

the name you can trust

2016

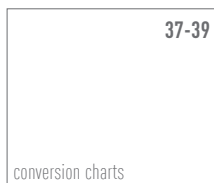


12 year guarantee

**PEX**  
PLUMBEX UK  
[www.plumbex.co.uk](http://www.plumbex.co.uk)

the name you can trust

# contents



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**PEX**  
PLUMBEX UK

PEX is a worldwide leading brand of plumbing valves, fittings and accessories. The PEX brand is wholly owned and manufactured by UK brassware specialist **VADO**.

Established around the principles of design, quality, service and value for money, achieving excellence in each of these principles is why PEX is a globally trusted brand.

### British Standards

Where appropriate, PEX products are designed and manufactured to relevant British Standards: BS5154, BS1010, BS5412 and BS1212.

### WRc-NSF

PEX works closely with WRc-NSF, one of the premier testing and approvals organisations in Europe to ensure that our products conform to relevant standards.



## design

The success of PEX begins with careful attention to product design. All aspects of performance, aesthetics and quality are designed into our products to guarantee a quality product from the outset.

## value for money

Built into everything we do is a belief that excellence in design, quality and service does not have to be at the expense of competitive pricing. Please contact PEX or your local PEX agent or distributor for further information on our products and pricing.

## service

The trust that people place in the PEX name comes not only from their trust in the product quality, but also in the service they receive. Our team of customer service representatives and product technical specialists work in partnership with our international network of agents and sales representatives to ensure we continue to provide service levels which lead the way in the industry.

## quality

As an ISO 9001 accredited company, we are committed to providing customers with products and service to a consistently high standard, which gives us the confidence to offer our 12 year guarantee\*.

# norcross

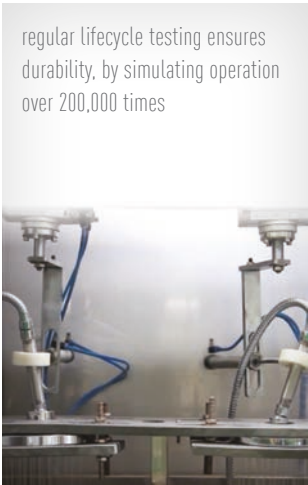
VADO is part of the Norcross Group

\*12 year guarantee subject to appropriate product registration.  
See [www.plumbex.co.uk](http://www.plumbex.co.uk) for further details

VADO's strict manufacturing processes ensure our products can be guaranteed for 12 years, giving peace of mind to all customers.

our exacting manufacturing standards are amongst the very best in the industry

at every stage of the production process there is a rigorous quality check



products are quality checked a minimum of 8 times throughout the production process



we work closely with the industry's leading standards organisations to reinforce our 12 year guarantee



it's a personal experience

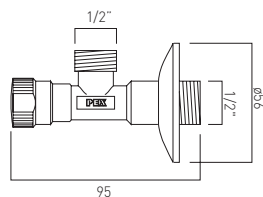
VADO

**PEX-225-C/P**

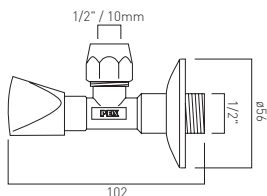
1/2" x 1/2" angle valve

**standard packing details**

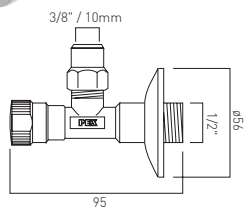
item weight (kg)	0.125
inner box contains box weight (kg)	1 0.148
outer carton contains carton weight (kg)	100 15.0
full pallet contains pallet weight (kg)	2200 345.0

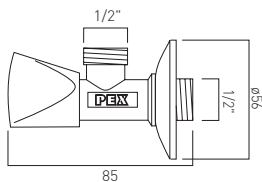
**PEX-226-C/P**1/2" x 1/2" luxury angle valve  
with 10mm compression nut**standard packing details**

item weight (kg)	0.232
inner box contains box weight (kg)	1 0.255
outer carton contains carton weight (kg)	100 26.0
full pallet contains pallet weight (kg)	2200 587.0

**PEX-228-C/P**1/2" x 3/8" angle valve with  
10mm compression nut**standard packing details**

item weight (kg)	0.134
inner box contains box weight (kg)	1 0.158
outer carton contains carton weight (kg)	100 16.0
full pallet contains pallet weight (kg)	2200 367.0



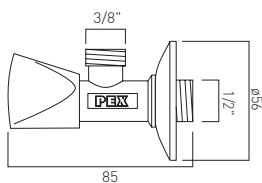


### PEX-229F-C/P

1/2" x 1/2" angle valve with tricorn handle  
(supplied with both hot and cold indices)

#### standard packing details

item weight (kg)	0.182
inner box contains box weight (kg)	1 0.204
outer carton contains carton weight (kg)	100 20.5
full pallet contains pallet weight (kg)	2400 507.0

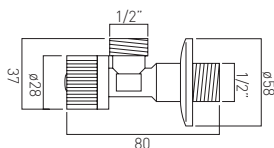


### PEX-236-C/P

1/2" x 3/8" angle valve with tricorn handle  
(supplied with both hot and cold indices)

#### standard packing details

item weight (kg)	0.182
inner box contains box weight (kg)	1 0.204
outer carton contains carton weight (kg)	100 20.5
full pallet contains pallet weight (kg)	2400 507.0



### PEX-233-C/P

quarter turn angle valve 1/2" x 1/2"  
(supplied with both hot and cold indices)

#### standard packing details

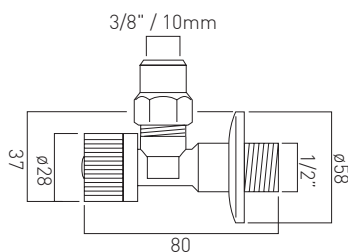
item weight (kg)	0.93
inner box contains box weight (kg)	1 0.113
outer carton contains carton weight (kg)	100 11.5
full pallet contains pallet weight (kg)	2800 337.0

**PEX-234-C/P**

1/2" x 3/8" quarter turn angle valve with  
10mm compression nut  
(supplied with both hot and cold indices)

**standard packing details**

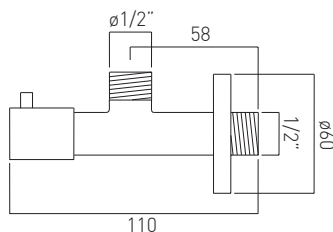
item weight (kg)	0.107
inner box contains box weight (kg)	1 0.126
outer carton contains carton weight (kg)	100 13.0
full pallet contains pallet weight (kg)	2800 379.0

**PEX-230-C/P**

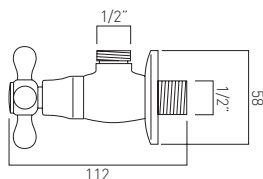
1/2" x 1/2" contemporary quarter turn  
angle valve, includes integrated filter

**standard packing details**

item weight (kg)	0.221
inner box contains box weight (kg)	1 0.25
outer carton contains carton weight (kg)	100 26.0
full pallet contains pallet weight (kg)	1600 431.0





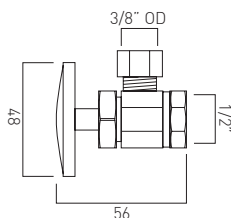


### VIC-160/CD-C/P

victoriana 1/2" x 1/2" angle valve

#### standard packing details

item weight (kg)	0.37
inner box contains box weight (kg)	1 0.41
outer carton contains carton weight (kg)	50 21.0
full pallet contains pallet weight (kg)	900 393.0

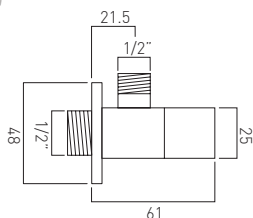


### PEX-231-C/P

american angle valve 1/2" NPT x 3/8" OD

#### standard packing details

item weight (kg)	0.119
inner box contains box weight (kg)	1 0.128
outer carton contains carton weight (kg)	100 13.2
full pallet contains pallet weight (kg)	4000 543.0



### PEX-232-C/P

square quarter turn angle valve  
1/2" x 1/2"

#### standard packing details

item weight (kg)	0.216
inner box contains box weight (kg)	1 0.229
outer carton contains carton weight (kg)	100 23.0
full pallet contains pallet weight (kg)	4500 1050.0

**PEX-SHATTAF**

shattaf kit

1.0 bar MP

finishes available:

chrome PEX-SHATTAF-C/P

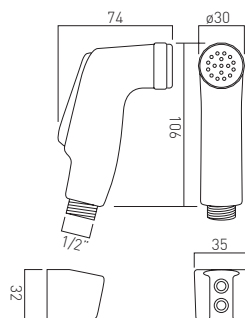
black / chrome PEX-SHATTAF-B/C

white / chrome PEX-SHATTAF-W/C

colour options

5 year  
guarantee

standard packing details	
item weight (kg)	0.282
inner box contains box weight (kg)	1 0.352
outer carton contains carton weight (kg)	20 15.0
full pallet contains pallet weight (kg)	200 165.00

