



## Browsing through the Pocket Guide

The Pocket Guide was designed with the pages bound by top spiral, to allow smooth sliding in & out of your pocket.

 The best way to "browse" while working with your Pocket Guide is to turn the page all the way back,



Then flip the Pocket Guide horizontally to view the next page.





#### **BERMAD IR Pocket Guide**

This quick reference Pocket Guide is designed to assist you when handling and servicing BERMAD valves. It contains the most common BERMAD application & control circuits.

For those not found herein, please contact your local BERMAD representative.

The Pocket Guide is divided into eight, color distinguished, sections (A-H):

#### Section A Control Accessories:

- 1. Photo
- 2. Drawing
- 3. Connections
- 4. Icon & Operation modes

### Sections B to H Schematics of control circuits:

- 1. BERMAD code and valve application\*
- 2. Control circuit and accessories

#### Notes:

- The letter "N" in the model code, replaces the Series first digit. (For example: Model 430 will appear as N30, Model 120 as N20 etc).
- 2. The 100 Series valve also represents other Series using plastic control circuits.
- The 400 Series valve also represents other Series using metal control circuits.



## Valve Type Identification According to Series



#### 100 Series

Plastic Hydraulic / Electric Control Valves Single Chamber



#### 200 Series

Plastic Hydraulic / Electric Control Valves Single Chamber



#### 300 Series

Plastic/Metal Hydraulic / Electric Control Valves Single or Double Chamber



#### 400 Series

Hydraulic Diaphragm Control Valves Single Chamber



#### 700 Series

Hydraulic Diaphragm Control Valves Single or Double Chamber



#### 900 Series

Hydrometers / Automatic Metering Valves Single Chamber



## A Accesories

PC-Sharp-X-P	Positioning 3-Way Sharp Mini-Pilot Valve, Plastic	A-1
PC-Sharp-X-M	Positioning 3-Way Sharp Mini-Pilot Valve, Metal	A-2
PC-S-A-P	Pressure Reducing Servo 2/3-Way Mini-Pilot Valve, Plastic	A-3
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PC-20-A-P	Pressure Reducing 2-Way Mini-Pilot Valve, Plastic	A-5
PC-20-A-M	Pressure Reducing 2-Way Mini-Pilot Valve, Metal	A-6
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PC-3Q-A-P	Quick Pressure Relief Mini-Pilot Valve, Plastic	A-9
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## A Accesories

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S-390-3W S-400-3W	3-Way Solenoid Valves	A-21
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900-DD	Automatic Metering Valve (AMV) for Sequential Irrigation	B-3
N05-54-KX	Hydraulic Control Valve N.C. with Hydraulic Relay	B-4
N05-54-RXZ	Hydraulic Control Valve N.C. with Hydraulic Relay	B-5
N10-KX	Solenoid Controlled Valve	B-6
N10-N1-2W	Solenoid Controlled Valve with 2-Way Internal Control	B-7
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## C Pressure Reducing Valves

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N20-R	Pressure Reducing 2-Way Valve	C-2-3
N20-50-K	Pressure Reducing 2-Way Valve with Hydraulic Control	C-4
N20-50-R	Pressure Reducing 2-Way Valve with Hydraulic Control	C-5-6
N20-54-K	Pressure Reducing 2-Way Valve N.C. with Hydraulic Relay	C-7
N20-54-R	Pressure Reducing 2-Way Valve N.C. with Hydraulic Relay	C-8
N20-55-K	Pressure Reducing 2-Way Valve with Solenoid Control	C-9



## C Pressure Reducing Valves

N20-55-R	Pressure Reducing 2-Way Valve with Solenoid Control	C-10-11
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N20-54-bK	Pressure Reducing 2/3-Way (Servo) Valve N.C. with Hydraulic Control	C-28



## Pressure Reducing Valves

Pressure Reducing 2/3-Way (Servo) Valve N20-55-bK with Solenoid Control (982/985 Only) N20-55-bK

Pressure Reducing 2/3-Way (Servo) Valve with Solenoid Control

## D Pressure Reducing & Sustaining Valves

Proceure Poducing & Cuctaining 2 Way

N23-K	Valve	D-1
N23-R	Pressure Reducing & Sustaining 2-Way Valve	D-2-3
N23-50-K	Pressure Reducing & Sustaining 2-Way Valve with Hydraulic Control	D-4
N23-50-R	Pressure Reducing & Sustaining 2-Way Valve with Hydraulic Control	D-5-6
N23-55-K	Pressure Reducing & Sustaining 2-Way Valve with Solenoid Control	D-7
N23-55-R	Pressure Reducing & Sustaining 2-Way Valve with Solenoid Control	D-8-9
N23-KXZ	Pressure Reducing & Sustaining 3-Way Valve	D-10-11
N23-RXZ	Pressure Reducing & Sustaining 3-Way Valve	D-12
N23-50-KXZ	Pressure Reducing & Sustaining with Hydraulic Control	D-13
N23-50-RXZ	Pressure Reducing & Sustaining 3-Way Valve with Hydraulic Control	D-14



## D Pressure Reducing & Sustaining Valves

N23-54-KX	Pressure Reducing & Sustaining 3-Way Valve (N.C. with Hydraulic Relay)	D-15
N23-55-KX	Pressure Reducing & Sustaining 3-Way Valve with Solenoid Control (982/5 Only)	D-16
N23-55-RXZ	Pressure Reducing & Sustaining 3-Way Valve with Solenoid Control	D-17-18

## E Pressure Sustaining & Relief Valves

N30-K	Pressure Sustaining 2-Way Valve	
N30-R	Pressure Sustaining 2-Way Valve	E-2-3
N30-50-K	Pressure Sustaining 2-Way Valve with Hydraulic Control	E-4
N30-50-R	Pressure Sustaining 2-Way Valve with Hydraulic Control	E-5
N30-55-K	Pressure Sustaining 2-Way Valve with Solenoid Control	E-6
N30-55-R	Pressure Sustaining 2-Way Valve with Solenoid Control	E-7-8
N30-KXZ	Pressure Sustaining 3-Way Valve	E-9
N30-RXZ	Pressure Sustaining 3-Way Valve	E-10-11
N30-50-KXZ	Pressure Sustaining 3-Way Valve with Hydraulic Control	E-12
N30-50-RXZ	Pressure Sustaining 3-Way Valve with Hydraulic Control	E-13
N30-54-KX	Pressure Sustaining 3-Way Valve N.C. with Hydraulic Relay	E-14
N30-55-KX	Pressure Sustaining 3-Way Valve with Solenoid Control (982/985 Only)	E-15



## E Pressure Sustaining & Relief Valves

N30-55-KX	Pressure Sustaining 3-Way Valve with Solenoid Control	E-16
N30-55-RX	Pressure Sustaining 3-Way Valve with Solenoid Control (982/985 Only)	E-17
N30-55-RX	Pressure Sustaining 3-Way Valve with Solenoid Control	
930-D0-KX	Pressure Sustaining 3-Way Valve Automatic Metering Valve (AMV)	E-19
N3Q-K	Pressure Relief Valve (Quick Type)	E-20
N3Q-R	Pressure Relief Valve (Quick Type)	E-21

## F Level Control Valves

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750-66-B	Level Control Valve with Bi-Level Vertical Float	F-5
N50-80-XZ	Level Control Valve with Altitude Pilot	F-6-7
N53-66	Level Control & Pressure Sustaining Valve with Bi-Level Vertical Float	F-8
N57-66-U	Level & Flow Control Valve with Bi-Level Vertical Float	F-9



## **G** Flow Control Valves

170-bDZ	Flow Control Valve (Differetial Pressure Duct)	
N70-bKUZ	Flow Control Valve (Orifice Assembly)	G-2
N70-bRUZ	Flow Control Valve (Orifice Assembly)	G-3
970-KVZ	Flow Control Valve (Paddle Pilot)	
970-RVZ	Flow Control Valve (Paddle Pilot)	
170-50-bDZ	Flow Control Valve with Hydraulic Control (Differetial Pressure Duct)	
N70-50-bKUZ	Flow Control Valve with Hydraulic Control (Orifice Assembly)	G-7
N70-50-bRUZ	Flow Control Valve with Hydraulic Control (Orifice Assembly)	
970-50-KVZ	Flow Control Valve with Hydraulic Control (Paddle Pilot)	
970-50-RVZ	Flow Control Valve with Hydraulic Control (Paddle Pilot)	G-10
170-55-bD	Flow Control Valve with Solenoid Control (Differetial Pressure Duct) for 982/985 Only	
170-55-bD	Flow Control Valve with Solenoid Control (Differetial Pressure Duct)	
N70-55-bKU	Flow Control Valve with Solenoid Control (Orifice Assembly) for 982/985 Only	
N70-55-bKU	Flow Control Valve with Solenoid Control (Orifice Assembly)	
N70-55-bRU	Flow Control Valve with Solenoid Control (Orifice Assembly)	G-15
970-55-KV	Flow Control Valve with Solenoid Control (Paddle Pilot) for 982/985 Only	
970-55-KV	Flow Control Valve with Solenoid Control (Paddle Pilot)	G-17



