

# 9555H

Valvola di bilanciamento in ghisa sferoidale ad orifizio variabile



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Valvola di bilanciamento in ghisa sferoidale ad orifizio variabile  
Flangiato PN25 secondo EN1092-2 (ex DIN2533)  
Scartamento secondo EN558-1 serie 1 (ex DIN3202 F1)  
Progettata secondo BS7350  
Prese di pressione incluse

PN25

Esente marcatura CE per DN≤200 (cat. secondo Art. 4.3 Dir. 2014/68/UE)

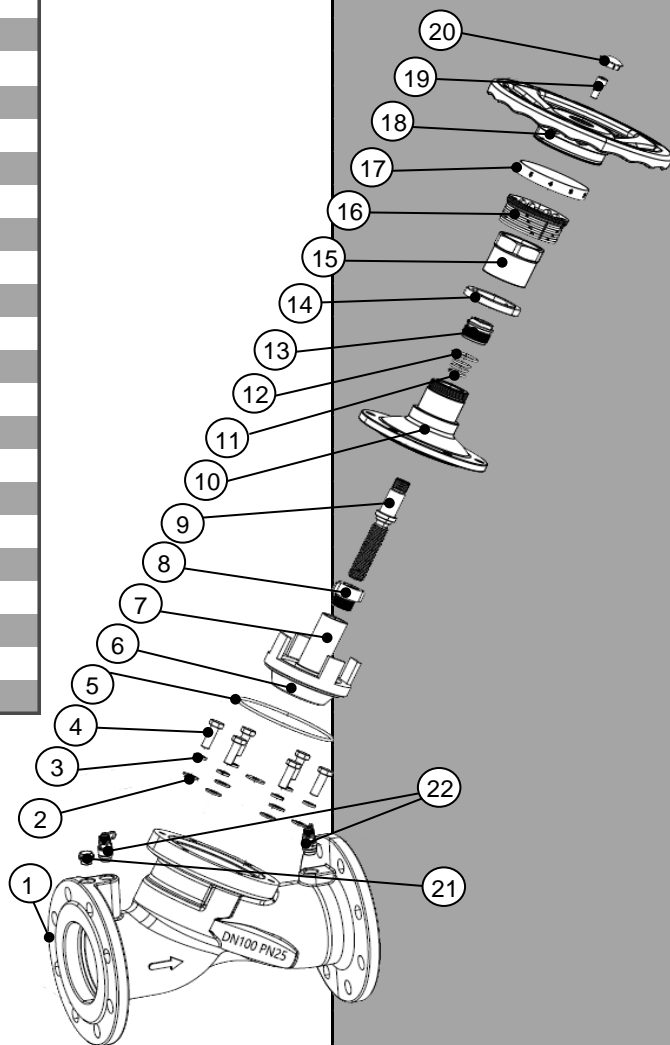
Condizioni di esercizio

- Idoneo per: acqua, da 0°C a +110°C  
oltre 100°C solo con additivi che prevengano l'ebollizione  
(utilizzabili miscele di glicole etilenico o glicole propilenico fino al 50%)
- Non idoneo per: gas gruppo 1 e 2, liquidi gruppo 1 (Dir. 2014/68/UE)



## PARTLIST

N.	Componente	Materiale	Norma
1	Corpo	Ghisa sferoidale	EN-GJL-450-10
2	Rondella	Acciaio inox	SS304
3	Rondella elastica	Acciaio inox	SS304
4	Viti	Acciaio inox	SS304
5	O-ring cor.capp.	EPDM	-
6	Disco guarn.	EPDM	-
7	Cono di bilanc.	Ghisa sferoidale	EN-GJL-450-10
8	Dado dello stelo	Ottone	-
9	Stelo	Acciaio inox	AISI 420
10	Cappello	Ghisa sferoidale	EN-GJL-450-10
11	O-ring stelo	EPDM	-
12	O-ring	EPDM	-
13	Dado	Ottone	-
14	Limite indicatore	Alluminio	-
15	Indicator orientato	PPS	-
16	Indicatore	ABS	-
17	Anello numerato	PP	-
18	Volantino	Ghisa sferoidale	EN-GJL-450-10
19	Vite fissaggio vol.	Acciaio inox	SS304
20	Tappo volantino	ABS	-
21	Tappo	Ottone	-
22	Presca	Ottone	-