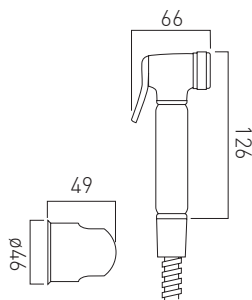
**XSH-LUXSHATTAF/SB-C/P**

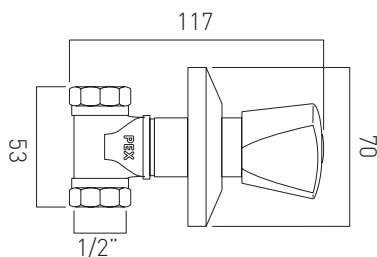
luxury brass shattaf handset

120cm hose and wall bracket

5 year  
guarantee

standard packing details	
item weight (kg)	0.57
inner box contains box weight (kg)	1 0.65
outer carton contains carton weight (kg)	20 13.0
full pallet contains pallet weight (kg)	360 249.0





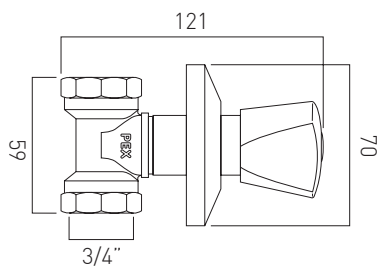
### PEX-760-1/2-C/P

1/2" concealed stop valve  
with tricorn handle

(supplied with both hot and cold indices)

#### standard packing details

item weight (kg)	0.36
inner box contains box weight (kg)	1 0.40
outer carton contains carton weight (kg)	50 21.0
full pallet contains pallet weight (kg)	900 393.0



### PEX-760-3/4-C/P

3/4" concealed stop valve  
with tricorn handle

(supplied with both hot and cold indices)

#### standard packing details

item weight (kg)	0.42
inner box contains box weight (kg)	1 0.46
outer carton contains carton weight (kg)	50 23.5
full pallet contains pallet weight (kg)	900 438.0

## PEX-460S-1.1/4-C/P

bottle trap

1.1/4" x 1.1/4"

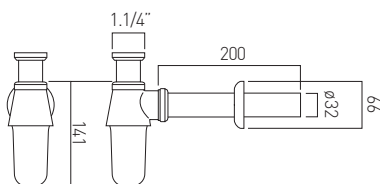
32mm x 200mm outlet pipe

min-max vertical adjustment

50-140mm to outlet centre



standard packing details	
item weight (kg)	0.51
inner box contains box weight (kg)	1 0.58
outer carton contains carton weight (kg)	16 9.5
full pallet contains pallet weight (kg)	384 243.0



## PEX-460-1.1/4-C/P

bottle trap

1.1/4" x 1.1/4"

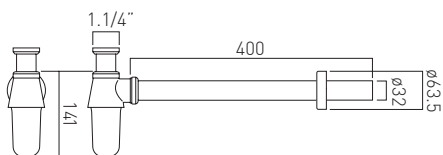
32mm x 400mm outlet pipe

min-max vertical adjustment

60-140mm to outlet centre



standard packing details	
item weight (kg)	0.64
inner box contains box weight (kg)	1 0.73
outer carton contains carton weight (kg)	8 7.1
full pallet contains pallet weight (kg)	96 100.2



## PEX-460-1.1/2-C/P

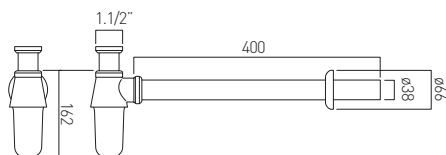
bottle trap

1.1/2" x 1.1/2"

38mm x 400mm outlet pipe

min-max vertical adjustment

50-140mm to outlet centre



### standard packing details

item weight (kg)	0.84
inner box contains box weight (kg)	1 0.94
outer carton contains carton weight (kg)	8 7.9
full pallet contains pallet weight (kg)	96 109.8

## PEX-461-1.1/4-C/P

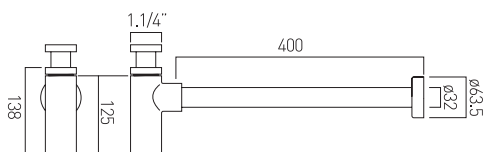
contemporary bottle trap

1.1/4" x 1.1/4"

32mm x 400mm outlet pipe

min-max vertical adjustment

60-140mm to outlet centre



### standard packing details

item weight (kg)	0.86
inner box contains box weight (kg)	1 1.03
outer carton contains carton weight (kg)	12 13.0
full pallet contains pallet weight (kg)	144 171.0

## PEX-461/SQ-1.1/4-C/P

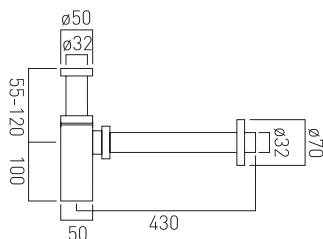
contemporary square bottle trap

1.1/4" x 1.1/4"

32mm x 250mm pipe connections

min-max vertical adjustment

55-120mm to outlet centre



### standard packing details

item weight (kg)	0.79
inner box contains box weight (kg)	1 0.96
outer carton contains carton weight (kg)	12 12.0
full pallet contains pallet weight (kg)	144 159.00

## PEX-480-C/P

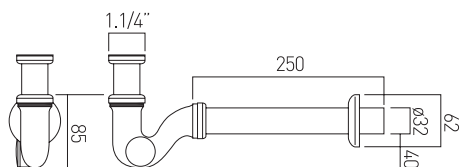
bidet trap

1.1/4" x 1.1/4"

32mm x 250mm outlet pipe

min-max vertical adjustment

100-120mm to outlet centre



### standard packing details

item weight (kg)	0.51
inner box contains box weight (kg)	1 0.59
outer carton contains carton weight (kg)	24 14.5
full pallet contains pallet weight (kg)	432 276.0

## PEX-485-C/P

brass bidet pipe with nut and washer  
250mm x 1.1/4"

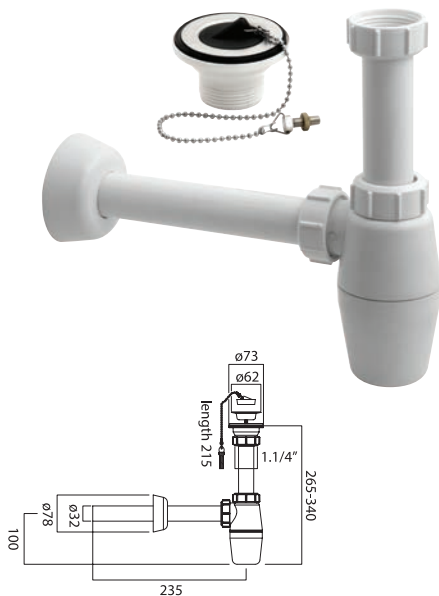


### standard packing details

item weight (kg)	0.13
inner box contains box weight (kg)	1 0.296
outer carton contains carton weight (kg)	100 14.0
full pallet contains pallet weight (kg)	1800 267.0

## PEX-471-WHT

1.1/4" white PP bottle trap with plug,  
chain and waste



### standard packing details

item weight (kg)	0.335
inner box contains box weight (kg)	1 0.378
outer carton contains carton weight (kg)	32 13.0
full pallet contains pallet weight (kg)	896 379.0

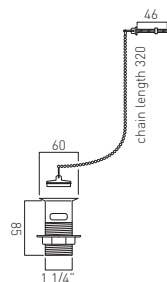
## PEX-KITA-C/P

traditional basin waste kit

1.1/4"

### standard packing details

item weight (kg)	0.262
inner box contains box weight (kg)	1 0.298
outer carton contains carton weight (kg)	100 30.3
full pallet contains pallet weight (kg)	1200 378.6



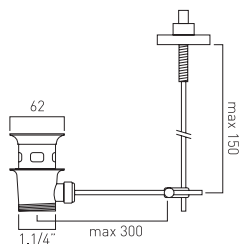
## ELE-PUW/V-C/P

vertical remote pop-up

waste, 1.1/4"

### standard packing details

item weight (kg)	0.6
inner box contains box weight (kg)	1 0.84
outer carton contains carton weight (kg)	8 7.50
full pallet contains pallet weight (kg)	176 180.0



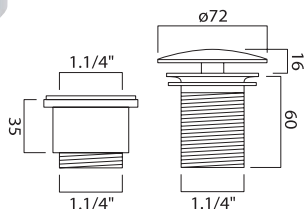
## PEX-309-C/P

freeflow basin waste with sleeve,

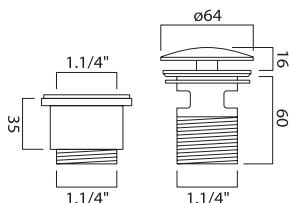
1.1/4"

### standard packing details

item weight (kg)	0.41
inner box contains box weight (kg)	1 0.43
outer carton contains carton weight (kg)	50 22.0
full pallet contains pallet weight (kg)	1200 543.0





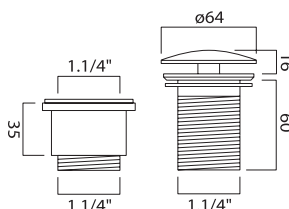


### PEX-389-S-C/P

slotted push type basin waste  
with sleeve, 1.1/4"