## H Flow Control & Pressure Reducing Valves

172-bDZ	Flow Control & Pressure Reducing Valve (Differetial Pressure Duct)	H-1
N72-bKUZ	Flow Control & Pressure Reducing Valve (Orifice Assembly)	H-2
N72-bRU	Flow Control & Pressure Reducing Valve (Orifice Assembly)	H-3
972-KVZ	Flow Control & Pressure Reducing Valve (Paddle Pilot)	H-4
972-RV	Flow Control & Pressure Reducing Valve (Paddle Pilot)	H-5
172-50-bDZ	Flow Control & Pressure Reducing with Hydraulic Control (Differetial Pressure Duct)	H-6
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N72-50-bKUZ	Flow Control & Pressure Reducing with Hydraulic Control (Orifice Assembly)	H-8
N72-50-bRU	Flow Control & Pressure Reducing with Hydraulic Control (Orifice Assembly)	H-9
N72-55-bKU	Flow Control & Pressure Reducing with Solenoid Control (Orifice Assembly)	H-10
N72-55-bKU	Flow Control & Pressure Reducing with Solenoid Control (Orifice Assembly)	H-11
N72-55-bRU	Flow Control & Pressure Reducing with Solenoid Control (Orifice Assembly)	H-12
972-50-KV	Flow Control & Pressure Reducing with Hydraulic Control (Paddle Pilot)	H-13
972-50-RV	Flow Control & Pressure Reducing with Hydraulic Control (Paddle Pilot)	H-14
972-M0-55-bKV	Flow Control & Pressure Reducing with Hydraulic Control (Paddle Pilot)	
972-M0-55-RV	Flow Control & Pressure Reducing with Hydraulic Control (Paddle Pilot)	H-17



## PC-SHARP-X-P

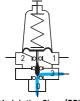
Positioning 3-Way Mini-Pilot Valve, Plastic

#### **Pilot Adjustment**

Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it

#### **Connections**

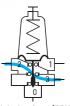
- 0 Upstream for Reducing Vent for Sustaining 1 Sensing, Regulated Pressure
- 2 Vent for Reducing
- Upstraem for Sustaining 3 Valve Control Chamber



Modulating Close (PRV) Modulating Open (PSV) Regulated pressure higher than settina: 0 ↔ 3



Locked Position Regulated pressure equal to setting: 0 k→3 k→ 2 all passages locked



Modulating Open (PRV) Modulating Close (PSV) Regulated pressure lower than setting:  $3 \leftrightarrow 2$ 



PC-Sharp-X-P

Positioning 3-Way Sharp Mini-Pilot Valve, Plastic

## PC-SHARP-X-M

Positioning 3-Way Mini-Pilot Valve, Metal

#### **Pilot Adjustment**

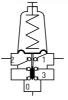
Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it

#### **Connections**

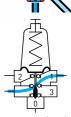
- Upstream for Reducing Vent for Sustaining
- 1,4 Sensing, Regulated Pressure Vent for Reducina 2
- Upstraem for Sustaining
- Valve Control Chamber



Modulating Close (PRV) Modulating Open (PSV) Regulated pressure higher than setting:  $0 \leftrightarrow 3$ 



Locked Position Regulated pressure equal to setting: 0 ₩3 ₩ 2 all passages locked



Modulating Open (PRV) Modulating Close (PSV) Regulated pressure lower than setting:  $3 \leftrightarrow 2$ 



PC-Sharp-X-M

## PC-S-A-P

Pressure Reducing Servo 2/3-Way Mini-Pilot Valve, Plastic

#### **Pilot Adjustment**

Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it

#### **Connections**

- Upstream for Reducing Downstream for Sustaining
- 1.2 Sensing, Regulated Pressure: Downstream for Reducing Upstraem for Sustaining
- Valve Control Chamber









Modulating Open Regulated pressure lower than setting: 3 ↔ 1, 2



PC-S-A-P Pressure Reducing Servo 2/3-Way Mini-Pilot Valve, Plastic

## PC-S-A-M

Pressure Reducing Servo 2/3-Way Mini-Pilot Valve, Metal

#### **Pilot Adjustment**

Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it

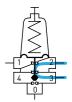
#### **Connections**

- 0 Upstream for Reducing Downstream for Sustaining
- 1 Sensing, Regulated Pressure
- 2 Downstream for Reducing Upstraem for Sustaining
- 3 Valve Control Chamber





Stable Position Regulated pressure equal to setting: 0 ↔ 3 ↔ 2 controlled passage



Modulating Open lower than setting:  $3 \leftrightarrow 2$ 



PC-S-A-M Pressure Reducing Servo 2/3-Way Mini-Pilot Valve, Metal

## PC-20-A-P

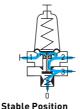
Pressure Reducing 2-Way Mini-Pilot Valve, Plastic

#### **Pilot Adjustment**

Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it

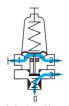
#### **Connections**

- 0 Upstream (internal restriction)
- 1 Plugged/External sensing
- 2 Downstream
- 3 Valve Control Chamber





Regulated pressure equal to setting:  $0 \leftrightarrow 3 \leftrightarrow 2$ controlled passage



Modulating Close Regulated pressure higher than setting:  $0 \leftrightarrow 3 \bowtie 2$ 



PC-20-A-P

Pressure Reducing 2-Way Mini-Pilot Valve, Plastic

## PC-20-A-M

Pressure Reducing 2-Way Mini-Pilot Valve, Metal

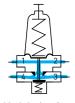
#### **Pilot Adjustment**

Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it

#### **Connections**

- 1,2 Downstream / Remote Sensing / Pressure gauge
- Valve Control Chamber
- Upstream (through internal restriction)





Modulating Open Regulated pressure lower than setting:  $4 \leftrightarrow 3 \leftrightarrow 1.2$ 



Stable Position Regulated pressure equal to setting: 4 ↔ 3 ↔ 1.2 controlled passage



Modulating Close Regulated pressure higher than setting: 4 ↔ 3 ⋈ 2



PC-20-A-M

Pressure Reducing 2-Way Mini-Pilot Valve, Metal

## PC-30-A-P

Pressure Sustaining 2-Way Mini-Pilot Valve, Plastic

#### **Pilot Adjustment**

Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it

#### **Connections**

- O Downstream
- 1 Remote Sensing
- 2 Plugged
- 3 Upstream (downstream from inlet restriction and from control chamber connection)



Modulating close Regulated pressure Lower than setting: 0 ₩3



Stable Position Regulated pressure equal to setting: n <del>\</del> → 3

controlled passage



Modulating Open Regulated pressure higher than setting: 0 ↔ 3



PC-30-A-P Pressure Sustaining 2-Way

Mini-Pilot Valve, Plastic

### PC-30-A-M

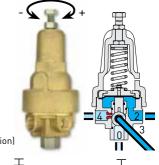
Pressure Sustaining 2-Way Mini-Pilot Valve, Metal

#### **Pilot Adjustment**

Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it

#### **Connections**

- Downstream
- 1,2 Sensing / Pressure Gauge
- Valve Control Chamber
- 4 Upstraem (through internal restriction)





#### Modulating close

Regulated pressure Lower than setting:  $4 \leftrightarrow 3 \leftrightarrow 0$ 



#### Stable Position

Regulated pressure equal to setting: 4 ↔ 3 ↔ 0 controlled passage



#### Modulating Open

Regulated pressure higher than setting: 4 ↔ 3 ↔ 0



PC-30-A-M Pressure Sustaining 2-Way

Mini-Pilot Valve, Metal

## PC-3Q-A-P

Quick Pressure Relief Mini-Pilot Valve, Plastic

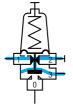
#### **Pilot Adjustment**

Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it.

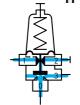
#### **Connections**

- 0 Downstream
- 1 Upstream
- 2 Plugged
- 3 Valve Control Chamber





Main Valve Closed System pressure lower than setting:  $0 \bowtie 3 \leftrightarrow 1$ 



Main Valve Opens System pressure Higher than setting:  $0 \leftrightarrow 3 \leftrightarrow 1$ 



PC-3Q-A-P

Quick Pressure Relief Mini-Pilot Valve, Plastic

## PC-3Q-A-M

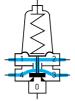
Quick Pressure Relief Mini-Pilot Valve, Metal

#### **Pilot Adjustment**

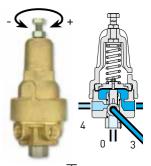
Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it

#### **Connections**

- Downstream
- 1,2 Upstraem / Pressure Gauge
- 3 Valve Control Chamber (when 4 is plugged)
- Valve Control Chamber (when 3 is plugged)



Main Valve Closed System pressure lower than setting: 1.2 ↔ 3.4 ₩ 0





Main Valve Opens System pressure Higher than setting: 1.2 ↔ 3.4 ↔ 0



PC-3Q-A-M

Quick Pressure Relief Mini-Pilot Valve, Metal

## PC-70-A-P

Paddle Flow Rate Servo Mini-Pilot Valve, Plastic

#### **Pilot Adjustment**

Turn Clock-Wise to decrease setting and Counter Clock-Wise to increase it

#### **Connections**

- 0 Upstream
- 1 Plugged
- 2 Downstream
- 3 Valve Control Chamber





Modulating Open Flow lower than setting:  $3 \leftrightarrow 2$ 



Stable Position Flow equal to setting: 0 ↔ 3 ↔ 2



Modulating Close Flow higher than setting: 0 ↔ 3



PC-70-A-P

Paddle Flow Rate Servo Mini-Pilot Valve, Plastic

## PC-70-A-M

Paddle Flow Rate Servo Mini-Pilot Valve, Metal

## **Pilot Adjustment**

Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it

#### **Connections**

- 0 Upstream
- 2 Downstream
- 3 Valve Control Chamber



Modulating Open Flow lower than setting:  $3 \leftrightarrow 2$ 



Stable Position Flow equal to setting: 0 ↔ 3 ↔ 2



**Modulating Close** Flow higher than setting: 0 ↔ 3



PC-70-A-M

Paddle Flow Rate Servo Mini-Pilot Valve, Metal



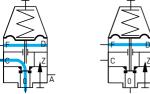
Positioning 3-Way Pilot Valve

#### Pilot Adjustment

Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it.