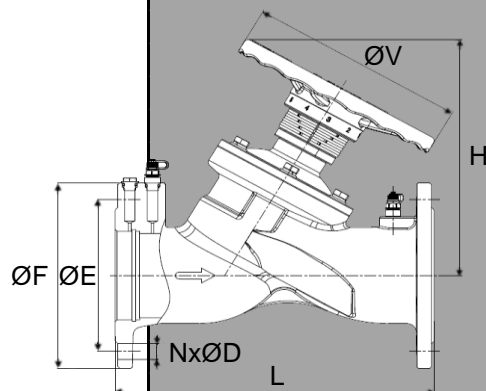
221025

## DIMENSIONI

DN	ØF [mm]	ØE [mm]	NxØD [mm]	L [mm]	H [mm]	ØV [mm]	Peso [kg]	Portate [l/s]
065	185	145	4x19	290	340	190	14,7	3,02-6,95 <sup>1</sup>
080	200	160	8x19	310	360	190	17,0	6,40-15,36 <sup>1</sup>
100	235	190	8x23	350	390	240	24,3	10,85-26,04 <sup>1</sup>
125	270	220	8x28	400	459	290	32,7	16,85-39,75 <sup>1</sup>
150	300	250	8x28	480	514	290	44,8	23,71-56,91 <sup>1</sup>
200	360	310	12x28	600	628	350	83,0	41,86-100,47 <sup>1</sup>
250	425	370	12x31	730	743	420	123,0	66,58-156,78 <sup>1</sup>
300	485	430	16x31	850	820	420	168,0	94,16-255,99 <sup>1</sup>

<sup>1</sup>Intervallo di applicabilità portate consigliato (BS7350).

Se utilizzati manometri differenziali diversi da quelli proposti da VIR verificare che la portata di applicabilità minima sia compatibile con la sensibilità dello strumento di misura (c.f.r. paragrafo misura portate)



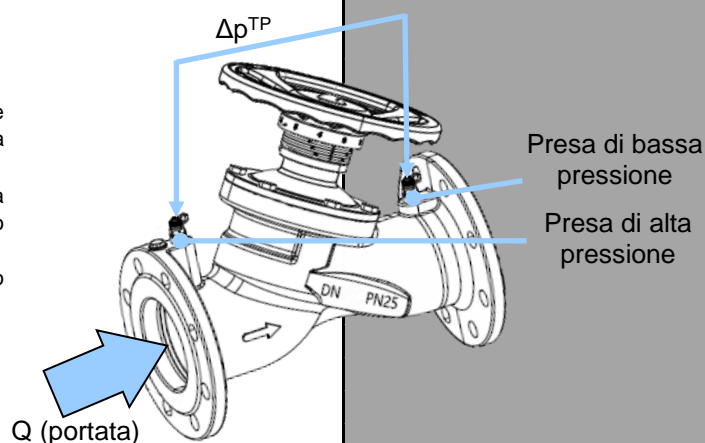
## MISURA PORTATE

Funzione che lega portata Q (in l/s) e Δp misurata alle prese di pressione (in kPa). Il K<sub>v</sub> varia in funzione della regolazione del volantino come da tabella nella pagina seguente.

La portata minima misurabile per ogni diametro può essere calcolata utilizzando nella formula la minima Δp misurabile dal manometro differenziale utilizzato.

Il design delle valvole è tuttavia ottimizzato per il funzionamento all'interno del range precedentemente consigliato e indicato dal BS7350.