#### standard packing details

item weight (kg)	0.42
inner box contains box weight (kg)	1 0.45
outer carton contains carton weight (kg)	60 28.0
full pallet contains pallet weight (kg)	1080 519.0

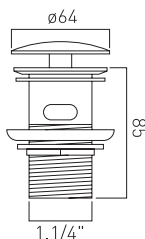


### PEX-389-NS-C/P

un-slotted push type basin waste  
with sleeve, 1.1/4"

#### standard packing details

item weight (kg)	0.43
inner box contains box weight (kg)	1 0.45
outer carton contains carton weight (kg)	60 28.0
full pallet contains pallet weight (kg)	1080 519.0



### PEX-390-S-C/P

slotted push type basin waste  
without sleeve, 1.1/4"

#### standard packing details

item weight (kg)	0.39
inner box contains box weight (kg)	1 0.41
outer carton contains carton weight (kg)	60 21.5
full pallet contains pallet weight (kg)	1080 402.0

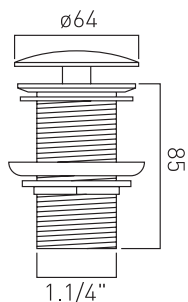
## PEX-390-NS-C/P

un-slotted push type basin waste  
without sleeve, 1.1/4"



### standard packing details

item weight (kg)	0.38
inner box contains box weight (kg)	1 0.40
outer carton contains carton weight (kg)	60 24.5
full pallet contains pallet weight (kg)	1080 456.0



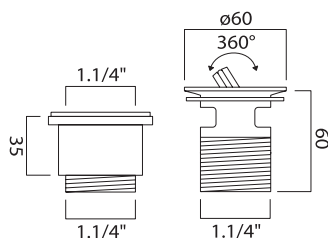
## PEX-392-S-C/P

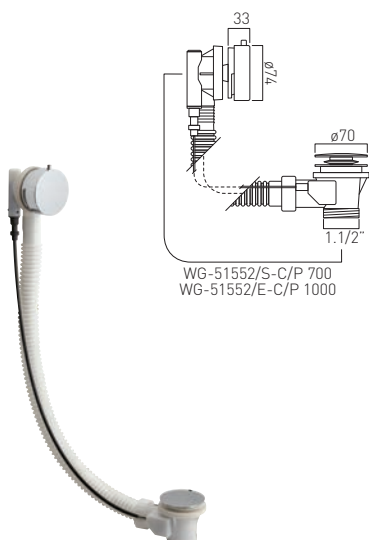
slotted captive basin waste  
with sleeve, 1.1/4"



### standard packing details

item weight (kg)	0.37
inner box contains box weight (kg)	1 0.40
outer carton contains carton weight (kg)	60 24.5
full pallet contains pallet weight (kg)	1080 456.0





### WG-51552/S-C/P

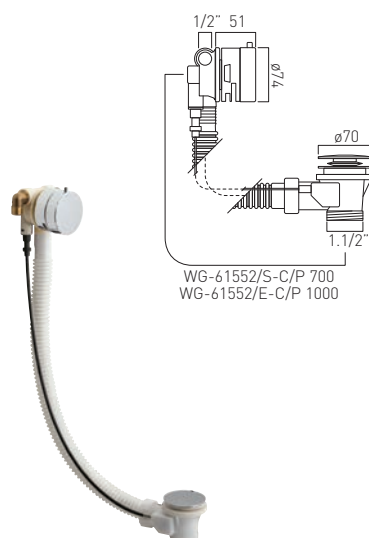
bath pop-up waste  
and overflow 1.1/2"

### WG-51552/E-C/P

bath pop-up waste  
and overflow,  
extended version 1.1/2"

#### standard packing details

WG-51552	/S	/E
item weight (kg)	0.66	0.71
inner box contains box weight (kg)	1 1.11	1 1.17
outer carton contains carton weight (kg)	10 12.4	10 13.0
full pallet contains pallet weight (kg)	80 114.2	80 119.0



### WG-61552/S-C/P

bath pop-up filler waste  
and overflow 1.1/2"

### WG-61552/E-C/P

bath pop-up filler waste  
and overflow,  
extended version 1.1/2"

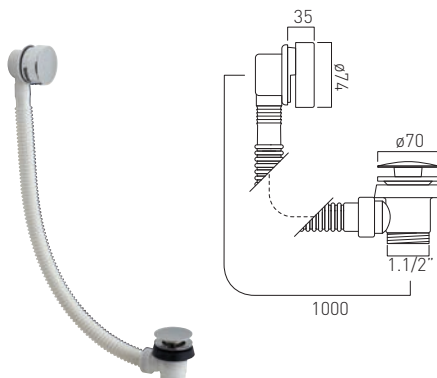
#### standard packing details

WG-61552	/S	/E
item weight (kg)	1.11	1.16
inner box contains box weight (kg)	1 1.66	1 1.72
outer carton contains carton weight (kg)	10 17.9	10 18.5
full pallet contains pallet weight (kg)	80 158.2	80 163.0

## WG-51389/E-C/P

push type bath waste  
and overflow 1.1/2"

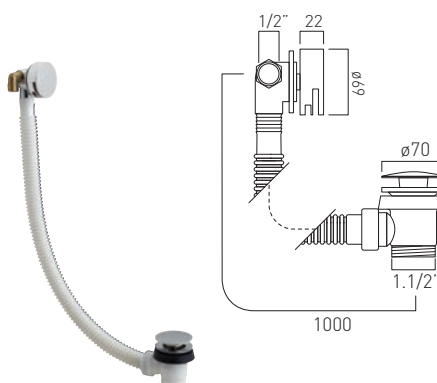
standard packing details	
item weight (kg)	0.62
inner box contains box weight (kg)	1 1.05
outer carton contains carton weight (kg)	10 11.8
full pallet contains pallet weight (kg)	80 109.4



## WG-61389/E-C/P

push type bath filler  
waste and overflow 1.1/2"

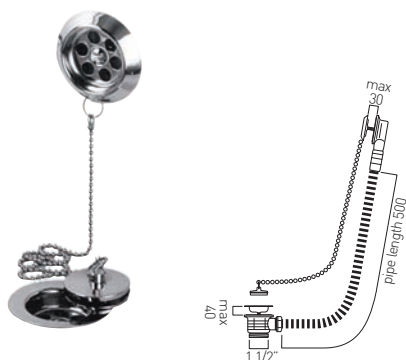
standard packing details	
item weight (kg)	1.04
inner box contains box weight (kg)	1 1.81
outer carton contains carton weight (kg)	10 19.5
full pallet contains pallet weight (kg)	80 171.0

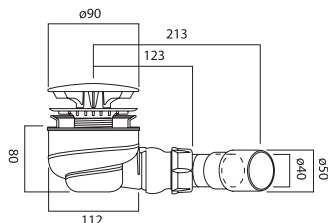


## PEX-KITB-STOW-C/P

traditional stowaway bath waste with  
metal plug and chain, 1.1/2"

standard packing details	
item weight (kg)	0.23
inner box contains box weight (kg)	1 0.32
outer carton contains carton weight (kg)	20 7.0
full pallet contains pallet weight (kg)	240 99.0



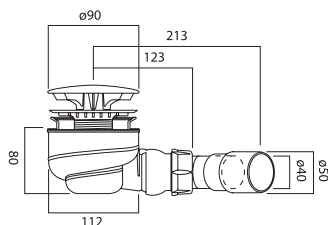


## WG-205240-C/P

turbo tray waste  
ABS - 90mm flange

### standard packing details

item weight (kg)	0.377
inner box contains box weight (kg)	1 0.461
outer carton contains carton weight (kg)	10 5.50
full pallet contains pallet weight (kg)	90 64.50

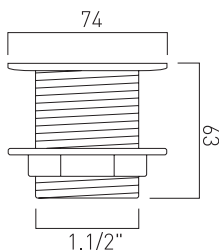


## WG-205241-C/P

turbo tray waste  
metal - 90mm flange

### standard packing details

item weight (kg)	0.606
inner box contains box weight (kg)	1 0.693
outer carton contains carton weight (kg)	10 7.50
full pallet contains pallet weight (kg)	90 82.50



## PEX-451TK-C/P

brass top kleen  
shower tray waste

### standard packing details

item weight (kg)	0.279
inner box contains box weight (kg)	1 0.298
outer carton contains carton weight (kg)	50 16.0
full pallet contains pallet weight (kg)	1800 591.0

**PEX-222/30-C/P****PEX-222/40-C/P**

braided flexible hose

1/2" x 1/2"

supplied in lengths:

300mm PEX-222/30

400mm PEX-222/40

**standard packing details**

size (mm)	300	400
item weight (kg)	0.096	0.11
inner box contains	100	100
box weight (kg)	10	11.91
full pallet contains	2700	2700
pallet weight (kg)	285.0	336.3

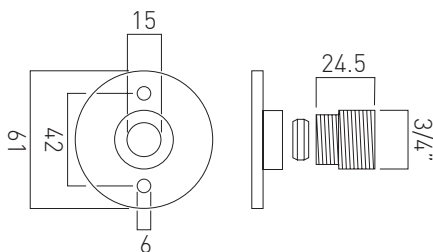
**WG-049BRACK+SHR-C/P**

pair of shower elbows with shrouds

chrome

**standard packing details**

item weight (kg)	0.343
inner box contains	2
box weight (kg)	0.368
outer carton contains	100
carton weight (kg)	38.0
full pallet contains	1600
pallet weight (kg)	623.0



