

Counterbalance, standard poppet type

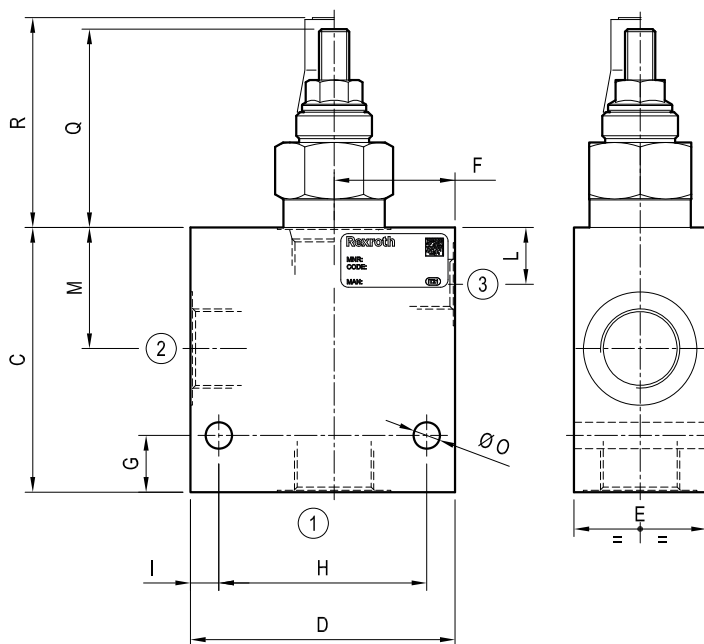
Common cavity

Cartridge style in manifold

VBSN-C

OY.02 - K - X - Y - Z - W

Dimensions



Technical data

Max flow: up to 320 l/min (85 gpm)

Max operating pressure
for **steel** body: 350 bar (5000 psi)

Max operating pressure
for **aluminium** body: 210 bar (3000 psi)

To order only manifold see data sheet RE 18325-85

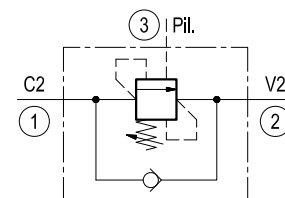
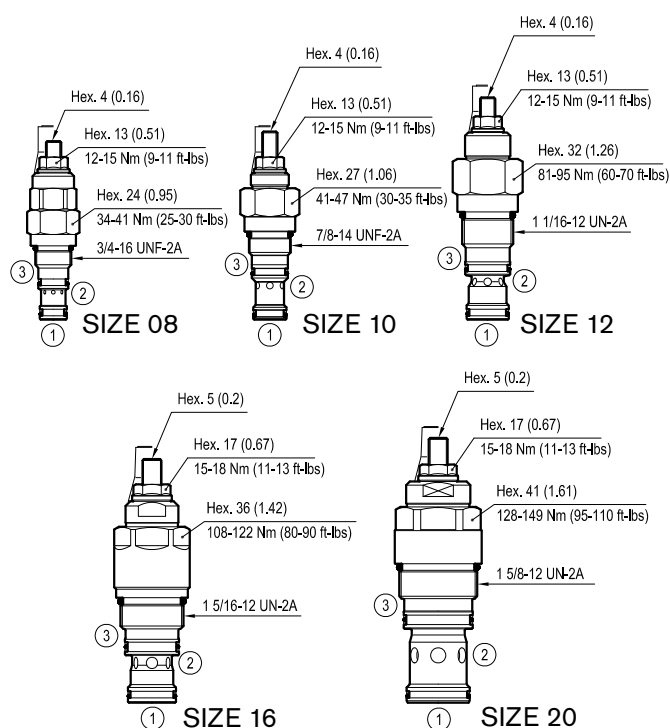


Table "Y"

