

# 9594

Valvola di bilanciamento a sfera in acciaio inox ad orifizio variabile



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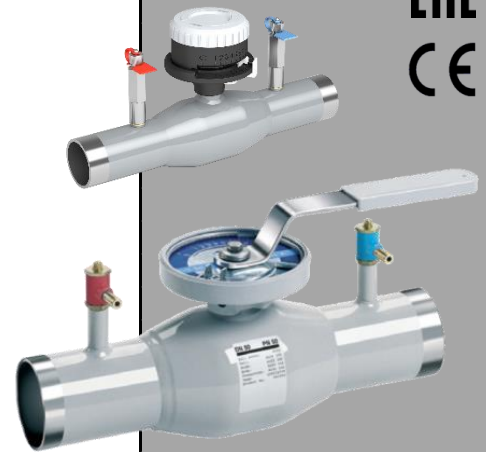
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Valvola di bilanciamento a sfera in acciaio inox ad orifizio variabile  
Versione estremità a saldare  
Con manopola da DN15 a 50 e leva da DN65 a 250  
Con prese pressione per tubo gomma diametro 7mm  
Conforme TR CU 010

PN40 per DN≤50 (Max 40bar fino a 90°C, max 0bar a 200°C)  
PN25 DN≥65 (Max 25bar fino a 131°C, max 0bar a 200°C)  
Esente marcatura CE per DN≤32 (cat. secondo Art. 4.3 Dir. 2014/68/UE)

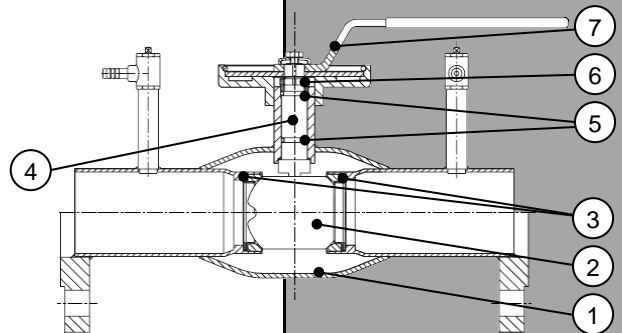
Condizioni di esercizio

- Idoneo per: acqua, da -10°C a +200°C  
sotto 0°C solo per acqua additivata con antigelo  
oltre 100°C solo con additivi che prevengono l'ebollizione
- Non idoneo per: gas gruppo 1 e 2, liquidi gruppo 1 (Dir. 2014/68/UE)



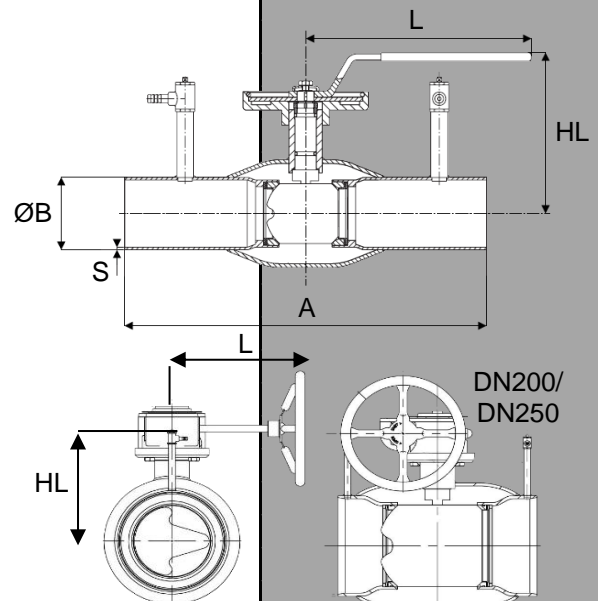
## PARTLIST

N.	Componente	Materiale	Norma
1	Corpo	Acciaio inox	X2CrNiMo17-12-2
2	Sfera	Acciaio inox	X2CrNiMo17-12-2
3	Seggi	PTFE+carbografite	-
4	Asta	Acciaio inox	X2CrNiMo17-12-2
5	O-ring	FPM/NBR	-
6	Gasket	PTFE	-
7	Leva <sup>1</sup>	Acciaio inox <sup>1</sup>	X2CrNiMo17-12-2



## DIMENSIONI

DN	ØB [mm]	S [mm]	A [mm]	L [mm]	HL [mm]	Peso [kg]
015	21,3	2,0	230	140	101	0,7
020	26,9	2,0	230	140	105	0,8
025	33,7	2,0	230	150	107	1,0
032	42,4	2,0	260	150	111	1,4
040	48,3	2,6	260	190	116	1,9
050	60,3	2,6	300	190	123	2,6
065	76,1	3,0	300	280	154	4,4
080	88,9	3,0	300	280	166	5,4
100	114,3	3,0	325	280	173	7,7
125	139,7	4,0	325	420	221	15,5
150	168,3	4,0	350	600	240	16,1
200	219,1	4,0	400	250	269	32
250	273,0	4,0	530	300	301	74



