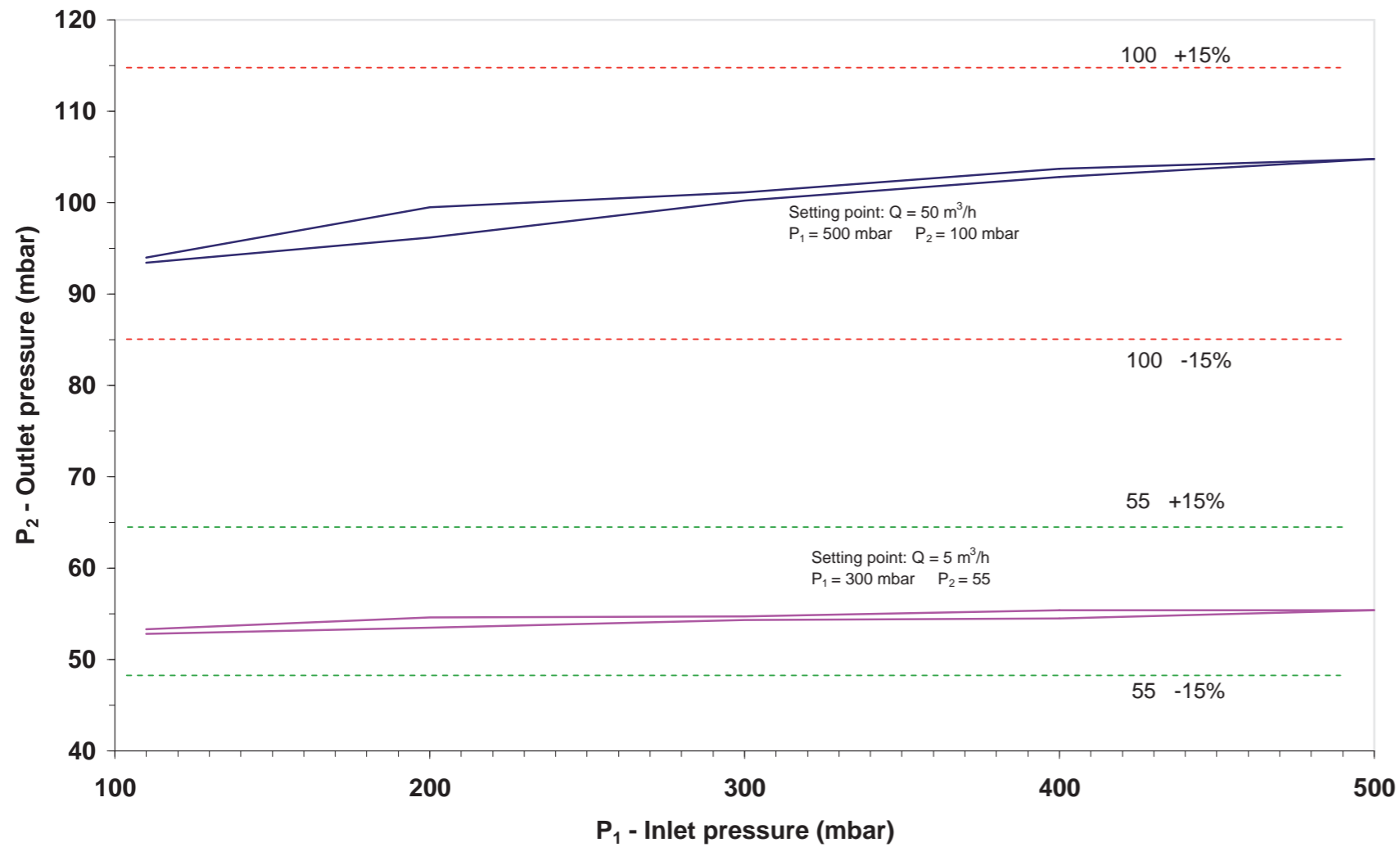
Graph of performance using inlet pressure variation - MO-0850 spring - DN 32-40-50



