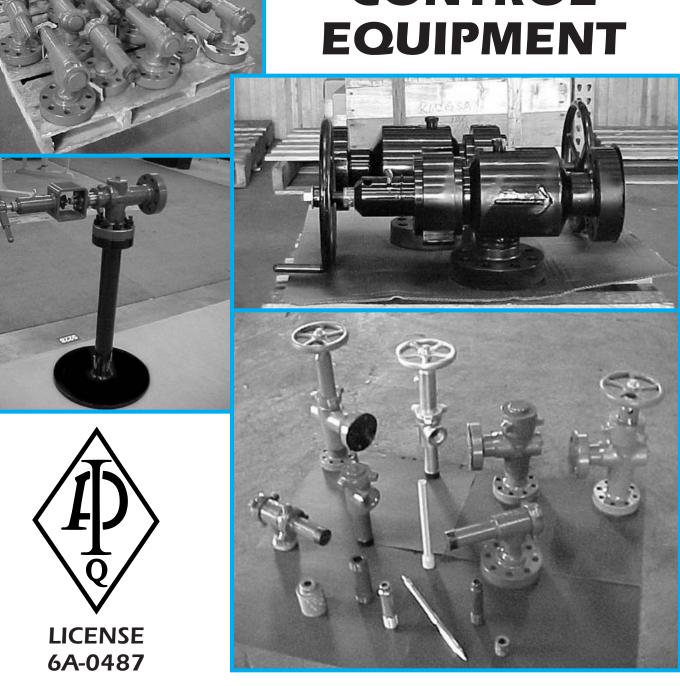
- PRODUCT CATALOG 2003-





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Houston Oilfield Equipment, Inc.'s objective is to manufacture quality products at competitive prices. The company offers chokes of actual OEM dimensional standards as well as those of custom dimensions. All manufacturing is accomplished with the use of modern CNC equipment and tooling. In addition to choke assemblies, parts for many types of chokes are also manufactured here.

The company employs a quality system which is approved by the American Petroleum Institute under License #6A-0487. Products with ABS and DNV certification may also be provided upon request.

Houston Oilfield Equipment, Inc. has full capabilities of satisfying all of your manufacturing needs.

- CHOKE SELECTION INFORMATION -

SPECIFICATIONS

Type: Positive and Adjustable Body Design: Angle Type End Connections: 1" LPT, 2" LPT Flanged RTJ and RF Union Ends Design Pressure: 2000 PSI CWP 3000 PSI CWP 5000 PSI CWP 10,000 PSI CWP 15,000 PSI CWP Trim Sizes: 1/2", 3/4", 1", 2" Trim Materials: Alloy Steel, Stellite Stainless Steel, Inconel Stainless Steel Tungsten Carbide

FEATURES AND BENEFITS

- Hammerlug bonnet & cap connections
- Forged Steel bodies Alloy and 410 SS
- Choice of end connections
- Available H2S Service (NACE MR-01-75)
- Easily converted in field
- Choice of trim materials
- Choice of orifice sizes
- Grease fittings on Adj. Model Bonnets
- Thumb screw for "locking" stem
- 1/2" NPT test port on flanged models
- FMC and H2 profile centerline dimensions
- Easy to read indicator in 64ths inch
- Readily available parts
- Low Maintenance

With so many choices, selection of the proper choke for the job does not have to be difficult. Turn to Houston Oilfield Equipment, Inc. for prompt customer service and a quality manufactured product.

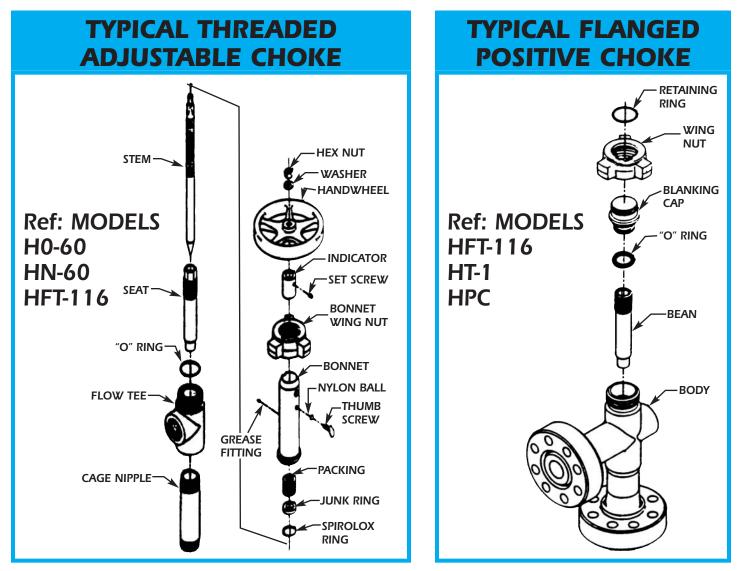
Houston Oilfield Equipment, Inc. is recognized throughout the oil and gas industry as a manufacturer of quality choke products. Our company produces choke assemblies of the FMC and H2 type profiles which are fully interchangeable with those of other manufacturers of the same. This design is a time proven one which has been employed in many types of service within the industry.

Our line of chokes is ideally suited for a broad range of applications. These include wellheads, production manifolds, well testing, choke and kill manifolds, and well clean-up operations.

Chokes may be ordered in both positive and adjustable models. Each model utilizes a hammerlug type connection which facilitates the quick changing of flow beans and trims. In addition, each choke is easily converted from positive to adjustable or adjustable to positive while the choke body remains installed in the line. This means more time working and less time waiting as replacement parts are readily available from your local supply store.

