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System Components

STAINLESS STEEL CHECK VALVES



Combining the best features of durability and positive sealing, these unique valves are constructed throughout of 316 Series Stainless Steel for the high corrosion resistance essential in the chemical, processing and power generating industries.

PTFE seat seal for positive bubble-tight sealing (with gas) from cryogenic to 375° F (190°C) temperatures. Seals also available for radioactive environments, or up to 500°F steam. Can be furnished without soft seat for higher temperature steam service.

Sizes 1/4" through 1" use a ball, and for reduced inertia, the larger sizes (1-1/4", 1-1/2" and 2") use a poppet. Cracking pressure is 1-4 psi.

Larger valves can be furnished for flange mounting to customer specifications on special quantity orders. Consult factory.

Semi-soft means the check ball or poppet initially seats on the PTFE, but after the PTFE deflects a slight amount, the ball or poppet comes to rest against the metal seat so the PTFE does not have to absorb the full load of the high pressure.

Internal passages have flow capacity equal to or greater than double extra heavy pipe of the same size that would be required to carry the rated pressure (see CV factor in chart below).

Typical of good Haskel design is the removal of springs from the flow path. The larger spring is outside the flow and simply provides a preload for the disk. The smaller spring, inside the cage, actuates the ball or poppet but the flow, which is routed through the cage windows, misses the spring entirely. This is why the valves will stand extremely high shock loads and have been tested at rapid high shock up to 2 million cycles without failure.

MODEL	NPT-SIZE	DIMEN	ISIONS	MINIMUM	CV	MAX. WORKIN @ 375°	IG PRESSURE F Max.	ALL MODEL
NUMBER	optional al extra cost)	A	B	ORIFICE	CV	HYDRAULIC	GAS	
28201	1/4"	2-1/2"	13/16*	.156"	.44	15,000 psi	10,000 psi	
56790	3/8"	2-7/8"	1"	.250*	1.10	15,000 psi	10,000 psi	PETE DISK
28303	1/2"	3-1/8	1-1/8"	.344*	2.10	15,000 psi	10,000 psi	CAGE
28624	3/4"	3-1/4"	1-3/8"	.486*	4.20	15,000 psi	10,000 psi	
28400	1"	4-1/4"	1-3/4"	.540"	5.20	12,000 psi	8000 psi	
54080	1-1/4"	4-5/8"	2-1/4"	.900*	14.50	7500 psi	6000 psi	
53520	1-1/2"	5-1/2"	2-3/4*	1.045"	19.60	6000 psi	5000 psi	



For oxygen service, add -10 after model no. (e.g., 28303-10) 5000 psi maximum.

AIR PILOT SWITCHES





Remote Air Adjusted "Remoteset""

- 4 models
- · Sensing pressures to 60,000 psi
- Air valve* 3-way normally closed, 2-way normally closed, normally open

OT SW

C. 3-WAY

HASKEL INC.

EANK. CALIF USA

STABLE RANG

STYLE C

Internally Adjusted

- 34 models
- Sensing pressures to 60,000 psi
- Air valve* 3-way normally closed, 2-way normally closed, normally open

Description

An Air Pilot Switch is a pressure switch. These units produce a pneumatic signal up to 150 psi at any sensing pressure within their adjustment range. The signal valve may be piped normally open, normally closed*, 3-way or 2-way depending on model.

All models use a 2-position poppet-type air signal valve which is shifted from its normal position by a rod from the sensing end which first must overcome an adjustable force spring (styles A and C) or air-regulated dome loader (style B).

Applications

- Direct automatic start/stop control of any Haskel pump, gas booster, air amplifier or indirectly to the drive of any pump or compressor sensing either output or suction (schematics 1 & 2)
- Valve actuators (schematic 5)
- · Pneumatic alarm signals
- Replace an explosion-proof pressure switch in hazardous applications (schematic 6)

* Air valve terminology is the reverse of an electrical switch. Closed means no flow; open means flow.

