



EFDA Series

EVOTEK Pressure Filters

Product Description

- Operating pressure up to 25 bar
- 400 l/min max. flow rate
- installation in line
- application in Ship steering, Continuous operation industrial systems and High flow flushing systems
- 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 and NPT standard in ½" , ¾" , 1" , 1-¼" , 1-½" and SAE08/SAE12/SAE16/SAE20/SAE24 threads

Flange Connections in SAE DN40 for 3000psi
max. 400 l/min

max. 25 bar(EFDA1,2,3,5,7,10)

max. 70 bar(EFDA5.1,7.1,10.1)

max. 15 bar(EFDA5.2,7.2)

min. 75 bar (EFDA1,2,3,5,7,10)

min. 210 bar (EFDA5.1,7.1,10.1)

min. 25 bar (EFDA5.2,7.2)

6bar or 21 bar Fibreglass

6bar or 30 bar Wire Mesh

$\Delta p = 3.5\text{bar} \pm 0.5\text{bar}$ or $\Delta p = 7\text{bar} \pm 0.5\text{bar}$

$\Delta p = 2.5\text{bar} \pm 10\%$ or $\Delta p = 5\text{bar} \pm 10\%$

NBR or FPM (-25°C to 100°C)

Aluminium

Aluminium (or steel EFDA5.2,7.2)

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

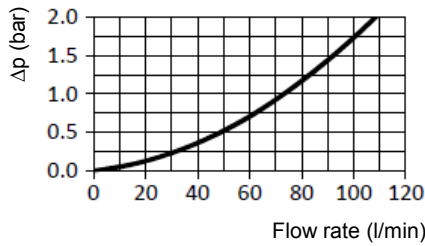
ISO3968 Pressure Drop vs. Flow Rate

ISO16889 Multi-Pass Test

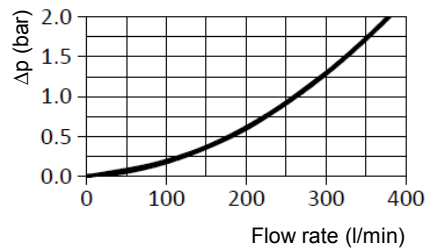
EFDA Pressure Filter Series

Pressure Drop Graphs (Δp)

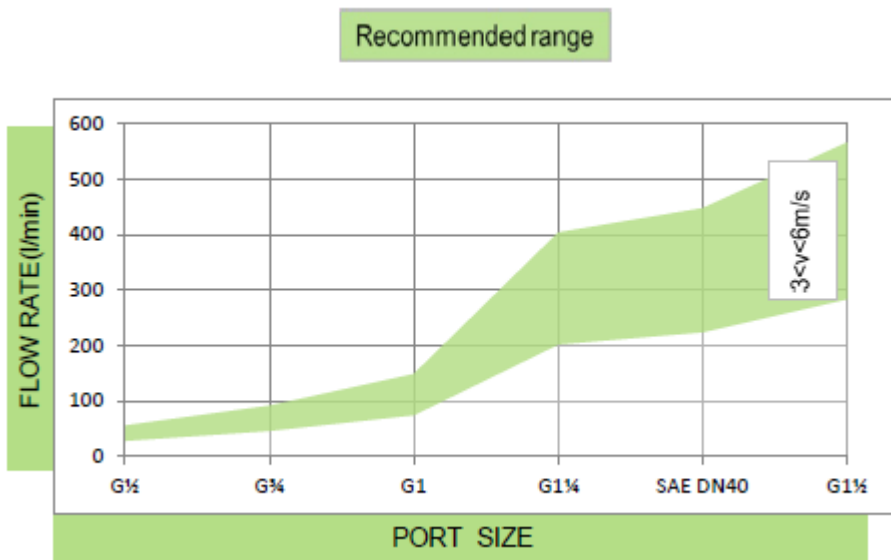
Pressure Drop of Filter Housing only
EFDA1,EFDA2&EFDA3



