

Adjustable BALL FITTINGS

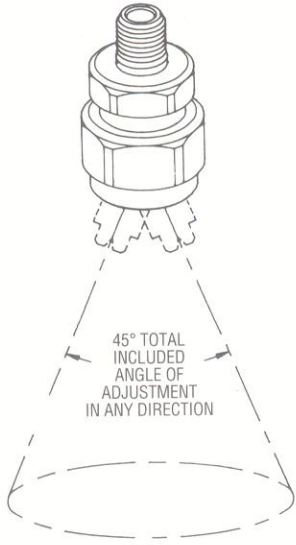
36275

male inlet, female outlet
1/8" - 3/4" NPT or BSPT



DESIGN FEATURES

Adjustable ball fittings provide adjustable positioning of spray nozzles for more exact control of spray direction. They permit accurate pipe alignment and convenient nozzle positioning without disturbing pipe connections. Adjustable ball fittings are available in a wide range of pipe connections. They feature large internal passages



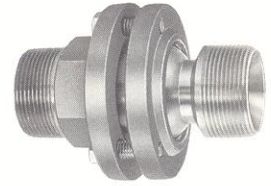
CAST

male inlet, female outlet
1" - 1 1/2" NPT or BSPT



CAST

male inlet, male outlet
1 1/4" - 2 1/2" NPT or BSPT



to minimize clogging and smooth finished sealing surfaces to assure leakproof connections.

The **machined-type** ball fitting features a lock ring that holds the nozzle in position when jarred or subjected to vibration. The fitting has a relatively small diameter for applications requiring a compact size. Its maximum pressure rating is 300 psi (21 bar).

Nozzle removal for cleaning and readjustment is quick and simple.

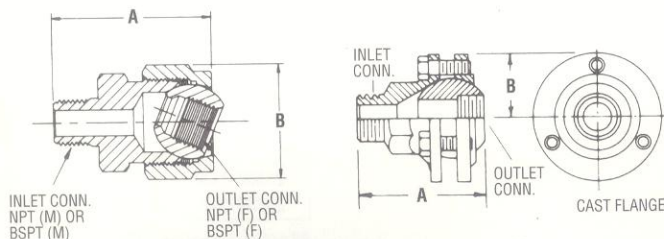
Cast-type fittings feature locking screws that hold the nozzle in position when jarred or subjected to vibration. They are rated for pressures up to 125 psi (9 bar).

DIMENSIONS & WEIGHTS

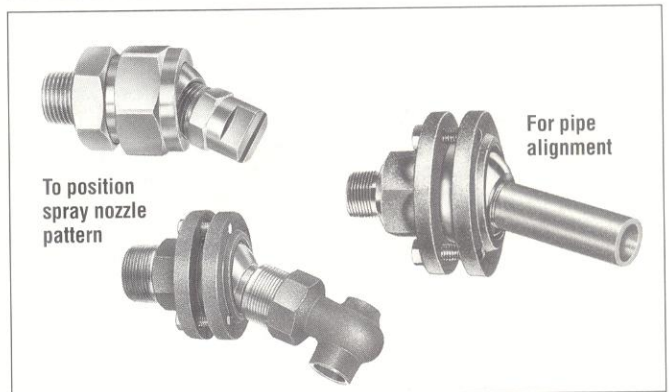
Inlet Pipe Conn. NPT or BSPT	Outlet Pipe Conn. NPT or BSPT	Adjustable Ball Fitting Ordering No.	Type Flanges	DIMENSIONS		Total Included Angle of Adjustment	Net Weight kg
				A Overall Length mm	B mm		
1M	1F	1 x 1	CAST female outlet type	89	46	40°	1.8
1 1/4M	1 1/4F	1 1/4 x 1 1/4		130	46	40°	2.2
1 1/2M	1 1/2F	1 1/2 x 1 1/4		133	46	40°	2.3
1 1/4M	1 1/4M	1 1/4 x 1 1/4M	CAST male outlet type	130	46	40°	2.2
1 1/4M	1 1/2M	1 1/4 x 1 1/2M		127	46	40°	2.2
1 1/2M	1 1/2M	1 1/2 x 1 1/2M		127	46	40°	2.3
2M	2M	2 x 2M		203	79	40°	8.2
2 1/2M	2 1/2M	2 1/2 x 2 1/2M		229	79	40°	8.9