#### **Connections**

- Upstream for Reducing Vent for Sustaining
- C Valve Control Chamber
- A/Z Vent for Reducing
  Upstraem for Sustaining
- ${\it F/D}$  Sensing/Pressure Gauge



# **Modulating close** Regulated pressure higher than setting: $0 \leftrightarrow C$





Modulating Open Regulated pressure lower than setting: C ↔ A/Z







Pressure Reducing Pilot Valve

#### **Pilot Adjustment**

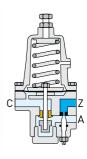
Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it.

#### **Connections**

- Z Upstream
- C Downstream
- A Valve Control Chamber

**F/D** External Sensing/ Pressure Gauge







Modulating close Regulated pressure higher than setting: Z ↔ A ⋈ C



Stable Position Regulated pressure equal to setting:  $Z \leftrightarrow A \leftrightarrow C$ controlled passage



Modulating Open Regulated pressure lower than setting:  $Z \leftrightarrow A \leftrightarrow C$ 



#2

Pressure Reducing Pilot Valve



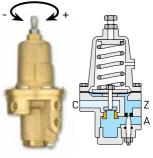
Pressure Sustaining Pilot Valve

#### Pilot Adjustment

Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it.

#### **Connections**

- Z Upstream
- C Downstream
- A Valve Control Chamber
- **F/D** External Sensing/ Pressure Gauge





Modulating close Regulated pressure Lower than setting: Z ↔ A ト>> C



Stable Position Regulated pressure equal to setting:  $Z \leftrightarrow A \leftrightarrow C$ controlled passage



Modulating Open Regulated pressure higher than setting: Z ↔ A ↔ C



#3

Pressure Sustaining Pilot Valve

#### #8

Altitude Positioning Pilot Valve

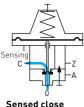
### **Pilot Adjustment**

Turn Clock-Wise to increase setting and Counter Clock-Wise to decrease it

#### **Connections**

- Upstream
- C Valve Control Chamber
- A Vent (Z Plugged)
- Z Vent through Needle Valve (A Plugged)

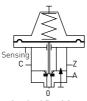
Sensing Still Point at Reservoir Bottom



Regulated pressure

0 <del>↔</del> C

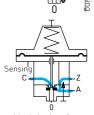
higher than setting:



**Locked Position** Sensed pressure

equal to setting: 0 HH C HH A/Z

all passages locked



**Modulating Open** Sensed pressure

lower than setting:  $C \leftrightarrow A/Z$ 



#8

Altitude Positioning Pilot Valve

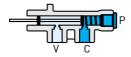
## **3W-SOP**

3-Way Shut-Off Pilot for AMV

#### **Connections**

- P Upstream Pressure
- C Control Chember
- V Vent

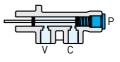






Passage Between

P and C



#### AMV Open:

Passage Between

C and V



**3W-SOP** 

3-Way Shut-Off Pilot for AMV

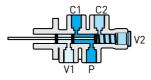
## **5W-SSOP**

5-Way Sequential Shut-off Pilot for AMV

#### **Connections**

- Pressure
- C1 Control Chember
- V1 Vent or Conection to Preceding AMV
- C2 Conection to next AMV In sequence
- V2 Vent

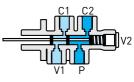




AMV Close:

Passage Between

P & C1 and C2 & V2



AMV Open (Set):

Passage Between

P & C2 and C1 & V1



**5W-SSOP** 

5-Way Sequential Shut-off Pilot for AMV

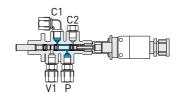
## 3W-SOP-S

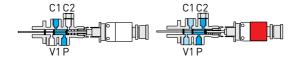
3-Way Shut-Off Pilot Valve with Pump Shut-Off Electrical Switch

#### **Connections**

- Pressure
- C1 Control Chember
- V1 Vent
- C2 Plugged







AMV Close:

Passage Between

P & C1

AMV Open (Set):

Passage Between

C1 & V1



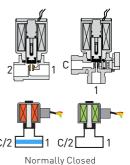
3W-SOP-S 3-Way Shut-Off Pilot Valve with Pump Shut-Off Electrical Switch

## S-390-2W



#### **Connections**

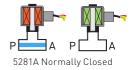
C/2 Inlet Outlet



## Burkert 5281

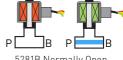






#### **Connections**

Inlet A/B Outlet



5281B Normally Open



S-390-2W / Burkert 5281

2-Way Solenoid Valves

Main Network | Irrigation Head

Infield Head

## S-390-3W







Normally Closed



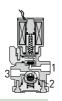
Normally Open

Vent (N.O): Pressure (N.C) C/2 Valve Control Chamber

Actuator Port Pressure (N.O): Vent (N.C)

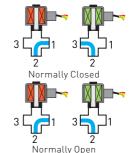
#### **5-400-3W** with Hydraulic Base





#### **Connections**

- 1 Vent (N.O); Pressure (N.C)
- 2 Valve Control Chamber
- 3 Pressure (N.O): Vent (N.C)





5-390-3W / 5-400-3W

3-Wau Solenoid Valves

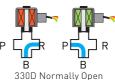
### Burkert 330 with Isolating Membrane



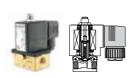
#### **Connections**

Vent A/B Valve Control Chamber Pressure

# Ρ 330C Normally Closed



## Burkert 6014

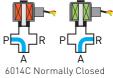


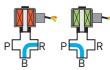
#### **Connections**

R Vent

A/B Valve Control Chamber

Pressure





6014D Normally Open



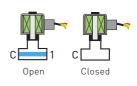
Burkert 330 / Burkert 6014

3-Wau Solenoid Valves

## **S-392-2W**

Magnetic Latch Solenoid, Actuator or with Base





#### **Connections**

- 1 Downstream
- **C** Pressure

Main Network | Irrigation Head

Infield Head

#### S-982/985-3W with Isolating Membrane



#### **Connections**

- Vent
- Valve Control Chamber
- Pressure

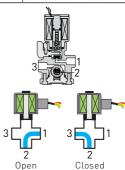
# 3 Closed Open

#### **5-402-3W**



#### **Connections**

- Vent
- Valve Control Chamber
- 3 Pressure





BERMAD

3-Way Magnetic Latch Solenoid Valves

# In-Line Self Flushing Filter







#### Y-Strainer Control Filter







# Large Control Filter







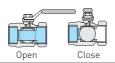


In-Line / Y-Strainer / Large Control Filters

# 2-Way Ball Valve

#### On-Off Manual Control







# 3-Way Ball Valve

#### 2-Position On-Off Manual Control









# Control Loops

# 2-Way Manometer Ball Valve

#### Manual Isolating and Venting









Control Loops



2-Way / 3-Way / 2-Way Manometer Ball Valves

# 4-Wau

# 3-Positions Manual Selector

#### On-Off Manual Control











Automatic Mode: Passage between

Common and A

Close Mode:

Passage between Common and C

Open Mode:

Passage between Common and O



4-Way 3-Positions Manual Selector Ball Valves

#### 50-P Plastic



**Connections** 

Inlet

2 Outlet





Mode A:

Command -No Passage Between 1 and 2

(Main Valve Closes)

Mode B:

No Command -Passage Between 1 and 2

(Main Valve Opens)

#### 50-M Metal







Mode A:

Command -No Passage Between 1 and 2

(Main Valve Closes)

Mode B:

No Command -Passage Between

1 and 2

(Main Valve Opens)

#### **Connections**



2 Outlet



50-P / 50-M

2-Way Hydraulic Relay Valves (2W-HRV)

#### 54-PZ Plastic, Double Chamber



#### **Connections**

- 1 Command
- 2 Vent for N.O. Upstream for N.C
- 3 Upstream for N.O Vent for N.C
- 4 Valve Control Chamber





Mode A: Command-Passage Between 3 and 4

Mode B: No Command-Passage Between 2 and 4

#### 54-M Metal, Single Chamber



#### **Connections**

- 1 Upstream for N.O Vent for N.C
- 2 Control Chamber
- 0 Vent for N.O. Upstream for N.C
- U Command



Mode A: Command-Passage Retween

- 0 and 2
- \* N.O: with top spring (main valve closed) \* N.C: with bottom spring (main valve open)



Mode B: No Command-Passage Retween

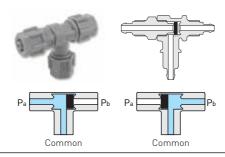
1 and 2



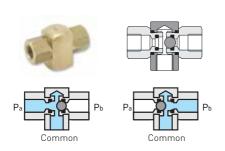
54-PZ / 54-M

3-Wau Hudraulic Relau Valves (3W-HRV)

