

Pneumatikus működtetésű ferdeülékű szelepek  
Rozsdamentes acél levegőelőkészítők (FRL)  
Nyomáscsökkentő és nyomástartó szelepek  
Multifunkciós hengeres kalakítású szelepek

**BRAVA BEAR**  
BRAVA BEAR



**BRAVA BEAR KERESKEDELMI ÉS SZOLGÁLTATÓ BT.**

+36-20-2333-561

[info@bravabear.hu](mailto:info@bravabear.hu)

[www.bravabear.hu](http://www.bravabear.hu)

Media : air – water – oil - steam  
 Pressure range : 0 to 16 bar Max  
 Media temperature : -10° to +200° C max  
 Ambient temperature: +5° to +60°  
 Media viscosity : 600 centistokes max  
 Mounting : any position  
 Pilot Media : air – water – gas  
 Pilot Pressure : 5 to 8 Bar

# Piston Stainless

## 3/8 - 3

### ANGLE SEAT PISTON VALVE

### 2 WAY AIR DIRECT ACTING

## 0 – 16 Bar

## Type FUPSS



#### PRESSURE

Ø Port BSP	Function	Ø Orifice (mm)	Flow Kv Ltr/Min	Pressure (bar) ΔP			Actuator (mm)	Part Number
				Min	1 ← 2 Over Seat	1 → 2 Under seat		
3/8	N/Closed	10	75	0	16	8	40	FUP10SS
1/2	N/Closed	15	90	0	16	8	40	FUP15SS
3/4	N/Closed	20	167	0	16	8	50	FUP20SS
1	N/Closed	25	253	0	16	8	50	FUP25SS
1 1/4	N/Closed	32	383	0	16	8	63	FUP32SS
1 1/2	N/Closed	40	683	0	16	8	80	FUP40SS
2	N/Closed	50	1183	0	16	8	80	FUP50SS
2 1/2	N/Closed	65	1800	0	16	16	100	FUP65SS
3	Double Acting	80	2667	0	16	16	125	FUP80SS

#### OPTIONS

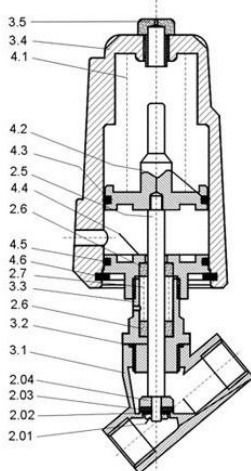
Visual Position Indicator (Except 3 (Double acting))  
 Anti water hammer flow 1 → 2 (Flow under seat)  
 Normally Open Version (Except ASPV80SS double acting)  
 Open + Closed Position Proximity Switch (Black Synthetic Actuator only)  
 Modulating, Position Switch, Normally Open, Double Acting, 3 Way, Flanged and other custom made options available upon request

#### CONSTRUCTION

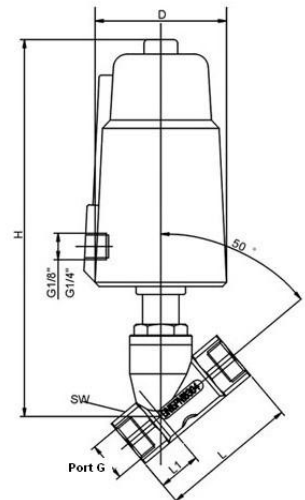
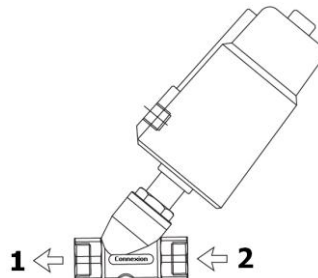
Body, Tube, Piston and internal parts : AISI316 (CF8M) stainless steel  
 Actuator : AISI304 stainless steel (Rotation 360°)  
 Seals and gaskets : Valve - PTFE Actuator - FKM  
 Moulded coil : Resin

#### OVERALL DIMENSIONS

Parts List	
2.01 Bolt	
2.02 Orifice Plate Seal	
2.03 Disc Seal	
2.04 Disc	
2.5 Steam	
2.6 V Seal	
2.7 Spring	
3.1 Body	
3.2 Seal Ring	
3.3 Screw connector	
3.4 Cylinder	
3.5 Cover	
4.1 Spring	
4.2 Piston	
4.3 O ring	
4.4 Bonnet	
4.5 O Ring	
4.6 Bearing Ring	



DN	Port	L	L1	SW	H	D	Act	Pilot
10	3/8	55	17	21	120	51	40	1/8
15	1/2	70	21	26.5	138	51	40	1/8
20	3/4	76	23	32	154	62	50	1/8
25	1	90	25	40	168	62	50	1/8
32	1 1/4	116	32	50	200	76	63	1/8
40	1 1/2	116	32	55.5	215	92	80	1/8
50	2	138	40	68.5	230	92	80	1/8
65	2 1/2	168	51	85	268	117	100	1/4
80	3	192	54	100	325	140	125	1/4



Media : air – water – oil - steam  
 Pressure range : 0 to 16 bar Max  
 Media temperature : -10° to +200° C max  
 Ambient temperature: +5° to +60°  
 Media viscosity : 600 centistokes max  
 Mounting : any position  
 Pilot Media : air – water – gas  
 Pilot Pressure : 4 to 6 Bar  
 Pilot Inlet : 1/8 BSP

# Piston Stainless

## 1/2 to 1 BSP

### ANGLE SEAT PISTON VALVE

### 3 WAY AIR DIRECT ACTING

## 0 – 16 Bar

## Type EUP3SS



#### PRESSURE

Ø Port BSP	Function	Ø Orifice (mm)	Flow Kv Ltr/Min	Pressure (bar) ΔP		Actuator (mm)	Part Number
				Min	Max		
1/2	Double Acting	20	167	0	16	50	EUP315SS + option
3/4	Double Acting	20	167	0	16	50	EUP320SS + option
1	Double Acting	25	253	0	16	50	EUP325SS + option

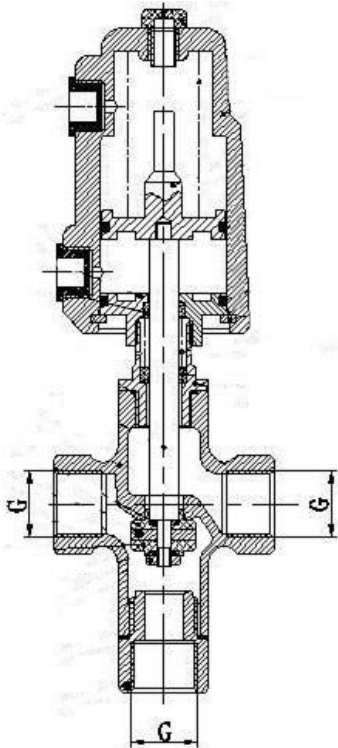
#### OPTIONS

Visual Position Indicator  
 NPT Thread  
 Aluminium Alloy Actuator  
 Modulating, Position Switch, Flanged and other custom made options available upon request

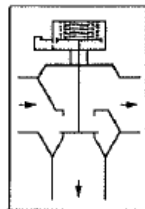
#### CONSTRUCTION

Body, Tube, Piston and internal parts : AISI316 (CF8M) stainless steel  
 Actuator : AISI304 stainless steel (Rotation 360°)  
 Seals and gaskets : Valve - PTFE Actuator - FKM

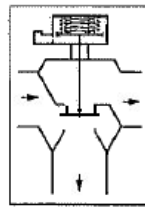
#### OVERALL DIMENSIONS



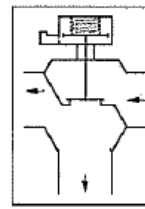
Port BSP	L	H	D	DN
	1/2	74	230	60
3/4	74	230	60	3/4
1	94	250	60	1



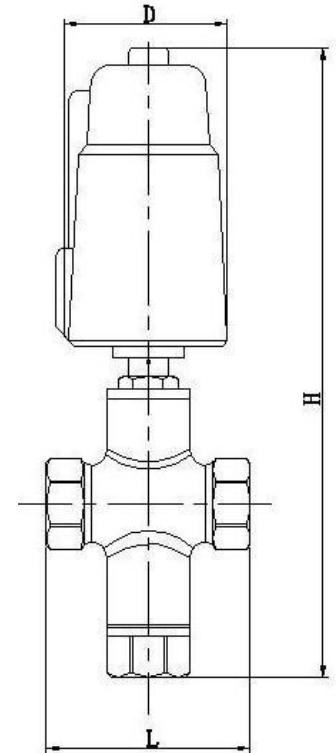
Option 1



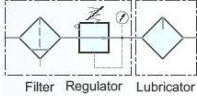
Option 2



Option 3



Media: air or water\*  
 Inlet Pressure: 30 bar max  
 Operating Pressure range: 0.5 – 20 Bar  
 Media temperature: -10°C - +60° C  
 Ambient temperature: -10° to +60° C  
 Mounting: any position  
 Weight: 2660g



