

- > **Port size: G3/8**
- > **Robust design**
- > **Reliable operation for more than 20 years if maintenance program is being followed**

- > **Options are designed to tailor or customize D083 to application needs, hence increasing overall efficiency**



Technical features

Ideal for variable inlet pressure and environmental temperature the D083 maintains stable downstream pressure control. The heavy duty construction makes the D083 perfect for arduous conditions and harsh environments. Suitable for medium and high pressure. It's manually adjustable, 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
- Tested in adiabatic O₂ compression

Medium:

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

Maximum inlet pressure:

250 barg (3625 psig)

Outlet pressure range:

1,5 ... 6 barg (22 ... 87 psig)
 1,5 ... 15 barg (22 ... 217 psig)
 6 ... 24 barg (87 ... 348 psig)
 7 ... 40 barg (102 ... 580 psig)
 7 ... 52 barg (102 ... 754 psig)
 14 ... 70 barg (203 ... 1015 psig)
 14 ... 105 barg (203 ... 1522 psig)
 20 ... 120 barg (290 ... 1740 psig)
 30 ... 160 barg (435 ... 2320 psig)
 50 ... 250 barg (725 ... 3625 psig)

Flow rate indication:

Flow rate indication is given for an equivalent flow with air, under sonic conditions (ie when P₁ > 2P₂), which is 5 Nm³/h per Bar of absolute pressure downstream (internal Ø 4 mm and ports 3/8" and 13 Nm³/h with 1/2" port).

Leakage:

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

Weight:

3,8 kg

Ambient/Media temperature:

-20 ... +50°C (-4 ... +122°F)

Note:

Advised filter:
 F509L Option 1001
 Advised fittings:
 T1562 (G3/8) or T1849 (G1/2)

Materials:

Body: Brass
 Valve insert: PCTFE, Peek, Torlon, Vespel, Monel or stainless steel
 Seat: PCTFE, Peek, Torlon, Vespel, Monel or stainless steel

Option selector

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Outlet pressure range	Substitute
1,5 ... 6 barg	19
1,5 ... 15 barg	25
6 ... 24 barg	28
7 ... 40 barg	33
7 ... 52 barg	35
14 ... 70 barg	38
14 ... 105 barg	44
20 ... 120 barg	45
30 ... 160 barg	51
50 ... 250 barg	60
Seat/Valve insert material	Substitute
PCTFE	K
Peek	P
Torlon	T
VespeI	R
Monel	M
Stainless steel	I
Main options	Substitute
Standard version	1000
Without relief valve	1001
VD gauge port (vertical position - inlet on the right)	1005
VG gauge port (vertical position - inlet on the left)	1006
Blocking nut instead of the hand wheel	1007

Main options	Substitute
Seat Ø 2 mm version	1022
1/2" BSPP DN13 modified outlet port	1088
Chemical Nickel plated	10NC
Connectable spring housing 1/8" BSPP fitting	1063
G1/2 modified inlet port	1256
G1/2 DN13 modified outlet port	
Without relief valve	1018
VD gauge port (vertical position - inlet on the right)	
Without relief valve	1019
VG gauge port (vertical position - inlet on the left)	
Seat Ø 2 mm version	1029
VG gauge port (vertical position - inlet on the left)	
Without relief valve	1069
G1/2 DN13 modified outlet port	
Without relief valve	1072
Seat Ø 2 mm version	
G1/2 DN13 modified outlet port	1217
VG gauge port (vertical position - inlet on the left)	
Without relief valve	1316
VG gauge port (vertical position - inlet on the left) Seat Ø 2 mm version	
Without relief valve	1202
G1/2 DN13 modified outlet port	
Seat Ø 2 mm version	
Without relief valve	1493
G1/2 modified inlet port	
G1/2 DN13 modified outlet port	

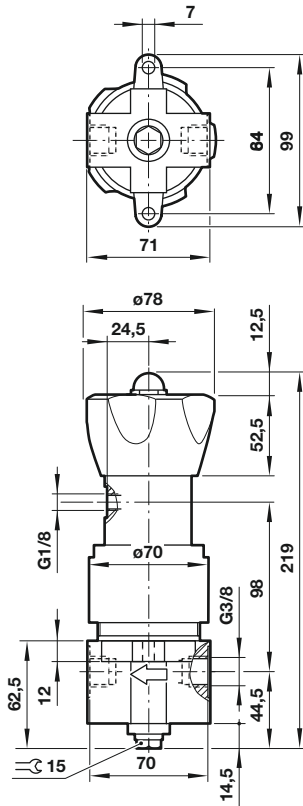
Repair and maintenance kits

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

Manufacture code	Substitute
Norgren internal use	
Elastomer	Substitute
NBR	N

Dimensions

 Dimensions in mm
 Projection/First angle

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.