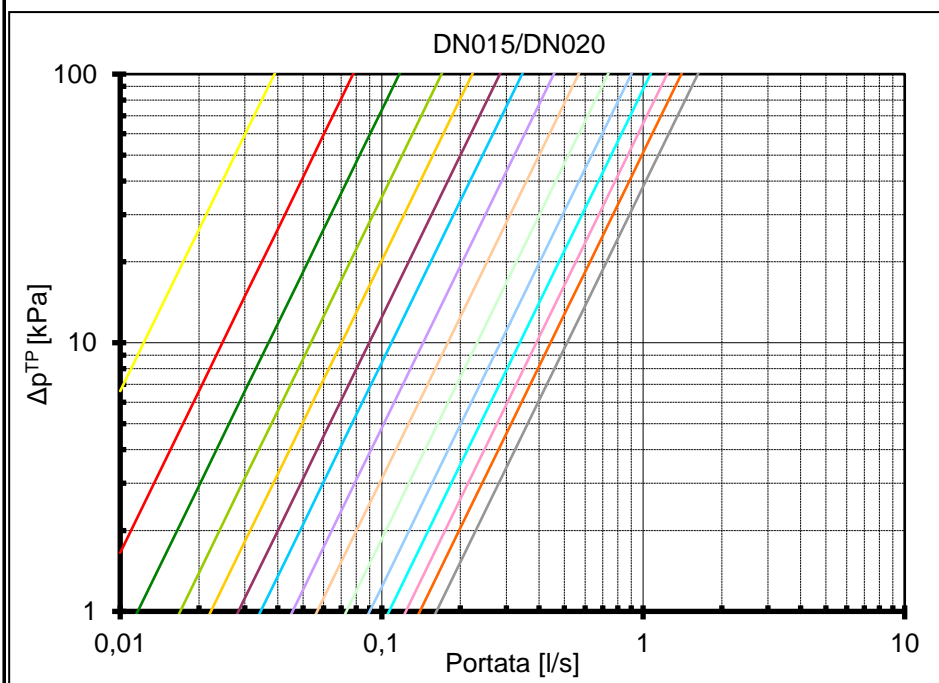
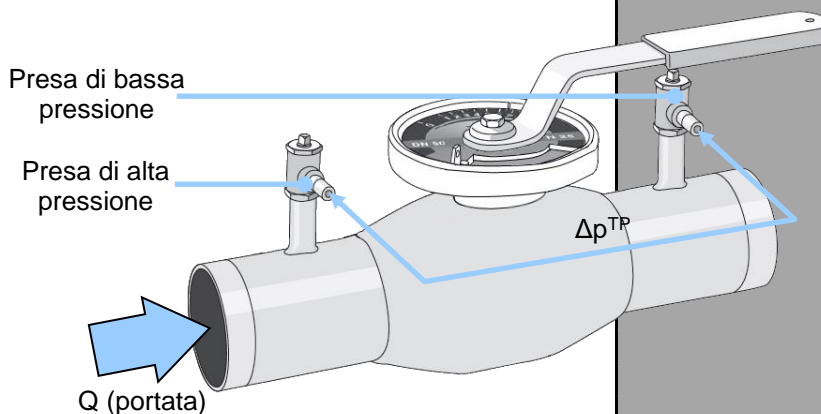
240705

# MISURA PORTATE

Regolaz. Valvola	K <sub>v</sub> [m <sup>3</sup> /h @ 1bar]											
	015/020	025	032	040	050	065	080	100	125	150	200	250
1,0	-	-	0,39	0,60	1,26	2,52	3,42	6,48	8,60	13,68	19,70	35,00
1,5	-	0,35	0,57	1,01	1,80	3,64	5,37	9,47	13,32	20,16	29,00	51,20
2,0	0,14	0,49	0,83	1,48	2,70	4,75	7,31	12,46	18,00	26,64	38,40	66,50
2,5	0,28	0,99	1,08	2,02	3,55	6,34	10,23	16,28	24,30	35,46	51,10	90,00
3,0	0,42	1,36	1,44	2,70	4,39	7,92	13,14	20,09	30,60	44,28	63,80	110,0
3,5	0,61	1,66	1,80	3,24	5,61	9,78	16,11	24,45	37,80	55,08	79,30	140,0
4,0	0,80	2,00	2,30	3,96	6,84	11,63	19,08	28,84	45,00	65,88	95,00	165,0
4,5	1,02	2,40	2,74	4,86	8,34	14,15	23,31	35,82	55,26	84,06	121,0	215,0
5,0	1,24	3,00	3,42	5,98	9,83	16,67	27,54	42,84	65,52	102,2	147,0	260,0
5,5	1,64	3,50	4,21	7,18	11,94	20,94	33,21	51,84	81,72	127,1	183,0	325,0
6,0	2,04	4,50	5,11	8,57	14,04	25,20	38,88	60,84	97,92	151,9	219,0	380,0
6,5	2,64	5,10	5,97	10,15	16,92	29,52	46,26	75,42	121,9	196,6	282,0	500,0
7,0	3,24	6,70	7,27	12,31	19,80	33,84	53,64	90,00	145,8	241,2	325,0	576,0
7,5	3,84	7,30	8,64	14,40	23,40	39,78	64,62	113,4	177,3	289,8	417,0	740,0
8,0	4,45	9,30	10,08	17,64	27,00	45,72	75,60	136,8	208,8	338,4	486,0	866,0
8,5	5,04	10,00	11,52	20,88	30,60	53,46	91,80	169,2	251,3	399,8	576,0	1020
9,0	5,83	12,65	13,14	22,57	34,20	61,20	108,0	216,0	293,8	460,8	660,0	1170