Your selection of materials for choke bodies include alloy steel and 410 stainless steel. All FMC profile flanged models employ bodies of forged steel construction with integral flanges while fabricated versions are also available. The standard materials used for our threaded bodies are forged alloy steel with carbon steel also available upon request.

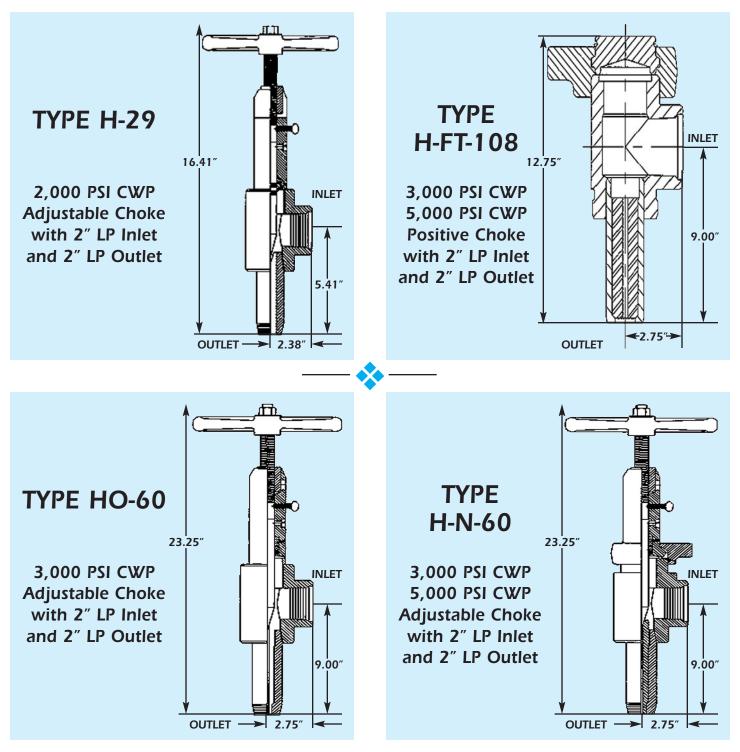
--- POSITIVE AND ADJUSTABLE CHOKES-



HOW TO ORDER CHOKES

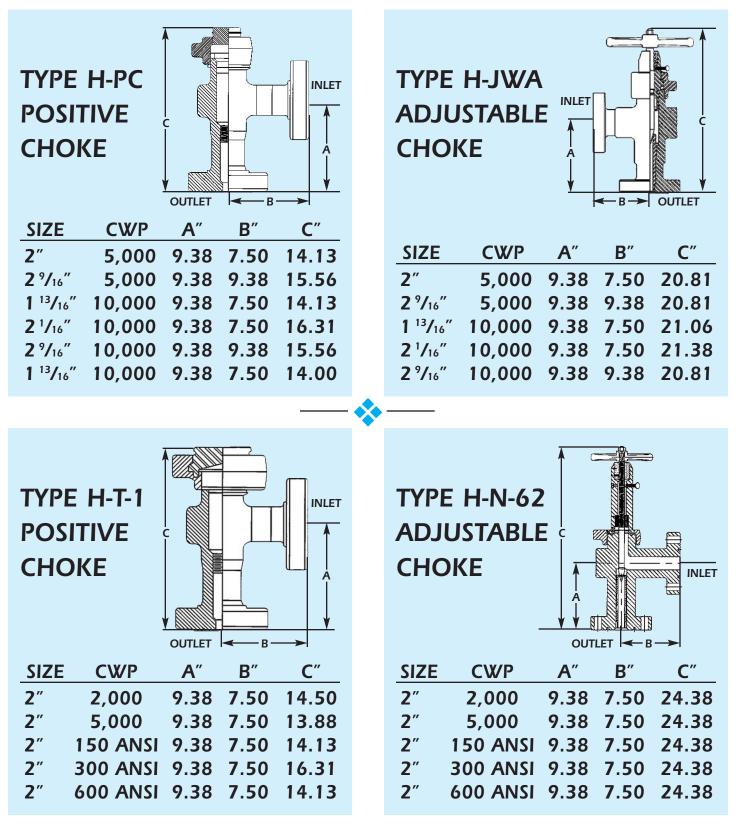
- 1. Type of Choke Positive or Adjustable.
- 2. Specify Working Pressure.
- 3. Type of Inlet and Outlet Connections; Size and Pressure Rating.
- 4. Specify Trim Size (Orifice Required).
- 5. Trim Material Alloy Steel, Tungsten Carbide, Inconel, Stellite, SS.
- 6. Specify Heater Choke if applicable.

NOTE: Beans for Positive Chokes are not furnished with assemblies and must be ordered separately.



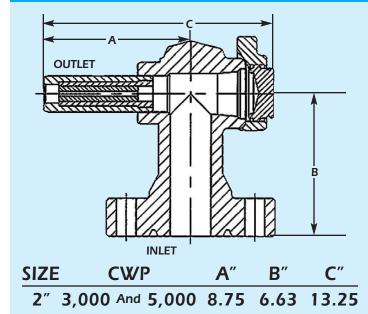
H-29 and H-O-60 not acceptable for H2S service H-FT-108 & H-N-60 also available with 1" LP connections and 3/4" or 1" trim NOTE: Positive Chokes not furnished with flow beans, must order separately.