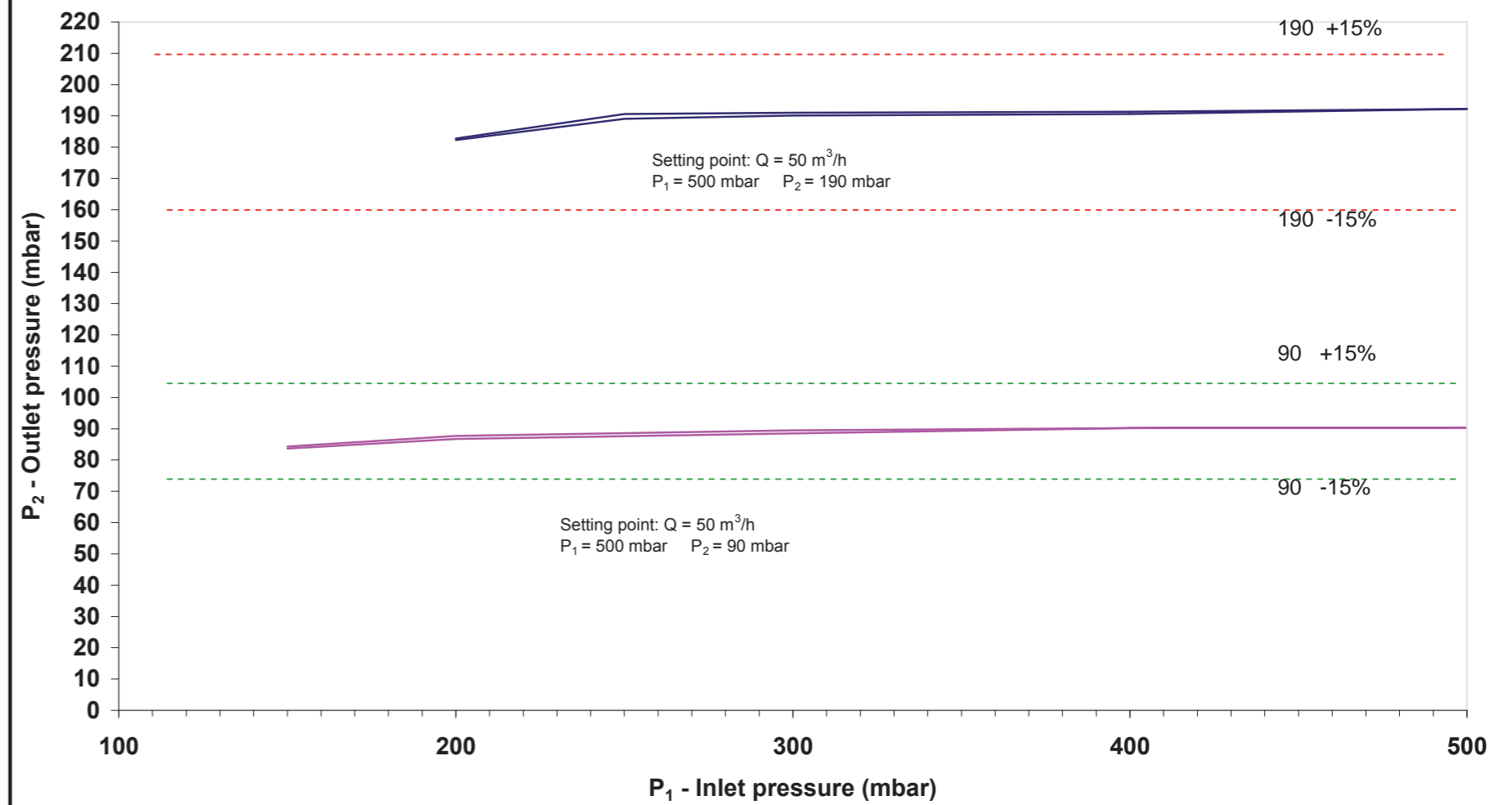
Graph of performance using inlet pressure variation - MO-0970 spring - DN 32-40-50



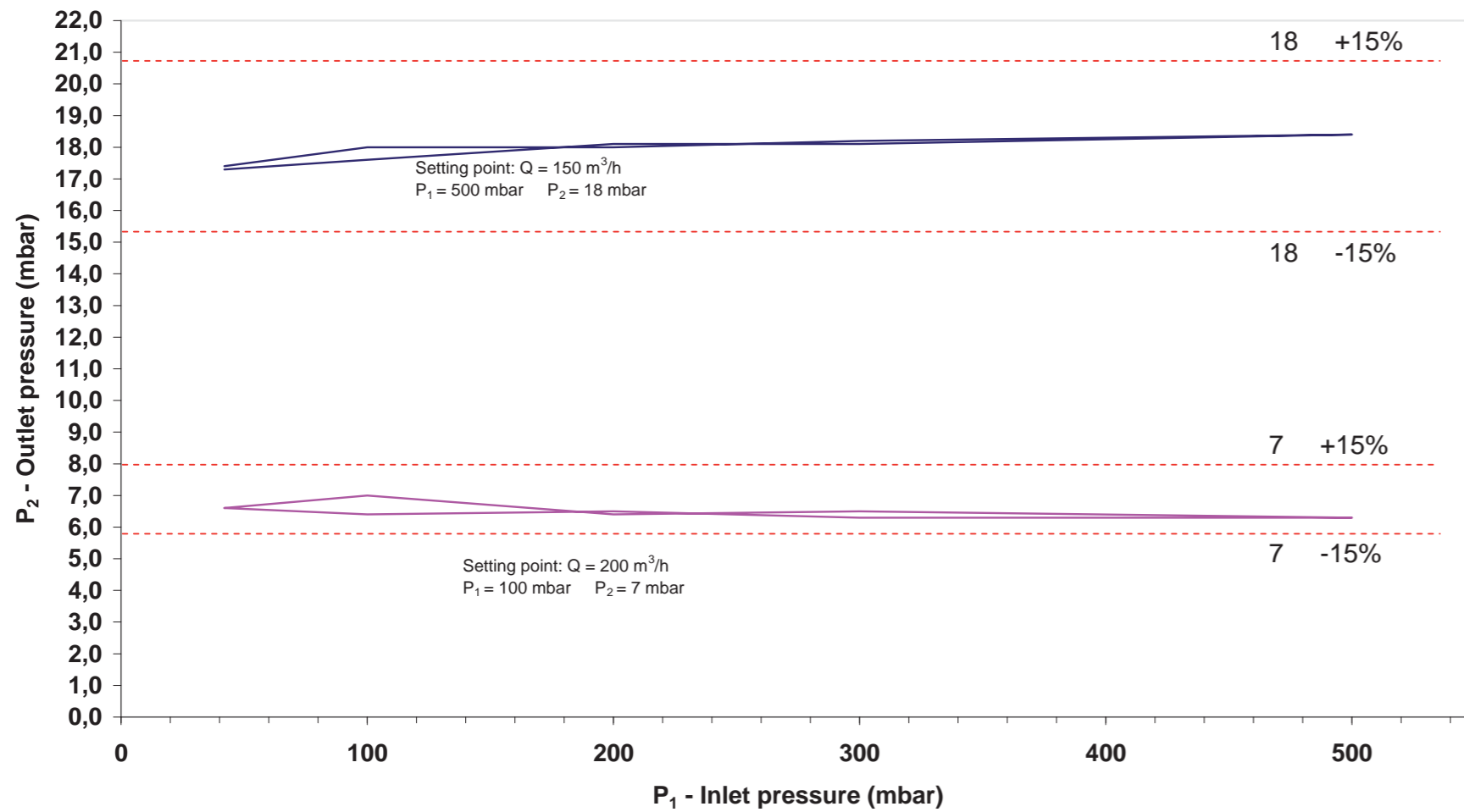
Graph of performance using inlet pressure variation - MO-1000 springs - DN 32-40-50