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

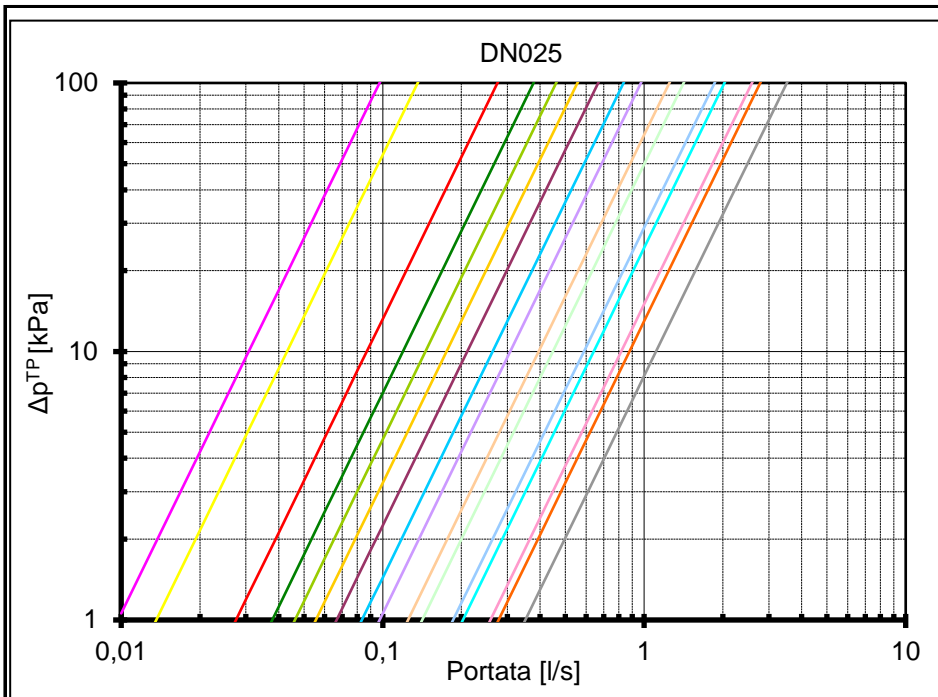
Funzione che lega portata Q (in l/s) e Δp misurata alle prese di pressione (in kPa). Il K<sub>v</sub> varia in funzione della regolazione della leva / riduttore come da tabella. La portata minima misurabile per ogni diametro può essere calcolata utilizzando nella formula la minima Δp misurabile dal manometro differenziale utilizzato.