-FLANGED CHOKE ASSEMBLIES

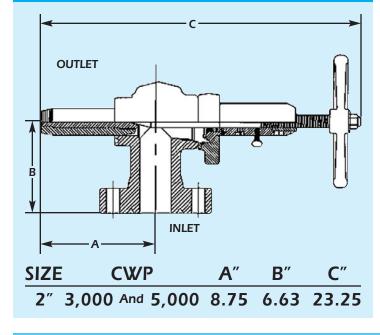


-FLANGED CHOKE ASSEMBLIES FMC PROFILE

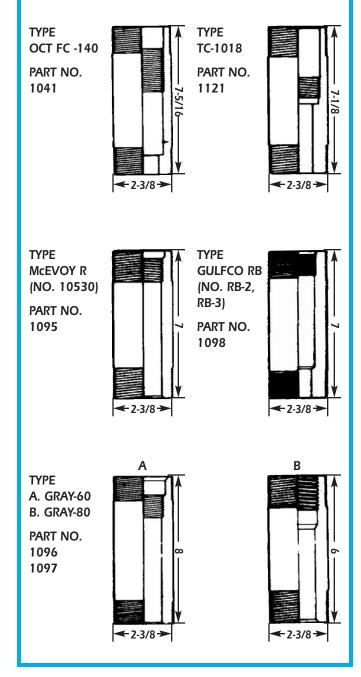
TYPE H-FT-116-F POSITIVE CHOKE



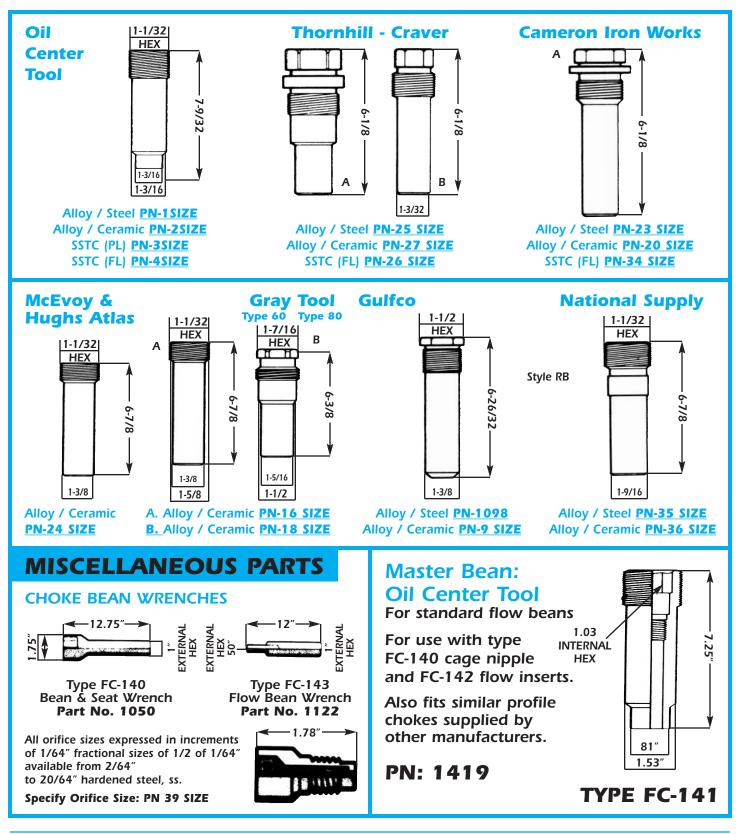
TYPE H-FT-116-F ADJUSTABLE CHOKE



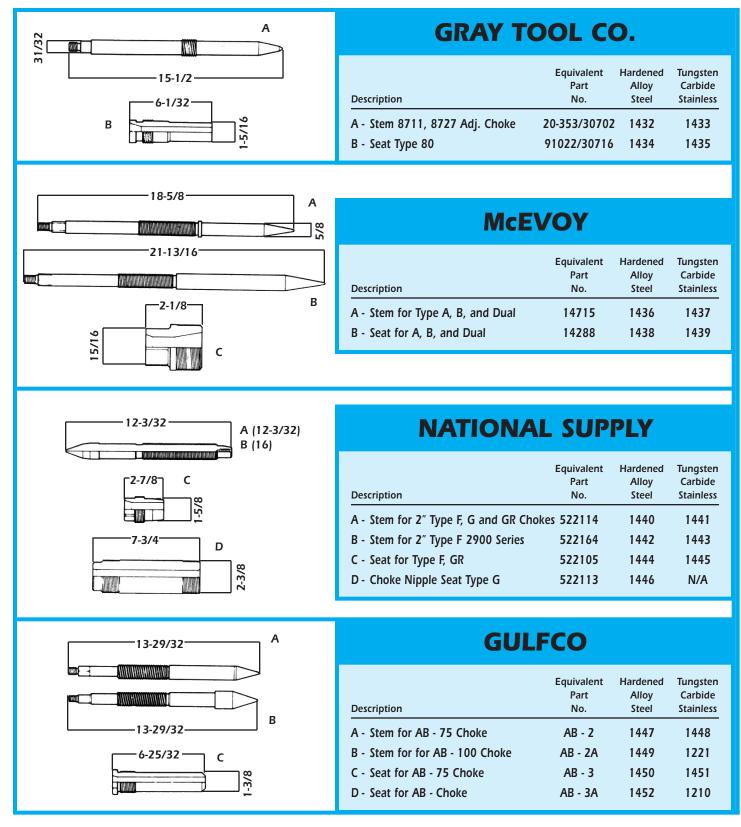
CAGE NIPPLES POSITIVE AND ADJUSTABLE CHOKES