# Filter Regulator & Lubricator

## 316 Stainless Steel

### S-FRL



#### PRESSURE

Ø Port BSP	Cv L/min @ 6Bar	Pressure (bar) Air - Water		Combination	Part Number
		Inlet	Outlet		
1/4	1850	0.5 - 30	0.5 - 20	FR + L	FRL-1/4-SS
	1850	0.5 - 30	0.5 - 20	Filter Regulator	FR-1/4-SS
	1850	0.5 - 30	0.5 - 20	Regulator	REG-1/4-SS
	1850	0.5 - 30	0.5 - 20	Lubricator	LUB-1/4-SS
	1850	0.5 - 30	0.5 - 20	Filter	FIL-1/4-SS

#### OPTIONS

5 um Filter element 316 stainless steel  
 Semi-Automatic drain (S) below 0.5 bar  
 Pressure Gauge (Plug and bracket)  
 Fully Automatic Drain (D)  
 5um Sintered Bronze Element or 40 um Filter element 316 stainless steel  
 NPT Thread  
 For liquid (water) Media please advise

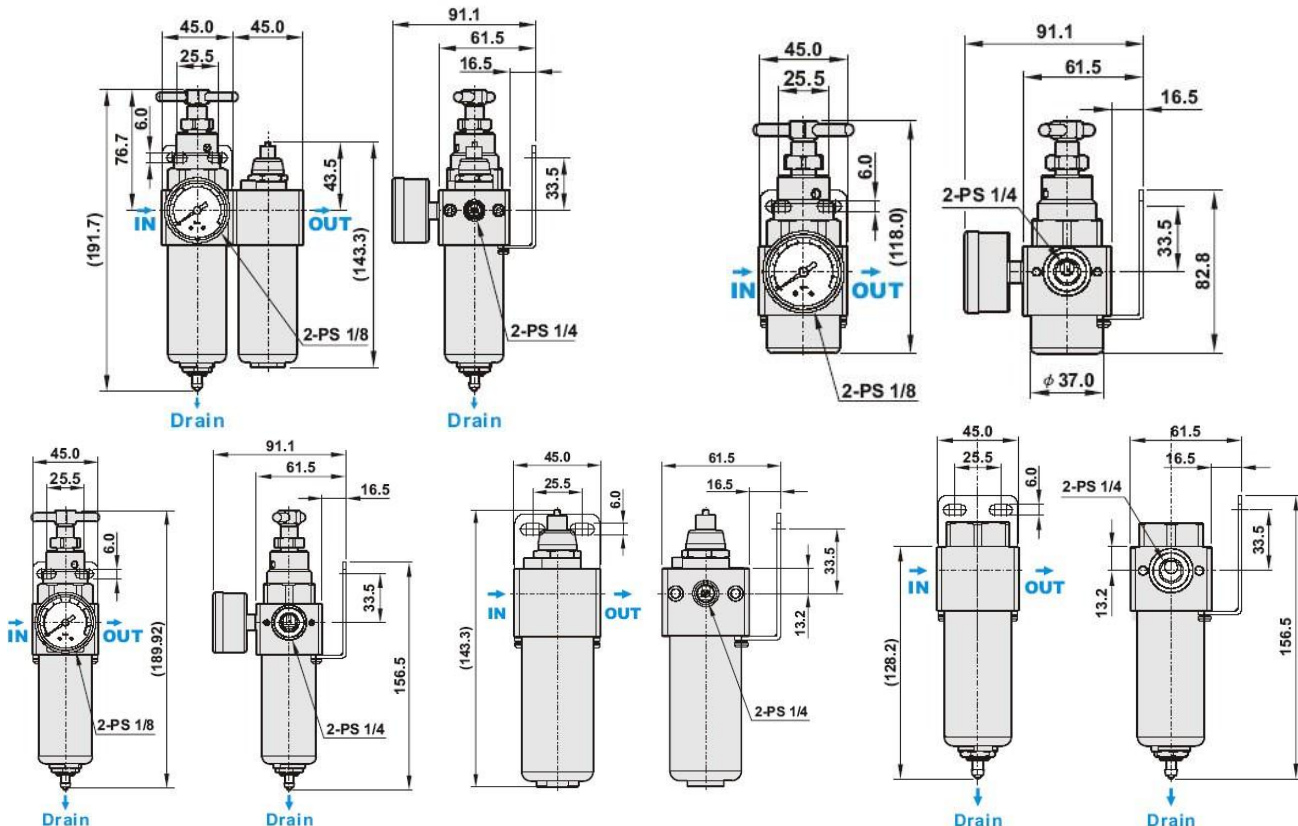
#### CONSTRUCTION

Body: 316 stainless steel	Filter elements: 5 micron 316 stainless steel
Filter Bowl: 316 stainless steel (105cc)	Mounting bracket: 316 stainless steel
Regulator Bowl: 316 stainless steel (125cc)	Pressure gauge: cover 304 stainless steel / thread 316 stainless steel
Pressure regulator: Piston Type 316 stainless steel	

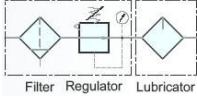
#### FEATURES

Lubricating Oil Recommend ISO-VG32 Perfect Lubricator mist oil delivery system	Pressurised Lubricator oil refill Secure Oil delivery adjustment
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#### OVERALL DIMENSIONS



Media: air or water\*  
 Inlet Pressure : 60 bar max  
 Operating Pressure range: 0.5 – 30 Bar  
 Media temperature: -10°C - +70° C  
 Ambient temperature: -10° to +70° C  
 Mounting: any position  
 Weight: 3870g



## Filter Regulator & Lubricator

### 316 Stainless Steel

### ¼ 3/8 & ½ Port

## M-FRL



### PRESSURE

Ø Port BSP	Cv L/min @ 6Bar	Pressure (bar) Air - Water		Combination	Part Number
		Inlet	Outlet		
3/8	2200	0.5-60	0.5 - 30	FR + L	MFRL-3/8-SS
1/2	2500	0.5-60	0.5 - 30	FR + L	MFRL-1/2-SS
3/8	2200	0.5-60	0.5 - 30	Filter Regulator	MFR-3/8-SS
1/2	2500	0.5-60	0.5 - 30	Filter Regulator	MFR-1/2-SS
3/8	2200	0.5-60	0.5 - 30	Regulator	MREG-3/8-SS
1/2	2500	0.5-60	0.5 - 30	Regulator	MREG-1/2-SS
3/8	2200	0.5-60	0.5 - 30	Lubricator	MLUB-3/8-SS
1/2	2500	0.5-60	0.5 - 30	Lubricator	MLUB-1/2-SS

### OPTIONS

5 um Filter element 316 stainless steel  
 Semi-Automatic drain (S) below 0.5 bar  
 Pressure Gauge (Plug and bracket)  
 Fully Automatic Drain (D)  
 5um Sintered Bronze Element or 40 um Filter element 316 stainless steel  
 ¼ BSP OR NPT Thread  
 \*For use with Water or Pure Water please advise

