



CleanAir™ Air Control Equipment

Accessories for superior spray finishing.

Filters • Regulators • Gauges • Valves

DEVILBISS
The Right Way To Finish™



Air control equipment for today's spray finishing challenges

At DeVilbiss, we do more than make the industry's leading atomizing spray guns—we also create the specialty tools and accessories to support them.

So whether you're spray finishing metal or wood, automobiles or appliances, electronics or aerospace, or anything in-between, you can count on DeVilbiss.

We have the products, the experts and the technologies to help you meet spray finishing challenges. Just ask for us by name. Ask for DeVilbiss.

DeVilbiss offers a complete line of quality air filtering units

It's the equipment you need to ensure a contaminant-free material application — because today's high solids and waterbornes are even more sensitive to contaminants. The right filter equipment from DeVilbiss can make all the difference.

The fact is, an otherwise great finish can be totally ruined by just a small amount of dirt, oil or water in your air line. And needless to say, flaws like pinholes, blushing, fisheyes or dulling mean a job has to be redone — a waste of both time and money.

DeVilbiss has what you need to make your finishes nothing but the best. There are six types of filtering units available from DeVilbiss:

- Centrifugal Filter-Regulator Units
- Coalescer Filter-Regulator Units
- All-in-One Filter, Regulator and Coalescer
- Three-Stage Desiccant Unit
- WhirlWind™ In-Line Filter
- Breathable Air Units
(Ask for Sales Bulletin I-2171)

Quality Equipment and Proper Installation

Following some key installation principles will help decrease the risk of contaminants:

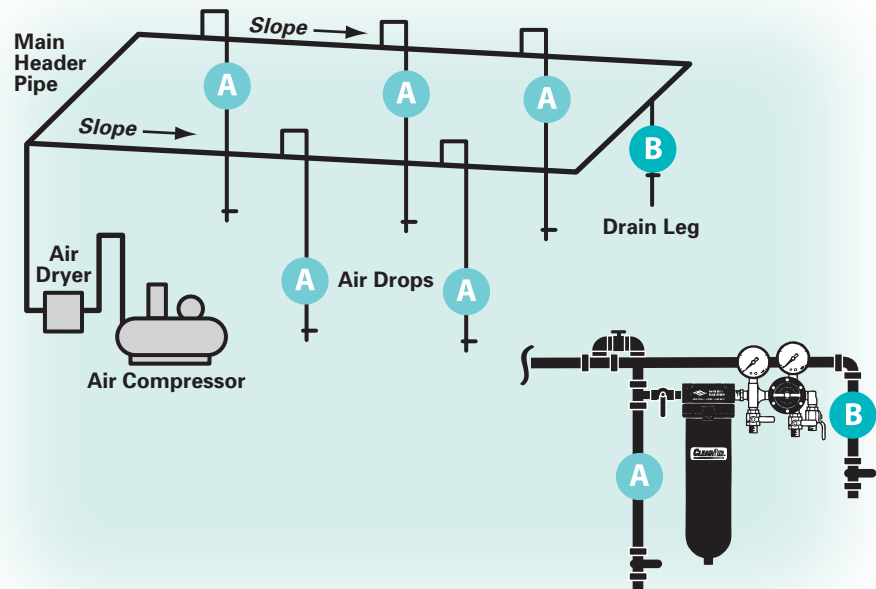
- It's important to use the right size air compressor for your application. An overworked air compressor can produce a significant amount of dirt and oil.
- Proper piping is very important to help prevent condensation from forming within the line and contaminating the air supply.

DeVilbiss is ready to assist you with any questions, just contact our Technical Assistance hotline.

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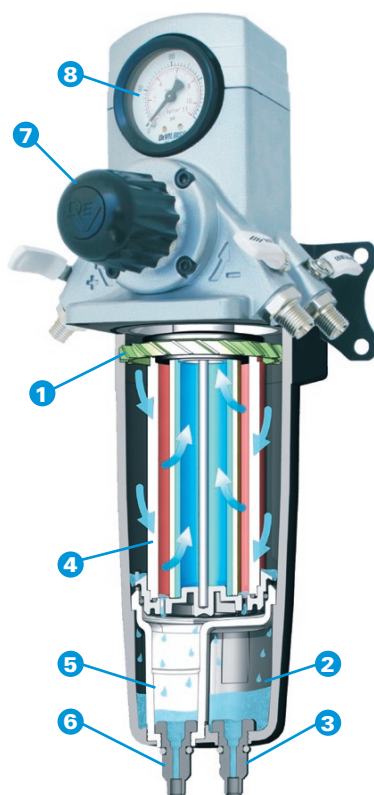
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Recommended Air Supply Setup