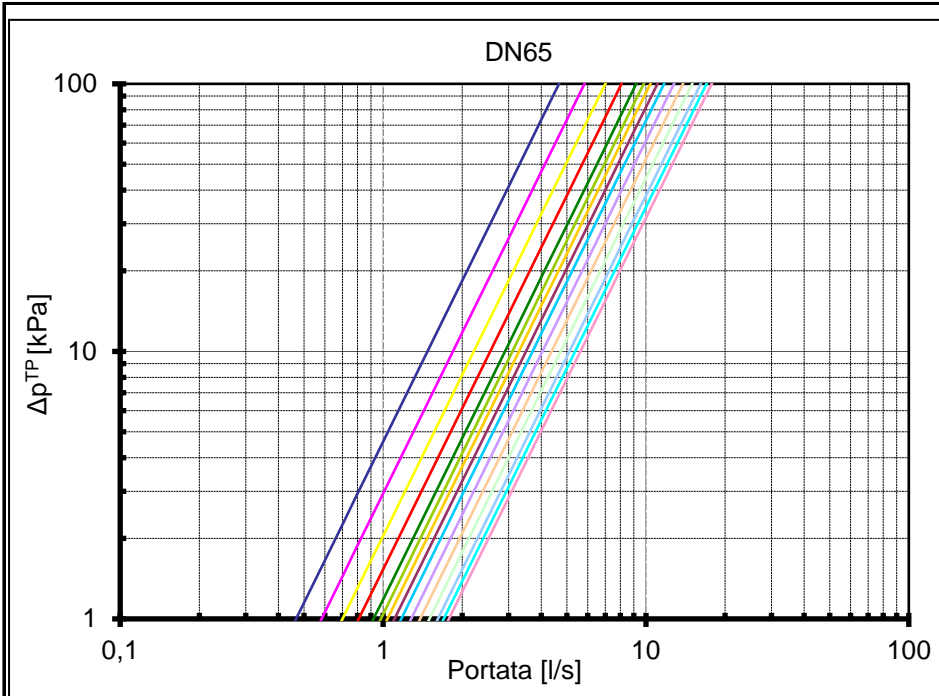
$$Q = \frac{K_v \cdot \sqrt{\Delta p^{TP}}}{36}$$



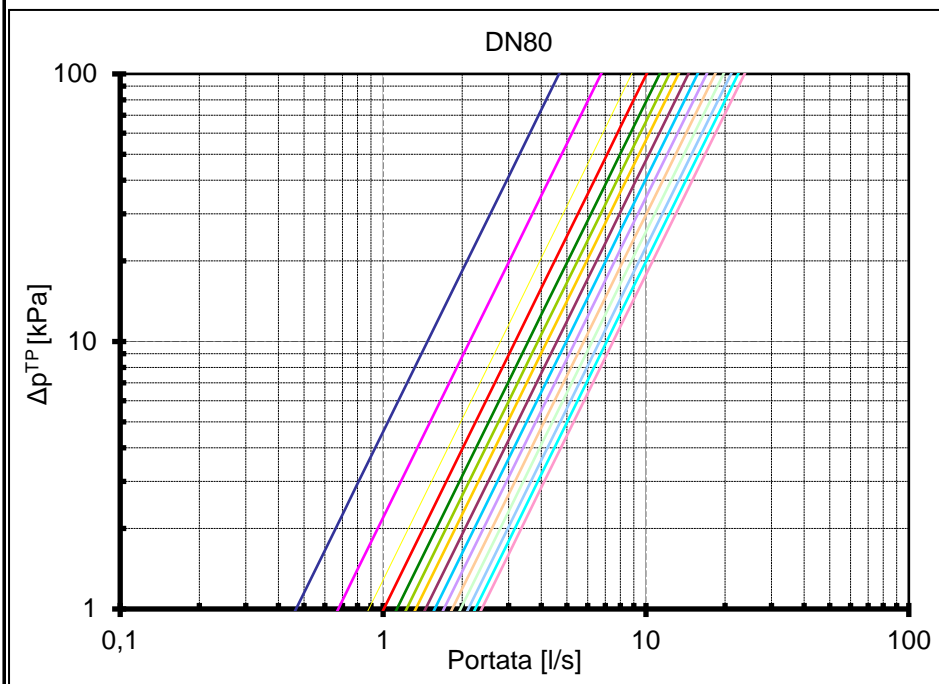
Regolaz. volantino	K <sub>v</sub> [m <sup>3</sup> /h @ 1bar]							
	065	080	100	125	150	200	250	300
1,0	16,8	16,8	25,1	39,7	77,2	134,0	104,0	130,0
1,5	21,0	24,3	34,5	53,7	96,8	158,0	130,0	173,0
2,0	25,2	31,8	43,9	67,7	116,0	181,0	155,0	217,0
2,5	29,1	36,2	51,7	80,5	132,0	200,0	194,0	256,0
3,0	33,1	40,6	59,5	93,2	147,0	219,0	232,0	296,0
3,5	35,3	44,2	66,8	104,0	163,0	230,0	262,0	332,0
4,0	37,4	47,9	74,0	114,0	178,0	241,0	291,0	369,0
4,5	39,8	52,2	79,1	123,0	191,0	251,0	321,0	400,0
5,0	42,2	56,6	84,1	131,0	205,0	260,0	350,0	430,0
5,5	46,0	61,3	89,8	143,0	217,0	276,0	381,0	463,0
6,0	49,8	66,0	95,5	156,0	229,0	291,0	412,0	496,0
6,5	54,0	71,0	102,0	168,0	239,0	308,0	438,0	534,0
7,0	58,2	75,9	108,0	181,0	249,0	325,0	463,0	572
7,5	61,2	80,7	113,0	192,0	256,0	345,0	478,0	606
8,0	64,1	85,4	119,0	203,0	263,0	365,0	493,0	640
8,5	-	-	-	-	-	385,0	512,0	673
9,0	-	-	-	-	-	405,0	531	706
9,5	-	-	-	-	-	427,0	557	728
10,0	-	-	-	-	-	450,0	583	749
10,5	-	-	-	-	-	468,0	603	757
11,0	-	-	-	-	-	486,0	624	765
12,0	-	-	-	-	-	504,0	679	810
13,0	-	-	-	-	-	-	734	889
14,0	-	-	-	-	-	-	792	974
15,0	-	-	-	-	-	-	843	1044
16,0	-	-	-	-	-	-	912	1099



