# **Honeywell** I Connected Industrial



# **HON 512 Gas Pressure Control Unit**

Proven Technology. Superior Performance.



# **Applications**

- Device for transfer stations in gas transport networks, for power stations and industrial plants
- Suitable for outlet pressure regulation, inlet pressure regulation, and differential pressure regulation
- Can be used for natural gas in line with DVGW G 260, other gases on request

#### **Feature**

- High flow value thanks to straight pass-through
- Robust and simple construction
- Purely pneumatic function
- Significant relaxation ratio
- Optionally with noise-reducing output section
- Electric valve position sensor HON 970 (optional)
- "Fail to close" version, the "fail to open" version is available on request

Technical data											
Max. inlet pressure pumax	100 bar										
	Wd in bar	Accuracy class AC	Closing pressure group								
Control range Wd with HON 650 controller	0.3 to 0.5	10	30								
(for output pressure regulation),	> 0.5 to 1.0	10	20								
Accuracy classes and closing pressure groups	> 1.0 to 2.5	2.5	10								
	> 2.5 to 5.0	1	10								
	> 5.0 to 90*	1	5								
Closing pressure zone group	SZ 2.5										
Other usage options with controller HON 650-659	<ul> <li>• pu - and Δp control</li> <li>• E/P level for superimposed electronic control circuits</li> <li>• electric set value remote adjustment</li> <li>• pdmin and pdmax control stage</li> </ul>										
Pressure drop ∆p	from 0.5 bar (depending on the pressure drop pu - pd)										
Connection type	DIN flanges PN ANSI 600 RF, F	l 25, PN 40 and flanges conforming RTJ	to ANSI 150, ANSI 300,								
EX protection		s not have any intrinsic potential ign									

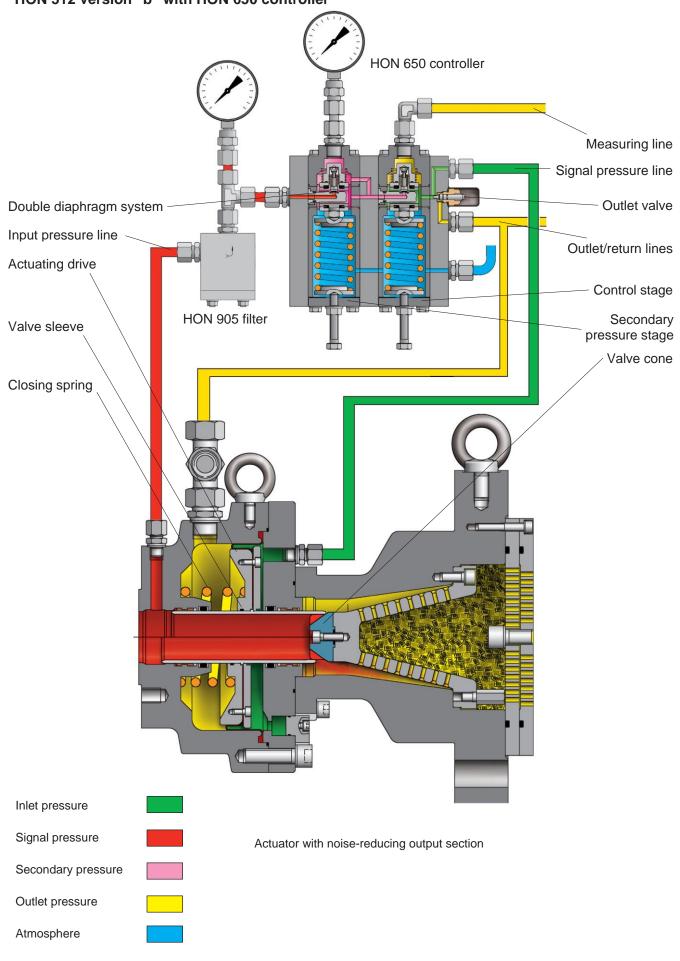
<sup>\*)</sup> with metal bellows measuring unit