Graph of performance using inlet pressure variation - MO-1370 spring - DN 32-40-50



Graph of performance using inlet pressure variation - MO-1070 spring - DN 65-80



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Omologazione CE secondo EN 88-1  
EN 88-1 EC approved  
Homologation CE conforme à EN 88-1  
EG-Zulassung gemäß EN 88-1  
Homologación CE según EN 88-1

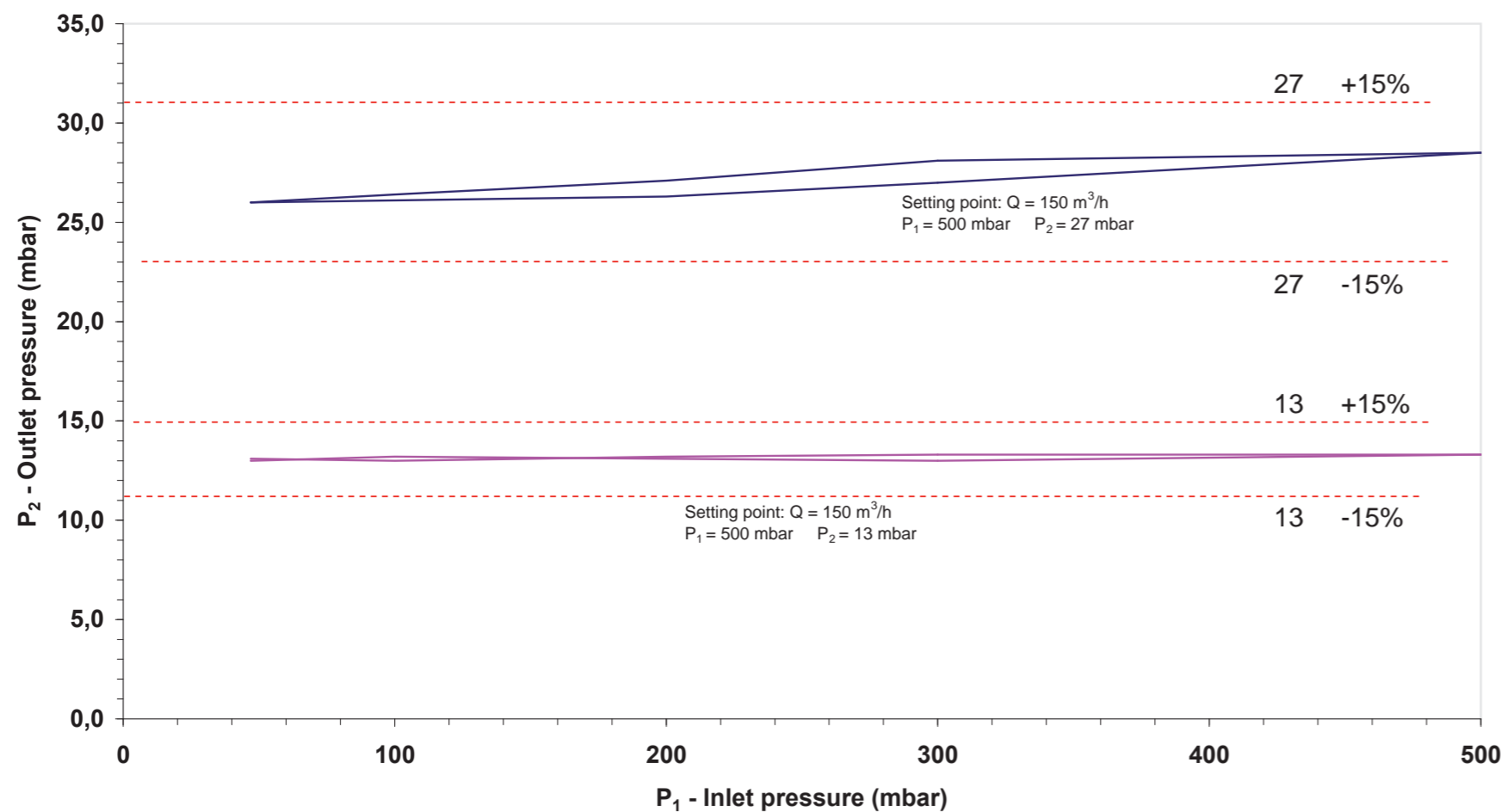
Conforme Direttiva Gas 2009/142/CE  
In conformity with Directive Gas 2009/142/EC  
Conforme à la Directive Gaz 2009/142/CE  
Im Einklang mit Gas Richtlinie 2009/142/EWG  
Conforme Directiva Gas 2009/142/CE