A unique product in the finishing market

- FRC-650 All-In-One combines a filter, regulator and coalescer for shop air into one compact unit.
- Four 1/4" NPS (M) ball valves with unrestricted air passages, (three regulated plus one unregulated outlet.)
- Ball valves inclined 45°—avoids kinking of hoses, which increases life span.
- Robust and durable.
- Solvent-resistant filter bowl and body is indispensable in the spray area.
- Solvent- and slip-resistant knob for easy air adjustment.
- Automatic drains at each stage eliminate water build-up—no need to manually drain.



- 1 When the air enters the filter bowl, it is centrifuged by the swirl baffle. This forces the liquid and solid particles toward the walls of the bowl.
- 2 The condensed liquid from the first stage trickles down the walls and accumulates at the bottom of the bowl
- 3 The drain on the right side is used to release the liquid captured in the first stage.
- 4 Next, the air goes through the pre-filter, which traps the remaining residues that accumulate on the coalescing element.
- 5 The liquids condensed between the pre-filter and the coalescing element drip down and collect in the left reservoir.
- 6 The drain on the left side is used to release the remaining liquids from the left reservoir.
- 7 The regulating air knob controls the flow of clean, dry air through the regulating valve.
- 8 When adjusting the regulated air pressure, the automatic relief valve changes the pressure in the 3 outlet air lines to the desired setting.
- 9 The gauge located at the center of the filter bowl indicates the air pressure available at the three regulated outlets.



FRC-650 Specifications

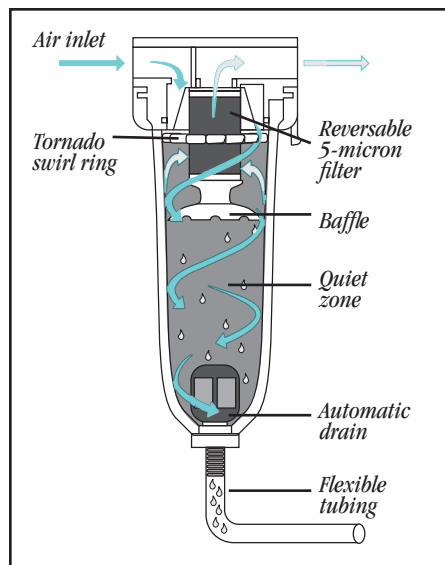
Type of Air Regulation	Diaphragm
Air Inlet Port Size	1/2" Pipe Thread—(1)
Air Outlet Port Size	1/4" NPS (M)—(4)
Regulated Air Outlets	3
Unregulated Air Outlets.....	1
Filtered Line Air Inlet.....	1
Max. Working Temperature	170°F/80°C
Max. Air Inlet Pressure.....	175 psi (12.3 kgf/cm ²)
Regulated Outlet Pressure.....	0–125 psi (0–8.8 kgf/cm ²)
Flow Rate.....	100 cfm
First Stage Filtering Capacity.....	5 micron
Second Stage Filtering Capacity	1 micron
Bowl and Body Construction.....	Aluminum
Drain	Automatic
Service Bulletin	SB-6-377

FRC-650 Spare Parts

Part No.	Description	Comment
FRC-044	Automatic Filter Drain Assembly	Filter Drain, Retainer Nut
K-4100	Knob Assembly	Reg Knob, Cover Piece, Brass Washer, Clip
K-4103	Ball Valve Assembly	Ball Valve Parts, all parts
K-4105	Coalescent Automatic Drain Assembly	Stem & Ring in plastic box, Drain Body
K-4106	Replacement Kit (Filter and Coalescer Elements and O-rings)	Coalescent Element, Filter Element, 3/ea. O-rings
K-4107	Repair Kit	Regulator Cover Piece, Black Seat, Composite Washer, Clip

CleanAir Centrifugal Filter-Regulator Units

Excellent for eliminating moisture and dirt from an air supply



Tornado-like swirling action removes moisture which collects in the baffled "quiet zone." The reusable 5-micron filter catches smaller impurities. Accumulated liquid is carried away by the automatic drain.