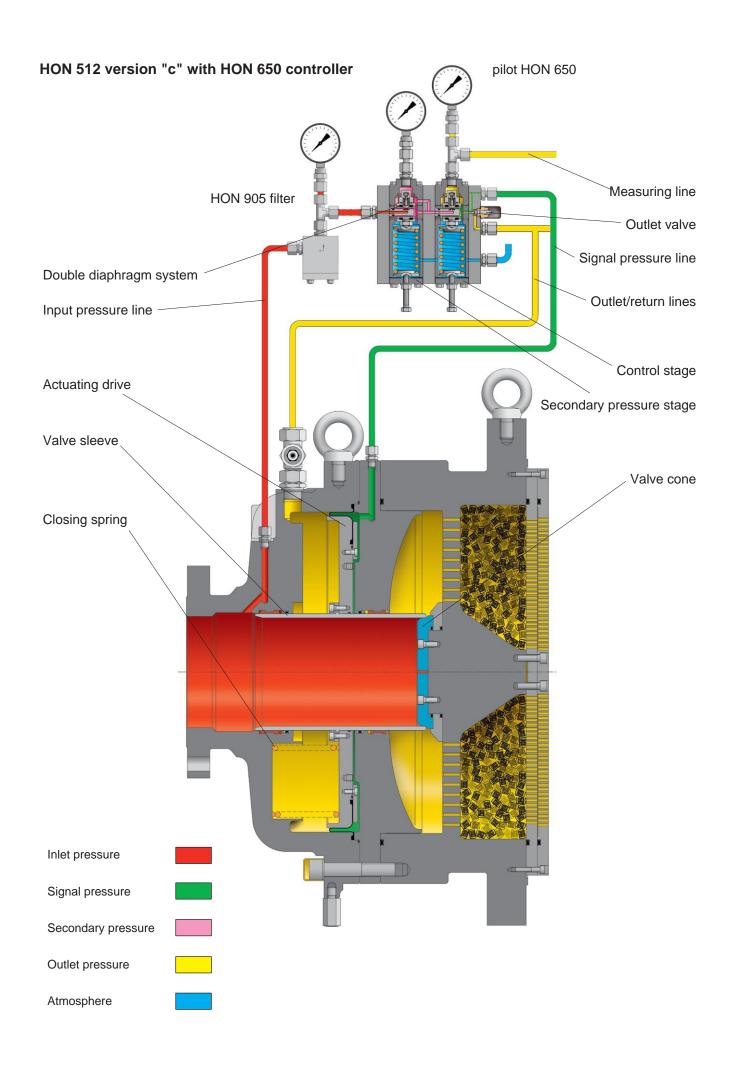
Technical data								
	Actuator - housing	Cast steel, steel						
	Actuator - interior parts	Steel, Al, Ms						
Material	Controller	Al alloy, steel						
	Diaphragm	NBR, FKM						
	Seals	NBR						
Temperature range class 2	-20 °C to +60 °C							
Nominal frequencies	Nominal input widths: DN 25, DN 50, DN 80, DN 100, DN 150, DN 200, DN 250 Nominal output widths: (See table below)							
Function and strength	conforming to EN 334							
CE mark conforming to PED	Honeywell C 6 0085							

parameters			
	Nominal	width DN	KG value
Device size KG valid for natural gas	Input	Output	[m3/h]
	25	25 100 150	550 490 490
	50	50 150 200	2200 1920 1980
	80	80 250	5610 5060
	100	100 300	8800 7810
(pn = 0.83 kg/m3)	150	150 300 400	19800 14630 16830
	200	200 400 500	37400 25850 30800
	250 with reduced valve Diameter	250 400 500	41800 25850 30800
	250	250 500 600	55000 39600 46750

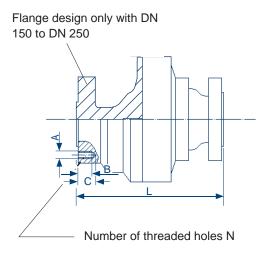
Connections										
Design status "b"										
Nominal input width	Measu	ing line	Outlet/retu	rn lines	Breathing line					
	Pipe	Thread	Pipe	Connection thread	Pipe	Connection thread				
25			12 x 1.5	M 16 x 1.5						
50	12 x 1.5	M14 x 1.5	12 x 1.5	M 16 x 1.5	12 x 1.5	M 14 x 1.5				
80	12 X 1.5	W114 X 1.5	16 x 2.0	M 22 x 1.5	12 X 1.3	W 14 X 1.5				
100			16 x 2.0	M 22 x 1.5						
Design status "c"										
150										
200	12 x 1.5	M 14 x 1.5	16 x 2.0	M 22 x 1.5	12 x 1.5	M 14 x 1.5				
250										