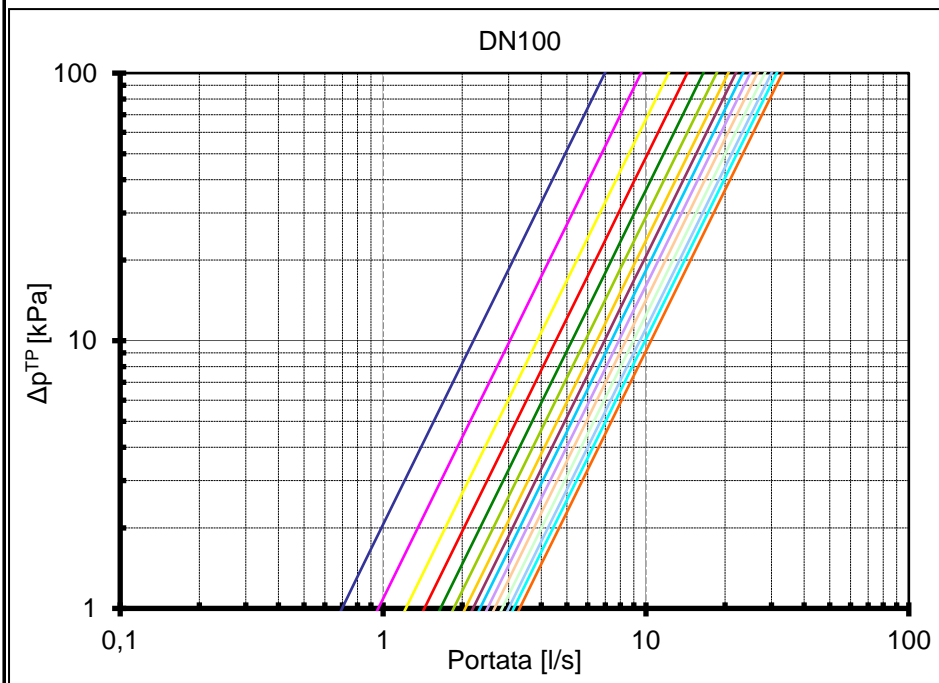
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- Regolazione  
volantino
- 1,0
  - 1,5
  - 2,0
  - 2,5
  - 3,0
  - 3,5
  - 4,0
  - 4,5
  - 5,0
  - 5,5
  - 6,0
  - 6,5
  - 7,0
  - 7,5
  - 8,0



