

Valve

Catalog 2021

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Features and Handling

• WE Series is a direct solenoid operated directional spool valve. The valve porting pattern follows DIN 24 340 form A. The Valves come with wet pin DC or AC solenoids with removable coil which can be rotated through 90 degree.

• The standard valves come with DIN 43650 electrical connector with light and manual override to permit the spool to be moved without the solenoid being energized.

• For correct operation, ensure that the solenoid pressure chamber is filled with oil. Do not exceed permissible voltage range of the coil.

• Keep surge pressure below the maximum permissible back pressure port T. Keep hydraulic oil clean at ISO cleanliness code 19/16



Specification

Model	Maximum Flow L/min (USgpm)	Maximum Pressure bar (psi)	Weight kg (lb)		
4HWE 6	60 (15.8)	300	Single coil 1.6 (3.52) Double coil 2.4 (5.28)		
4HWE10	100 (26.4)	(4350)	Single coil 4.5 (9.9) Double coil 6.2 (13.6		

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change at any time without notice.



Symbols

Notes

1. With ../O and ../OF, spool A, C, and D can come without spring return with or without detent.

2. With ordering a spool with only two position "0" & "a" or or "0" & "b", specify the desired position a or b after the spool code.

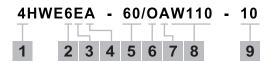
Example : Spool E with spool position "a"

Ordering code : 4HWE6EA-60/0AW110-10

A B A b P'T'	$a \square a \square b \square b \square b$	A ₁ B ₁ a 0 b P ¹ T ¹	a <mark>∭ a 0 b M</mark> b	
A ₁ B ₁ a b P'T'	a <mark>⊠a b</mark> ⊾b/O		a <mark>∠a]0</mark> H =A	
A B P'T'	a a b/OF	A ₁ B ₁ 0 b P ¹ T ¹	$M_{\mathbf{p}_{1}\mathbf{T}_{1}}^{\mathbf{A}_{1}\mathbf{B}_{1}} =\mathbf{B}$	
	= A		[X] ^{⊥⊥} I¶I = E	
XX	= C			$\left \begin{array}{c} \mathbf{X} \\ \mathbf{X} \\$
	= D		↑ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	
		X + + + + ↑	X = H	T = T
a; b	a∭a_b b			$\left[\begin{array}{c} \mathbf{X} \\ \mathbf{T} \end{array} \right]_{\mathbf{T}}^{\perp} \mathbf{V} \\ \mathbf{V} \\$
	⊨ = B			
	Y = Y			



Ordering Code



1. Number of port

4 - 4 ports

2. Valve Size

6 - NG6 (CETOP3) 10 - NG10 (CETOP5)

- 3. Spool type (see the table below)
- 4. Three position spool with solenoid A only = A solenoid B only = B
- 5. Design
 - 60 for HWE6
 - 30 for HWE10
- 6. Spring and Detent
 - S Spring return
 - 0 Without Spring return
- 7. Coil type
- Wet pin oil immersed with removable coil
- 8. Coil Voltage

А

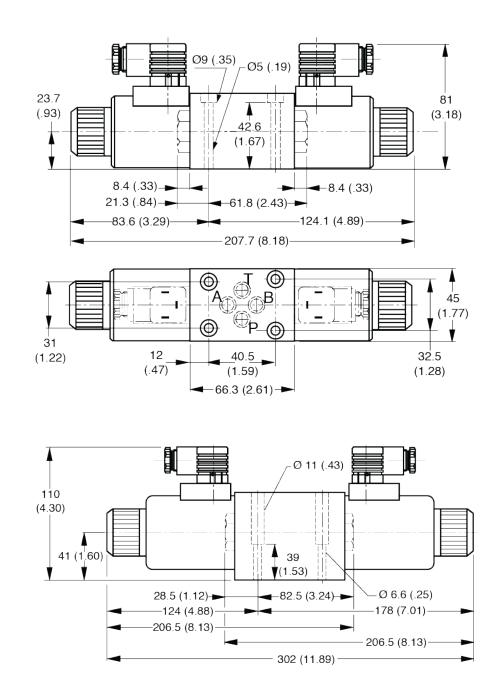
vollaye	
G12	- 12V DC
G24	- 24V DC
W220	- 220V AC 50/60 Hz
W110	- 110V AC 50/60 Hz

