

Pressure control valves



Pressure control valves

REMOTE CONTROL RELIEF VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 DG-01-A DT-01-A		2 (5.5)	250(3600)	1/4"
DIRECT TYPE RELIEF VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 DG-02-A DT-02-A		164(23)	250(3600)	1/4"
REMOTE CONTROL RELIEF VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 JRT-02-A		1.2(2)	210(3000)	1/4"
PILOT OPERATED RELIEF VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 BG-03-A BG-06-A BG-10-A		100(24.2) 200(52.84) 400(105.68)	250(3600)	3/8" 3/4" 1-1/4"
 BT-03-A BT-06-A BT-10-A		100(24.2) 200(52.84) 400(105.68)	250(3600)	3/8" 3/4" 1-1/4"
LOW NOISE TYPE PILOT OPERATED RELIEF VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 SROG-03-A SROG-06-A SROG-10-A		100(24.2) 200(52.84) 400(105.68)	250(3600)	3/8" 3/4" 1-1/4"

SOLENOID CONTROLLED RELIEF VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 SROG-03-A SROG-06-A SROG-10-A SRT-03-A SRT-06-A SRT-10-A		100(24.2) 200(52.84) 400(105.68) 100(24.2) 200(52.84) 400(105.68)	250(3600)	3/8" 3/4" 1-1/4" 3/8" 3/4" 1-1/4"
LOW NOISE TYPE SOLENOID CONTROLLED RELIEF VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 SROG-03-A SROG-06-A SROG-10-A		100(24.2) 200(52.84) 400(105.68)	250(3600)	3/8" 3/4" 1-1/4"
2PV TYPE SOLENOID CONTROLLED RELIEF VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 SROG-03-2PV-A SROG-06-2PV-A SROG-10-2PV-A		100(24.2) 200(52.84) 400(105.68)	250(3600)	3/8" 3/4" 1-1/4"
3PN TYPE SOLENOID CONTROLLED RELIEF VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 SROG-03-3PN-A SROG-06-3PN-A SROG-10-3PN-A		100(24.2) 200(52.84) 400(105.68)	250(3600)	3/8" 3/4" 1-1/4"
3PN TYPE SOLENOID CONTROLLED RELIEF VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 SROG-03-3PN-A SROG-06-3PN-A SROG-10-3PN-A		100(24.2) 200(52.84) 400(105.68)	250(3600)	3/8" 3/4" 1-1/4"
UNLOADING RELIEF VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 RU03-06-A RU03-10-A		125(25.02) 250(50.05)	210(3000)	3/4" 1-1/4"

RESTRICTORS	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 SRG-03-A SRG-06-A SRG-10-A SRT-03-A SRT-06-A SRT-10-A		30(7.56) 60(22.48) 200(52.84) 20(5.01) 60(22.48) 200(52.84)	250(3600)	3/8" 3/4" 1-1/4" 3/8" 3/4" 1-1/4"
ONE WAY RESTRICTORS	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 SROG-03-A SROG-06-A SROG-10-A SRT-03-A SRT-06-A SRT-10-A		30(7.56) 60(22.48) 200(52.84) 20(5.01) 60(22.48) 200(52.84)	250(3600)	3/8" 3/4" 1-1/4" 3/8" 3/4" 1-1/4"
DECELERATION VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 CLG-03-A CLG-06-A CLG-10-A CLT-03-A CLT-06-A CLT-10-A		30(7.56) 70(18.82) 150(39.25) 20(5.01) 70(18.82) 150(39.25)	400(5800)	3/8" 3/4" 1-1/4" 3/8" 3/4" 1-1/4"

H TYPE PRESSURE CONTROL VALVES	Graphic Symbol	Q max. lpm (U.S.GPM)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 HG-03-A HG-06-A HG-10-A HT-03-A HT-06-A HT-10-A		60(13.21) 125(33.02) 250(66.05) 60(13.21) 125(33.02) 250(66.05)	210(3000)	3/8" 3/4" 1-1/4" 3/8" 3/4" 1-1/4"
HC TYPE PRESSURE CONTROL VALVES	Graphic Symbol	Q max. lpm (U.S.GPM)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 HCG-03-A HCG-06-A HCG-10-A HCT-03-A HCT-06-A HCT-10-A		60(13.21) 125(33.02) 250(66.05) 60(13.21) 125(33.02) 250(66.05)	210(3000)	3/8" 3/4" 1-1/4" 3/8" 3/4" 1-1/4"
PRESSURE REDUCING VALVES	Graphic Symbol	Q max. lpm (U.S.GPM)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 RG-03-A RG-06-A RG-10-A RT-03-A RT-06-A RT-10-A		60(13.21) 125(33.02) 250(66.05) 60(13.21) 125(33.02) 250(66.05)	210(3000)	3/8" 3/4" 1-1/4" 3/8" 3/4" 1-1/4"
PRESSURE REDUCING AND CHECK VALVES	Graphic Symbol	Q max. lpm (U.S.GPM)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 RCG-03-A RCG-06-A RCG-10-A RCT-03-A RCT-06-A RCT-10-A		60(13.21) 125(33.02) 250(66.05) 60(13.21) 125(33.02) 250(66.05)	210(3000)	3/8" 3/4" 1-1/4" 3/8" 3/4" 1-1/4"
RIGHT ANGLE CHECK VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 CRG-03-A CRG-06-A CRG-10-A		40(10.87) 125(33.02) 250(66.05)	250(3600)	3/8" 3/4" 1-1/4"
PILOT CONTROLLED CHECK VALVES DECOMPRESSION TYPE	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 CRG-03-A CRG-06-A CRG-10-A CRG-03-A CRG-06-A CRG-10-A		40(10.87) 125(33.02) 250(66.05) 40(10.87) 125(33.02) 250(66.05)	250(3600)	3/8" 3/4" 1-1/4" 3/8" 3/4" 1-1/4"

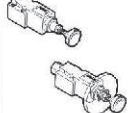
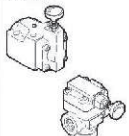
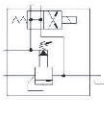
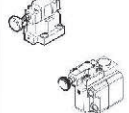
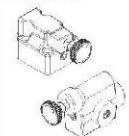
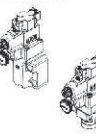
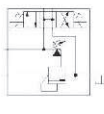
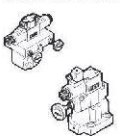
MANUALLY OPERATED DIRECTIONAL VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 DMG-03-A DMG-06-A DMG-10-A DMG-03-A DMG-06-A DMG-10-A		100(24.2) 200(52.84) 300(79.28) 600(152.19)	250(3600)	3/8" 1/2" 3/4" 1-1/4"
CAM OPERATED DIRECTIONAL VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 DMG-03-A DMG-06-A DMG-10-A		30(7.56) 100(24.2)	250(3600)	3/8" 1/2"

PRE-FILL VALVES	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 PG-03-A PG-06-A PG-10-A PG-03-A PG-06-A PG-10-A		400(105.68) 800(211.36) 1600(422.72) 3200(845.44) 1600(422.72) 800(211.36)	210(3000)	2" 3" 4" 6" 3 1/2" 4"

SOLENOID OPERATED FLOW CONTROL VALVE	Graphic Symbol	Q max. lpm (USgpm)	P max. bar(PSI)	Port Size (PT/NPT BSPP)
 FV-03-A FV-06-A FV-10-A FV-03-A FV-06-A FV-10-A		125(33.02) 250(66.05) 400(105.68) 125(33.02) 250(66.05) 400(105.68)	250(3600)	3/4" 3/4" 1-1/4" 3/4" 3/4" 1-1/4"

■ Ordering Code

BS - G - 03 - H - 2B3B - N - D2 - 20

Series No	Type of Mounting	Valve Size	Pressure Range	Vent Type	Type of Ele. Conduit	Coil Voltage	Design No
DG/DT 	G Subplate Mounting 	03: (3/8") ISO 6264-AS-06-2-A	B 7~70 bar 	2B2B 	N: DIN Type 	AC A1: AC110 A2: AC220	20 (G) DIN 912 bolts 
BG/BT 	T Threaded Connection 	06: (3/4") ISO 6264-AS-08-2-A	C 35~140 bar 	2B3B 	None:Box Type 	DC D1: DC12 D2: DC24	2090 (G) UNC bolts (North America) 
SBG/BRG 	HBG/HBT 	10: (1-1/4") ISO 6264-AT-10-2-A	H 70~250 bar 	2B2 	Y:Lead-Wire 	RAC R1: RAC110 R2: RAC220	20 (T) PT Connection 
DBG/DBT 	BSG/BST 			3C3 			2090 (T) NPT Connection (North America) 
	BSG-2P/SBSG 						

