484

Pressure reducing valves made of stainless steel with female threaded connections

→ Series 484



■ SUITABLE FOR

Liquids	neutral and non-neutral	
Air, gases and vapours	neutral and non-neutral	

■ EXAMPLES OF USE

For the protection of:

- commercial and industrial plants against too high supply pressure.

Use of pressure reducing valves, when in a piping system inspite of varying pressures on the inlet side a specific pressure on the outlet side must be kept.

- · Compressed air supply plants
- Pneumatic control units
- Pressure booster plants air-side
- · Shipbuilding industry and offshore plants
- Industrial gas plant construction
- · PET blow moulding machines
- Blasting plants

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■ MATERIAL





■ SPECIFICATION





1/4" - 2"



- 40°C to + 120°C depending on version



up to 60 bar Outlet pressure: 0,5 to 50 bar depending on version

■ APPROVALS

European Pressure Equipment Directive

Requirements

PED2014/68/EU

Classification society

Lloyd's Register EMEA LR EMEA

■ MATERIALS

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Component	Material	DIN EN	ASME	
Inlet body	Stainless steel	1.4408	CF8M	
Outlet body	Stainless steel	1.4408	CF8M	
Internal parts	Stainless steel	1.4404	316 L	
Spring	Stainless steel	1.4568	631	