9. Further detail for future use



Installation Dimension mm (inch)

4HWE 6



91 (3.58)-54

(2.12)

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€ТВ

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€19 (.75)

4HWE 10



46

⊗−

TA 🕁

70

(2.76) (1.81)



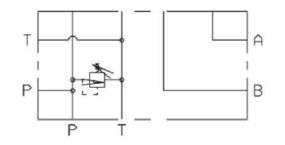
Single Station Subplate HM Series

Features and Handling

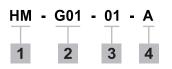
- · Solenoid Valve / Cetop 3 interface
- Max Relief Pressure 240 bar
- Side / Rear Entry
- 3/8" BSP Ports



Symbols



Ordering Code



- 1. Model : HM Single Station Subplate
- 2. Valve size

G01 - NG06 (CETOP3)

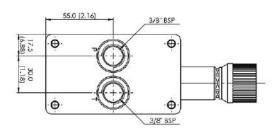
- 3. Service Valve
 - 01 With relief valve
 - 02 Without relief valve
- 4. Pressure Range
 - A 7-70 bar (100-1000 psi)
 - B 35-140 bar (500-2000 psi)
 - C 70-240 bar (1000-3500 psi)

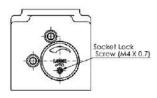


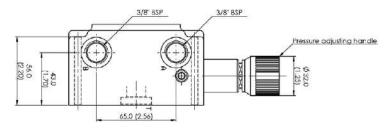
Single Station Subplate HM Series

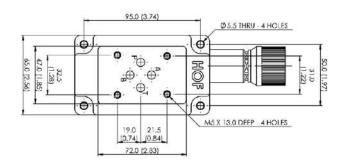
Installation Dimension mm (inch)

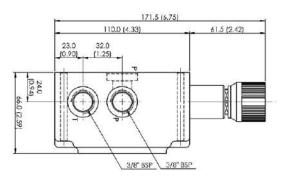
HM-G01-01













Pressure Switch P-02 Series

Features and Handling

• P-02 is a spring loaded piston type pressure switch. The pressure of hydraulic oil acts on the piston in the pressure switch. The piston acts against the infinitely adjustable force of the spring which transfers the movement of the piston to the switch to open or close the electrical contact.

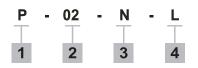
• Knob Set Screw is available for panel mounting.

• For installation, the pressure switch should be mounted in such a way as to prevent them being subject to vibration.

Specification

Model	Valve Size	Pressure Range bar (psi)	Electrical Rating	Usage	
P-02 (L)	1 / 411	1-70 (14 - 1000)	DC 24V	Undraulia Oil	
P-02 (H)	- 1/4"	1-400 (140 - 5800)	AC 110-250V/3A	Hydraulic Oil	

Ordering Code

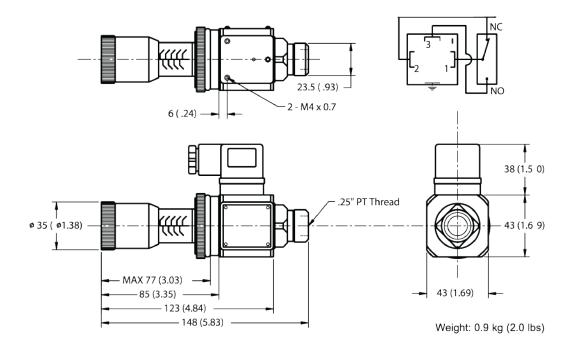


- 1. Model : P-02
- 2. Valve size 02 - 1/4"
- 3. Port Connection (Threaded connection only) P - 1/4" BSPT N - 1/4" NPT
- 4. Pressure Range
 - H 10-400 bar (140-5800 psi) L - 1-70 bar (14-1000 psi)