MODEL

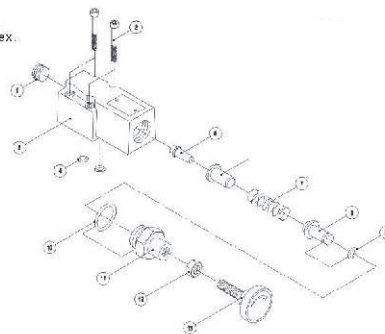
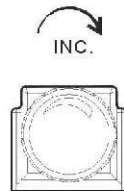
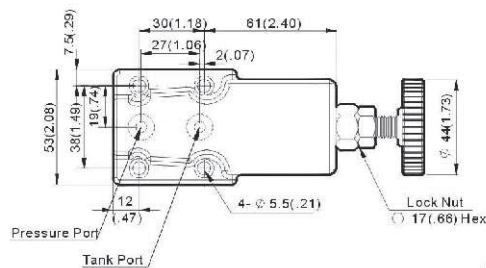
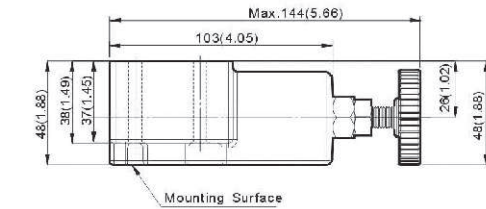
DESCRIPTION

DG-01	Remote Control Relief Valves(Sub-Plate Type)
DT-01	Remote Control Relief Valves(Threaded Type)
DG-02	Direct Type Relief Valves(Sub-Plate Type)
DT-02	Direct Type Relief Valves(Threaded Type)
BG-03-06-10	Pilot Operated Relief Valves(Sub-Plate Type)
BT-03-06-10	Pilot Operated Relief Valves(Threaded Type)
DBG-03	Pilot Operated Relief Valves(Sub-Plate Type)
DBT-03	Pilot Operated Relief Valves(Threaded Type)
HBG-03-06	Pilot Operated Relief Valves(Sub-Plate Type) High Pressure-315 bar
HBT-06	Pilot Operated Relief Valves(Threaded Type) High Pressure-315 bar
SBG-03-06-10	Low Noise Type Pilot Operated Relief Valves(Sub-Plate Type)
BRG-03-06-10	Back Valve(Sub-Plate Type)
BSG-03-06-10	Solenoid Controlled Relief Valves(Sub-Plate Type)
BST-03-06-10	Solenoid Controlled Relief Valves(Threaded Type)
BSG-03-06-10-2P	Solenoid Controlled Relief Valves-Dual Pressure (Sub-Plate Type)
SBSG-03-06-10	Low Noise Solenoid Controlled Relief Valves(Sub-Plate Type)

DIMENSIONS

MILLIMETERS(INCHES)

DG-01 Remote Control Relief Valves(Sub-Plate Type)

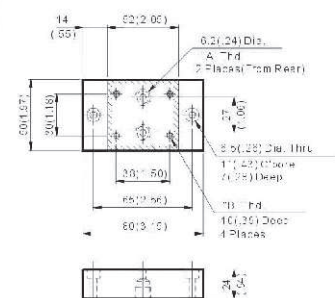


Valve Specifications & Attachment

Flow Rating	2 lpm (0.52 gpm)
Max. Pressure	250 bar (3600 psi)
Weight kg(lbs.)	1.4 (3.1)
CODE:20	M5 X45LgX4pcs
CODE:2090	10-24UNCX1-3/4"LgX4pcs
Mounting Surface O-Ring	P9 x 2 pc

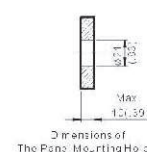
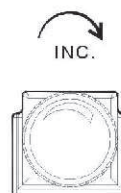
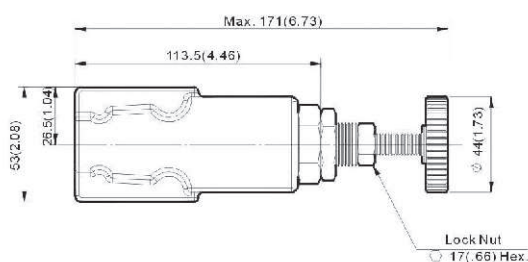
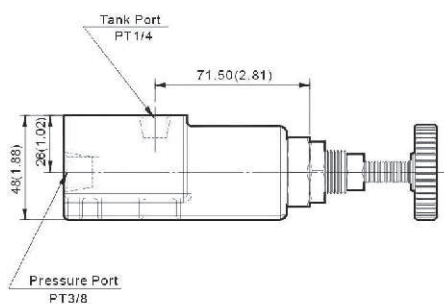


DGM-01



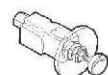
Model	A Ind.	B Ind.
DGM-01-20	P11/4	M5
DGM-01-2090	KP11/4	No.13-24 JMC

DT-01 Remote Control Relief Valves(Threaded Type)



18 Valve Specifications & Attachment

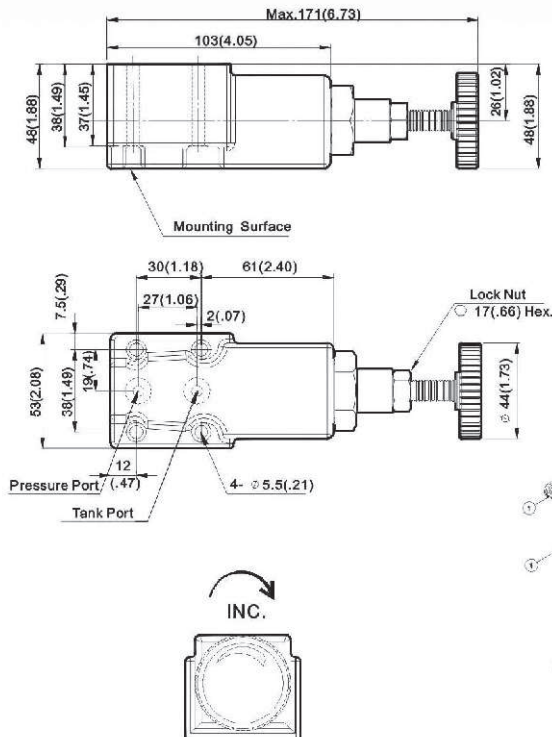
Flow Rating	2 lpm (0.52 gpm)
Max. Pressure	250 bar (3600 psi)
Weight kg(lbs.)	1.6 (3.5)
CODE:20	1/4 PT
CODE:2090	1/4 NPT



DIMENSIONS

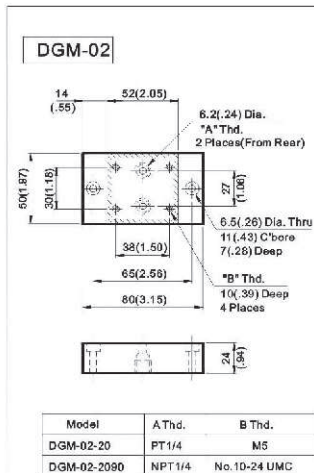
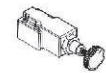
MILLIMETERS(INCHES)

DG-02 **Direct Type Relief Valves(Sub-Plate Type)**

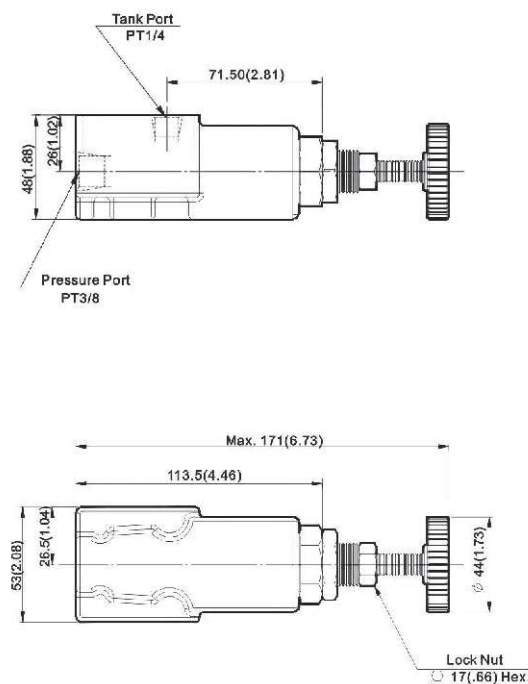


■ Valve Specifications & Attachment

Flow rating	16 lpm (4.22 gpm)
Max. Pressure	250 bar (3600 psi)
Weight kg(lbs.)	1.5 (3.3)
CODE:20	M5 X45LgX4pcs
CODE:2090	10-24UNCX1-3/4"LgX4pcs
Mounting Surface O-Ring P9 x 2 pc	

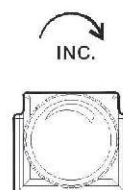
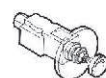


DT-02 Direct Type Relief Valves(Threaded Type)



■ Valve Specifications & Attachment

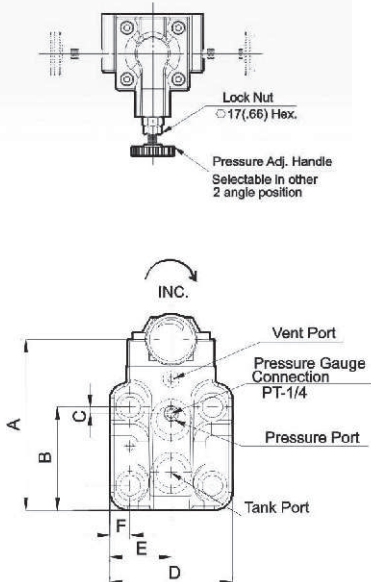
Flow rating	18 lpm (4.22 gpm)
Max. Pressure	250 bar (3600 psi)
Weight kg(lbs.)	1.5 (3.3)
CODE:20	1/4 PT
CODE:2090	1/4 NPT