EFDA5, 7,10&EFDA5.1,7.1,10.1
&EFDA5.2,7.2

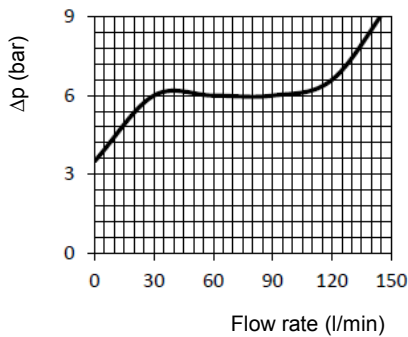


Graph of oil flow velocity
(we recommend to select size of the filter considering range of oil velocity between 3 to 6 m/s for return series)

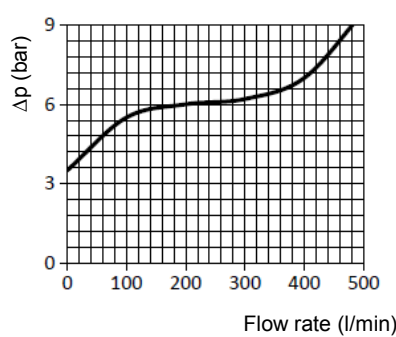


Pressure drop graph on by-pass valve

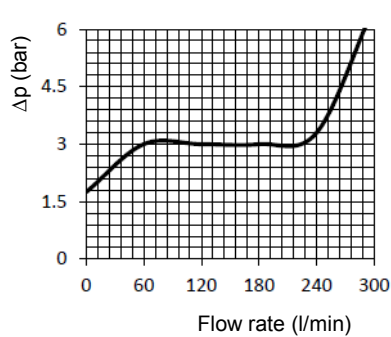
EFDA1,2& 3