Pressure Switch P-02 Series

Installation Dimension mm (inch)





Features and Handling

• RB series are Balanced Piston type relief valves with three pressure ranges available. The valves come with optional Vent port and Gauge port. The valves can be controlled by Solenoid Operated Directional Control valve with optional cover setting for mounting the Solenoid Operated Directional Control valve on top.

• To adjust the set pressure, loosen the lock nut of the valve and turn the handle to adjust the pressure. Maintain the back pressure at the tank port as low as possible, less than 2 bar (28 psi).



Symbols

Specification

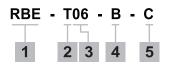
Model	Maximum Flow L/min (USgpm)	Maximum Pressure bar (psi)	Weight kg (lb)		
RB-G03	20 (0)		4.30 (9.5)		
RBE-G03	30 (8)		4.40 (9.7)		
RB-T04	80 (21)		2.40 (5.3)		
RB-T06			4.30 (9.5)		
RB-G06	175 (46)	240 (3500)	7.20 (15.8)		
RBE-T06	175 (46)		4.40 (9.7)		
RBE-G06			7.20 (15.8)		
RB-T10	454 (100)		6.70 (14.7)		
RBE-T10	454 (120)		8.40 (18.50)		

Gauge P P P Vent Vent

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Ordering Code



1. Model Series

RB - Standard Cover

RBE - Cover for mounting CETOP 3 or NG6 Solenoid Valve (size 06 and size10 only)

2. Mounting T

Т	 Threaded connections
G	- Gasket mounting (size 0

- Gasket mounting	(size 03 and size 06
only)	

3. Valve Size

03	- 3/8"
04	- 1/2"
06	- 3/4"

10 - 1-1/4"

4. Threaded Size (Threaded connections only)

RB-T04

Code	Thread size
Р	1/2" BSPT
В	1/2" BSP

RB-T06 or RBE-T06

Code	Thread size
Ν	3/4" NPT
В	3/4" BSP
S	SAE #12

RB-T10 or RBE-T10

Code	Thread size
Ν	1-1/4" NPT
В	1-1/4" BSP
S	SAE #20

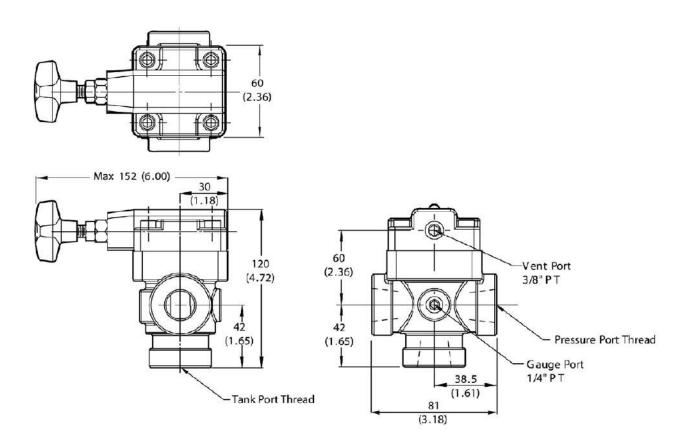
5. Pressure Range

- A 7-70 bar (100-1000 psi)
- B 35-140 bar (500-2000 psi)
- C 70-240 bar (1000-3500 psi)



Installation Dimension mm (inch)