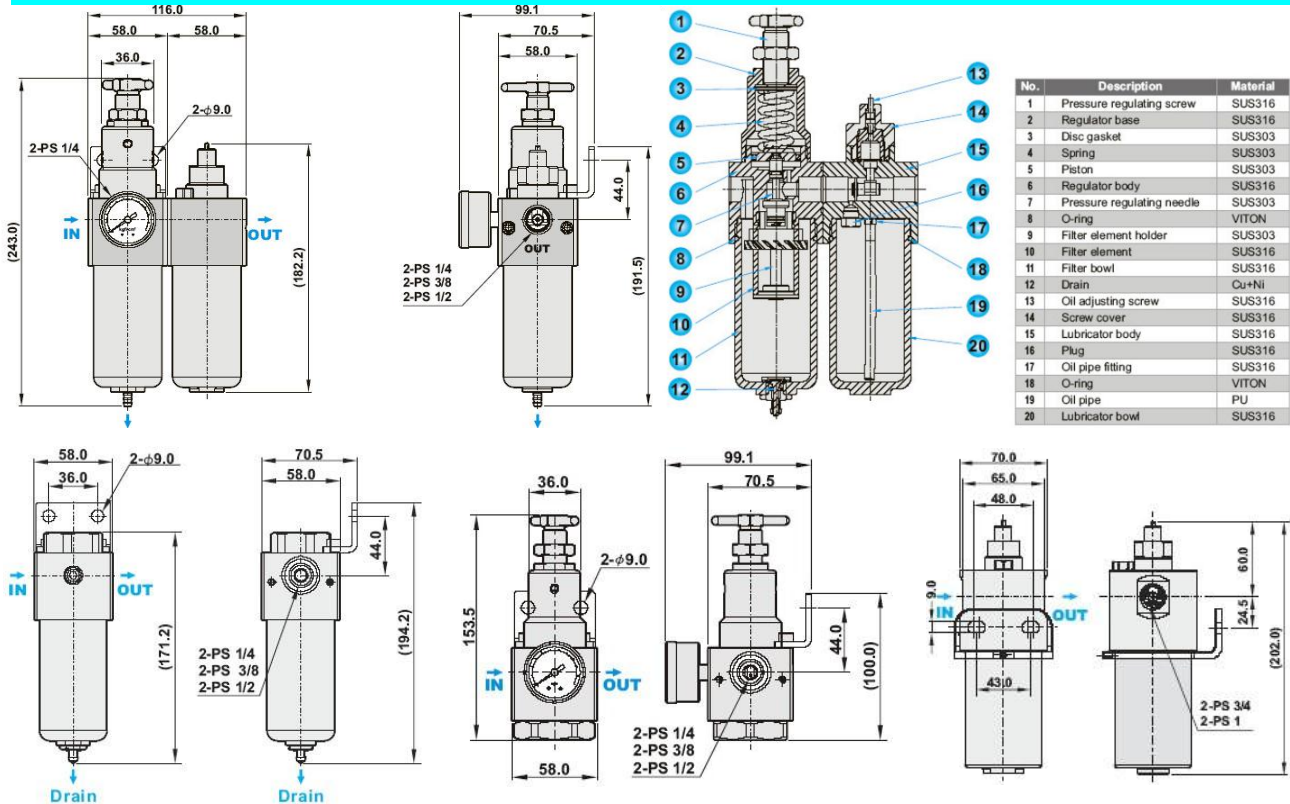
### CONSTRUCTION

Body: 316 stainless steel	Filter elements: 5 micron 316 stainless steel
Filter Bowl: 316 stainless steel (110cc)	Mounting bracket: 316 stainless steel
Regulator Bowl: 316 stainless steel (130cc)	Pressure gauge: cover 304 stainless steel / thread 316 stainless steel
Pressure regulator: Piston Type 316 stainless steel	

### FEATURES

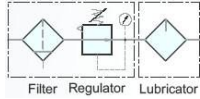
Lubricating Oil Recommend ISO-VG32 Perfect Lubricator mist oil delivery system	Pressurised Lubricator oil refill Secure Oil delivery adjustment
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### OVERALL DIMENSIONS





Media: air or water\*  
 Inlet Pressure : 60 bar max  
 Operating Pressure range: 0.5 – 30 Bar  
 Media temperature: -10°C - +70° C  
 Ambient temperature: -10° to +70° C  
 Mounting: any position  
 Weight: 5500g



## Filter Regulator & Lubricator

316 Stainless Steel

3/4 & 1" Port

L-FRL



### PRESSURE

Ø Port BSP	Cv L/min @ 6Bar	Pressure (bar) Air - Water		Combination	Part Number
		Inlet	Outlet		
3/4	7250	0.5-60	0.5 - 30	FR + L	LFR/L-3/4-SS
1	7600	0.5-60	0.5 - 30	FR + L	LFR/L-1-SS
3/4	7250	0.5-60	0.5 - 30	Filter Regulator	LFR-3/4-SS
1	7600	0.5-60	0.5 - 30	Filter Regulator	LFR-1-SS
3/4	7250	0.5-60	0.5 - 30	Lubricator	LLUB-3/4-SS
1	7600	0.5-60	0.5 - 30	Lubricator	LLUB-1/2-SS

### OPTIONS

5 um Filter element 316 stainless steel  
 Manual drain (S) below 0.5 bar  
 Pressure Gauge (Plug and bracket)  
 Fully Automatic Drain (D)  
 5um Sintered Bronze Element or 40 um Filter element 316 stainless steel  
 NPT Thread  
 \*For use with Water or Pure Water please advise

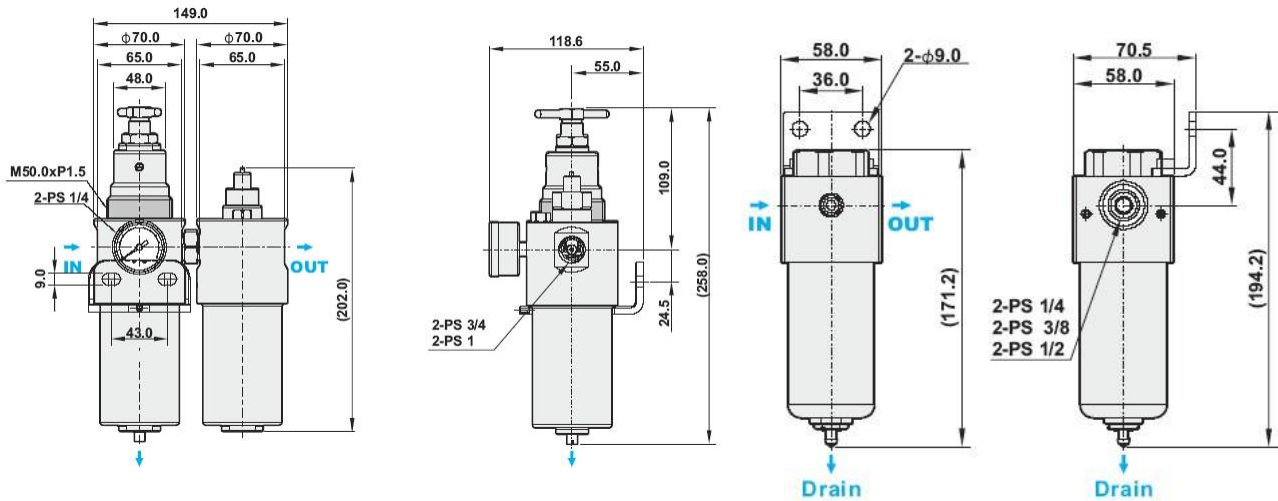
### CONSTRUCTION

Body: 316 stainless steel	Filter elements: 5 micron 316 stainless steel
Filter Bowl: 316 stainless steel (200cc)	Mounting bracket: 316 stainless steel
Regulator Bowl: 316 stainless steel (220cc)	Pressure gauge: cover 304 stainless steel / thread 316 stainless steel
Pressure regulator: Piston Type 316 stainless steel	

### FEATURES

Lubricating Oil Recommend ISO-VG32 Perfect Lubricator mist oil delivery system	Pressurised Lubricator oil refill Secure Oil delivery adjustment
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### OVERALL DIMENSIONS



Media: air – fluid - oil  
 Pressure: In 10 Bar – Out 0.02 to 0.2 bar  
 Media temperature: -15° to +80° C max  
 Ambient temperature: +80° C max  
 Media viscosity: 40 centistokes max  
 Mounting: any position

# Pressure Reducing Valve

## 1/2 – 2 DN15 – DN50

### STAINLESS STEEL

### 2 WAY SERVO ASSISTED

### 10 – 0.02 Bar

## TYPE PRMT + PRMF



#### PRESSURE

Ø Port BSP	Pressure Rating (bar) ΔP			Seals	Part Number
	Inlet Max	Outlet Min Bar	Outlet Max Bar		
1/2	10	0.02	0.2	NBR + FKM	PRMT15S
3/4	10	0.02	0.2	NBR + FKM	PRMT20S
1	10	0.02	0.2	NBR + FKM	PRMT25S
1 1/2	10	0.02	0.2	NBR + FKM	PRMT40S
2	10	0.02	0.2	NBR + FKM	PRMT50S
Ø Port PN16					
1/2	10	0.02	0.2	NBR + FKM	PRMF15S
3/4	10	0.02	0.2	NBR + FKM	PRMF20S
1	10	0.02	0.2	NBR + FKM	PRMF25S
1 1/2	10	0.02	0.2	NBR + FKM	PRMF40S
2	10	0.02	0.2	NBR + FKM	PRMF50S

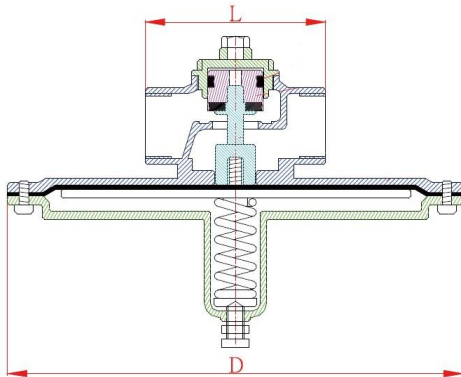
#### OPTIONS

Pressure Gauge (316 Stainless steel)  
 Other flange options  
 Other custom made options available upon request

#### CONSTRUCTION

Body, Piston & shaft: 316 stainless steel  
 Seals: NBR + FKM  
 Spring: steel  
 Fixing bolts and adjusting stem: 304 stainless steel  
 Test Pressure: 16 Bar

