VARIABLE ORIFICE DOUBLE REGULATING VALVE

PN16 F63V16
PN25 F63V25

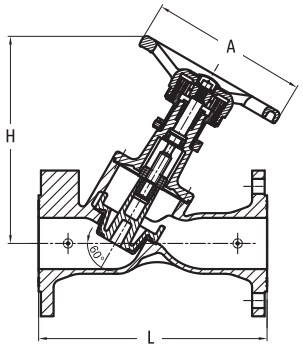
FEATURES & SPECIFICATIONS

- Variable orifice single unit Y-pattern globe valves
- Fitted with a pair of measuring plugs
- Microset handwheel and presetting scale is readable from all directions
- Regulating and isolating functions
- Setting can be locked with allen key
- Comply with BS 7350 / BS EN 12266-1
- Flange drilled to BS 4504 PN16 / EN 1092-2 PN16 / BS 4504 PN25 / EN 1092-2 PN25 / ANSI Class 150 (Specify on order)
- Applicable for hydronic balancing of heating and cooling systems



PRESSURE & TEMPERATURE RATINGS

Working Pressure	16bar	25bar
Shell Test Pressure (x1.5)	24bar	37.5bar
Seat Test Pressure (x1.1)	17.6bar	27.5bar
Working Temperature	-10°C ... 80°C	
Suitable Media	Water	



MATERIAL SPECIFICATIONS

Part	Material	Specification
Body	Ductile Iron	BS EN1563 EN-GJS-450-10
Seal Gasket	EPDM	Commercial
Disc	Ductile Iron+EPDM	BS EN1563 EN-GJS-450-10
Stem Nut	Brass	EN 12165 CW617N
Cover	Ductile Iron	BS EN1563 EN-GJS-450-10
Directed Circle	ABS	
Indicator	ABS	
Packing Gland	Brass (DN65...DN150) Ductile Iron (DN200...DN600)	EN 12165 CW617N BS EN1563 EN-GJS-450-10
Handwheel	Ductile Iron	BS EN1563 EN-GJS-450-10

Part	Material	Specification
Stem	Stainless Steel 410 (DN65...DN300) Stainless Steel 431 (DN350...DN600)	BS970 410S21 BS970 431S29
Packing	PTFE+EPDM	Commercial
Plug	Steel	BS970 Part1 080A15
Orifice	Brass (DN65...DN300) Stainless Steel 304 (DN350...DN600)	EN 12165 CW617N BS970 304S15
Bolt & Screws	Stainless Steel 304	BS970 304S15
Gasket	Stainless Steel 304	BS970 304S15
Indicator Cover	ABS	
Limit Indicator	Brass	EN 12165 CW617N

DIMENSIONS & FLOW COEFFICIENT

(mm)

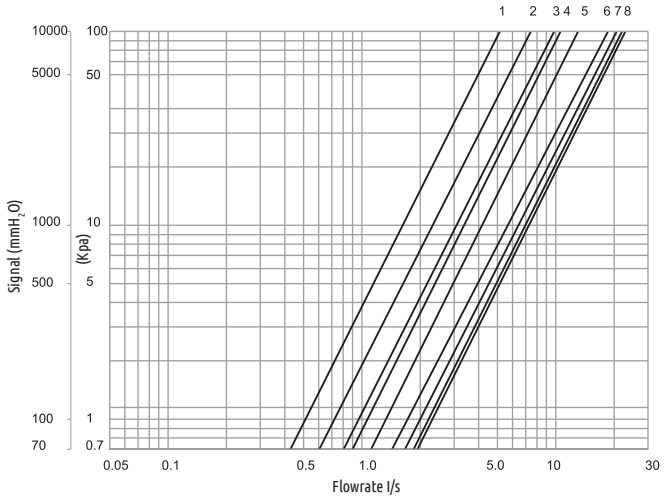
DN (mm)	65	80	100	125	150	200	250	300	350	400	450	500	600
(inch)	2½	3	4	5	6	8	10	12	14	16	18	20	24
L	290	310	350	400	480	600	730	850	980	1100	1200	1250	1450
H	263	268	300	328	340	525	572	686	681	965	972	1065	1180
A	200	200	240	290	290	350	420	420	420	640	640	640	640
Flow Kv	83.8	119.5	178.7	272.7	380.0	608.0	1292.0	1791.0	1824.0	2098.0	2372.0	2640.0	4940.0
Head K	3.78	5.24	9.53	6.98	5.35	6.26	5.57	6.43	11.40	12.40	13.10	13.50	13.90