Quick-release filter bowl and spin-off 5-micron filter element allow one-minute filter changes without tools. Pressure drops are minimized by large air inlet and outlet and large internal air passages.

DeVilbiss CleanAir centrifugal units supply cleaner, drier air to each spray gun in a system. This cleaner air can also increase the life of pneumatic tools.

- Filters out water and oil aerosols and dirt particulates to 5 microns.
- Ideal for most spray applications, air tools and equipment.
- Water droplets collected in the bowl are removed by an automatic drain (standard feature). No need to manually drain.



HFRL-511
Service Bulletin
SB-6-148



HAF-502
Service Bulletin
SB-6-146



HAF-503
Service Bulletin
SB-6-148



HFRL-505
Service Bulletin
SB-6-152



HFRL-508
Service Bulletin
SB-6-148



HFRL-509
Service Bulletin
SB-6-148

Centrifugal Air Filter Units

PART NO.	HAF-502	HAF-503	HAF-505
Filtering Capacity (micron)	5	5	.01
Flow Rate (CFM)	100 @ 90 psi	150 @ 90 psi	55 @ 90 psi
Max. Inlet Pressure	150 psi / 10.3 bar	150 psi / 10.3 bar	150 psi / 10.3 bar
Max. Operating Temp.	150°F / 65.6°C	150°F / 65.6°C	150°F / 65.6°C
Inlet Port Size	1/2" NPT (F)	3/4" NPT (F)	1/2" NPT (F)
Outlet Port Size	1/2" NPT (F)	3/4" NPT (F)	1/2" NPT (F)
Bowl Capacity	17 oz.	34 oz.	17 oz.
Shipping Weight	1 lb. 7 oz.	3 lbs. 1 oz.	1 lb. 8 oz.
Auto Drain	Std.	Std.	Std.
Service Bulletin	SB-6-146	SB-6-148	SB-6-152

Accessories

Mounting Bracket Assembly Kits

- For HAF-502 air filter and HFRL-508 regulator; order HAF-407. (SB-6-143)
- For HAF-503 air filter, and HFRL-509 and HFRL-511 regulators, order HAF-408. (SB-6-143)

Filter Element Kits (5-Micron reusable)

- For HAF-502 air filter and HFRL-508 regulator; order HAF-6.
- For HAF-503 air filter, and HFRL-509 and HFRL-511 regulators, order HAF-15.
- For HAF-505 air filter, order HAF-28.

Centrifugal Filter-Regulator Units

PART NO.	HFRL-508	HFRL-509	HFRL-511
Filtering Capacity (micron)	5	5	5
Flow Rate (CFM)	60+	80+	120+
Max. Inlet Pressure	150 psi / 10.3 bar	150 psi / 10.3 bar	150 psi / 10.3 bar
Regulated Pressure Range (psi)	0 - 125	0 - 125	0 - 125
Max. Operating Temp.	150°F / 65.6°C	150°F / 65.6°C	150°F / 65.6°C
Inlet Port Size	1/2" NPT (F)	3/4" NPT (F)	3/4" NPT (F)
Regulated Outlets (w/ ball valve)	(1) 1/4" NPS (M)	(2) 1/4" NPS (M)	(4) 1/4" NPS (M)
Non-Regulated Outlets (w/ ball valve)	(1) 1/4" NPS (M)	(1) 1/4" NPS (M)	(1) 1/4" NPS (M)
Bowl Capacity	17 oz.	34 oz.	34 oz.
Air Filter Included	HAF-502	HAF-503	HAF-503
Quantity of Air Regulators/Model	(1) HAR-507	(1) HAR-507	(2) HAR-507
Air Gauges (0 - 100 psi)	1	1	2
Air Gauges (0 - 160 psi)	1	1	1
Shipping Weight	9 lbs.	15 lbs.	18 lbs.
Service Bulletin	SB-6-146	SB-6-148	SB-6-148

Removes water, dirt and oil from the system down to .01 micron

CleanAir coalescer filters remove water, dirt and oil from the system down to .01 micron. Devilbiss coalescer filter units are designed with a quick-release bowl and spin-off element for filter changes without tools. In addition, a filter-change indicator alerts the operator when the element requires changing.