CE  $\text{Ex}$  II 2G - II 2D  
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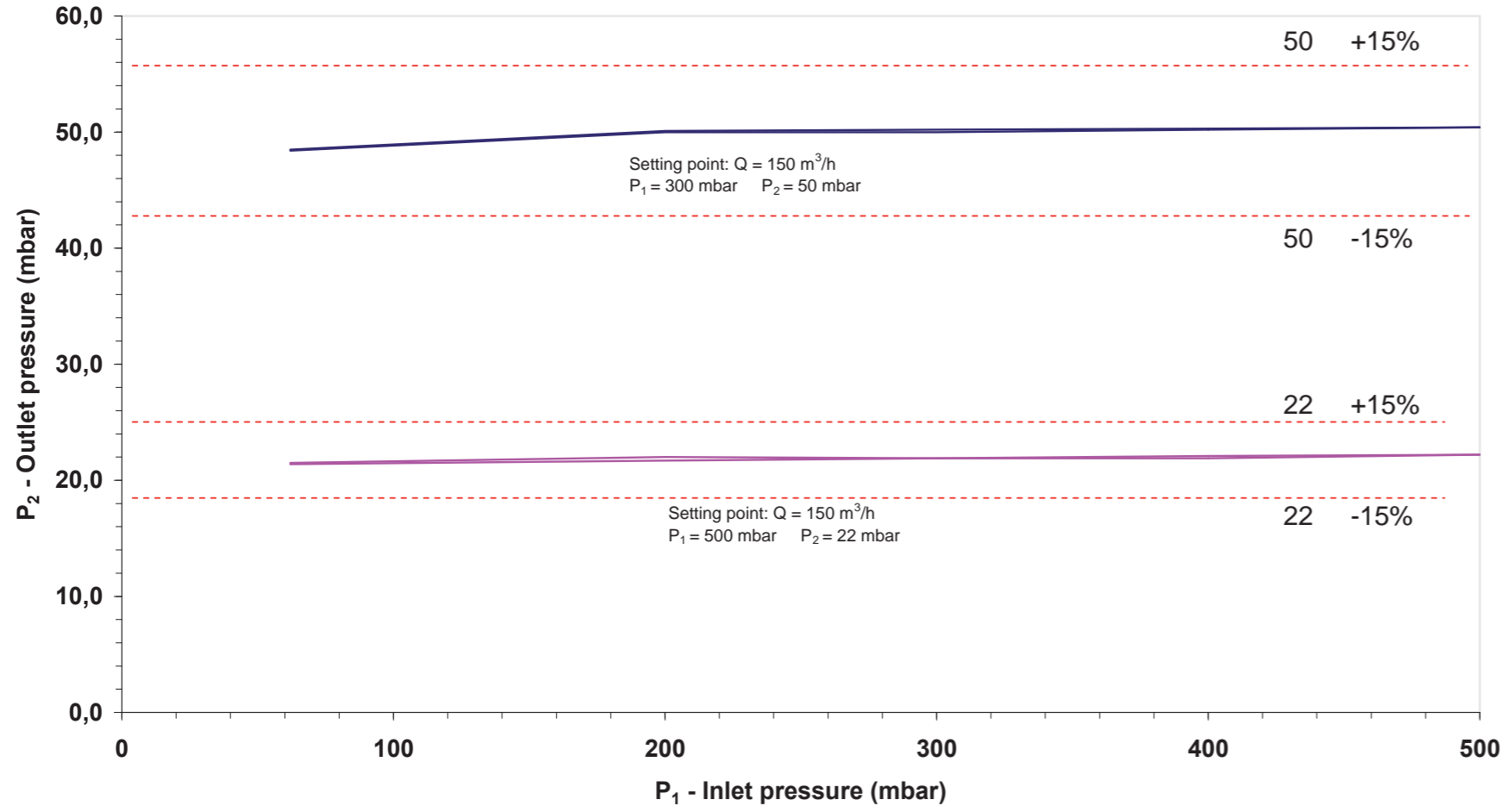
CE 0051