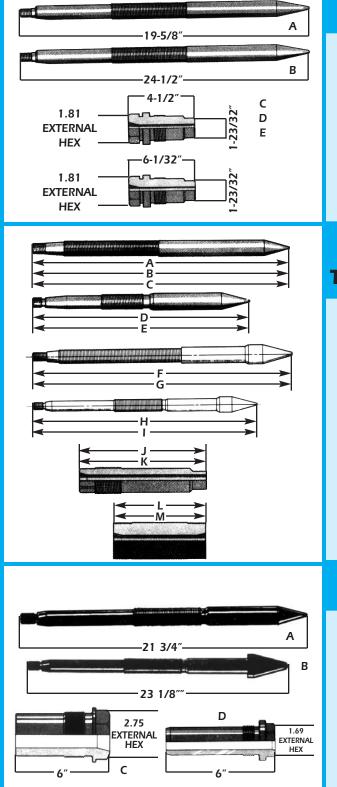
-POSITIVE FLOW BEANS-



-PARTS FOR ADJUSTABLE CHOKES-



-PARTS FOR ADJUSTABLE CHOKES-



THORNHILL-CRAVER TYPE

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Description	Hardened Alloy Steel	Tungsten Carbide Stainless
A- Stem - Adjustable Wing Valve Choke	1100	1099
B- Stem - Long Nose Heater Choke	1102	1101
C- Seat - 3,000 & 5,000 PSI CWP Chokes, 1/2" Orifice	1106	1103
D- Seat - 3,000 & 5,000 PSI CWP Chokes 3/4" Orifice	1107	1104
E - Seat - 3,000 & 5,000 PSI CWP Chokes 1" Orifice	1108	1105
F - Seat - 10,000 PSI CWP Choke, 1/2" Orifice	1125	1112
G- Seat - 10,000 PSI CWP Choke, 3/4" Orifice	1116	1113
H- Seat - 10,000 PSI CWP Choke, 1" Orifice	1117	1114

OIL CENTER TOOL TYPE THREADED & FLANGED BODY CHOKES

Description	Over All Length	Orifice Size	Hardened Alloy Steel	Tungsten Carbide Stainless
A- Stem HO-60, HN-60, HT-116-F 3-5,000 CWP	16 3/4″	3/4″	1018	1028
B- Stem H-N-62, 2-5,000 CWP	18″	3/4″	1059	1061
C- Stem H-29 2,000 CWP	14 3/32″	3/4″	1002	N/A
D- Stem H-JWA 5-10,000 CWP	14 15/32	3/4″	1068	1070
E - Stem H-JWA 15,000 CWP	19 1/8"	3/4″	1455	1456
F - Stem H-O-60, HN-60, HFT-116F 3-5,000 CWP	16 3/4"	1″	1027	1029
G- Stem H-N-62 2-5,000 CWP	18″	1″	1060	1062
H- Stem H-JWA 5-10,000 CWP	14 15/16	′ 1″	1068	1070
I - Stem H-JWA 15,000 CWP	19 1/8″	1″	1457	1458
J - Seat Type N & H-JWA	8 1/4″	3/4″	1030	1032
K- Seat Type N & H-JWA	8 1/4″	1″	1031	1033
L - Seat Nipple H-O-60	6″	3/4″	1025	N/A
M- Seat Nipple H-29	4″	3/4″	1014	N/A

H2 CAMERON TYPE

Description	Stainless Steel	Tungsten Carbide Stainless
A - Stem - 1" f/3" H2	2034	1460
B - Stem - 2" F/3" H2	1509	1427
C - Seat - 1" F/3" H2 Long	2035	1459
*D - Seat - 1" F/2" H2	1655	1203
Seat - 2" F/3" H2 Long	2028	1594
Seat 2" F/3" H2 Short (3.30" Length)	1514	1429
*Requires adapter for use in 3" & 4" H2	2	

-HEATER CHOKE —

The low cost HEATER CHOKE with quality and a time proven design.



SPECIFICATIONS

End Connections: 2" threaded Socket Weld Butt-Weld

Trim Sizes: 1/2", 3/4", 1" Body Design: Angle Type, Long Nose Trim Materials: Alloy Steel SS Tungsten Carbide Design Pressure: 6500 psi cwp

7800 psi cwp 10,000 psi cwp

NOTE: STEM SEATS AVAILABLE W/.500, .750, 1.00 DIAMETER BORES

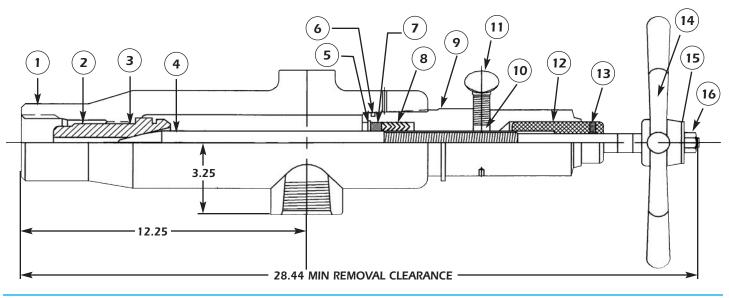
.500 DIAMETER - PART NO. 1106 .750 DIAMETER - PART NO. 1107 1.00 DIAMETER - PART NO. 1108

- When you select a 6500 psi ECONOMY HEATER CHOKE from Houston Oilfield Equipment, Inc. you can be assured of high quality at a very competitive price. Our long nose Heater Choke is manufactured to the most rigid specifications with special emphasis on safety and reliability. It is built upon a time proven design that has been employed by both end users and fabricators in countless trouble-free installations.
- The function of a Heater Choke is to expand the high pressure gas within the tubing coils of an indirect fired heater. The coil attaches to the choke at its outlet end which is immersed in the water bath of the heater. The resultant generation of heat minimizes the extreme refrigerating action which will occur as the high pressure gas expands.
- Get more value for your dollar when you specify the 6500 psi ECONOMY HEATER CHOKE from Houston Oilfield Equipment, Inc.