- Borosilicate glass microfiber filter is engineered for high flow, high efficiency, quick change and low pressure drop.
- Ideal for most spray applications, especially where oil aerosols may be a problem.
- Automatic bowl drain and 6' hose eliminate oil and water buildup (standard feature). No need to manually drain.



HAF-508
Service Bulletin
SB-6-143

Accessories

- Mounting bracket assembly kit is available; order HAF-408. (SB-6-143)
- Centrifugal filter element kit has reusable 5-micron filter; order HAF-15.
- Coalescer filter element kit has .01-micron filter; order HAF-38.



HAF-509
Service Bulletin
SB-6-148



HFRL-512
Service Bulletin
SB-6-148



HFRL-513
Service Bulletin
SB-6-148

Centrifugal-Coalescer Filter Units

NON-REGULATED MODELS	HAF-508 COALESCER*	HAF-509 CENTRIFUGAL & COALESCER
Centrifugal Filtering Capacity (micron)	5	5
Coalescer Filtering Capacity (micron)	.01	.01
Flow Rate (CFM)	150 @ 90 psi	150 @ 90 psi
Max. Inlet Pressure (psi)	150	150
Max. Operating Temp.	150°F	150°F
Inlet Port Size	3/4" NPT (F)	3/4" NPT (F)
Outlet Port Size	3/4" NPT (F)	3/4" NPT (F)
Bowl Capacity	34 oz.	34 oz.
Shipping Weight	3 lbs. 2 oz.	6 lbs. 3 oz.
Service Bulletin	SB-6-148	SB-6-148

Coalescer-Filter Regulator Units

REGULATED MODELS	HFRL-512	HFRL-513
Centrifugal Filtering Capacity (micron)	5	5
Coalescer Filtering Capacity (micron)	.01	.01
Flow Rate (CFM)	80+	120+
Max. Inlet Pressure (psi)	150	150
Regulated Pressure Range (psi)	0 - 125	0 - 125
Max. Operating Temp.	150°F	150°F
Inlet Port Size	3/4" NPT (F)	3/4" NPT (F)
Regulated Outlets (w/ ball valve)	(2) 1/4" NPS (M)	(4) 1/4" NPS (M)
Non-Regulated Outlets (w/ ball valve)	(1) 1/4" NPS (M)	(1) 1/4" NPS (M)
Bowl Capacity	34 oz.	34 oz.
Quantity of Air Regulators/Model	(1) HAR-507	(2) HAR-507
Air Gauges (0 - 100 psi)	1	2
Air Gauges (0 - 160 psi)	1	1
Shipping Weight	18 lbs. 2 oz.	21 lbs. 2 oz.
Service Bulletin	SB-6-148	SB-6-148

* HAF-508 coalescer filter should be used in conjunction with a centrifugal type filter to remove the majority of water, oil and dirt, prior to the coalescer filter.

CleanAir Three-Stage Desiccant Unit

Provides the ultimate in clean dry air

The three-stage desiccant unit provides the ultimate in clean dry air. First stage centrifugal filter removes particulates to 5 microns. Stage two coalescer filters down to .01 micron. Third stage desiccant removes remaining water vapor to a dew point of -40°F.

- Ideally suited for low to medium production.
- DAD-500 air-drying system includes three filtering units, as well as a wall mount bracket and desiccant filter change indicator.
- Centrifugal and coalescer units include automatic bowl drain (standard feature). No need to manually drain.
- Coalescer filter includes filter change indicator.
- Desiccant filter includes sight glass indicator (Changes color when desiccant needs replacement).



DAD-500* Desiccant Air Drying System

DESICCANT SYSTEM UNITS	DAD-500 AIR DRYING SYSTEM*
Air Inlet	1/2" NPT (F)
Air Outlet	1/2" NPT (F)
Max. Operating Pressure (psi)	150
Replacement Filters/Desiccant	DAD-1 •
Service Bulletin	SB-6-156
Air Flow Capacity (cfm)	25

- * Includes HAF-502, HAF-505 and HAR-507.
• Shipping weight approximately 10 lbs.