PEX-602-15MM

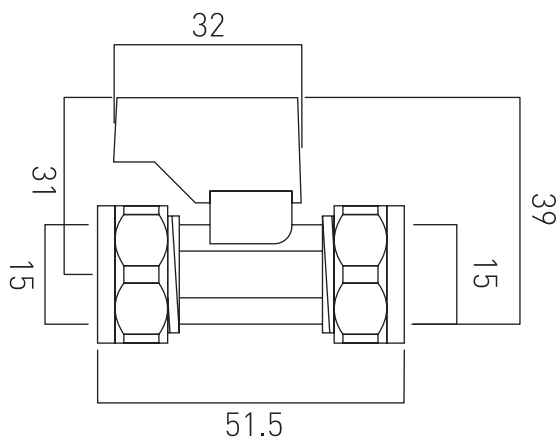
compression mini ball valve

15mm

chrome finish



standard packing details	
item weight (kg)	0.88
inner box contains box weight (kg)	20 1.81
outer carton contains carton weight (kg)	240 22.0
full pallet contains pallet weight (kg)	8640 807.0



## PEX-710-BR-1/2

## PEX-710-BR-3/4

brass round nose bibtap,  
export pattern

maximum pressure conditions:  
10 bar - temp up to 90°C

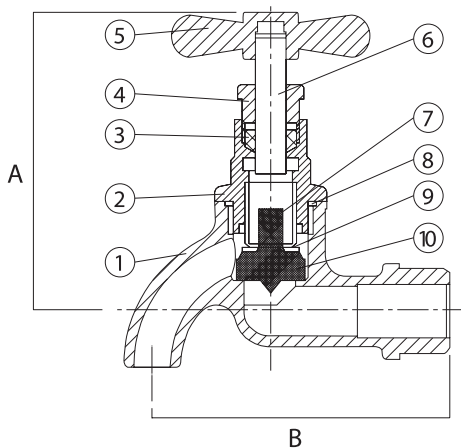


### standard packing and dimensions

size	1/2"	3/4"
item weight (kg)	0.216	0.261
inner box contains	25	25
box weight (kg)	5.5	5.11
outer carton contains	100	100
carton weight (kg)	22.0	26.5
full pallet contains	3600	3600
pallet weight (kg)	807.0	969.0
dimension A mm	66	73
dimension B mm	71	79

### material specification

key	component	material
1	body	brass
2	bonnet	brass
3	gland packing	PTFE
4	nut	brass
5	handle	brass
6	stem	brass
7	stopper stem	brass
8	o-ring	NBR
9	washer	brass
10	stopper	NBR







**PEX-711N-1/2x3/4**

**PEX-711N-3/4x3/4**

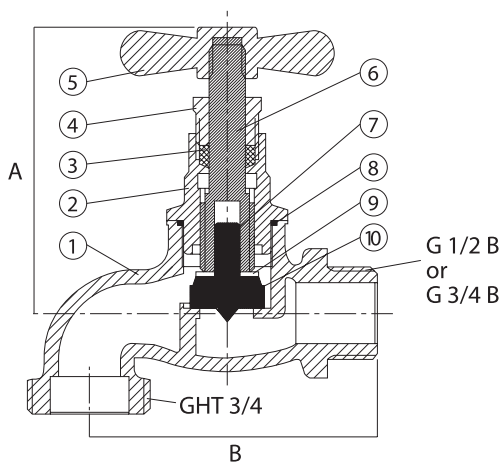
brass FxF bibtap, BS1010

- manufactured to BS1010 standard
- BS2779 parallel thread

maximum pressure conditions:  
16 bar - temp up to 90°C

#### standard packing and dimensions

size	1/2" x 3/4"	3/4" x 3/4"
item weight (kg)	0.261	0.288
inner box contains	25	20
box weight (kg)	6.63	5.89
outer carton contains	100	80
carton weight (kg)	27.0	27.0
full pallet contains	3600	3600
pallet weight (kg)	987.0	1230.0
dimension A mm	63	63
dimension B mm	70	85



#### material specification

key	component	material
1	body	brass
2	bonnet	brass
3	gland packing	PTFE
4	nut	brass
5	handle	brass
6	stem	brass
7	stopper stem	brass
8	o-ring	NBR
9	washer	brass
10	stopper	NBR

**PEX-708-1/2**

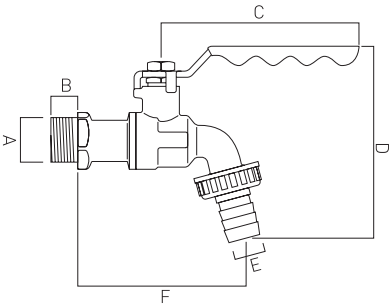
**PEX-708-3/4**

lever arm bibtap  
 now with new easy grip handle  
 chrome plated

maximum pressure conditions:  
 10 bar - temp up to 90°C



standard packing and dimensions			
	size	1/2"	3/4"
item weight (kg)		0.248	0.32
inner box contains		10	10
box weight (kg)		0.249	3.34
outer carton contains		80	80
carton weight (kg)		21.5	27.5
full pallet contains		2400	2400
pallet weight (kg)		660.0	840.0
dimension A mm		66	73
dimension B mm		71	79



dimensions			
key	measurement	PEX-708-1/2"	PEX-708-3/4"
A	threaded connection diameter	1/2"	3/4"
B	threaded connection length	12mm	13mm
C	handle length	92mm	92mm
D	handle to spout centre height	90mm	95mm
E	hose fitting inside diameter	16mm	20mm
F	wall mount to spout centre	78mm	80mm

## PEX-600



FxF lever arm ball valve  
with easy grip handle

maximum pressure conditions:  
25 bar - temp up to 100°C  
16.5 bar - temp up to 150°C

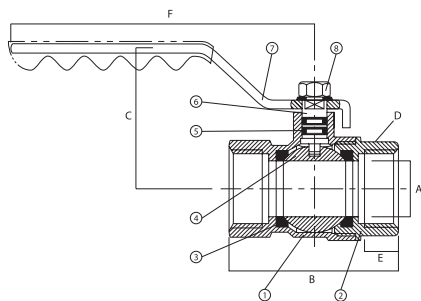
- PN 25 rating
- full bore
- quarter turn operation
- high quality PTFE seal
- nickel plated finish

suitable for steam, water, oil and air

available sizes as per the 'standard  
packing details' table

### standard packing details

size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"
item weight (kg)	0.17	0.261	0.45	0.558	0.878	1.45	2.71	3.46	5.76
inner box contains box weight (kg)	20 3.53	15 4.06	10 4.64	6 3.64	4 3.68	2 3.11	1 22	1 21.5	1 24
outer carton contains carton weight (kg)	120 21.5	90 25.0	60 28.0	36 22.0	24 23.0	16 25.0	8 22.0	6 21.5	4 24
full pallet contains pallet weight (kg)	3600 660.0	2700 765.0	1350 695.0	810 540.0	552 544.0	384 615.0	256 719.0	216 789.0	112 687.0
dimension A mm	14.5	19	24	30	38	48	62	72	90
dimension B mm	52	58	70.5	80.5	90.5	109	129	144.5	171
dimension C mm	44	48	58	80.5	90.5	83	115	123	136
dimension D	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"
dimension E mm	10	11	15	16	17	18	21	21.5	23.5
dimension E mm	87	102	113	132	152	152	224	224	255



### material specification

key	component	material
1	body	brass
2	end piece	brass
3	seal	PTFE
4	ball	chrome plated brass
5	o-ring	NBR
6	stem	brass
7	handle	steel
8	nut	steel

# PEX-609

compression lever arm ball valve  
with easy grip handle

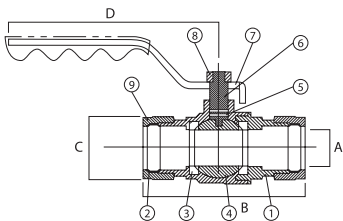
maximum pressure conditions:  
16 bar - temp up to 30°C  
5 bar - temp up to 120°C

- PN 16 rating
- compression ends to BS864/2
- full bore
- quarter turn operation
- high quality PTFE seal
- nickel plated finish

available sizes as per the 'standard  
packing details' table

standard packing and dimensions				
size	15mm	22mm	28mm	
item weight (kg)	0.191	0.323	0.494	
inner box contains	20	15	10	
box weight (kg)	4	4.98	5.12	
outer carton contains	80	60	40	
carton weight (kg)	20.5	21.5	21.0	
full pallet contains	3600	2340	2080	
pallet weight (kg)	937.5	853.5	1107.0	
dimension A mm	15	22	28	
dimension B mm	68	80	93	
dimension C mm	24	32	38	
dimension D mm	85	105	113	

material specification		
key	component	material
1	body	brass
2	compression olive	brass
3	seal	PTFE
4	ball	chrome plated brass
5	o-ring	NBR
6	stem	brass
7	handle	steel
8	nut	steel
9	BS864/2 compression nut	brass