Cavity	Y	PORT SIZE		Max Flow l/min (gpm)	DIMENSIONS mm (Inches)												
		1 - 2	3		C	D	E	F	G	H	I	L	M	N	O	Q	R
SIZE 08	09	G 1/4	G 1/4	30 (8)	60 (2.36)	60 (2.36)	30 (1.18)	30 (1.18)	15 (0.59)	45 (1.77)	7.5 (0.3)	13 (0.51)	27 (1.06)		7 (0.28)	55 (2.17)	64 (2.52)
	02	G 3/8	G 1/4		60 (2.36)	60 (2.36)	30 (1.18)	30 (1.18)	15 (0.59)	45 (1.77)	7.5 (0.3)	13 (0.51)	27 (1.06)		7 (0.28)		
SIZE 10	02	G 3/8	G 1/4	60 (16)	70 (2.76)	60 (2.36)	35 (1.38)	30 (1.18)	15 (0.59)	45 (1.77)	7.5 (0.30)	15 (0.59)	32 (1.26)		7 (0.28)	53 (2.09)	59 (2.32)
	03	G 1/2	G 1/4		70 (2.76)	70 (2.76)	35 (1.38)	32 (1.26)	15 (0.59)	55 (2.17)	7.5 (0.30)	15 (0.59)	32 (1.26)		7 (0.28)		
SIZE 12	03	G 1/2	G 1/4	120 (32)	80 (3.15)	75 (2.95)	40 (1.58)	35 (1.38)	15 (0.59)	55 (2.17)	10 (0.39)	24 (0.95)	42 (1.65)		9 (0.35)	61 (2.4)	67 (2.64)
	04	G 3/4	G 1/4		90 (3.54)	75 (2.95)	40 (1.58)	35 (1.38)	15 (0.59)	55 (2.17)	10 (0.39)	24 (0.95)	42 (1.65)		9 (0.35)		
SIZE 16	04	G 3/4	G 1/4	200 (53)	90 (3.54)	80 (3.15)	50 (1.97)	38 (1.50)	22 (0.87)	60 (2.36)	10 (0.39)	18.5 (0.73)	39 (1.54)		9 (0.35)	73 (2.87)	80 (3.15)
	05	G 1	G 1/4		90 (3.54)	90 (3.54)	50 (1.97)	40 (1.58)	22 (0.87)	70 (2.76)	10 (0.39)	18.5 (0.73)	39 (1.54)		9 (0.35)		
SIZE 20	05	G 1	G 1/4	320 (85)	110 (4.33)	100 (3.94)	60 (2.36)	45 (1.77)	25 (0.98)	75 (2.95)	12.5 (0.49)	21 (0.83)	51 (2.01)		11 (0.43)	65 (2.56)	72.5 (2.85)
	06	G 1 1/4	G 1/4		110 (4.33)	100 (3.94)	60 (2.36)	45 (1.77)	25 (0.98)	75 (2.95)	12.5 (0.49)	21 (0.83)	51 (2.01)		11 (0.43)		

Cartridge style



mm (inches)

Table “K”

			K				
CARTRIDGE CODE	04	52	20	X	56	Z	VBSN-08AA
	04	52	31	X	85	Z	VBSN-10A
	04	52	28	X	57	Z	VBSN-12A
	04	52	29	X	27	Z	VBSN-16A
	04	52	25	X	58	Z	VBSN-20A

Table “X”

X	PILOT RATIO	
03	4 : 1	3:1 only for K=31 version
10	8 : 1	
33	4 : 1	With sealed pilot (only for K=20 version)