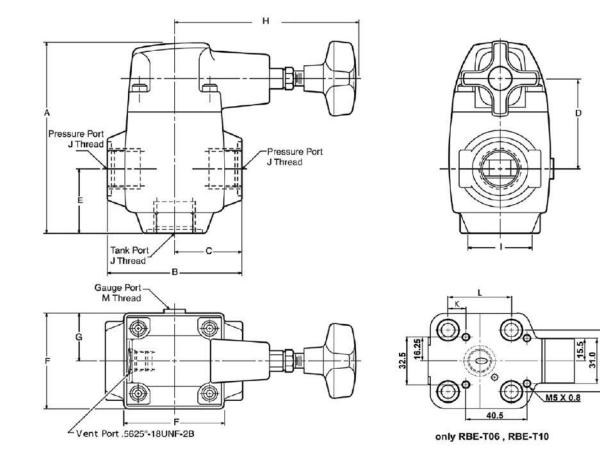
RB-T04





Installation Dimension mm (inch)

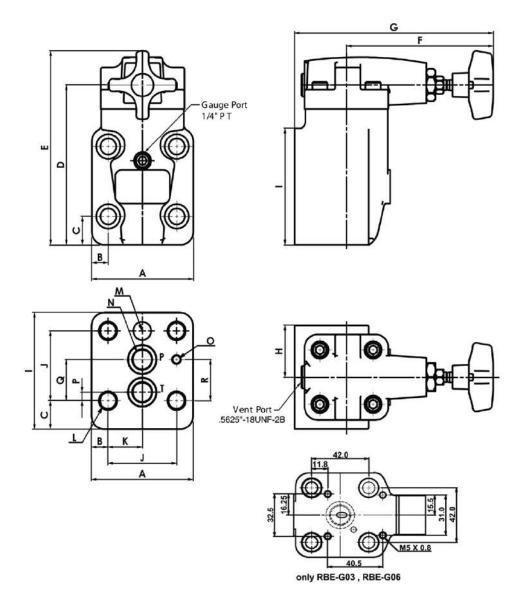
RB-T06, RBE-T06, RB-T10, RBE-T10



Medel		Dimension mm (inch)											
Model	Α	В	С	D	Е	F	G	Н	I	J	К	L	М
RB-T06 RBE-T06	128.8	92.5	46.3	63.0	45.5	73.0	36.5	134.0	57.0	3/4" NPT 3/4" BSP 1.0625" - 12UN-2B	11.8	42.0	1/4"PT
RB-T010 RBE-T010	157.2	124.0	61.9	66.5	61.9	83.3	41.7	134.0	61.9	1-1/4" NPT 1-1/4" BSP 1.0625" - 12UN-2B	6.75	54.0	.4375"-20UNF-2B

Installation Dimension mm (inch)

RB-G03, RBE-G03, RB-G06, RBE-G06



Model		Dimension mm (inch)																
	Α	В	С	D	Е	F	G	н	I	J	К	L	М	N	0	Ρ	Q	R
RB-G03 RBE-G03	80.0	13.0	23.0	123.5	150.0	134.0	175.0	40.0	90.0	54.0	27.0	Ø 12.5	Ø1.8	Ø 16.0	Ø 6.0	6.6	31.8	31.8
RB-G06 RBE-G06	103.0	16.5	17.6	148.5	175.0	134.0	175.0	51.5	113.5	66.7	33.35	Ø 17.0	Ø 3.0	Ø 24.0	Ø 6.3	11.2	49.2	23.9



Remote Control Relief Valve RM Series

Features and Handling

• RM series are Direct type relief valves with three pressure ranges available. They can be used as remote control relief valve when they are connected to the vent port of any balanced piston type relief valves.

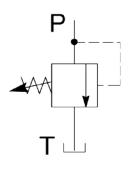
• To adjust the set pressure, loosen the lock nut of the valve and turn the handle to adjust the pressure. Maintain the back pressure at the tank port as low as possible, less than 2 bar (28 psi).