EFDA5 ,7& 10



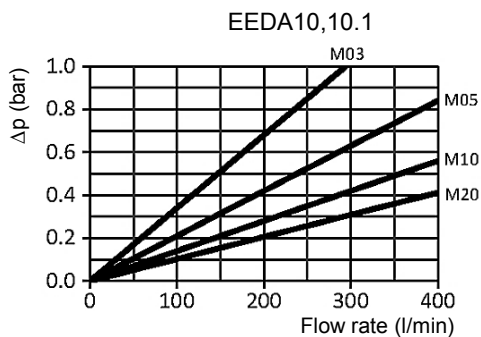
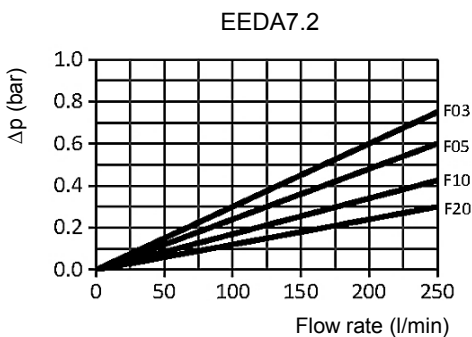
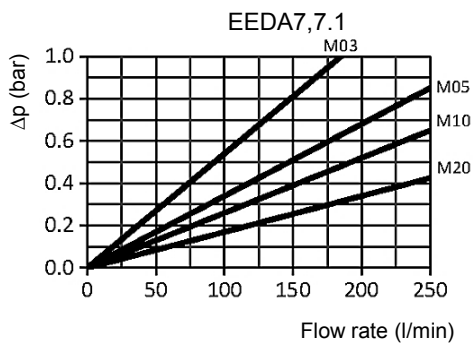
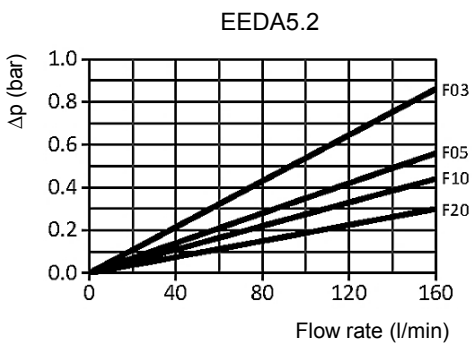
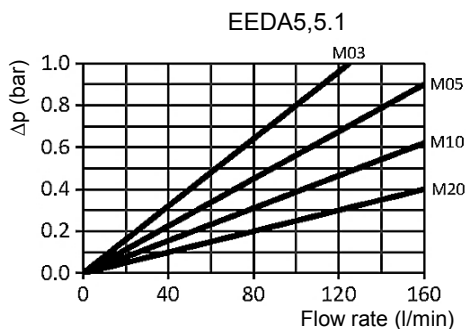
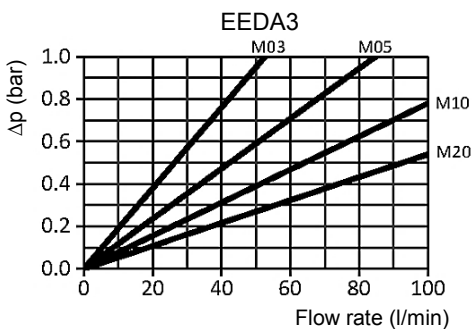
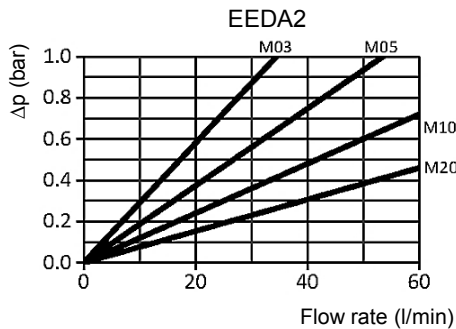
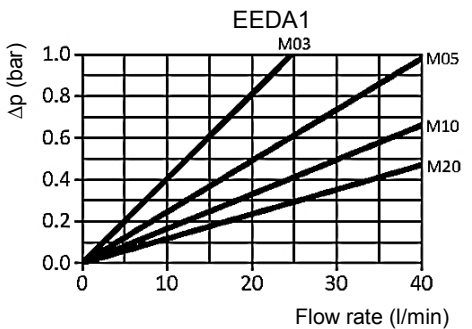
EFDA5.2 & EFDA7.2