DIMENSIONS

MILLIMETERS(INCHES)

BG-03-06-10 Pilot Operated Relief Valves(Sub-Plate Type)



Valve Specifications & Attachment

Model	BG-03	BG-06	BG-10
Flow rating	100 lpm (26.4 gpm)	200 lpm (52.8 gpm)	400 lpm (106 gpm)
Max. Pressure	250 bar (3600 psi)	250 bar (3600 psi)	250 bar (3600 psi)
Weight kg(lbs.)	4.7 (10.4)	5.6 (12.3)	5.7 (19.2)
CODE:20	M12 X1.5/16-20pc	M16 X1.5/16-20pc	M20 X1.5/16-20pc
CODE:2090	1/2-13UNCX3-3/4LgX2pc 1/2-13UNCX3-3/4LgX2pc	5/8-11UNCX3-1/4LgX2pc 5/8-11UNCX3-1/4LgX2pc	3/4-10UNCX3-3/4LgX2pc 3/4-10UNCX3-1/2LgX2pc
Surface O-Ring	P0X1pc, P20X2pc	P10AX1pc, P29X2pc	P10AX1pc, P36X2pc
ISO Mounting	6284-AR-08-2-A	6294-AS-08-2-A	6284-AT-10-2-A

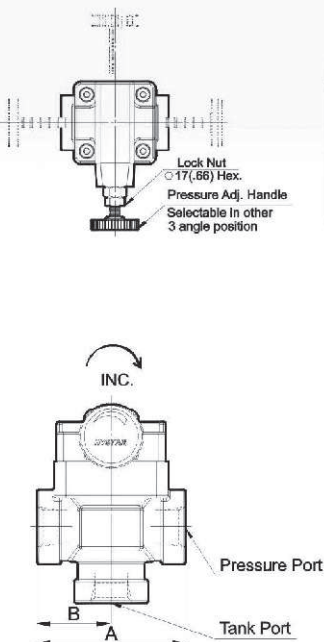


SYMBOL



Model	A	B	C	D	E	F	G	H	I	J	K	L
BG-03	117(4.60)	75.5(2.97)	21.5(.84)	83(3.26)	41.5(1.63)	14.5(.57)	78(3.07)	77.5(3.05)	58.5(2.30)	136(5.35)	41(1.61)	146(5.74)
BG-06	145(5.70)	87.5(3.44)	5.5(.21)	104(4.09)	52(2.04)	17(.66)	78(3.07)	60(2.36)	40(1.57)	164(6.45)	41(1.61)	146(5.74)
BG-10	175(6.88)	106(4.17)	8(.31)	125(4.92)	62.5(2.46)	21.2(.83)	90(3.54)	69.5(2.73)	49.5(1.94)	195(7.67)	46(1.81)	155(6.10)

BT-03-06-10 Pilot Operated Relief Valves(Threaded Type)



Valve Specifications & Attachment

Model	BT-03	BT-06	BT-10
Flow rating	100 lpm (26.4 gpm)	200 lpm (52.8 gpm)	400 lpm (106 gpm)
Max. Pressure	250 bar (3600 psi)	250 bar (3600 psi)	250 bar (3600 psi)
Weight kg(lbs.)	5 (11.0)	5 (11.0)	8.5 (18.7)
CODE:20	3/8 PT	3/4 PT	1 1/4 PT
CODE:2090	3/8 NPT	3/4 NPT	1 1/4 NPT



SYMBOL



Model	A	B	C	D	E	F	G	H
BT-03	77(3.03)	38.5(1.51)	132(5.19)	31.5(1.24)	123(4.84)	42(1.65)	65(2.55)	42(1.65)
BT-06	102(4.01)	51(2.00)	140(5.51)	39(1.53)	132(5.19)	52(2.04)	62(2.44)	52(2.04)
BT-10	140(5.51)	70(2.75)	152(5.98)	48(1.88)	191(7.51)	84(3.30)	86(3.38)	82(3.22)

DIMENSIONS

MILLIMETERS(INCHES)

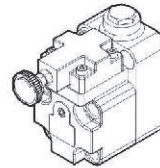
Unloading Relief Valves(Sub-Plate Type) BUCG-06 Series

Ordering Code

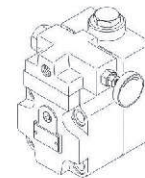
BUC - **G** - **06** - **B** - **20**

Series No	Type of Mounting	Valve Size	Pressure Range	Design No
BUC: Unloading Relief Valve	G Subplate Mounting	06: (3/4")	B: 25-70 bar (360-1000 PSI)	20 (G) DIN 912 bolts
		10: (1 1/4")	C: 35-140 bar (500-2000 PSI)	2090 (G) UNC bolts (North America)
			H: 70-210 bar (1000-3000 PSI)	

BUCG-06



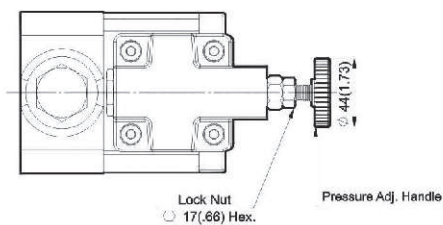
BUCG-10



SYMBOL

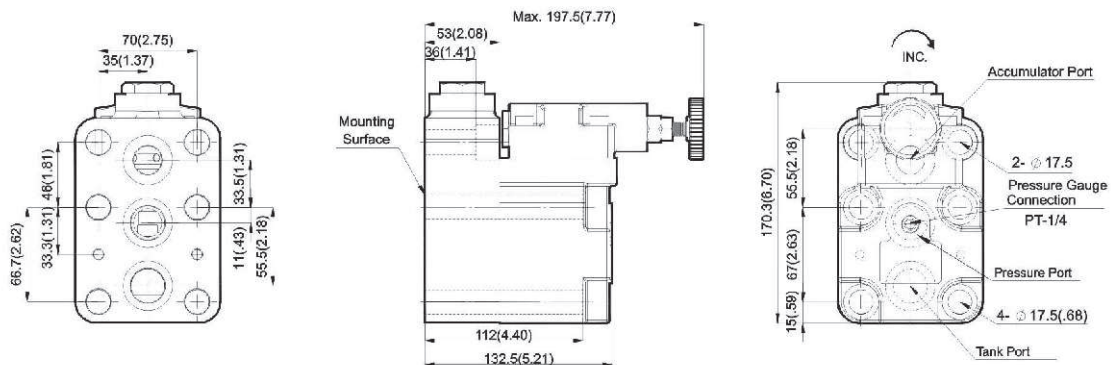


BUCG-06 Unloading Relief Valves(Sub-Plate Type)



Valve Specifications & Attachment

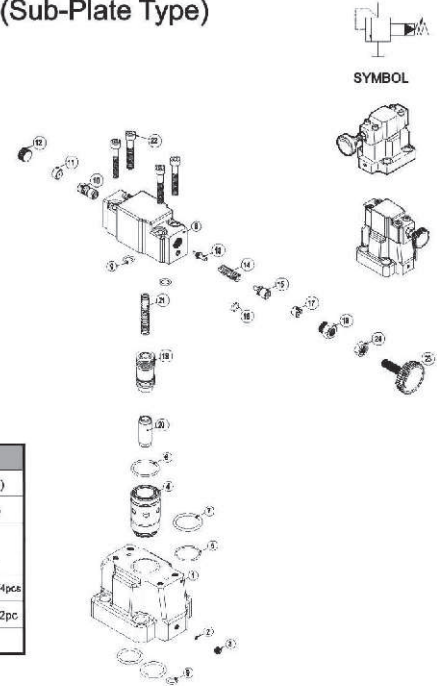
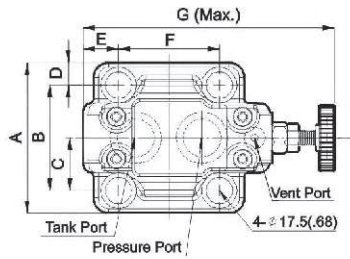
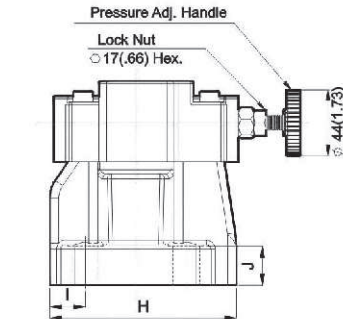
Model	BUCG-06
Flow Rating	125 lpm (33 gpm)
Max. Pressure	250 bar (3600 psi)
Weight kg(lbs.)	12 (26.4)
CODE:20	M16 X66LgX2pcs M16 X110LgX2pcs M16 X130LgX2pcs
CODE:2090	5/8-11UNCX2-14LgX2pcs 5/8-11UNCX4-1/2LgX2pcs 5/8-11UNCX5LgX2pcs
Surface O-Ring	P9X1pc, P29X2pc