## PEX-605BS

brass Fx gate valve, BS5154

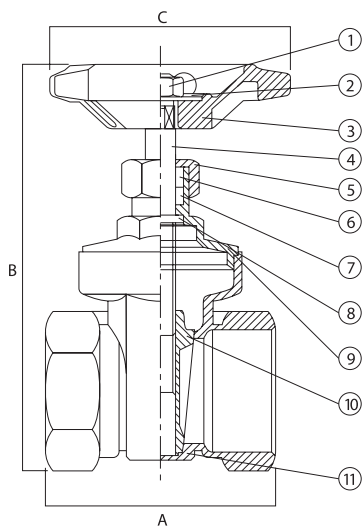
suitable for:  
steam, water and oil

- BS5154 PN20
- non rising stem
- solid brass wedge
- high quality PTFE packing
- BS2779 parallel thread (PT)

maximum pressure conditions:  
temp up to 100°C - 20.0Bar  
temp up to 180°C - 9.0Bar

available sizes as per the 'standard packing details' table

standard packing details									
size A (mm)	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"
item weight (kg)	0.214	0.327	0.451	0.786	0.994	1.69	2.9	3.68	6.46
inner box contains box weight (kg)	20 4.46	15 4.99	10 4.67	5 4.05	4 4.11	3 5.17	6 18.0	6 23.5	2 13.5
outer carton contains carton weight (kg)	80 18.4	60 20.5	40 19.2	20 16.5	16 16.8	12 21.1	6 18.0	6 23.0	2 13.5
full pallet contains pallet weight (kg)	2880 677.4	2160 753.0	1440 706.2	720 609.0	576 619.8	432 774.6	192 591.0	192 751.0	108 744.0
dimension A mm	47	53	58	76	82	88	97	111	132
dimension B mm	86	98	116	139	157	188	232	258	334
dimension C mm	61	61	71	85	85	100	150	150	150



material specification		
key	component	material
1	handwheel nut	brass
2	rating disc	aluminium
3	handwheel	aluminium alloy
4	stem	brass bar
5	gland nut	forged brass
6	gland packing	PTFE
7	gland	brass bar
8	stem ring	brass bar
9	bonnet	forged brass
10	wedge	forged brass (1/2"-2") gravity die cast brass (2.1/2"-6")
11	body	forged brass (1/2"-2") gravity die cast brass (2.1/2"-6")

### PEX-603BS

brass compression gate valve  
BS5154

### PEX-603DZR

DZR brass compression gate valve  
BS5154

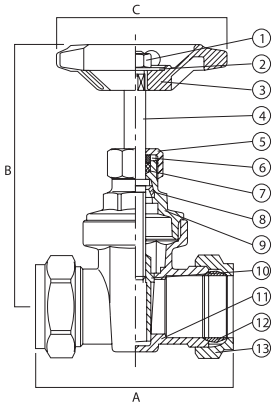
available sizes as per the 'standard packing details' table



PEX 603BS standard packing details				
	size	15mm	22mm	28mm
item weight (kg)		0.235	0.346	0.485
inner box contains		20	15	10
box weight (kg)		4.85	5.31	5.06
outer carton contains		80	60	40
carton weight (kg)		20.0	21.5	20.5
full pallet contains		2160	1620	1080
pallet weight (kg)		555.0	595.5	568.5
dimension A mm		57	67	75
dimension B mm		79	89	104
dimension C mm		61	61	70

PEX 603DZR standard packing details				
	size	35mm	42mm	54mm
item weight (kg)		0.824	1.22	2.26
inner box contains		1	4	3
box weight (kg)		17	5.04	6.88
outer carton contains		17	16	12
carton weight (kg)		20.0	21.5	28.0
full pallet contains		720	576	324
pallet weight (kg)		627.0	789.0	771.0
dimension A mm		89	103	123
dimension B mm		112	125	152
dimension C mm		85	85	100

material specification		PEX 603BS	PEX 603DZR
key	component	material	material
1	handwheel nut	brass	brass
2	rating disc	aluminium	aluminium
3	handwheel	aluminium alloy	aluminium alloy
4	stem	brass	DZR brass-CZ132
5	gland nut	brass	brass
6	gland	brass	brass
7	gland packing	PTFE	PTFE
8	stem ring	brass	DZR brass-CZ132
9	bonnet	brass	DZR brass-CZ132
10	wedge	brass	DZR brass-CZ132
11	body	brass	DZR brass-CZ132
13	compression olive	brass	DZR brass-CZ132
14	BS874/2 compression nut	brass	brass

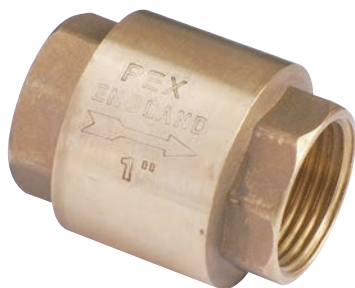


## PEX-301B

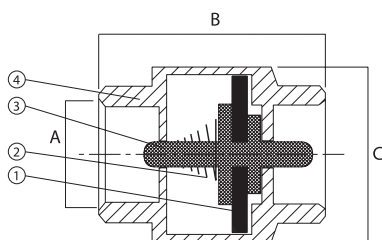
brass universal spring check valve

maximum pressure conditions:  
10 bar - temp up to 90°C

available sizes as per the  
'standard packing details' table



standard packing and dimensions						
size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
item weight (kg)	0.167	0.214	0.264	0.442	0.561	0.826
inner box contains	20	10	10	5	2	2
box weight (kg)	3.37	2.16	2.68	2.24	1.14	1.68
outer carton contains	200	100	100	50	30	30
carton weight (kg)	35.00	22.50	27.50	23.00	17.50	25.50
full pallet contains	4800	3600	2700	1800	1620	960
pallet weight (kg)	855.0	825.0	757.50	843.0	960.0	831.0
dimension A	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
dimension B mm	43	49.5	57	67	69	74
dimension C mm	38	43	47	60	66	82



material specification		
key	component	material
1	washer	NBR
2	spring	stainless steel
3	spindle	brass
4	body	brass

PEX-413-GAUGE

pressure gauge to suit PEX-413

Units of Scale: bar - psi

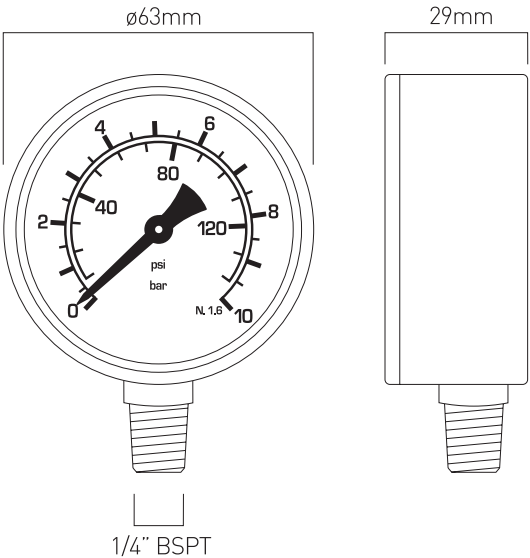
Pressure range: 0-10 bar

Connection: 1/4" Male

Connector position: axial or radial

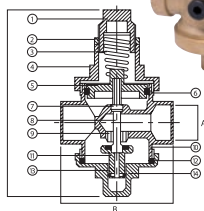
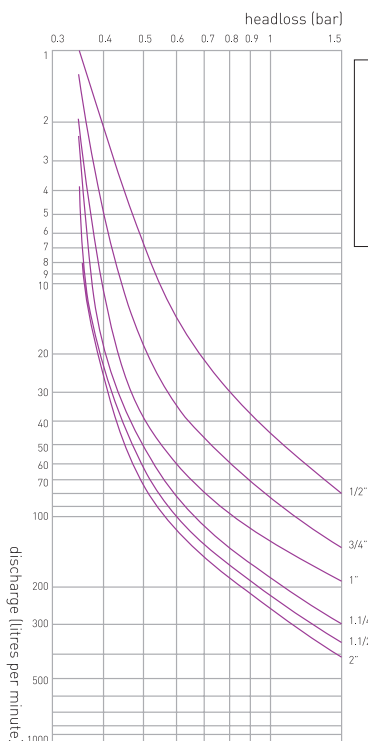
standard packing details

item weight (kg)	0.092
inner box contains	1
box weight (kg)	0.114





discharge and headloss diagram



## PEX-413\*

brass pressure reducing valve

maximum/minimum outlet pressure  
(all sizes):

maximum: 6 bar - minimum: 0.5 bar

maximum operating temp: 80°C

maximum inlet pressure: 25 bar

material specification

key	component	material	in contact with water
1	spring holder	brass	no
2	fixed ring	brass	no
3	spring	steel	no
4	upper cap	brass	no
5	membrane	brass	yes
6	o-ring	NBR	yes
7	sealing ring with o-ring	brass + NBR	yes
8	bar	brass*	yes
9	seat	stainless steel	yes
10	body	brass	yes
11	shutter	brass	yes
12	gasket	fibre	yes
13	o-ring	NBR	yes
14	lower cap	brass	yes