#### **50-X-P** Plastic Pressure Selector Shuttle Valve



#### 50-X-M Metal Pressure Selector Shuttle Valve



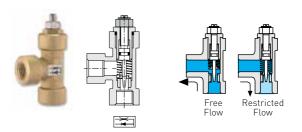


50-X-P / 50-X-M

## One-Way Flow Control Plastic



# One-Way Flow Control Metal

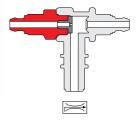




One-Way Flow Control Flow Control Valves

#### Restrection Orifice Plastic





#### Needle Valve Metal

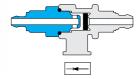






#### 20-P Plastic Check Valve





# 20-M Metal Check Valve



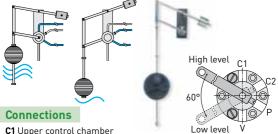






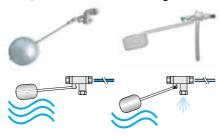
20-P / 20-M Check Valves

#### #66 4-Way Bi-Level Vertical Float



- C2 Lower control chamber (or plugged)
- P Upstream pressure
- **v** Vent

### #60-P/#60-M Modulating Horizontal Float



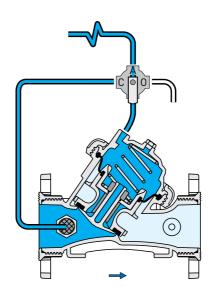


#66 / #60-P / #60-M

Floats

### NO5-Z 105 | 205 | 300 | 405 | 900

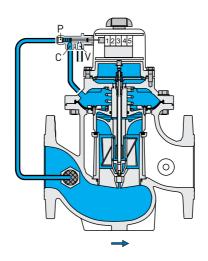
with Manual Selector





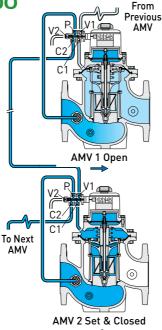
**NO5-Z** Hydraulic Control Valve

# 900-D0







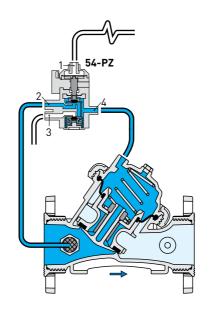




900-DD Automatic Metering Valve (AMV) for Sequential Irrigation

# NO5-54-KX 105 | 205 | 300 | 405 | 900

Plastic Accessories

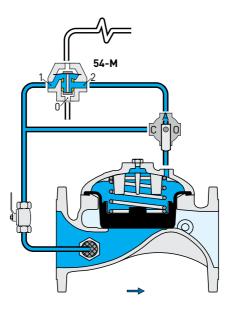




NO5-54-KX Hydraulic Control Valve N.C. with Hydraulic Relay

# NO5-54-RXZ 405 | 900

Metal Accessories

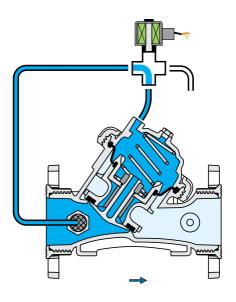




NO5-54-RXZ Hydraulic Control Valve N.C. with Hydraulic Relay

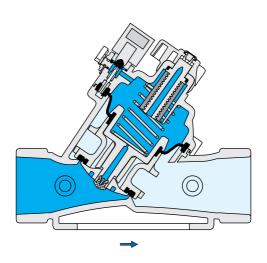
#### NIO-KX 110 | 210 | 310 | 410 | 910

Plastic Accessories



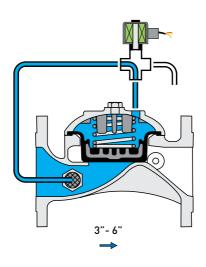


**NIO-KX** Solenoid Controlled Valve





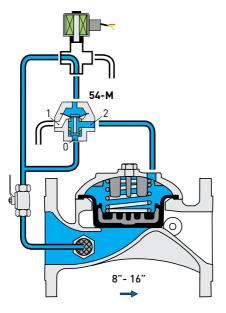
#### Metal Accessories





#### NIO-RX 410 | 910

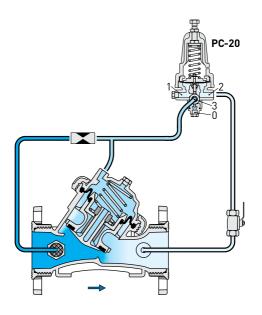
Metal Accessories





#### N2O-K 120 | 220 | 320 | 420 | 920

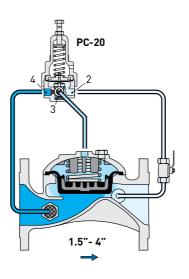
Plastic Accessories





### N2O-R 420 | 920

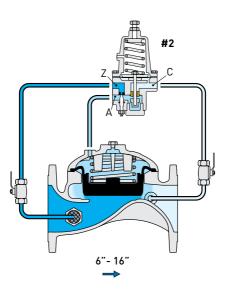
Metal Accessories





#### N2O-R 420 | 920

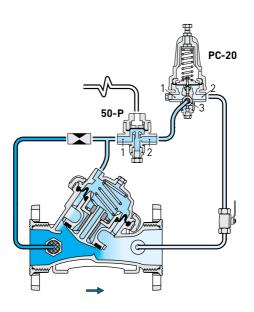
Metal Accessories





#### N2O-5O-K 120 | 220 | 320 | 420 | 920

Plastic Accessories

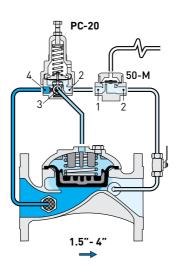




N20-50-K Pressure Reducing 2-Way Valve with Hydraulic Control

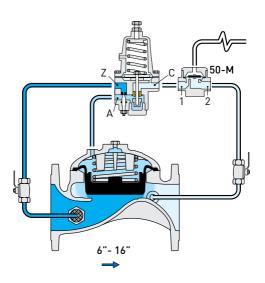
# N2O-5O-R 420 | 920

Metal Accessories





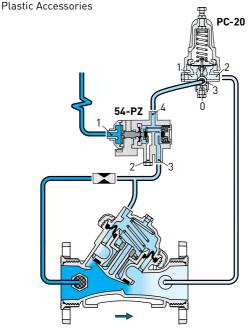
Metal Accessories





N20-50-R Pressure Reducing 2-Way Valve with Hydraulic Control

#### N2O-54-K 120 | 220 | 320 | 420 | 920



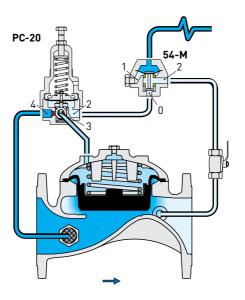


N20-54-K Pressure Reducing 2-Way Valve

N.C. with Hydraulic Relay

#### N2O-54-R 420 | 920

Metal Accessories

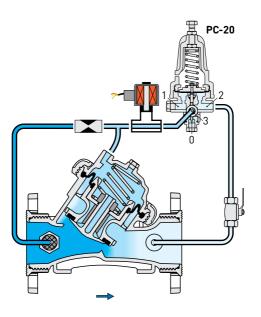




N20-54-R Pressure Reducing 2-Way Valve N.C. with Hydraulic Relay

### N2O-55-K 120 | 220 | 320 | 420 | 920

Plastic Accessories

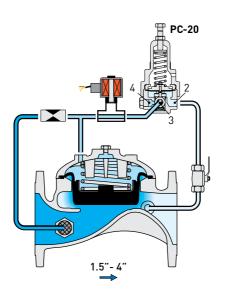




N20-55-K Pressure Reducing 2-Way Valve with Solenoid Control

#### N2O-55-R 420 | 920

Metal Accessories

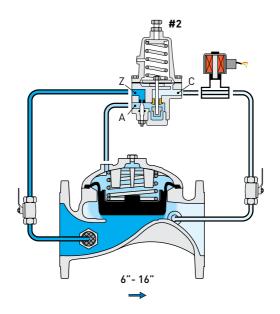




N20-55-R Pressure Reducing 2-Way Valve with Solenoid Control

#### N2O-55-R 420 | 920

Metal Accessories

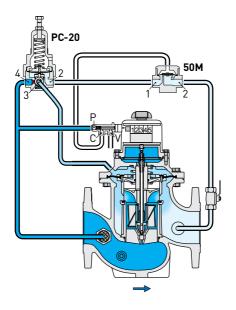




N20-55-R Pressure Reducing 2-Way Valve with Solenoid Control

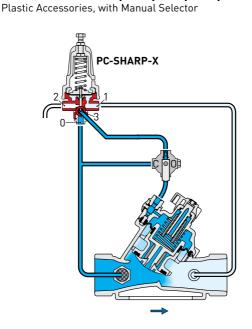
#### IR-920-D2-R

Metal Accessories



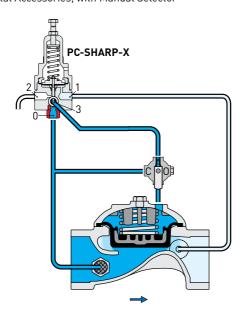


IR-920-D2-R Pressure Reducing 2-Way Valve Automatic Metering Valve (AMV)