Inlet Pipe Conn. NPT or BSPT	Outlet Pipe Conn. NPT or BSPT	Adjustable Ball Fitting Ordering No.	Material	DIMENSIONS		Total Included Angle of Adjustment	Net Weight kg
				A Overall Length mm	B mm		
1/8M	1/8F	36275-1/8 x 1/8	Brass	34.9	24.6	45°	0.057
1/8M	1/8F	36275-1/8 x 1/8-SS	St. Steel				
1/4M	1/4F	36275-1/4 x 1/4	Brass	39.7	27.8		0.085
1/4M	1/4F	36275-1/4 x 1/4-SS	St. Steel				
3/8M	3/8F	36275-3/8 x 3/8	Brass	45.2	27.8		0.156
3/8M	3/8F	36275-3/8 x 3/8-SS	St. Steel				
1/2M	1/2F	36275-1/2 x 1/2	Brass	56.4	42		0.283
1/2M	1/2F	36275-1/2 x 1/2-SS	St. Steel				
3/4M	3/4F	36275-3/4 x 3/4	Brass	61.1	48.4	0.483	
3/4M	3/4F	36275-3/4 x 3/4-SS	St. Steel				

Call for availability of reducing sizes.



COMMON APPLICATIONS



MATERIAL CODE

36275 Type

no material code = Brass
SS = 303 Stainless Steel

Cast Type

no material code = Brass
I = Cast Iron
SS = 303 Stainless Steel and Cast 316 Stainless Steel

ORDERING INFORMATION

1 x 1 - SS

Inlet Connection Size Outlet Connection Size Material Code

Adjustable ball-type nozzles

COLOR-CODED

Clip-Eyelet[®] TYPE

20570



DESIGN FEATURES

The versatile Clip-Eyelet nozzle system features easy, no-tool installation and removal. The assembly is affixed to the header by a spring-grade stainless steel clamp. It fits 1", 1 1/4", 1 1/2" or 2" pipe with 3/16" (14.3 mm) holes.

The new 37235 adjustable ball-type nozzle combines a threaded pipe connection with an adjustable direction spray tip for application versatility.

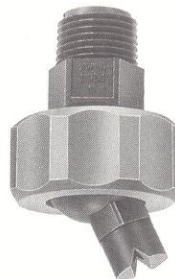
Both nozzles are constructed of polypropylene for excellent chemical and heat resistance up to 180°F (82°C).

The Clip-Eyelet nozzle can handle pressures to 60 psi (4.1 bar), the threaded-type 125 psi (8.6 bar).

For both nozzles, easy identification ball-type, flat and hollowcone spray tips are color-coded by flow rate. The total angle of tip swivel adjustment varies

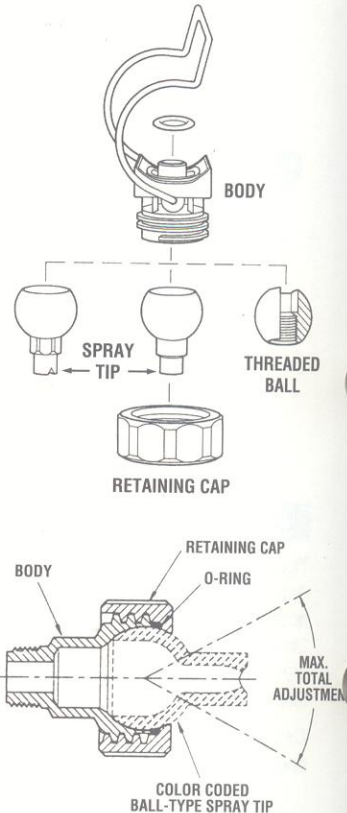
THREADED TYPE

37235



from 42° to 54°. Write for Data Sheets 20570 and 37235.

This threaded ball-type accepts a variety of nozzles with 1/4", 3/8" and 1/2" NPT or BSPT (M) threads. "No-tool" tip and threaded ball removal is quick. The retaining cap unscrews by hand, the ball-tip or threaded ball is removed from the nozzle body, and a new tip is inserted.