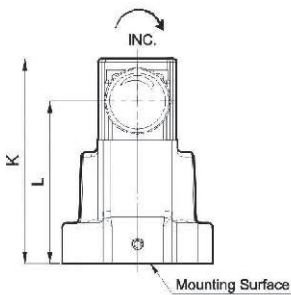
DIMENSIONS

MILLIMETERS(INCHES)

SBG-03-06-10 Low Noise Type Pilot Operated Relief Valves(Sub-Plate Type)



SYMBOL

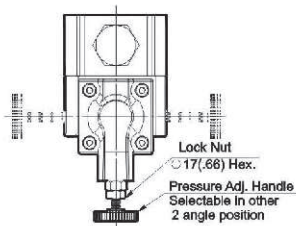


Valve Specifications & Attachment

Model	SBG-03	SBG-06	SBG-10
Flow Rating	100 lpm (26.4 gpm)	200 lpm (52.8 gpm)	400 lpm (106 gpm)
Max. Pressure	250 bar (3600 psi)	250 bar (3600 psi)	250 bar (3600 psi)
Weight kg(lbs.)	5 (11.0)	6.2 (13.6)	9.5 (20.9)
CODE:20	M12X40LgX4pcs	M16X50LgX4pcs	M20X60LgX4pcs
CODE:2090	1/2-13UNCX1-1/2LgX4pcs	5/8-11UNCX2LgX4pcs	3/4-10UNCX2-1/4LgX4pcs
Surface O-Ring	P8X1pc, P20X2pc	P10AX1pc, P28X2pc	P10AX1pc, P36X2pc
ISO Mounting	6264-AR-06-2-A	6264-AS-06-2-A	6264-AT-10-2-A

Model	A	B	C	D	E	F	G	H	I	J	K	L
SBG-03	78(3.07)	54(2.12)	27(1.06)	12(.47)	34.5(1.35)	54(2.12)	165(6.49)	107(4.21)	26.5(1.04)	23(.90)	134(5.27)	108(4.25)
SBG-06	100(3.93)	70(2.75)	35(1.37)	15(.59)	23.5(.92)	67(2.63)	167(6.57)	124(4.88)	23.5(.92)	26(1.02)	136(5.35)	108(4.25)
SBG-10	127(5.00)	82.6(3.25)	41.3(1.62)	22.2(.87)	20.5(.80)	89(3.50)	185(7.28)	155(6.10)	20.5(.80)	36(1.41)	145(5.70)	120(4.72)

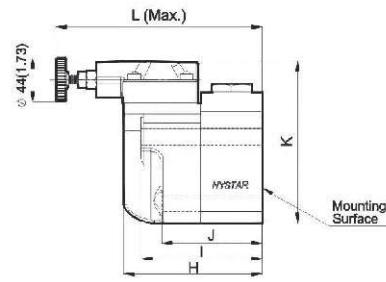
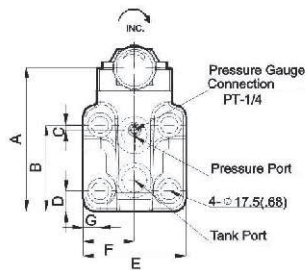
BRG-03-06-10 Back Valve(Sub-Plate Type)



Valve Specifications & Attachment

Model	BRG-03	BRG-06	BRG-10
Flow Rating	40 lpm (10.5 gpm)	100 lpm (26.4 gpm)	200 lpm (52.8 gpm)
Max. Pressure	250 bar (3600 psi)	250 bar (3600 psi)	250 bar (3600 psi)
Weight kg(lbs.)	7.5 (16.5)	11 (24.2)	19 (41.8)
CODE:20	M12 X110LgX3pcs M12 X130LgX2pcs	M16 X120LgX2pcs M16 X140LgX2pcs	M20 X140LgX2pcs M20 X160LgX2pcs
CODE:2090	1/2-13UNCX4-1/2LgX2pcs 1/2-13UNCX5LgX2pcs	5/8-11UNCX4-3/4LgX2pcs 5/8-11UNCX5-3/4LgX2pcs	3/4-10UNCX5-3/4LgX2pcs 3/4-10UNCX6-1/2LgX2pcs
Surface O-Ring	P8X1pc, P20X2pc	P10AX1pc, P29X2pc	P10AX1pc, P36X2pc
ISO Mounting	6264-AR-06-2-A	6264-AS-08-2-A	6264-AT-10-2-A

SYMBOL



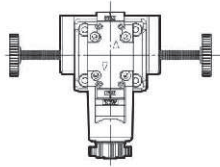
Model	A	B	C	D	E	F	G	H	I	J	K	L
BRG-03	122(4.80)	80.5(3.16)	21.5(.84)	26.6(1.04)	84(3.30)	42(1.65)	15.1(.59)	118(4.64)	118(4.64)	99(3.89)	141(5.55)	187(7.36)
BRG-06	145(5.70)	87.5(3.44)	5.5(.21)	20.5(.80)	104(4.09)	52(2.04)	17(.66)	140(5.51)	122(4.80)	102(4.01)	164(6.45)	209(8.22)
BRG-10	181(7.12)	112.5(4.42)	8(.31)	23.5(.92)	125(4.92)	62.5(2.46)	21.2(.83)	156(6.14)	143(5.62)	123(4.84)	202(7.95)	228(8.97)

DIMENSIONS

MILLIMETERS(INCHES)

BSG-03-06-10

Solenoid Controlled Relief Valves(Sub-Plate Type)

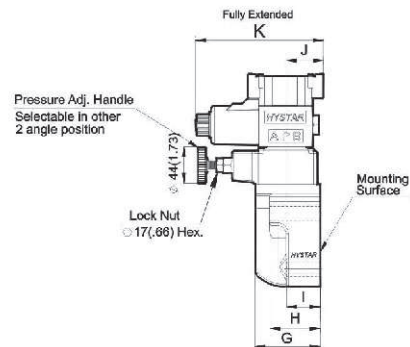
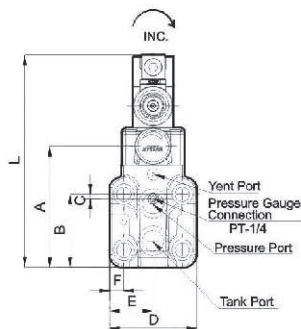


Valve Specifications & Attachment

Model	BSG-03	BSG-06	BSG-10
Flow Rating	100 lpm (26.4 gpm)	200 lpm (52.8 gpm)	400 lpm (106 gpm)
Max. Pressure	250 bar (3600 psi)	250 bar (3600 psi)	250 bar (3600 psi)
Weight kg(lb.)	7.1 (15.6)	8.0 (17.6)	11.3 (24.9)
CODE 20	M12 X70Lg/2pc M12 X80Lg/2pc	M18 X80Lg/2pc M18 X90Lg/2pc	M20 X70Lg/2pc M20 X80Lg/2pc
CODE 2090	1/2-13UNCX3-3/4Lg/2pc 1/2-13UNCX3-3/4Lg/2pc	5/8-11UNCX2-1/4Lg/2pc 1/2-13UNCX3-1/4Lg/2pc	3/4-10UNCX3-3/4Lg/2pc 3/4-10UNCX3-1/2Lg/2pc
Surface O-Ring	P9X1pc, P20X2pc	P10AX1pc, P25X2pc	P10AX1pc, P36X2pc
ISO Mounting	6264-AR-06-2-A	6264-AS-06-2-A	6264-AT-10-2-A



SYMBOL

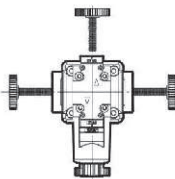


■ Dimensions for models with Din connector, reference page 14 for details.

Model	A	B	C	D	E	F	G	H	I	J	K	L
BSG-03	117(4.60)	75.5(2.97)	21.5(.84)	83(3.26)	41.5(1.63)	14.5(.57)	78(3.07)	77.5(3.05)	58.5(2.30)	45(1.77)	153(6.02)	226(8.89)
BSG-06	145(5.70)	87.5(3.44)	5.5(.21)	104(4.09)	52(2.04)	17(.66)	78(3.07)	60(2.36)	40(1.57)	45(1.77)	153(6.02)	255(10.0)
BSG-10	175(6.88)	106(4.17)	8(.31)	125(4.92)	62.5(2.46)	21.2(.83)	90(3.54)	69.5(2.73)	49.5(1.94)	50(1.96)	153(6.02)	285(11.2)

BST-03-06-10

Solenoid Controlled Relief Valves(Threaded Type)

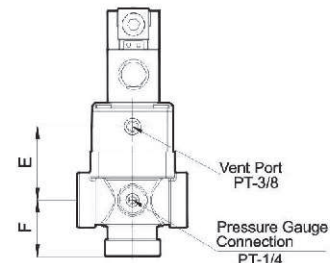
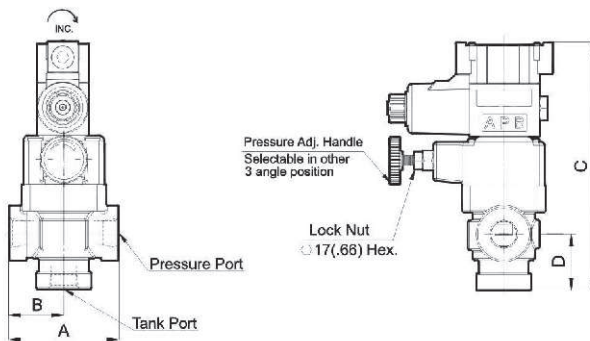


Valve Specifications & Attachment

Model	BST-03	BST-06	BST-10
Flow Rating	100 lpm (26.4 gpm)	200 lpm (52.8 gpm)	400 lpm (106 gpm)
Max. Pressure	250 bar (3600 psi)	250 bar (3600 psi)	250 bar (3600 psi)
Weight kg(lb.)	7.4 (16.3)	7.4 (16.3)	11.1 (24.5)
CODE 20	3/8 PT	3/4 PT	1 1/4 PT
CODE 2090	3/8 NPT	3/4 NPT	1 1/4 NPT



SYMBOL



■ Dimensions for models with Din connector, reference page 14 for details.