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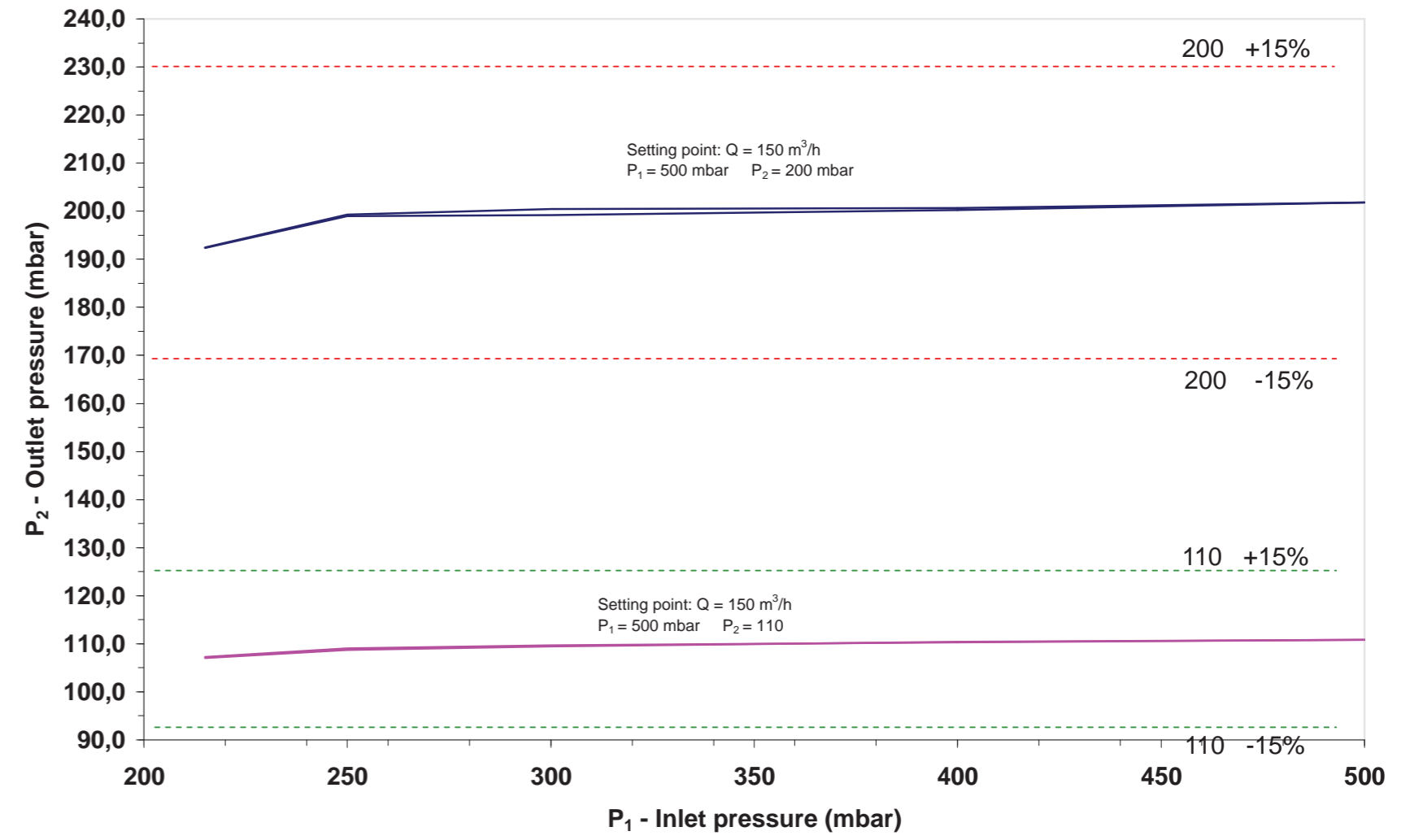
Graph of performance using inlet pressure variation - MO-1100 spring - DN 65-80



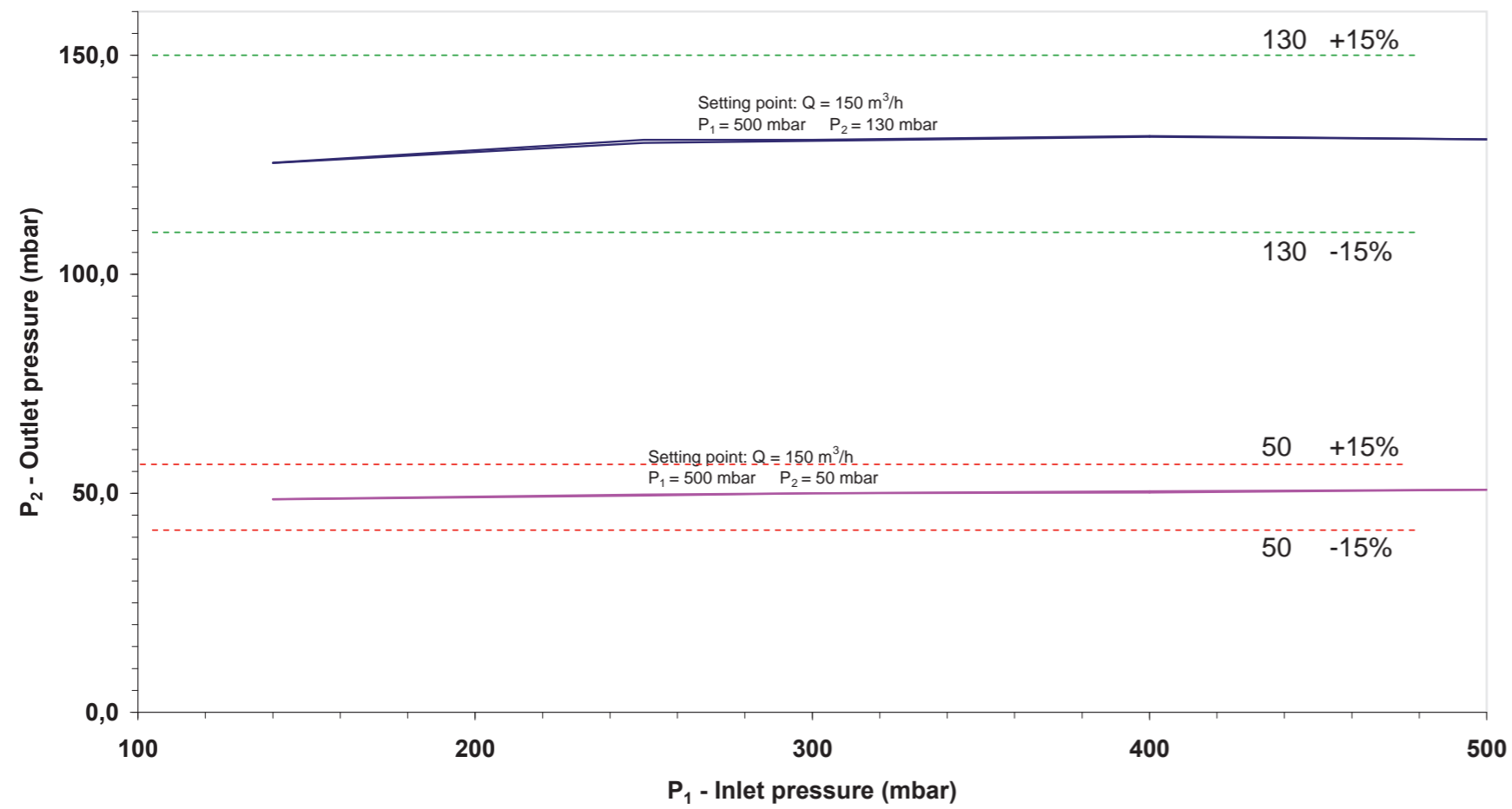
Graph of performance using inlet pressure variation - MO-1200 spring - DN 65-80