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VARIABLE ORIFICE DOUBLE REGULATING VALVE

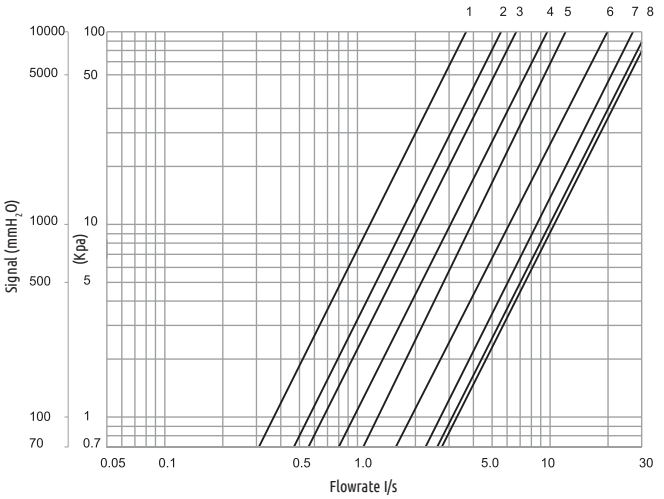
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Size 2½" (DN 65)
Handwheel Setting (Number of turns)



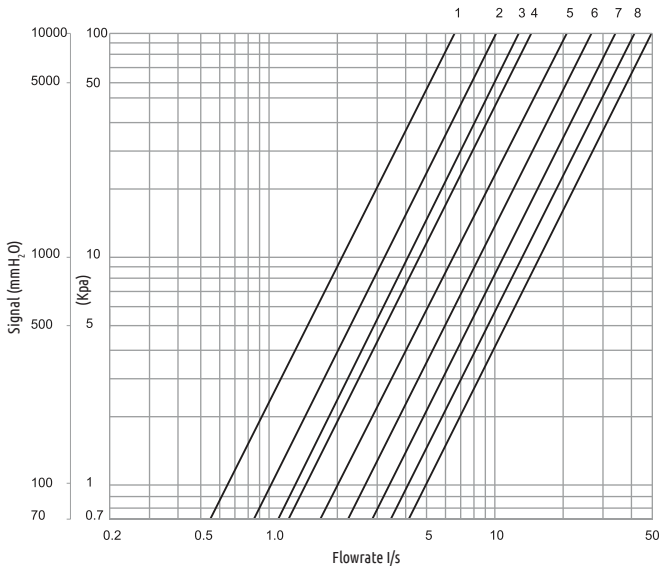
Handwheel Position	1	2	3	4	5
Kv Value	18.6	26.8	35.4	38.7	49.4
Handwheel Position	**6**	**7**	**8**	**Fully Open**	
Kv Value	65.5	74.6	80.2	83.8	

Size 3" (DN 80)
Handwheel Setting (Number of turns)