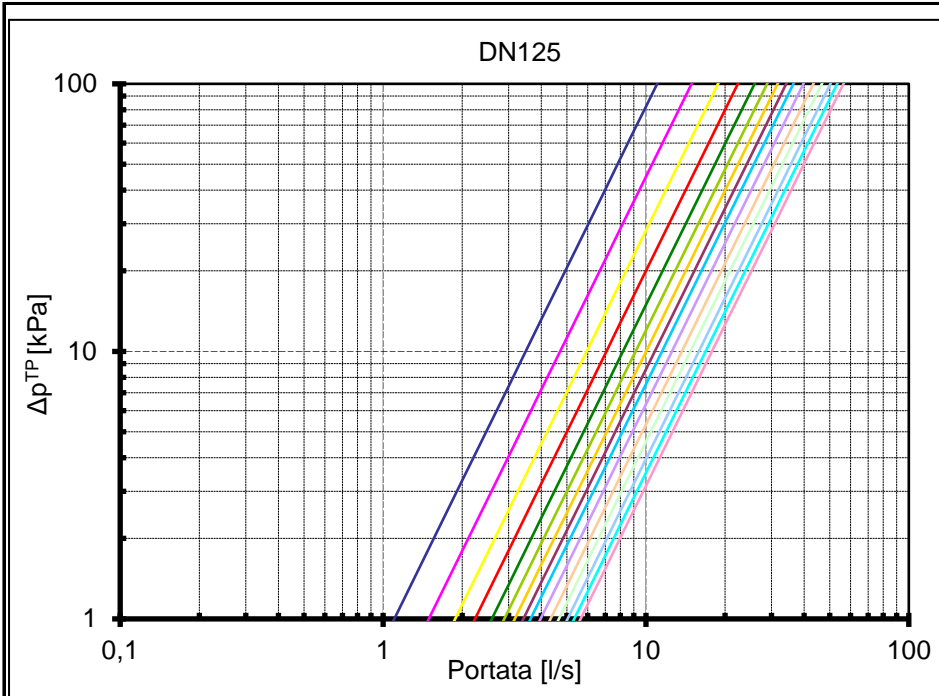
- Regolazione  
volantino
- 1,0
  - 1,5
  - 2,0
  - 2,5
  - 3,0
  - 3,5
  - 4,0
  - 4,5
  - 5,0
  - 5,5
  - 6,0
  - 6,5
  - 7,0
  - 7,5
  - 8,0