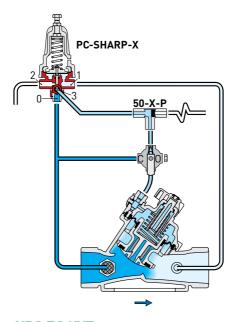


Metal Accessories, with Manual Selector





Plastic Accessories, with Manual Selector

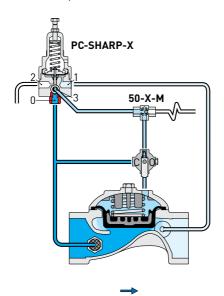




N20-50-KXZ Pressure Reducing 3-Way Sharp Valve with Hydraulic Control

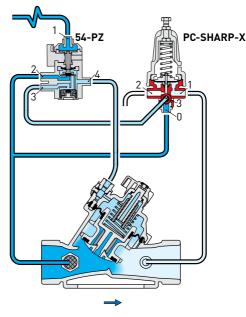
#### N2O-5O-RXZ 420 | 920

Metal Accessories, with Manual Selector





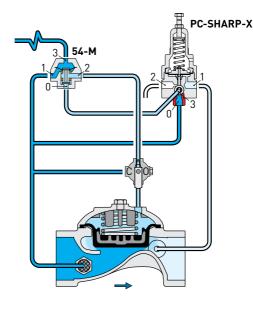
Plastic Accessories





N2O-54-KX Pressure Reducing 3-Way Sharp

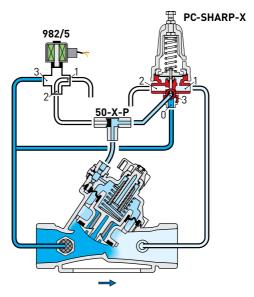
## N2O-54-RXZ 420 | 920





# N2O-55-KX 120 | 220 | 320 | 420 | 920

Plastic Accessories

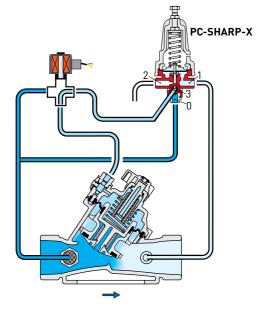




N2O-55-KX Pressure Reducing 3-Way Sharp Valve with Solenoid Control (982/985 Only)

# N2O-55-KX 120 | 220 | 320 | 420 | 920

Plastic Accessories

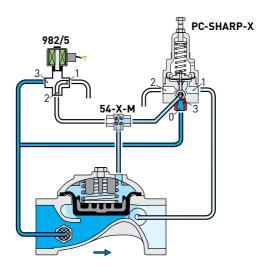




N2O-55-KX Pressure Reducing 3-Way Sharp Valve with Solenoid Control

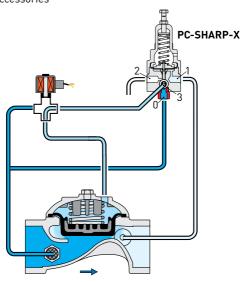
#### N2O-55-RX 420 | 920

Metal Accessories



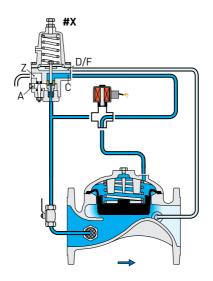
Infield Head







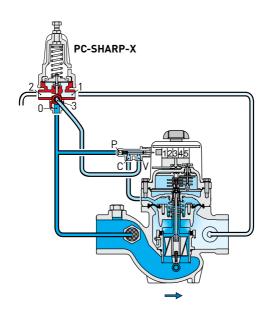
## N2O-55-RX 420 | 920





#### IR-920-D0-KX

Plastic Accessories

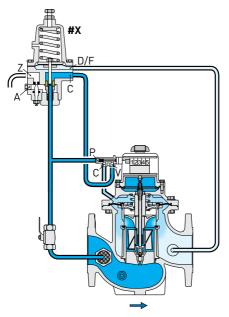




IR-920-DO-KX Pressure Reducing 3-Way Sharp Valve Automatic Metering Valve (AMV)

#### 920-D2-RX

Metal Accessories

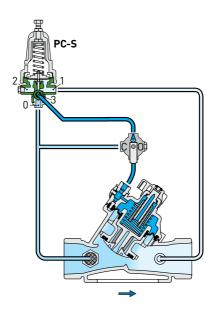




920-D2-RX Pressure Reducing 3-Way Valve Automatic Metering Valve (AMV)

#### N2O-bKZ 120 | 220 | 320 | 420 | 920

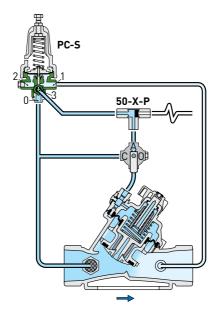
Plastic Accessories, with Manual Selector





### N2O-5O-bKZ 120 | 220 | 320 | 420 | 920

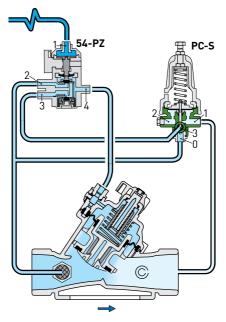
Plastic Accessories, with Manual Selector





# N2O-54-bK 120 | 220 | 320 | 420 | 920

Plastic Accessories

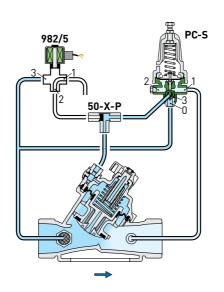




N20-54-bK Pressure Reducing 2/3-Way (Servo) Valve N.C. with Hydraulic Control

## N2O-55-bK 120 | 220 | 320 | 420 | 920

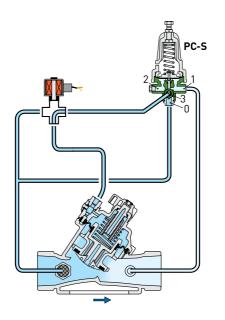
Plastic Accessories





## N2O-55-bK 120 | 220 | 320 | 420 | 920

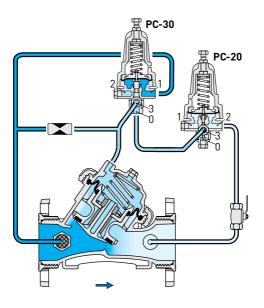
Plastic Accessories





#### N23-K 123 | 223 | 323 | 423 | 923

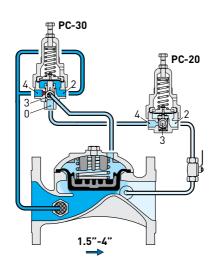
Plastic Accessories





N23-K Pressure Reducing & Sustaining 2-Way Valve

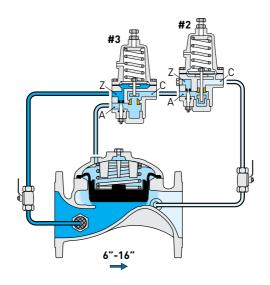






## N23-R 423 | 923

Metal Accessories

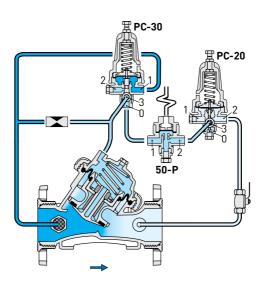




N23-R Pressure Reducing & Sustaining 2-Way Valve

## N23-50-K 123 | 223 | 323 | 423 | 923

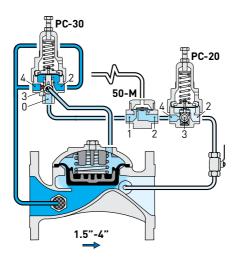
Plastic Accessories





# N23-50-R 423 | 923

Metal Accessories

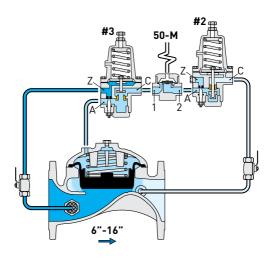




N23-50-R Pressure Reducing & Sustaining 2-Way Valve with Hydraulic Control

## N23-50-R 423 | 923

Metal Accessories

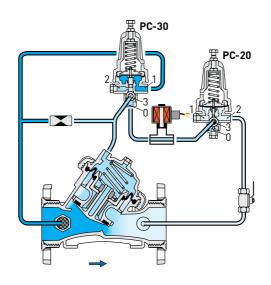




N23-50-R Pressure Reducing & Sustaining 2-Way Valve with Hydraulic Control

#### N23-55-K 123 | 223 | 323 | 423 | 923

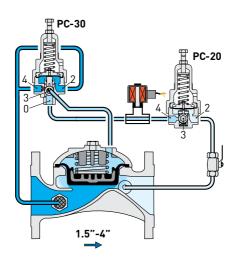
Plastic Accessories





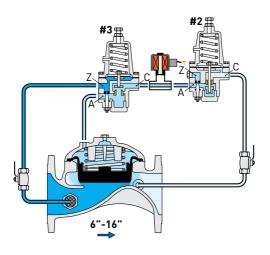
N23-55-K Pressure Reducing & Sustaining 2-Way Valve with Solenoid Control

