



The right connection
The right environment

Needle Valves, Sub-plate mounting MHNL

Ref. No. H02758
Release: Apr 2025

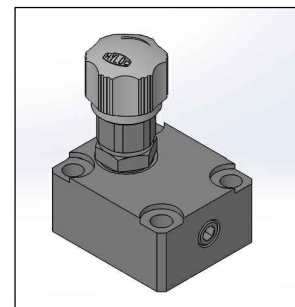
ENGINEERING - 1 of 2

Description

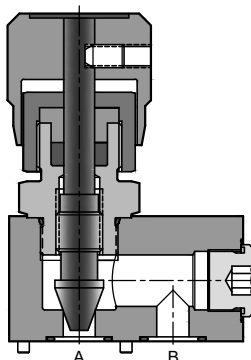
Needle valves model **MHNL** are rising spindle valves with taper needle construction.

The throttle is effective in either direction.

The mounting interface conforms to factory standard.



Section



Model : **MHNL**

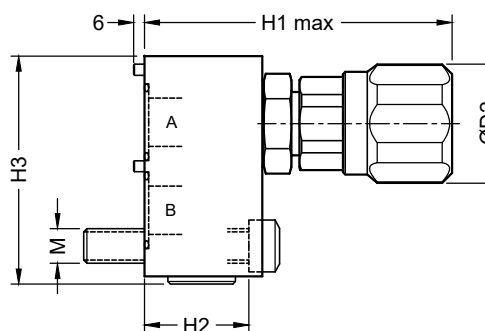
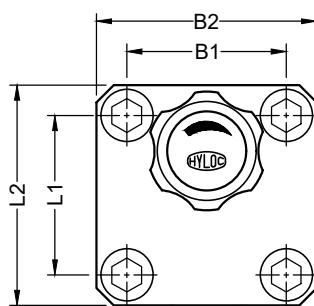
Hydraulic Symbol



Unit Dimensions

Sub-plate mounting

Dimensions in mm.



| Size | Part code | B1 | B2 | L1 | L2 | H1 | H2 | H3 | ØD2 | Mounting screws (10.9) | Torque | Mass (Kg) |
|--------------|-------------------|------|-----|------|-----|-------|------|-----|-----|------------------------|--------|-----------|
| DN 11 | MHNL11-2.0 | 47.8 | 65 | 60.5 | 78 | 116.0 | 35.0 | 79 | 40 | M10 x 50 Long | 20 Nm | 1.5 |
| DN 19 | MHNL19-2.0 | 65.0 | 97 | 81.0 | 113 | 140.0 | 26.0 | 118 | 48 | M16 x 50 Long | 110 Nm | 3.6 |
| DN 28 | MHNL28-2.0 | 92.0 | 127 | 92.0 | 127 | 156.5 | 60.0 | 131 | 68 | M20 x 90 Long | 225 Nm | 8.5 |

Technical Specifications

Construction ----- Rising conical spindle.
Mounting style ----- Sub-plate mounting.
Mounting Interface ----- Factory standard.
Flow direction ----- From 'A' to 'B' or 'B' to 'A'
Operating pressure ----- 350 bar.

Hydraulic medium ----- Mineral oil.
Viscosity range ----- 10 cSt to 380 cSt.
Fluid temperature range ----- -20 °C to +70 °C
Fluid cleanliness requirement ----- As per ISO 4406 20/18/15
Nom. flow handling capacity ----- Refer graphs



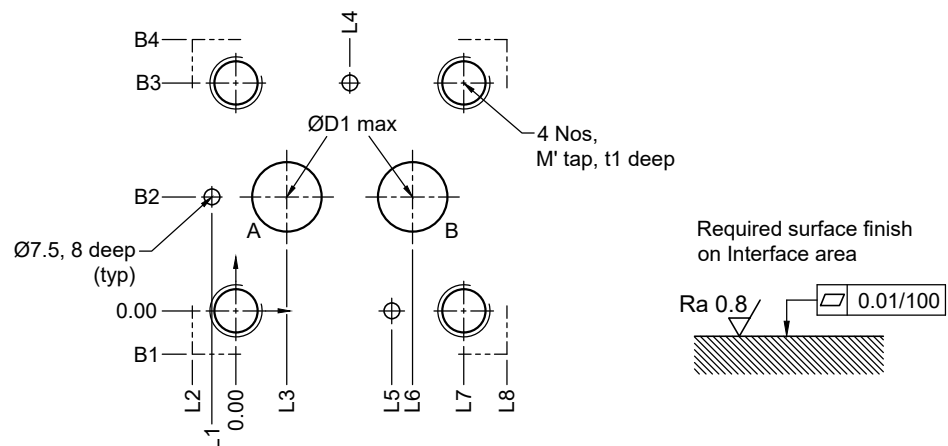
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ENGINEERING - 2 of 2