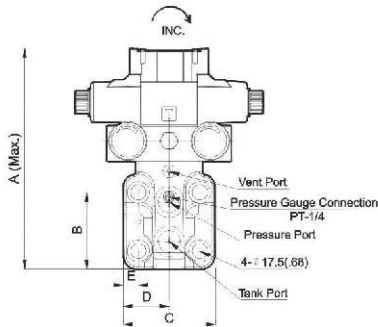
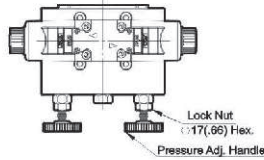
Model	A	B	C	D	E	F
BST-03	102(4.01)	51(2.00)	230(9.05)	52(2.04)	68(2.67)	52(2.04)
BST-06	120(4.72)	51(2.00)	230(9.05)	52(2.04)	68(2.67)	52(2.04)
BST-10	140(5.51)	70(2.75)	284(11.1)	84(3.30)	86(3.38)	82(3.22)

DIMENSIONS

MILLIMETERS(INCHES)

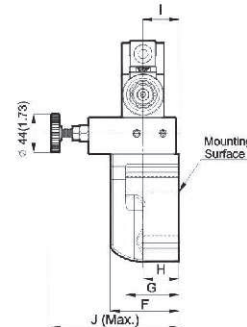
BSG-03-06-10-2P

Solenoid Controlled Relief Valves-Dual Pressure (Sub-Plate Type)

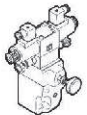


Valve Specifications & Attachment

Model	BSG-03	BSG-06	BSG-10
Flow Rating	100 lpm (26.4 gpm)	200 lpm (52.8 gpm)	400 lpm (106 gpm)
Max. Pressure	250 bar (3600 psi)	250 bar (3600 psi)	250 bar (3600 psi)
Weight kg.(lbs.)	7.1 (15.6)	8.0 (17.6)	11.3 (24.9)
CODE:20	M12 X1.0LgX2pc M12 X0.8LgX2pc	M18 X0.8LgX2pc M18 X0.8LgX2pc	M30X1.5LgX2pc M30X1.5LgX2pc
CODE:2090	1/2-13UNCX3-3/4LgX2pc 1/2-13UNCX3-3/4LgX2pc	5/8-11UNCX3-1/4LgX2pc 1/2-13UNCX3-1/4LgX2pc	3/4-10UNCX3-1/2LgX2pc 3/4-10UNCX3-1/2LgX2pc
Surface O-Ring	P9X1pc, P20X2pc	P10AX1pc, P20X2pc	P10AX1pc, P36X2pc
ISO Mounting	6264-AR-06-2-A	6264-AS-08-2-A	6264-AT-10-2-A



SYMBOL

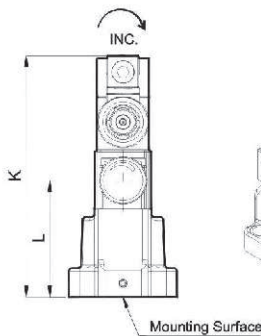
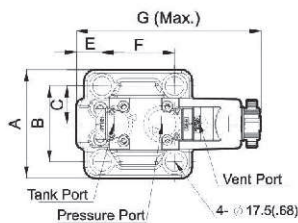
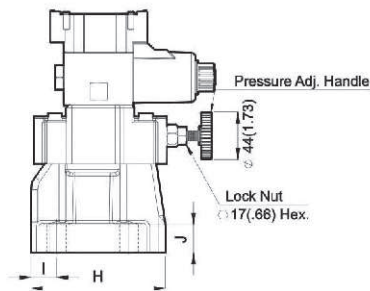


■ Dimensions for models with Din connector, reference page 14 for details.

Model	A	B	C	D	E	F	G	H	I	J
BSG-03-2P	224(8.81)	75.5(2.97)	83(3.26)	41.5(1.63)	14.5(.57)	70(2.75)	77.5(3.05)	40(1.57)	41(1.61)	146(5.74)
BSG-06-2P	251.5(9.90)	87.5(3.44)	104(4.09)	52(2.04)	17(.66)	78(3.07)	60(2.36)	40(1.57)	41(1.61)	146(5.74)
BSG-10-2P	289.5(11.3)	106(4.17)	125(4.92)	62.5(2.46)	21.2(.83)	83(3.26)	69.5(2.73)	49.5(1.94)	46(1.81)	280(11.0)

SBSG-03-06-10

Low Noise Type Solenoid Controlled Relief Valves(Sub-Plate Type)



Valve Specifications & Attachment

Model	SBSG-03	SBSG-06	SBSG-10
Flow Rating	100 lpm (26.4 gpm)	200 lpm (52.8 gpm)	400 lpm (106 gpm)
Max. Pressure	250 bar (3600 psi)	250 bar (3600 psi)	250 bar (3600 psi)
Weight kg.(lbs.)	6.3 (13.9)	7.2 (15.9)	12.7 (28.0)
CODE:20	M12 X1.0LgX4pc M12 X0.8LgX4pc	M18 X0.8LgX4pc M18 X0.8LgX4pc	M20 X0.8LgX4pc M20 X0.8LgX4pc
CODE:2090	1/2-13UNCX1/4LgX4pc 1/2-13UNCX1/4LgX4pc	5/8-11UNCX3/4LgX4pc 1/2-13UNCX3/4LgX4pc	3/4-10UNCX3/4LgX4pc 3/4-10UNCX3/4LgX4pc
Surface O-Ring	P9X1pc, P20X2pc	P10AX1pc, P20X2pc	P10AX1pc, P36X2pc
ISO Mounting	6264-AR-06-2-A	6264-AS-08-2-A	6264-AT-10-2-A



SYMBOL



■ Dimensions for models with Din connector, reference page 14 for details.

Model	A	B	C	D	E	F	G	H	I	J	K
S-BSG-03	78(3.07)	54(2.12)	27(1.06)	12(.47)	34.5(1.35)	54(2.12)	169(6.65)	107(4.21)	26.5(1.04)	23(.90)	222(8.74)
S-BSG-06	100(3.93)	70(2.75)	35(1.37)	15(.59)	23.5(.92)	67(2.63)	171(6.73)	124(4.88)	23.5(.92)	26(1.02)	224(8.81)
S-BSG-10	127(5.00)	82.6(3.25)	41(1.61)	22.2(.87)	20.5(.80)	89(3.50)	190(7.48)	155(6.10)	20.5(.80)	36(1.41)	273(10.7)

Ordering Code

HC T 03 C 3 20



SYMBOL

Series No	Type of Mounting	Valve Size	Pressure Range	Valve Type	Design No
H: H Type Pressure Control Valves HG/HT	G Subplate Mounting 	03: (3/8") ISO 5781-AG-06-2-A	L: 2.5~4.5 bar (35~65 PSI) M: 4.5~9 bar (65~125 PSI) N: 9~18 bar (125~250 PSI)	Type 1: Counterbalance Valve Internal Pilot-Internal Drain	20 (G) DIN 912 bolts 
HC: HC Type Pressure Control Valves HCG/HCT	T Threaded Connection 	06: (3/4") ISO 5781-AG-08-2-A	A: 18~35 bar (250~500 PSI) B: 35~70 bar (500~1000 PSI) C: 70~140 bar (1000~2000 PSI) H: 140~210 bar (2000~3000 PSI)	Type 2: Sequence and Check Valve Internal Pilot-External Drain Type 3: Sequence and Check Valve External Pilot-External Drain	2090 (G) UNC bolts (North America)  20 (T) PT Connection 
		10: (1-1/4") ISO 5781-AJ-10-2-A		Type 4: Counterbalance Valve External Pilot-Internal Drain	2090 (T) NPT Connection (North America) 

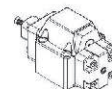
HG



HT



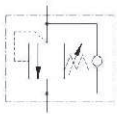
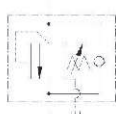
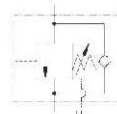
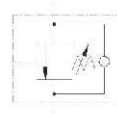
HCG



