9565XL

Commissioning Kit Fig.4325 + Fig.9450



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Ductile iron Lug butterfly valve Fig.4325

For EN1092 PN16 flanges

Lengths according to EN558-1 series 20 (ex DIN3202 K1)

Design according to EN593

Testing according to EN12266-1

Epoxy coating (min. 150µm)

Stainless steel Wafer metering station Fig.9450

For EN1092 PN16 flanges

Tolerance on nominal K_{vs} ±5%

TR CU 010 compliant

PN16

Working conditions

 Suitable for: water, -10°C to +110°C below 0°C only for water with added antifreeze fluids over 100°C only for water with added anti-boiling fluids

Not suitable for: gases group 1 & 2, liquids group 1 (Dir. 2014/68/EU)

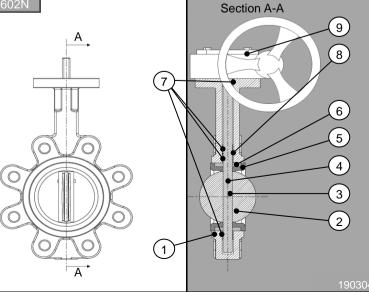
PARTLIST

N.	Part	Material	Norm		
1	Body	Ductile iron	GGG40		
2	Disc	Stainless steel	SS316		
3	Stem	Stainless steel	SS316		
4	Taper pin	Stainless steel	-		
5	Seat	EPDM	-		
6	Seat support	Plastic	-		
7	Bushing	PTFE	-		
8	O-ring	EPDM	-		
9	Manual gear	Cast iron	-		
10	Body	Stainless steel	AISI 304 ¹		
11	Extension	Stainless steel	AISI 304 ¹		
12	Test point	DZR Brass ²	EN12164 CW602N		
¹ ΔISI	316 for DN350 and DN400	•			

¹AISI 316 for DN350 and DN400



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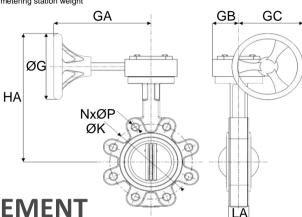


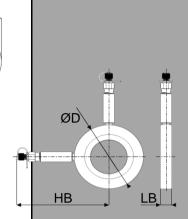
²Test points with EPDM gaskets and polypropylene ties

DIMENSIONS

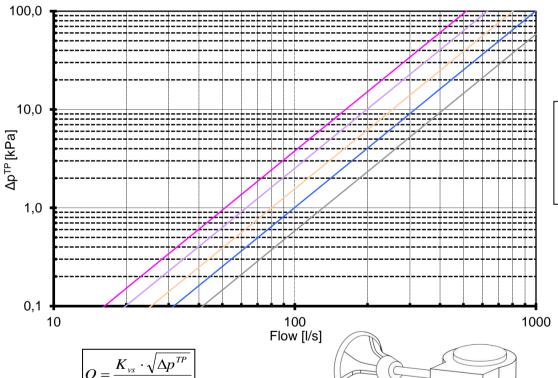
DN	HA	LA	NxØP	ØK	GA	GB	GC	ØG	НВ	LB	ØD	Weight ¹	Flow
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[l/s]
350	552	78	16×M24	470	231	80	237	289	313	21	445	81,3 / 11,0	96-261
400	680	102	16×M27	525	243	111	319	290	338	21	496	138,2 / 14,0	117-320
450	702	114	20×M27	585	243	111	319	290	368	21	556	158,7 / 17,0	150-408
500	759	127	20×M30	650	243	111	319	290	399	21	618	226,6 / 21,0	186-506
600	902	154	20×M33	770	296	133	385	375	458	25	735	315,5 / 35,0	245-667

VIR Fig.4325G butterfly valve weight / VIR Fig.9450 metering station weight





FLOW MEASUREMENT

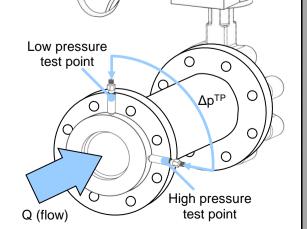


DN350, K_{vs} 1849 DN400, K_{vs} 2264 DN450, K_{vs} 2886 DN500, K_{vs} 3582 DN600, K_{vs} 4716

Formula linking flow Q (in l/s) and Δp measured at test points (in kPa) of the VIR Fig. 9450 metering station.

Minimum flow that can be measured for each diameter may be calculated by using in the formula minimum Δp that can be measured by used manometer.

Valves are anyway designed for best performances when used on range previously suggested.



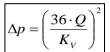


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HEADLOSS CALCULATION

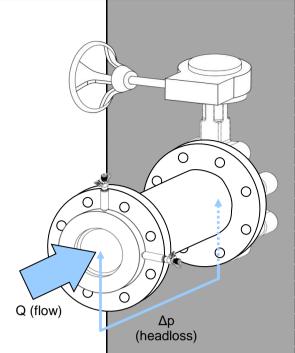
Butterfly	K _√ [m³/h @ 1bar]							
regulation	350	400	450	500	600			
30° ¹	587	796	1049	1342	2022			
40°	1085	1429	1864	2360	3380			
50°	1462	1864	2405	3016	4140			
60°	1675	2090	2679	3340	4479			
70°	1773	2189	2798	3479	4617			
80°	1814	2230	2846	3535	4671			
90°	1820	2236	2852	3543	4679			

¹VIR suggests to avoid using butterfly valves in opening positions below 30°



Formula linking flow Q (in l/s) and theoretical valve headloss Δp (in kPa).

 K_{ν} depends on butterfly regulation as indicated on table.



INSTALLATION

To obtain the best performances valve must be installed on a pipe with its same nominal size preceded and followed by straight pipe lengths as per figure indications.

VIR Fig.9450 metering station and VIR Fig.4325G butterfly valve should be separated by a piece of pipe long at least 1,5xDN (not included).