Graph of performance using inlet pressure variation-MO-1400+MO-1800 springs  
DN 65-80

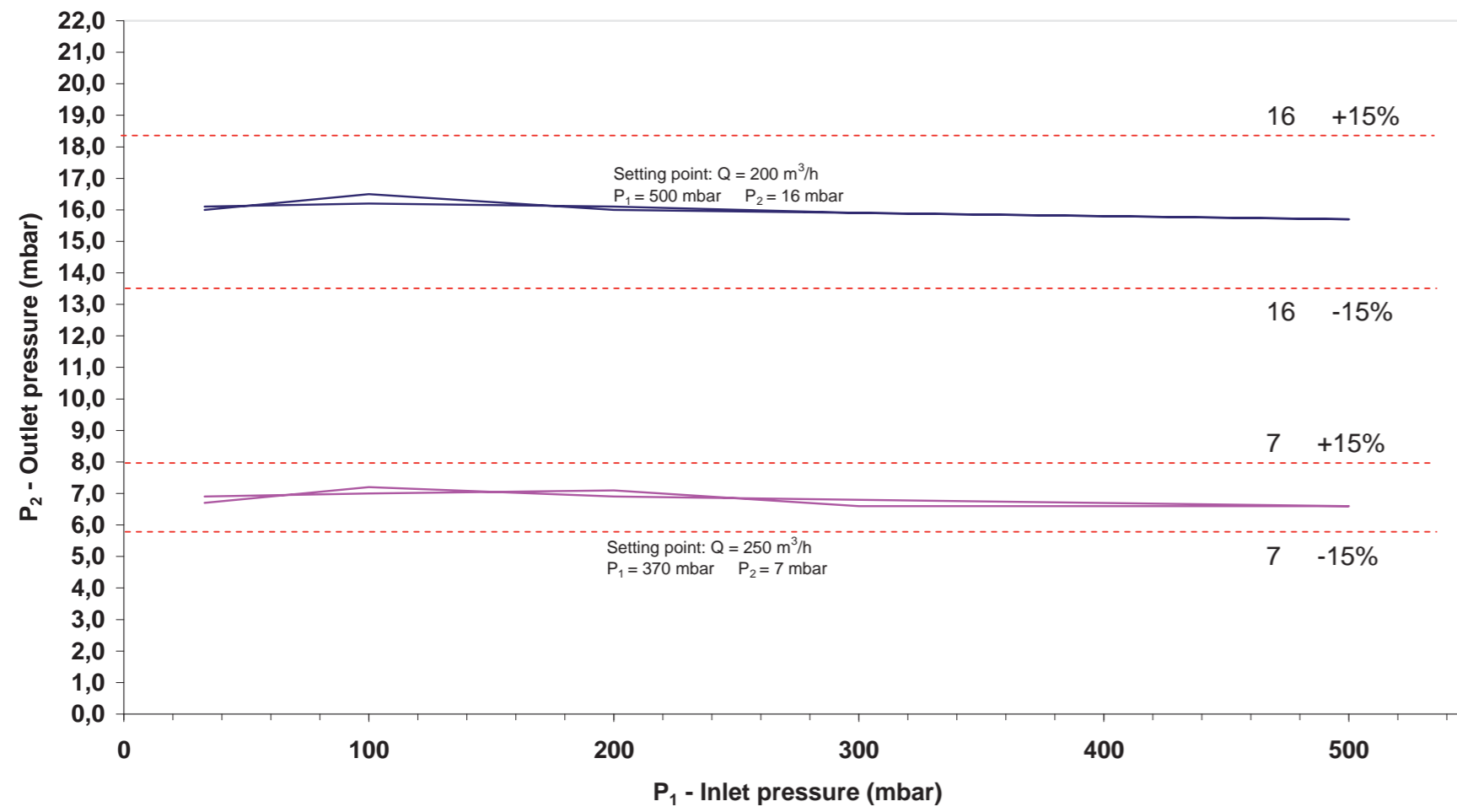


Graph of performance using inlet pressure variation - MO-1400 spring - DN 65-80





Graph of performance using inlet pressure variation - MO-1070 spring - DN 100



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EN 88-1 EC approved  
Homologation CE conforme à EN 88-1  
EG-Zulassung gemäß EN 88-1  
Homologación CE según EN 88-1