EFDA Pressure Filter Series

Pressure Drop Graphs (Δp)

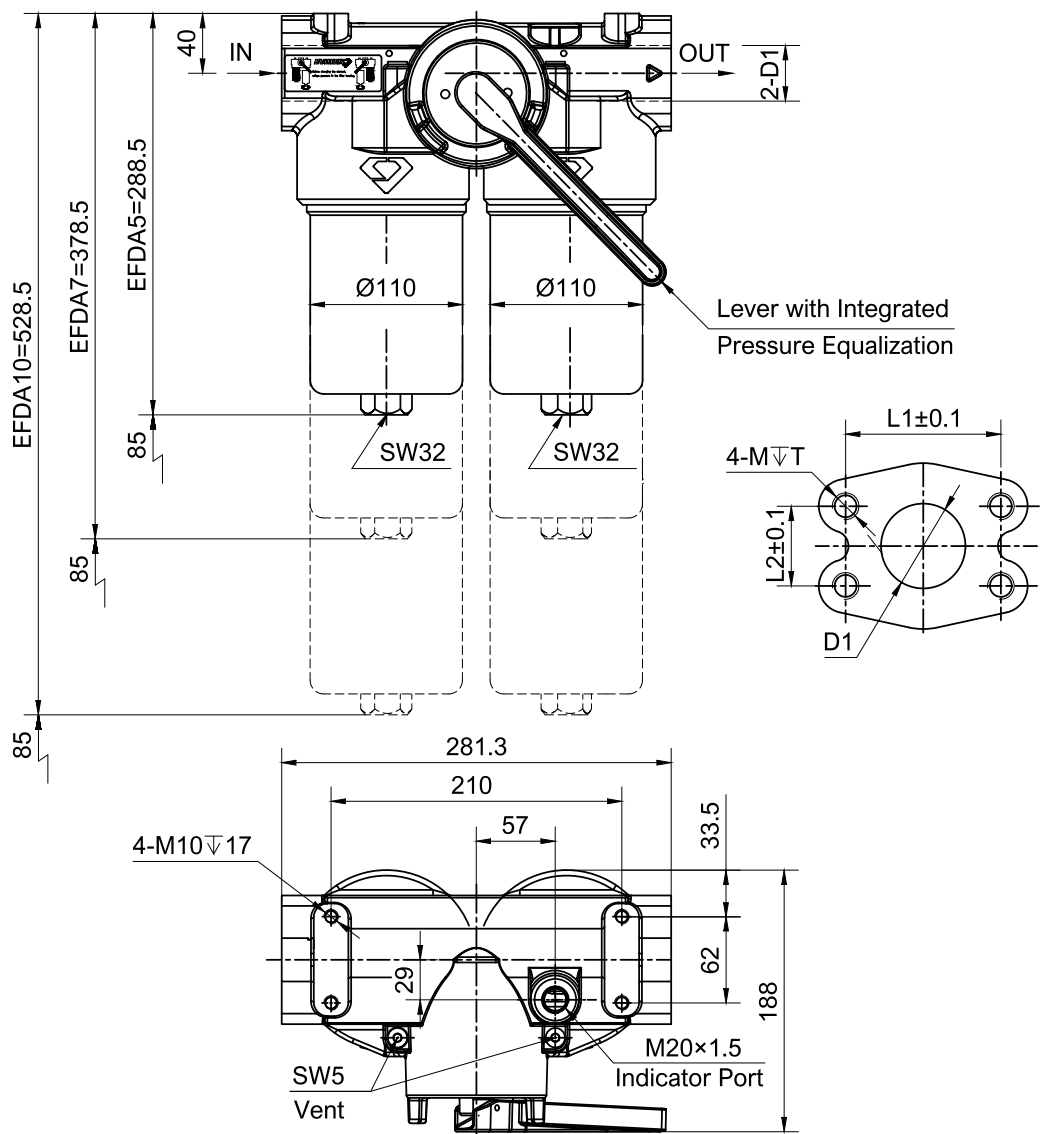
Pressure Drop with Clean Filter Elements (M filter media)



EFDA Pressure Filter Series

Technical Drawings and Dimension

EFDA5,7&10



Connection Port
(BSP/NPT/SAE)