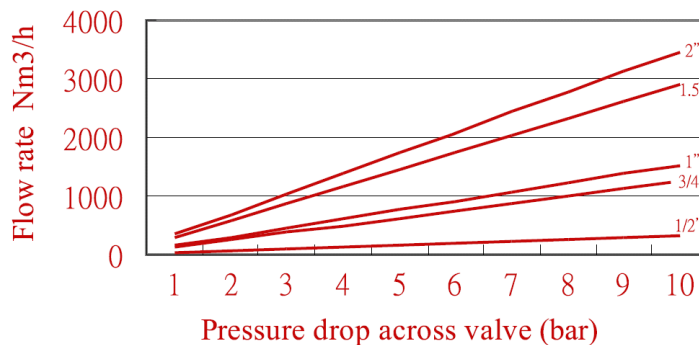
#### OVERALL DIMENSIONS



Part No:	Port	L mm	D
PRMT15	1/2 BSP	70	*
PRMT20	3/4 BSP	85	*
PRMT25	1 BSP	90	*
PRMT40	1 1/2 BSP	115	*
PRMT50	2 BSP	120	*

\* Diameter D depend on outlet pressure setting

Flow Chart for Air at 50°C



Media: air – fluid - oil  
 Pressure: In 10 Bar – Out 0.2 to 1.5 bar  
 Media temperature: 80°C max  
 Ambient temperature: +80°C max  
 Media viscosity: 40 centistokes max  
 Mounting: any position

# Pressure Reducing Valve

## 1/2 – 2 DN15 – DN50

### STAINLESS STEEL

### 2 WAY SERVO ASSISTED

### 10 – 0.2 Bar

## TYPE PRLT + PRLF



#### PRESSURE

Ø Port BSP	Flow Kv Ltr/min	Pressure Rating (bar) ΔP			Seals	Part Number
		Inlet Max	Outlet Min Bar	Outlet Max Bar		
1/2	40	10	0.2	1.5	NBR + FKM	PRLT15S
3/4	150	10	0.2	1.5	NBR + FKM	PRLT20S
1	183	10	0.2	1.5	NBR + FKM	PRLT25S
1 1/2	350	10	0.2	1.5	NBR + FKM	PRLT40S
2	417	10	0.2	1.5	NBR + FKM	PRLT50S
Ø Port PN16						
1/2	40	10	0.2	1.5	NBR + FKM	PRLF15S
3/4	150	10	0.2	1.5	NBR + FKM	PRLF20S
1	183	10	0.2	1.5	NBR + FKM	PRLF25S
1 1/2	350	10	0.2	1.5	NBR + FKM	PRLF40S
2	417	10	0.2	1.5	NBR + FKM	PRLF50S

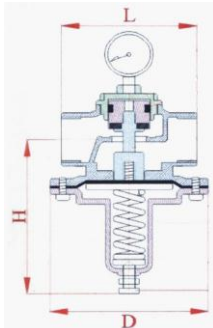
#### OPTIONS

Pressure Gauge (316 Stainless steel)  
 Other flange options  
 Other custom made options available upon request

#### CONSTRUCTION

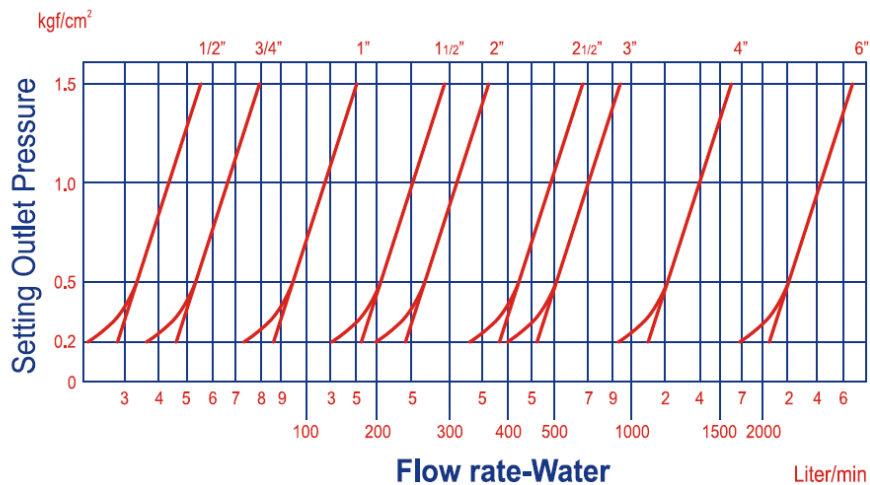
Body, Piston & shaft: 316 stainless steel  
 Seals: NBR + FKM  
 Spring: steel  
 Fixing bolts and adjusting stem: 304 stainless steel

#### OVERALL DIMENSIONS



Part No:	Port	H mm	L mm	Kg
PRLT15	1/2 BSP	110	70	1.3
PRLT20	3/4 BSP	125	85	1.5
PRLT25	1 BSP	125	90	1.6
PRLT40	1 1/2 BSP	155	115	3
PRLT50	2 BSP	155	120	4
PRLF15	1/2 PN16	110	150	2.5
PRLF20	3/4 PN16	125	150	3.5
PRLF25	1 PN16	125	150	5.6
PRLF40	1 1/2 PN16	155	190	8.7
PRLF50	2 PN16	155	190	13.5

### Flow Chart of Direct-activated Pressure Reducing Valve





Media: air – fluid - oil  
 Pressure: Inlet 25 Bar Max 1 to 13 bar  
 Media temperature: 200°C max  
 Ambient temperature: +80°C max  
 Media viscosity: 40 centistokes max  
 Mounting: any position

# Pressure Reducing Valve

## 1/2 - 2

### STAINLESS STEEL

### 2 WAY DIRECT ACTING

### 25 – 1 Bar

## PRT



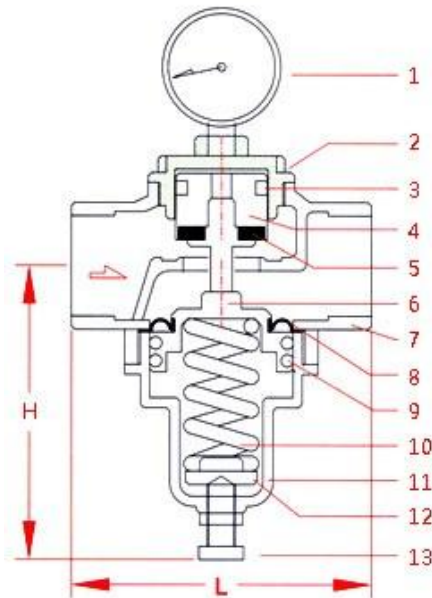
#### PRESSURE

Ø Port BSP	Flow	Pressure Rating (bar) ΔP	Part Number
	Kv Ltr/min		
1/2	40	Inlet 25 Bar Max Outlet Adjustment Range Options (1 – 6 Bar) (4 – 10 Bar) (8 – 13 Bar)	PRT15S + Pressure Range
3/4	150		PRT20S + Pressure Range
1	183		PRT25S + Pressure Range
1 1/2	350		PRT40S + Pressure Range
2	417		PRT50S + Pressure Range

#### OPTIONS

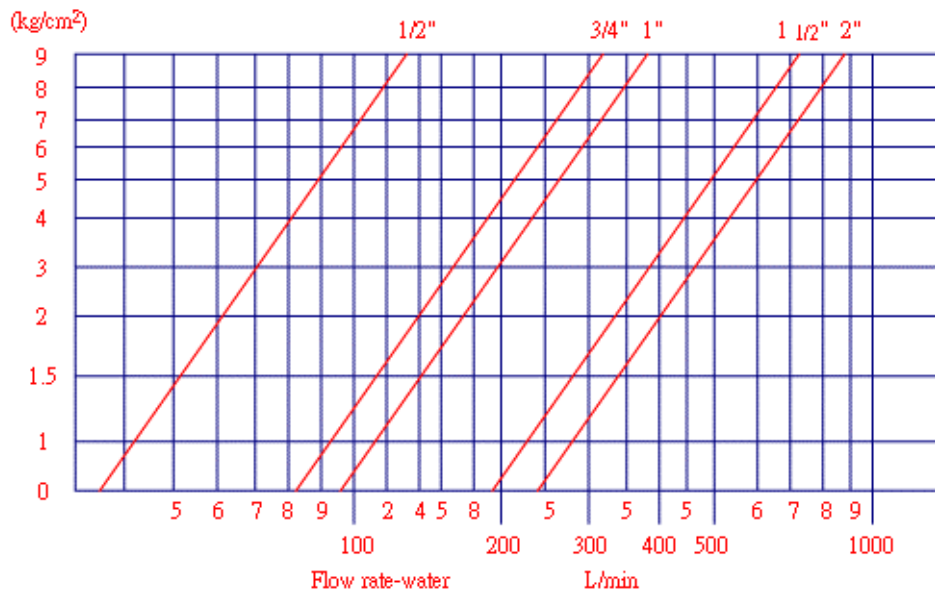
Pressure Gauge Other flange options Other custom made options available upon request	1
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#### OVERALL DIMENSIONS