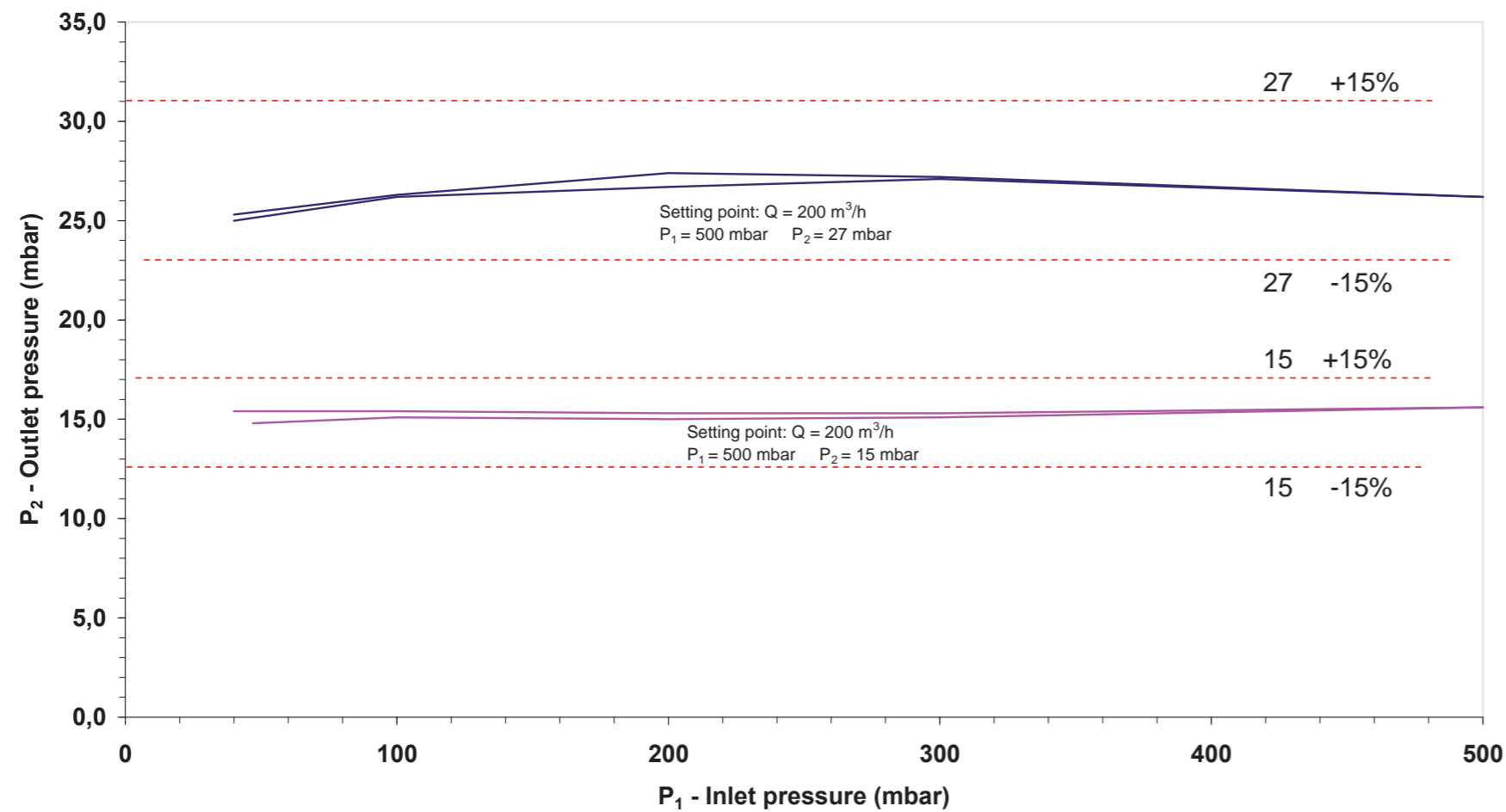
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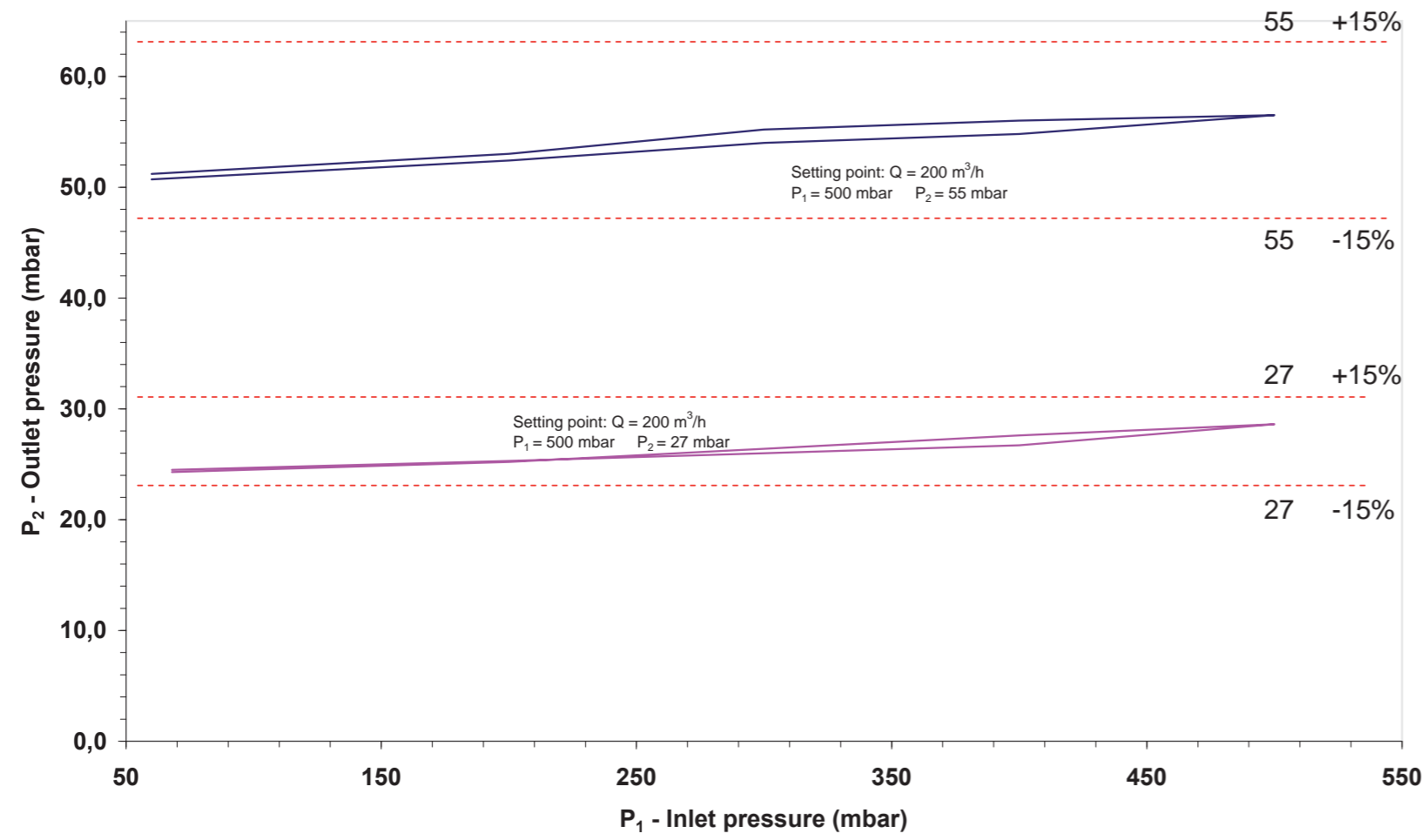
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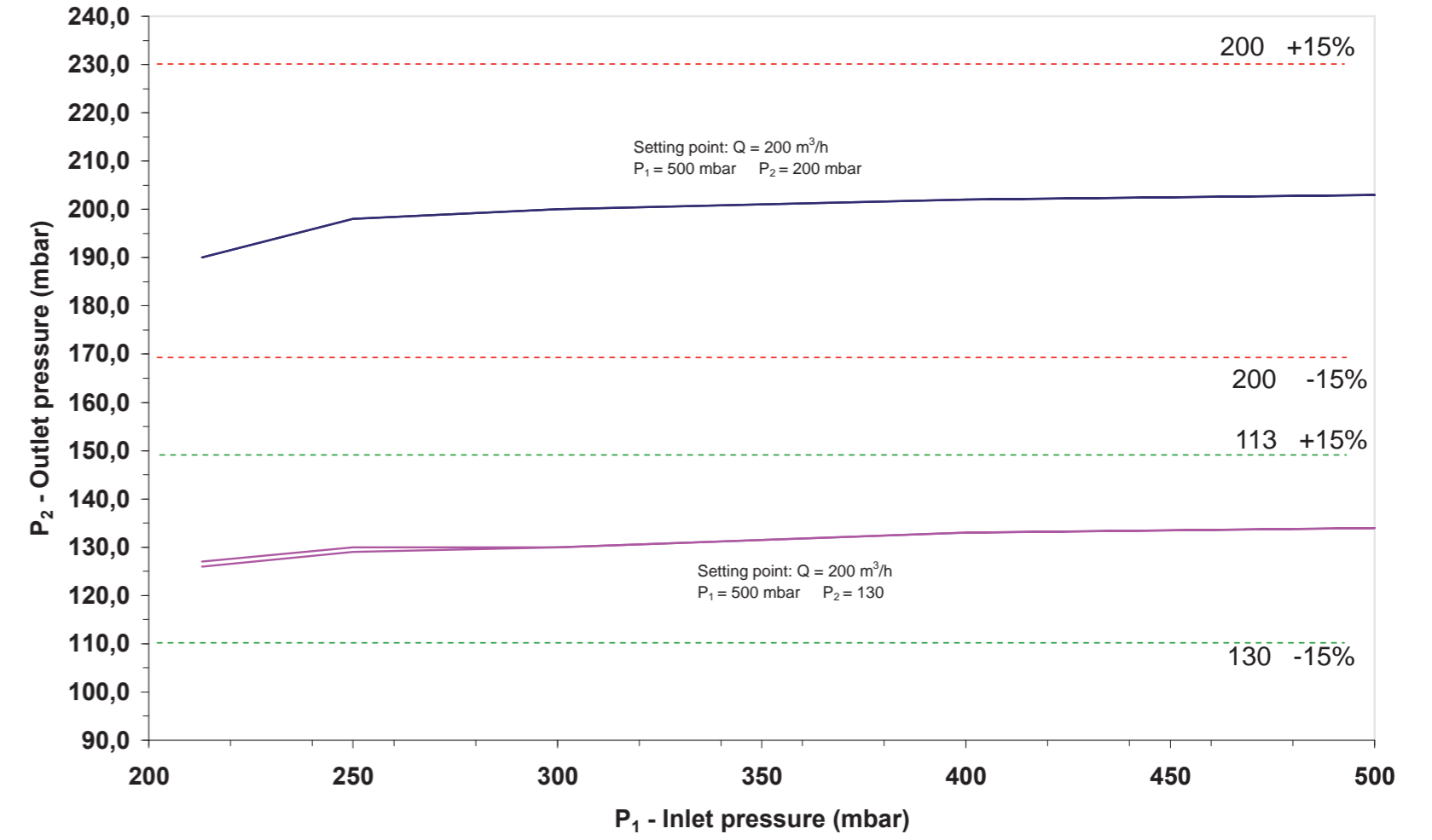
Graph of performance using inlet pressure variation - MO-1100 spring - DN 100



Graph of performance using inlet pressure variation - MO-1200 spring - DN 100



Graph of performance using inlet pressure variation-MO-1400+MO-1800 springs-DN 100



Graph of performance using inlet pressure variation - MO-1400 spring - DN 100