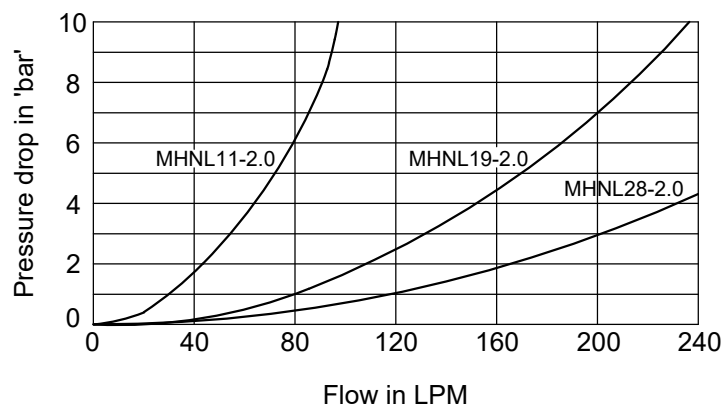
Interface - Factory standard



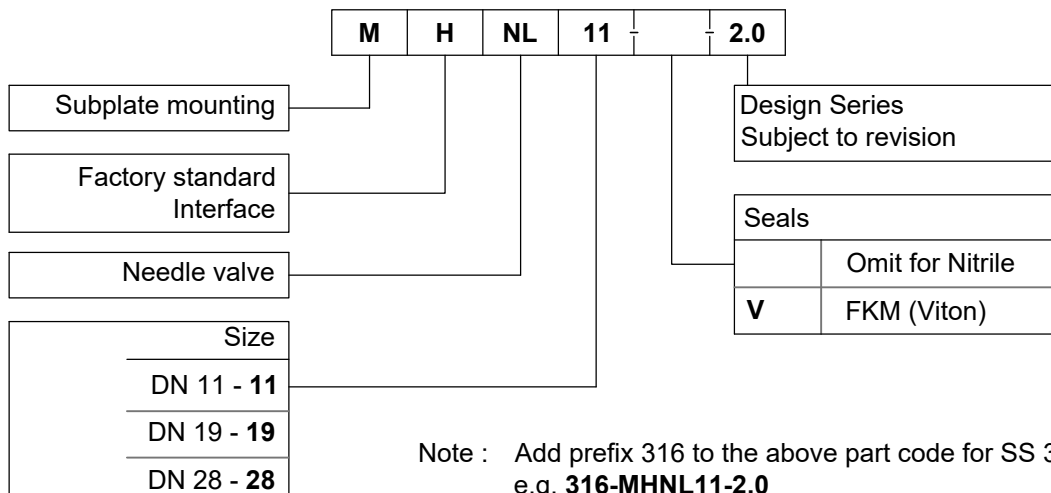
| Size | Part code | ØD1 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | B1 | B2 | B3 | B4 | M | t 1 |
|-------|------------|------|-------|-------|------|------|------|------|------|-------|-------|------|------|-------|-----|-----|
| DN 11 | MHNL11-2.0 | 11.0 | --- | -8.6 | 12.7 | 30.3 | 47.8 | 47.8 | 60.5 | 69.4 | -8.6 | 23.9 | 47.8 | 56.4 | M10 | 18 |
| DN 19 | MHNL19-2.0 | 19.0 | -8.70 | -16.0 | 22.2 | 40.5 | --- | 68.3 | 81.0 | 97.0 | -16.0 | 32.5 | 65.0 | 81.0 | M16 | 28 |
| DN 28 | MHNL28-2.0 | 28.0 | -9.65 | -17.5 | 20.6 | 46.0 | --- | 71.4 | 92.0 | 109.5 | -17.5 | 46.0 | 92.0 | 109.5 | M20 | 35 |

Performance curves

Oil used : ISO VG 68
Viscosity : 68 cSt @ 40 °C
Test conducted at : 50 °C
Condition : Valve fully opened



Ordering Code



Note : Add prefix 316 to the above part code for SS 316 Valves.
e.g. **316-MHNL11-2.0**

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