No	Part	Material
1	Gauge	Upon Req
2	Cover	316 St St
3	O Ring	FKM
4	Piston	316 St St
5	Seal	FKM
6	Shaft	316 St St
7	Body	316 St St
8	Diaphragm	FKM
9	O Ring	FKM
10	Spring	Steel
11	Cover	316 St St
12	Washer	Brass
13	Stem	316 St St

Model	Port	H (mm)	L (mm)
PRT15S	1/2	80	70
PRT20S	3/4	105	85
PRT25S	1	105	92
PRT40S	1 1/2	130	115
PRT50S	2	130	120



Media: air – fluid - oil  
 Pressure: Inlet 25 Bar Max 1 to 13 bar  
 Media temperature: 200°C max  
 Ambient temperature: +80°C max  
 Media viscosity: 40 centistokes max  
 Mounting: any position

# Pressure Reducing Valve

## DN50 –DN150

### STAINLESS STEEL

### 2 WAY DIRECT ACTING

### 25 – 1 Bar

## PRF



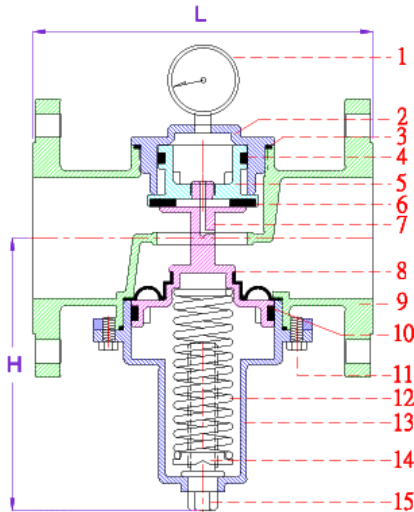
#### PRESSURE

Ø Port PN16	Flow	Pressure Rating Bar ΔP	Part Number
	Kv Ltr/min		
1/2	40	Inlet 25 Bar Max  Outlet Adjustment Range Options (1 – 6 Bar) (4 – 10 Bar) (8 – 13 Bar)	PRF15S + Pressure Range
3/4	150		PRF20S + Pressure Range
1	183		PRF25S + Pressure Range
1 1/4	350		PRF32S + Pressure Range
1 1/2	350		PRF40S + Pressure Range
2	417		PRF50S + Pressure Range
2 1/2	1250		PRF65S + Pressure Range
3	1333		PRF80S + Pressure Range
4	2000		PRF100S + Pressure Range
6	4167		PRF150S + Pressure Range

#### OPTIONS

Pressure Gauge  
 Other flange options  
 Other custom made options available upon request

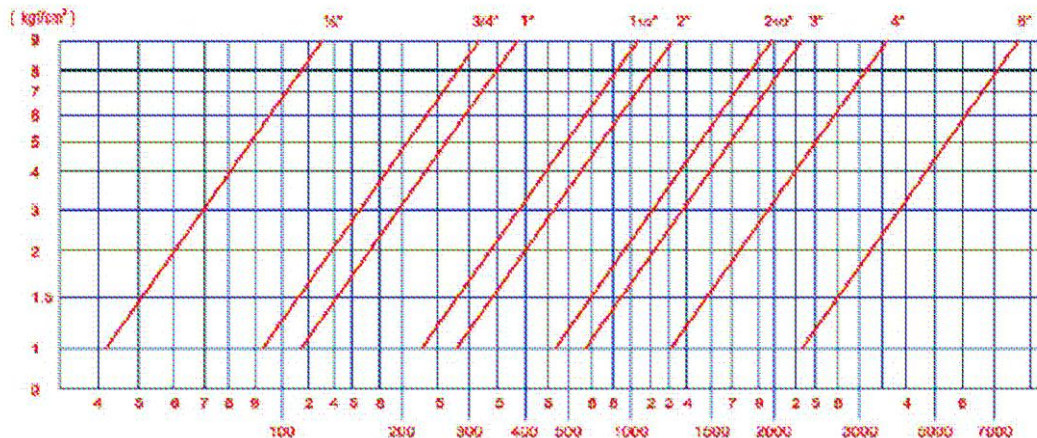
#### OVERALL DIMENSIONS



No	Part	Material
1	Gauge	St St
2	Cover	316 St St
3	Washer	NBR/FKM
4	U Ring	NBR / FKM
5	Piston	316 St St
6	Seal	NBR / FKM / PTFE
7	Shaft	316 St St
8	Diaphragm	NBR / FKM
9	Body	316 St St
10	UH Ring	FKM
11	Bolt	304 St St
12	Spring	Steel
13	Cover	316 St St
14	Washer	Brass
15	Stem	304 St St

Model	Port	H (mm)	L (mm)
PRF15S	1/2	85	150
PRF20S	3/4	105	150
PRF25S	1	105	150
PRF40S	1 1/2	130	190
PRF50S	2	130	190
PRF65S	2 1/2	185	210
PRF80S	3	185	225
PRF100S	4	230	250
PRF150S	6	290	310

Setting Outlet Pressure



Flow rate-Water

Ltr/min

Media: water  
 Pressure range: 0.7 to 12 bar max  
 Media temperature: -15°C +200°C max  
 Ambient temperature: -15° to +60°C  
 Media viscosity: 50 centistokes max  
 Mounting: any position  
 Closing time: 3 – 5 seconds

# Pressure Reducing Valve

## DN50 – DN300

### Ductile Iron - Bronze - Stainless

## 2 WAY SERVO ASSISTED

### 0.3 – 16 Bar

# PRV50300



### PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow	Part Number ΔP Pressure Adjusting Range (0.7 – 7Bar) or (4 – 12Bar)			
		Kv Ltr/ min				
2	50	1250	PRV50 + ΔP + material			
2 1/2	65	1750	PRV65 + ΔP + material			
3	80	2300	PRV80 + ΔP + material			
4	100	4300	PRV100 + ΔP + material			
5	125	6500	PRV125 + ΔP + material			
6	150	9167	PRV150 + ΔP + material			
8	200	16667	PRV200 + ΔP + material			
10	250	26667	PRV250 + ΔP + material			
12	300	36667	PRV300 + ΔP + material			

### OPTIONS

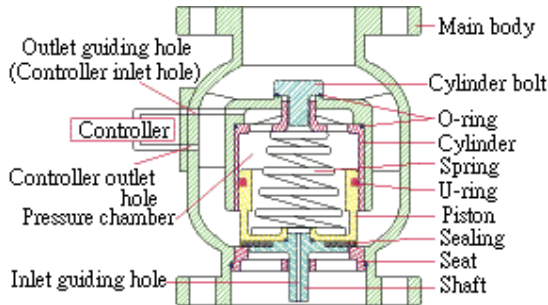
Pressure Regulator  
 Pressure gauge (Displays outlet Pressure)  
 Pressure adjusting range 0.7 to 7 Bar or 4 to 12 Bar  
 316 Stainless steel body (AISI304 price plus addition)  
 Other flange options  
 Other custom made pressure and media options available upon request

### REPAIR KIT

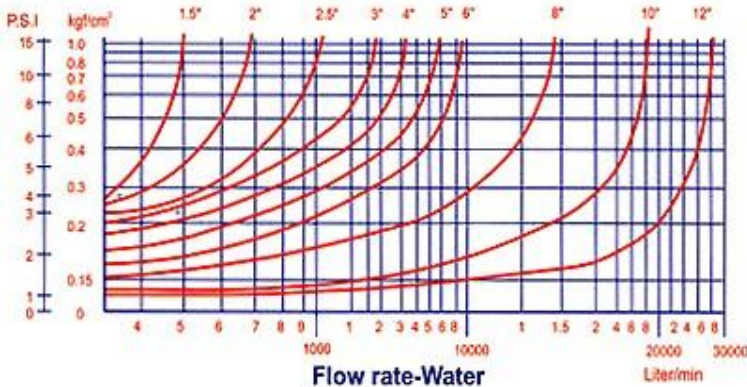
Piston U Ring	SP + Valve Part Number + U RING
Pressure Regulator	SP + BFR + pressure range

### OVERALL DIMENSIONS

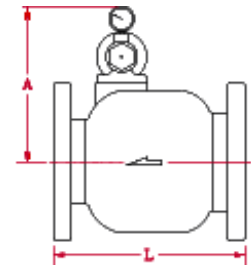
Pressure reducing valve will maintain safe water outlet pressure regardless of inlet pressure to prevent pipeline and equipment damage caused by accidental over or under pressure.