FEATURES AND BENEFITS

- Threaded bonnet with O-ring
- Available in NACE (MR-01-75)
- Safety pressure relief vent in body
- Choice of end connections
- Body A-487-4A with high tensile and yield strengths
- Interchangeable with Thornhill Craver Economy Heater Choke
- Upgradeable to 7800 psi cwp

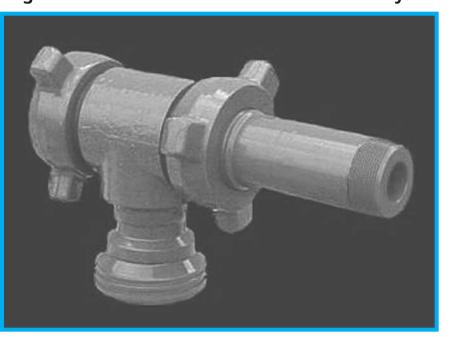
MARK	NAME OF PART	PART NO
1	BODY 2" LPT (TC-4373)	1163
2	SEAT, 3/4 HS	1107
3	SEAT GASKET (TC-1016)	1165
4	STEM, HS (TC-899)	1102
5	RETAINER RING (TC-959)	1161
6	O-RING, BUNA	1160
7	JUNK RING (TC-895)	1144
8	STEM PACKING (TC-896)	1143
9	BONNET, ALLOY STEEL	1158
10	NYLON BALL	1004
11	THUMB SCREW (TC-529)	1162
12	INDICATOR 3/4" (TC-530)	1417
13	SET SCREW F/INDICATOR	1007
14	HANDWHEEL	9000
15	WASHER, FLAT 5/8"	1023
16	HEX NUT 5/8"	1043



POSITIVE AND ADJUSTABLE CHOKES WITH REMOVABLE HAMMER WING UNION CAGE NIPPLE ASSEMBLY

HOE, Inc. is pleased to announce the arrival of its removable wing union cage nipple assembly. This assembly may be fitted to any existing HN-60 adjustable choke or HFT-108 positive choke assembly. It employs the same time proven hammer nut design which is used extensively throughout the oil and gas industry. In fact, the hammer nut is interchangeable with the ones currently being used to secure the bonnet and blanking cap. On the removable wing union assembly the hammer nut secures the cage nipple to the body outlet end. This allows the cage nipple to be changed in a minimal amount of time with only the

use of a simple shop hammer. Say farewell to the often tedious job of removing a threaded type cage nipple and re-installing with a new one. Choke beans and seats can now be changed much quicker which means less down time and increased production. Consider this on your next requirement for an HN-60 adjustable choke or HFT-108 positive choke assembly. You will be glad you did.



SPECIFICATIONS

Type: Positive and Adjustable

End Connections: Threaded, Butt Weld

Design Pressure: 5M CWP

Service Type: H2S or Standard

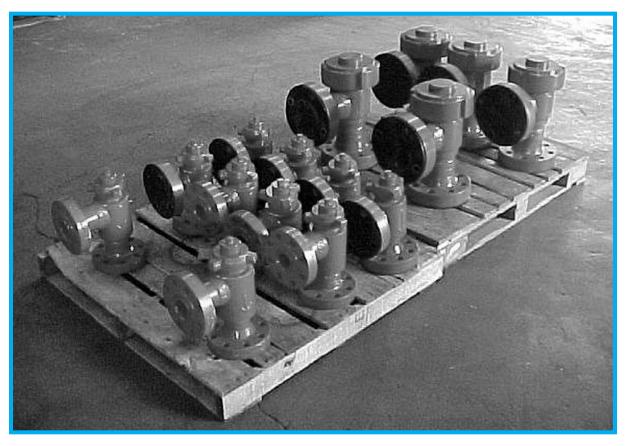
Materials: Alloy, Stainless Steel

Trim Sizes: 3/4", 1"

FEATURES AND BENEFITS

- Uses standard HN-60 Hammer Nut Forged Steel
- Minimal down time for change-out
- Simple conversion from conventional assembly
- No special tools needed
- Field weldable materials
- Readily available spare parts
- Forged steel tee body

-TYPE H-H2 POSITIVE AND ADJUSTABLE CHOKES-

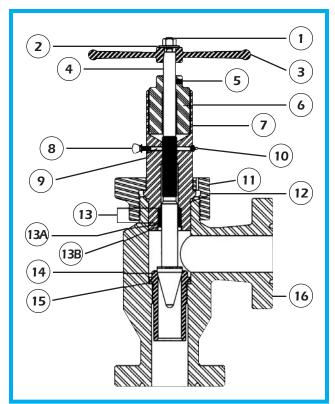


The type H H2 Choke from Houston Oilfield Equipment features the needle and seat design to allow fully adjustable flow. The adjustable choke is operated by rotating the handwheel in order to obtain a desired flow rate, or a specified downstream pressure. The H H2 is also available in a positive or fixed orifice design. In this model a flow bean is installed in the choke to achieve the desired flowing conditions.

