



EFDL Series

EVOTEK Pressure Filters

Product Description

- Operating pressure up to 25 bar
- 1300 l/min max. flow rate
- installation in line
- application in Lube oil systems, Power generation plants, Primary metal equipment, Pulp & paper equipment, Offshore drilling and oil patch and Flushing skids
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

Application :

Port Sizes:

Flow Rate:

Operating Pressure:

Burst Pressure:

Element Collapse Pressure:

By-pass Opening Pressure:

Clogging indicator setting:

Material

Seals:

Filter Head:

Filter Bowl:

Compatibility:

Tested according to ISO standards:

In-line duplex filter

Threaded Connections according to BSP standard in 1", 1-½" inch

Flange Connections in SAE DN25 & SAE DN40 & SAE DN50 & SAE DN65 3000psi, SAE&DIN DN80 3000psi, SAE&DIN DN100 3000psi max. 1300 l/min

max. 25 bar

min. 75bar

10 bar Cellulose

21 bar Fiberglass

30 bar Wire Mesh

$\Delta p = 3\text{bar} \pm 0.5\text{bar}$

$\Delta p = 2\text{bar} \pm 10\%$

NBR or FPM (-25°C to 100°C)

Cast iron

Cast iron

Suitable for mineral oils, lubrication oils, non-flam fluids, synthetic and rapidly biodegradable oils (for use with water or other fields please contact our technical department)

ISO2941 Collapse/burst resistance

ISO2942 Fabrication integrity

ISO2943 Material compatibility integrity

ISO3723 Method for end load test

ISO3724 Flow fatigue characteristics

ISO3968 Pressure Drop vs. Flow Rate

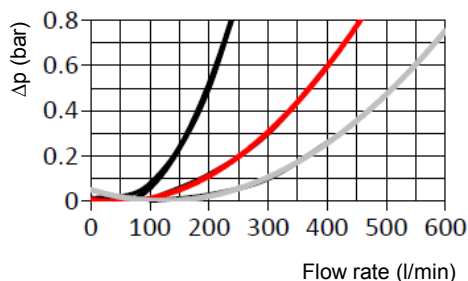
ISO16889 Multi-Pass Test

EFDL Pressure Filter Series

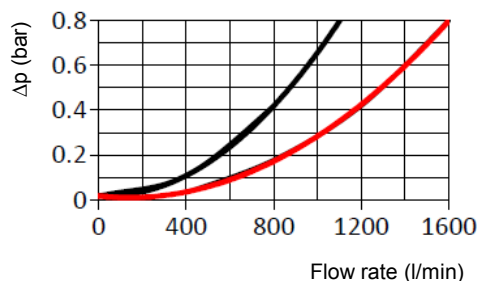
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

