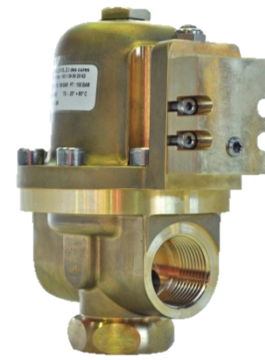


- > **Port size: G1**
- > **Robust design**
- > **Reliable operation for more than 20 years if maintenance program is being followed**
- > **Options are designed to tailor or customize D166 to application needs, hence increasing overall efficiency**



Technical features

Ideal for variable inlet pressure and environmental temperature the D166 maintains stable downstream pressure control. The heavy duty construction makes the D166 perfect for arduous conditions and harsh environments. Suitable for medium and high pressure. It's manually adjustable with the use of a small piloting valve or electronically controlled, or set with a spanner thanks to the needle valve block differential version, balanced design optional back pressure regulator

Applications:

- Gas distribution/mixing
- Pressure test rigs
- Marine industries
- Off shore / aggressive environments
- Oxygen use approved
- Compressor regulation
- Air, O₂, CH₄ compressor

Medium:

Any gases, air, N₂, O₂, Ar, H₄, H₂, C₂H₂, CO₂, N₂O or some liquids

Maximum inlet pressure:

15 barg (217 psig)
 100 barg (1450 psig)

Outlet pressure range:

0,3 ... 5 barg (4.3 ... 72 psig)
 0,5 ... 100 barg (7.2 ... 1450 psig)

Flow rate indication:

Under sonic conditions (P₁>2P₂) air flow rate indication is given for an equivalent flow with air which is 48 Nm³/h per Bar of absolute pressure downstream (internal Ø 9 mm and ports 1").

Leakage:

Helium leak tested:
 Internal leak tight: >10⁻³ mbar.l/sec
 External leak tight: >10⁻⁴ mbar.l/sec
 Helium leak tested to 10⁻⁸ atm.cm³/sec⁻¹ (on request)

Weight:

3,5 kg

Ambient/Media temperature:

-20 ... +50°C (-4 ... +122°F)

Note:

Advised filter:
 F545L Option 1006
 F545I Option 1006
 Advised fittings:
 T1552 (G1") or T1569 (G1")

Materials:

Body: Brass or stainless steel
 Valve insert: PCTFE, Peek or Torton
 Seat: Stainless steel

Option selector

D166*****

Main material	Substitute
Brass	L
Stainless steel	I
Maximum inlet pressure	Substitute
15 barg	C
100 barg	G
Outlet pressure range	Substitute
0,3 ... 5 barg	17
0,5 ... 100 barg	43
Valve material	Substitute
NBR	N
EPR	E
FPM	V
Seat material	Substitute
Brass	L
Stainless steel	I
When a pilot is being flanged the Outlet pressure range/code is defined by the capability of the pilot valve - For electronic proportional control:	Substitute
0 ... 1 bar	89
0 ... 10 bar	88
0 ... 20 bar	82
0 ... 40 bar	83
0 ... 60 bar	87
0 ... 100 bar	86

Main options	Substitute
Standard version 9 mm	2000
Standard version 12 mm	2001
Dome with only G" 1/4 piloting port	2009
Hydraulic version 12mm	2023
With electronic proportional control pilot D466 0-40 bar 4-20 mA	2158
Equipped with ISO DN25 PN40 swivelling flange and G 1/4" piloting port	2030
Equipped with manual piloting D420 directly flanged on the dome	2036

More options are available upon specific request

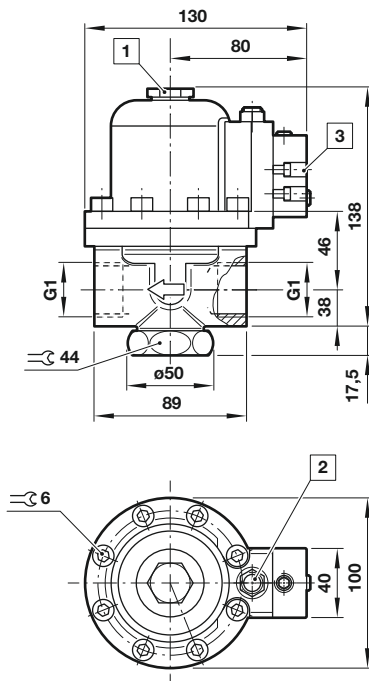
Option selector service kits

★D166*****

Service kit	Substitute
Complete repair and maintenance kit with valve assembly	K
'O'rings only	J

Manufacture code	Substitute
Norgren internal use	
Elastomere	Substitute
NBR	N
EPR	E
FPM	V

Dimensions

 Dimensions in mm
 Projection/First angle


- 1 Dome filling or gauge port
- 2 Venting port
- 3 Loading port, built in side

Sicherheitshinweise

Diese Produkte sind dort einzusetzen, wo die unter »**Technische Merkmale/-Daten**« aufgeführten Werte nicht überschritten werden.

Berücksichtigen Sie bitte die entsprechende Katalogseite. Vor dem Einsatz der Produkte, in Bereiche, die nicht in den veröffentlichten Anleitungsunterlagen enthalten sind, wenden Sie sich bitte direkt an IMI Precision Engineering, IMF sas.

Durch Missbrauch, Verschleiß oder Störungen können in Fluidsystemen verwendete Komponenten auf verschiedene Arten versagen. Systemauslegern wird dringend empfohlen, die Störungsarten aller in Fluidsystemen verwendeten Komponententeile zu berücksichtigen und ausreichende Sicherheitsvorkehrungen zu treffen, um Verletzungen von Personen sowie Beschädigungen der Geräte im Falle einer solchen Störung zu verhindern. Systemausleger sind verpflichtet, Sicherheitshinweise für den Endbenutzer im Betriebshandbuch zu vermerken, wenn der Störungsschutz nicht ausreichend gewährleistet ist.