COMMON APPLICATIONS

- Metal washing and finishing
- Other low pressure applications

PERFORMANCE DATA

HOLLOW CONE SPRAY TIPS

TIP & VANE SUB-ASSEMBLY NO.	CAPACITY IN LITERS PER MINUTE							SPRAY ANGLE		
	.35 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	0.5 bar	1.5 bar	4 bar
CA15-30.1-PP	6.2	8.8	10.4	12.6	14.5	17.6	20.2	46°	49°	51°
CA25-30.1-PP	7.5	10.7	12.7	15.4	17.6	21.4	24.6	45°	47°	50°
CA50-50.1-PP	13.5	19.0	22.7	27.8	32.0	39.2	45.2	38°	46°	48°
CA50-50.3-PP	13.5	19.0	22.7	27.6	31.8	38.7	44.4	75°	75°	76°

FLAT SPRAY TIPS

CLIP-EYELET TIP SIZES							TIP COLOR	CAPACITY IN LITERS PER MINUTE						
SPRAY ANGLE AT 3 bar								0.3 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar
15°	25°	40°	50°	65°	80°	0.3 bar	0.7 bar							
				CT6510-PP	CT8010-PP	Beige	1.2	1.9	2.3	2.8	3.2	3.9	4.6	
		CT4020-PP	CT5020-PP	CT6520-PP		Lt. Blue	2.5	3.8	4.6	5.6	6.5	7.9	9.1	
	CT2530-PP	CT4030-PP	CT5030-PP	CT6530-PP		Orange	3.7	5.7	6.8	8.4	9.7	11.8	13.7	
		CT4040-PP	CT5040-PP	CT6540-PP	CT8040-PP	Green	5.0	7.6	9.1	11.2	12.9	15.8	18.2	
CT1550-PP		CT4050-PP	CT5050-PP	CT6550-PP	CT8050-PP	Yellow	6.2	9.5	11.4	14.0	16.1	19.7	23.0	
	CT2560-PP	CT4060-PP	CT5060-PP	CT6560-PP	CT8060-PP	Blue	7.5	11.4	13.7	16.7	19.3	24	27	
CT1570-PP	CT2570-PP	CT4070-PP	CT5070-PP	CT6570-PP	CT8070-PP	Red	8.7	13.3	16.0	19.5	23	28	32	
CT15100-PP	CT25100-PP	CT40100-PP	CT50100-PP	CT65100-PP	CT80100-PP	Brown	12.5	19.1	23	28	32	39	46	

Note: No. CT PLUG-PP Optional blank tip is used to replace CA- or CT- tip to shut-off spray nozzle.

Clip-Eyelet Data

CLIP-EYELET NO.	COLOR CODE		TO CLAMP ON
	BODY	CAP	
20570-1-PP	Med. Gray	Lt. Gray	1" Pipe
20570-1 1/4-PP	Med. Gray	Lt. Gray	1 1/4" Pipe
20570-1 1/2-PPB	Black	Lt. Gray	1 1/2" Pipe
20570-2-PPB	Black	Lt. Gray	2" Pipe

Threaded Nozzle Data

Pipe Inlet Conn. NPT or BSPT	Adjustable Ball Type Nozzle No. for Threaded Version
1/4"	37235-1/4-PP
3/8"	37235-3/8-PP
1/2"	37235-1/2-PP

*Not recommended for capacities over 3 gpm (11 l/min) at 40 psi (3 bar).

ORDERING INFORMATION

Clip-Eyelet with tip
Specify Clip-Eyelet no. + tip no.

Clip-Eyelet with threaded ball
Specify Clip-Eyelet no. + ball no.

Threaded Type with Tip
Specify nozzle no. + spray tip no.

Threaded Type with Threaded ball
Specify nozzle no. + ball no.

Threaded Ball:
1/4" outlet connection: CP20582-1/4-PPB
3/8" outlet connection: CP20582-3/8-PPB
1/2" outlet connection: CP20582-1/2-PPB

Optional Seal:
To retrofit headers with 16.7 mm diameter hole:
CP20579-BU SEAL (Buna-N)
CP20579-VI SEAL (VITON)