Application Schematics



1. Maximum output pressure control, spring adjusted



3. Maximum output pressure control remote, air adjusted



5. Process valve control



2. Minimum suction pressure control, spring adjusted



4. Wide deadband control with two adjustable air pilot switches plus a two-position valve



Electric pump/motor control where standard pressure switches are unsuitable at pump output

A word about "deadband"

Users often try to compare the on-off action of the air signal with the action of an electrical switch. They are not really comparable. The air switch has no "snap-over" mechanism required with an electric switch to prevent arcing. Therefore, "on" or "off" before or after a dead tight seal condition can be quite subjective. In other words, if the air pilot switch is turning on a device that not only requires a miniscule leak to start, it will start much sooner than some other larger device that may need a flow of air to start. Therefore, it is not possible to publish precise deadband data such as that available for most electric pressure switches.

Style B Remoteset units have the lowest and most consistent deadband (5% - 10% of set pressure) because there is no heavy coil spring to compress.

Styles A and C may vary from 5% to as high as 40% depending on model and the application details.

In some applications a wider than normal deadband is needed. Schematic 4 illustrates how to provide this with two air pilot switches and a simple 2-position air valve.

AIR PILOT SWITCHES — SELECTION CHARTS



STYLE	MODEL I	NO. ING PORT	MAXIMUM SENSING		ADJUSTABL FACTORY SETTIN (Specify if Increas	E RANGE PSI G AT NO CHARGE ing or Decreasing)	APPRO DIMEN (inc	XIMATE ISIONS hes)	POI	RTS
STILL	LIQUID OR GAS	DXYGEN GAS	PRESSURE (PSI)	AITVALVL	NORMALLY OPEN	NORMALLY CLOSED	LENGTH	OUTSIDE DIA.	AIR (2)	SENSING (3)
	51940-1 51940-2 51940-3	-11 -12 -13	10,000 Standard 5000 Oxygen	(1)	2000 - 10,000 700 - 4400 200 - 950	3500 - 10,000 1200 - 4800 500 - 1300	8			1/4" NPT
A	52160-1 52160-2 52160-3	N/A	25,000	3-Way. May be piped N.C. or N.O. or 2-Way N.C. or N.O.	6000 - 11,000 8000 - 25,000 3000 - 8500	7000 - 12,000 10,000 - 25,000 4000 - 9500	8-5/8	2	1/8" NPT	1/4" Super- pressure
	52180-1	-11	10,000 Standard 5000 Oxygen		60 - 240	150 - 300	7-5/8			1/4" NPT

_										RATIO
D	55792	N/A	25,000	3-Way. May be piped	4500 - 23,400 with 20-100 Dome Load. Nominal Ratio 245:1	8-3/4			1/4" Super- pressure	245:1
D	55796	N/A	600	N.C. or N.U. or 2-Way N.C. or N.O.	135 - 530 with 20-100 Dome Load. Nominal Ratio 6:1	7-1/2	4-1/4	1/8' NPT	1/4" NPT	6:1



Notes:

- SAFETY: When using N.O. models to limit pump output pressure, also include a backup relief valve. (Ref. schematics 1, 3, 4, 6, page 5.)
- (2) AIR VALVE: Materials are Aluminum, Stainless Steel, Bronze, and Buna suitable for air and most gases. Modification available for sour natural gas to meet NACE SPEC. MR-01-75.
- (3) SENSING SECTIONS: Materials are Stainless Steel, PTFE, Buna (with Viton or Silicone for Oxygen) suitable for most liquids or gases. Modification available for sour natural gas and fire-resistant hydraulic fluids.