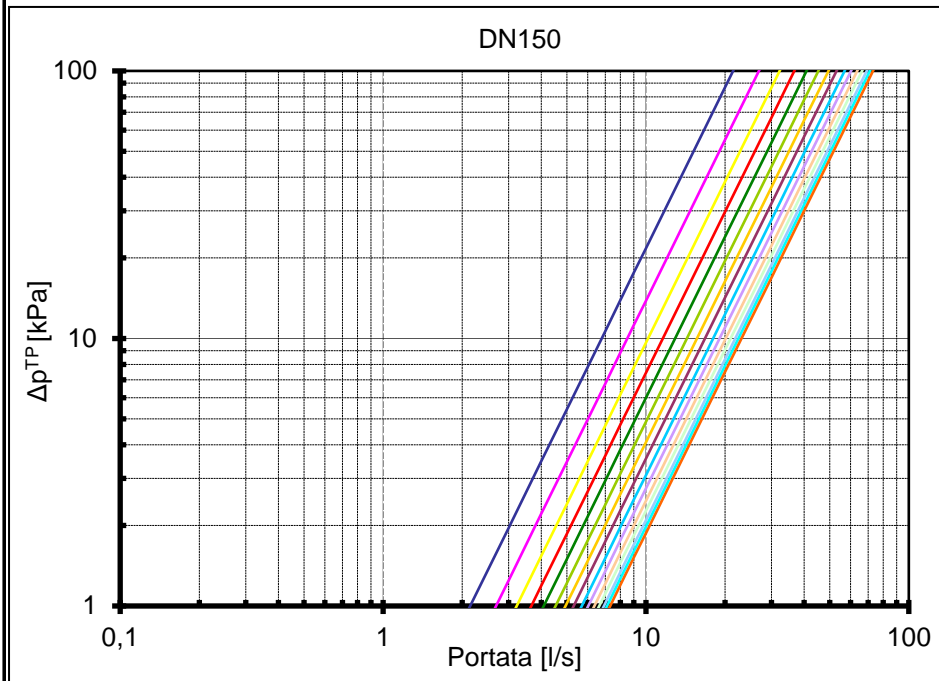
- Regolazione  
volantino
- 1,0
  - 1,5
  - 2,0
  - 2,5
  - 3,0
  - 3,5
  - 4,0
  - 4,5
  - 5,0
  - 5,5
  - 6,0
  - 6,5
  - 7,0
  - 7,5
  - 8,0



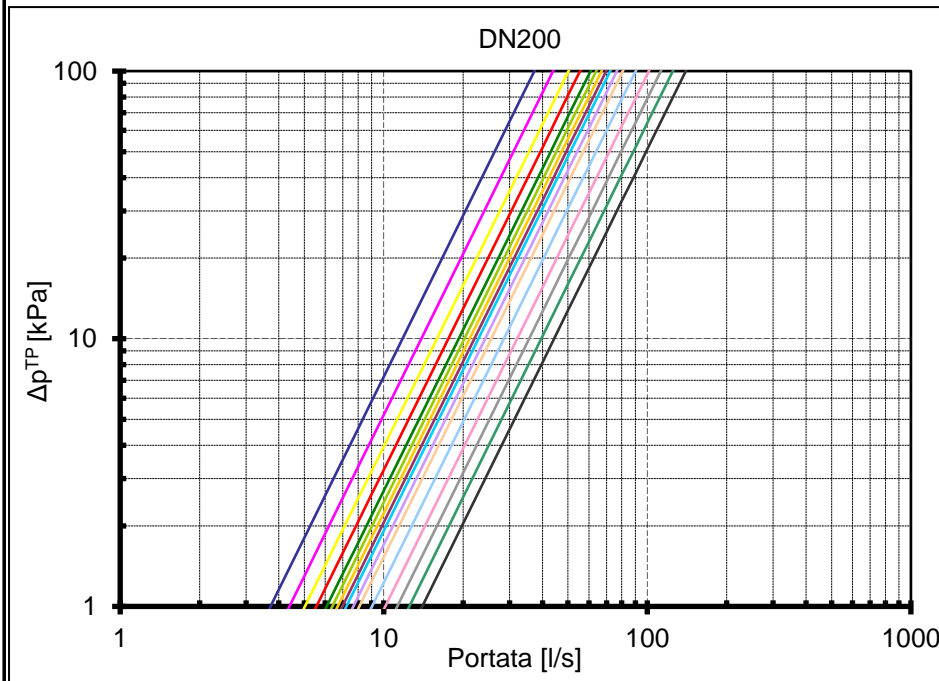
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- Regolazione  
volantino
- 1,0
  - 1,5
  - 2,0
  - 2,5
  - 3,0
  - 3,5
  - 4,0
  - 4,5
  - 5,0
  - 5,5
  - 6,0
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  - 7,0
  - 7,5
  - 8,0