### with diaphragm With diaphragm	■ VALVE VERSION									
Adjustment by means of non-rising spindle. Balanced single seat valve, pressure gauge connection G14° both sides of both sides o	m	with diaphragm		Adjustmer gauge con	Adjustment by means of non-rising spindle. Balanced single seat valve, pressure gauge connection G1/4" on both sides of body.					
gaseous with secondary venting GFO gaseous and liquid without secondary venting for water and non-sticking liquids, compressed air and gases ### OUTLET PRESSURE RANGES SM Standard version with diaphragm Inlet pressure: up to 60 bar SK Standard version with piston High-pressure version with piston Inlet pressure: up to 60 bar Outlet pressure: 10 to 60 bar Fixed setting at a required outlet pressure against surcharge ### AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES Nominal diameter DN 8 10 15 20 25 40 50 material manual bids and the standard bids and the stan	k	with piston		Adjustmer gauge con	nt by means of non- nection G1/4" on bo	rising spindle. Bala oth sides of body.		ve, pressure		
Non-neutral, poisonous gases only in combination with ducted exhaust. GFO gaseous and liquid without secondary venting for water and non-sticking liquids, compressed air and gases ■ OUTLET PRESSURE RANGES SM Standard version with diaphragm Inlet pressure: up to 60 bar Outlet pressure: 0,5 to 15 bar SK Standard version with piston Inlet pressure: up to 60 bar Outlet pressure: 5 to 30 bar HK High-pressure version with piston Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar SK Standard version with piston Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar SK Standard version with piston Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar SK Standard version with piston Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar SK Standard Version Standard Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Standard Inlet pressure: 10 to 50 bar Standard Version Standard Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Standard Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Outlet pressure: 10 to 50 bar Standard Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Standard Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Outlet pressure: 10 to 50 bar Standard Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Standard Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Standard Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Standard Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Standard Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Standard Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Standard Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Standard Inlet pressure: 10 to 60 bar Standard Inlet pressure: 10 to 60 bar Standard Inlet pressure: 10 to 60 bar Standard Inlet pressure: 10	■ MEDIUM									
Non-neutral, poisonous gases only in combination with ducted exhaust. GFO gaseous and liquid without secondary venting for water and non-sticking liquids, compressed air and gases **OUTLET PRESSURE RANGES** SM Standard version with diaphragm Inlet pressure: up to 60 bar Outlet pressure: 0.5 to 15 bar SK Standard version with piston Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar				Compress	ed air and gases					
## OUTLET PRESSURE RANGES SM Standard version with diaphragm Inlet pressure: up to 60 bar Outlet pressure: 0,5 to 15 bar SK Standard version with piston Inlet pressure: up to 60 bar Outlet pressure: 5 to 30 bar Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Fixed setting at a required outlet pressure against surcharge ### AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES ### AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES ### Nominal diameter DN 8 10 15 20 25 40 50 inlet female 1/4" (8) 3/8" (10) 1/2" (15) 3/4" (20) 1" (25) 11/2" (40) 2" (50) inlet female 20 2" (14) 3/8" (10) 1/2" (15) 3/4" (20) 1" (25) 11/2" (40) 2" (50) inlet female 20 2" (14) 3/8" (10) 1/2" (15) 3/4" (20) 1" (25) 11/2" (40) 2" (50) 2" (50) inlet female 20 2" (25) 2" (GS	gaseous with sec	ondary venting	Non-neutr	al, poisonous gase	s only in combinati	on with ducted exha	ust.		
SM Standard version with diaphragm Inlet pressure: up to 60 bar Outlet pressure: 0,5 to 15 bar SK Standard version with piston Inlet pressure: up to 60 bar Outlet pressure: 5 to 30 bar Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Fixed setting at a required outlet pressure against surcharge AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES Nominal diameter DN 8 10 15 20 25 40 50 1. Inlet female connection 1/4" (8) 3/8" (10) 1/2" (15) 3/4" (20) 1" (25) 1 1/2" (40) 2" (50) Outlet female connection 1/4" (8) 3/8" (10) 1/2" (15) 3/4" (20) 1" (25) 1 1/2" (40) 2" (50) TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS If Standard Female thread BSP-P / Female thread BSP-P DIN EN ISO 228-1 /	GFO			for water a	and non-sticking liq	uids, compressed a	air and gases			
SK Standard version with piston Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Outlet pressure: 10 to 50 bar Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Outlet pressure: 10 to 60 bar Outlet pressure: 10 to 50 bar Outlet pressure: 10 to 60 bar Outlet	■ OUTLET PRESSU	RE RANGES								
HK High-pressure version with piston Inlet pressure: up to 60 bar Outlet pressure: 10 to 50 bar Fixed setting at a required outlet pressure against surcharge ■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES Nominal diameter DN 8 10 15 20 25 40 50 10 10 10 10 10 10 10 10 10 10 10 10 10	SM	Standard version	with diaphragm	Inlet pressu	ure: up to 60 bar	Out	let pressure: 0,5 to 15	bar		