DAD-504

- Converts DAD-500 into a breathing air source
- Charcoal filter for hydrocarbon and odor removal
- 28 CFM breathing air regulator. Includes all necessary fittings
- Can be used with up to four DeVilbiss Air Vizors
- Automatic drain
- Refer to Service Bulletin SB-6-176

Air Vizor™

Breathable air systems and filtration units



Order No. Model No.	Belt Regulator and Hood Assembly	Breathable Air Hose (30')	No. of Visor Covers Included	Filtration Unit Included	Filtration Description
MPV-625	Yes	No	2	None	—
MPV-650	Yes	Yes	12	DAD-504	Desiccant Retrofit System
MPV-651	Yes	Yes	12	DAD-503	3 Stage Filtration with Desiccant Air Dryer System
MPV-652	Yes	Yes	12	HAF-601	3 Stage Filtration System



DAD-503

- Converts shop air into clean, dry, contaminant-free air for breathing systems and spray operations
- 5 micron particulate filter (Stage 1)
- .01 micron coalescing filter (Stage 2)
- Charcoal filter for hydrocarbon and odor removal (Stage 3)
- 28 CFM breathing air regulator
- Desiccant system removes water vapor for spray gun (rated for 25 CFM maximum flow)
- 60 CFM spray gun regulator
- Automatic drains (Stages 1, 2 and 3)
- Can be used with up to four Air Vizors
- 1/2" NPT inlet
- Refer to Service Bulletin SB-6-159



HAF-601

- Converts shop air into clean, contaminant-free air for breathing systems and spray operations
- 5 micron particulate filter (Stage 1)
- .01 micron coalescing filter (Stage 2)
- Charcoal filter for hydrocarbon and odor removal (Stage 3)
- 28 CFM breathing air regulator
- 60 CFM spray gun regulator
- Automatic drains (Stages 1, 2 and 3)
- Wall-mount bracket
- Can be used with up to four Air Vizors
- 1/2" NPT inlet
- Refer to Service Bulletin SB-6-132

*Air Vizor™ requires proper air line filtration and carbon monoxide (CO) monitoring to complete an approved supplied air respirator. See descriptions at right for proper air line filtration.

A carbon monoxide (CO) monitor may be purchased locally or from ENMET Corporation: (734) 761-1270 (phone). Order form F-1073-B available from DeVilbiss upon request.



The filtration units above are only one part of a complete breathable air system. These must be combined with a supplied air respirator and Grade D breathable air. A carbon monoxide (CO) monitor must also be used.

Air Control Accessories

CleanAir Air Regulators

HAR Air Regulators

General purpose regulators for line takeoff use or as integral regulators on pumps, pressure tanks and other air operated devices. Require separate trap or filter in air line to remove moisture or dirt.

- Unique three position, non-rising adjusting knob.
- Removable plug and cap.
- All metal body; durable Delrin® cap and knob; Buna N diaphragm and disc.
- Accurate regulator mechanism provides precision air control.
- Self-relieving design.
- Both main line and regulated outlets available from same units.



HAR-507

HAR-501* Air Regulator

Extra Sensitive regulator for use with precision control on pressure feed tanks or other dead-end applications. Can be used to control atomization pressure for one spray gun.

- Self-relieving regulator.
- Tough, reinforced Buna N diaphragm for extended service life.
- 100 mesh stainless steel strainer.
- Removable bottom plug for easy service.
- Forged brass body and stainless steel or brass internal parts for long service.
- High ratio of diaphragm surface to orifice area provides stable uniform regulation.

CleanAir Tank Regulator Conversion Kits

- QMS-436** 100 psi gauge, DM Nipple, HAR-507 Regulator
- QMS-4003** 150 psi gauge, 1/4" NPT Street Tee, 1/4" NPS(m) x 1" Swivel, Ball Valve, No Regulator
- QMS-4006** 150 psi gauge, 3/8" Bushings, Swivel Adapter, Ball Valves, HAR-511 Regulator
- QMS-4007** 150 psi gauge, 100 psi gauge, DM Nipple, 3/8" Bushings, Swivel Adapter, Ball Valves, HAR-507 Regulator, HAR-511 Regulator
- QMS-4010** 30 psi gauge, 3/8" Bushings, 1/4" NPT Male Branch Tees, Swivel Adapter, Safety Valve, Ball Valves, HAR-501 Regulator