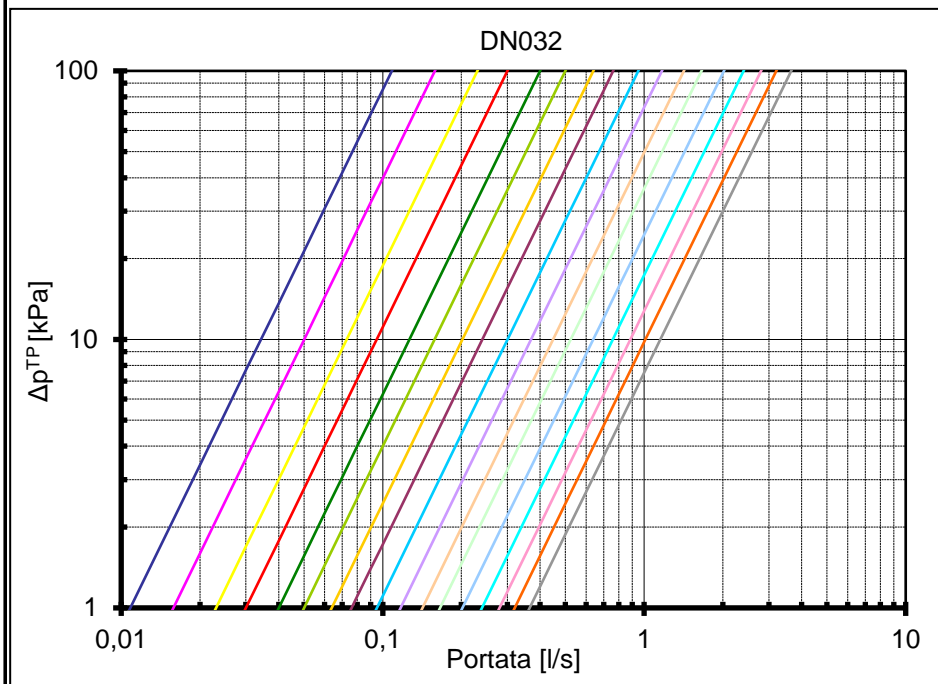
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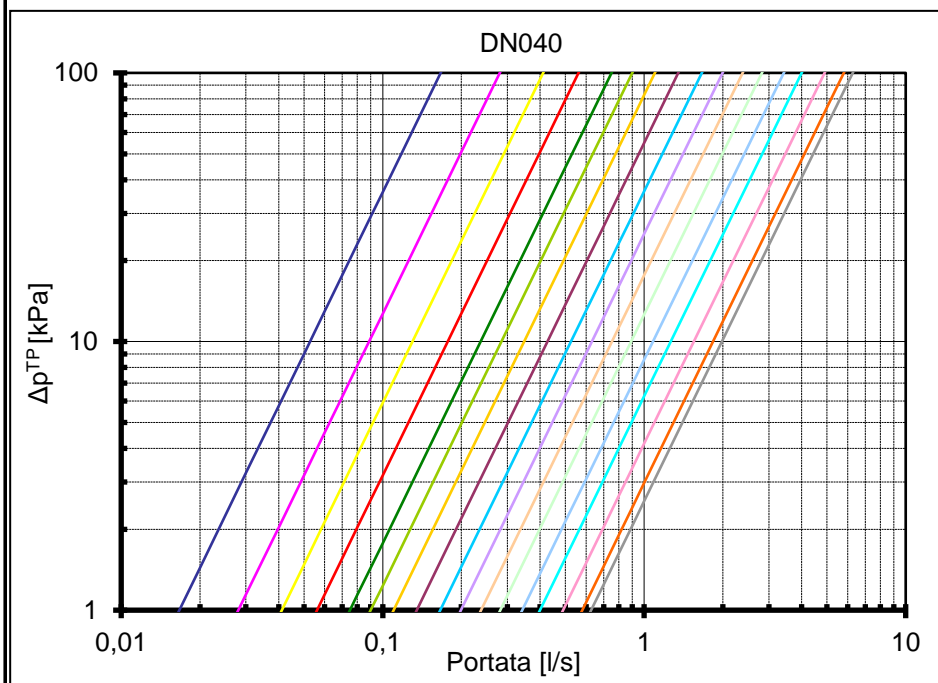
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- Regolazione valvola
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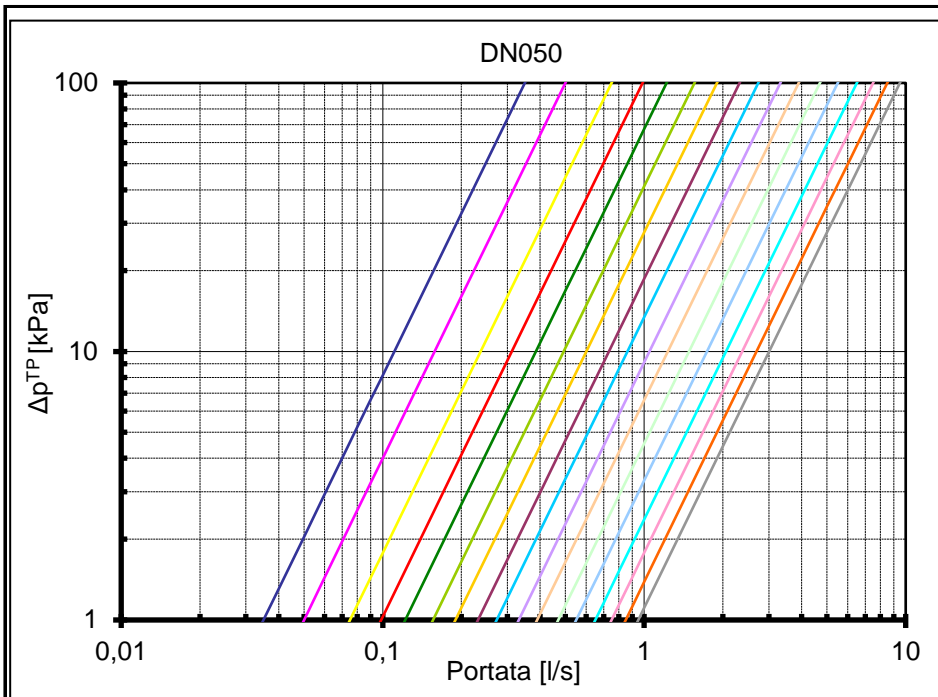
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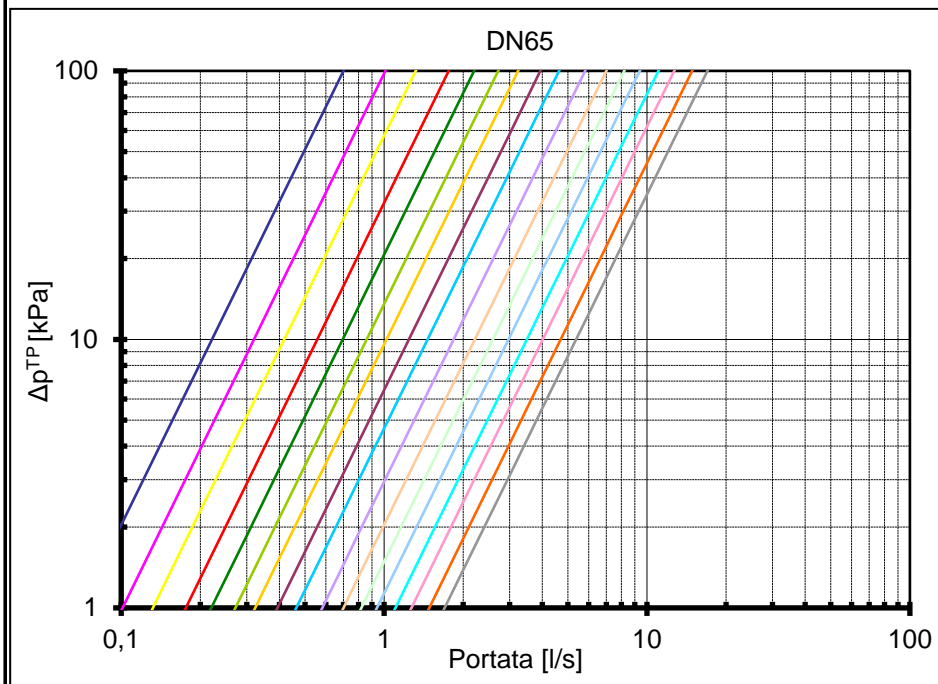