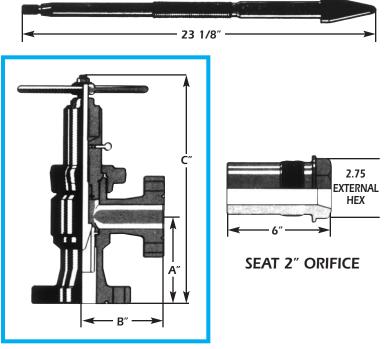
SPECIFICATIONS

Type: Positive and Adjustable
Body Design: Angle Type
End Connections: Flanged RTJ and RF Threaded Union Ends
Design Pressure: 2000 PSI CWP 3000 PSI CWP 5000 PSI CWP 10,000 PSI CWP 15,000 PSI CWP
TRIM SIZES: 3/4", 1, 1 1/2", 2"
TRIM MATERIALS: Alloy Steel, Stellite Stainless Steel, Inconel Stainless Steel Tungsten Carbide

— TYPE H-H2 ADJUSTABLE CHOKES MAX 2" ORIFICE



STEM 2" ORIFICE



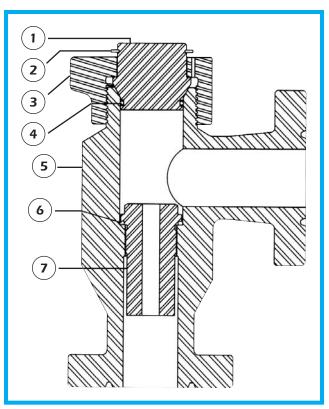
TYPE H-H2 ADJUSTABLE CHOKES MAX 2" ORIFICE

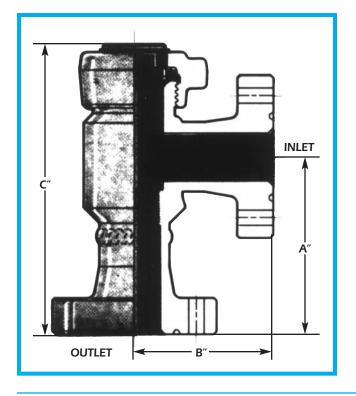
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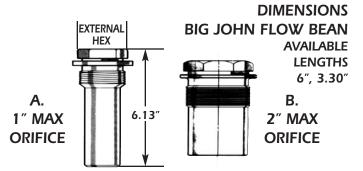
FLANGE SIZE	CWP	Α″	Β″	C ″
3″	3,000 API	11.38	8.88	30.00
3″	5,000 API	11.38	8.88	30.00
3 1/16″	10,000 API	11.75	10.38	30.25
4 1/16″	10,000 API	11.50	9.94	30.12
3″	600 ANSI RTJ	11.38	8.88	30.00

PARTS H-H2 ADJUSTABLE CHOKES MAX 2" ORIFICE

			PART
ITEM	DESCRIPTION	OTY.	NUMBER
1	Hex Nut	1	1024
2	Flat Washer	1	1023
3	Handwheel	1	1521
4	Stem HS 2"	1	1530
	Stem SS 2"	1	1590
	Stem SSTC 2"	1	1427
5	Set Screw	1	1535
6	Indicator 2"	1	1483
7	Bonnet	1	1510
8	Thumbscrew	1	1529
9	Nylon Ball	1	1004
10	Grease Fitting	1	1013
11	Hammer Nut 5M	1	1511
	Hammer Nut 10M	1	1512
12	O-Ring	1	1528
13	Packing	1	1505
13A	Junk Ring	1	1614
13B	Retaining Ring	1	1484
14	Seat HS 2"	1	1513
	Seat SS 2"	1	1514
	Seat SSTC 2"	1	1429
15	Seat Gasket	1	1464
16	Body, Flanged 3" 5M	1	1516
	Body, Flanged 3" 10M	1	1517
*17	Seat Wrench	1	1474
	*Sold Separately – Not	Picture	d







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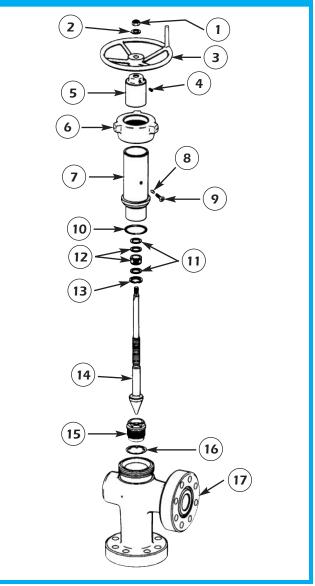
TYPE H-H2 POSITIVE CHOKES MAX 2" ORIFICE

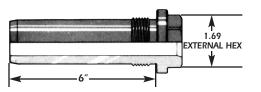
FLANGE SIZE	СШР	Α″	Β″	C ″
3″	3,000 API	11.38	8.88	18.50
3″	5,000 API	11.38	8.88	18.50
3 1/16″	10,000 API	11.75	10.38	18.75
4 1/16″	10,000 API	11.50	9.94	18.69
3″	600 ANSI RTJ	10.00	7.50	17.12

PARTS H-H2 POSITIVE CHOKES MAX 2" ORIFICE

			PART
ITEM	DESCRIPTION	OTY.	NUMBER
1	Blanking Cap	1	1475
2	Retaining Ring	1	1562
3	Hammer Nut 5M	1	1511
	Hammer Nut 10M	1	1512
4	O-Ring, Nitrile	1	1462
5	Body, Flanged 3" 5M	1	1516
	Body, Flanged 3" 10M	1	1517
6	Seat Gasket	1	1464
*7	Flow Bean HS	1	41 <u>SIZE</u>
	Flow Bean SSTC	1	40 <u>SIZE</u>
*8	Bean Wrench	1	1474
*Items 7 and 8 are sold separately.			