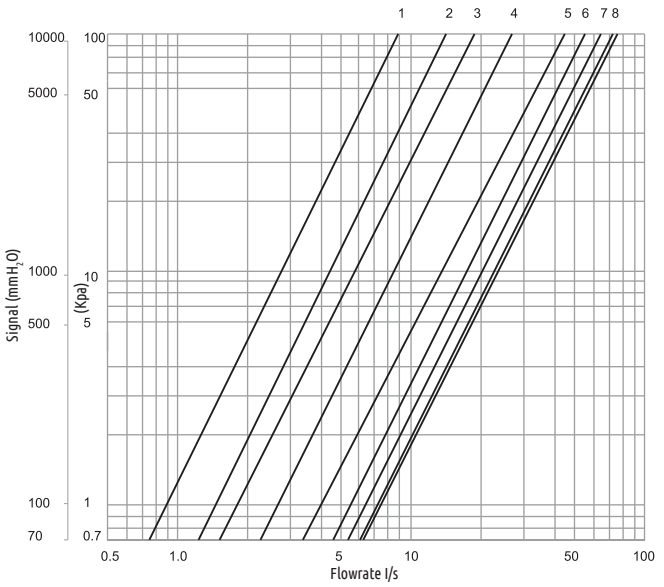
Handwheel Position	1	2	3	4	5
Kv Value	13.3	20.0	24.1	34.9	45.9
Handwheel Position	**6**	**7**	**8**	**Fully Open**	
Kv Value	71.6	98.8	113.7	119.5	

Size 4" (DN 100)
Handwheel Setting (Number of turns)



Handwheel Position	1	2	3	4	5
Kv Value	23.6	36.6	48.5	55.2	75.2
Handwheel Position	**6**	**7**	**8**	**Fully Open**	
Kv Value	97.9	123.9	149.4	178.7	

Size 5" (DN 125)
Handwheel Setting (Number of turns)



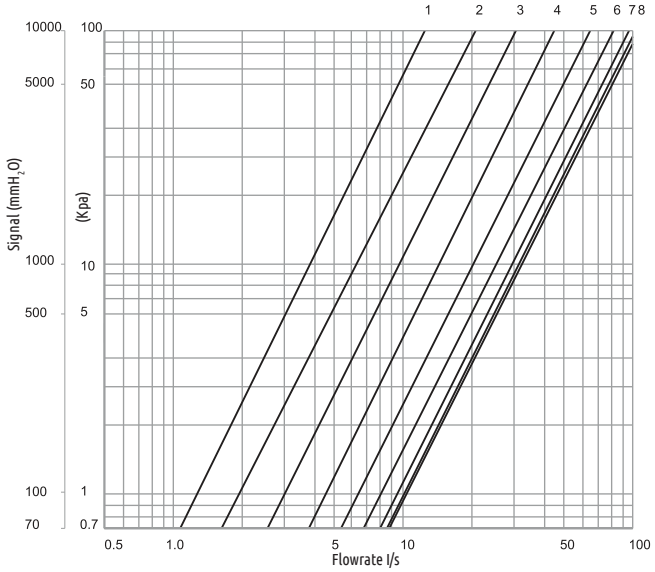
Handwheel Position	1	2	3	4	5
Kv Value	32.2	55.6	68.8	98.0	145.7
Handwheel Position	**6**	**7**	**8**	**Fully Open**	
Kv Value	199.1	231.7	260.5	272.7	

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VARIABLE ORIFICE DOUBLE REGULATING VALVE

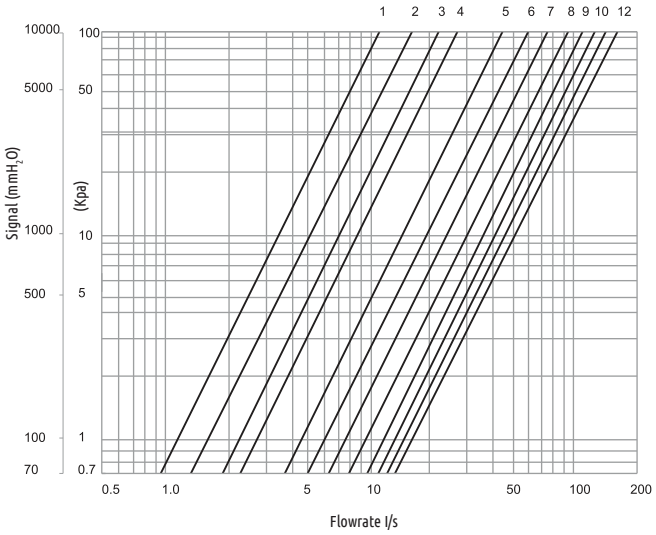
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Size 6" (DN 150)
Handwheel Setting (Number of turns)