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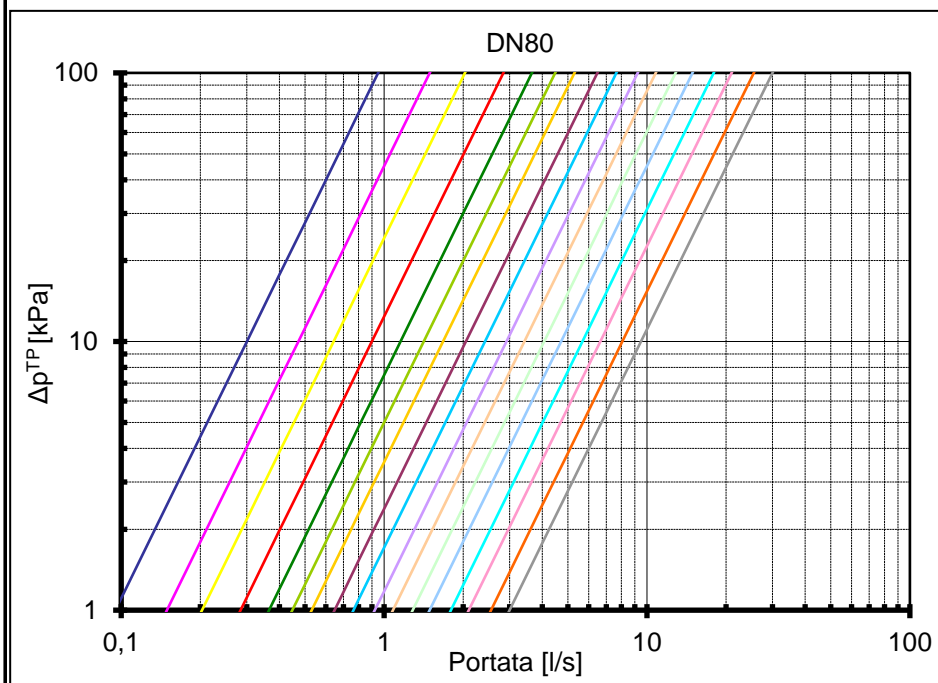
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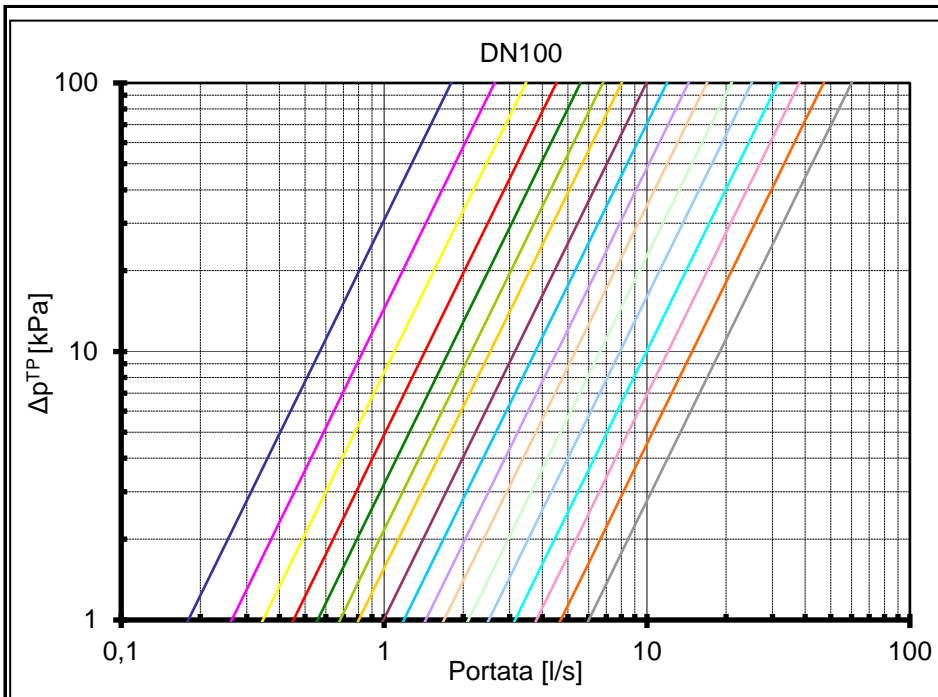
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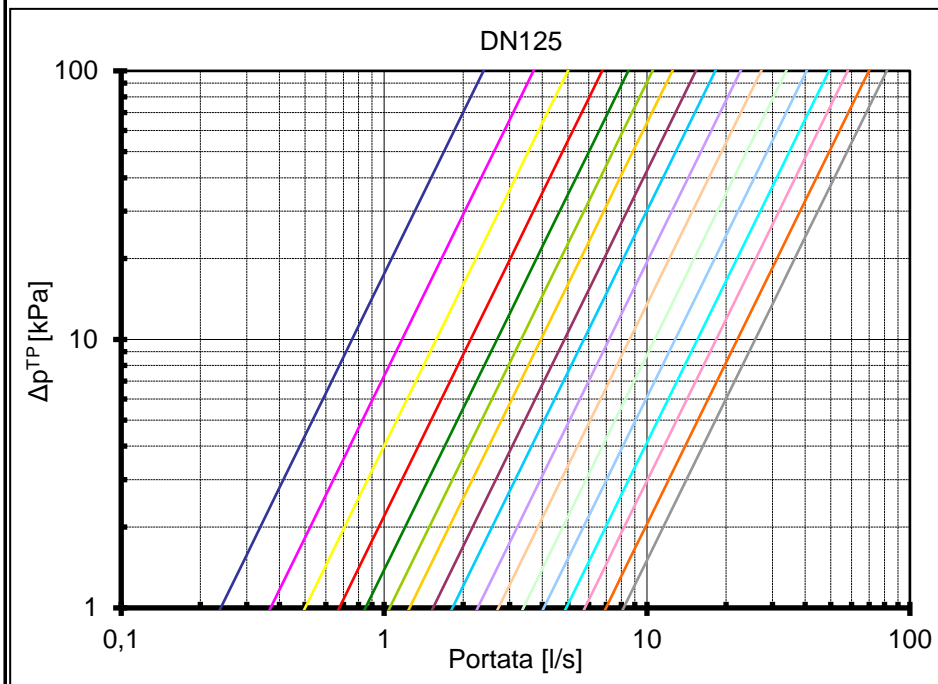
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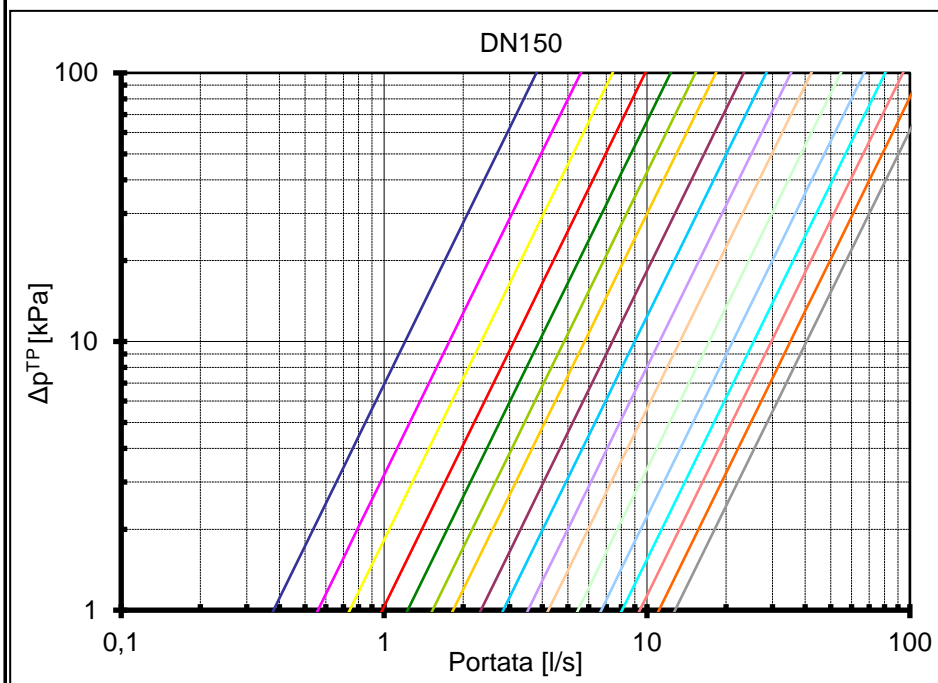