TYPICAL 2000 THROUGH 10,000 PSI ADJUSTABLE CHOKES





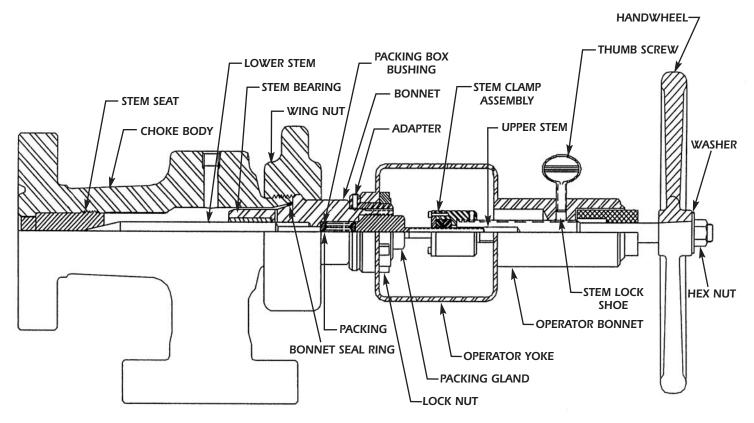
PARTS H-H2 ADJUSTABLE CHOKES MAX 1" ORIFICE

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ITEM NO.	DESCRIPTION		JM ORIFICE 10M CW/P
1	Hex Bolt	1542	1542
2	Washer	1011	1011
2 3	Handwheel	1522	1522
4	Set Screw	1007	1007
5	Indicator 1"	1207	1207
6	Wing Nut	1536	1536
7	Bonnet	1538	1538
8	Nylon Ball (Plug)	1004	1004
9	Thumb Screw	1003	1003
10	O-Ring	1205	1205
11	Junk Řing	1206	1206
12	Packing w/BU	1202	1202
13	Retainer Ring	1590	1590
14	Stem HS	1208	1208
	Stem HSS	1656	1656
	Stem SSTC	1209	1209
15	Seat HS	1415	1415
	Seat HSS	1655	1655
	Seat SSTC	1204	1204
16	Gasket	1541	1541
17	Body, Flanged	1539	1539
*18	Wrench	1465	1465
*	Wrench sold separate	ely – Not Pictur	ed

MISCELLANEOUS PARTS FOR H-H2 POSITIVE AND ADJUSTABLE CHOKES

Indicator 3 x 1 PVC	PN1550
 Ditto Aluminum 	PN1715
Ditto 3 x 1 1/2 PVC	PN1864
Ditto 3 x 2 Aluminum	PN2088
Ditto 2 x 3/4 PVC	PN1916
Adapter Bean/Seat 3 x 1 H2 Alloy	PN1525
 Ditto SS 	PN2089
Adapter 3 x 1 H2 F/FC-140 Alloy	PN1593
 Ditto SS 	PN1790
Stem H2 15M 1" SSTC	PN1543
Seat 3 x 1 SSTC Short FL	PN1899
Ditto 3 x 1 1/2	PN1863
Ditto 3 x 2 SSTC Short FL	PN1745
Ditto 3 x 2 SSTC 6" Long PL	PN1925
Ditto 3 x 2 SSTC 10" OAL FL	PN1624
Ditto 2 x 1 SSTC 12" OAL FL	PN1985



The Houston Oilfield Equipment, Inc. Steam Choke uses a non rotating stem with linear motion that won't grab the packing and pull it out of place. When packing needs adjustment simply tighten the choke packing gland as required. The gland is easily accessible as it is externally located. This means minimal time and simple maintenance.

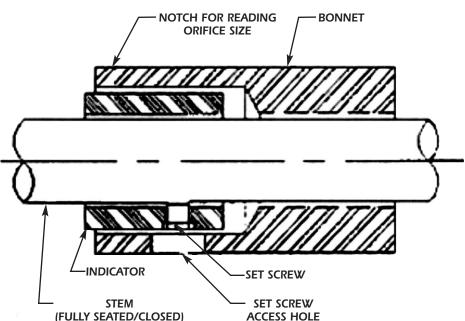
SPECIFICATIONS FEATURES AND BENEFITS 3000 LBS. CWP Uses FMC Type Standard JWA Body Max 1" Orifice Aluminum Indicator Alloy or SS Body External Packing Adjustment Flanged, Butt Weld, Socket Weld or **Threaded End Connections** Field Repairable Manual Type or Actuated Operation Metal to Metal Taper Seal Temperature Range -32°F to 850°F Parts Interchangability Angle Body with Vent Port Trim Stainless Steel No Special Tools Required

PROCEDURE:

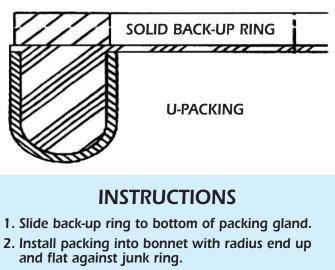
With choke in fully closed position align mark (64ths increments) on indicator with notch on bonnet. Tighten set screw. Indicator is now set in proper calibration.

NOTE:

Remember to open choke prior to shipment or final disposition.

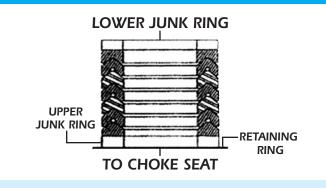


PACKING TYPE U W/BACK-UP RING PN: 1505 H2S/CO2 SERVICE



- 3. Place upper junk ring on top of packing.
- 4. Install retaining ring in groove.