EFDL3, **EFDL6**, EFDL9 & 11



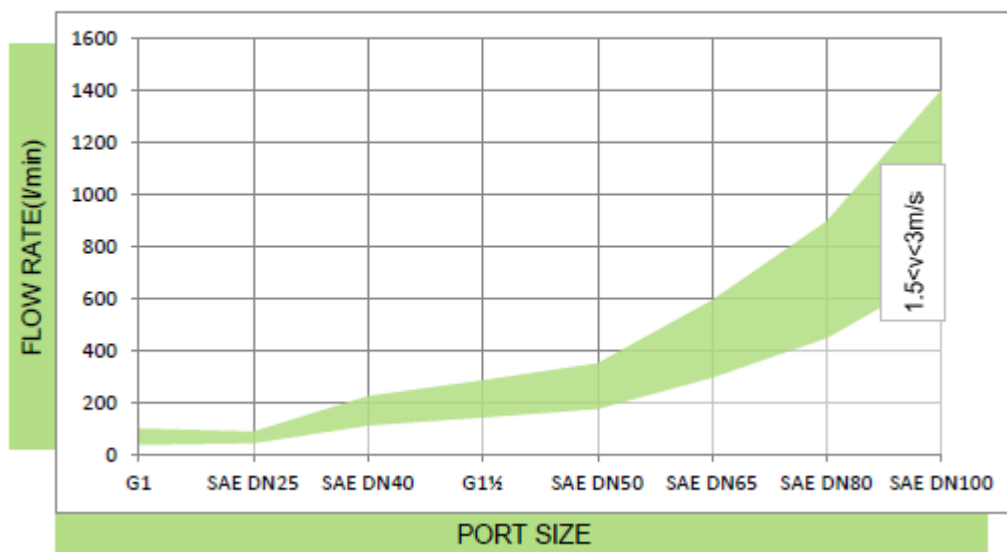
EFDL12 & 13, **EFDL14 & 16**



Graph of oil flow velocity

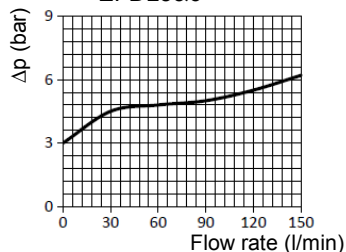
(we recommend to select size of the filter considering range of oil velocity between 1.5 to 3 m/s for return series)

Recommended range

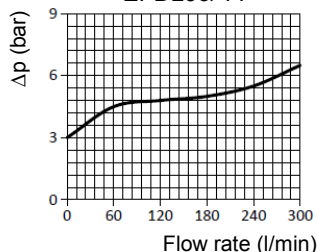


Pressure drop graph on by-pass valve

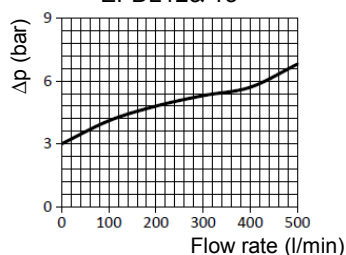
EFDL3&6



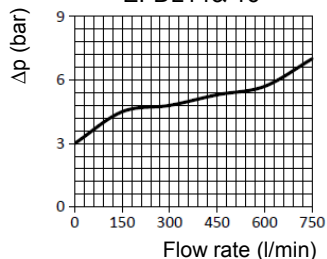
EFDL9& 11



EFDL12& 13



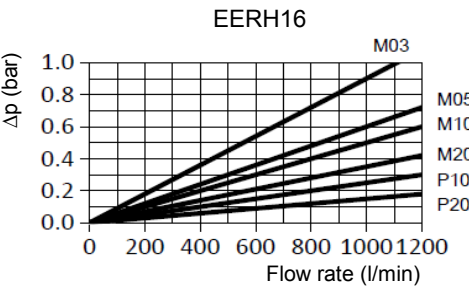
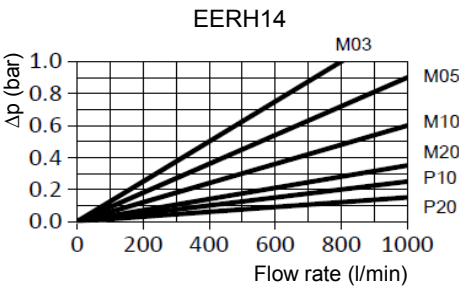
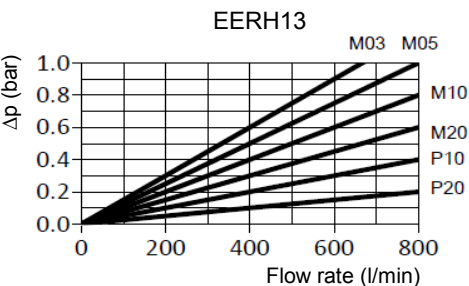
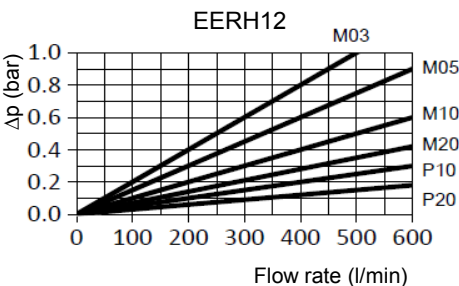
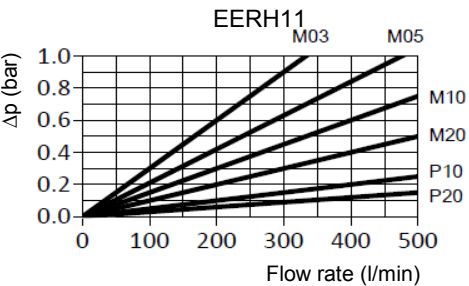
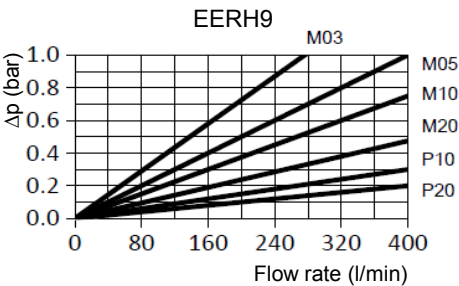
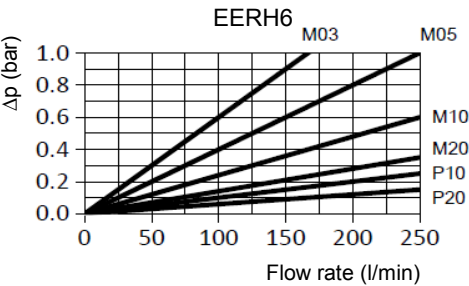
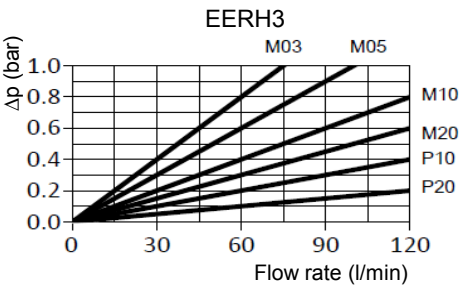
EFDL14& 16