## N23-55-R 4231923





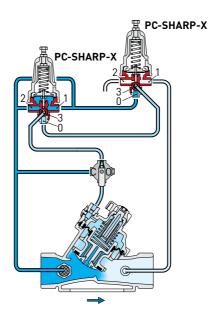
## N23-55-R 423 | 923





#### N23-KXZ 123 | 223 | 323 | 423 | 923

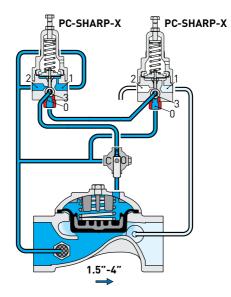
Plastic Accessories, with Manual Selector





N23-KXZ Pressure Reducing & Sustaining 3-Way Sharp Valve

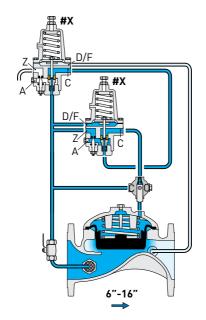
N23-RXZ 423 | 923 Metal Accessories, with Manual Selector





#### N23-RXZ 423 | 923

Metal Accessories, with Manual Selector

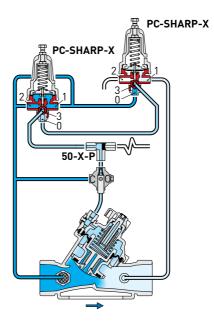




N23-RXZ Pressure Reducing & Sustaining

## N23-50-KXZ 123 | 223 | 323 | 423 | 923

Plastic Accessories, with Manual Selector

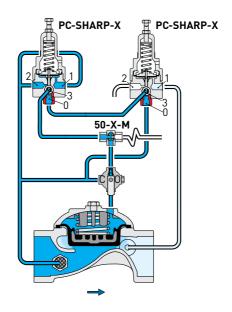




N23-50-KXZ Pressure Reducing & Sustaining 3-Way Sharp Valve with Hydraulic Control

#### N23-50-RXZ 423 | 923

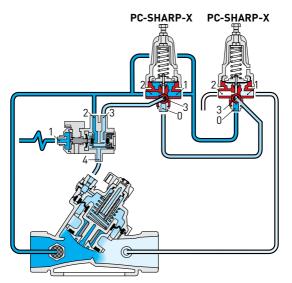
Metal Accessories, with Manual Selector





## N23-54-KX 123 | 223 | 323 | 423 | 923

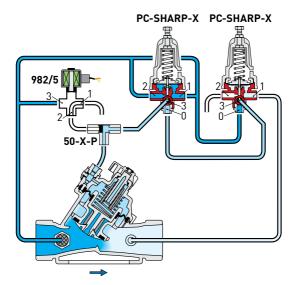
Plastic Accessories





## N23-55-KX 123 | 223 | 323 | 423 | 923

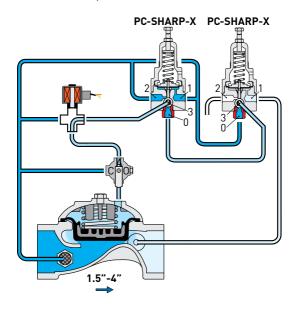
Plastic Accessories





## N23-55-RXZ 123 | 223 | 323 | 423 | 923

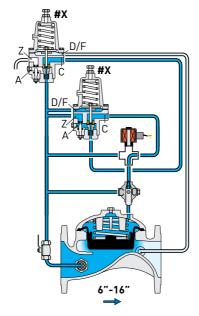
Metal Accessories, with Manual Selector





#### N23-55-RXZ 123 | 223 | 323 | 423 | 923

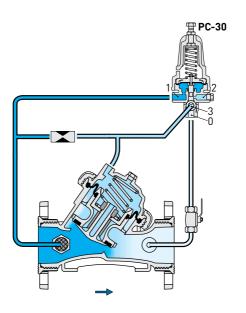
Metal Accessories, with Manual Selector





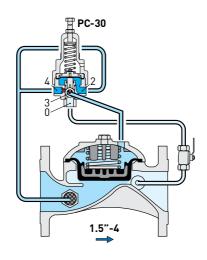
#### N3O-K 130 | 230 | 330 | 430 | 930

Plastic Accessories



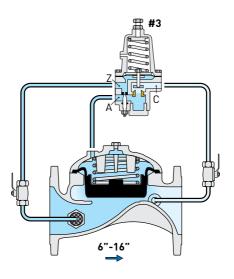


## N3O-R 430 | 930





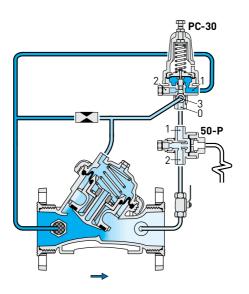
## N3O-R 430 | 930





### N3O-5O-K 130 | 230 | 330 | 430 | 930

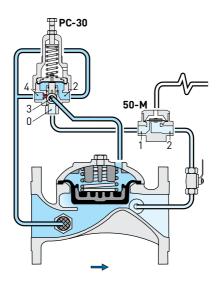
Plastic Accessories





N30-50-K Pressure Sustaining 2-Way Valve with Hydraulic Control

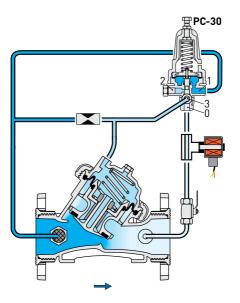
### N30-50-R 430 | 930





# N3O-55-K 130 | 230 | 330 | 430 | 930

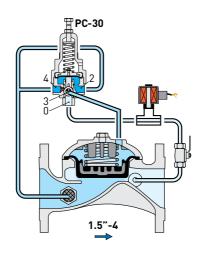
Plastic Accessories





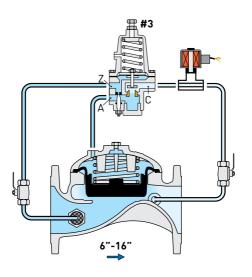
N30-55-K Pressure Sustaining 2-Way Valve with Solenoid Control

# N3O-55-R 430 | 930





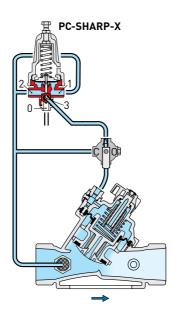
## N3O-55-R 430 | 930





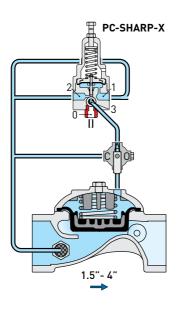
# N3O-KXZ 130 | 230 | 330 | 430 | 930

Plastic Accessories, with Manual Selector





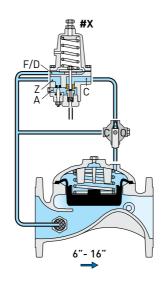
Metal Accessories, with Manual Selector





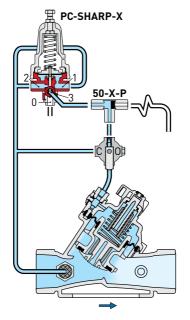
# N3O-RXZ 430 | 930

Metal Accessories, with Manual Selector





Plastic Accessories, with Manual Selector

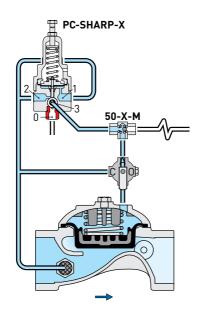




N30-50-KXZ Pressure Sustaining 3-Way Sharp Valve with Hydraulic Control

## N30-50-RXZ 4301930

Metal Accessories, with Manual Selector

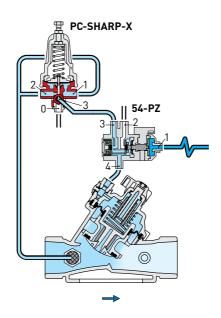




N30-50-RXZ Pressure Sustaining 3-Way Sharp Valve with Hydraulic Control

N3O-54-KX 130 | 230 | 330 | 430 | 930

Plastic Accessories

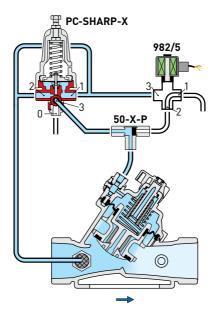




N30-54-KX Pressure Sustaining 3-Way Sharp Valve N.C. with Hydraulic Relay

# N3O-55-KX 130 | 230 | 330 | 430 | 930

Plastic Accessories

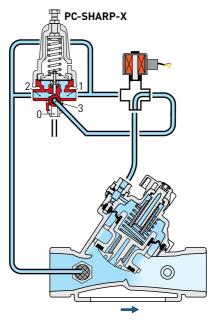




N30-55-KX Pressure Sustaining 3-Way Sharp Valve with Solenoid Control (982/985 Only)

# N3O-55-KX 130 | 230 | 330 | 430 | 930

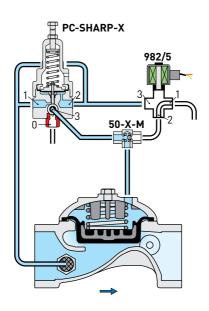
Plastic Accessories





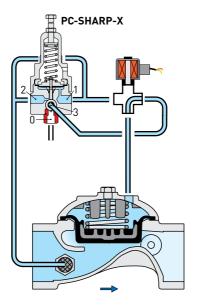
N30-55-KX Pressure Sustaining 3-Way Sharp Valve with Solenoid Control