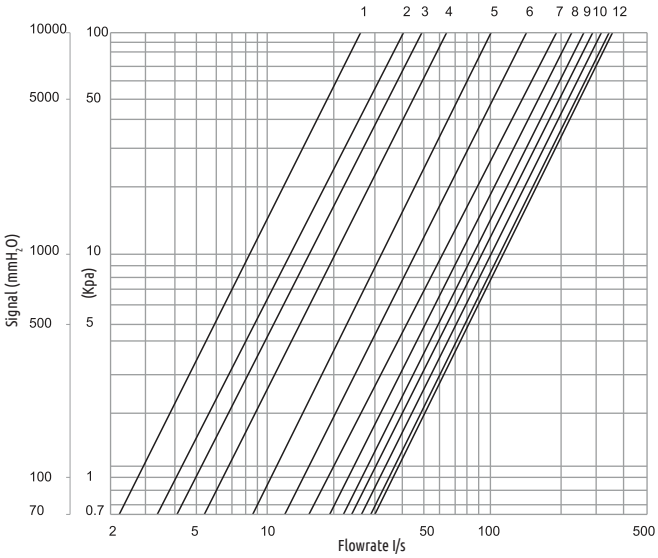
Handwheel Position	1	2	3	4	5
Kv Value	48	75	110	162	233
Handwheel Position	**6**	**7**	**8**	**Fully Open**	
Kv Value	294	346	371	380	

Size 8" (DN 200)
Handwheel Setting (Number of turns)



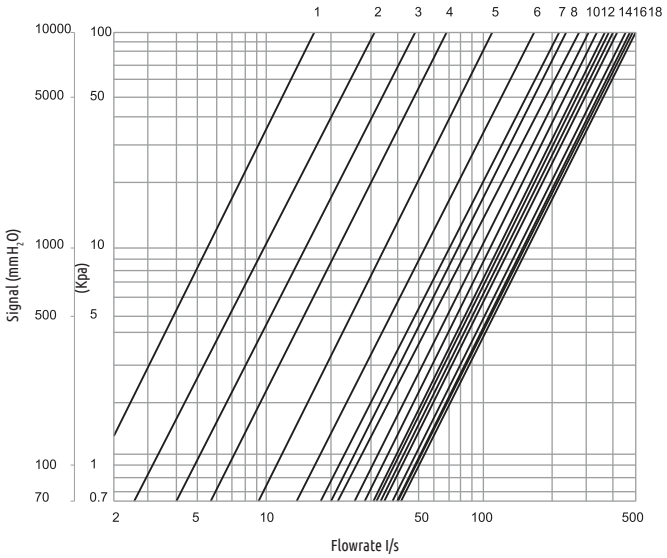
Handwheel Position	1	2	3	4	5	6
Kv Value	41	61	81	99	161	215
Handwheel Position	**7**	**8**	**9**	**10**	**11**	**Fully Open**
Kv Value	271	339	412	482	546	608

Size 10" (DN 250)
Handwheel Setting (Number of turns)



Handwheel Position	1	2	3	4	5	6
Kv Value	97	146	177	232	368	543
Handwheel Position	**7**	**8**	**9**	**10**	**11**	**12**	**Fully Open**
Kv Value	695	832	960	1045	1151	1249	1292

Size 12" (DN 300)
Handwheel Setting (Number of turns)