EFDL Pressure Filter Series

Pressure Drop Graphs (Δp)

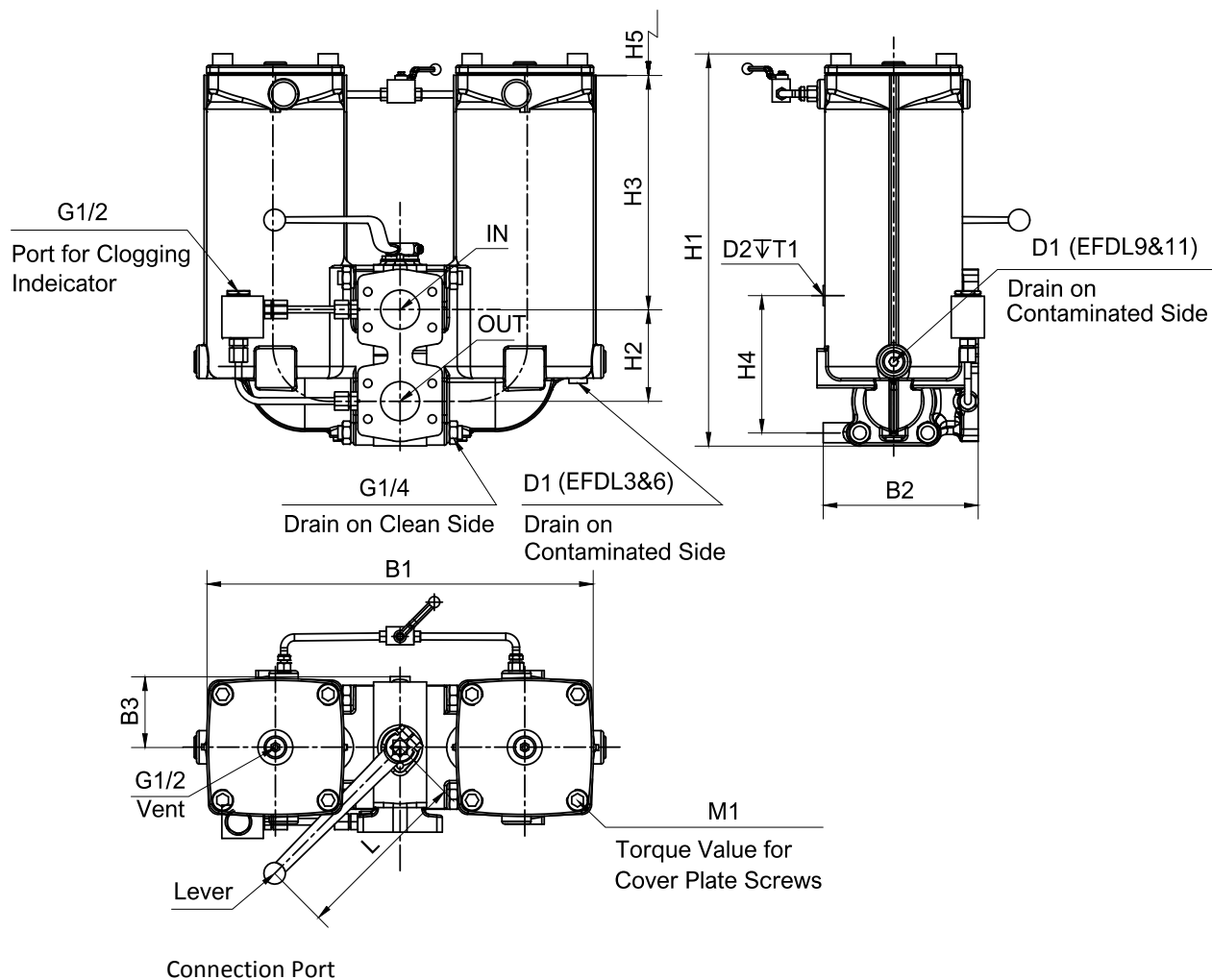
Pressure Drop with Clean Filter Elements (M and P filter media)