\*stainless steel in sizes higher than 1"

standard packing and dimensions

size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"
item weight (kg)	0.722	1.12	1.33	2.28	2.37	3.12	4.05	5.53	6.91
inner box contains box weight (kg)	1 0.79	1 1.19	1 1.41	1 2.42	1 2.51	1 3.32	1 4.33	1 5.76	1 7.33
outer carton contains carton weight (kg)	36 35.6	32 39.0	32 46.0	12 29.3	12 32.5	6 20.5	6 26.5	3 17.5	2 15.0
full pallet contains pallet weight (kg)	648 655.8	576 717.0	576 843.0	216 542.04	216 600.36	108 384.0	108 492.0	54 330.0	36 285.0
dimension A	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"
dimension B mm	75	85	89	125	130	138	145	177	190
dimension C mm	120	150	160	220	220	250	260	285	310
flow (l/min)	20	34	66	110	160	240	140-180	160-220	200-260
surface in contact with water (cm <sup>2</sup> )	69.3	128.3	148.3	295.0	287.3	700.1	855.5	1034	1286
surface / volume	1.53	1.23	1.16	0.94	0.94	0.72	0.91	0.85	0.78

\*available sizes as per the 'standard packing details' table

## PEX-140S-1/2

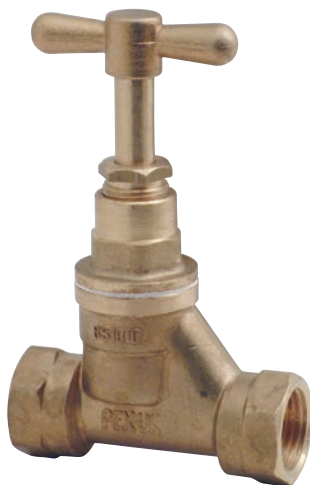
## PEX-140S-3/4

brass Fx F stop cock, BS1010

- manufactured to BS1010 standard
- BS2779 parallel thread

maximum pressure conditions:

16 bar - temp up to 90°C

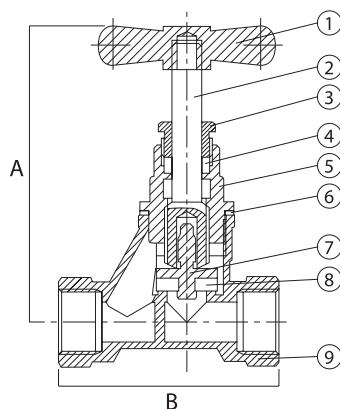


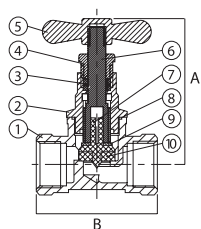
### standard packing and dimensions

size	1/2"	3/4"
item weight (kg)	0.296	0.601
inner box contains	20	10
box weight (kg)	6.18	6.12
outer carton contains	80	40
carton weight (kg)	25.0	25.0
full pallet contains	2880	1440
pallet weight (kg)	915.0	915.0
dimension A mm	96	109
dimension B mm	69	98

### material specification

key	component	material
1	handle	brass
2	stem	brass
3	gland	brass
4	gland packing	PTFE
5	bonnet	brass
6	gasket	rubber plate
7	stopper stem	brass
8	stopper	NBR
9	body	brass



**PEX-149-1/2****PEX-149-3/4**

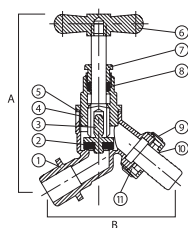
brass export pattern stop cock

maximum pressure conditions:

16 bar - temp up to 90°C

material specification		
key	component	material
1	body	brass
2	bonnet	brass
3	gland packing	PTFE
4	nut	brass
5	handle	brass
6	stem	brass
7	stopper stem	brass
8	o-ring	NBR
9	washer	brass
10	stopper	NBR

standard packing and dimensions			
	size	1/2"	3/4"
item weight (kg)		0.21	0.26
inner box contains box weight (kg)		25 5.27	25 6.66
outer carton contains carton weight (kg)		100 21.5	100 27.5
full pallet contains pallet weight (kg)		3600 789.0	3600 1005.0
dimension A mm		65	65
dimension B mm		53	59

**PEX-151-BR-1/2****PEX-151-BR-3/4**brass heavy duty hose union bibcock,  
BS1010

maximum pressure conditions:

10 bar - temp up to 90°C

material specification		
key	component	material
1	body	brass
2	stopper	NBR
3	stopper stem	brass
4	bonnet	brass
5	gasket	rubber plate
6	handle	brass
7	gland	brass
8	gland packing	PTFE
9	nut	brass
10	hose union	brass
11	o-ring	NBR

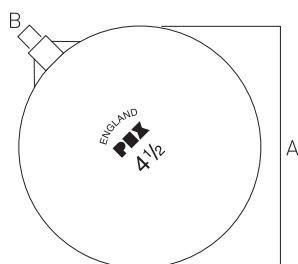
standard packing and dimensions			
	size	1/2"	3/4"
item weight (kg)		0.308	0.572
inner box contains box weight (kg)		20 6.31	10 6.1
outer carton contains carton weight (kg)		80 25.5	40 24.0
full pallet contains pallet weight (kg)		2880 933.0	1440 879.0
dimension A mm		106	124
dimension B mm		78	108

# PEX-816

orange ball float

- PP float
- nipple with brass threaded insert

available sizes as per the 'standard packing details' table



## standard packing details

size	4.1/2"	5"	6"	8"	10"
item weight (kg)	0.09	0.109	0.16	0.41	0.762
outer bag contains	100	50	50	50	10
bag weight (kg)	9.0	5.5	8.0	20.5	7.6

## dimensions

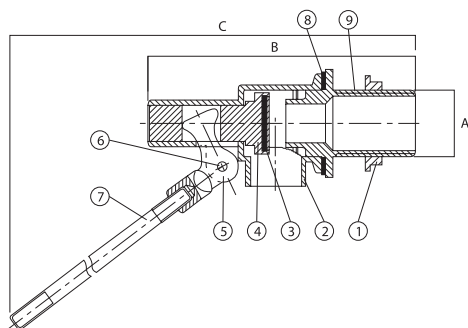
size (inches)	4.1/2"	5"	6"	8"	10"
diameter A (inches)	4.1/2"	5"	6"	8"	10"
connection B (inches)	5/16"	5/16"	7/16"	7/16"	7/16"



## PEX-806

brass MOH float valve

(if required with orange PP ball float  
please order as PEX-836)



- solid brass one piece construction
- brass back nut
- brass piston

maximum pressure conditions:  
14 bar - temp up to 160°C

available sizes as per the  
'standard packing details' table

standard packing details						
size	1/2"	3/4"	1"HH	1.1/4"	1.1/2"	2"
item weight (kg)	0.264	0.304	0.629	1.43	1.52	1.62
inner box contains	75	50	20	16	16	16
box weight (kg)	20.5	15.5	13.0	24.0	25.0	26.0
full pallet contains	3375	2250	1080	384	384	384
pallet weight (kg)	937.5	712.5	717.0	591.0	615.0	639.0
dimension A	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
dimension B mm	78	79	92	167	167	170
dimension C mm	255	305	360	470	515	515
flow rate at 1bar (m³/hr)	0.47	0.73	1.63	3.9	4.2	4.6
hole in seat diameter mm	6.0	7.5	11.5	25	25	25

material specification		
key	component	material
1	flange nut	brass
2	body	brass
3	washer	EDPM
4	piston	brass
5	arm sleeve	brass
6	pin	brass
7	arm	brass
8	washer *	fibre
9	tail	brass
* on sizes larger than 1"		

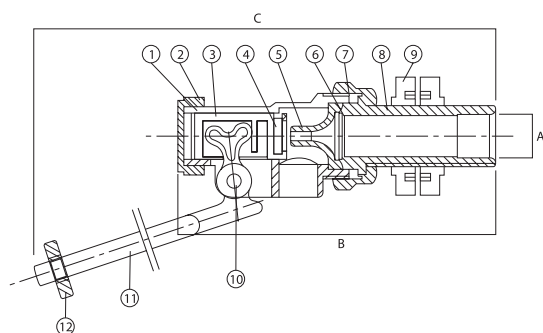
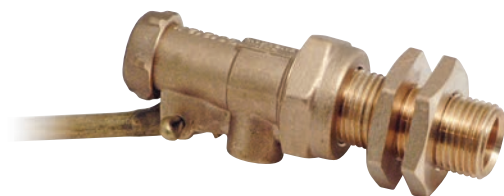
recommended float sizes		
valve size	ball size	item code (valve & float)
3/8"	4.1/2"	PEX - 836 - 3/8 - 4.1/2
1/2"	4.1/2"	PEX - 836 - 1/2 - 4.1/2
3/4"	5"	PEX - 836 - 3/4 - 5
1"HH	6"	PEX - 836 - 1 - 6
1.1/4"	8"	PEX - 836 - 1.1/4 - 8
1.1/2"	10"	PEX - 836 - 1.1/2 - 10
2"	10"	PEX - 836 - 2 - 10

## PEX-807-1/2

## PEX-807-3/4

brass BS1212 (pt.1) float valve

- manufactured to BS1212 standard
- fully interchangeable parts
- solid brass piston and back nuts
- removable seat



### standard packing and dimensions

size	1/2"	3/4"
item weight (kg)	0.312	0.64
outer carton contains carton weight (kg)	50 16.0	30 20.0
full pallet contains pallet weight (kg)	2250 735.0	1020 695.0
dimension A	1/2"	3/4"
dimension B mm	107	128
dimension C mm	290	388