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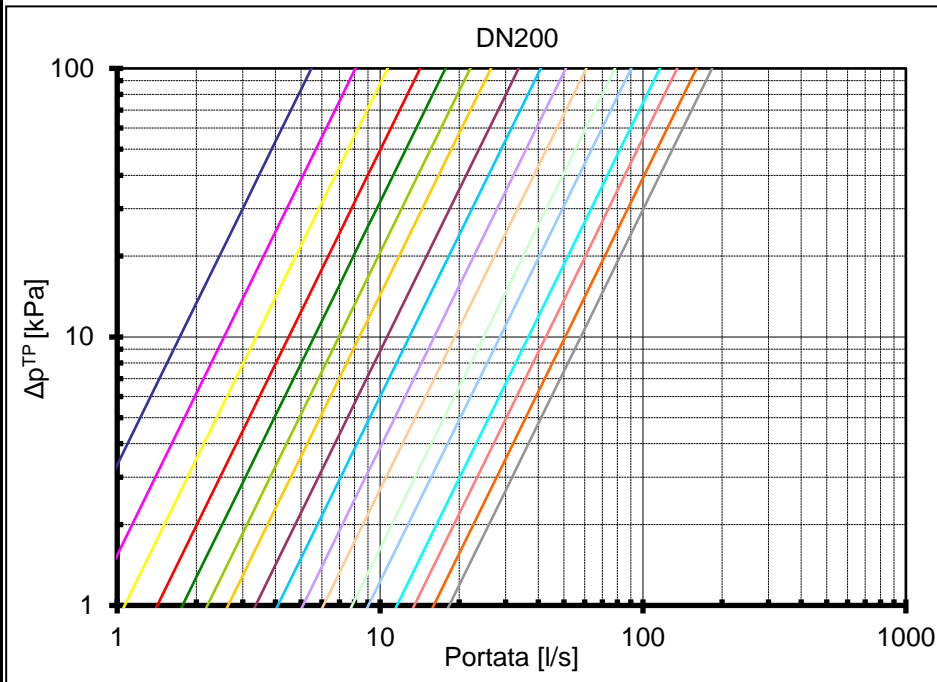
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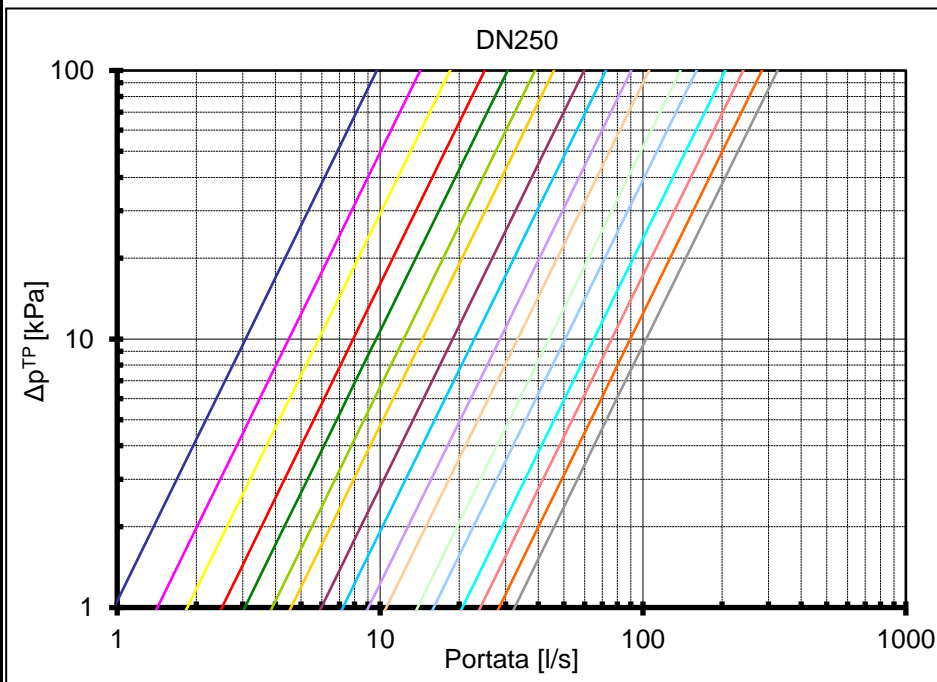
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- Regolazione valvola
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# CALCOLO PERDITE DI CARICO