EFDL Pressure Filter Series

Technical Drawings and Dimension

EFDL3 to EFDL11



Type	Flange ¹	Thread ²	H/mm												
			B1	B2	B3	D1	D2	H1	H2	H3	H4	H5	L	M1	T1
EFDL3	DN25 (1")	G 1"	233	157	63	G ¼	M12	263	80	132	80	175	173	24 Nm	25
EFDL6	DN40 (1½")	G 1½"	302	167	75	G ¼	M12	321	95	155	140	210	216	40 Nm	18
EFDL9	DN40 (1½")	-	396	167	75	G ½	M12	302	95	145	140	200	216	45 Nm	18
EFDL9	DN50 (2")	-	380	187	85	G ½	M12	323	110	140	165	200	216	45 Nm	18
EFDL11	DN40 (1½")	-	396	167	75	G ½	M12	382	95	145	140	280	216	45 Nm	18
EFDL11	DN50 (2")	-	380	187	85	G ½	M12	400	110	140	165	280	216	45 Nm	18

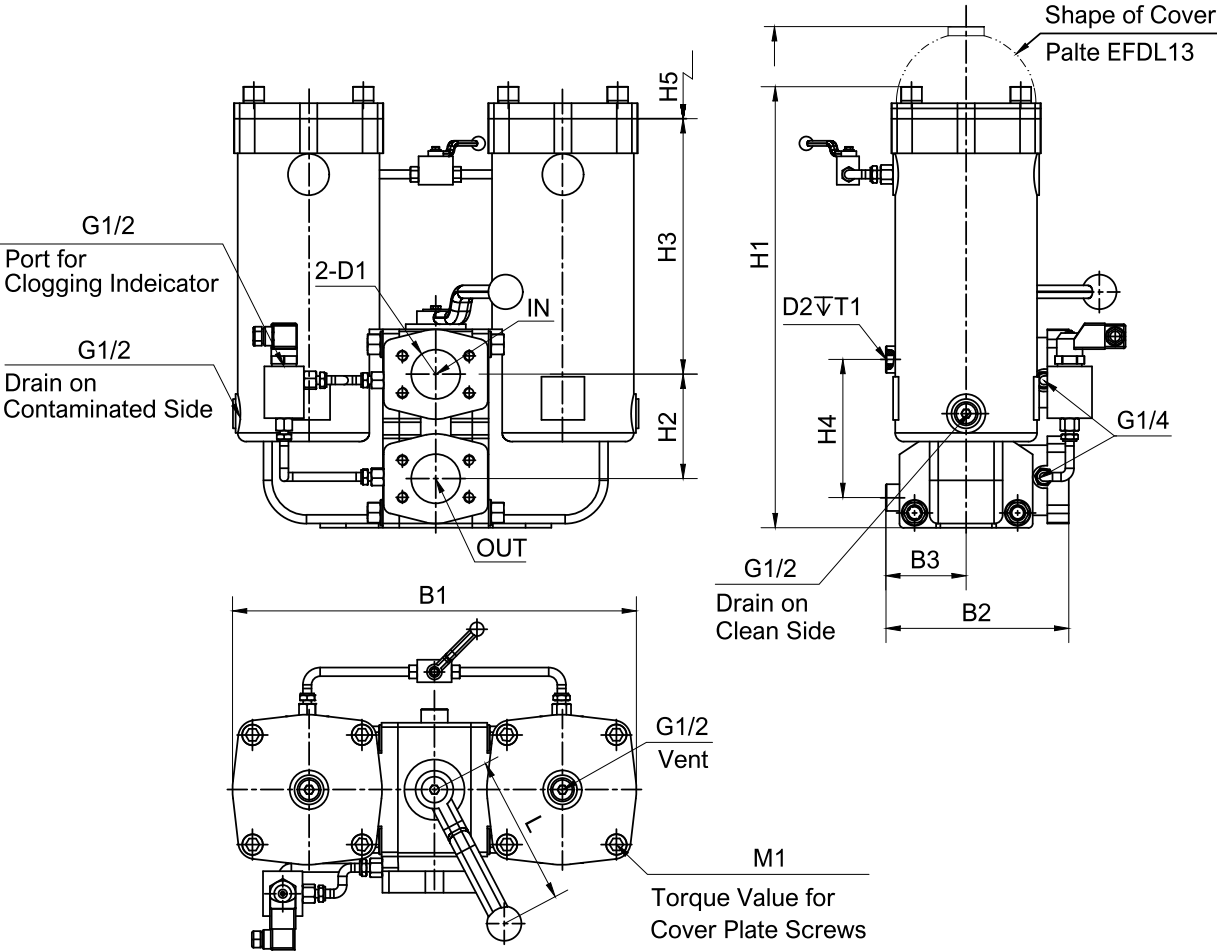
¹ Flanges according to SAE J518C, pressure range 3000 psi