■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES Nominal diameter DN 8 10 15 20 25 40 50 Inlet female 1/4" (8) 3/8" (10) 1/2" (15) 3/4" (20) 1" (25) 1 1/2" (40) 2" (50) Outlet female connection 1/4" (8) 3/8" (10) 1/2" (15) 3/4" (20) 1" (25) 1 1/2" (40) 2" (50) ■ TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS If Standard Female thread BSP-P / Female thread BSP-P DIN EN ISO 228-1 / DIN EN ISO 228-1 ■ SEALS FKM Fluorocarbon Elastomere moulded diaphragm and seals -10"C to +120"C ■ OPTIONS AGAINST SURCHARGE Pressure gauges 40, 42, 44, 45, 46 and 47 Chapter Accessories GA: ducted exhaust air in case of medium GS (specific ducting of secondary venting) GA - SV Cutting ring threaded connection according to EN ISO 8434-1 for pipe diameter 6m CK CK-Quick connector for pipe diameter 6mm up to 10 bar. Wall mount Order code: 48.4 Wall mount -DN Service Pack (seals and disc) 48 pipton version k; FKM or EPDM Service Pack Service Pack (seals and disc) 48 pipton version k; FKM or EPDM Service Pack Service Pack (seals and disc) Order code: 48.4 N-DN < FKM or EPDM> Service Pack Service Pack (seals and disc) Order code: 48.4 N-DN < FKM or EPDM> Service Pack Service Pack (seals and disc) Order code: 48.4 N-DN < FKM or EPDM> Service Pack										
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TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS #If Standard Female thread BSP-P / Female thread BSP-P DIN EN ISO 228-1 / DIN EN ISO 228-1 #ISEALS	Inlet female connection									
Female thread BSP-P / Female thread BSP-P DIN EN ISO 228-1 / DIN EN IS		1/4" (8)	3/8" (10)	1/2" (15)	3/4" (20)	1" (25)	1 1/2" (40)	2" (50)		
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FKM Fluorocarbon Elastomere moulded diaphragm and seals -10°C to +120°C EPDM Ethylene propylene diene Elastomere moulded diaphragm and seals -40°C to +120°C OPTIONS AGAINST SURCHARGE Pressure gauges 40, 42, 44, 45, 46 and 47 Chapter Accessories GA: ducted exhaust air in case of medium GS (specific ducting of secondary venting) GA - SV Cutting ring threaded connection according to EN ISO 8434-1 for pipe diameter 6m GA - CK CK-Quick connector for pipe diameter 6mm up to 10 bar. Wall mount Order code: 484 Wall mount -DN Service parts: Service Pack (seals and disc) Order code: 484k-DN <fkm epdm="" or=""> Service Pack Service Pack (seals and disc) Order code: 484mGS-DN SERVM or EPDM> Service Pack</fkm>	f/f	Standard		Female thr	ead BSP-P / Female	e thread BSP-P	DIN EN ISO 228-1 / D	IN EN ISO 228-1		
EPDM Ethylene propylene diene Elastomere moulded diaphragm and seals −40°C to +120°C OPTIONS AGAINST SURCHARGE Pressure gauges 40, 42, 44, 45, 46 and 47 Chapter Accessories GA: ducted exhaust air in case of medium GS (specific ducting of secondary venting) GA - SV Cutting ring threaded connection according to EN ISO 8434-1 for pipe diameter 6m GA - CK CK-Quick connector for pipe diameter 6mm up to 10 bar. Wall mount Order code: 484 Wall mount -DN Service parts: Service Pack (seals and disc) 484 piston version k; FKM or EPDM Service Pack (seals and disc) Order code: 484M-DN <fkm epdm="" or=""> Service Pack</fkm>	■ SEALS									
Pressure gauges 40, 42, 44, 45, 46 and 47 Chapter Accessories GA: ducted exhaust air in case of medium GS (specific ducting of secondary venting) GA - SV Cutting ring threaded connection according to EN ISO 8434-1 for pipe diameter 6m GA - CK CK-Quick connector for pipe diameter 6mm up to 10 bar. Wall mount Order code: 484 Wall mount -DN Service Parks: Service Pack (seals and disc) 484 piston version k; FKM or EPDM Service Pack (seals and disc) Order code: 484mGS-DN SEKM or EPDM> Service Pack	FKM	Fluorocarbon		Elastomere	Elastomere moulded diaphragm and seals -10°C to +120°C					
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GA: ducted exhaust air in case of medium GS (specific ducting of secondary venting) GA - SV Cutting ring threaded connection according to EN ISO 8434-1 for pipe diameter 6m GK-Quick connector for pipe diameter 6mm up to 10 bar. Wall mount Order code: 484 Wall mount -DN Service parts: Service Pack (seals and disc) 484 piston version k; FKM or EPDM Service Pack (seals and disc) Order code: 484k-DN < FKM or EPDM> Service Pack Order code: 484mGS-DN < FKM or EPDM> Service Pack	OPTIONS AGAINS	T SURCHARGE								
GA - SV GA - CK CK-Quick connector for pipe diameter 6m up to 10 bar. Wall mount Order code: 484 Wall mount -DN Service parts: Service Pack (seals and disc) 484 piston version k; FKM or EPDM Service Pack (seals and disc) Order code: 484mGS-DN SERVICE Pack Order code: 484mGS-DN SERVICE Pack	Pressure gauges 40, 42	2, 44, 45, 46 and 47		Chapter A	ccessories					
GA - CK CK-Quick connector for pipe diameter 6mm up to 10 bar. Wall mount Order code: 484 Wall mount -DN Service parts: Service Pack (seals and disc) 484 piston version k; FKM or EPDM Service Pack (seals and disc) Order code: 484k-DN < FKM or EPDM> Service Pack Order code: 484mGS-DN < FKM or EPDM> Service Pack		r in case of medium	GS (specific ductin	•	•					
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Service parts: Service Pack (seals and disc) 484 piston version k; FKM or EPDM Order code: 484k-DN < FKM or EPDM > Service Pack Order code: 484mGS-DN < FKM or EPDM > Service Pack							, io bai.			
484 piston version k; FKM or EPDM Order code: 484k-DN < FKM or EPDM > Service Pack Service Pack (seals and disc) Order code: 484mGS-DN = < FKM or EPDM > Service Pack				3.40. 3040						
Urder code: 484mG-S-DN SEKWLOF EPDW/S Service Pack				Order code	Order code: 484k-DN <fkm epdm="" or=""> Service Pack</fkm>					
	,	,	M	Order code	e: 484mGS-DN <f< td=""><td>FKM or EPDM> Ser</td><td>vice Pack</td><td></td></f<>	FKM or EPDM> Ser	vice Pack			