# N30-55-RX 430 | 930





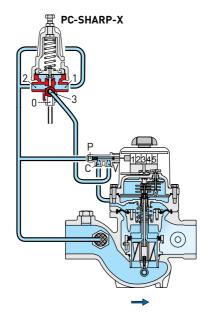
# N30-55-RX 430 I 930





# 930-D0-KX

Plastic Accessories

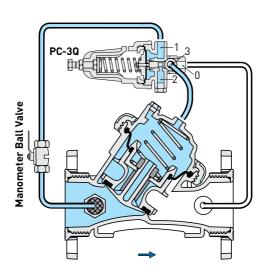




930-DO-KX Pressure Sustaining 3-Way Sharp Automatic Metering Valve (AMV)

# N3Q-K 13Q | 33Q

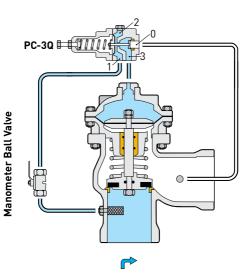
Plastic Accessories





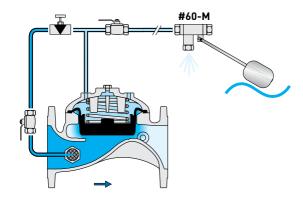
Infield Head

# N3Q-R 43Q | 73Q





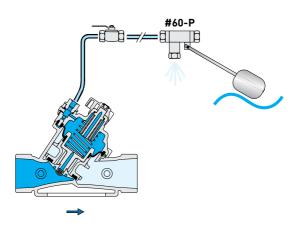
# N50-60-R 450-60



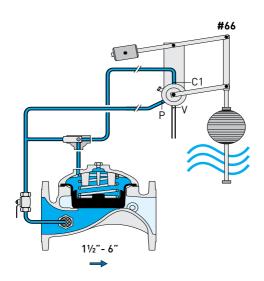


#### N50-N3-60-K 150-60 | 250-60

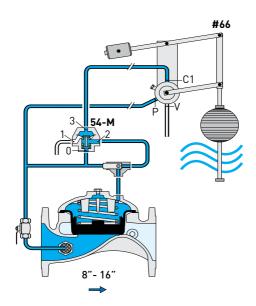
Plastic Accessories





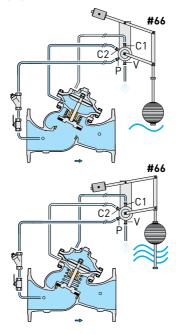








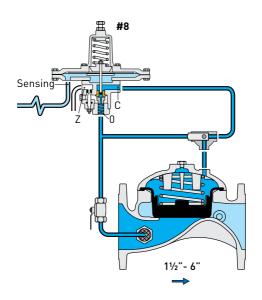
# 750-66-B





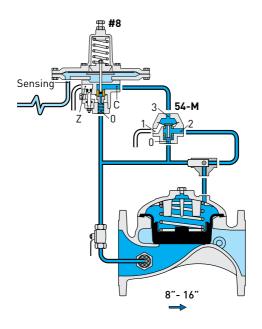
750-66-B Level Control Valve with Bi-Level Vertical Float

# N50-80-XZ 450-80 | 750-80



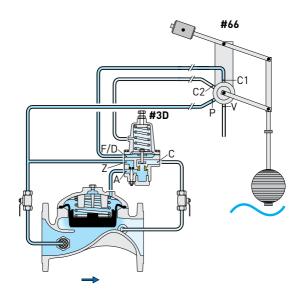


## N50-80-XZ 450-80 | 750-80





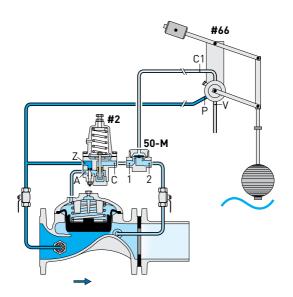
#### N53-66 453-66 | 753-66





N53-66 Level Control & Pressure Sustaining Valve with Bi-Level Vertical Float

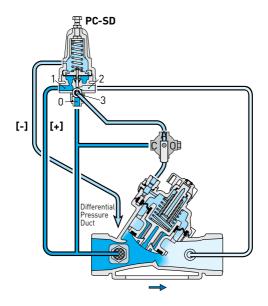
### N57-66-U 457-66 | 757-66





# 170-bDZ

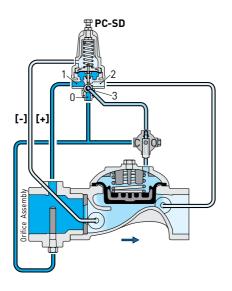
Plastic Accessories, with Manual Selector





170-bDZ Flow Control Valve (Differetial Pressure Duct)

Plastic Accessories, with Manual Selector

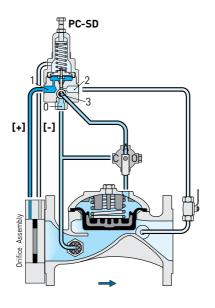




Infield Head

# N70-bRUZ 4701970

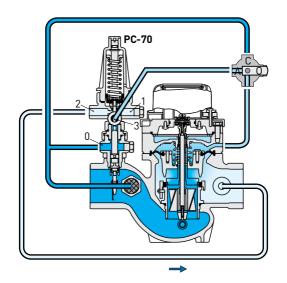
Metal Accessories, with Manual Selector





N70-bRUZ Flow Control Valve (Orifice Assembly)

Plastic Accessories, with Manual Selector

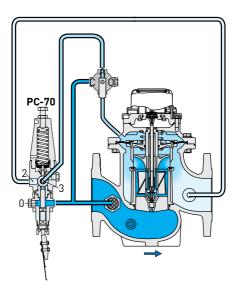




970-KVZ Flow Control Valve (Paddle Pilot)

# 970-RVZ

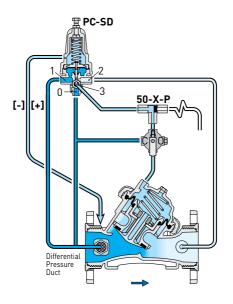
Metal Accessories, with Manual Selector





#### **170-50-bDZ**

Plastic Accessories, with Manual Selector

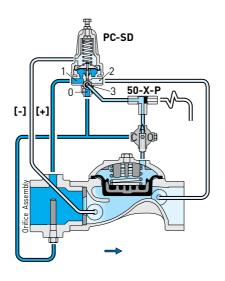




170-50-bDZ Flow Control Valve with Hydraulic Control (Differetial Pressure Duct)

### N7O-5O-bKUZ 470-50 | 970-50

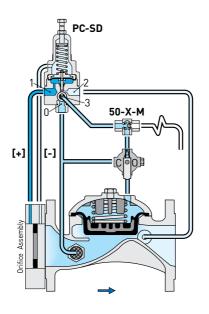
Plastic Accessories, with Manual Selector





### N7O-5O-bRUZ 470-50 | 970-50

Metal Accessories, with Manual Selector

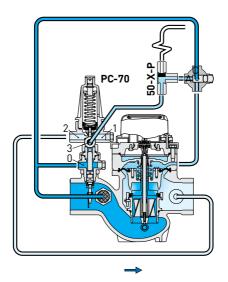




N70-50-bRUZ Flow Control Valve with Hydraulic Control (Orifice Assembly)

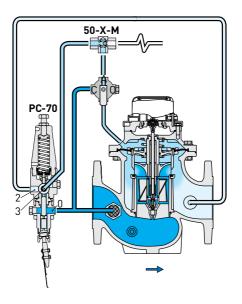
### 970-50-KVZ

Plastic Accessories, with Manual Selector





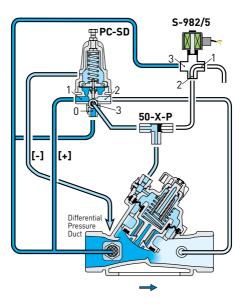
Metal Accessories, with Manual Selector





### **170-55-bD**

Plastic Accessories

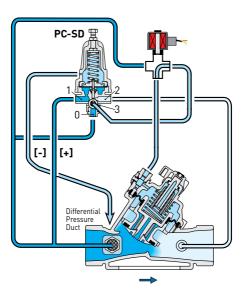




I70-55-bD Flow Control Valve with Solenoid Control (Differetial Pressure Duct) for 982/985 Only

### **170-55-bD**

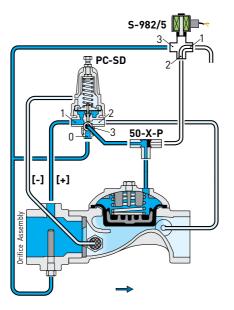
Plastic Accessories





I70-55-bD Flow Control Valve with Solenoid Control (Differetial Pressure Duct)

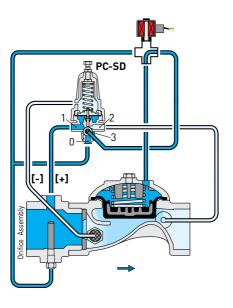
Plastic Accessories





#### N7O-55-bKU 470-55 | 970-55

Plastic Accessories



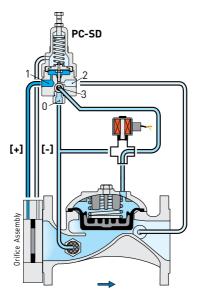


N70-55-bKU Flow Control Valve with Solenoid Control (Orifice Assembly)