	Materials + Pressure Specifications		
Main body	Ductile	Bronze	St. St.
Cylinder bolt	Brass	Brass	St. St.
O-Ring	NBR	NBR	NBR or FKM
Cylinder	Bronze	Bronze	St. St.
Spring	St. St.	St. St.	St. St.
U- ring	NBR	NBR	Request
Piston	Bronze	Bronze	St. St.
Sealing	NBR	NBR	NBR or FKM
Seat	Bronze	Bronze	St. St.
Shaft	Bronze	Bronze	St. St.
Controller	Brass	Brass	St. St.
Working	20 Bar	12 Bar	22 Bar
Test	32 Bar	21 Bar	35 Bar



Kg	Dimensions	
	L	A
12	190	180
15	210	185
18	225	200
24	250	222
32	280	235
44	310	260
87	420	300
152	470	335
202	530	370



Media: air – fluid – Steam – Acid - Alkali  
 Pressure: Inlet 25 Bar Max 1 to 13 bar  
 Media temperature: 210°C max  
 Ambient temperature: +80°C max  
 Media viscosity: 40 centistokes max  
 Mounting: any position

# Pressure Sustaining Valve

## 1/2 - 2

### STAINLESS STEEL

### 2 WAY DIRECT ACTING

### 1 – 25 Bar

## PST



#### PRESSURE

Ø Port BSP	Flow	Pressure Rating (bar) ΔP	Part Number
	Kv Ltr/min		
1/2	40	Inlet 25 Bar Max Outlet Adjustment Range Options (1 – 6 Bar) (4 – 10 Bar) (8 – 13 Bar)	PST15S + Pressure Range
3/4	150		PST20S + Pressure Range
1	183		PST25S + Pressure Range
1 1/2	350		PST40S + Pressure Range
2	417		PST50S + Pressure Range

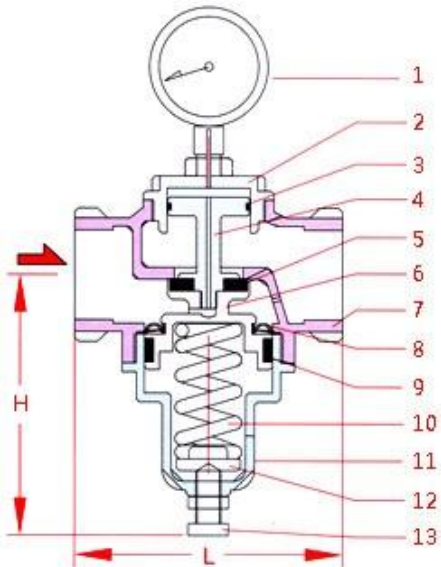
#### OPTIONS

Pressure Gauge  
 Other flange options  
 Other custom made options available upon request

#### CONSTRUCTION

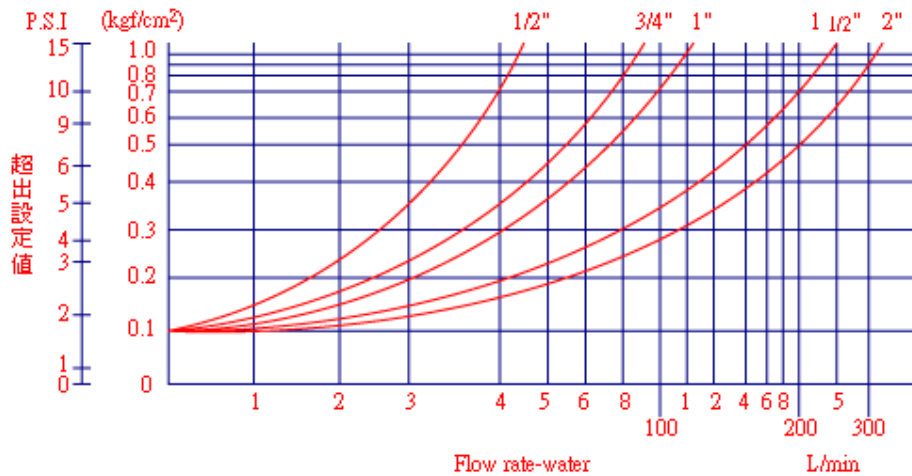
See below

#### OVERALL DIMENSIONS



No	Part	Material
1	Gauge	St St
2	Cover	316 St St
3	O Ring	NBR/FKM
4	Piston	316 St St
5	Seal	FKM
6	Shaft	316 St St
7	Body	316 St St
8	Diaphragm	FKM
9	O Ring	FKM
10	Spring	Steel
11	Cover	316 St St
12	Washer	Brass
13	Stem	304 St St

Model	Port	H (mm)	L (mm)
PST15S	1/2	80	70
PST20S	3/4	105	85
PST25S	1	105	92
PST40S	1 1/2	130	115
PST50S	2	130	120





Media: air – fluid – Steam – Acid - Alkali  
 Pressure: Inlet 25 Bar Max 1 to 13 bar  
 Media temperature: 210°C max  
 Ambient temperature: +80°C max  
 Media viscosity: 40 centistokes max  
 Mounting: any position

# Pressure Sustaining Valve

## DN15 – DN150

### STAINLESS STEEL

### 2 WAY DIRECT ACTING

### 1 – 25 Bar

## TYPE PSF



#### PRESSURE

Ø Port PN16	Flow	Pressure Rating Bar ΔP	Part Number
	Kv Ltr/min		
1/2	40	Inlet 25 Bar Max  Outlet Adjustment Range Options (1 – 6 Bar) (4 – 10 Bar) (8 – 13 Bar)	PSF15S + Pressure Range
3/4	150		PSF20S + Pressure Range
1	183		PSF25S + Pressure Range
1 1/4	350		PSF32S + Pressure Range
1 1/2	350		PSF40S + Pressure Range
2	417		PSF50S + Pressure Range
2 1/2	1250		PSF65S + Pressure Range
3	1333		PSF80S + Pressure Range
4	2000		PSF100S + Pressure Range
6	4167		PSF150S + Pressure Range

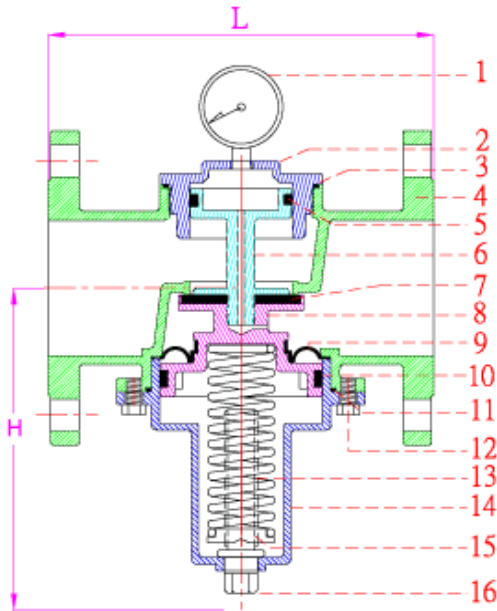
#### OPTIONS

Pressure Gauge  
 Other flange options  
 Other custom made options available upon request

#### CONSTRUCTION

See below

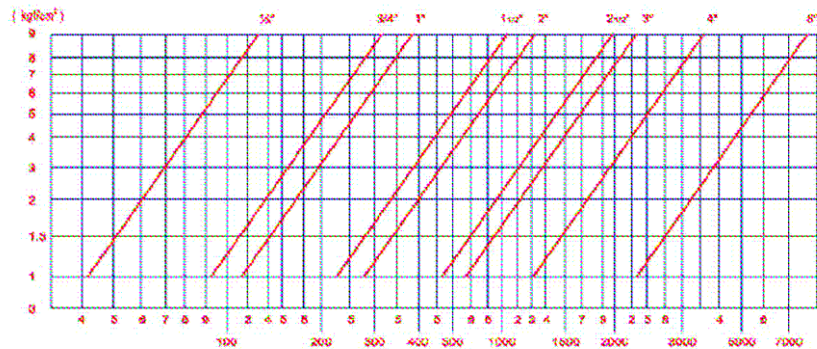
#### OVERALL DIMENSIONS



No	Part	Material
1	Gauge	St St
2	Cover	316 St St
3	Washer	NBR/FKM
4	Body	316 St St
5	U Ring	NBR FKM
6	Shaft	316 St St
7	Seal	NBR FKM PTFE
8	Seat	316 St St
9	Diaphragm	NBR FKM
10	UH Ring	NBR FKM
11	Washer	NBR FKM
12	Bolt	304 St St
13	Spring	Steel
14	Cover	316 St St
15	Washer	Brass
16	Stem	304 St St

Model	Port	H (mm)	L (mm)
PSF15S	1/2	85	150
PSF20S	3/4	105	150
PSF25S	1	105	150
PSF40S	1 1/2	130	190
PSF50S	2	130	190
PSF65S	2 1/2	185	210
RFF80S	3	185	225
RFF100S	4	230	250
RFF150S	6	290	310