HCT



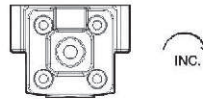
MODEL	DESCRIPTION	PAGE
HG-03-06-10	H Type Pressure Control Valves(Sub-Plate Type)	257
HT-03-06-10	H Type Pressure Control Valves(Threaded Type)	257
HCG-03-06-10	HC Type Pressure Control Valves(Sub-Plate Type)	258
HCT-03-06-10	HC Type Pressure Control Valves(Threaded Type)	258

Valve Size	Type 1	Type 2	Type 3	Type 4
Description	Counterbalance Valve Internal Pilot-Internal Drain	Sequence and Check Valve Internal Pilot-External Drain	Sequence and Check Valve External Pilot-External Drain	Counterbalance Valve External Pilot-Internal Drain
&				
Symbol				

DIMENSIONS

MILLIMETERS(INCHES)

HG-03-06-10 H Type Pressure Control Valves(Sub-Plate Type)



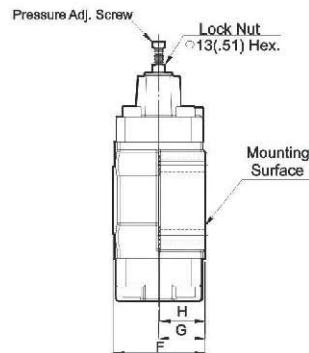
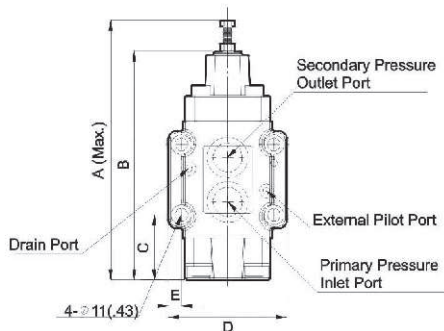
INC.

Valve Specifications & Attachment

Model	HG-03	HG-06	HG-10
Flow Rating	50 lpm (13.2 gpm)	125 lpm (33 gpm)	250 lpm (66 gpm)
Max. Pressure	210 bar (3000 psi)	210 bar (3000 psi)	210 bar (3000 psi)
Weight kg(lbs.)	4.0 (8.8)	8.1 (13.4)	11.0 (24.2)
CODE:20	M10 X50LgX4pcs	M10 X50LgX4pcs	M10 X50LgX5pcs
CODE:2060	3/8-16UNCX2LgX4pcs	3/8-16UNCX2LgX4pcs	3/8-16UNCX2LgX5pcs
Surface O-Ring	P9X2pc, P18X2pc	P9X2pc, P29X2pc	P9X2pc, P38X2pc
ISO Mounting	5781-AG-06-2-A	5781-AG-06-2-A	5781-AJ-10-2-A

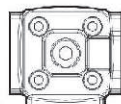


SYMBOL



Model	A	B	C	D	E	F	G	H	I	J
HG-03	192(7.55)	168(6.61)	50.6(1.99)	89(3.50)	11.2(.44)	69(2.71)	42(1.65)	35(1.37)	13(.51)	13(.51)
HG-06	223(8.77)	196(7.71)	60(2.36)	102(4.01)	11.3(.44)	79(3.11)	40(1.57)	39(1.53)	13(.51)	13(.51)
HG-10	266(10.4)	239(9.40)	65(2.55)	119(4.68)	11(.43)	96(3.77)	48.5(1.90)	40(1.57)	5(.19)	17(.66)

HT-03-06-10 H Type Pressure Control Valves(Threaded Type)

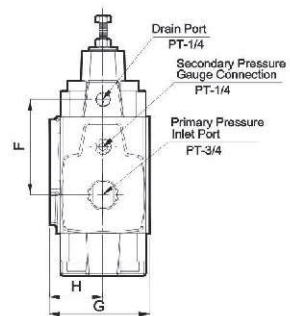
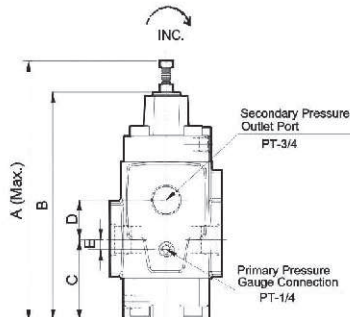
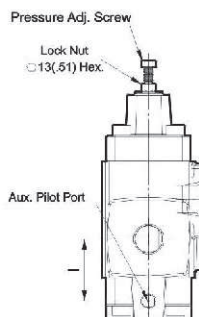


Valve Specifications & Attachment

Model	HT-03	HT-06	HT-10
Flow Rating	50 lpm (13.2 gpm)	125 lpm (33 gpm)	250 lpm (66 gpm)
Max. Pressure	210 bar (3000 psi)	210 bar (3000 psi)	210 bar (3000 psi)
Weight kg(lbs.)	3.7 (8.2)	6.2 (13.7)	12.0 (26.4)
CODE:20	3/8 PT	3/4 PT	1 1/4 PT
CODE:2091	3/8 NPT	3/4 NPT	1 1/4 NPT



SYMBOL

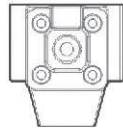


Model	A	B	C	D	E	F	G	H	I	J	K	L
HT-03	192(7.55)	167.5(6.59)	58(2.28)	30(1.18)	0	69(2.71)	74(2.91)	41.5(1.63)	45(1.77)	13(.51)	13(.51)	1/8
HT-06	223(8.77)	196(7.71)	69(2.71)	34(1.33)	8(.31)	82(3.22)	86(3.38)	46(1.81)	53(2.08)	13(.51)	13(.51)	1/4
HT-10	266(10.4)	239(9.40)	87(3.42)	41(1.61)	11(.43)	58(2.28)	110(4.33)	65(2.55)	68(2.67)	5(.19)	17(.66)	1/4

DIMENSIONS

MILLIMETERS(INCHES)

HCG-03-06-10 HC Type Pressure Control Valves(Sub-Plate Type)

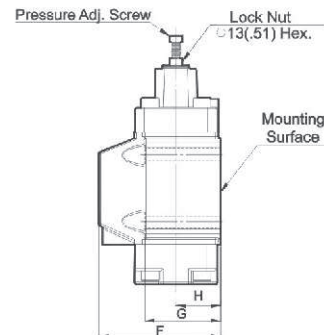
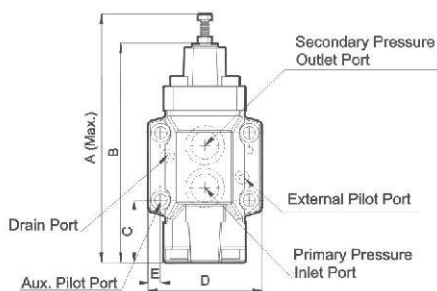


Valve Specifications & Attachment

Model	HCG-03	HCG-06	HCG-10
Flow Rating	50 lpm (13.2 gpm)	125 lpm (33 gpm)	250 lpm (66 gpm)
Max. Pressure	210 bar (3000 psi)	210 bar (3000 psi)	210 bar (3000 psi)
Weight kg(lbs.)	4.8 (10.6)	7.4 (16.3)	13.8 (30.4)
CODE:20	M10 X75gK4pc	M10 X80gK4pc	M10 X90gK4pc
CODE:2090	3/8-16UNC-3/4LgK4pc	3/8-16UNC-1/4LgK4pc	3/8-16UNC-1/2LgK4pc
Surface O-Ring	P9X2pc, P16X2pc	P9X2pc, P29X2pc	P9X2pc, P38X2pc
ISO Mounting	5781-AG-08-2-A	5781-AG-08-2-A	5781-AJ-10-2-A



SYMBOL



Model	A	B	C	D	E	F	G	H	I	J
HCG-03	192(7.55)	167.5(6.59)	50.6(1.99)	89(3.50)	11.2(.44)	90(3.54)	58(2.28)	35(1.37)	13(.51)	13(.51)
HCG-06	222(8.74)	196(7.71)	60(2.36)	102(4.01)	11.3(.44)	109(4.29)	68(2.67)	40(1.57)	13(.51)	13(.51)
HCG-10	266(10.4)	239(9.40)	65(2.55)	119(4.68)	11.1(.43)	131(5.15)	80(3.14)	48(1.88)	5(.19)	17(.68)

HCT-03-06-10 HC Type Pressure Control Valves(Threaded Type)