PACKING CHEVRON TYPE TYPICAL FOR H2/FMC ADJUSTABLE CHOKES



- 1. Slide lower junk ring to bottom of packing gland.
- 2. Install packing rings into bonnet with flat adapter first. **NOTE:** V shape of packing rings must be positioned with open (lip end) toward pressure.
- 3. Place upper junk ring on top of packing and install retaining ring.

-TERMS AND CONDITIONS-

Standard terms are net 30 days, unless otherwise agreed by Houston Oilfield Equipment, Inc. in writing. Boxing, freight, cartage and like charges, where applicable, are net. All weights are approximate.

All sales are F.O.B. Factory, unless otherwise expressly stipulated. Our responsibility ceases upon delivery of goods and bill of lading or dock receipt, invoice and supplementary documents to the customer or his agent, or upon delivery of the shipment to the carrier.

All price quotations are F.O.B. Factory, are subject to change without notice, and are for immediate acceptance unless otherwise specified. Delivery dates promised will be kept to the best of our ability, but cannot be guaranteed, and Houston Oilfield Equipment, Inc., (hereafter referred to as HOE, Inc.), will assume no liability for damages arising out of failure to keep delivery date, irrespective of the delay. Purchase orders placed and accepted may be cancelled with HOE, Inc.'s consent and upon terms which will indemnify HOE, Inc. against loss. All invoices are due and payable at our offices, located in Houston, Harris County Texas.

---- PRODUCT WARRANTY----

We warrant products of our manufacture one year from date of shipment to the extent that HOE, Inc. will repair or replace any products of defective workmanship proven under normal use and service. No other warranty is expressed or implied. We specifically are not responsible for damages or injury, direct or indirect, or for damages or failures caused by improper installation, operation or misuse.

Goods or parts thereof, not manufactured by us are guaranteed only in accordance with the manufacturer's guarantee and only to the extent that we are able to enforce it.

All claims for in-transit shortages, damages or erroneous charges must be made within thirty (30) days from receipt of shipment and must be accompanied by the packing lists covering shipment.

We strive to pack and prepare all shipments so that they will not break, rust or deteriorate in transit, but do not guarantee against such damage.

Upon request, HOE, Inc. will provide engineering and/or technical information regarding its products and their uses and, if feasible, will provide personnel to assist purchasers in effecting field installations and/or field service. Any such information, service, advice or assistance when provided, whether with or without charge, shall be advisory only. It is expressly understood that HOE, Inc. assumes no liability for damage or loss arising out of, resulting from, or caused in whole or in part by such information, service, advice or assistance so provided.

We reserve the right to change or modify the design and/or construction of any HOE, Inc. product in due course of manufacturing procedure without notice, and without incurring any obligation to furnish or install such changes or modifications on products previously or subsequently sold. Any other representations, warranties or conditions, expressed or implied, relating to material, equipment or services provided by HOE, Inc. are excluded, unless specifically agreed in writing, by HOE, Inc.

All sales made by us, unless otherwise agreed to in writing by an executive officer of the Company, are made subject to each and all of the foregoing conditions and the placing of an order, or the acceptance by the customer of the above said conditions.

-UNUSED PRODUCT RETURN POLICY-

New, unused products of our current manufacture may be returned for credit, provided written request is received within eighteen (18) months after the purchase date. Special or discontinued and/or obsolete products are not returnable for credit. Restocking charges may apply and will be determined at time of request.

Requests for the return of material should show original purchase order number, invoice number, description of material and date of purchase. All requests should be mailed to: HOUSTON OILFIELD EQUIPMENT, INC., 11320 FM 529, BUILDING D, HOUSTON, TEXAS 77041.

Material returned for credit shall be shipped via prepaid freight to our specified destination.

The credit allowed on returned goods is a merchandise credit and applicable only against purchases of our products. Credit will be allowed under the above conditions at the original price, or at a subsequently adjusted price.

-COMPANY HISTORY-

ouston Oilfield Equipment, Inc. (HOE, Inc.) is recognized throughout the world as a manufacturer of quality choke products. Our company was formed in 1993 and is headquartered in Houston, Texas, which is considered to be a major hub within the oil and gas industry. Houston was a natural choice, as this location ideally serves both domestic and international markets. The president and founder of HOUSTON OILFIELD is Tom Bowers. Mr. Bowers has 30 years experience in the oil and gas industry, has attained a vast knowledge of chokes and related

products and possesses an impeccable reputation with customers, colleagues and competitors alike.

OE, Inc. markets its products through a network of distributors and sales representatives, both domestic and foreign. Our company takes pride in being able to respond to its customers in minimal time, whether the task be providing a quote, shipping a product or assisting in customer service. We have maintained excellent customer relationships by providing unsurpassed service. This everyday challenge is the basis of operation by which our company operates. HOE, Inc. specializes in chokes of the FMC and Cameron type H2 and Thornhill-Craver profile, which are fully interchangeable with those manufacturers of the same product style. These designs are time proven and have been employed in many different types of service. In addition to the choke assemblies, parts for the above mentioned and various other types of chokes are also available.

OE, Inc.'s line of chokes is ideally suited for a broad range of applications. These include well heads, production manifold, well testing, steam injection, choke and kill manifolds, indirect fired heaters and well clean up operations. Should your choke require the API 6A monogram, Houston Oilfield is a current license holder of API 6A certificate 6A-0487. We welcome the opportunity to address your choke needs. As our reputation has shown for the past 10 years, we will

make every effort to provide timely and professional service to your organization. Providing a quality product with outstanding customer service has and will continue to be, our benchmark in the oil and gas industry.



HOUSTON OILFIELD EQUIPMENT, INC.

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