Setting Outlet Pressure



Flow rate-Water

Litres/min



Media: water  
 Pressure range: 0.2 to 10 bar max  
 Media temperature: -15°C +200°C max  
 Ambient temperature: -15° to +60° C  
 Media viscosity: 50 centistokes max  
 Mounting: any position

# Pressure Sustaining Valve

## DN50 – DN300

### Ductile Iron – Bronze –Stainless

## 2 WAY SERVO ASSISTED

### 0.3 – 16 Bar

# PSS



### PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow	Part Number ΔP Pressure Adjusting Range (0.2 – 4Bar) or (3 – 10Bar)			
		Kv Ltr/ min				
2	50	1250	PSS50 + ΔP + material			
2 1/2	65	1750	PSS65 + ΔP + material			
3	80	2300	PSS80 + ΔP + material			
4	100	4300	PSS100 + ΔP + material			
5	125	6500	PSS125 + ΔP + material			
6	150	9167	PSS150 + ΔP + material			
8	200	16667	PSS200 + ΔP + material			
10	250	26667	PSS250 + ΔP + material			
12	300	36667	PSS300 + ΔP + material			

### OPTIONS

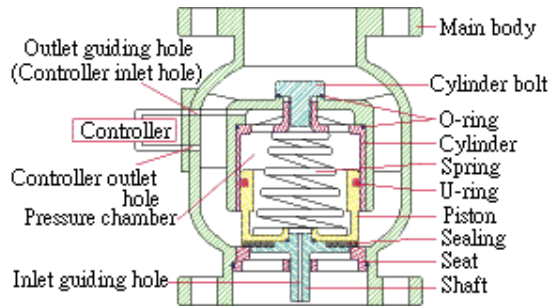
Pressure Regulator  
 Pressure gauge (Displays inlet Pressure)  
 Pressure adjusting range 0.7 to Bar or 4 to 12 Bar  
 316 Stainless steel body use 304 price and add  
 Other flange options  
 Other custom made pressure and media options available upon request

### REPAIR KIT

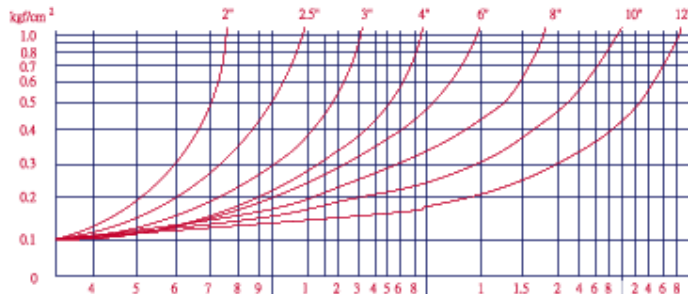
Piston U Ring	SP – Valve Part Number - U RING
Pressure Regulator	BFS + pressure range

### OVERALL DIMENSIONS

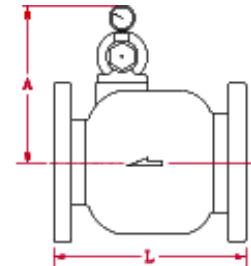
Pressure sustaining valve maintains preset backpressure regardless of downstream demand.



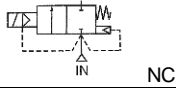
	Materials + Pressure Specifications		
Main body	Ductile	Bronze	St. St.
Cylinder bolt	Brass	Brass	St. St.
O-Ring	NBR	NBR	NBR or FKM
Cylinder	Bronze	Bronze	St. St.
Spring	St. St.	St. St.	St. St.
U- ring	NBR	NBR	Request
Piston	Bronze	Bronze	St. St.
Sealing	NBR	NBR	NBR or FKM
Seat	Bronze	Bronze	St. St.
Shaft	Bronze	Bronze	St. St.
Controller	Brass	Brass	St. St.
Working	20 Bar	12 Bar	22 Bar
Test	32 Bar	21 Bar	35 Bar



Kg	Dimensions (mm)	
	L	A
12	190	180
15	210	185
18	225	200
24	250	222
32	280	235
44	310	260
87	420	300
152	470	335
202	530	370



Media: Air, Water, Steam or oil  
 Pressure range: 0.3 to 16 bar max  
 Media temperature: -15°C +200°C  
 Ambient temperature: 0° to +60°C  
 Media viscosity: 50 centistokes max  
 Cycle life: 500,000 cycles  
 Opening / Closing time: 3-5 Sec



# 2/2 Stainless Steel

DN50 – DN300  
 NORMALLY CLOSED  
 2 WAY SERVO ASSISTED  
 0.3 – 16 Bar  
 NC50300-S



### PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow Kv Ltr/Min	Pressure Rating (Bar) ΔP		Part Number
			Min	Max	
2	50	1250	0.3	16	NC50S + FKM + voltage
2 1/2	65	1750	0.3	16	NC65S + FKM + voltage
3	80	2300	0.3	16	NC80S + FKM + voltage
4	100	4300	0.3	16	NC100S + FKM + voltage
5	125	6500	0.3	16	NC125S + FKM + voltage
6	150	9100	0.3	16	NC150S + FKM + voltage
8	200	16700	0.3	16	NC200S + FKM + voltage
10	250	26500	0.3	16	NC250S + FKM + voltage
12	300	36500	0.3	16	NC300S + FKM + voltage

### OPTIONS

IP65 Coil & Connector PG 11 – DIN 43650A

Manual Over ride lever valve

Special 200°C steam rated controller with M17 coil + solenoid

Explosion Proof coil 22003EX Enclosure ATEX II 2 G/D EexmIIT4 IP65

316 Stainless steel casting (BFE-SS)

Other custom made options available upon request

Voltage (-10% +10%) Continuous Duty 100%	Coil	Power Consumption		Insulation Class	Enclosure	Electrical Connection
		Inrush	Holding			
~ 24 – 110 – 230 (50 or 60 Hz)	M16	56 VA	24 VA	F 155°C	IP65 with connector	3 spades DIN 43650 DIN40050 VDE0110
= 12 – 24		16 Watts				

### CONSTRUCTION

Body & Piston: 304 Stainless steel (100% Pressure tested to 35 bar) Seat + Shaft: Stainless steel

Bolts: Stainless Steel Spring: Stainless steel Ports: Flanged PN16

RF Seals and gaskets: FKM

Control pipe work circuit + fittings: 304 stainless steel

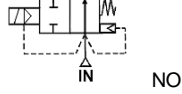
### REPAIR KIT

Piston U Ring	SP + Valve Part Number + U RING
External Control pipework	BFESS-NC + seal –PIPEWORK + voltage

### OVERALL DIMENSIONS

Port	L	A	Kg
2"	190	187	12
2 1/2"	210	192	15
3"	225	210	18
4"	250	222	24
5"	280	235	32
6"	310	260	44
8"	420	300	87
10"	470	335	152
12"	530	370	202

Media: Air, Water or oil  
 Pressure range: 0.3 to 16 bar max  
 Media temperature: -15°C +100°C  
 Ambient temperature: 0° to +60°C  
 Media viscosity: 50 centistokes max  
 Cycle life: 500,000 cycles  
 Opening / Closing time: 3-5 Sec



# 2/2 Stainless Steel

## DN50 – DN300

### NORMALLY OPEN

### 2 WAY SERVO ASSISTED

### 0.3 – 16 Bar

## NO50300S



#### PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow Kv Ltr/Min	Pressure Rating (Bar) ΔP		Part Number
			Min	Max	
2	50	1250	0.3	16	NO50S + FKM + voltage
2 1/2	65	1750	0.3	16	NO65S + FKM + voltage
3	80	2300	0.3	16	NO80S + FKM + voltage
4	100	4300	0.3	16	NO100S + FKM + voltage
5	125	6500	0.3	16	NO125S + FKM + voltage
6	150	9100	0.3	16	NO150S + FKM + voltage
8	200	16700	0.3	16	NO200S + FKM + voltage
10	250	26500	0.3	16	NO250S + FKM + voltage
12	300	36500	0.3	16	NO300S + FKM + voltage

#### OPTIONS

IP65 Coil & Connector PG 11 – DIN 43650A

Manual Over ride lever valve

Explosion Proof coil 22003EX Enclosure ATEX II 2 G/D ExmIIT4 IP65

316 Stainless steel casting (BFE-SS)

Other custom made options available upon request

Voltage (-10% +10%) Continuous Duty 100%		Coil	Power Consumption		Insulation Class	Enclosure	Electrical Connections
~	24 – 110 – 230 (50 or 60 Hz)		Inrush	Holding			
=	12 – 24	M17	35 VA	26 VA	F 155°C	IP65 with connector	3 spades DIN 43650 DIN40050 VDE0110
		19 Watts					

#### CONSTRUCTION

Body & Piston: 304 Stainless steel (100% Pressure tested to 35 bar)