	MODEL	NO.	MAXIMUM		ADJUSTABLI FACTORY SETTIN	E RANGE PSI G AT NO CHARGE	APPRO DIMEN	XIMATE ISIONS	POI	RTS
STYLE	SERVICE SENS LIQUID OR GAS	ING PORT OXYGEN GAS	SENSING PRESSURE (PSI)	AIR VALVE	NORMALLY OPEN	NORMALLY CLOSED	LENGTH	OUTSIDE DIA.	AIR (2)	SENSING (3)
	28755-1 28755-2 28755-3 28755-8	-11 -12 -13 -18	10,000 Standard	3-Way N.C.		1500 - 10,000 300 - 3500 150 - 700 800 - 9500	5-11/16	1.0/0	1/8" NPT (Vent not Threaded)	
	28791-1 28791-2 28791-3 28791-4	-11 -12 -13 -14	5000 Oxygen	(1) 2-Way N.O.	2500 - 10,000 750 - 4000 250 - 750 2000 - 8500		6-1/8	1-3/0	1/4" NPT Out 1/8" NPT In	1/4 NP1
	28974-24	N/A	25.000	3-Way N.C.		6000 25 000				
	28974-25	IWA	20,000	2-Way N.C.		0000 - 25,000	0		1/8" NPT	
	28974-59	NIA	60.000	3-Way N.C.		20.000 60.000			(Vent not Threaded)	1/4" Super-
C	28974-60	N/A	(Intermittent)	2-Way N.C.		20,000 - 60,000	0	2		pressure
U	29074-25		25,000	(1)	6000 - 25,000				1/4" NPT Out	
	29074-60	N/A	60,000 (Intermittent)	2-Way N.O.	20,000 - 60,000		8		1/8" NPT In	
	55230-1 55230-3	-11 -13		3-Way N.C.		12 - 37 17 - 200	6-1/2	0.40	1/8" NPT (Vent not Threaded)	
	55416-1 55416-2	-11 -12	600	Pipe either (1) 3-Way N.C. or 2-Way N.O.	13 -47 28 - 200	13 - 47 28 - 200	7	2-1/8	1/4" NPT N.O. 1/8" NPT Others	1/4" NPT
	56650-1 56650-2	-11 -12	10,000 Standard 5000 Oxygen	3-Way N.C.		50 - 180 110 - 900	6-5/16	1-3/8	1/8" NPT (Vent not Threaded)	

AIR OPERATED DIRECTIONAL CONTROL AND RELEASE VALVES



These directional control valves are basically a family with common characteristics and benefits.

- They are seated poppet or ball design for virtually zero leakage at high pressures with low viscosity fluids. They are not "bubble-tight" on gas.
 - Note: Normally open models will generally hold a tighter seal on low viscosity liquid or gas because seating force does not depend on inlet pressure.
- They are directly air-actuated for ideal system compatibility in wet ar hazardous areas, or when used with air driven pumps or boosters. Yet, if electronic or electrical control is preferred, they can be actuated with any of the

wide selection of subminiature 3-way solenoid air valves available from many manufacturers.

- They employ the same basic area ratio principle used in Haskel pumps enabling high forces to be easily and directly controlled from low-pressure plant main or instrument air.
- Although not normally considered for pressure control, all of the normally open 2-way models can do double-duty in a circuit by also providing a safety relief function simply by installing a small air regulator in their pilot line (schematics next page).

AIR PILOTED VALVES — TYPICAL APPLICATIONS



AIR PILOTED VALVES — SELECTION CHARTS

TYDE	NORMAL	SCHEMATIC	MODEL	DEMARKO.	NOMINAL Area Ratio	MAXIMUM INLET WITH	CV	PORT SIZES A PRESSU	ND MAXIMUM Res, PSI	MATERIALS
ITFE	POSITION	WITH APPROXIMATE WEIGHT AND SIZE	NUMBER	REIMARKS	FOR Actuation	100 PSIG Air Pilot	(MIN.)	P, C or B	T or A	(LIQUID Section)
	Closed		50135	Closed crossover Dual C porting	150:1	10.000 psi	P to C .42	1/4" NPT	3/8° SAE Tube	Plated Steel,
	libsed	Weight: 5-3/4 lbs,	50135-1	Same as above and includes manual override	150:1	10,000 psi	C to T .64	10,000	3000	Buna N
3-WAY	-		53430-4		85:1	8500 psi	.3			
	Open		53430-5	Open crossover	50:1	5000 psi	.6	1/4" NPT	1/4" NPT	Stainless
	Open	P C 4 1-5/8"	53430-6	 Rated for plain water 	40:1	4000 psi	.8	15,000	3000	Buna N, PTFE
		4" Weight: 1 lb.	53430-7		150:1	12,000 psi	.t			

 AIR PILOT PORTS: 150 PSI MAXIMUM ALL MODELS
 NPT
 54416, 53430, 53585, 28940, 53581 (C)

 1/4" NPT
 50135, 53560, 53581 (D)