### material specification

key	component	material
1	body	brass
2	end nut	brass
3	piston	brass
4	washer	EDPM
5	seat	POM (plastic)
6	washer	fibre
7	joint nut	brass
8	tail	brass
9	nut	brass
10	pin	brass
11	arm	brass
12	arm nut	brass

## metric conversion factors: pressure and stress

multiply	by	to obtain
atmosphere (14.6959 lb/inch 2)	101,325.	pascal (Pa)
bar	100,000. *	pascal (Pa)
bar	14.50377	pound/inch 2
bar	100,000. *	newton/metre 2(N/m 2)
hectobar	0.6474898	ton (long)/inch 2
kilogram/centimetre 2	14.22334	pound/inch 2
kilogram/metre 2	9.806650 *	newton/metre 2(N/m 2)
kilogram/metre 2	9.806650 *	pascal (Pa)
kilogram/metre 2	0.2048161	pound/foot 2
kilonewton/metre 2	0.1450377	pound/inch 2
newton/centimetre 2	1.450377	pound/inch 2
newton/metre 2	0.00001 *	bar
newton/metre 2	1.0	pascal (Pa)
newton/metre 2	0.0001450377	pound/inch 2
newton/metre 2	0.1019716	kilogram/metre 2
newton/millimetre 2	145.0377	pound/inch 2
pascal	0.0000986923	atmosphere
pascal	0.00001 *	bar
pascal	0.1019716	kilogram/metre 2
pascal	1.0 *	newton/metre 2(N/m 2)
pascal	0.02088543	pound/foot 2
pascal	0.0001450377	pound/inch 2
pound/foot 2	4.882429	kilogram/metre 2
pound/foot 2	47.88026	pascal (Pa)
pound/inch 2	0.06894757	bar
pound/inch 2	0.07030697	kilogram/centimetre 2
newton/centimetre 2	0.6894757	newton/centimetre 2
pound/inch 2	6.894757	kilonewton/metre 2
pound/inch 2	6,894.757	newton/metre 2(N/m 2)
pound/inch 2	0.006894757	newton/millimetre 2(N/mm 2)
pound/inch 2	6,894.757	pascal (Pa)
ton (long)/inch 2	1.544426	hectobar

## metric conversion factors: mass and density

multiply	by	to obtain
atmosphere (14.6959 lb/inch <sup>2</sup> )	101,325.	pascal (Pa)
bar	100,000. *	pascal (Pa)
bar	14.50377	pound/inch <sup>2</sup>
bar	100,000. *	newton/metre <sup>2</sup> (N/m <sup>2</sup> )
hectobar	0.6474898	ton (long)/inch <sup>2</sup>
kilogram/centimetre <sup>2</sup>	14.22334	pound/inch <sup>2</sup>
kilogram/metre <sup>2</sup>	9.806650 *	newton/metre <sup>2</sup> (N/m <sup>2</sup> )
kilogram/metre <sup>2</sup>	9.806650 *	pascal (Pa)
kilogram/metre <sup>2</sup>	0.2048161	pound/foot <sup>2</sup>
kiloneutron/metre <sup>2</sup>	0.1450377	pound/inch <sup>2</sup>
newton/centimetre <sup>2</sup>	1.450377	pound/inch <sup>2</sup>
newton/metre <sup>2</sup>	0.00001 *	bar
newton/metre <sup>2</sup>	1.0	pascal (Pa)
newton/metre <sup>2</sup>	0.0001450377	pound/inch <sup>2</sup>
newton/metre <sup>2</sup>	0.1019716	kilogram/metre <sup>2</sup>
newton/millimetre <sup>2</sup>	145.0377	pound/inch <sup>2</sup>
pascal	0.00000986923	atmosphere
pascal	0.00001 *	bar
pascal	0.1019716	kilogram/metre <sup>2</sup>
pascal	1.0 *	newton/metre <sup>2</sup> (N/m <sup>2</sup> )
pascal	0.02088543	pound/foot <sup>2</sup>
pascal	0.0001450377	pound/inch <sup>2</sup>
pound/foot <sup>2</sup>	4.882429	kilogram/metre <sup>2</sup>
pound/foot <sup>2</sup>	47.88026	pascal (Pa)
pound/inch <sup>2</sup>	0.06894757	bar
pound/inch <sup>2</sup>	0.07030697	kilogram/centimetre <sup>2</sup>
newton/centimetre <sup>2</sup>	0.6894757	newton/centimetre <sup>2</sup>
pound/inch <sup>2</sup>	6.894757	kiloneutron/metre <sup>2</sup>
pound/inch <sup>2</sup>	6,894.757	newton/metre <sup>2</sup> (N/m <sup>2</sup> )
pound/inch <sup>2</sup>	0.006894757	newton/millimetre <sup>2</sup> (N/mm <sup>2</sup> )
pound/inch <sup>2</sup>	6,894.757	pascal (Pa)
ton (long)/inch <sup>2</sup>	1.544426	hectobar



## metric conversion factors: length

multiply	by	to obtain
centimetre	0.0328084	foot
centimetre	0.3937008	inch
fathom	1.8288 *	metre (m)
foot	0.3048 *	metre (m)
foot	30.48 *	centimetre (cm)
foot	304.8 *	millimetre (mm)
inch	0.0254 *	metre (m)
inch	2.54 *	centimetre (cm)
inch	25.4 *	millimetre (mm)
kilometre	0.6213712	mile (US statute)
metre	39.37008	inch
metre	0.54680066	fathom
metre	3.280840	foot
metre	0.1988388	rod
metre	1.093613	yard
metre	0.0006213712	mile (US statute)
microinch	0.0254 *	micrometre (micron) (um)
micrometre (micron)	39.37008	microinch
mile (US statute)	1,609.344 *	metre (m)
mile (US statute)	1.609344 *	kilometre (km)
millimetre	0.003280840	foot
millimetre	0.0397008	inch
rod	5.0292 *	metre (m)
yard	0.9144 *	metre (m)

## metric conversion factors: temperature

to convert from	to	use this formula
temperature Celsius, t C	temperature Kelvin, t K	$t K = t C + 273.15$
temperature Fahrenheit, t F	temperature Kelvin, t K	$t K = (t F + 459.67) / 1.8$
temperature Celsius, t C	temperature Fahrenheit, t F	$t F = 1.8 t C + 32$
temperature Fahrenheit, t F	temperature Celsius, t C	$t C = (t F - 32) / 1.8$
temperature Kelvin, t K	temperature Celsius, t C	$t C = t K - 273.15$
temperature Kelvin, t K	temperature Fahrenheit, t F	$t F = 1.8 t K - 459.67$
temperature Kelvin, t K	temperature Rankine, t R	$t R = 9/5 t K$
temperature Rankine, t R	temperature Kelvin, t K	$t K = 5/9 t R$

**note: symbols of SI units, multiples and submultiples are given in parentheses in the right hand column**

\*where an asterisk is shown, the figure is exact

## DEFINITIONS

In these conditions 'the Company' shall mean VADO a division of Norcros Group (Holdings) Limited, 'the purchaser' shall mean the person, firm or company to whom any quotation is addressed or with whom any contract is made and 'the goods' shall mean the goods and/or services agreed to be sold by the Company to the purchaser.

### 1. QUOTATION AND ACCEPTANCE

- a. All quotations are given and all orders are accepted on these terms which shall apply to the exclusion of and shall override any other terms stipulated or referred to by the purchaser whether in its order or any other document, or in any negotiations or communication or course of dealing established between the Company and the purchaser;
- b. No modification or amendment of these terms or addition thereto shall be effective unless made in writing and signed by a director of the Company.

### 2. DESCRIPTION OF AND STATEMENTS AS TO GOODS

- a. Save where the goods are stated to be sold as complying with a recognised trade or industry standard, all descriptions, specifications, drawings and particulars of weights and dimensions submitted by the Company or otherwise contained in the Company's catalogues, brochures, price lists, quotations and publicity materials are approximate only and the Company shall not be liable for their accuracy unless they are expressly incorporated into the contract in writing;
- b. These terms represent the entire agreement between the Company and the purchaser relating to the goods and such terms supersede and the purchaser shall not place any reliance upon any statements, recommendations and advice whether oral or in writing given (whether before or after the acceptance by the Company of the purchaser's order) by the Company, its servants or agents as to any matter relating to the goods save where such statement, recommendations or advice is given in writing and signed by a director of the Company in response to a specific written request from the purchaser before or at the time of the Company's acceptance of the order.

### 3. PRICES

- a. Prices quoted by the Company are those in effect at the date of quotation. Unless otherwise agreed in writing, the Company reserves the right to increase prices when it accepts the purchaser's order so as to reflect one or more of the following:
  - b. any variation that may have occurred in the costs of labour, materials, suppliers overheads and transport;
  - c. any change in duty, tax, surcharge or levy of any kind whatsoever affecting the sale price of the goods;
  - d. any cost to the Company resulting from delay by the purchaser in giving to the Company information sufficient to enable it to supply the goods or provide the services or resulting from any alteration made at the request of the purchaser in the specification of the goods or in the place to which they are to be delivered or shipped; any extra cost to the Company resulting from the goods being carried at the request of the purchaser by mode of transport more expensive than the Company's normal form of transport.