² Threaded connection to ISO228

EFDL Pressure Filter Series

Technical Drawings and Dimension

EFDL12 to EFDL13



Connection Port
(Flange)

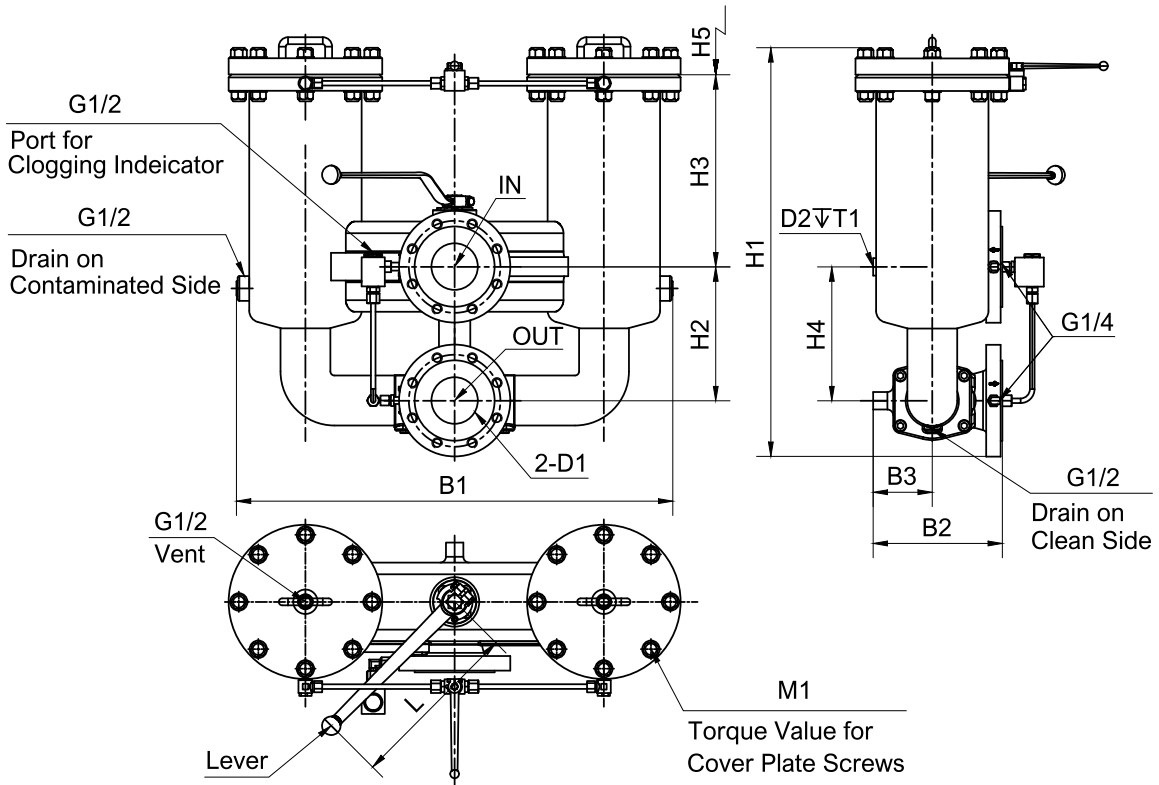
		H/mm											
Type	D1 Flange ¹	B1	B2	B3	D2	H1	H2	H3	H4	H5	L	M1	T1
EFDL12	SAE DN50 (2")	496	187	85	M12	460	110	282	165	340	216	150 Nm	18
EFDL12	SAE DN65 (2½")	496	237	85	M12	472	110	282	165	340	216	150 Nm	18
EFDL12	SAE/DIN DN80 (3")	490	222	102	M12	566	230	210	230	340	301	150 Nm	23
EFDL13	SAE DN50 (2")	496	187	85	M12	544	110	282	165	420	216	150 Nm	18
EFDL13	SAE DN65 (2½")	496	237	85	M12	556	110	282	165	420	216	150 Nm	18
EFDL13	DIN DN80 (3")	490	222	102	M12	650	230	210	230	420	301	150 Nm	23