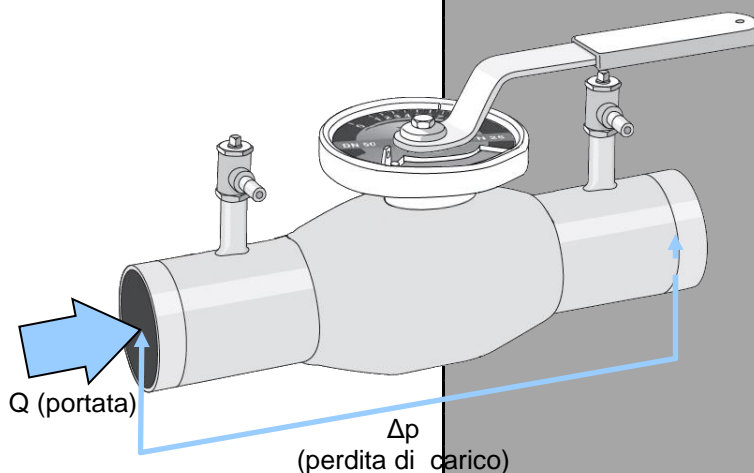
Regolaz. Valvola	K <sub>v</sub> [m <sup>3</sup> /h @ 1bar]											
	015/020	025	032	040	050	065	080	100	125	150	200	250
1,0	-	-	0,39	0,60	1,26	2,52	3,42	6,48	8,60	13,68	19,70	35,00
1,5	-	0,35	0,57	1,01	1,80	3,64	5,37	9,47	13,32	20,16	29,00	51,20
2,0	0,14	0,49	0,83	1,48	2,70	4,75	7,31	12,46	18,00	26,64	38,40	66,50
2,5	0,28	0,99	1,08	2,02	3,55	6,34	10,23	16,28	24,30	35,46	51,10	90,00
3,0	0,42	1,36	1,44	2,70	4,39	7,92	13,14	20,09	30,60	44,28	63,80	110,0
3,5	0,61	1,66	1,80	3,24	5,61	9,78	16,11	24,45	37,80	55,08	79,30	140,0
4,0	0,80	2,00	2,30	3,96	6,84	11,63	19,08	28,84	45,00	65,88	95,00	165,0
4,5	1,02	2,40	2,74	4,86	8,34	14,15	23,31	35,82	55,26	84,06	121,0	215,0
5,0	1,24	3,00	3,42	5,98	9,83	16,67	27,54	42,84	65,52	102,2	147,0	260,0
5,5	1,64	3,50	4,21	7,18	11,94	20,94	33,21	51,84	81,72	127,1	183,0	325,0
6,0	2,04	4,50	5,11	8,57	14,04	25,20	38,88	60,84	97,92	151,9	219,0	380,0
6,5	2,64	5,10	5,97	10,15	16,92	29,52	46,26	75,42	121,9	196,6	282,0	500,0
7,0	3,24	6,70	7,27	12,31	19,80	33,84	53,64	90,00	145,8	241,2	325,0	576,0
7,5	3,84	7,30	8,64	14,40	23,40	39,78	64,62	113,4	177,3	289,8	417,0	740,0
8,0	4,45	9,30	10,08	17,64	27,00	45,72	75,60	136,8	208,8	338,4	486,0	866,0
8,5	5,04	10,00	11,52	20,88	30,60	53,46	91,80	169,2	251,3	399,8	576,0	1020
9,0	5,83	12,65	13,14	22,57	34,20	61,20	108,0	216,0	293,8	460,8	660,0	1170