### 4. PAYMENT

- a. Unless otherwise agreed in writing, the price for the goods will be due and payable on the last business day of the month following delivery;
- b. The Company shall be entitled to charge interest on any part of the price which is not paid in accordance with clause (a) at the rate per annum of 3% above the Base Rate of Lloyds Banking Group from time to time;
- c. Time of payment is of the essence and if the purchaser defaults in punctual payment of the price the Company shall be entitled to terminate the contract and recover the goods at the purchaser's expense without prejudice to any further rights which the Company may have;
- d. Any default in payment of an invoice or an instalment payment on an invoice on the due date shall render the entire balance outstanding on all invoices from the Company to the purchaser immediately payable in full without

delay being made notwithstanding any contrary provisions as to terms of payment in any one or all invoices;

- e. If the purchaser fails to give all instructions reasonably required by the Company and all necessary document, licences, consents and authorities for forwarding the goods or is unable to accept delivery of the goods at the time when the goods are due and ready for despatch or delivery or shall otherwise cause or request delay, the purchaser shall pay to the Company all costs and expenses, including storage and insurance charges incurred or arising from such delay during which, at the Company's absolute discretion if its storage facilities permit, the goods will be stored at the purchaser's sole risk. This provision shall be in addition to and not in substitution for any other payment or damages for which the purchaser may be liable in respect of his failure to take delivery at the appropriate date;
- f. The purchaser shall not be entitled to make any deduction from the price of goods which have been delivered to the purchaser in respect of any set off or counterclaim unless both the validity and the amount thereof have been expressly admitted in writing by the Company and such admission is signed by a director of the Company;
- g. In the absence of any specific appropriation by the purchaser, the Company shall have the right to appropriate any payment made by the purchaser towards the satisfaction of any invoice outstanding from time to time as the Company shall in its absolute discretion think fit.

### 5. DELIVERY

- a. Any time or date stated for delivery is given and intended as an estimate only and the Company shall not be liable for any loss or damage whatsoever resulting from any delay in delivery howsoever arising;
- b. Unless otherwise stated in writing delivery shall be deemed to take place upon the occurrence of the first in time of the following, namely:
  - i. the physical delivery of the goods to the purchaser at the Company's works;
  - ii. the physical delivery of the goods to the purchaser's carrier or agent for the purpose of transmission to the purchaser or his nominee;
  - iii. the physical delivery of the goods to the purchaser's place of business or such other place as he may direct by the Company, its carrier or agent, the purchaser being responsible for unloading;
- c. Signature of the Company's delivery note by any employee, representative or agent of the purchaser shall be conclusive proof of delivery;
- d. Where the contract provides for delivery by the Company, its carrier or agent:
  - i. any claims for non-delivery must be made in writing to the Company within three days of receipt of invoice or advice note whichever is the earlier;
  - ii. any claims in respect of goods damaged in transit or shortages in delivery must be made in writing to the Company within three days of delivery; shortages in delivery shall not give rise to a right to reject the goods delivered;
- e. The Company shall be entitled to make partial deliveries or deliveries by instalments and all the provisions of these terms shall apply to such deliveries;

### 6. PROPERTY AND RISK

- a. Risk in the goods shall pass to the purchaser at the time at which delivery takes place in accordance with clause 5 above and the purchaser shall be solely responsible for insuring the goods thereafter;
- b. The Company shall retain ownership of and title in the goods delivered until full payment has been made in respect of all such goods. Until such time the goods shall be:
  - i. stored separately from other goods in the possession of the purchaser;
  - ii. marked or otherwise rendered identifiable as being the property of the Company;

- i. held by the purchaser as bailee of the Company;
- ii. held by the purchaser free from any charge, lien or other encumbrance;
- a. Provided the Company has not requested their return and notwithstanding that payment in full has not been made for all of the goods delivered, the purchaser as principal and not as agent for the Company shall be entitled to use the goods or offer for sale and sell them in the ordinary course of his business;
- b. Where the purchaser sells the goods prior to paying for them in full:
  - i. the Company shall be legally and beneficially entitled to the proceeds of sale;
  - ii. the purchaser shall hold the proceeds of sale on trust for the Company and shall not mingle them with other monies and shall not pay them into an overdrawn bank account;
- iii. he shall deposit the proceeds of sale in a separate bank account, the location and number of which he has previously notified to the Company, and he shall not be entitled to use or deal with the proceeds of sale until payment in full for the goods has been made to the Company;
- c. The Company shall have the right at any time by its servants or agents to enter the purchaser's premises where the goods are stored, or are thought the Company to be stored, so as to:
  - i. retake possession of the goods when the Company has requested their return and the purchaser has not immediately complied with the request, such retaking or return to be without prejudice to any other rights the Company may have arising therefrom;
  - ii. inspect the storage of the Company's goods which have not been paid for in full;
  - iii. investigate and ascertain whether all these terms are being complied with;

#### 1. GUARANTEE AND LIABILITY

- a. The Company guarantees all goods which have been manufactured by the Company against any defect of work or materials which can be proved to the Company's satisfaction to have been caused before delivery provided that:
  - i. the goods are used for their normal purpose,
  - ii. full details of any such defect are notified to the Company within thirty days of its first appearance and
  - iii. the goods in which the defect arises are returned at the purchaser's expense to the Company;
- b. The guarantee shall be for a period of twelve years from the date of delivery for all product except pumps which are 3 years for Monsoon and 1 year for Showermate and products with any other finish that is not chrome, such as gold, which are guaranteed for 3 years. The liability of the Company shall be limited at its option either to supply replacement goods, which will be supplied subject to these terms, or refunding of the goods;
- c. The Company gives no guarantee in respect of goods not manufactured by it but shall use all reasonable endeavours to procure for the purchaser or assign to the purchaser the benefit of any guarantee obtained by it from the manufacturer or supplier thereof; however the Company shall not be required to commence litigation against such manufacturer or supplier or to incur any expense in connection with any such claim by the purchaser;
- d. The above guarantee is given in lieu of and to the exclusion of all other warranties, conditions, representations and undertakings express or implied by statute or otherwise in respect of the quality or fitness for purpose of the goods or as to their condition or performance or as to any other matter except where such warranty or condition is implied by statute and by reason of a statutory provision, cannot be excluded;
- e. Save as provided herein and save in any case where death or personal injury has been caused by the Company's negligence or any case where the Company is liable for a defect in the goods pursuant to Part 1 of the Consumer Protection Act 1987 or any statutory replacement thereof, the Company shall be under no liability whatsoever to the purchaser for any loss or damage whether direct, indirect or consequential arising out of any defect in, failure of or unsuitability for any purpose of the goods or any part thereof whether the same be due to any act, omission, breach of contract, negligence or wilful default in design, workmanship or materials or any other cause.

#### 2. INDEMNITY AS TO INDUSTRIAL PROPERTY RIGHTS

- a. The purchaser shall indemnify the Company against all loss, damages, costs and expenses suffered or incurred by the Company or to which the Company may become liable as a result of any work carried out in accordance with the purchaser's specification(s) which involves infringement or alleged infringement of a patent, registered design or other industrial property right;
- b. If the purchaser uses or sells the goods in such a manner as to infringe any such rights the company shall not be responsible for such infringement and the purchaser agrees to indemnify the Company from and against all liability arising therefrom.

#### 3. TERMINATION

The Company shall have the right forthwith to cancel the purchaser's order if any of the following events occur and subject to enforcement of the Company's rights to recover the goods and to receive payment of the price or damages, the contract shall be deemed to have terminated:

- a. the purchaser commits any breach of its obligations to the Company;
- b. any distress or execution is levied upon any property of the purchaser;
- c. the purchaser makes or offers to make any arrangement or composition with creditors or commits any act of bankruptcy or insolvency;
- d. any resolution is passed or petition presented to wind up the purchaser;
- e. a receiver or administrator is appointed or any chargee takes possession of all or any part of the undertaking or assets of the purchaser;
- f. the purchaser stops payment or ceases or threatens to cease to carry on its business or to pay its debts as and when they fall due;
- g. any remittance for payment of the whole or any part of the purchase price of the goods is dishonoured by the purchaser's bankers.

#### 4. ASSIGNMENT

The purchaser shall not assign or transfer or purport to assign or transfer any contract to which these terms apply to any other person without the Company's prior written consent. The Company reserves the right to subcontract the performance of the contract or any part of it.

#### 5. FORCE MAJEURE

If the Company is prevented or delayed (directly or indirectly) from making delivery of the goods or any part thereof or from otherwise performing the contract or any part thereof by reason of war, embargo, riot, strike, lock-out, trade dispute, fire, breakdown of plant or machinery, inclement weather, interruption of transport, Government action, delay in delivery to the Company of any goods or materials, or by any cause whatsoever (whether or not of a like nature to the foregoing) outside its control, it shall be under no liability whatsoever to the purchaser and shall be entitled at its option either to cancel the contract or without any liability to extend the time or times for delivery by a period equivalent to that during which such delivery has been prevented.

#### 6. PROPER LAW

The contract and these terms shall be governed by English law and the purchaser shall submit to the sole jurisdiction of the English Courts.



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