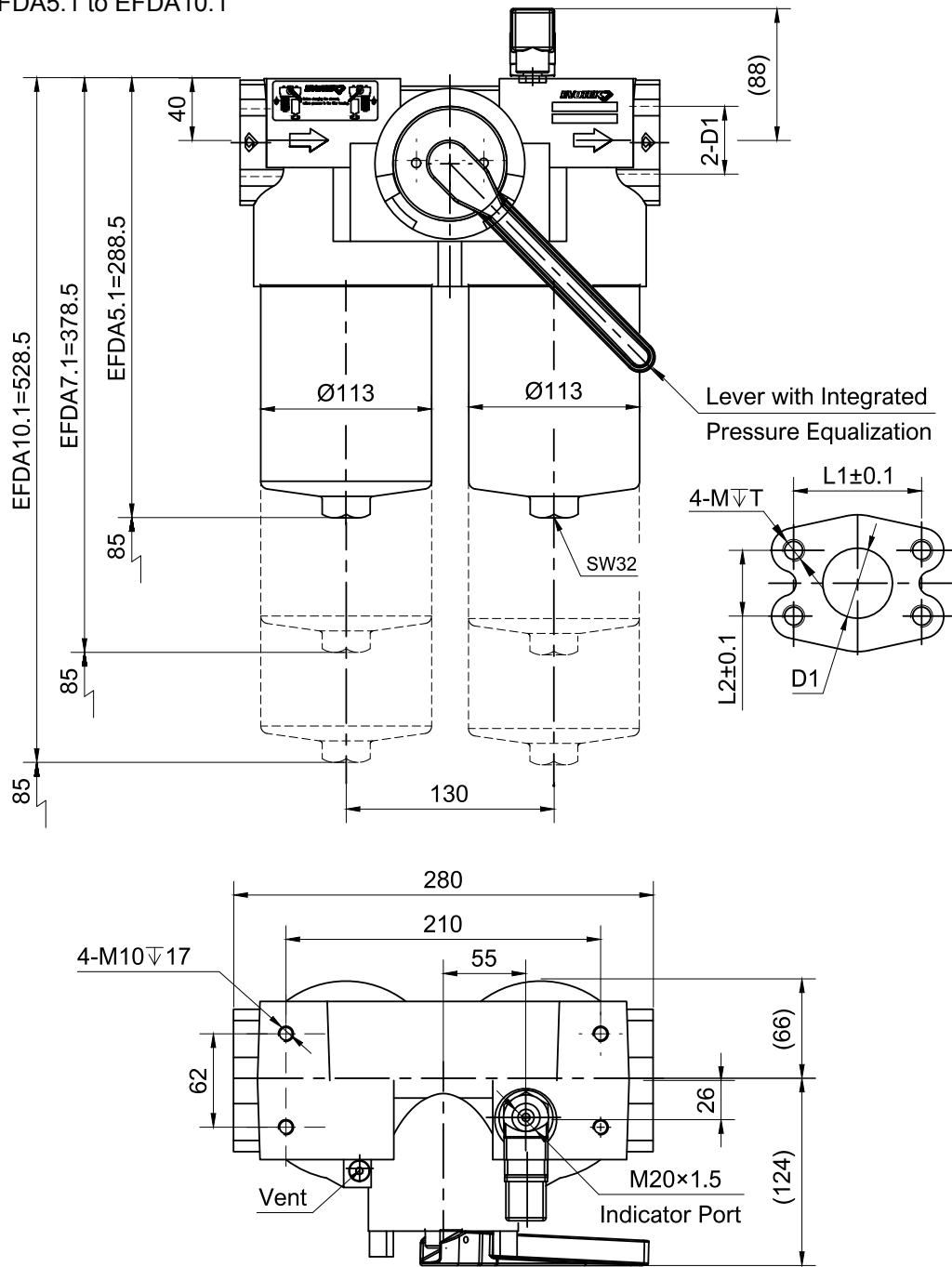
inch

Type	D1	L1	L2	M	T
EFDA5	1¼", SAE20	-	-	-	-
EFDA7	1½", SAE24	-	-	-	-
EFDA10	SAE DN40 3000 psi	69.9	35.7	12	23

EFDA Pressure Filter Series

Technical Drawings and Dimension

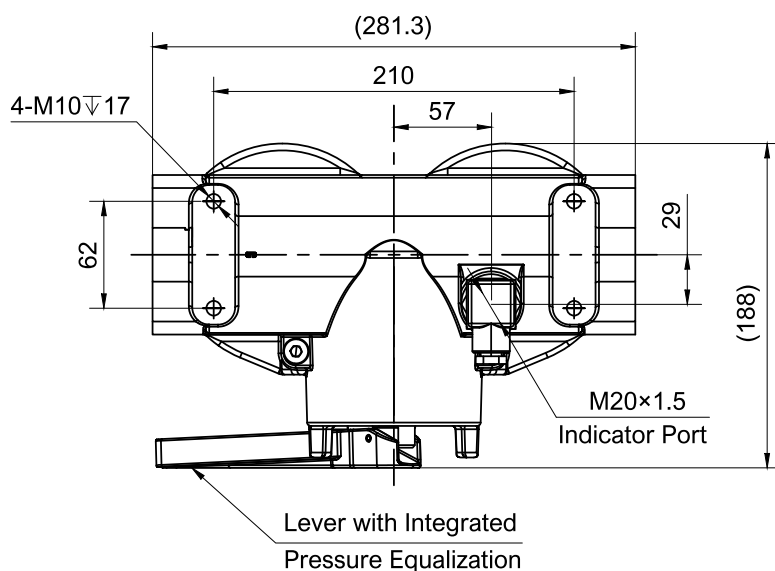
EFDA5.1 to EFDA10.1



Connection Port
(BSP/NPT/SAE)
inch

Type	D1	L1	L2	M	T
EFDA5.1	1¼", SAE20	-	-	-	-
EFDA7.1	1½", SAE24	-	-	-	-
EFDA10.1	SAE DN40 3000 psi	69.9	35.7	12	23

EFDA5.2 to EFDA7.2



inch

Type	D1	L1	L2	M	T
EFDA5 .2	1 1/4", SAE20	-	-	-	-
EFDA7 .2	1 1/2", SAE24	-	-	-	-
	SAE DN40 3000 psi	69.9	35.7	12	23

EFDA Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	D	-	E	-	F	Element Series	A	D	E
EFDA	5.2	BE	09	B	-	M10	-	V25	EEDA	5.2	B	M10

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
1	40 l/min
2	63 l/min
3	100 l/min
5	160 l/min
5.1	160 l/min
7	250 l/min
7.1	250 l/min
10	400 l/min
10.1	400 l/min

B Connection Ports
BB BSP ½"
BC BSP ¾"
BD BSP 1"
BE BSP 1-¼"
BF BSP 1-½"
NB NPT ½"
NC NPT ¾"
ND NPT 1"
NE NPT 1-¼"
NF NPT 1-½"
EB SAE08
EC SAE12
ED SAE16
EE SAE20
EF SAE24
FE SAE DN40 3000psi

C By-pass Valve
0 NO
9 3.5 bar
12 7 bar
X Special

D Seal
B NBR
V FPM

E Media Material	Filtration	Collapse Pressure
M03 Fiberglass	5µm	21 bar
M05 Fiberglass	7µm	21 bar
M10 Fiberglass	12µm	21 bar
M20 Fiberglass	21µm	21 bar
Y25 Wire Mesh	25µm	30 bar
Y60 Wire Mesh	60µm	30 bar
Y90 Wire Mesh	90µm	30 bar