Infield Head

# N7O-55-bRU 470-55 | 970-55

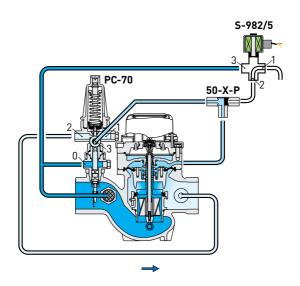
Metal Accessories





## 970-55-KV

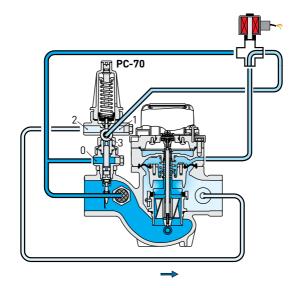
Plastic Accessories





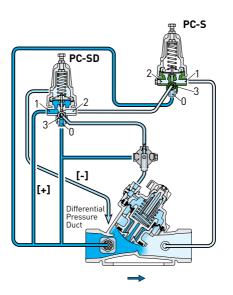
# 970-55-KV

Plastic Accessories





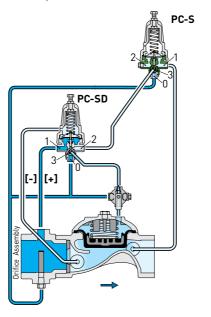
Plastic Accessories, with Manual Selector





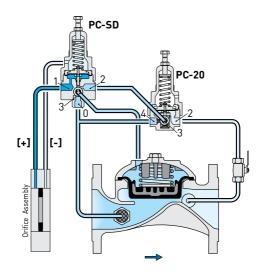
172-bDZ Flow Control & Pressure Reducing Valve (Differetial Pressure Duct)

Plastic Accessories, with Manual Selector



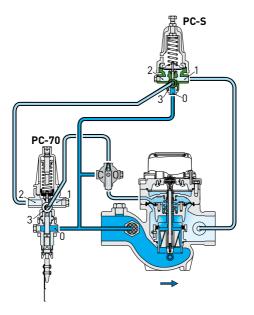


N72-bKUZ Flow Control & Pressure Reducing Valve (Orifice Assembly) Metal Accessories, with Manual Selector





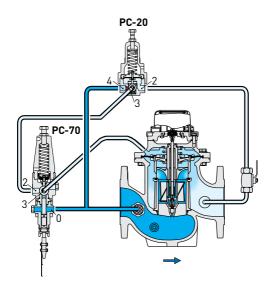
Plastic Accessories, with Manual Selector





972-KVZ Flow Control & Pressure Reducing Valve (Paddle Pilot)

Metal Accessories, with Manual Selector

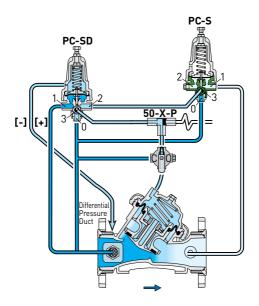




972-RV Flow Control & Pressure Reducing

Valve (Paddle Pilot)

#### Plastic Accessories



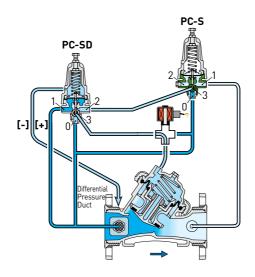


172-50-bDZ Flow Control & Pressure Reducing with Hydraulic Control (Differential Pressure Duct)

Infield Head

# 172-55-bD

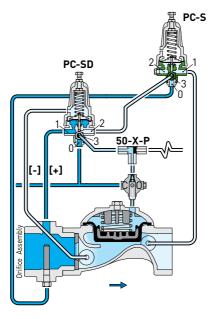
Plastic Accessories





### N72-50-bKUZ 472-50 | 972-50

Plastic Accessories, with Manual Selector

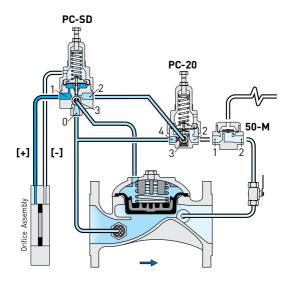




N72-50-bKUZ Flow Control & Pressure Reducing with Hydraulic Control (Orifice Assembly)

### N72-50-bRU 472-50 | 972-50

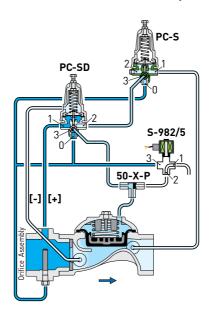
Metal Accessories, with Manual Selector





#### N72-55-bKU 472-55 | 972-55

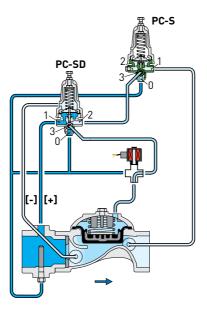
Plastic Accessories, for 982/985 Solenoid only





## N72-55-bKU 472-55 | 972-55

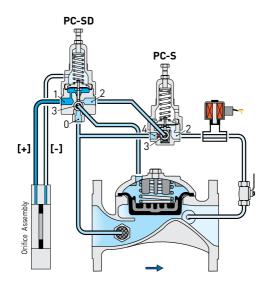
Plastic Accessories





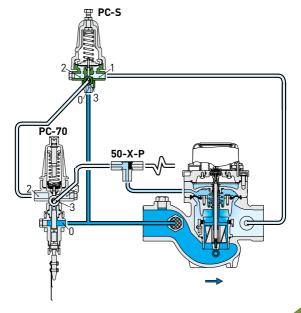
## N72-55-bRU 472-55 | 972-55

Metal Accessories





Plastic Accessories

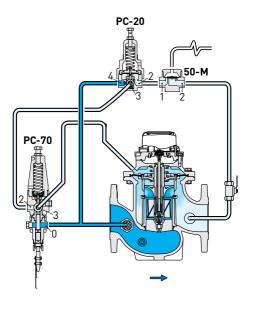




972-50-KV Flow Control & Pressure Reducing with Hydraulic Control (Paddle Pilot)

# 972-50-RV

Metal Accessories

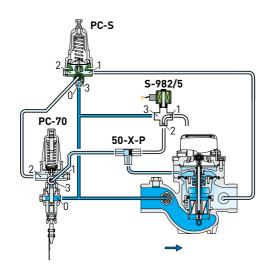




972-50-RV Flow Control & Pressure Reducing with Hydraulic Control (Paddle Pilot)

#### 972-M0-55-bKV

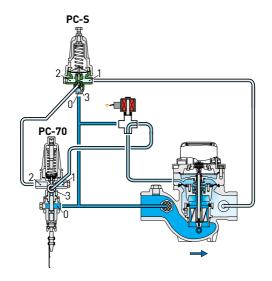
Plastic Accessories, for 982/985 Solenoid only





Infield Head

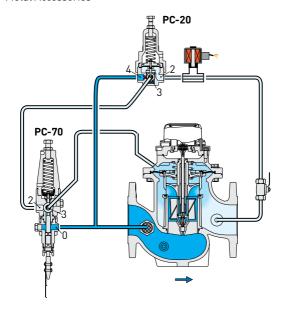
Plastic Accessories





972-MO-55-bKV Flow Control & Pressure Reducing with Hydraulic Control (Paddle Pilot)

Metal Accessories





972-MO-55-RV Flow Control & Pressure Reducing with Hydraulic Control (Paddle Pilot)

# **Conversion Table**

To Convert From	То	Multiply By
Presuure		
kg/cm <sup>2</sup>	psi	14.22
bar	psi	14.50
kPa	psi	0.145
	Water Head	
m	psi	1.422
	Flow	
l/s	gpm	15.873
m³/h	gpm	4.405
	Length	
mm	in	0.0394
m	ft	3.2808
Volume		
l	gal	0.264
$m^3$	gal	264.2
$m^3$	ft <sup>3</sup>	35.315
	Weight	
kg	lb	2.205

To Convert From	То	Multiply By		
Presuure				
psi	kg/cm <sup>2</sup>	0.070		
psi	bar	0.069		
psi	kPa	6.896		
Water Head				
psi	m	0.703		
	Flow			
gpm	l/s	0.063		
gpm	m³/h	0.227		
	Length			
in	mm	25.40		
ft	m	0.3048		
Volume				
gal	l	3.785		
gal	m³	0.00378		
ft <sup>3</sup>	m <sup>3</sup>	0.0283		
Weight				
lb	kg	0.454		

Presuure		
kg/cm <sup>2</sup>	kilogram per	
	square centimeter	
psi	pound per square inch	
bar	bar	
kPa	kilo pascal	

Flow		
l/s m³/h gpm	litre per second cubic metre/hour gallon per minute	

	n
	n
	ir
	ft
<b>L</b>	ľ
	N

engui		
nm	millimetre	
1	metre	
1	inch	

foot

l litre
gal gallon
m³ cubic metre
ft³ cubic foot

Volume

#### Weight kg kilogram lb pound

Note: gal and gpm = U.S.A. gallons

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