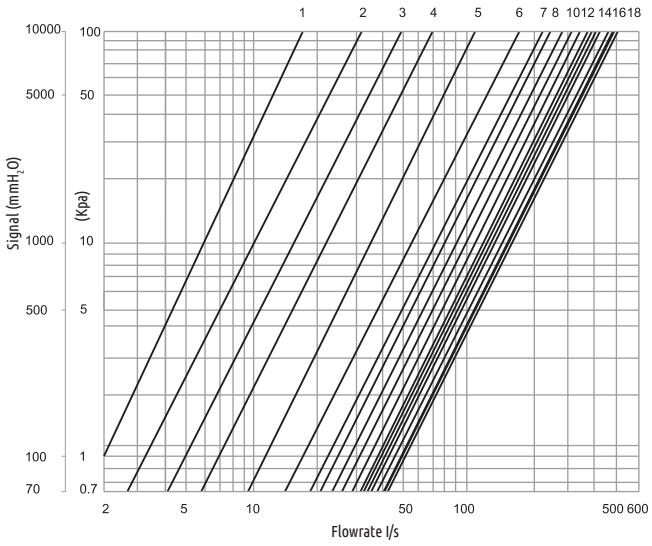
Handwheel Position	1	2	3	4	5	6	7	8	9	10
Kv Value	63	113	174	245	397	628	792	873	1002	1112
Handwheel Position	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**Fully Open**	
Kv Value	1223	1331	1383	1444	1505	1639	1707	1730	1791	

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VARIABLE ORIFICE DOUBLE REGULATING VALVE

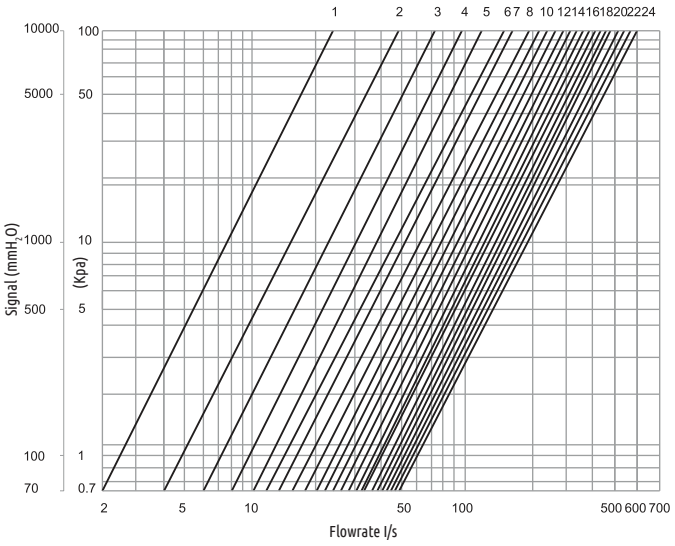
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PN25 F63V25

Size 14" (DN 350)
Handwheel Setting (Number of turns)



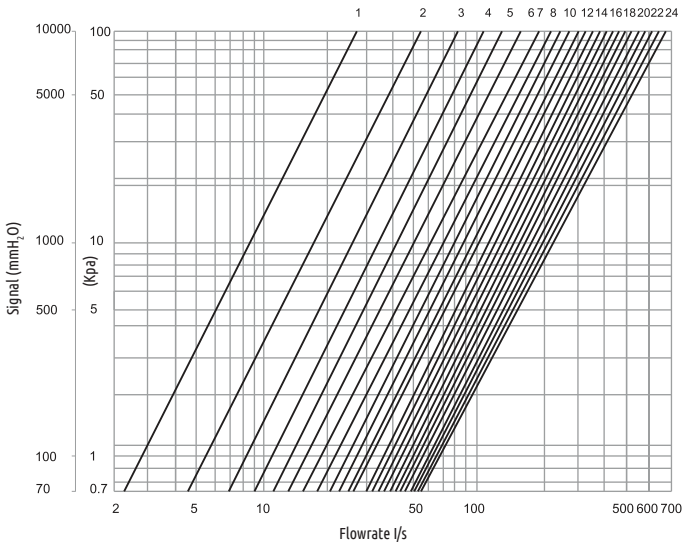
Handwheel Position	1	2	3	4	5	6	7	8	9	10
Kv Value	64	115	177	250	404	639	807	889	1020	1132
Handwheel Position	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**Fully Open**	
Kv Value	1246	1355	1409	1470	1533	1669	1739	1762	1824	

Size 16" (DN 400)
Handwheel Setting (Number of turns)