Seat + Shaft: Stainless steel

Bolts: Stainless Steel

Spring: Stainless steel

Ports: Flanged PN16 RF

Seals and gaskets: FKM

Control pipe work circuit + fittings: 304 stainless steel

#### REPAIR KIT

Piston U Ring	SP + Valve Part Number + U RING
External control pipework + solenoid	NO50300SS + seal – PIPEWORK + voltage

#### OVERALL DIMENSIONS

Port	L	A	Kg
2"	190	187	12
2 1/2"	210	192	15
3"	225	210	18
4"	250	222	24
5"	280	235	32
6"	310	260	44
8"	420	300	87
10"	470	335	152
12"	530	370	202

Media: air – water – steam – light oil  
 Pressure range: 0.3 to 16 bar max  
 Media temperature: -15°C +200°C max  
 Ambient temperature: -15° to +60° C  
 Media viscosity: 50 centistokes max  
 Mounting: any position  
 Full Open / closing time 3 – 5sec max

# Float Valves

## DN50 – DN300

### Ductile Iron - Bronze - Stainless

## 2 WAY SERVO ASSISTED

### 0.3 – 16 Bar

## FV50-300



### PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow Kv Ltr/ min	Part Number				
				Ductile Iron Epoxy Coated	Bronze	304 Stainless	316 Stainless
2	50	1250	FV50 + material				
2 1/2	65	1750	FV65 + material				
3	80	2300	FV80 + material				
4	100	4300	FV100 + material				
5	125	6500	FV125 + material				
6	150	9167	FV150 + material				
8	200	16667	FV200 + material				
10	250	26667	FV250 + material				
12	300	36667	FV300 + material				

### OPTIONS

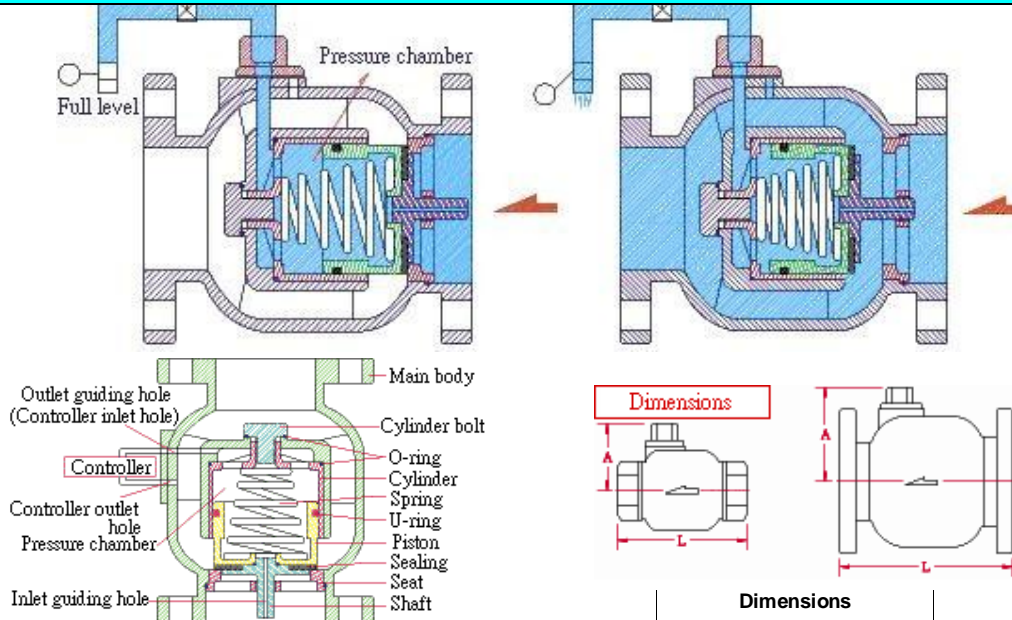
Flange JIS-10K, 20K; ANSI-150LB; PN10 + 25 (Others options TBA)  
 Other custom made options available upon request

### REPAIR KIT

Piston U Ring

SP + Valve Part Number + U RING

### OVERALL DIMENSIONS



Main body	Materials + Pressure Specifications			
	Cast iron	Ductile Epoxy	Bronze	St. St.
Cylinder bolt	Brass	Brass	Brass	St. St.
O-Ring	NBR	NBR	NBR	Request
Cylinder	Bronze	Bronze	Bronze	St. St.
Spring	St. St.	St. St.	St. St.	St. St.
U- ring	NBR	NBR	NBR	Request
Piston	Bronze	Bronze	Bronze	St. St.
Sealing	NBR	NBR	NBR	Request
Seat	Bronze	Bronze	Bronze	St. St.
Shaft	Bronze	Bronze	Bronze	St. St.
Controller	Brass	Brass	Brass	St. St.
Working	12 Bar	20 Bar	12 Bar	22 Bar
Test	21 Bar	32 Bar	21 Bar	35 Bar

Dimensions			
DN	L	A	Kg
50	190	95	10
65	210	100	13
80	225	115	16
100	250	127	22
125	280	150	30
150	310	165	42
200	420	205	85
250	470	240	150
300	530	275	200



Media: water  
 Pressure range: 2 to 13 bar max  
 Media temperature: -15°C +200°C max  
 Ambient temperature: -15° to +60° C  
 Media viscosity: 50 centistokes max  
 Mounting: any position  
 Closing time: 3 – 5 seconds

# Pressure Relief Valve

DN50 – DN300  
 Ductile iron – Bronze - Stainless  
**2 WAY SERVO ASSISTED**  
 0.3 – 16 Bar  
**PRFL**



### PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow	Part Number ΔP Pressure Adjusting Range (2 – 8Bar) or (5 – 13Bar)			
		Kv Ltr/ min				
2	50	1250	PRFL50 + ΔP + material			
2 1/2	65	1750	PRFL65 + ΔP + material			
3	80	2300	PRFL80 + ΔP + material			
4	100	4300	PRFL100 + ΔP + material			
5	125	6500	PRFL125 + ΔP + material			
6	150	9167	PRFL150 + ΔP + material			
8	200	16667	PRFL200 + ΔP + material			
10	250	26667	PRFL250 + ΔP + material			
12	300	36667	PRFL300 + ΔP + material			

### OPTIONS

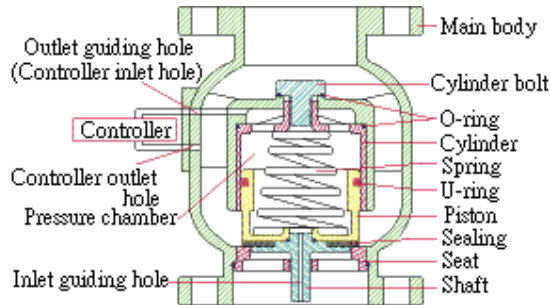
Pressure Regulator  
 Pressure gauge (Displays inlet Pressure)  
 Pressure adjusting range 0.7 to Bar or 4 to 12 Bar  
 316 Stainless steel body (AISI304 price plus addition)  
 Other flange options  
 Other custom made pressure and media options available upon request

### REPAIR KIT

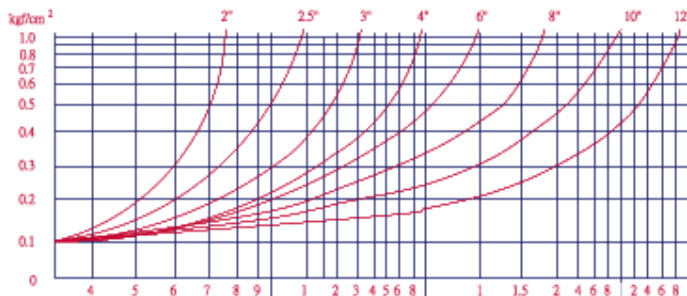
Piston U Ring	SP + Valve Part Number - U RING
Pressure Regulator	BFL + pressure range

### OVERALL DIMENSIONS

Pressure relief valve installed on the pipe outlet to maintain safe water pressure and prevent pipeline and equipment damage caused by accidental over pressure. If pressure exceeds set limit the valve opens releasing over pressure and will close again when pressure returns.



	Materials + Pressure Specifications		
Main body	Ductile	Bronze	St. St.
Cylinder bolt	Brass	Brass	St. St.
O-Ring	NBR	NBR	NBR or FKM
Cylinder	Bronze	Bronze	St. St.
Spring	St. St.	St. St.	St. St.
U- ring	NBR	NBR	Request
Piston	Bronze	Bronze	St. St.
Sealing	NBR	NBR	NBR or FKM
Seat	Bronze	Bronze	St. St.
Shaft	Bronze	Bronze	St. St.
Controller	Brass	Brass	St. St.
Working	20 Bar	12 Bar	22 Bar
Test	32 Bar	21 Bar	35 Bar



Kg	Dimensions (mm)	
	L	A
12	190	180
15	210	185
18	225	200
24	250	222
32	280	235
44	310	260
87	420	300
152	470	335
202	530	370