ТҮРЕ	NORMAL Position	SCHEMATIC WITH APPROXIMATE WEIGHT AND SIZE	MODEL NUMBER	REMARKS	NOMINAL Area Ratio For Actuation	MAXIMUM Inlet with 10d PSIG Air Pilot	CV (MIN.)	PORT SIZES A PRESSU P, C or B	ND MAXIMUM RES, PSI T or A	MATERIALS (LIQUID Section)
			28940	 2-stage decompres- sion and release Rated for plain water 	250:1 (1st stage)	15.000 psi	1st stage -	1/2" NPT	1/2" NPT	Stainless Steel, Buna N, PTFE
	Closed	4-7/8" 4-7/8"	28940-1	 2-stage decompres- sion and 	9:1 (2nd stage)		2nd stage = 1.50	15,000	10,000	Plated Steel, Buna N,
		7" RELEASE VALVES MODELS 28940 and 28940-1 Weight: 2-3/4 lbs. MODELS 53581 - Weight: 5 lbs.	53581	release	150:1 (1st stage) 12:1 (2nd stage)	6000 psi	1st stage - .4 2nd stage - 5.5	1" NPT 6000	3/4" NPT 500	PTFE
		RELEASE VALVE MODEL 53585 Weight: 1 lb.	53585	 Single-stage release Rated for plain water 	110:1	10,000 psi	đ	1/4" NPT 10,000		
			54416 54492-1		55:1	5000 psi	.6			
2-WAY		P	54416-1 54492	 Rated for plain water 	120:1	11,000 psi	.25	1/4" NPT		
		RELEASE VALVE MODEL 54416	54416-2 54492-2	 54492 is needle type allowing flow 	160:1	15,000 psi	.15	15,000	1/4' NPT	Stainless Steel,
		Weight: 1 lb	54416-3	in either direction	90:1	7800 psi	.32		3000	Aluminum. Buna N
			54416-4		300:1	25,000 psi	.08	1/4" super- pressure 25,000		
	Open	1 3" 7-7/8" ₽	57175-30	 Rated for plain water Needle type 	600:1	30,000 psi	.15	1/4" super- pressure 30,000		
		RELEASE VALVE MODEL 57175 - Weight: 5 lbs.	57175-60	allows flow in either direction	1200:1	60,000 psi	.09	1/4" super- pressure 60,000		
			53560-12	Designed for mount-	25:1	2500 psi	5.5	1/2" NPT 3000	5/8°Dia.	Plated Steel,
		RELEASE VALVE MODEL 53560 - Weight: 2 lbs.	53560-150	ing inside tank	160:1	15,000 psi	.85	1/4° NPT 15,000	Vent Hole ATM	Aluminum, Buna N

REGULATING RELIEF VALVES



These valves were originally developed in response to the need for accurate regulation of high pressure at low flow without the "chatter" often encountered with valves of this size. They are differential area poppet design with a high ratio between seal and seat area for smooth control, repeatability and low deadband between crack and reseat pressure.



The configuration also makes the control settings virtually unaffected by downstream outlet pressure. This enables the valves to be also used for back pressure control (upstream pressure controller) or as a sequence (priority pressure) valve.

Materials of construction options seen in the chart of model numbers provide selections for most liquids including plain water plus most industrial gases including pure oxygen. Note that the nylon insert seat models are recommended for all gas applications below 10,000 psi. The 15700 series valves for service up to 60,000 psi are normally used as safety valves at these pressures. Although not rated as bubble tight, they do an excellent job holding high-pressure gas due to their precision poppet and hardened stainless steel seat with heavy silver plating.

Flow capacity is ultimately determined by the seat orifice and its CV rating as listed in the chart of models. The following curves show the typical effect of the .070" seat orifice as flow increases from the point at which the valve is set to relieve.