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

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

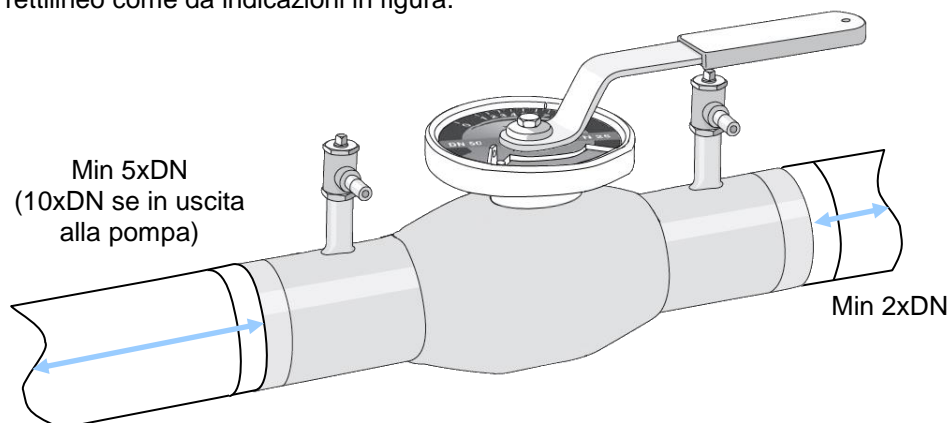
Funzione che lega portata Q (in l/s) e perdita di carico  $\Delta p$  teorica della valvola (in kPa).

Il K<sub>v</sub> varia in funzione della regolazione della leva / riduttore come da tabella.



## 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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