MODEL	MAXIMUM CAPACITY CFM	REGULATED PRESS. RANGE PSI	MAX. AIR INLET PRESS. PSI	MAX. OPERATING TEMPERATURE °F	DIMENSIONS H" X W"	WEIGHT LBS.	MAIN AIR INLET PORT SIZE	MAIN LINE OUTLET PORT SIZE	REGULATED OUTLETS PORT SIZE
HAR-535	40	0 - 125	250	120°	4-7/8 x 2-3/8	1-1/8	1 3/8" NPT (F)	1 1/4" NPT (F)	1 3/8" NPT (F)
HAR-555	40	0 - 125	250	120°	4-7/8 x 2-3/8	1-1/8	1 3/8" NPT (F)	2 1/4" NPT (F)	1 1/2" NPT (F)
HAR-507	60	0 - 125	250	150°	4-7/8 x 3	1-1/2	1 3/8" NPT (F)	-	3 1/4" NPT (F)
HAR-511	60	0 - 125	150	150°	6-1/2 x 3	2	1 3/8" NPT (F)	2 1/4" NPT (F)	1 1/4" NPT (F) 1 3/8" NPT (F)
HAR-501*	15	0 - 20	250	120°	6 x 4-1/2	2-1/4	1 3/8" NPT (F)	-	1 3/8" NPT (F)

* Extra-sensitive regulator for precise control on pressure tanks and other dead-end applications.

WhirlWind™ In-Line Filter HAF-507-K12

The WhirlWind disposable in-line filter attaches to the base of the spray gun or air tool to remove any remaining water, oil, dirt and rust from the air line. This high-quality, high-flow, solvent-resistant air filter has a very low pressure drop and has a floating filter that automatically adjusts for changing air conditions.



- Air is swirled to trap droplets, then filtered to absorb remaining particulates.
- Multi-layer design extends life, so unit lasts up to 40% longer than other filters.
- Perfect for use with HVLP guns, WhirlWind provides 55% more air flow than other filters.

HOUSING MATERIAL	PACKAGING	THREADS	MAXIMUM OPERATING PRESSURE	OPERATING TEMPS.	PRESSURE DROP @ 80 PSI w/ 20 SCFM	LIQUID CONTAMINANT	SERVICE BULLETIN
Solvent-resistant Delrin® plastic	12 filters per dispenser carton	1/4" NSP (M) inlet 1/4" NSP (F) inlet	125 psi	50°F - 110°F	2 psi	1.5 fl. oz.	SI-8-10-1

GA Pressure Gauges



For accurate pressure readings, standard gauges are made from rust-resistant materials and include glass covered dials. Can be used in any location where conditions of vibration or rough service exist.

GA-77 gauge is very accurate in low pressure range and ideal for critical pressure adjustments. Calibrated in ounces from 0 to 10 lbs.; in pounds from 10 to 30 lbs.

MODEL	SCALE	TYPE	THREAD	DIAMETER	INLET
GA-73	0 - 30 psi 0 - 2 bar	Air, Fluid	1/4" NPT (M)	2"	Bottom
GA-77	0 - 30 psi 0 - 2 bar	Air, Fluid	1/4" NPT (M)	3-1/2"	Bottom
GA-288	0 - 160 psi 0 - 11 bar	Air, Fluid	1/4" NPT (M)	2"	Bottom
GA-313	0 - 15 psi 0 - 1 bar	Air	1/8" NPT (M)	1-1/2"	Bottom
GA-316	0 - 160 psi 0 - 11 bar	Air	1/4" NPT (M)	2"	Back
GA-338	0 - 160 psi 0 - 11 bar	Air	1/8" NPT (M)	1-1/2"	Back
GA-355	0 - 30 psi 0 - 2 bar	Air, Fluid	1/8" NPT (M)	1-1/2"	Bottom

Air Regulator Lockout HAR-400

This device allows the painter to set their air regulators to guarantee proper atomization, as well as to assure compliance in areas where air cap pressure is limited to 10 psi or less. Includes one key per unit.



Air (Ball) Valves

MODEL	DESCRIPTION	MAX. OPERATING PRESSURE	MATERIAL
VA-527	3/8" NPS (M) x 3/8" NPT (M)	500	Stainless Steel
VA-528	3/8" NPS (M) x 3/8" NPT (F)	500	Stainless Steel
VA-540	3/8" NPS (M) x 3/8" NPT (M)	500	Brass
VA-542	1/4" NPS (M) x 1/4" NPT (M)	500	Brass

Sales and Service
Through a Nationwide Network of Industrial Distributors



www.grupoequipa.com



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