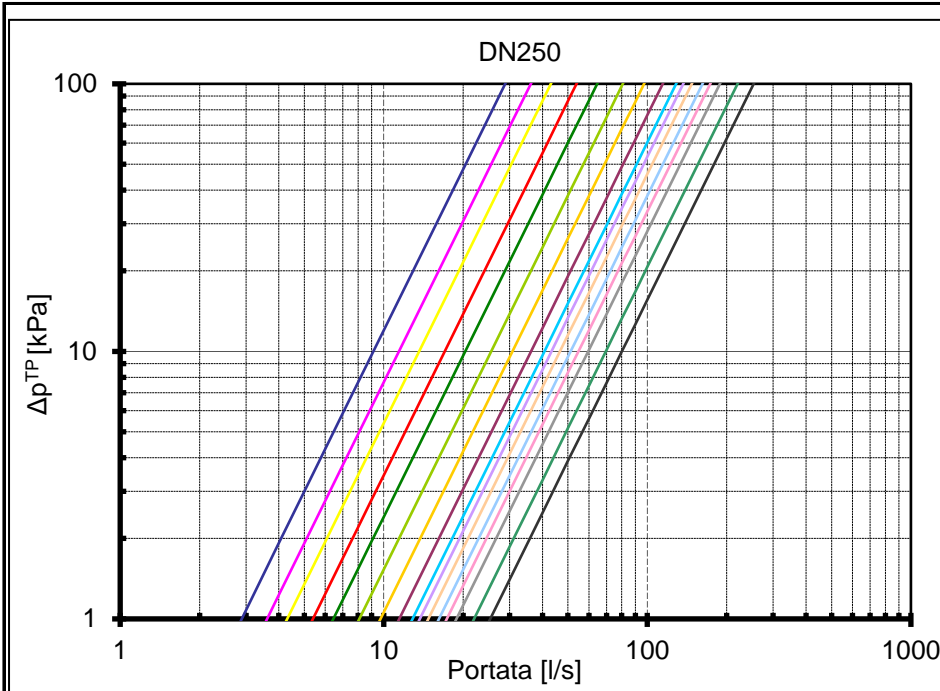
- Regolazione  
volantino
- 1,0
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  - 2,0
  - 2,5
  - 3,0
  - 3,5
  - 4,0
  - 4,5
  - 5,0
  - 5,5
  - 6,0
  - 6,5
  - 7,0
  - 7,5
  - 8,0



- Regolazione  
volantino
- 1,0
  - 1,5
  - 2,0
  - 2,5
  - 3,0
  - 3,5
  - 4,0
  - 4,5
  - 5,0
  - 5,5
  - 6,0
  - 7,0
  - 8,0
  - 9,0
  - 10,0
  - 12,0