MODEL	SERVICE	PRESSURE RANGE	PORT	S		MATERIAL		ORIFICE	DATA
NUMBER			PRESSURE	OUTLET	BODY	SEAT	SEAL	DIA.	CV
15570-1	Liquid	300 - 3000 psi	1/4" NPT	1/4' NPT	Alum.	St. Steel	Buna-N	.070"	.12
15570-2	Liquid	600 - 6000 psi	1/4" NPT	1/4' NPT	Alum.	St. Steel	Buna-N	.070"	.12
15570-3	Liquid	1000 - 10,000 psi	1/4" NPT	1/4' NPT	Steel	St. Steel	Buna-N	.070"	.12
15670-1	Gas or Liq.	300 - 3000 psi	1/4" NPT	1/4" NPT	Alum.	Nylon	Buna-N	.070"	.12
15670-2	Gas or Liq.	600 - 6000 psi	1/4" NPT	1/4" NPT	Alum.	Nylon	Buna-N	.070"	.12
15900-1	Gas or Liq.	30 - 300 psi	1/4" NPT	1/4" NPT	Alum.	Nylon	Buna-N	.156"	.58
15900-2	Gas or Liq.	75 - 750 psi	1/4" NPT	1/4" NPT	Alum.	Nylon	Buna-N	.156"	.58
15901-1	Liquid	30 - 300 psi	1/4" NPT	1/4° NPT	Alum.	St. Steel	Buna-N	.296°	2.09
15901-2	Liquid	75 - 750 psi	1/4" NPT	1/4° NPT	Alum.	St. Steel	Buna-N	.296"	2.09
15960-1	Liquid	300 - 3000 psi	3/8" NPT	3/8" NPT	Alum.	St. Steel	Buna-N	.187"	.83
15960-2	Liquid	150 - 1500 psi	3/8" NPT	3/8" NPT	Alum.	St. Steel	Buna-N	.187"	.83
15700-25	Liq./Gas **	2500 - 25,000 psi	1/4" S.P.*	1/4" NPT	St. Steel	St. Steel	Buna-N	.070°	.12
15700-26	Liq./Gas **	2500 - 25,000 psi	1/4" S.P.*	1/4" S.P.*	St. Steel	St. Steel	Buna-N	.070°	.12
15700-60	Liq./Gas **	10,000 - 60,000 psi	1/4" S.P.*	1/4" NPT	St. Steel	St. Steel	Buna-N	.070°	.12
27741-1 27741-2 27741-3 27741-4 27741-4 27741-11 27741-12	Liquid Liquid Gas or Liq. Gas or Liq. Oxygen Oxygen	300 - 3000 psi 1000 - 10,000 psi 300 - 3000 psi 1000 - 10,000 psi 300 - 3000 psi 500 - 5000 psi	1/4" NPT 1/4" NPT 1/4" NPT 1/4" NPT 1/4" NPT 1/4" NPT	1/4" NPT 1/4" NPT 1/4" NPT 1/4" NPT 1/4" NPT 1/4" NPT	St. Steel St. Steel St. Steel St. Steel St. Steel St. Steel	St. Steel St. Steel Nylon Nylon Nylon Nylon	Viton/PTFE Viton/PTFE EPR/PTFE EPR/PTFE Viton/PTFE Viton/PTFE	.070* .070* .070* .070* .070* .070*	.12 .12 .12 .12 .12 .12 .12

* Superpressure ** Not bubble-tight on gas service

MODELS 15570, 15670, 15900, 15901 & 27741







TO ORDER WITH ADJUSTING SCREW (NO KNOB)



FOR MODELS	ORDER
15570-1, 2, 3	27560-XX
15670-2, 2	28440-XX
27741-1, 2, 3, 4, 11, 12	28580-XX

MODEL 15700



HYDRAULIC ACCUMULATORS AND GAS RECEIVERS



HYDRAULIC ACCUMULATORS

Hydraulic Accumulators for use with Haskel high-pressure hydraulic pumps. Will store large amounts of energy. Suitable for mineral base oils and DC-200 silicon oil. Suitable seals can be furnished on special order for phosphate-ester base liquids.

Each accumulator is proof tested to twice its maximum working pressure. To increase oil storage capacity, Haskel gas receivers can be connected to gas end of accumulators. Always precharge with nitrogen (not air).

Materials: Heat treated chromoly steel; barrel painted on outside, unplated inside; ends nickel plated; pistons are high-strength aluminum; seals are Buna-N with PTFE backups.

GAS RECEIVERS

Gas Receivers are designed for use with Haskel gas booster compressors and as backup gas storage for Haskel accumulators. Suitable for non-corrosive gases (helium, argon, nitrogen, etc.). Oxygen service on special order only, 5000 psi maximum. Not rated for hydrogen.

Each receiver is proof tested hydrostatically to twice its working pressure and tested for gas leakage at maximum working pressure. (This proof test exceeds both ASME and D.O.T.-3AA requirements.)

Since high-pressure gas storage vessels are critical and particularly susceptible to inside flaws, each barrel is carefully honed inside to remove all inclusions and flaws after magnetic inspection.

Materials: Heat treated chromoly steel; nickel plated inside and outside. Seals are Buna-N with PTFE backups.