OPTIONS	
	
Ordering code	
K=20,31,28	11.04.23.002
K=29,25	11.04.23.004

CARTRIDGE TECHNICAL DATA

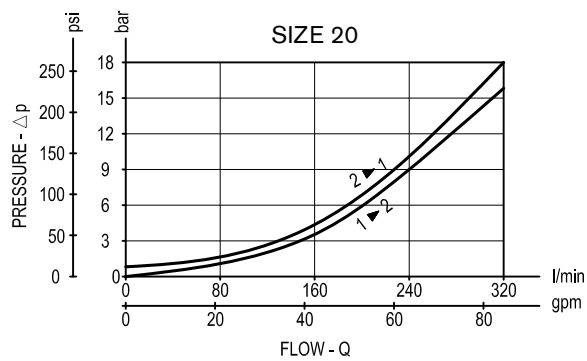
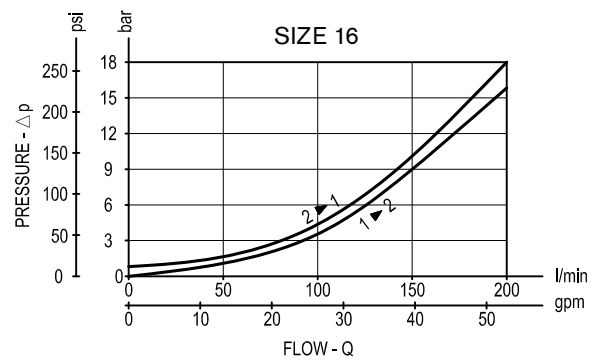
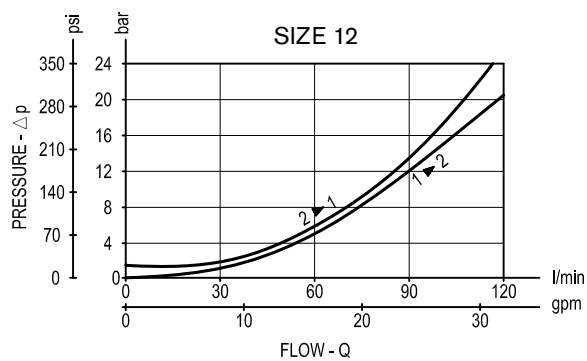
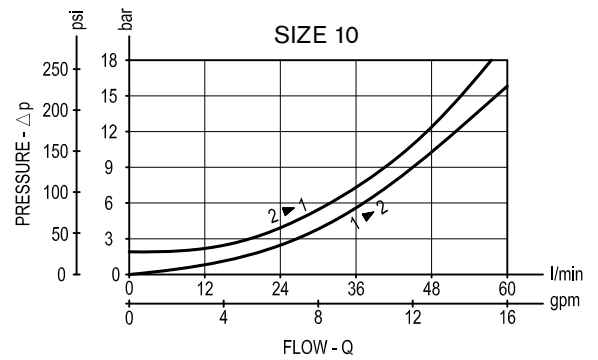
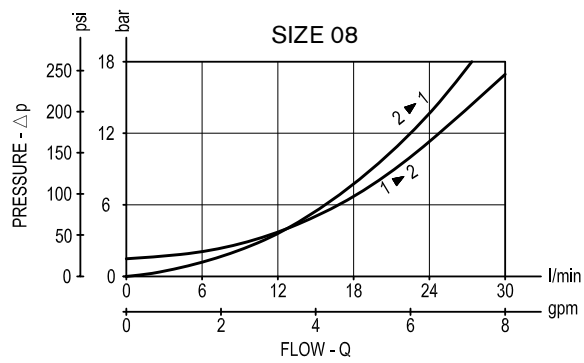
Common cavity: **CA-08A-3C / CA-10A-3C / CA-12A-3C / CA-16A-3C / CA-20A-3C**

For other details see data sheet RE 18320-01, RE 18320-02, RE 18320-03, RE 18320-04 and RE 18320-05

Table “Z”

[illegible]

Performance graphs



Ordering code

OY.02

K

X

Y

Z

W

Manifold with counterbalance,
standard poppet type

Cartridge style - Common cavity
(see table K on page 2)

Cartridge style - Pilot ratio
(see table X on page 2)

Manifold material

= 00

Aluminium manifold

= S0

Steel manifold

Settings - Springs
(see table Z on page 2)

Manifold style - Dimensions and port sizes
(see table Y on page 1)

Preferred types (readily available)

Type	Material number	Type	Material number
OY0220030220S0	R934001402		
OY0220030235S0	R934001403		
OY0231030320S0	R934001404		
OY0231030335S0	R934001405		
OY0228030420S0	R934001406		
OY0228030435S0	R934001407		
OY0229030520S0	R934001408		
OY0229030535S0	R934001409		
OY0225030635S0	R934001414		
OY022503063500	R934000949		
OY022803032000	R934003852		
OY0228030320S0	R934003359		

Further types available by request

Bosch Rexroth Oil Control S.p.A.
Via Leonardo da Vinci 5
P.O. Box no. 5
41015 Nonantola – Modena, Italy
Tel. +39 059 887 611
Fax +39 059 547 848
integrated-circuits@oilcontrol.com
www.boschrexroth.com

© This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth Oil Control S.p.a.. It may not be reproduced or given to third parties without its consent.

The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

Subject to change.