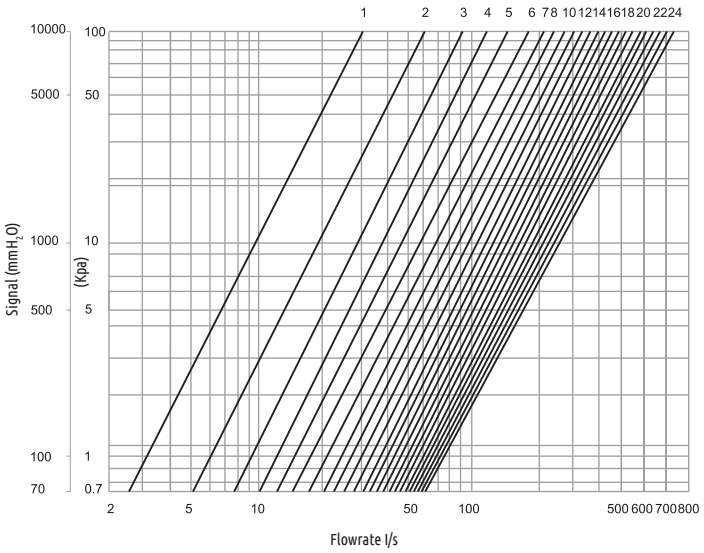
Handwheel Position	1	2	3	4	5	6	7	8
Kv Value	87	175	262	350	437	525	612	699
Handwheel Position	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
Kv Value	787	874	962	1049	1136	1224	1311	1399
Handwheel Position	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**
Kv Value	1486	1574	1661	1748	1836	1923	2011	2098

Size 18" (DN 450)
Handwheel Setting (Number of turns)



Handwheel Position	1	2	3	4	5	6	7	8
Kv Value	99	198	296	395	494	593	692	791
Handwheel Position	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
Kv Value	889	988	1087	1186	1285	1384	1482	1581
Handwheel Position	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**
Kv Value	1680	1779	1878	1977	2075	2174	2273	2372

Size 20" (DN 500)
Handwheel Setting (Number of turns)



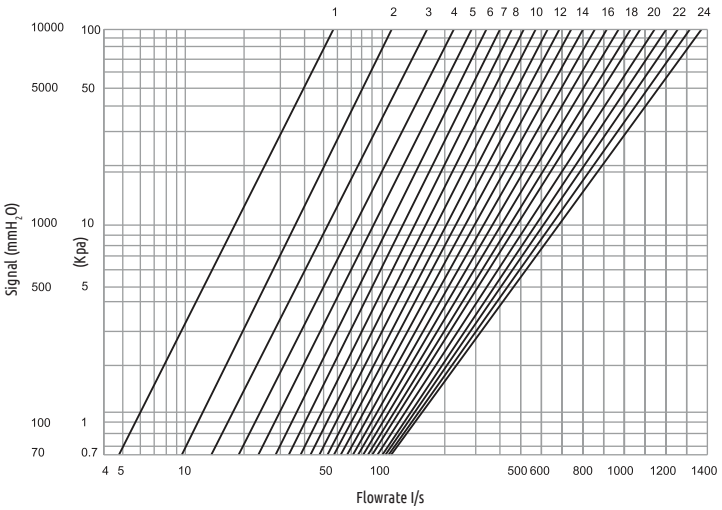
Handwheel Position	1	2	3	4	5	6	7	8
Kv Value	110	220	330	440	550	660	770	880
Handwheel Position	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
Kv Value	990	1100	1210	1320	1430	1540	1650	1760
Handwheel Position	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**
Kv Value	1870	1980	2090	2200	2310	2420	2530	2640

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VARIABLE ORIFICE DOUBLE REGULATING VALVE

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PN25 F63V25

Size 24" (DN 600)
Handwheel Setting (Number of turns)



Handwheel Position	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Kv Value	206	412	617	823	1029	1235	1441	1647
Handwheel Position	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
Kv Value	1852	2058	2264	2470	2676	2882	3087	3293
Handwheel Position	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**
Kv Value	3499	3705	3911	4117	4322	4528	4734	4940

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