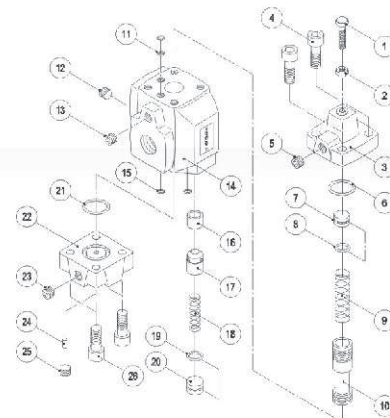
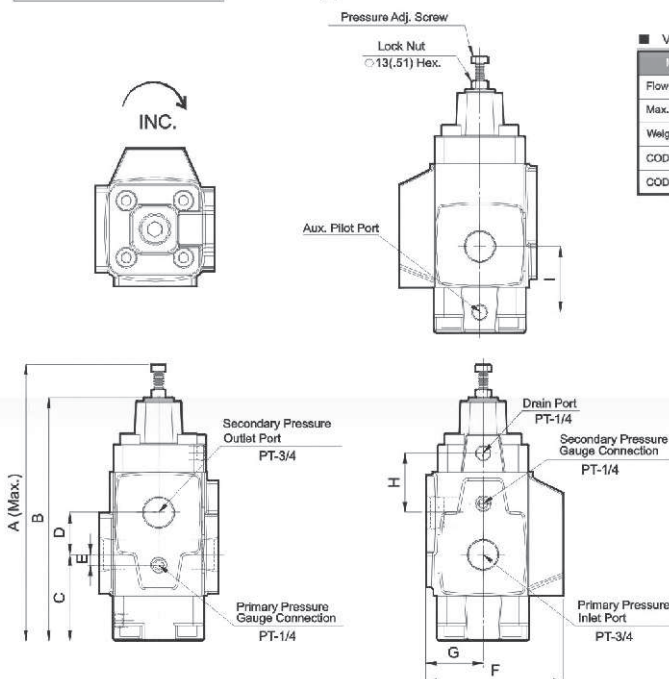


Valve Specifications & Attachment

Model	HCT-03	HCT-06	HCT-10
Flow Rating	50 lpm (13.2 gpm)	125 lpm (33 gpm)	250 lpm (66 gpm)
Max. Pressure	210 bar (3000 psi)	210 bar (3000 psi)	210 bar (3000 psi)
Weight kg(lbs.)	4.1 (9.0)	7.1 (15.6)	13.8 (30.4)
CODE:20	3/8 PT	3/4 PT	1 1/4 PT
CODE:2090	3/8 NPT	3/4 NPT	1 1/4 NPT



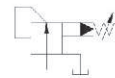
SYMBOL



Model	A	B	C	D	E	F	G	H	I	J	K	L
HCT-03	192(7.55)	166(6.81)	58(2.28)	30(1.18)	0	95(3.74)	41.5(1.63)	39(1.53)	45(1.77)	13(.51)	13(.51)	1/8
HCT-06	223(8.77)	196(7.71)	69.5(2.73)	34(1.33)	8.3(.32)	111(4.37)	46(1.81)	48(1.88)	53.5(2.08)	13(.51)	13(.51)	1/4
HCT-10	266(10.4)	246(9.68)	87(3.42)	40(1.57)	15(.59)	154(6.06)	64(2.51)	58(2.28)	68(2.67)	5(.19)	17(.66)	1/4

■ Ordering Code

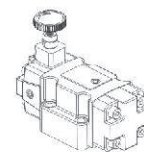
RC - T - 03 - B - 20



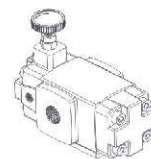
SYMBOL

Series No	Type of Mounting	Valve Size	Pressure Range	Design No
R: Pressure Reducing Valves RG/RT	G Subplate Mounting 	03: (3/8") ISO 5781-AG-06-2-A	B: 7~70 bar (100~1000 PSI) 	20 (G) DIN 912 bolts 
RC: Pressure Reducing and Check Valves RCG/RCT	T Threaded Connection 	06: (3/4") ISO 5781-AH-08-2-A	C: 35~140 bar (500~2000 PSI) 	2090 (G) UNC bolts (North America) 
			H: 70~225 bar (1000~3200 PSI) 	20 (T) PT Connection 
				2090 (T) NPT Connection (North America) 

RG

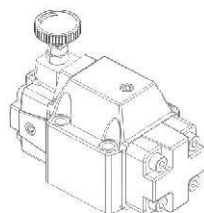


RT

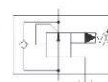
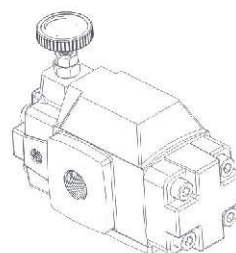


MODEL	DESCRIPTION	PAGE
RG-03-06	Pressure Reducing Valves(Sub-Plate Type)	260
RT-03-06	Pressure Reducing Valves(Threaded Type)	260
RCG-03-06	Pressure Reducing with Check Valves(Sub-Plate Type)	261
RCT-03-06	Pressure Reducing with Check Valves(Threaded Type)	261

RCG



RCT



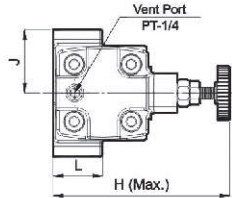
SYMBOL

RCT-06

DIMENSIONS

MILLIMETERS(INCHES)

RG-03-06 Pressure Reducing Valves(Sub-Plate Type)

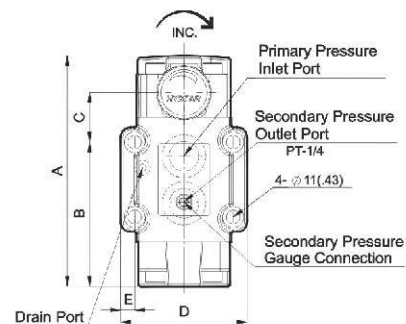
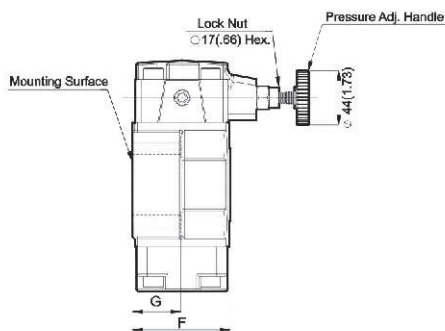


Valve Specifications & Attachment

Model	RG-03	RG-06
Flow Rating	50 lpm (13.2 gpm)	125 lpm (33 gpm)
Max. Pressure	250 bar (3600 psi)	250 bar (3600 psi)
Weight kg(lbs.)	4.5 (9.9)	6.8 (15.0)
CODE:20	M10 X50LgX4pcs	M10 X50LgX4pcs
CODE:2090	3/8-16UNCX2LgX4pcs	3/8-16UNCX2LgX4pcs
Surface O-Ring	P9X1pc, P18X2pc	P9X2pc, P29X2pc
ISO Mounting	5781-AG-06-2-A	5781-AH-08-2-A

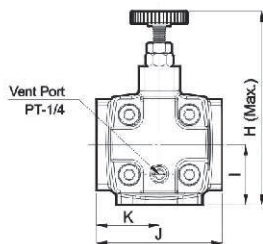


SYMBOL



Model	A	B	C	D	E	F	G	H	I	J
RG-03	159(6.25)	93.5(3.68)	40.5(1.59)	89(3.50)	11.2(.44)	69(2.71)	42(1.65)	145.5(5.72)	43(1.69)	44.5(1.75)
RG-06	186(7.32)	116.5(4.58)	40(1.57)	102(4.01)	11.3(.44)	79(3.11)	39(1.53)	143(5.62)	40(1.57)	51(2.00)

RT-03-06 Pressure Reducing Valves(Threaded Type)

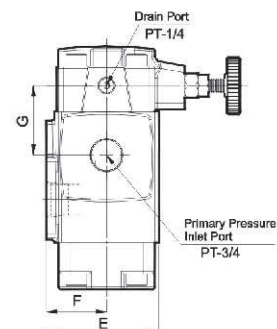
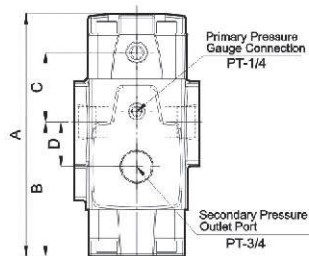
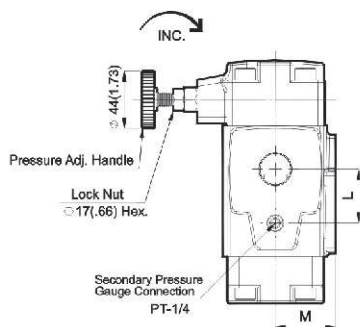


Valve Specifications & Attachment

Model	RT-03	RT-06
Flow Rating	50 lpm (13.2 gpm)	125 lpm (33 gpm)
Max. Pressure	250 bar (3600 psi)	250 bar (3600 psi)
Weight kg(lbs.)	4.3 (9.5)	6.9 (15.2)
CODE:20	3/8" PT	3/4" PT
CODE:2090	3/8" NPT	3/4" NPT



SYMBOL

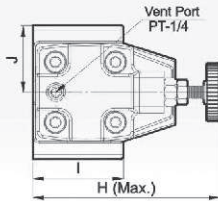


Model	A	B	C	D	E	F	G	H	I	J	K	L	M
RT-03	159(6.25)	86(3.38)	48(1.88)	30(1.18)	74(2.91)	41.5(1.63)	47(1.85)	151(5.94)	42(1.65)	80(3.14)	40(1.57)	30(1.18)	41.5(1.63)
RT-06	186(7.32)	103(4.05)	53(2.08)	34(1.33)	86(3.38)	46(1.81)	53(2.08)	148.5(5.84)	46(1.81)	96(3.77)	48(1.88)	42(1.65)	46(1.81)

