- **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 optionnal 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 which is 5 Nm^3/h per Bar of absolute pressure downstream (internal Ø 4 mm and ports 3/8'') and 13 Nm^3/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^{-8} atm.cm^3/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

For more information please be in touch:
contact@imi-precision.fr

Option selector

D083LL★★N★★★★★★

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**
Vespel	**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 G1/2 DN13 modified outlet port	**1256**
Without relief valve VD gauge port (vertical position - inlet on the right)	**1018**
Without relief valve VG gauge port (vertical position - inlet on the left)	**1019**
Seat Ø 2 mm version VG gauge port (vertical position - inlet on the left)	**1029**
Without relief valve G1/2 DN13 modified outlet port	**1069**
Without relief valve Seat Ø 2 mm version	**1072**
G1/2 DN13 modified outlet port VG gauge port (vertical position - inlet on the left)	**1217**
Without relief valve VG gauge port (vertical position - inlet on the left) Seat Ø 2 mm version	**1316**
Without relief valve G1/2 DN13 modified outlet port Seat Ø 2 mm version	**1202**
Without relief valve G1/2 modified inlet port G1/2 DN13 modified outlet port	**1493**

Option selector service kits

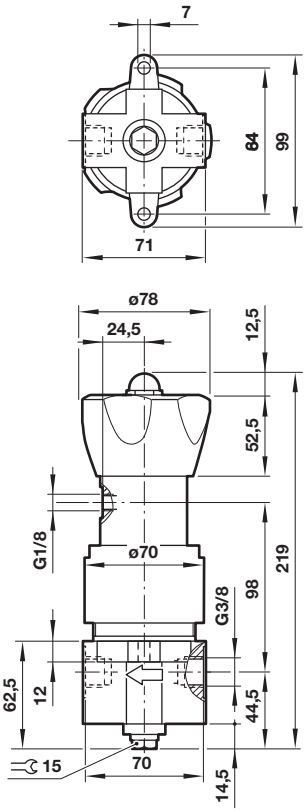
★D083★★★★★

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



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Warning

Do not use these products where pressures and temperatures can exceed those listed under **»Technical features«**.

Before using these products with fluids other than those specified within published specifications, consult IMI NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.
The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.
System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.