

Ref. : RAP5883NPT

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FORGED CARBON STEEL NEEDLE VALVE 3000Psi

RAP 5883NPT



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 | L1 | Weight (kg) |
|----|------|----|---------------|-----|----|----|----------------|
| mm | inch | | | | | | |
| 8 | 1/4" | 60 | 85 | 4 | 78 | 11 | 0.65 |
| 10 | 3/8" | 60 | 85 | 5 | 78 | 11 | 0.64 |
| 15 | 1/2" | 70 | 98 | 6 | 78 | 14 | 0.83 |
| 20 | 3/4" | 75 | 112 | 7 | 78 | 15 | 1.04 |
| 25 | 1" | 90 | 134 | 8.5 | 98 | 20 | 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.
Threaded NPT female ends according ASME B2.1.
ATEX Group II Category 2 G/2D Zone 1
& 21 Zone 2 & 22.