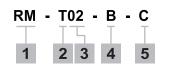
Specification

Model	Maximum Flow L/min (USgpm)	Maximum Pressure bar (psi)	Weight kg (lb)
RM-T02	12 (3.2)	240	1.5 (3.3)
RM-G02	2 (0.5)	(3500)	1.4 (3.1)

Symbols



Ordering Code



- 1. Model : RM
- 2. Mounting T

G

- Threaded connections - Gasket mounting
- 3. Valve Size
 - 02 1/4"

4. Threaded Size (Threaded connections only)

Code	Thread size
N	1/4" NPT
В	1/4" BSP

5. Pressure Range

С

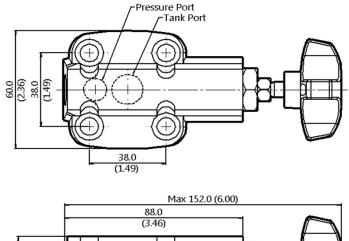
- A 7-70 bar (100-1000 psi)
- B 35-140 bar (500-2000 psi)
 - 70-240 bar (1000-3500 psi)

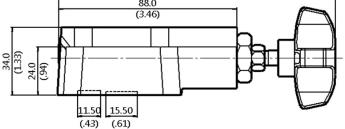


Remote Control Relief Valve RM Series

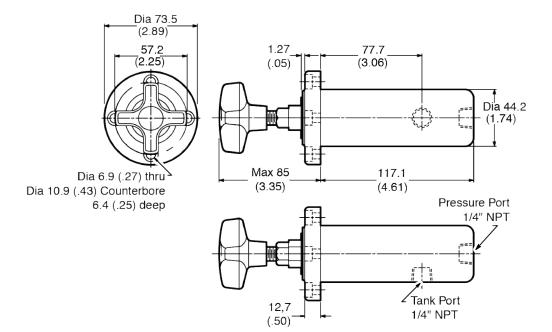
Installation Dimension mm (inch)

RM-G02





RM-T02





Flow Control Valve CF Series

Features and Handling

• CF Series are flow control valves with check valve. The valves control the flow in one direction and allow free flow in the other direction. With two step control range, the first three turns of the knob can control fine adjustment of low flow and the next three turns can open the valve of full flow. The knob comes with numeric indicator.



Specification

Model	Maximum Flow L/min (USgpm)	Maximum Pressure bar (psi)	Weight kg (lb)		
	E/min (Oogpin)	bai (psi)			
CF-T02	19 (5)		0.30 (0.66)		
CF-T03	30 (8)	350	0.40 (0.88)		
CF-T04	57(15)	(5070)	0.70 (1.54)		
CF-T06	95 (25)		1.00 (2.20)		

Ordering Code



- 1. Model : CF
- 2. Mounting

Т

- Threaded connections

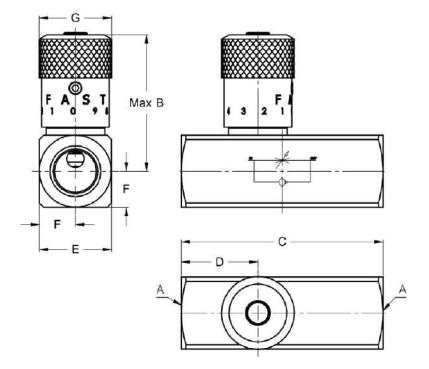
3. Valve size

02	- 1/4"
03	- 3/8'
04	- 1/2'
06	- 3/4'



Flow Control Valve CF Series

Installation Dimensions mm (inch)



	Dimension mm (inch)							
Model	A Thread	В	С	D	E	F	G	
CF-T02	1/4"NPT	40.4 (1.59)	66.5 (2.62)	26.6 (1.05)	25.4 (1.00)	12.7 (0.50)	20.6 (0.81)	
CF-T03	3/8"NPT	55.4 (2.18)	70.0 (2.75)	26.6 (1.05)	25.4 (1.00)	12.7 (0.50)	25.2 (0.99)	
CF-T04	1/2"NPT	68.6 (2.70)	87.0 (3.42)	33.0 (1.30)	31.7 (1.25)	15.9 (0.63)	29.8 (1.17)	
CF-T06	3/4"NPT	85.9 (3.38)	98.5 (3.88)	37.5 (1.48)	38.1 (1.50)	19.05 (0.75)	34.9 (1.37)	

*CF-T08 and CF-T10 are available upon request.