Y125 Wire Mesh	125µm	30 bar

F Indicator	Connection	General model
0 NO		
2.5PV 2.5bar Visual indicator	BSP ½" Thread	EFDA1 ~ 3
2.5PB 2.5bar Visual / electrical	BSP ½" Thread	EFDA1 ~ 3
5PV 5.0bar Visual indicator	BSP ½" Thread	EFDA1 ~ 3
5PB 5.0bar Visual / electrical	BSP ½" Thread	EFDA1 ~ 3
V25 2.5bar Visual indicator	M20*1.5 Thread	EFDA5 ~ 10.1
E25 2.5bar Visual/ electrical	M20*1.5 Thread	EFDA5 ~ 10.1
V50 5.0bar Visual indicator	M20*1.5 Thread	EFDA5 ~ 10.1
E50 5.0bar Visual / electrical	M20*1.5 Thread	EFDA5 ~ 10.1

G Special	General model
RL Opposite direction	EFDA5,7,10

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Order Codes

Filter Assembly Series	A	B	C	D	-	E	-	F	Element Series	A	D	E
EFDA	5.2	BE	09	B	-	F10	-	V25	EEDA	5.2	B	F10

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	E Media Material	Filtration	Collapse Pressure
5.2	160 l/min	M03	Fiberglass 5µm	21 bar
7.2	250 l/min	M05	Fiberglass 7µm	21 bar
		M10	Fiberglass 12µm	21 bar
		M20	Fiberglass 21µm	21 bar
		Y25	Wire Mesh 25µm	30 bar
		Y60	Wire Mesh 60µm	30 bar
		Y90	Wire Mesh 90µm	30 bar
		Y125	Wire Mesh 125µm	30 bar
B Connection Ports		F Indicator		Connection
BE	BSP 1-¼"	0	NO	
BF	BSP 1-½"	V25	2.5bar Visual indicator	M20*1.5 Thread
NE	NPT 1-¼"	E25	2.5bar Visual/ electrical	M20*1.5 Thread
NF	NPT 1-½"			
EE	SAE20			
EF	SAE24			
FE	SAE DN40 3000psi			
C By-pass Valve				
0	No			
9	3.5bar			
D Seal				
B	NBR			
V	FPM			