Order code: 484mGFO-DN... < FKM or EPDM > Service Pack



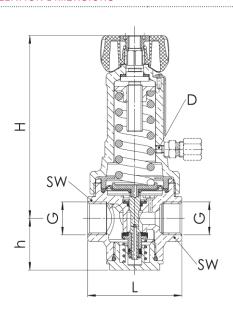
Service Pack (seals and disc) 484 diaphragm version mGFO; FKM or EPDM

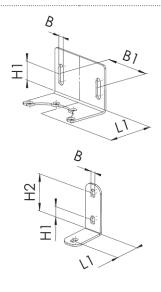
■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 484: Connection, installation dimensions, ranges of adjustment											
Nominal diameter	DN	8	10	15	20	25	40	50			
Connection DIN EN ISO 228	G	1/4" (8)	3/8" (10)	1/2" (15)	3/4" (20)	1" (25)	1 1/2" (40)	2" (50)			
Inlet pressure up to	bar	60	60	60	60	60	60	60			
Outlet pressure: SM	bar	0,5-15	0,5-15	0,5-15	0,5-15	0,5-15	0,5-15	0,5-15			
SK	bar	5-30	5-30	5-30	5-30	5-30	5-30	5-30			
HK	bar	10-50	10-50	10-50	10-50	10-50	10-50	10-50			
Installation dimensions	L	68	68	60	78	102	136	136			
in mm	Н	120	120	120	180	215	260	270			
	h	33	33	33	40	56	63	70			
	SW	26	26	26	32	44	58	70			
Ducted exhaust connection	D	M5	M5	M5	M5	1/8"	1/8"	1/8"			
Dimensions of optional	L1	38	38	38	51	61	85	85			
wall mount	H1 / H2	18 / 62	18 / 62	18 / 62	18/58	22/80	15	15			
	B / B1	5,5	5,5	5,5	6,5	8,5	10,5 / 90	10,5 / 90			
Weight	kg	1,1	1,1	1,1	2,5	4,5	8,1	8,8			
Coefficient of flow K _{VS}	m³/h	1,6	1,6	1,6	3,4	5,5	12,7	12,7			

The K_{VS} value was determined according to DIN EN 60534-2-3. Instructions on how to determine size and capacity are to be found under section 2.

■ MAIN DIMENSIONS, INSTALLATION DIMENSIONS





■ INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series	Series Valve Medium Outlet Nominal version pressure diameter DN		dium Outlet	et Nominal	Connection type		Connection size		Seal	Option		Quantity
		DN	Inlet	Outlet	Inlet	Outlet						
484	m	GS	SM	20	f	f	20	20	FKM	Pressure Gauge 40	GA-SV	5
484	k	GFO	SK	40	f	f	40	40	EPDM			1
484					f	f						
484					f	f						

In this table you can configure a valve according to your individual requirements (similar to the *example* shown, which should be deleted before you enter your own data). Please complete the table by hand using the abbreviations in this datasheet and then fax it to: +61 03 9776 9606 (Pressure Systems) Please do not forget to add your personal data so that our sales team can contact you.

Name			
First Name			
Company			
Telephone			
E-Mail			