Features and Handling

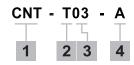
 CNT Series are check valve with optional cracking pressure. The valves allow free flow in one direction and shut-off in the other direction. The valve comes with flow rate ranges from 30L/min to 500 L/min and port size from 3/8" to 2".



Specification

Model	Maximum Flow	Maximum Pressure	Weight		
Model	L/min (USgpm)	bar (psi)	kg (lb)		
CNT-T03	30 (7.9)		0.15 (0.33)		
CNT-T04	50 (13.2)		0.29 (0.63)		
CNT-T06	140 (36.9)		0.48 (1.05)		
CNT-T08	220 (58.1)	315 (4600)	0.90 (1.98)		
CNT-T10	320 (84.5)		2.00 (4.40)		
CNT-T12	430 (113.59)		2.50 (5.50)		
CNT-T16	500 (132.08)		3.00 (6.61)		

Ordering Code



1. Model : CNT

2. Mounting

Т

- Threaded connections

3. Valve size 03 - 3/8" 04 - 1/2" 06 - 3/4" - 1" 80 10 - 1-1/4" 12 - 1-1/2" 16 - 2"

4. Cracking Pressure

- 0.5 bar (7 psi) А В

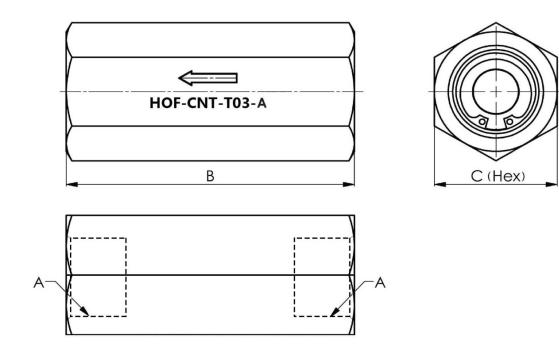
- 4.0 bar (58 psi)

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1



Installation Dimensions mm (inch)



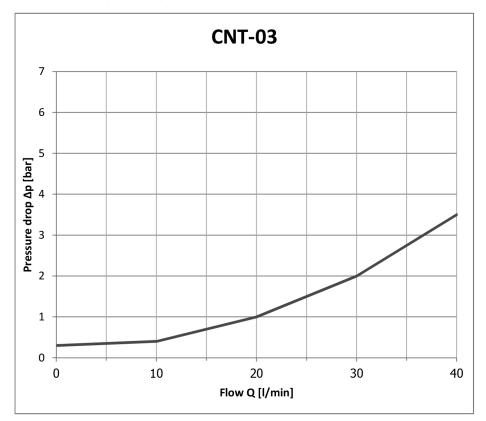
	Dimension mm (inch)						
Model	A Thread	В	С				
CNT-T03	3/8"BSP	58.0 (2.28)	24.0 (0.94)				
CNT-T04	1/2"BSP	72.0 (2.83)	30.0 (1.18)				
CNT-T06	3/4"BSP	85.0 (3.34)	36.0 (1.41)				
CNT-T08	1"BSP	98.0 (3.85)	46.0 (1.81)				
CNT-T10	1-1/4"BSP	120.0 (4.72)	60.0 (2.36)				
CNT-T12	1-1/2"BSP	138.0 (5.43)	65.0 (2.55)				
CNT-T16	2" BSP	155.0 (6.10)	75.0 (2.95)				