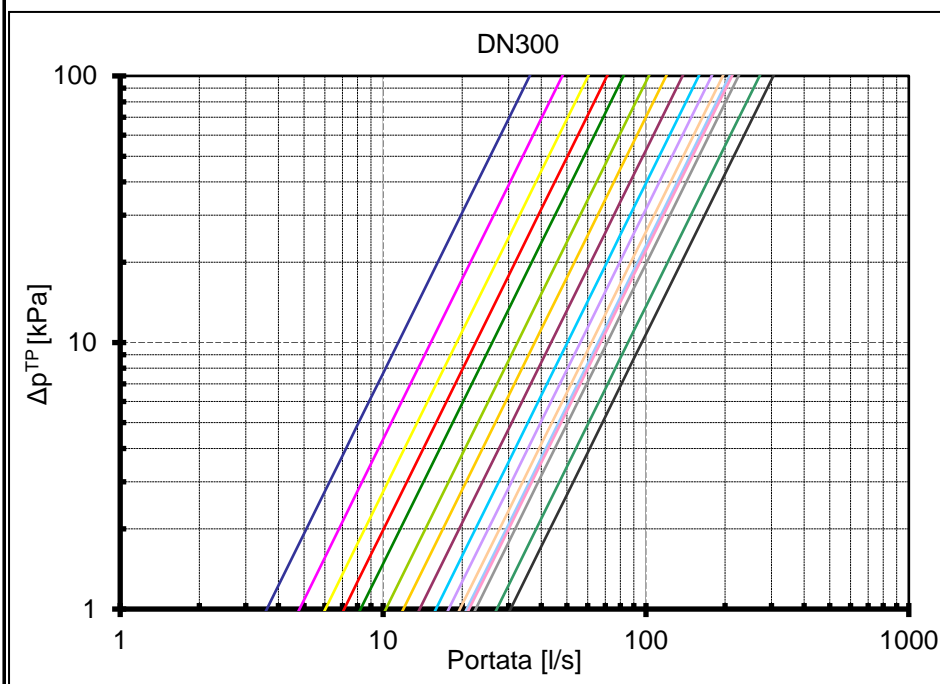


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Regolazione  
volantino

- 1,0
- 1,5
- 2,0
- 2,5
- 3,0
- 4,0
- 5,0
- 6,0
- 7,0
- 8,0
- 9,0
- 10,0
- 11,0
- 12,0
- 14,0
- 16,0



Regolazione  
volantino

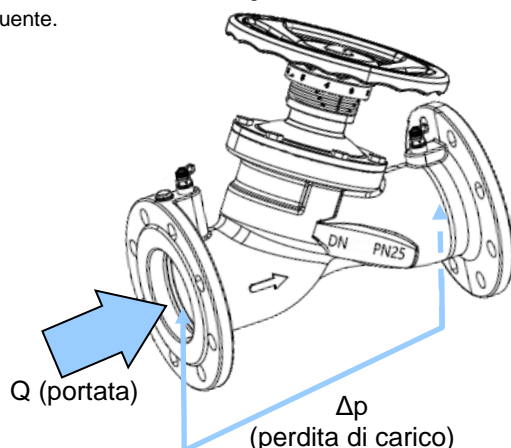
- 1,0
- 1,5
- 2,0
- 2,5
- 3,0
- 4,0
- 5,0
- 6,0
- 7,0
- 8,0
- 9,0
- 10,0
- 11,0
- 12,0
- 14,0
- 16,0

## CALCOLO PERDITE DI CARICO

$$\Delta p = \left( \frac{36 \cdot Q}{K_v} \right)^2$$

Funzione che lega portata Q (in l/s) e perdita di carico Δp teorica della valvola (in kPa).

Il  $K_v$  varia in funzione della regolazione del volante come da tabella nella pagina seguente.



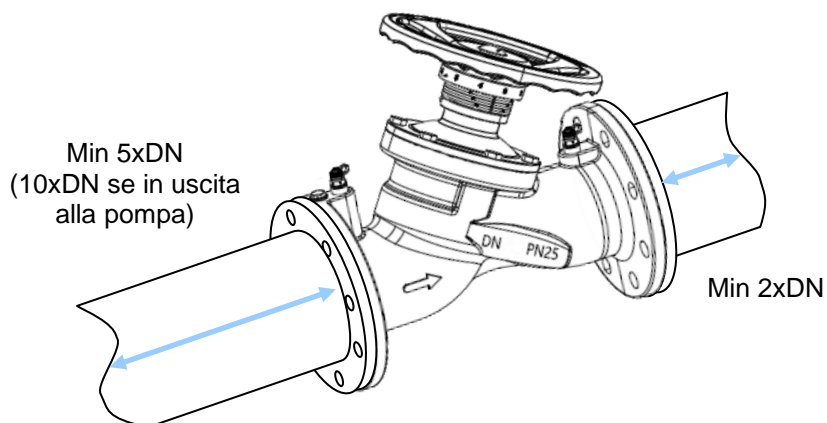
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3,0	33,1	40,6	59,5	93,2	147,0	219,0	232,0	296,0
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5,5	46,0	61,3	89,8	143,0	217,0	276,0	381,0	463,0
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13,0	-	-	-	-	-	-	734	889
14,0	-	-	-	-	-	-	792	974
15,0	-	-	-	-	-	-	843	1044
16,0	-	-	-	-	-	-	912	1099

Copia della tabella riportata nel paragrafo misura portate  
 $\Delta p$  (perdita di carico) circa uguale a  $\Delta p^{TP}$

## INSTALLAZIONE

Per ottenere prestazioni ottimali installare la valvola su una tubazione con lo stesso diametro nominale facendola precedere e seguire da un tratto di tubo rettilineo come da indicazioni in figura.



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