1 flange SAE J518C (standard pressure 3000 psi) & DIN2501, pn25/40 (type "D" or "E" seals)

EFDL Pressure Filter Series

Technical Drawings and Dimension

EFDL14 to EFDL16



Connection Port
(Flange)

Type	D1 Flange ¹	H/mm											T1
		B1	B2	B3	D2	H1	H2	H3	H4	H5	L	M1	
EFDL14	DIN DN80 (3")	548	222	102	M12	595	230	243	230	370	301	250 Nm	23
EFDL14	DIN DN100 (4")	555	248	118	M16	640	250	238	250	370	301	250 Nm	23
EFDL16	DIN DN80 (3")	548	222	102	M12	701	230	243	230	490	301	250 Nm	23
EFDL16	DIN DN100 (4")	555	248	118	M16	746	250	238	250	490	301	250 Nm	23

1 flange SAE J518C (standard pressure 3000 psi) & DIN2501, pn25/40 (type "D" or "E" seals)

EFDL Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	-	D	E	-	F	Element Series	A	C	D	E
EFDL	3	BD	B	-	08	F03	-	2PE	EERH	3	B	08	F03

Select the code for each filter (or element) feature according to your requirements and place it in the sequence (see example above) to create the corresponding product order code.

A Size	Flow Rate	D By-pass Valve
3	110 l/min	0 NO
6	240 l/min	08 3bar
9	330 l/min	X Special
11	500 l/min	
12	660 l/min	
13	850 l/min	
14	950 l/min	
16	1300 l/min	
B Connection Ports		E Media Material Filtration Collapse Pressure
BD	BSP 1"	P10 Cellulose 10µm 10 bar
BF	BSP 1-½"	P20 Cellulose 20µm 10 bar
FC	SAE DN25 3000psi	M03 Fiberglass 5µm 21 bar
FE	SAE DN40 3000psi	M05 Fiberglass 7µm 21 bar
FF	SAE DN50 3000psi	M10 Fiberglass 12µm 21 bar
FG	SAE DN65 3000psi	M20 Fiberglass 21µm 21 bar
DH	SAE/DIN DN80 3000psi	Y25 Wire Mesh 25µm 30 bar
DI	SAE/DIN DN100 3000psi	Y60 Wire Mesh 60µm 30 bar
C Seal		F Indicator Connection
B	NBR	0 No
V	FPM	2PE 2bar Electrical BSP½" Thread
		2PB 2bar Visual/Electrical BSP½" Thread

Notes

[illegible]