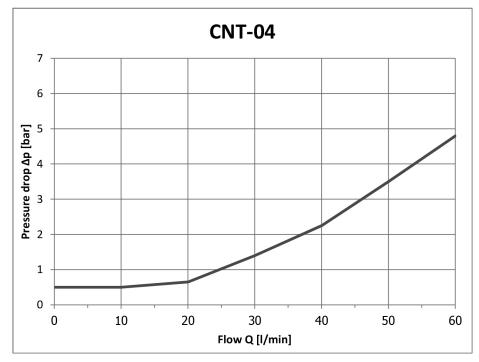


Performance Characteristics

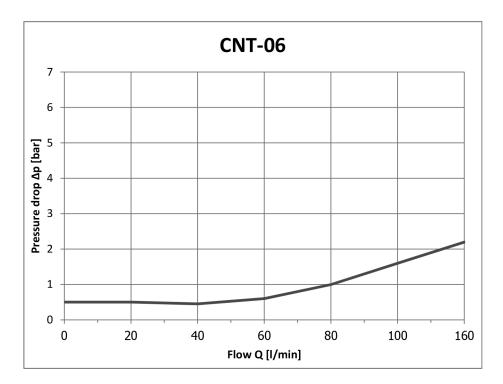
Pressure Drop

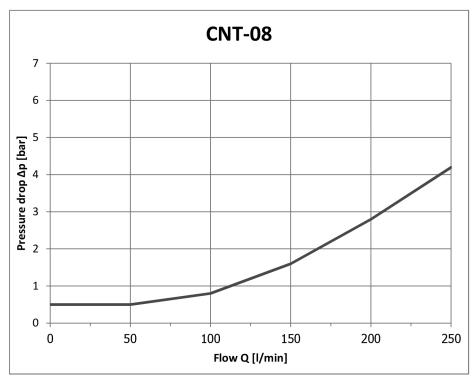
Characteristics measured at v = 32 cSt (156 SUS)



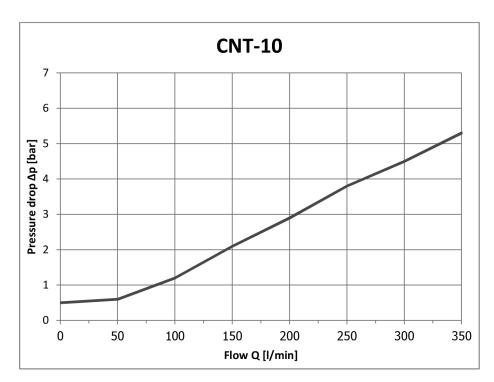


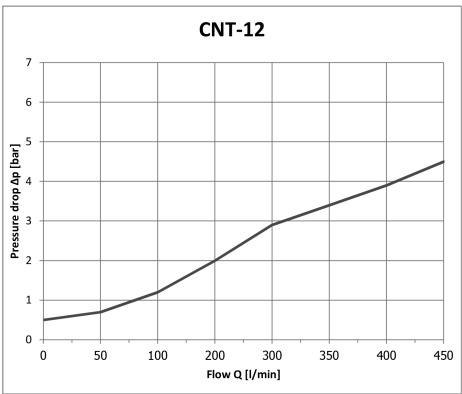




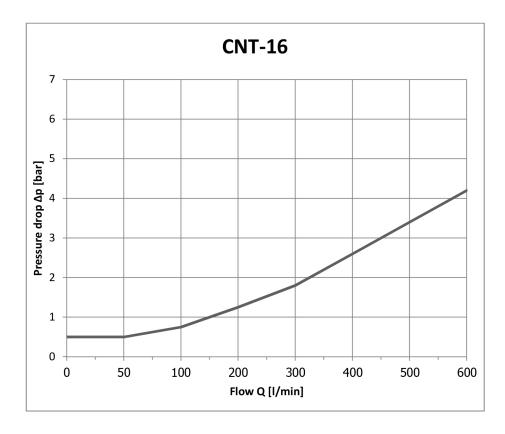












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