DIMENSIONS

MILLIMETERS(INCHES)

RCG-03-06 Pressure Reducing with Check Valves(Sub-Plate Type)

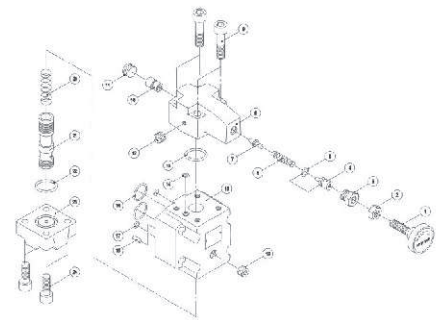
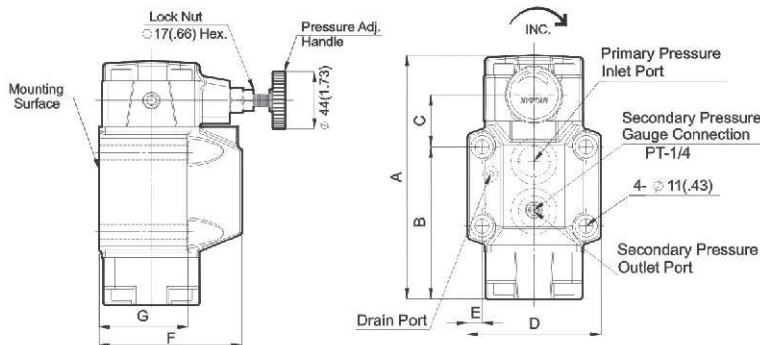
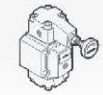


Valve Specifications & Attachment

Model	RCG-03	RCG-06
Flow Rating	50 lpm (13.2 gpm)	125 lpm (33 gpm)
Max. Pressure	250 bar (3600 psi)	250 bar (3600 psi)
Weight kg(lbs.)	5.4 (11.9)	8.1 (17.9)
CODE:20	M10 X70LgX4pcs	M10 X80LgX4pcs
CODE:2090	3/8-16UNCX3-3/4LgX4pcs	3/8-16UNCX3-1/4LgX4pcs
Surface O-Ring	P9X1pc, P18X2pc	P9X2pc, P29X2pc
ISO Mounting	5781-AG-06-2-A	5781-AH-08-2-A

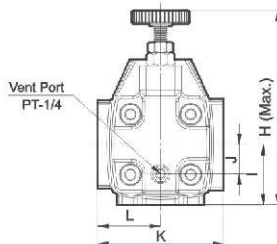


SYMBOL



Model	A	B	C	D	E	F	G	H	I	J
RCG-03	158.5(6.24)	93.5(3.68)	40.5(1.59)	89(3.50)	11.2(.44)	90(3.54)	56(2.28)	144.5(5.68)	59(2.32)	44.5(1.75)
RCG-06	186(7.32)	116.5(4.58)	40(1.57)	102(4.01)	11.3(.44)	104(4.09)	68(2.67)	142.5(5.61)	69(2.71)	51(2.00)

RCT-03-06 Pressure Reducing with Check Valves(Threaded Type)

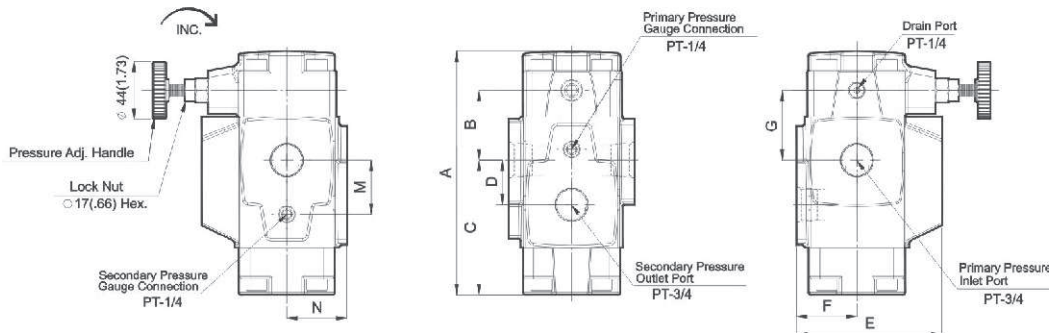


Valve Specifications & Attachment

Model	RCT-03	RCT-06
Flow Rating	50 lpm (13.2 gpm)	125 lpm (33 gpm)
Max. Pressure	250 bar (3600 psi)	250 bar (3600 psi)
Weight kg(lbs.)	4.8 (10.6)	7.8 (17.2)
CODE:20	3/8" PT	3/4" PT
CODE:2090	3/8" NPT	3/4" NPT



SYMBOL

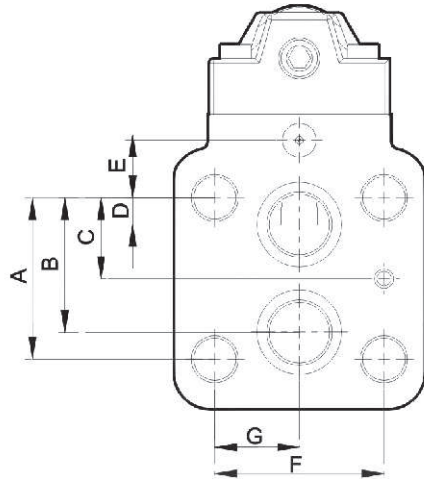


Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
RCT-03	158.5(6.24)	48(1.88)	86(3.38)	30(1.18)	95(3.74)	41.5(1.63)	47(1.85)	151(5.94)	41.5(1.63)	15.5(.61)	80(3.14)	40(1.57)	30(1.18)	41.5(1.63)
RCT-06	186(7.32)	53(2.08)	103(4.05)	34(1.33)	111(4.37)	46(1.81)	53(2.08)	148.5(5.84)	46(1.81)	22.5(.88)	96(3.77)	48(1.88)	41.5(1.63)	46(1.81)

INSTALLATION DIMENSIONS

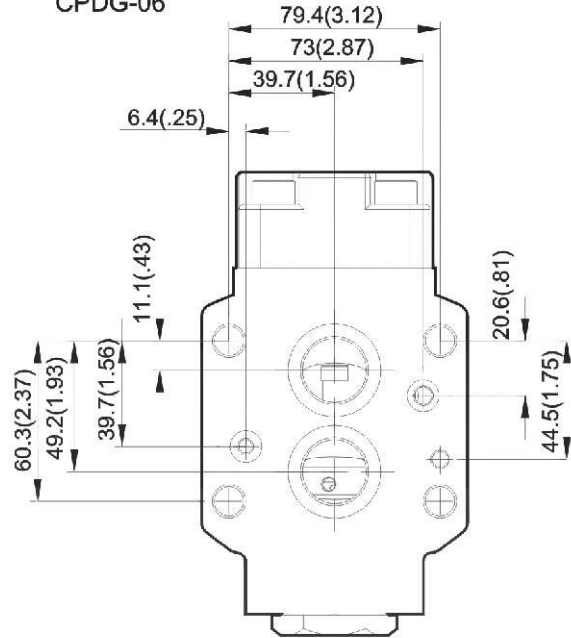
MILLIMETERS(INCHES)

BG-03-06-10
BRG-03-06-10
SBG-03-06-10

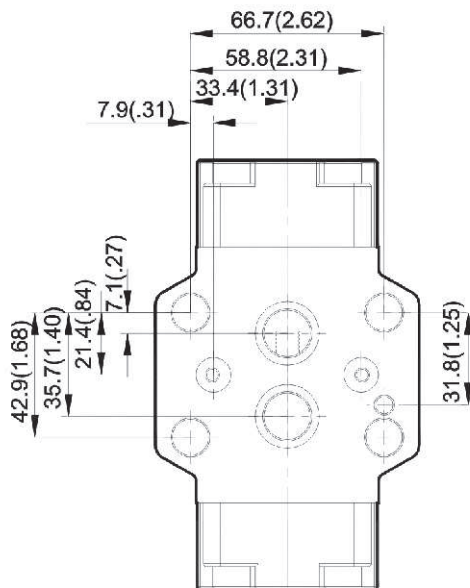


	A	B	C	D	E	F	G
03	53.8(2.11)	47.4(1.86)	22(0.86)	22(0.86)	0	53.8(2.11)	26.9(1.05)
06	66.7(2.62)	55.5(2.18)	33.4(1.31)	11(0.43)	23.8(0.93)	70(2.75)	35(1.37)
10	88.9(3.50)	76.2(3.00)	44.5(1.75)	12.7(.50)	31.8(1.25)	82.6(3.25)	41.3(1.62)

RG-06
HG-06
HCG-06
CPDG-06



RG-03
HG-03
HCG-03
CPDG-03



HG-10
HCG-10
CPDG-10