HON 512 version "b" with HON 650 controller





## **Dimensions**





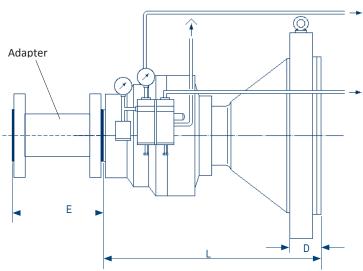


Figure 2: HON 512 - with actuator HON 650, noise-reducing Outlet section and adapter

Dime	nsions	S																										
Desig	n statu	ıs "b	"																									
Nominal	width DN	PN 1	16 and	ANS	SI 150	RF	19	N 25 a	25 and PN 40 ANSI 300 RF ANSI 300 RTJ									A۱	<b>ISI</b> 60	00 R		Minimum length						
Inlet	Outlet	L	Α	В	С	Ν	L	А	В	С	Ν	L	Α	В	С	Ν	L	Α	В	С	Ν	L	А	В	С	Ν	D	E**
25	25 100* 150*	200	M12	16	21	4	200 360 360	M1 2	16	21	4	197 359 359	M1 6	20	25	4	210 365 365	M1 6	20	25	4	210 365 365	M16	20	25	4	75 84	180 180
50	50 150* 200*	270	M16	20	25	4	270 422 422	M16	20	25	4	267 421 421	M16	20	25	8	283 429 429	M16	20	25	8	286 430 430	M16	20	25	8	84 92	220 220
80	80 250*	310	M16	20	25	8	310 512	M16	20	25	8	318 516	M20	26	32	8	333 523	M20	26	32	8	337 525	M20	26	32	8	100	260
100	100 300*	352	M16	26	32	8	370 548	M20	26	32	8	368 548	M20	26	32	8	384 555	M20	26	32	8	394 560	M24	31	38	8	103	300
Desig	n statu	ıs "c'	11																									
150	150 300* 400*	451	Fla	nge	versi	on	508 550 550	Flai	nge	versi	on	508 550 550	Flange version		508 550 Flange version 550		on	508 550 Flange ve 550		version		103 113	350 350					
200	200 400* 500*	602	Fla	nge v	versi	on	610 650 650	Flai	nge	versi	on	610 650 650	Fla	Flange version		610 650 650	650 Flange version			610 650 650	Flange version			on	113 137	380 380		
250₁	250 400* 500*	-		-			630 660 660	Flai	nge '	versi	on	630 660 660	Fla	Flange version			630 660 660	Fla	Flange version		on	630 660 660	Flange vers			version		420 420
250	250 500* 600*	675	Fla	nge	versi	on	752 752 752	Flai	nge	versi	on	752 752 752	Fla	Flange version			752 752 752	2 Flange version			752 752 752	Flange version				137 148	420 420	

<sup>\*)</sup> With noise-reducing outlet section (outlet flange only ANSI 600 RF)

<sup>\*\*)</sup> Fitting an adapter between the safety shut-off valve and the gas pressure control unit is recommended. During maintenance work, after removing this adapter, the gas pressure control unit can be removed from the line without the noise-reducing output part. The adapter is designed with a minimum length E so that there is sufficient space to remove the connecting bolts.

<sup>1)</sup> with reduced valve seat diameter

Device designation	ation			HON 512	- 5	0 / 2	200	- 50	-	650	) - S	60
				Туре	DN input	-	DN output	Valve seat		Controller type	Special version	
Nominal width/valve												
	reducing output section width DN											
Input	Output	Valve seat	Design status									
25	25	25	b									
50	50	50	b									
80	80	80	b									
100	100	100	b									
150	150	150	С									
200	200	200	С									
250	250	200	С									
250	250	250	С									
Actuator with noise-re Nominal												
Input	Output	Valve seat	Design status									
25	100	25	b									
25	150	25	b									
50	150	50	b									
50	200	50	b									
80	250	80	b									
100	300	100	b									
150	300	150	С									
150	400	150	С									
200	400	200	С									
200	500	200	С									
250	400	200	С									
250	500	200	С									
250	500	250	С									
250	600	250	С									
controller type			e.g., HON 650									
custom design												
			So									_

#### **Further information**

For further information on solutions for the gas industry from Honeywell, please contact your local representative or visit our website www.honeywellprocess.com

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