

Ref. : RAP5883SW

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# FORGED CARBON STEEL NEEDLE VALVE 3000Psi

## RAP 5883SW



### APPLICATION

General use: Petroleum industry, steam, high pressure.

### GENERAL CHARACTERISTICS

Respect the flow direction ( indicated by the arrow )  
Standard port  
Rising rotating stem  
Monobloc  
Carbon steel  
3000 Psi type

### CONSTRUCTION

11	Washer	Steel
10	Name plate	Aluminium
9	Handwheel nut	Steel
8	Handwheel	Steel ASTM A105N
7	Yoke nut	Stainless steel 410
6	Packing gland	Stainless steel 410
5	Packing	Graphite
4	Ring	Stainless steel 410
3	Stem	Stainless steel 410
2	Needle	Stainless steel 410 hardened
1	Body	Steel ASTM A105N
Pos.	Description	Material

### DIMENSIONS

DN		L	H (opened)	ØD	ØB	ØE	ØF	Weight (kg)
mm	inch							
8	1/4"	60	85	4	78	10.1	14.2	0.65
10	3/8"	60	85	5	78	10.1	17.6	0.64
15	1/2"	70	98	6	78	10.3	21.72	0.83
20	3/4"	75	112	7	78	15.5	27.05	1.04
25	1"	90	134	8.5	98	14.5	33.78	1.96

### FLOW COEFFICIENT Kvs (M3/h)

DN		Turn numbers									
mm	inch	0	0.5	1	2	3	3.5	4	4.75	5	6
8	1/4"	0	0.17	0.26	0.35	0.38	0.43				
10	3/8"	0	0.22	0.32	0.42	0.48	0.54				
15	1/2"	0	0.39	0.60	0.78	0.86	0.86	0.86	0.90		
20	3/4"	0	0.45	0.67	1.13	1.28	1.34	1.36	1.38	1.39	1.39
25	1"	0	0.52	0.78	1.30	1.47	1.51	1.56	1.58	1.60	1.60

### WORKING CONDITIONS

Maximum working pressure : 200 bar at 20°C.  
Maximum working temperature : -46°C/+250°C.

### STANDARDS

Fabrication according to ISO 9001 : 2008.  
DIRECTIVE 97/23/CE : Concerned by article 3, § 3.  
ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 & 22.  
Socket welding (SW) connection.