MAXIMUM		ACCUMULATOR	5		RECEIVERS		OUTSIDE		SUPER-
PRESSURE (PSI)	MODEL Number	OIL VOLUME	APPROX. WEIGHT	MODEL Number	ACTUAL DISPLACEMENT	APPROX. WEIGHT	DIAMETER	LENGTH	PRESSURE Port Size*
	15801-1 15801-2	366 cu. in. 820 cu. in.	163 lbs. 270 lbs.	15542-1 15542-2	443 cu. in. 897 cu. in.	154 lbs. 261 lbs.	5-3/4*	39° 71°	9/16*
10,000	15806-1	185 cu. in.	57 lbs.	15706-1	210 cu. in.	54 lbs.	3-3/4*	36'	
	15811-1 15811-2	16 cu. in. 31 cu. in.	11 lbs. 14 lbs.	15711-1 15711-2 15711-3	21 cu. in. 36 cu. in. 66 cu. in.	10 lbs. 13 lbs. 22 lbs.	2-3/8°	13-1/8' 19-7/8' 32-1/4'	3/8"
	15802-2	841 cu. in.	449 lbs.	15545-2	890 cu. in.	444 lbs.	5-3/4"	94"	9/16"
20,000	15807-1	122 cu. in.	82 lbs.	15707-1	134 cu. in.	81 lbs.	3-3/4"	39"	3/8*
	15812-1 15812-2	16 cu. in. 31 cu. in.	13 lbs. 20 lbs.	15712-1 15712-2 15712-3	20 cu. in. 35 cu. in. 65 cu. in.	13 lbs. 19 lbs. 32 lbs.	2-3/8°	14-3/4" 23-1/4" 40-1/4"	1/4"

NOTE: SINCE THESE ACCUMULATORS AND RECEIVERS ARE LESS THAN 6" O.D., ARE NOT WELDED AND DO NOT EXCEED 1/2 CU. FT. DISPLACEMENT, THEY DO NOT REQUIRE ASME CERTIFICATION.

* Available with pipe thread - special order

FILTERS

Particle filters — 5 micron nominal

These units are designed as the final protection with gas boosters handling purified gases, or liquid pumps handling pre-filtered clean liquids. The elements do not have sufficient area to be practical for more than occasional particle migration due to pump wear or improperly cleaned piping or containers. They have proven to be good insurance particularly on high-pressure gas systems.

- · Filtration: 5 micron nominal
- · All stainless steel barstock
- Pressure drop:
 - 25 psi @ 3 gpm MIL-H-5606 oil across paper element.
 - 10 psi @ 100 scfm gas at 3000 psi across stainless steel element







28700 SERIES

1/4" NPT PORTS

1/4" SUPERPRESSURE PORTS

MODEL NUMBER	SERVICE	MAXIMUM RATED OPERATING PRESSURE	ELEMENT
28700-1	Gas/Liquid	30,000 psi	St. Steel
10700 1	Gas	6000 psi	Ct. Ctool
20/20-1	Liquid	8000 psi	51. 51001
28728-2	Liquid	8000 psi	Paper
28728-10	Oxygen	5000 psi	St. Steel

PLENUM CHAMBERS



Used in air amplifier and gas booster assemblies to dampen pulsation between stages.



MODEL NUMBER	VOLUME	WORKING PRESSURE	PROOF PRESSURE	LENGTH	DIAMETER	WEIGHT
17843	25 cu. in.	1400 psi	2800 psi	20"	1-1/2"	4 lbs.
27826	20 cu. in.	5000 psi	10,000 psi	23*	1-1/2"	7 lbs.
56950	100 cu. in.	1250 psi	2500 psi	24"	2-3/4"	12 lbs.

6000 PSI GAS STORAGE CYLINDER

- Manufactured and certified to DOT-E-9909-6000 specifications for 6000 psi gas at 70°F
- Actual volume: 2640 ACI (1.53 ACF).
- Capacities @ 6000 psi:
 - Air-509 SCF. N2-494 SCF
 - AR-581 SCF. He-525 SCF
- One-piece forged and heat-treated alloy steel construction
- Primed and orange-yellow painted exterior with stainless steel port adapter
- · Nominal dimensions: 9.28" O.D. x 52" high

MODEL	PORT	WEIGHT
13687-9-20SS	3/8" MS16142-6	
13687-9-80SS	3/8" Superpressure	189 lbs.
13687-9	3/4" NPT	

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